

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG  ELECTRIC LOGS  WATER SANDS  LOCATION INSPECTED  SUB. REPORT/abd.

Confidential Status Expired 1-23-95  
Commenced INT eff. 10-19-94

DATE FILED 8-23-93

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-44426 INDIAN

DRILLING APPROVED: 8-25-93

SPUDED IN: 10-29-93

COMPLETED: 12-23-93 POW PUT TO PRODUCING: 12-23-93

INITIAL PRODUCTION: 50 BOPD; 50 BWPD  
GRAVITY A.P.I. 43

GOR:  
PRODUCING ZONES: 4903-5106 (GRV)

TOTAL DEPTH: 5700'

WELL ELEVATION: 5398.5 GR

DATE ABANDONED:

FIELD: MONUMENT BUTTE

UNIT: JONAH

COUNTY: DUCHESNE

WELL NO. BALCRON MONUMENT FEDERAL #31-7J

API NO. 43-013-31405

LOCATION 831' FNL FT. FROM (N) (S) LINE. 1782' FEL FT. FROM (E) (W) LINE. NW NE 1/4 - 1/4 SEC. 7

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
9S	17E	7	EQUITABLE RESOURCES				



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

**BALCRON OIL DIVISION**

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

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

August 20, 1993

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

Gentlemen:

Enclosed are Applications for Permit to drill the following wells:

Balcron Monument Federal #42-1J  
SE NE Section 1, T9S, R16E  
Duchesne County, Utah  
FLS #U-40652

Balcron Monument Federal #31-7J  
NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
FLS #U-44426

Balcron Monument Federal #21-12J  
NE NW Section 12, T9S, R16E  
Duchesne County, Utah  
FLS #U-096550

The archeological and paleontological reports will be submitted as soon as they are received.

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

Sincerely,

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

RECEIVED

AUG 23 1993

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			5. Lease Designation and Serial No. Federal #U-44426	
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			6. If Indian, Allottee or Tribe Name n/a	
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>			7. Unit Agreement Name Jonah Unit	
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division			8. Farm or Lease Name Balcron Monument Federal	
3. Address of Operator P.O. Box 21017; Billings, MT 59104			9. Well No. #31-7 J	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 831.18' FNL, 1782.38' FEL At proposed prod. zone			10. Field and Pool, or Wildcat Monument Butte/Green River	
14. Distance in miles and direction from nearest town or post office* Approximately 15 miles SW of Myton, Utah.			11. 00, Sec., T., R., M., or Blk. and Survey or Area NW NE Sec. 7, T9S, R17E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drip 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 <del>XXXXXX</del> 5,700'	20. Rotary or cable tools Rotary	
21. Elevations (Show whether DF, RT, GR, etc.) 5,298.5' GL			22. Approx. date work will start* Upon APD approval	
23. PROPOSED CASING AND CEMENTING PROGRAM				
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

Operator plans to drill well in accordance with attached Federal Application for Permit to Drill.

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

Signed: Bobbie Schuman Title: Coordinator of Environmental and Regulatory Affairs Date: 8/20/93

(This space for Federal or State office use)

API NO. 43-013-31405 Approval Date \_\_\_\_\_

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 8/25/93  
BY: [Signature]  
WELL SPACING: R649-2-3  
Jonah Unit

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

\*See Instructions On Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
U-44426

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

7. UNIT AGREEMENT NAME  
Jonah Unit

8. FARM OR LEASE NAME  
Balcron Monument Federal

9. WELL NO.  
31-7J

10. FIELD AND POOL, OR WILDCAT  
Monument Butte/Grn. River

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
NW NE Sec. 7, T9S, R17E

12. COUNTY OR PARISH  
Duchesne

13. STATE  
UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

3. ADDRESS OF OPERATOR  
P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
NW NE Section 7, T9S, R17E 831.18' FNL, 1782.38' FEL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 15 miles SW of Myton, Utah

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH  
5,700'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5,298.5' GL

22. APPROX. DATE WORK WILL START\*  
Upon APD Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See drilling	program/casing	design		

EXHIBITS ATTACHED

- "A" PROPOSED DRILLING PROGRAM
- "B" PROPOSED SURFACE USE PROGRAM
- "C" GEOLOGIC PROGNOSIS
- "D" DRILLING PROGRAM/CASING DESIGN
- "E" EVIDENCE OF BOND COVERAGE
- "F" SURVEY PLAT
- "G" RIG LAYOUT
- "H" BOPE DIAGRAM
- "I" EXISTING ROADS (Map A)
- "J" PLANNED ACCESS (Map B)
- "K" EXISTING WELLS (Map C)
- "L" CUT & FILL DIAGRAM

RECEIVED

AUG 23 1993

DIVISION OF OIL, GAS & MINING

Please note the change in well # from the NOS. This should be the #31-7J.

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 Coordinator of Environmental and Regulatory Affairs DATE 8/20/93  
Bobbie Schuman  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

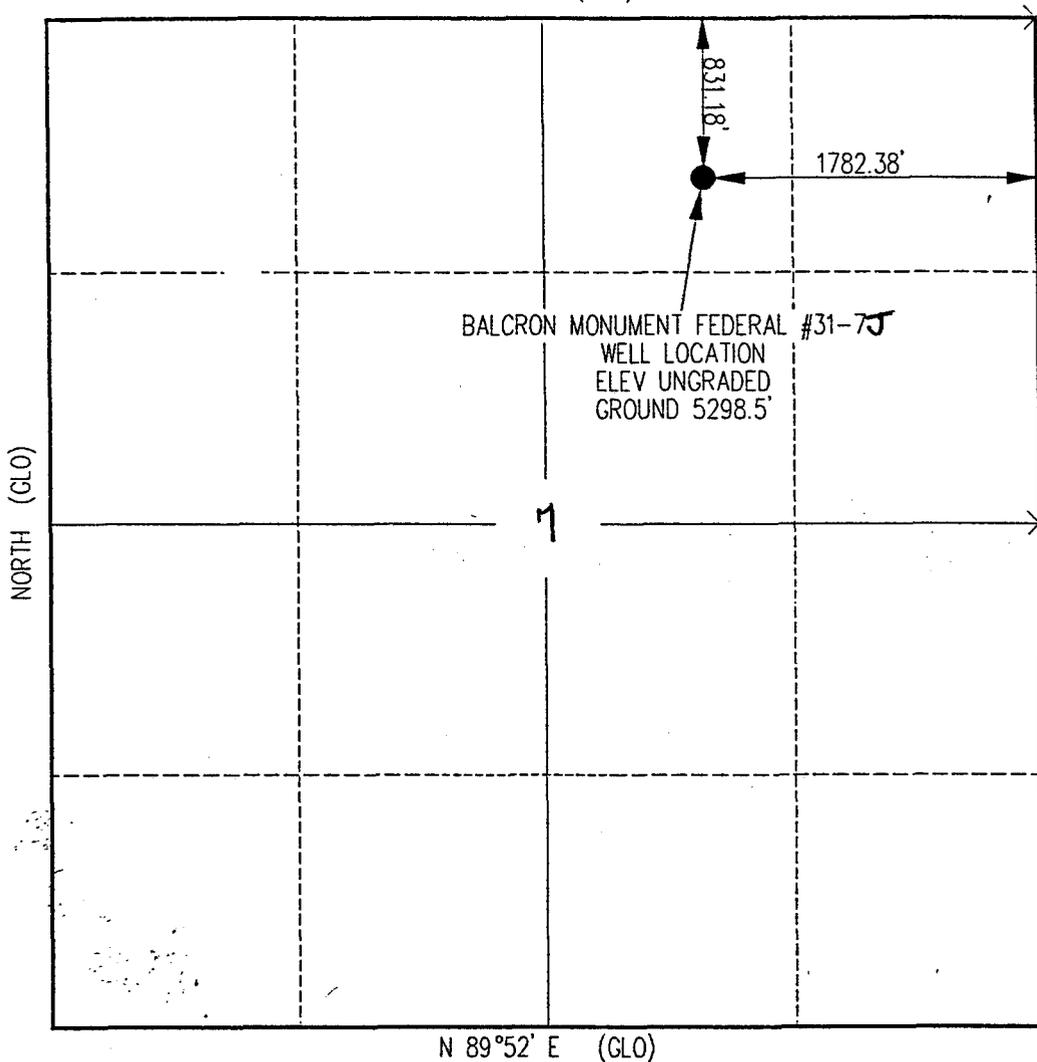
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

EXHIBIT "F"

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

N 89°55' E (GLO)



N 89°52' E (GLO)

X = SECTION CORNERS LOCATED  
 BASIS OF BEARINGS; G.L.O. PLAT 1911  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL  
 #31-7, LOCATED AS SHOWN IN THE NW 1/4  
 NE 1/4 OF SECTION 7, T9S, R17E, S.L.B. & M,  
 DUCHESNE COUNTY UTAH.



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



WEATHER: CLEAR & HOT  
 DATE: 7/15/93  
 SCALE: 1" = 1000'  
 SURVEYED BY: SS ZD  
 FILE: MF 31-7



EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #31-7J  
NW NE Section 7-T9S-R17E  
Duchesne County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used; however, diagram submitted is for a 3M system. 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 two attachments:

Drilling Program/Casing Design (EXHIBIT "D")  
Geologic Prognosis (EXHIBIT "C")

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 as possible after the BLM approves this APD.
- 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 MONUMENT FEDERAL #31-7J  
NW NE Section 7, T9S, R17E  
DUCHESNE 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. 150' & 175' South
- B. The Monument Federal #31-7 is located approximately 15 miles Southwesterly of Myton Utah, in the NW1/4 NE1/4 Section 7, T9S, R17E, SLB&M, Duchesne County, Utah. To reach the 31-7, 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 11.4 miles to an intersection with the Pariette Bench road, turn right and continue 1.0 miles to road intersection. turn right and proceed 1.4 mile to location which is on the existing road.
- 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" (shown in GREEN)**

No new road construction will be required for access to the proposed well location.

- A. Width - n/a

- B. Construction standard - n/a
- C. Maximum grade - n/a
- D. Turnouts - n/a
- E. Drainage design - n/a
- F. Culverts, cuts and fills - n/a
- G. Surface materials - n/a
- H. Gates, n/a
- I. Road maintenance - n/a
- J. 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 will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.

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

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

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

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

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

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

For Pipeline:

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

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

**5. Location and Type of Water Supply**

- A. Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from a spring owned by Joe Shields, or a well owned by Owen Anderson. To be determined prior to operations commencing.
- 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 ninety (90) 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. If at the time of construction it is determined to be necessary, the reserve pit will be lined with a plastic nylon 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 NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

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

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

constructed so as not to leak, break, or allow the discharge of liquids therefrom.

**8. Ancillary Facilities:**

None anticipated.

**9. Wellsite Layout:**

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. Corner #8 will be rounded to avoid the natural drainage. A silt catchment dam and basin will be constructed according to BLM specifications approximately 90 feet SE of corner #1 where flagged.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three (3) trailers on location during drilling operation.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid. The flare pit if required will be located downwind of the prevailing wind between corner #5 and corner #6. Access will be from the East near corner #8.

The reserve pit will not be lined unless requested by the B.L.M. or unless it is deemed necessary by Equitable Resources. If a plastic reinforced liner is used, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

- E. 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.

- F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling 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. If a plastic or nylon reinforced pit liner is used, it 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 dished 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, then roller packing 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 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

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

Pure Live Seed (PLS)	Seed Mix
lbs./acre	
1	Forage Kochia (Kochia prostrata)
5	Ephriam Crested Wheatgrass (Agropyron cristatum Ephriam)
4	Russian Wildrye (Elymus junceus)

Fourwing Saltbush  
(Atriplex canescens)

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 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:

- (a) 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 12 miles South 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.

**13. Lessee's or Operator's Representative:**

Balcron Oil  
a division of Equitable Resources Energy Company  
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, Home (303)824-3323

**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.

8/20/93

Date

Bobbie Schuman

**Bobbie Schuman  
Coordinator of Environmental  
and Regulatory Affairs  
BALCRON OIL division of  
Equitable Resources Energy  
Company**



Equitable Resources Energy Company  
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Balcron Federal 31-7J      PROSPECT/FIELD: Jonah Unit  
LOCATION: Nw NE Sec.7 Twn.9S Rge.17E  
COUNTY: Duchesne                      STATE: Utah

TOTAL DEPTH: 5700

HOLE SIZE	INTERVAL
12 1/4"	0 to 260'
7 7/8"	260 to 5700'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	5700	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.  
(Top of cement will be 2000')

PRELIMINARY DRILLING FLUID PROGRAM

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and air mist	0	260	N.A.	N.A.	N.A.
Air/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

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

COMMENTS

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





United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
MONTANA STATE OFFICE  
222 NORTH 32ND STREET  
P.O. BOX 36800  
BILLINGS, MONTANA 59107-6800

IN REPLY TO:

MTM 12619-A et al  
BLM BOND NO. MT0576  
(922.31)

April 25, 1989

NOTICE

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

OIL AND GAS

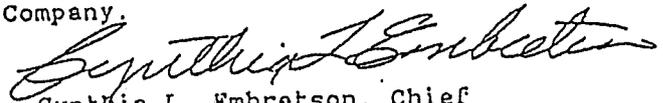
CORPORATE MERGER RECOGNIZED  
RIDER TO NATIONWIDE BOND ACCEPTED

Acceptable evidence has been filed in this office concerning the merger of Balcron Oil Company into Equitable Resources Energy Company, the surviving corporation. Information provided shows that Balcron Oil Company merged into Equitable Resources Energy Company, changing the former entity's name to Balcron Oil, a Division of Equitable Resources Energy Company. Please note that Divisions cannot hold leases, therefore, after consultation with Balcron Oil, this office is recognizing only the merger action.

A rider was filed on April 20, 1989, to be made a part of \$150,000 Nationwide Oil and Gas Bond No. 5547188 (BLM Bond No. MT0576) with Balcron Oil Company as principal and Safeco Insurance Company of America as surety. By means of this rider, the surety consents to changing the name on the bond from Balcron Oil Company to Equitable Resources Energy Company. The rider is accepted effective April 20, 1989.

For our purposes, the merger is recognized effective April 20, 1989.

The oil and gas lease files and communitization agreement files identified on the enclosed Exhibit A have been noted as to the merger. Other lease interests will be transferred by assignments from Ballard & Cronoble to Equitable Resources Energy Company.

  
Cynthia L. Embretson, Chief  
Fluids Adjudication Section

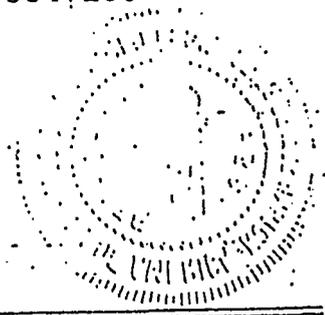
1 Enclosure  
1-Exhibit A

cc: (w/encl.)  
AFS, Denver (1)  
All DMs (1 ea.)  
RMO Section (1)  
Regional Forester, Lakewood (2)  
Regional Forester, Missoula (2)  
Bureau of Reclamation (1)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE  
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)  
Act of August 7, 1947 (30 U.S.C. Sec. 351)  
Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)  
Other Oil and Gas Leasing Authorities as Applicable



KNOW ALL MEN BY THESE PRESENTS, That we  
BALCRON OIL COMPANY  
of 1601 Lewis Avenue, Billings, MT 59104

as principal, and  
SAFECO INSURANCE COMPANY OF AMERICA  
of 111 Presidential Blvd., Suite 231, Bala Cynwyd, PA 19004

as surety, are held and firmly bound unto the United States of America in the sum of ONE HUNDRED FIFTY THOUSAND AND 00/100-----dollars (\$ 150,000.00 ), in lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators, and successors, jointly and severally.

- The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Mineral Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

ALL STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond: (1) as lessee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement; and

tract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include:

WHEREAS the principal is authorized to drill for, mine, ex-



URETY RIDER

SAFECO INSURANCE COMPANY OF AMERICA  
GENERAL INSURANCE COMPANY OF AMERICA  
FIRST NATIONAL INSURANCE COMPANY  
OF AMERICA  
HOME OFFICE: SAFECO PLAZA  
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (BLM Bond No. MT0576)

dated effective 9/8/88  
(MONTH, DAY, YEAR)

executed by BALCRON OIL COMPANY, as Principal,  
(PRINCIPAL)

and by SAFECO INSURANCE COMPANY OF AMERICA, as Surety,  
(SURETY)

in favor of UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND  
(OBLIGEE) MANAGEMENT

In consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider is effective 1/1/89  
(MONTH, DAY, YEAR)

Signed and Sealed 4/10/89  
(MONTH, DAY, YEAR)

EQUITABLE RESOURCES ENERGY COMPANY  
PRINCIPAL

By: \_\_\_\_\_ TITLE

SAFECO INSURANCE COMPANY OF AMERICA  
SURETY

By: *R. George Voinchet*  
R. George Voinchet ATTORNEY-IN-FACT



ATTORNEY

OFFICE: SAFECO PLAZA  
SEATTLE, WASHINGTON 98185

EXHIBIT "E" Page 4 of 4  
3798

No. \_\_\_\_\_

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA, each, a Washington corporation, does each hereby appoint

-----THOMAS L. VE HAR; R. GEORGE VOINCHET, Pittsburgh, Pennsylvania-----

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA have each executed and attested these presents

this 4th day of September, 1987.

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,  
(i) The provisions of Article V, Section 13 of the By-Laws, and  
(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and  
(iii) Certifying that said power-of-attorney appointment is in full force and effect,  
the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

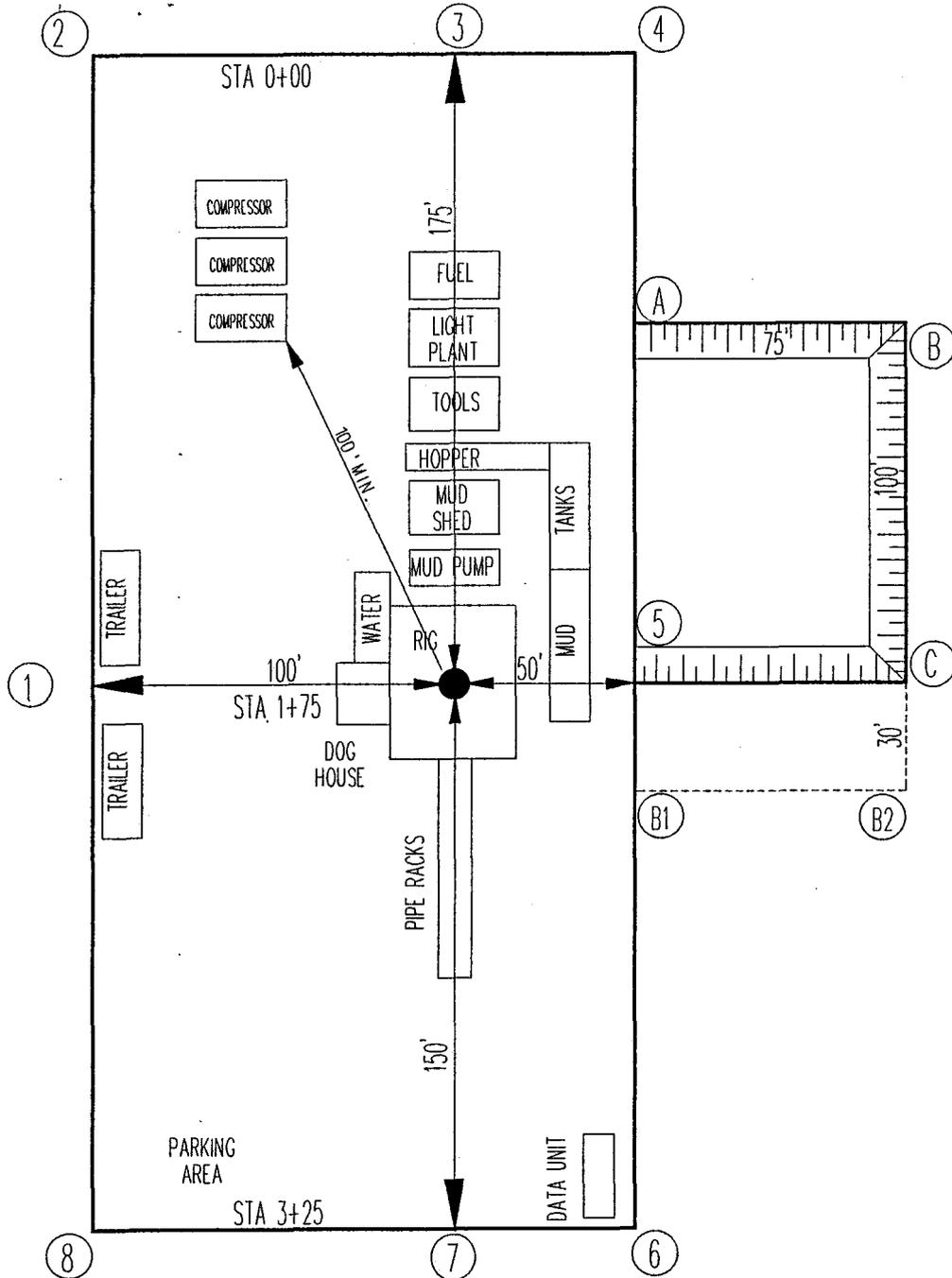
I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 10th day of April, 1989.

# EQUITABLE RESOURCES ENERGY CO.

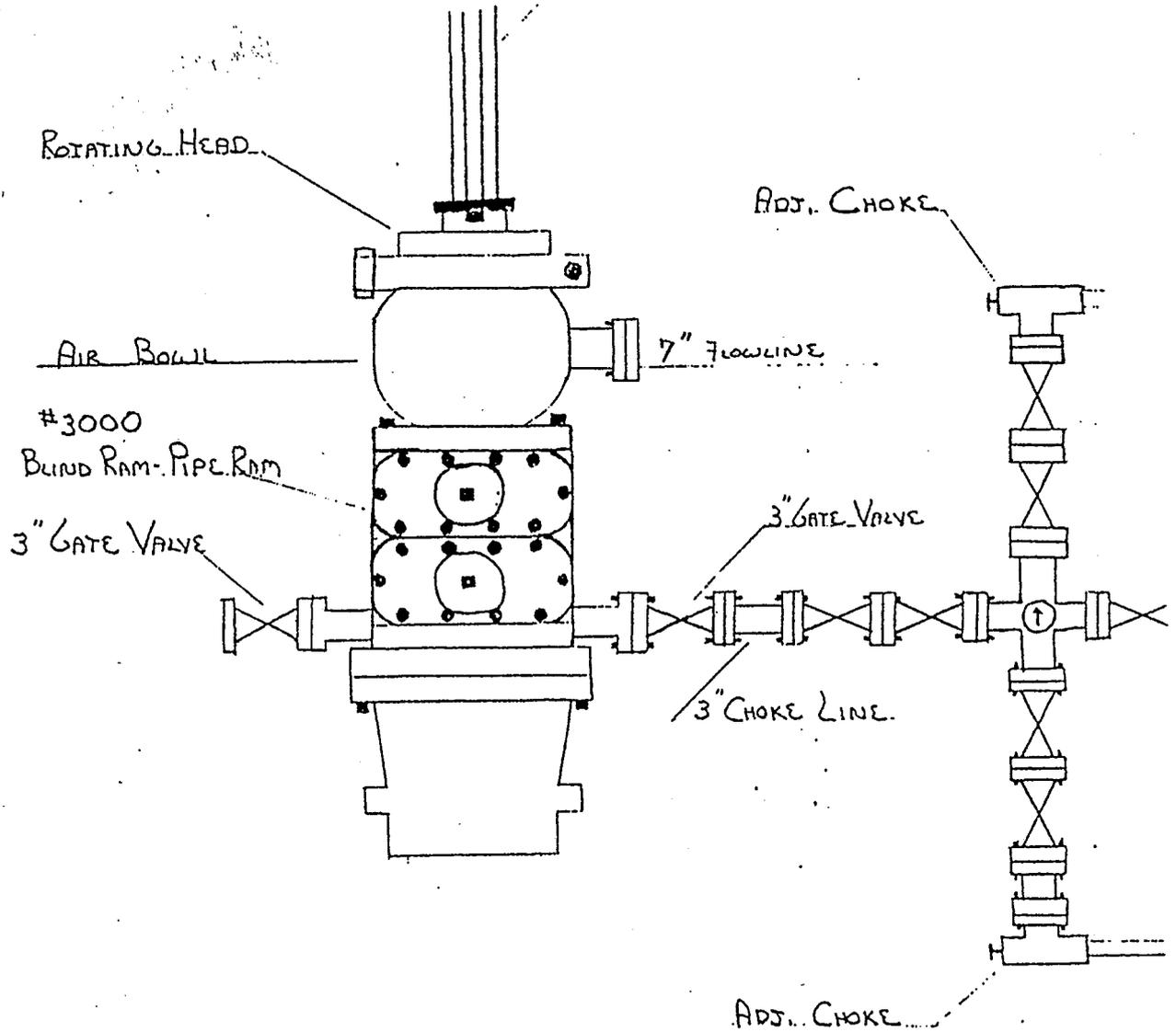
## BALCRON MONUMENT FEDERAL #31-7J WELLSITE LAYOUT



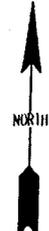
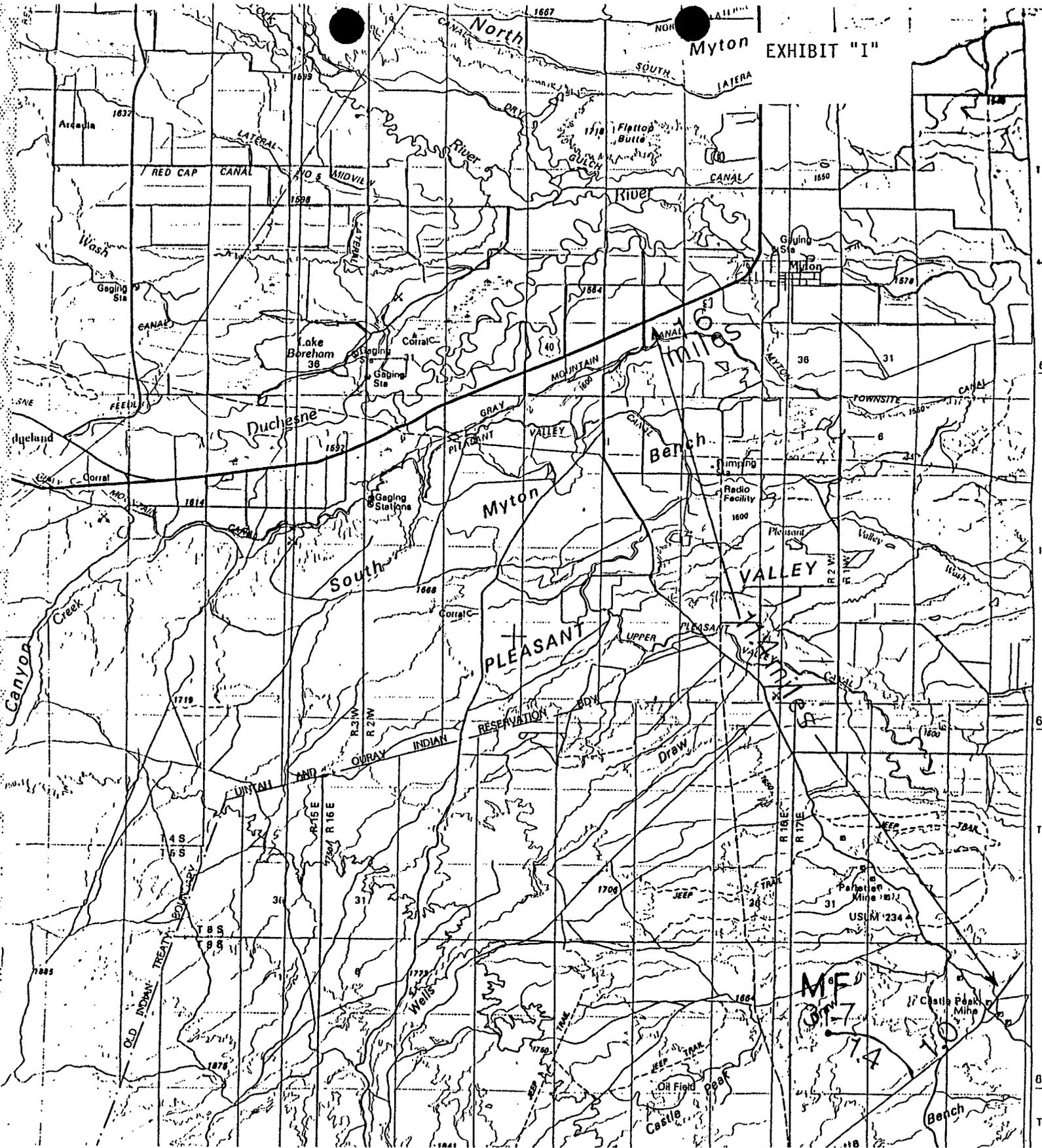
**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERNAL, UTAH 84078  
801-781-2501

UNION DRILLING RIG #17

Hex Kelly



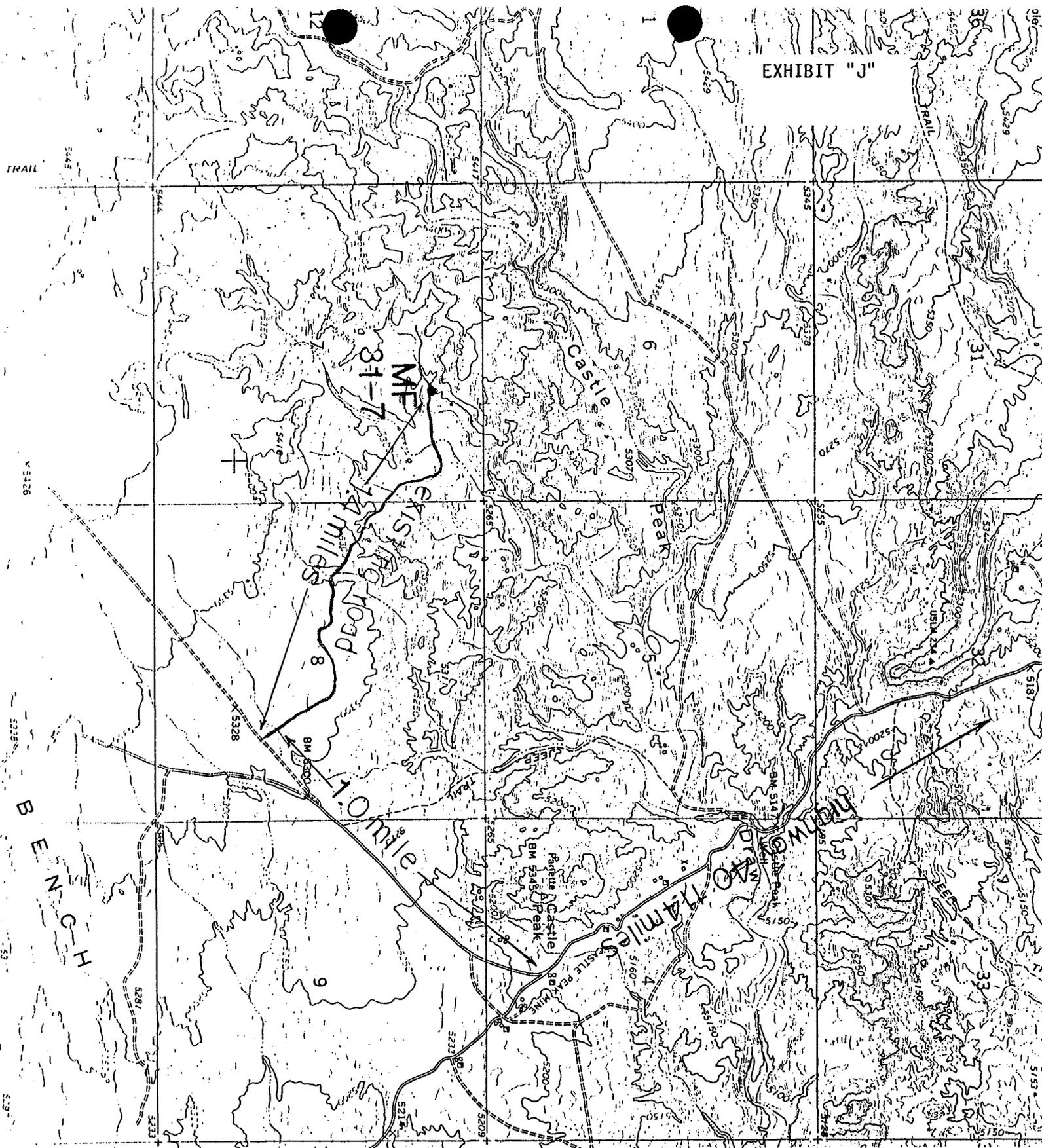
#3000 Stack



EQUITABLE RESOURCES ENERGY CO.  
 BALCRON MONUMENT FEDERAL #31-7J  
 MAP "A"

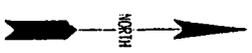
TRI-STATE  
 LAND SURVEYING, INC.  
 38 WEST 100 NORTH, VERNAL, UTAH 84078  
 801-781-2501

EXHIBIT "J"



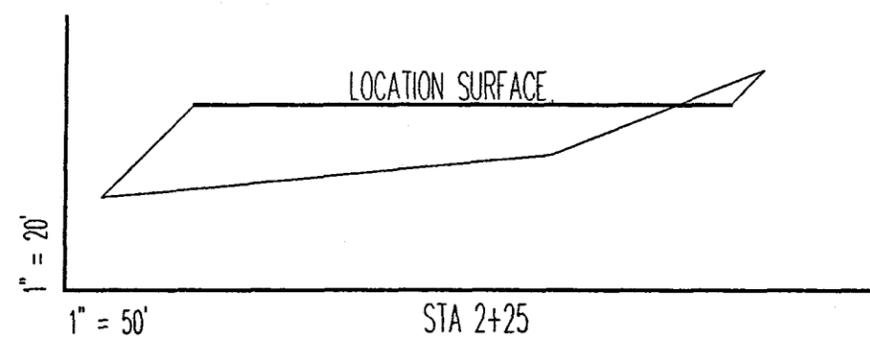
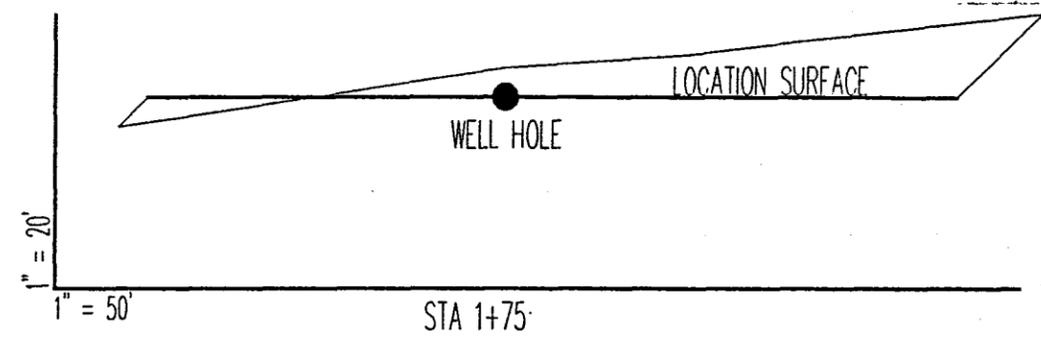
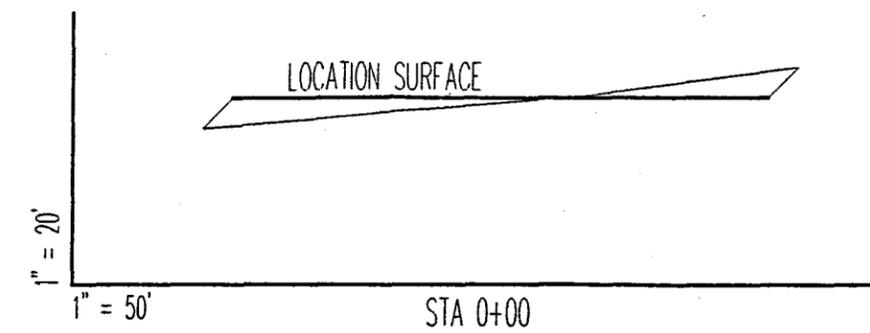
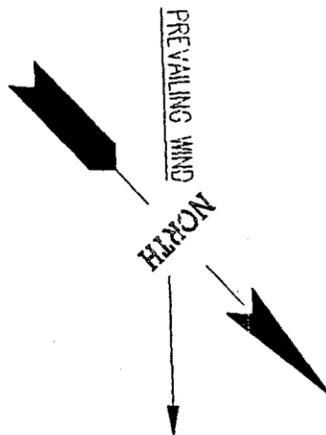
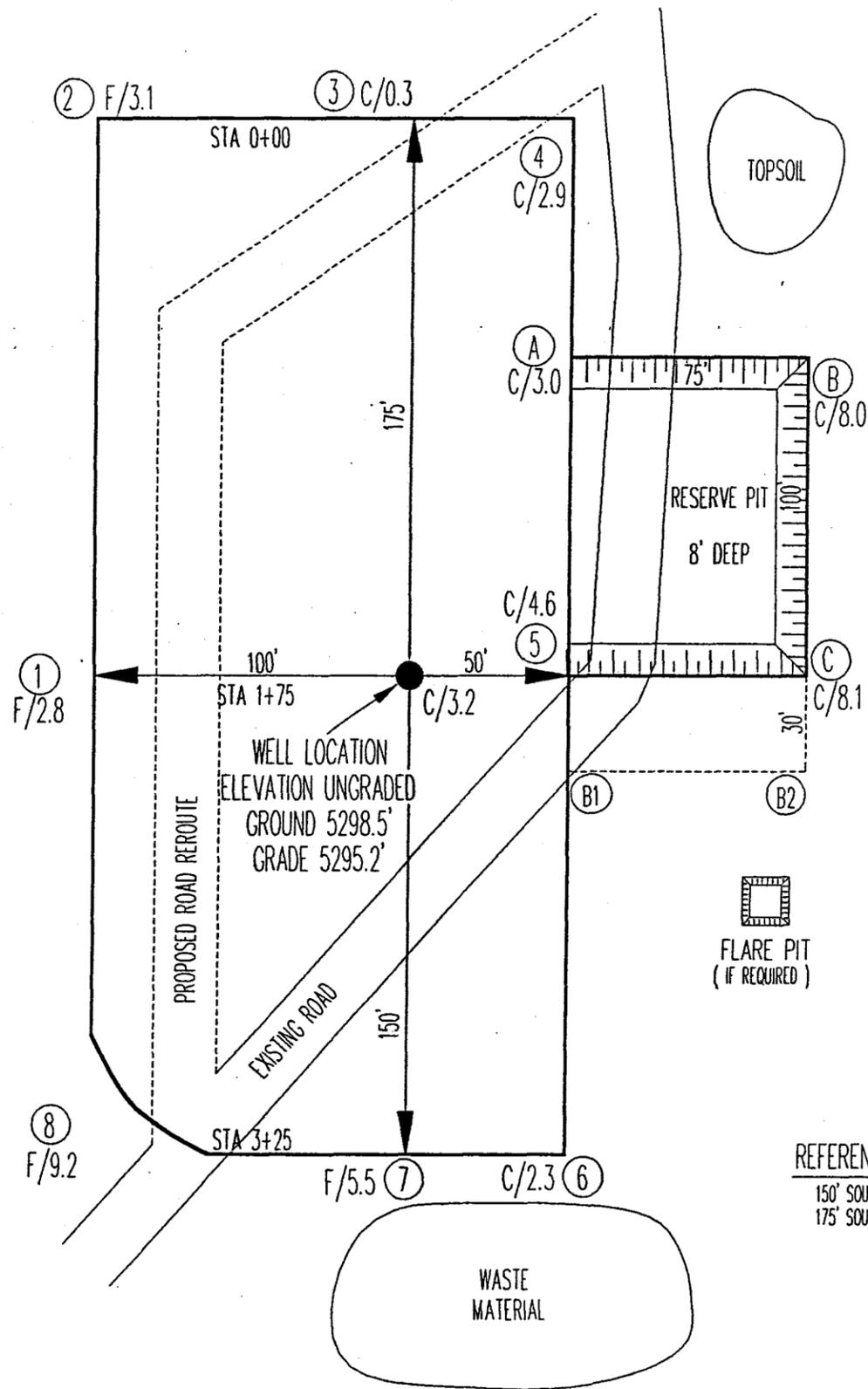
EQUITABLE RESOURCES ENERGY CO.  
 BALCRON MONUMENT FEDERAL #31-7J  
 MAP "B"

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





EQUITABLE RESOURCES ENERGY CO.  
BALCRON MONUMENT FEDERAL #31-7J



REFERENCE POINTS  
150' SOUTH 5289.53'  
175' SOUTH 5289.77'

APPROXIMATE YARDAGE  
CUT = 3645 Cu Yds  
FILL = 3112 Cu Yds  
PIT = 2222 Cu Yds

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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 08/23/93

OPERATOR: EQUITABLE RESOURCES  
WELL NAME: BALCRON MONUMENT FED 31-7J

OPERATOR ACCT NO: N- 9890

API NO. ASSIGNED: 43-013-31405

LEASE TYPE: FED LEASE NO: 1-444016  
LOCATION: NWNE 07 - T09S - R17E DUCHESNE COUNTY  
FIELD: MONUMENT BUTTE (105) FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

- Plat
- Bond  
(Number federal)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
(Number incl water permit #)
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

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

COMMENTS: Included in supplemental POO eff 8-4-93

STIPULATIONS:

~~Water Permit~~  
cc: Duchesne assessor



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)

August 25, 1993

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

Gentlemen:

Re: Balcron Monument Federal #31-7J Well, 831' FNL, 1782' FEL, NW NE, Sec. 7, T. 9 S., R. 17 E., Duchesne County, Utah

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., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
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 R.J. Firth, Associate Director, (Home) (801)571-6068.



Page 2  
Equitable Resources Energy Company  
Balcron Monument Federal #31-7J Well  
August 25, 1993

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

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

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 43-013-31405.

Sincerely,



R.J. Firth  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Bureau of Land Management  
Duchesne County Assessor  
J.L. Thompson  
WO11



**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

September 2, 1993

**RECEIVED**

SEP 03 1993

**DIVISION OF  
OIL, GAS & MINING**

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

Gentlemen:

Enclosed are archeology reports which are to be added as part of our Applications for Permit to Drill the wells on the attached list.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

MONUMENT BUTTE DRILLING PROGRAM

SIXTH BATCH

---

Balcron Federal #24-4Y  
SE SW Section 4, T9S, R16E  
Duchesne County, Utah  
710' FSL, 2031' FWL  
FLS #U-64379  
PTD: 6,175'  
GL 5,714.3'

Balcron Monument Federal #12-12J  
SW NW Section 12, T9S, R16E  
Duchesne County, Utah  
1980' FNL, 660' FWL  
FLS #U-096550  
PTD: 5,800'  
GL 5,542.8'

Balcron Monument Federal #14-12J  
SW SW Section 12, T9S, R16E  
Duchesne County, Utah  
660' FSL, 660' FWL  
FLS #U-035521-A  
PTD: 5,750'  
GL 5,487.5'

Balcron Monument Federal #24-12J  
SE SW Section 12, T9S, R16E  
Duchesne County, Utah  
539' FSL, 1777' FWL  
FLS #U-035521-A  
PTD: 5,700'  
GL 5,495.5'

Balcron Monument Federal #42-1J  
SE NE Section 1, T9S, R16E  
Duchesne County, Utah  
2087.2' FNL, 692.4' FEL  
FLS #U-40652  
PTD: 5,850'  
GL 5,380.3'

43-013-31404

Balcron Monument Federal #21-12J  
NE NW Section 12, T9S, R16E  
Duchesne County, Utah  
661.4' FNL, 1779.8' FWL  
FLS #U-096550  
PTD: 5,800'  
GL 5,448.9'

43-013-31406

Balcron Monument Federal #31-7J  
NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
831.18' FNL, 1782.38' FEL  
FLS #U-44426  
PTD: 5,700'  
GL 5,298.5'

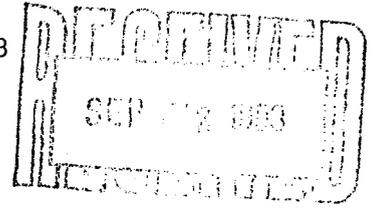
43-013-31406  
**CONFIDENTIAL**



# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

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

August 27, 1993



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

*Project:* Balcron Oil -- 1993 Development

*Project No.:* BLCR-93-4

*Permit No.:* Dept. of Interior -- UT-93-54937

*State Project No:* UT-93-AF-446b

SEP 03 1993

DIVISION OF  
OIL, GAS & MINING

*To:* Ms. Bobbi 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 SEVEN PROPOSED WELL LOCATIONS  
IN THE MONUMENT BUTTES  
LOCALITY OF DUCHESNE COUNTY, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-93-54937  
AERC Project 1395 (BLCR-93-4)

Utah State Project No.: UT-93-AF-446b

Principal Investigator  
F. Richard Hauck, Ph.D.

Author of the Report  
Glade V Hadden



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

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

August 27, 1993

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of seven proposed well locations situated on BLM administered lands located in the Monument Buttes locality of Duchesne County, Utah. This evaluation involved a total of 79.86 acres, of which 9.86 acres (.8 miles) include five separate access roads associated with units MF 42-1, MF 21-12, 14-12J, 24-12J and 24-4Y. The remaining 70 acres involve 10 acre parcels at all seven of the proposed well locations. These evaluations were conducted by Glade Hadden of AERC on August 25 and 26, 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 were discovered during the examinations.

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

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## GENERAL INFORMATION

On August 25 and 26, 1993, AERC archaeologist Glade Hadden conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved seven proposed well locations and associated access routes located in the Monument Buttes area south of Myton, Utah. Some .8 miles of access routes (9.86 acres) and seven - 10 acre well pads were examined. This project is situated in the Monument Buttes locality of Duchesne County, Utah. The entire project area is situated on federal lands administered by the Bureau of Land Management, Vernal District Office, Diamond Mountain Resource Area.

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 developments on these well locations require archaeological evaluations 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.

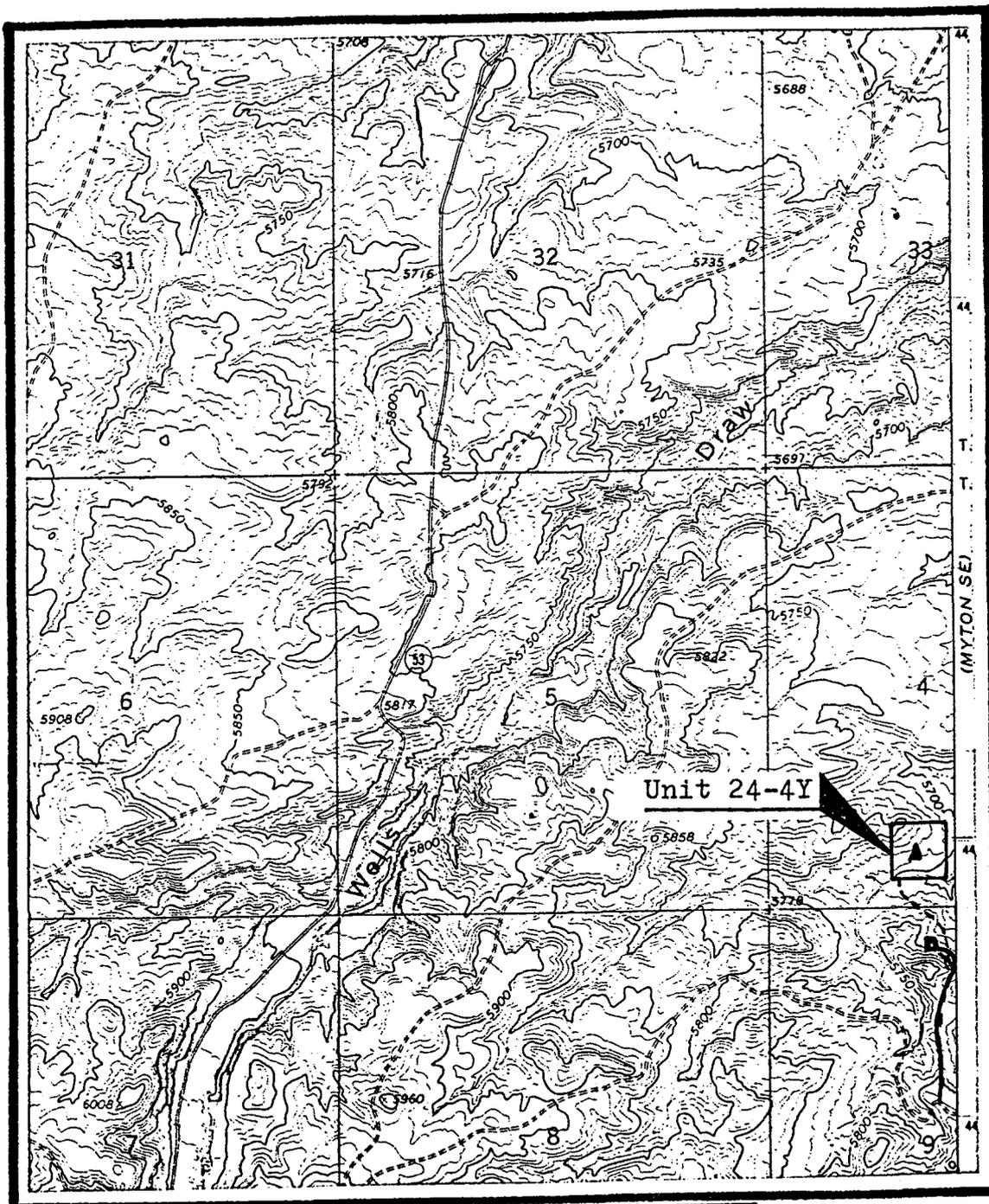
In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management Vernal District Office, and to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-93-54937 which expires on January 31, 1994.

### Project Location

The project location is in the Monument Buttes locality of Duchesne County, Utah. It is situated on the Myton SE and Myton SW 7.5 minute topographic quads.

Unit 24-4Y is situated in the SE - SW quarter of Section 4, Township 9 South, Range 16 East. Its access route extends ca. .25 mi. north from an existing well location (Balcron Unit 21-9Y) (See Map 1).

Unit 12-12J is in the SW - NW quarter of Section 12, Township 9 South, Range 16 East. This unit is accessible via an existing road which extends westerly from the main Monument Buttes road (See Map 2). The well location is directly adjacent this road, so no separate access route is necessary.



T. 9 South  
 R. 16 East  
 Meridian: SL  
 Quad: Myton SW  
 Utah

**MAP 1**  
 Cultural Resource Inventory  
 of Proposed Well Unit  
 24-4Y in the Monument  
 Buttes Locality, Duchesne Co.

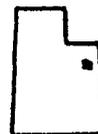
**Legend:**

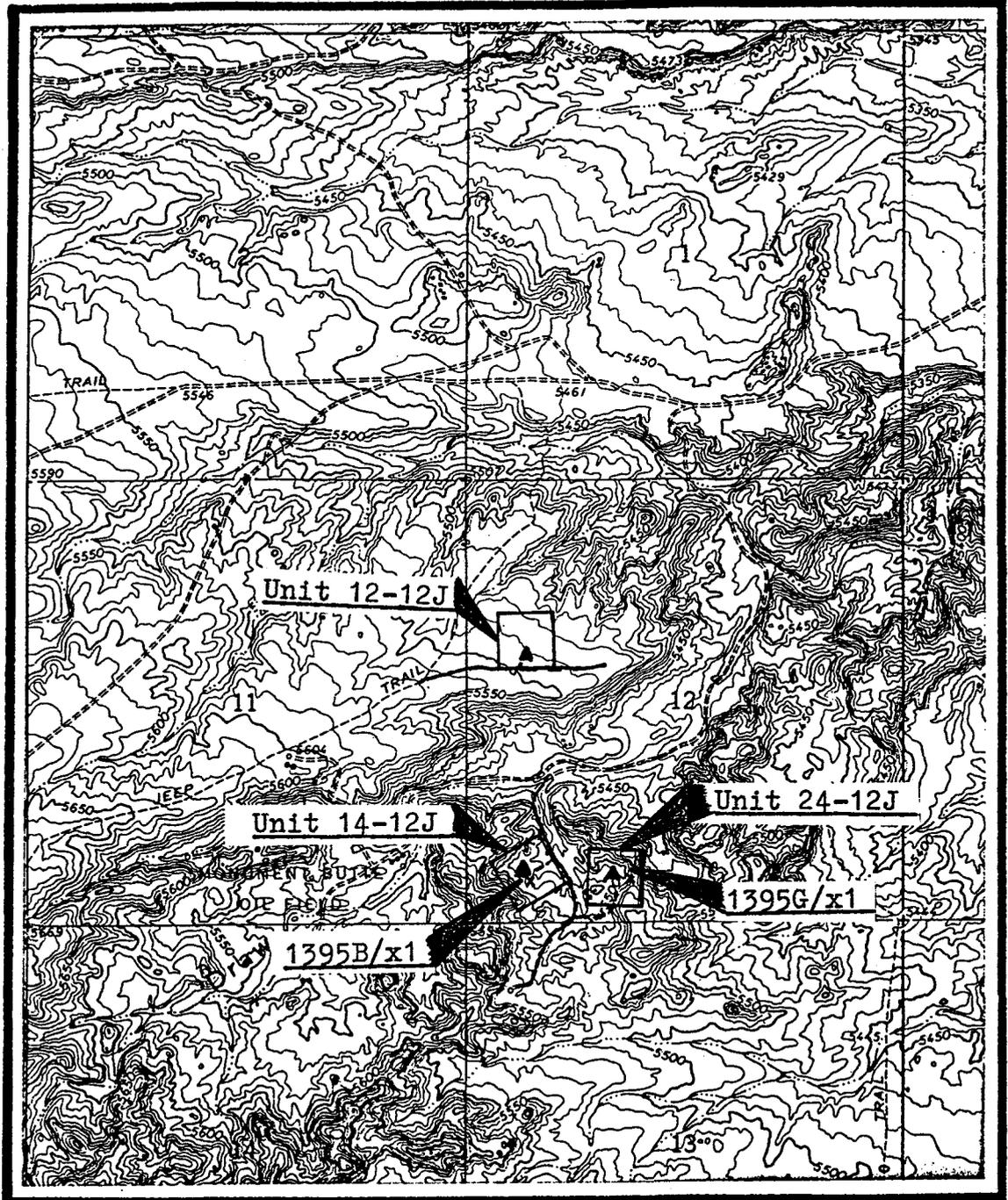
- Well Center Stake ▲
- 10 Acre Well Pad □
- Access Route - - - - -
- Existing Road ~~~~~



Project: BLCR-93-4  
 Series: Uinta Basin  
 Date: 8/30/93

Scale: 1:24,000





T. 9 South  
 R. 16 East  
 Meridian: SL  
 Quad: Myton SE  
 Utah

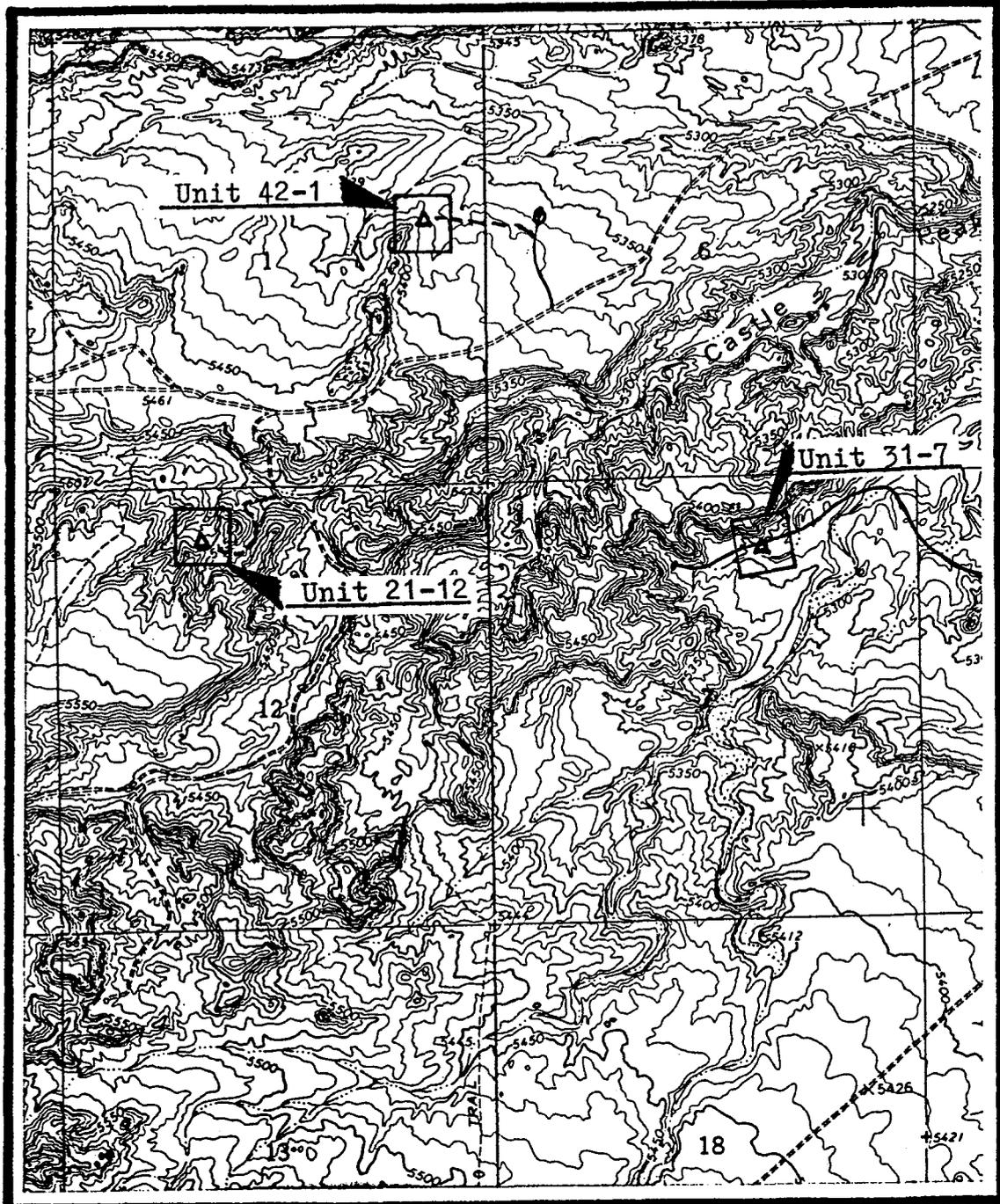
**MAP 2**  
 Cultural Resource Inventory  
 of Proposed Well Units  
 12-12J, 14-12J and 24-12J  
 Monument Buttes Locality

- Legend:**
- Well Center Stake ▲
  - 10 Acre Well Pad □
  - Access Route (---)
  - Existing Road (—)
  - Isolated Artifact X



**Project:** BLCR-93-4  
**Series:** Uinta Basin  
**Date:** 8/30/93  
**Scale:** 1:24,000





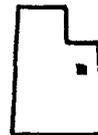
T. 9 South  
 R. 16 / 17 East  
 Meridian: SL  
 Quad: Myton SE  
 Utah

**MAP 3**  
 Cultural Resource Inventory  
 of Proposed Well Units  
 42-1, 31-7 and 21-12 in the  
 Monument Buttes Locality

**Legend:**  
 Well Center Stake   
 10 Acre Well Pad   
 Access Route   
 Existing Road 



**Project:** BICR-93-4  
**Series:** Uinta Basin  
**Date:** 8/30/93  
**Scale:** 1:24,000



Unit 14-12J is located in the SW - SW of the previous section (Section 12). This unit is reached via an existing road which runs south from the Castle Peak Draw / Monument Buttes Oil Field access road (See Map 2). A ca. 200 foot-long access route leads west from the spur road to the well location.

Unit 24-12J is situated in the SE - SW of the previous section (Sec. 12) along the same spur road which serves the previous unit (See Map. 2). A ca. 400 foot access route leads northeasterly into this location.

Unit 42-1 is in the SE - NE quarter of Section 1 in the same township and range. This unit may be reached from a spur road leading north past the Balcron Plant in section one, just off the main Monument Buttes access road. From an existing well, the access route for this unit extends ca. .2 mi. to the west (See Map 3).

Unit 31-7 is located in the NW - NE quarter of Section 7, Township 9 South, Range 17 East. This unit lies directly adjacent to an existing road which runs northwesterly from the main Pariette Bench road located in Section 8 (See Map 3).

Unit 21-12 is situated in the NE - NW quarter of Section 12, Township 9 South, Range 16 East. From the Castle Peak Draw / Monument Buttes Oil Field road, a ca. .25 mi. access route runs west to connect with the well location (See Map 3).

#### Environmental Description:

The project area is within the 5400 to 5600 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.*, *Eriogonum spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Atriplex canescens*, and a variety of grasses.

The geological associations within the project area consist of fluvial and 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 August 23, 1993. A similar search was conducted in the Vernal District Office of the BLM on August 25, 1993. 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 15 meter wide transects over a ten acre pad around each well location center stake. In addition, each access route was inventoried by the archaeologist walking a pair of 10 - 15 meter transects on each side of the flagged access route. Thus, a 35 meter-wide or 100 foot-wide corridor (ca. 9.86 acres) was examined for the total ca. .8 mile length of proposed access routes.

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 cultural resource activity loci were observed or recorded during the archaeological evaluations. No diagnostic tools or buried deposits were found within this site.

No previously recorded sites are located within the proposed development zones.

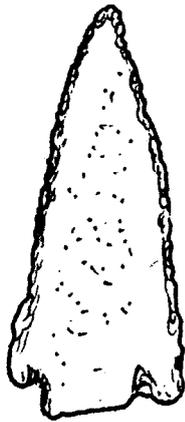
No significant or National Register sites were noted or recorded during the survey.

A number of isolated artifacts were observed or collected during the survey. A single corner notched projectile point (1395B/x1) was recovered by BLM archaeologist Blaine Phillips from near the well center stake of unit 14-12J during the initial reconnaissance of the well location. No other artifacts were noted at this location. At well unit 24-12J, an isolated exhausted core (1395G/x1) was observed on the ridge overlooking the well location. No other artifacts were noted in the vicinity. Two additional isolated artifacts were noted in the access road to unit 42-1. These finds consisted of two pieces of lithic debitage from a similar material source. Since both flakes were found in the bottom of an ephemeral drainage channel, and since no other artifacts could be located nearby, it is probably that these flakes are in a disturbed secondary context, having been transported to their present position by water action.

No paleontological loci were observed or recorded during the evaluations.

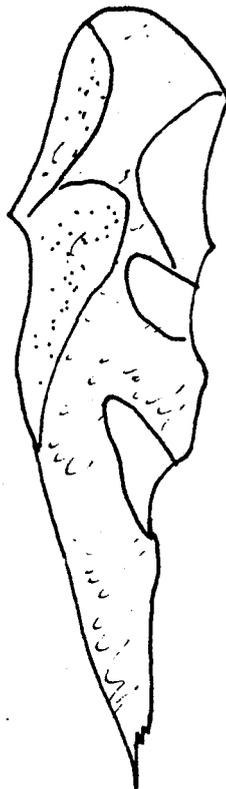
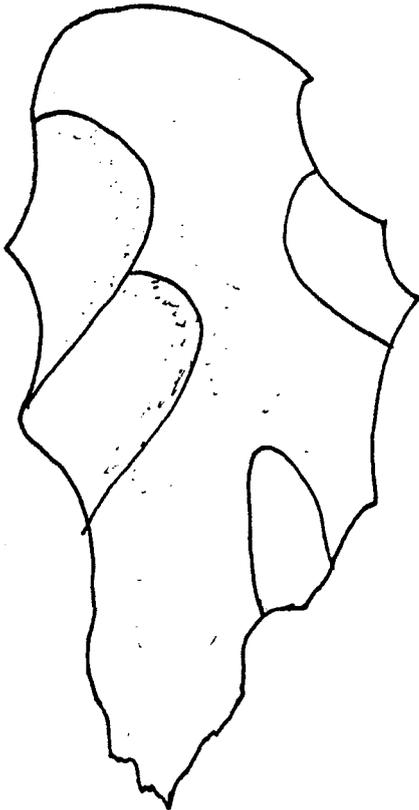
Isolated Artifact

1395B/x1



Isolated Artifact

1395G/x1

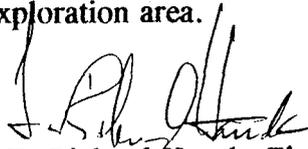


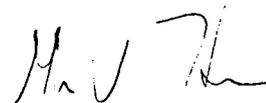
## CONCLUSION AND RECOMMENDATIONS

No known significant cultural or paleontological resources will be adversely impacted during the development and operation of the Balcron Oil Company well locations evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the developments proposed on these well 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 and/or evaluated access routes.
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.

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

  
Glade V Hadden  
Field Supervisor

REFERENCES

Hauck, F. Richard

1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, 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 \_\_\_

Summary Report of  
Inspection for Cultural Resources

Comments: \_\_\_\_\_

SEVEN WELL LOCATIONS IN THE  
MONUMENT BUTTES LOCALITY

1. Report Title . . . . .

Balcron Oil Company (BLCR-93-4)

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

3. Report Date . . . . . 08 27 1993 . . . . . 4. Antiquities Permit No. UT-92-54937

5. Responsible Institution . . . . . AERC BLCR 93-4 . . . . . Dohse  
County \_\_\_\_\_

6. Fieldwork 9 S 1 7 E 0 7  
Location: TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
7. Resource 9 S 1 6 E 0 1 0 4 1 2  
Area TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
.S M.

8. Description of Examination Procedures: The archeologist, Glade V Hadden intensively examined the proposed well locations by walking a series of 10 to 20 meter-wide transects across the ten acre study areas associated with each well pad and by walking paired 10 to 20 meter transects in a 100 foot-wide corridor centered on the flagged center-line stakes for each access route.

9. Linear Miles Surveyed . . . . . 10. Inventory Type . . .  
and/or I  
Definable Acres Surveyed . . . . . R = Reconnaissance  
and/or I = Intensive  
Legally Undefinable 7 9 . 8 6 S = Statistical Sample  
Acres Surveyed . . . . .

11. Description of Findings: No significant or non-significant archaeological sites were identified or recorded during this survey. Three sets of isolated artifacts were observed, of which one was collected.  
12. Number Sites Found .0. . . . . (No sites = 0)  
13. Collection: .Y. (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 8-23-93 Vernal BLM 8-25-93

16. Conclusion/ Recommendations: AERC recommends that a cultural resource clearance be granted to Balcron Oil Company for this proposed development 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 access routes.

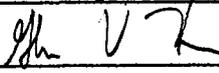
2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

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

UT 8100-3 (2/85)

Administrator  
Field Supervisor

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.  
U-44426

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

7. If Unit or CA, Agreement Designation  
Jonah Unit

1. Type of Well  
 Oil Well  Gas Well  Other

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NW NE Section 7, T9S, R17E  
831.18' FNL, 1782.38' FEL

8. Well Name and No.  
Balcron Monument Fed. #31-7J

9. API Well No.  
43-013-31405

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

11. County or Parish, State  
Duchesne County, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input 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>drilling contractor</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.)\*

**CONFIDENTIAL**

We will be using Molen Drilling on this well (see attached).

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

Signed

Dobbe Schuman

Title

Coordinator of Environmental  
and Regulatory Affairs

Date

9-28-93

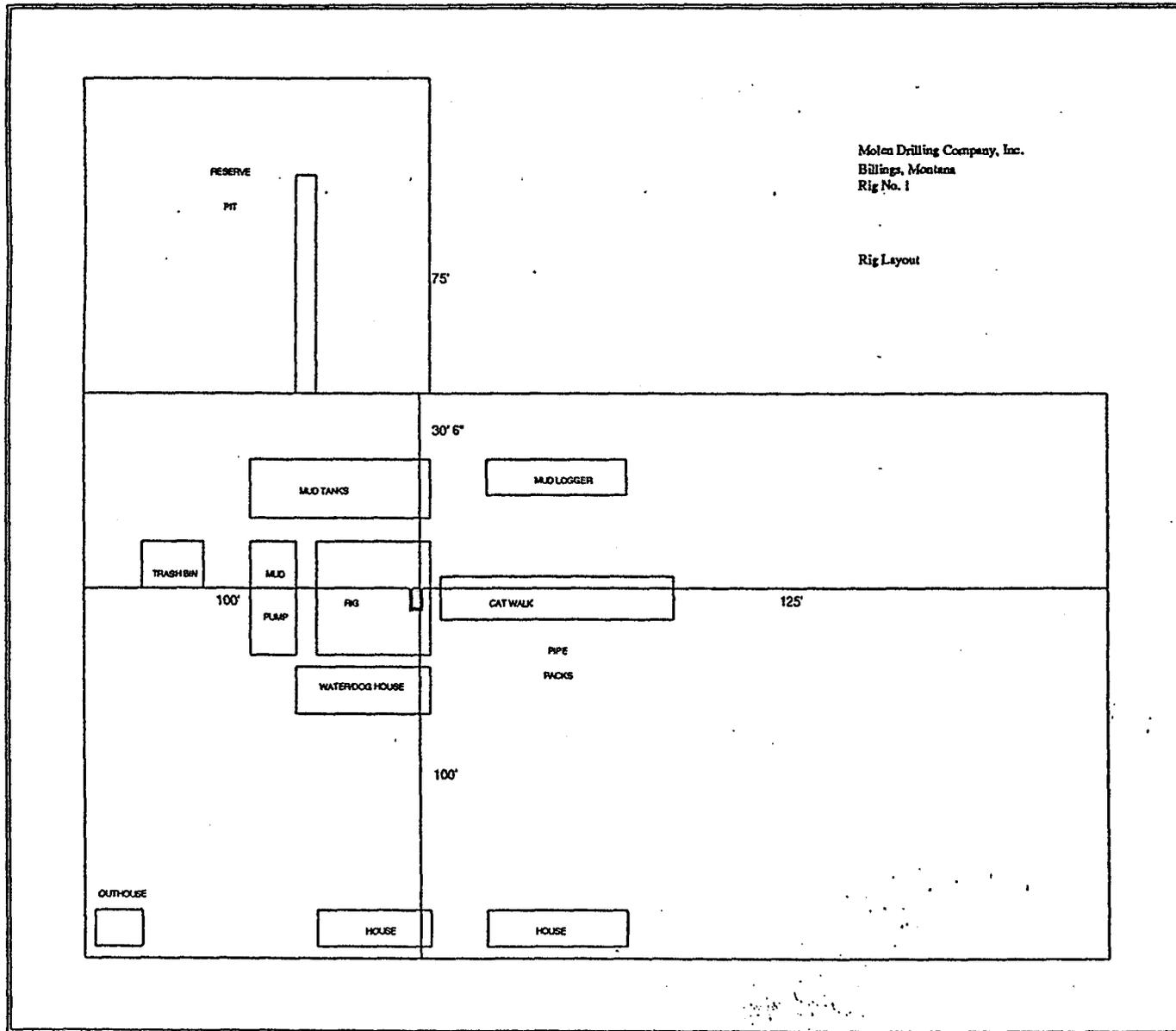
(This space for Federal Office use)

Approved by

Title

Date

Conditions of approval, if any:



Molen Drilling Company, Inc.  
 Billings, Montana  
 Rig No. 1

Rig Layout



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

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

RECEIVED

SEP 29 1993

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

September 27, 1993

DIVISION OF  
OIL, GAS & MINING

-- VIA FEDERAL EXPRESS --

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

CONFIDENTIAL

Gentlemen:

RE: Paleontology Reports

Enclosed are Paleontology Reports for the following wellsites and access roads:

Balcron Monument Federal #12-12J	43-013-31410	Sec 12 T9S R16E
Balcron Monument Federal #14-12J	43-013-31411	Sec 12 T9S R16E
Balcron Monument Federal #14-15	43-013-31384	Sec 15 T9S R16E
Balcron Monument Federal #21-12J	43-013-31406	Sec 12 T9S R16E
Balcron Monument Federal #24-12J	43-013-31409	Sec 12 T9S R16E
Balcron Monument Federal #31-7J	43-013-31405	Sec 7 T9S R17E
Balcron Monument Federal #42-1J	43-013-31404	Sec 1 T9S R16E
Balcron Federal #24-4Y	43-013-31412	Sec 4 T9S R16E

Also enclosed are the Monitoring Reports submitted by the paleontologist for the following wellsites:

Balcron Federal #21-9Y	43-013-31396	Sec 9 T9S R16E
Balcron Monument Federal #13-5	43-047-32261	Sec 5 T8S R25E

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Federal #31-7J

NW NE SECTION 7, T9S, R17E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

SEPTEMBER 6, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #31-7

Description of Geology and Topography-

This location is in a badlands area about 1/2 mile south of Castle Peak Draw, 10 miles south of Myton, Utah. It is on the south side of a ridge near its base. Drainage is to the south and southeast into another drainage which runs northeast into Castle Peak Draw. The ridge immediately north rises 60 to 80 feet above the valley floor. Rock outcrops in the area of the proposed wellpad are interbedded layers of mudstone, and sandstone. The location sits on an existing road, so there is no addition road required.

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.

Paleontological material found -

A few turtle shell fragments can be found scattered here and there around the wellpad location, but the most sensitive area is immediately southeast of the wellpad and will either be covered or not effected. There is a fossiliferous layer producing turtle shells at the southeastern and eastern edges of the wellpad. This layer is below the main level of the pad location and most of the fossil turtles found here are off the well pad. Turtles were found eroding out 85 yards south 70 degrees east of center stake, 80 yards 75 degrees east of center stake, and at 95 yards due east from center stake. There are a few turtle fragments at the southeast corner of the wellpad, 4 yards south of corner # 7, and a few scraps south of corner #6.

Recommendations-

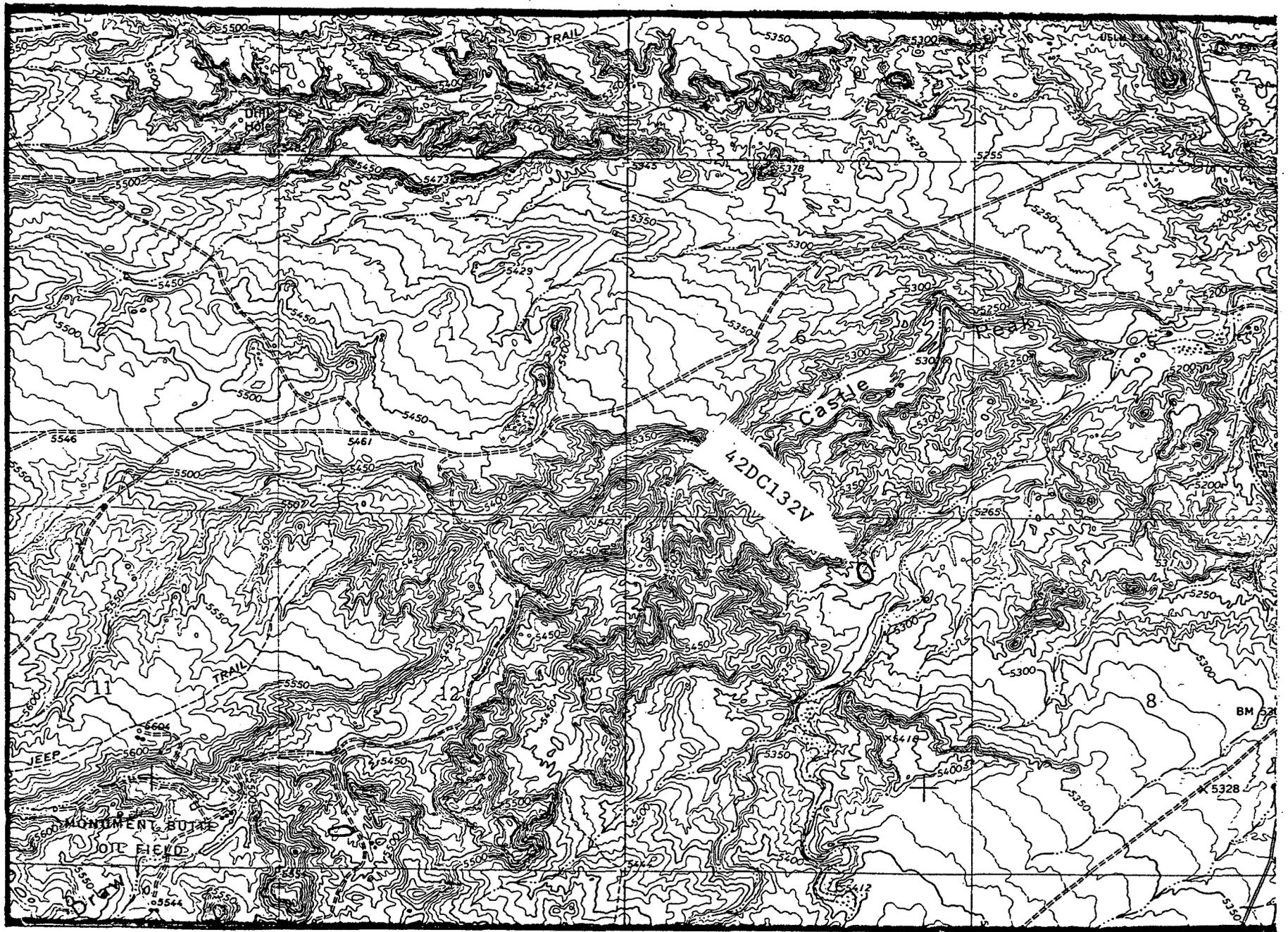
The significant fossiliferous layer is near the lowest elevation effected at the well pad, and most of the observed material is just out side the wellpad as staked. Construction of the wellpad should be kept within the area staked, particularly southeast of the location to protect the material there.

No other recommendations are made for this location.

Allen A. Humblin  
Paleontologist

Date September 13, 1993

<b>PALEONTOLOGY LOCALITY</b> <b>Data Sheet</b>					Page 1 of 1 plus map										
					State Local. No. 42 DC 132V										
					Agency No.										
					Temp. No BALCRON MONUMENT BUTTE FEDERAL #31-7										
1. Type of locality Invertebrate		Plant		Vertebrate		X Trace		Other _____							
2. Formation: UINTA			Horizon: "B"			Geologic Age: Late Eocene									
<b>3. Description of Geology and Topography:</b> This location is in a badlands area south of Castle Peak Draw. It is on the south side of a ridge near its base. Drainage is to the south and southeast into another drainage which runs northeast into Castle Peak Draw. The ridge immediately north rises 60 to 80 feet above the valley floor. It sits on an existing road, so there is no addition road required. All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodylians, and occasional fish remains. Rock outcrops in the area of the proposed wellpad are interbedded layers of mudstone, and sandstone.															
<b>4. Location of Outcrop:</b> This location is 1/2 mile south of Castle Peak Draw, 10 miles south of Myton, Utah.															
5. Map Ref.		USGS Quad Myton SE, Utah			Scale 7.5 Min		Edition 1964								
E1/2	of	NW1/4	of	NE1/4	of Sectn	7	T	9 S	R 17E	Meridn	SLB				
6. State: UTAH		County: DUCHESNE COUNTY			BLM/FS District: VERNAL- DIAMOND MT.										
7. Specimens Collected and Field Accession No. NONE															
8. Repository:															
<b>9. Specimens Observed and Disposition:</b> A few turtle shell fragments can be found scattered here and there around the wellpad location, but the most sensitive area is immediately southeast of the wellpad and will either be covered or not effected. There is a fossiliferous layer producing turtle shells at the southeastern and eastern edges of the wellpad. This layer is below the main level of the pad location and most of the fossil turtles found here are off the well pad. Turtles were found eroding out 85 yards south 70 degrees east of center stake, 80 yards 75 degrees east of center stake, and at 95 yards due east from center stake. There are a few turtle fragments at the southeast corner of the wellpad, 4 yards south of corner # 7, and a few scraps south of corner #6.															
10.Owner: Private		State		BLM X		US FS		NPS		IND		MIL		OTHR	
<b>11.Recommendations for Further Work or Mitigation:</b> The significant fossiliferous layer is near the lowest elevation effected at the well pad, and most of the observed material is just out side the wellpad as staked. Construction of the wellpad should be kept within the area staked, particularly southeast of the location to protect the material there. No other recommendations are made for this location.															
12.Type of Map Made by Recorder:															
13.Disposition of Photo Negatives:															
<b>14.Published References:</b> Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.															
15.Remarks:															
16.Sensitivity:		Critical		Significant		X		Important		X		Insignificant			
17.Recorded by: Alden Hamblin, Paleontologist					Date: September 3, 1993										



42DC132V

BALCRON MONUMENT BUTTE FEDERAL #31-7  
NW NE SEC. 7, T9S, R16E, SLB&M MYTON SE, UTAH QUAD



**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

September 28, 1993

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

Gentlemen:

RE: Balcron Monument Federal #41-14J  
Balcron Monument Federal #41-18  
Balcron Monument Federal #31-7J  
Balcron Monument Federal #14-8

Enclosed is a sundry notice reporting the drilling contractor that will be used on the referenced wells.

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

Sincerely,

Molly M. Conrad  
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining

**CONFIDENTIAL**

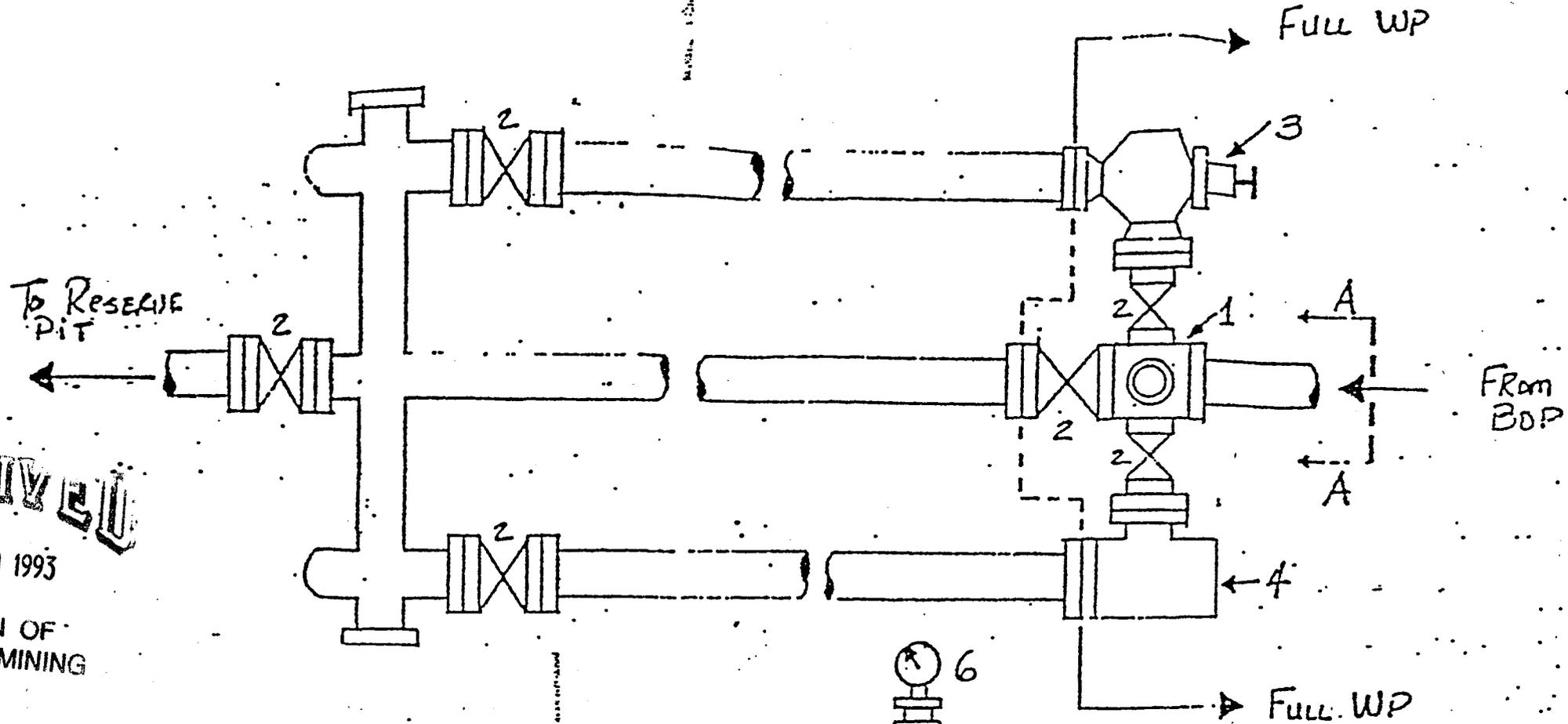
**RECEIVED**

SEP 30 1993

DIVISION OF  
OIL, GAS & MINING

EXHIBIT "H"

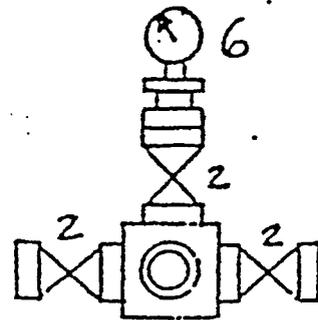
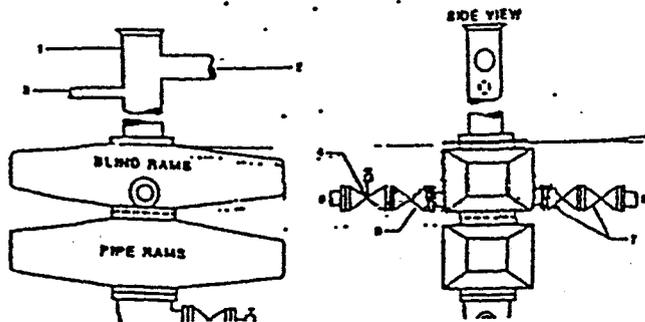
MANUFACTURED BY THE BUREAU OF MINES



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SEP 30 1993

DIVISION OF OIL, GAS & MINING



VIEW A-A

- 1. Cross
- 2. Gate Valve
- 3. Adjustable Choke
- 4. Positive Choke
- 5. Welded Ball Plug, Lead Filled
- 6. 2" - 1000-psi mud pressure gauge

Notes: All lines must be securely anchored.

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 **CONFIDENTIAL**

3. ADDRESS OF OPERATOR  
P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface NW NE Section 7, T9S, R17E 831.18' FNL, 1782.38' FEL  
At proposed prod. zone **43-013-31405**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 15 miles SW of Myton, Utah

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

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5,298.5' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
See drilling	program/casing	design	

EXHIBITS ATTACHED

- "A" PROPOSED DRILLING PROGRAM
- "B" PROPOSED SURFACE USE PROGRAM
- "C" GEOLOGIC PROGNOSIS
- "D" DRILLING PROGRAM/CASING DESIGN
- "E" EVIDENCE OF BOND COVERAGE
- "F" SURVEY PLAT

- "G" RIG LAYOUT
- "H" BOPE DIAGRAM
- "I" EXISTING ROADS (Map A)
- "J" PLANNED ACCESS (Map B)
- "K" EXISTING WELLS (Map C)
- "L" CUT & FILL DIAGRAM

**CONFIDENTIAL**  
DIVISION OF OIL, GAS & MINING  
RECEIVED  
AUG 28 1993

5. LEASE DESIGNATION AND SERIAL NO.  
U-44426  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
n/a  
7. UNIT AGREEMENT NAME  
Jonah Unit  
8. FARM OR LEASE NAME  
Balcron Monument Federal  
9. WELL NO.  
31-7J  
10. FIELD AND POOL, OR WILDCAT  
Monument Butte/Grn. River  
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA  
NW NE Sec. 7, T9S, R17E  
12. COUNTY OR PARISH  
Duchesne  
13. STATE  
UTAH

16. NO. OF ACRES IN LEASE  
17. NO. OF ACRES ASSIGNED TO THIS WELL  
19. PROPOSED DEPTH  
~~XXXXXX~~ 5,700'  
20. ROTARY OR CABLE TOOLS  
Rotary  
22. APPROX. DATE WORK WILL START\*  
Upon APD Approval

**RECEIVED**  
OCT 1 1993

Please note the change in well # from the NOS. This should be the #31-7J.

**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 Coordinator of Environmental and Regulatory Affairs DATE 8/20/93  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE SEP 28 1993  
APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO THIS 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 department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UT-180-3M-083

## WELL LOCATION INFORMATION

Company/Operator Equitable Resources Energy Co.  
API Number 43-013-31405  
Well Name & Number Balcron Monument Federal No. 31-7J  
Lease Number U-44426  
Location NWNE Sec. 7 T. 9S. R. 17E.  
Surface Ownership BLM  
Date NOS Received July 23, 1993  
Date APD Received August 23, 1993

## 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

Water will be applied to new/existing roads for dust abatement as needed. Where new or existing roads become damaged from the operators use, the operator will apply water/gravel to keep the roads from blowing or washing away.

The reserve pit shall be lined.

The plastic liner will have sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

Prior to reclaiming of any disturbed areas, the operator will contact the Authorized Officer of the BLM to determine the most desirable site specific seed mixture for reclamation.

Seeding will be done between September 15 and when the ground freezes, unless otherwise approved by the AO.

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 24-48 hours prior to construction activities.

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Equitable Resources Energy Company Well No. Balcron Federal 31-7J  
Location NWNE Section 7, T9S, R17E Lease No. U - 44426

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.

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

3. Casing Program and Auxiliary Equipment

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at  $\pm$  2,685 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  $\pm$  2,485 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

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

#### 7. Other Information

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

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

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

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

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

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

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

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

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

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

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

Gerald E. Kenczka (801) 781-1190  
Petroleum Engineer

Ed Forsman (801) 789-7077  
Petroleum Engineer

BLM FAX Machine (801) 789-3634

## 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

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

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

NW NE Section 7, T9S, R17E  
831.18' FNL, 1782.38' FEL

5. Lease Designation and Serial No.  
U-44426

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

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.

Balcron Monument Fed. #31-7J

9. API Well No.

43-013-31405

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, UTAH

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

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

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

Operator's water source will be from an approved source in Section 27, T1S, R2W from a well permitted by Owen Dale Anderson under Water User Claim #43-9974 (Application #A-14289). A copy of that permit is attached to this sundry. The water will be trucked by Dalbo Trucking out of Vernal, Utah.

**CONFIDENTIAL**

OCT 26 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed Robbie Schuman

Title Coordinator of Environmental and Regulatory Affairs

Date October 21, 1993

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

\*See Instruction on Reverse Side

# APPLICATION FOR PERMANENT CHANGE OF WATER

STATE OF UTAH

RECEIVED  
APR 17 1987  
WATER RIGHTS  
SALT LAKE

Rec. by D1  
Fee Paid \$ 15.00  
Receipt # 22150  
Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a permanent change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

RECEIVED

\*WATER USER CLAIM NO. 43-9974 \*APPLICATION NO. a-14289

OCT 28 1993

Changes are proposed in (check those applicable)  
\_\_\_\_\_ point of diversion. \_\_\_\_\_ point of return.  
 place of use.  nature of use.

DIVISION OF OIL, GAS & MINING  
\*Interest: \_\_\_\_\_%

1. OWNER INFORMATION  
Name: Owen Dale Anderson  
Address: PO Box 1162 Vernal UT 84078

2. \*PRIORITY OF CHANGE: \_\_\_\_\_ \*FILING DATE: \_\_\_\_\_  
\*Is this change amendatory? (Yes/No): \_\_\_\_\_

3. RIGHT EVIDENCED BY: 43-3525  
Prior Approved Change Applications for this right: 83-43-21 84-43-73 6-14099

\*\*\*\*\* HERETOFORE \*\*\*\*\*

4. QUANTITY OF WATER: 0.5 cfs and/or \_\_\_\_\_ ac-ft.

5. SOURCE: U.G.W. (well)

6. COUNTY: Duchesne

7. POINT(S) OF DIVERSION: South 1167 ft East 340 ft from N 1/4 Corner Section 27 T1S, R2W, USB+M

Description of Diverting Works: \_\_\_\_\_

8. POINT(S) OF REDIVERSION  
The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

9. POINT(S) OF RETURN  
The amount of water consumed is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.  
The amount of water returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.  
The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

10. NATURE AND PERIOD OF USE

Stockwatering: From Jan 1 to Dec 31  
 Domestic: From \_\_\_\_\_ to \_\_\_\_\_  
 Municipal: From \_\_\_\_\_ to \_\_\_\_\_  
 Mining: From \_\_\_\_\_ to \_\_\_\_\_  
 Power: From \_\_\_\_\_ to \_\_\_\_\_  
 Other: From Jan 1 to Dec 31  
 Irrigation: From April 1 to Oct 31

RECEIVED

OCT 28 1993

DIVISION OF OIL, GAS & MINING

11. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): 250 Livestock Units  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): drilling & completion of oil field locations fish culture  
 Irrigation: 55.7 acres. Sole supply of \_\_\_\_\_ acres

12. PLACE OF USE

Legal description of areas of use other than irrigation by 40 acre tract: n/a

13. STORAGE

Reservoir Name: unnamed Storage Period: from 11-1 to 3-31  
 Capacity: 4.0 ac-ft. Inundated Area: \_\_\_\_\_ acres  
 Height of dam: \_\_\_\_\_ feet  
 Legal description of inundated area by 40 tract: NW NE Sec 27, T15 R2W U5B & M

\*\*\*\*\* THE FOLLOWING CHANGES ARE PROPOSED \*\*\*\*\*

14. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 20.0 ac-ft  
 15. SOURCE: UGW Remaining Water: same  
 16. COUNTY: Duchesne  
 17. POINT(S) OF DIVERSION: same

Description of Diverting Works: \_\_\_\_\_

18. POINT(S) OF REDIVERSION

The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

19. POINT(S) OF RETURN

The amount of water consumed is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft

The amount of water returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft

The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

20. NATURE AND PERIOD OF USE

RECEIVED

OCT 28 1993

DIVISION OF OIL, GAS & MINING

- Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_
- Domestic: From \_\_\_\_\_ to \_\_\_\_\_
- Municipal: From \_\_\_\_\_ to \_\_\_\_\_
- Mining: From \_\_\_\_\_ to \_\_\_\_\_
- Power: From \_\_\_\_\_ to \_\_\_\_\_
- Other: From Jan 1 to Dec 31
- Irrigation: From \_\_\_\_\_ to \_\_\_\_\_

21. PURPOSE AND EXTENT OF USE

- Stockwatering (number and kind): \_\_\_\_\_
- Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons
- Municipal (name): \_\_\_\_\_
- Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine
- Ores mined: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_
- Power Plant name: \_\_\_\_\_
- Other (describe): drilling and completion of oil wells
- Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: \_\_\_\_\_  
Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres  
Height of dam: \_\_\_\_\_ feet  
Legal description of inundated area by 40 tract: \_\_\_\_\_

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): \_\_\_\_\_

Change is for oilfield drilling and exploration.

Approximately 4 acre ft<sup>new</sup> will be taken from

irrigation purposes and used for oilfield purposes  
Acres to be irrigated will change from ~~55.7~~ to ~~50~~ acres  
50.7 48.7

\*\*\*\*\*

he undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Quinn Dale Anderson  
Signature of Applicant(s)

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES

WELL NAME: BALCRON MONUMENT FEDERAL 31-7J

API NO. 43-013-31405

Section 7 Township 9S Range 17E County DUCHESNE

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED: Date 10/29/93

Time 10:30 AM

How DRY HOLE

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

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 10/29/93 SIGNED DLI



EQUITABLE RESOURCES  
ENERGY COMPANY

**BALCRON OIL DIVISION**

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

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

November 1, 1993

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

Gentlemen:

RE: Balcron Monument Federal #31-7J  
NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Enclosed is our sundry notice reporting spud on the referenced well.

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

Sincerely,

Molly M. Conrad  
Operations Secretary

/mc

cc: State of Utah, Division of Oil, Gas, & Mining -  
also enclosed is the Entity Action Form  
Dawn Schindler  
Mary Lou Dixon - Uintah Basin Health Dept. (VIA FAX)

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NOV 02 1993

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

5. Lease Designation and Serial No.  
U-44426

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

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.

Balcron Monument Fed. #31-7J

9. API Well No.

43-013-31405

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

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

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

NW NE Section 7, T9S, R17E

831.18' FNL, 1782.38' FEL

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

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

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

This well was spud on 10-29-93 at 10:00 a.m. by Leon Ross Air Drilling.

**REGISTERED**

NOV 02 1993

DIVISION OF  
OIL, GAS & MINING

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

Coordinator of Environmental  
and Regulatory Affairs

Signed Bobbie Schuman

Title

Date 11-1-93

(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

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

OPERATOR ACCT. NO. N 9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11584	43-013-31405	Balclutha Monument Federal #31-7J	NW NE	7	9S	17E	Duchesne	10-29-93	10-29-93

WELL 1 COMMENTS: Entity added 11-3-93. J fee

--	--	--	--	--	--	--	--	--	--	--	--

WELL 2 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 3 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 5 COMMENTS:

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

NOTE: Use COMMENT section to explain why each Action Code was selected.  
 (89)

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DIVISION OF OIL, GAS & MINING

*Bobbie Schuman*  
 Signature Bobbie Schuman  
 Coordinator of Environmental and Regulatory Affairs  
 Title 11-1-93  
 Date

Phone No. (406) 259-7860



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

COMPANY: EQUITABLE RESOURCES CO COMPANY REP: AL PLUNKETT

WELL NAME: MONUMEWNT FED #31-7J API NO: 43-013-31405

QTR/QTR: NW/NE SECTION: 7 TWP: 09S RANGE: 17E

CONTRACTOR: MOLAN DRILLING COMPANY RIG NUMBER: #1

INSPECTOR: INGRAM TIME: 12:00 NOON AM DATE: 11/26/93

OPERATIONS: TESTING BOP'S DEPTH: SURFACE SET

SPUD DATE: DRY: 10/29/93 ROTARY: 11/26/93 PROJECTED T.D.: 5700

=====

WELL SIGN: Y SANITATION: Y BOPE: Y BLOOIE LINE: Y

H2S POTENTIAL: N/A ENVIRONMENTAL: OK FLARE PIT: Y

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

RUBBER: \_\_\_\_\_ BENTONITE: \_\_\_\_\_ OTHER: \_\_\_\_\_ MUD WEIGHT 8.4 LBS/GAL

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: N

BOPE TRAINING RECORDED IN THE RIG DAILY TOUR BOOK: N

=====

LEGEND: (Y)=YES (U)=UNKNOWN (NA)=NOT APPLICABLE

=====

REMARKS:

LAST HOLE FOR MOLAN THIS YEAR. WILL ROTARY BY EVENING. ARE PRESENTLY

PRESSURE TESTING BOP'S WITH QUICK TEST. KOOMEY PUMPED UP TO 2800 PSI.

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

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 11/29/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\***

**BALCRON MONUMENT FEDERAL #14-5J**

Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: SW SW Section 5, T9S, R17E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

11-26-93 Completion  
Surface equipment hook up & pit reclamation.  
Start pumping @ 12:00 noon; 6-1/2 SPM, 87" stroke length.  
DC: \$30,275

**BALCRON MONUMENT FEDERAL #42-1J**

Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: SE NE Section 1, T9S, 16E  
Duchesne County, Utah  
Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

11-24-93 Completion  
Thaw BOP & csg head. TIH w/170 jts 2-7/8" tbg, tag sand @ 5136' KB. Circ down to 5338 KB, set packer @ 5012' KB. EOT 5060' KB. Make 15 swab runs, recovered 90 BW, trace of oil. Release packer, tag sand @ 5330', circ down # 5341' (BP), release BP, reset BP @ 4970' KB. TOOH w/tbg & tools. SWI.  
DC: \$1,962

**BALCRON MONUMENT FEDERAL #31-7J**

Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte Field  
PTD: 5,700' Green River Oil - Dev.

---TIGHT HOLE---

10-14/27-93 Work on & finish location.

10-29-93 MI Leon Ross Air Drilling & drill 12-1/4" hole to 150'.

11-1-93 Finish drilling 12-1/4" surface hole to 270'.

11-2-93 Guide Shoe .60'  
1 jts 8-5/8" 24# shoe jt 44.94'  
Insert Float -----  
5 jts 8-5/8" 24# J-55 csg 225.86  
Set at 269' GL  
Molen KB (13') 282' KB 3 centralizers  
Cmt by Western w/150 sxs "G" + 2% CCL & 1/4#/sx celdflakes. Good returns, 5 bbls cmt back to pit. Plug down @ 12:00 noon 11-2-93.  
DC: \$11,266 CC: \$37,869

BALCRON MONUMENT FEDERAL #31-7J CONTINUED...

11-26-93 SD until 6 a.m. 11-26-93.

11-27-93 TD: 675' (393') Day 1  
Formation: Uintah  
MW 8.3 VIS 26  
Present Operation: Drilling  
NU & test BOP & manifold, had trouble w/ace. Tested to 2000# - OK.  
Test csg to 1500# - OK. Cut drill line, PU collars & drill cmt.  
Drill & survey.  
DC: \$6,092 CC: \$44,361

11-28-93 TD: 1,615' (940') Day 2  
Formation: Green River  
MW 8.3 VIS 26  
Present Operation: Drilling  
Drill, survey, dig ditches, & clean on rig.  
DC: \$12,215 CC: \$56,576

11-29-93 TD: 2,630' (1,015') Day 3  
Formation: Green River  
MW 8.3 VIS 26  
Present Operation: Drilling  
Drill, survey, trip for pressure loss, couldn't find hole, change  
bit & drill ahead.  
DC: \$13,059 CC: \$69,635

BALCRON MONUMENT FEDERAL #14-12J Operator: EREC/Balcron

BOD WI: 79.78%  
Location: SW SW Section 12, T9S, R16E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte  
PTD: 5,750' Green River Oil - Dev.

---TIGHT HOLE---

11-25-93 TD: 1,535' (965') Day 2  
Formation: Uintah  
MW 8.3 VIS 26  
Present Operation: Drilling  
Drill, survey, repair air lines, thaw out flow line, change air  
head rubber & drill ahead.  
DC: \$12,778 CC: \$45,289

11-26-93 TD: 2,660' (1,125') Day 3  
Formation: Green River  
MW 8.3 VIS 26  
Present Operation: Drilling  
Drill, survey, keep everything thawed out.  
DC: \$14,532 CC: \$59,821

Page 1 of 3

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 11/30/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\***

**BALCRON MONUMENT FEDERAL #31-7J** Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: NW NE Section 7, T9S, R17E  
 Duchesne County, Utah  
 Prospect: Jonah Unit/Monument Butte Field  
 PTD: 5,700' Green River Oil - Dev.

---TIGHT HOLE---

11-30-93 TD: 3,461' (831') Day 4  
 Formation: Green River  
 MW 8.3 VIS 26  
 Present Operation: Drilling  
 Drill, survey, & clean on rig.  
 DC: \$10,892 CC: \$80,527

**BALCRON MONUMENT FEDERAL #42-1J** Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: SE NE Section 1, T9S, 16E  
 Duchesne County, Utah  
 Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

11-29-93 Completion  
 RU Schlumberger to perf 4779'-82' (2 SPF) & 4935'-38' (2 SPF). RD Schlumberger. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN, 156 jts 2-7/8" tbg. Set packer @ 4670' KB. RU Western to do KCL break down refer to treatment report. Reset BP @ 4815' KB. Set packer @ 4715' KB. RU Western to do KCL break down on perfs 4779'-82' refer to treatment report. Release packer, retrieve BP, reset BP @ 5001' KB, TOOH w/tbg, packer & retrieving head. SWIFN.  
 DC: \$7,991

**BALCRON MONUMENT FEDERAL #14-12J** Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: SW SW Section 12, T9S, R16E  
 Duchesne County, Utah  
 Prospect: Jonah Unit/Monument Butte  
 PTD: 5,750' Green River Oil - Dev.

---TIGHT HOLE---

11-30-93 TD: 5,620' (333') Day 7  
 Formation: Blue Zone  
 MW 8.3 VIS 26  
 Present Operation: Drilling  
 Drill, clean rig load hole & circ. Trip for bit & drill ahead.  
 DC: \$5,311 CC: \$101,412

# Balcron Oil

## DAILY OPERATING REPORT

DATE: 12/1/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\***

BALCRON MONUMENT FEDERAL #42-1J Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: SE NE Section 1, T9S, 16E  
 Duchesne County, Utah  
 Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

11-30-93 Completion  
 RU Western to frac 4779'-82' & 4935'-38 see treatment report. RD  
 Western. SWIFN.  
 DC: \$19,769

BALCRON MONUMENT FEDERAL #23-15 Operator: Balcron/EREC  
 BOD WI: 79.78%  
 Location: NE SW Section 15, T9S, R16E  
 Duchesne County, Utah  
 Prospect: Monument Butte

---TIGHT HOLE---

11-30-93 Completion  
 Start unit pumping @ 12:10 p.m. 5 SPM & 77" stroke.  
 Dc: \$31,320

BALCRON MONUMENT FEDERAL #14-12J Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: SW SW Section 12, T9S, R16E  
 Duchesne County, Utah  
 Prospect: Jonah Unit/Monument Butte  
 PTD: 5,750' Green River Oil - Dev.

12-1-93 TD: 5,750' (130') Day 8  
 Formation: Green River  
 MW 8.4 VIS 26  
 Present Operation: Pressure test pipe rams  
 Drill, circ for logs, TOH, log well by Schlumberger, LD drill pipe  
 & collars. Change 4-1/2" pipe rams to 5-1/2" csg rams & test.  
 DC: \$17,836 CC: \$119,248

BALCRON MONUMENT FEDERAL #31-7J Operator: EREC/Balcron  
 BOD WI: 79.78%  
 Location: NW NE Section 7, T9S, R17E  
 Duchesne County, Utah  
 Prospect: Jonah Unit/Monument Butte Field  
 PTD: 5,700' Green River Oil - Dev.

12-1-93 TD: 4,028' (567') Day 5  
 Formation: Yellow Zone  
 MW 8.4 VIS 26  
 Present Operation: Drilling  
 Drill, survey, trip for hole in pipe 30 stds down. Drill ahead.  
 DC: \$10,199 CC: \$90,726

BALCRON MONUMENT FEDERAL #31-7J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-3-93 TD:4,932' (396') day 7

Formation: Green Zone

MW 8.4 VIS 26

Present Operation: Drilling

Drill, survey, trip for pressure loss, find 2 holes & one washed  
box. Change bit & trip in & drill ahead.

DC: \$6,095

CC: \$104,176

DAILY OPERATING REPORT

BALCORN MONUMENT FEDERAL #31-7J  
Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

---TIGHT HOLE---

12-4-93 TD: 5,487' (555') Day 8  
Formation: Blue Zone  
MW 8.4 VIS 26  
Present Operation: Drilling  
Drill, survey, & clean on rig.  
DC: \$8,184 CC: \$112,360

12-5-93 TD: 5,700' (213') Day 9  
Formation: Green River  
MW 8.4 VIS 26  
Present Operation: TIH.  
Drill, trip for hole in pipe 20 stds down. Drill, circ  
for logs, TOH for logs, & log well. TIH.  
DC: \$18,052 CC: \$130,412

12-6-93 TD: 5,700' (0') Day 10  
Formation: Green River  
Present Operation: Rig Down & Stack Out  
TIH, circulate, LD drill pipe & collars.  
Change 4-1/2 rams to 5-1/2 rams in BOP. Test  
to 2000#, ok. Run 5-1/2" csg. Cement by  
Dowell with 132 sxs Hilift tailed with 239 sxs  
Class "G". Set slips, ND, clean mud tank.

Guide Shoe .60'  
1 jt 5-1/2", 15.50#, K-55 shoe jt. 45.42'  
Float Collar 1.10'  
131 jts 5-1/2", 15.50#, K-55 csg 5632.74'  
5679.86'  
Landing joint 12.00'  
Set at 5691.86'  
PBT 5644.74'

DC: \$60,747 CC: \$191,159

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #31-7J

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

---TIGHT HOLE---

- 12-4-93 TD: 5,487' (555') Day 8  
Formation: Blue Zone  
MW 8.4 VIS 26  
Present Operation: Drilling  
Drill, survey, & clean on rig.  
DC: \$8,184 CC: \$112,360
- 12-5-93 TD: 5,700' (213') Day 9  
Formation: Green River  
MW 8.4 VIS 26  
Present Operation: TIH.  
Drill, trip for hole in pipe 20 stds down. Drill, circ  
for logs, TOH for logs, & log well. TIH.  
DC: \$18,052 CC: \$130,412
- 12-6-93 TD: 5,700' (0') Day 10  
Formation: Green River  
Present Operation: Rig Down & Stack Out  
TIH, circulate, LD drill pipe & collars.  
Change 4-1/2 rams to 5-1/2 rams in BOP. Test  
to 2000#, ok. Run 5-1/2" csg. Cement by  
Dowell with 132 sxs Hilift tailed with 239 sxs  
Class "G". Set slips, ND, clean mud tank.
- Guide Shoe .60'  
1 jt 5-1/2", 15.50#, K-55 shoe jt.45.42'  
Float Collar 1.10'  
131 jts 5-1/2", 15.50#, K-55 csg 5632.74'  
5679.86'  
Landing joint 12.00'  
Set at 5691.86'  
PBTDS 5644.74'
- 12-7-93 DC: \$60,747 CC: \$191,159  
Completion  
Grade location, set rig anchors, MI tanks & pump. MIRU  
Basin Well Service Rig #2. NU Well head, NU BOP. TIH  
w/4-3/4" bit, 5-1/2" scraper, & 182 jts 2-7/8" EUE tbg.  
Tag PBTDS @ 5645' KB. Circ hole clean w/126 bbls 2% KCL  
wtr. Pressure test csg & BOP to 1000 psi = OK. TOOH  
w/tbg & tools. SWIFN.  
DC: \$20,506



**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Memphis, TN 38104-1017

TREATMENT REPORT

Well Name Monument Red, 31-7 J Date of Treatment: 12-8-93  
 Field Monument Basin County Duchesne State Utah  
 Formation/Perforations: Green River / 5080-86, 5100-5106

Treatment type: KCL BREAK DOWN Total Number of Holes: 24  
 Treatment Company: WESTERN

Volume	Fluid	Conc.	Sand Characteristics	
			Size	Volume
Gal.				
Gal.				#

TOTAL FLUID PUMPED: \_\_\_\_\_ gal. \_\_\_\_\_ %  
1974 gal. 2% KCL WATER Acid fluid

TOTAL SAND VOL.: \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ bauxite

Flushed well with \_\_\_\_\_ gal. of \_\_\_\_\_  
48 ball sealers were pumped. Was ball action seen? HIT HIT 12 Y.N.  
 Barrels of Load to Recover 47 BLTR.

Avg. Treating Pressure = 2200 psi, max = 5000 psi, min = 2100 psi.  
 Avg. Treating Rate = 4.0 bpm, max = 4.0 bpm, min = 4.0 bpm.  
 ISIP = 1500 psi, 5 min. = \_\_\_\_\_ psi, 10 min. = \_\_\_\_\_ psi, 15 min. = \_\_\_\_\_ psi.  
 Well will be shut in for 0 hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 3200 PSI AT 1.6 BPM, BACK TO 2200 PSI AT 4.0 BPM  
SURGE BALL OFF, PUMP FOR RATE, 4.5 BPM AT 2400 PSI



# EQUITABLE RESOURCES ENERGY COMPANY

BACALRON OIL DIVISION  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104-1017

## TREATMENT REPORT

Well Name Monument Fed. 31-7 J Date of Treatment: 12-8-93  
 Field Monument Butte County Duchesne State Utah  
 SEC. 7 TWN. 9 S RNG. 17 E

Formation/Perforations: Green River / 5050-55, 5062-64

Treatment type: KCL BREAK DOWN Total Number of Holes: 14  
 Treatment Company: WESTERN

Volume	Fluid	Conc.	Sand Characteristics	
			Size	Volume
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #

TOTAL FLUID PUMPED: \_\_\_\_\_ gal. \_\_\_\_\_ % \_\_\_\_\_  
1690 gal. 2% KCL WATER Acid fluid

TOTAL SAND VOL. : \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ bauxite

Flushed well with \_\_\_\_\_ gal. of 2% KCL WATER  
26 ball sealers were pumped. Was ball action seen? YH11 YES.  
 Barrels of Load to Recover 40 BLTR.

Avg. Treating Pressure = 1800 psi, max = 5000 psi, min = 1600 psi.  
 Avg. Treating Rate = 3.9 bpm, max = 4.1 bpm, min = 3.6 bpm.  
 ISIP = 1100 psi, 5 min. = \_\_\_\_\_ psi, 10 min. = \_\_\_\_\_ psi, 15 min. = \_\_\_\_\_ psi.  
 Well will be shut in for 0 hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 4100 PSI AT 1.5 BPM, BACK TO 1100 PSI AT 3.6 BPM  
SURGE BALLS OFF, PUMP FOR RATE, 3.9 BPM AT 2900 PSI

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 12/9/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\*****BALCRON MONUMENT FEDERAL #24-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-9-93 TD: 5,700' (64') Day 6  
Formation: Green River  
MW 8.4 VIS 26  
Present Operation: WO float collar.  
Drill, load hole w/fluid & circ, trip out for logs. Log well, TIH,  
LD drill pipe & collars. Test pipe rams to 2000# - OK. Run 5-1/2"  
csg, cross thread jt in float collar. WO float collar.  
DC: \$19,342 CC: \$120,358

**BALCRON MONUMENT FEDERAL #14-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW SW Section 12, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

12-8-93 Completion  
CP - 0. Pull up to 4373' KB, set BP. TOOH w/tbg & tools. RU  
Schlumberger to perf 4097'-4104' (5 holes) & 4299'-4308' (6 holes).  
TIH w/retrieving tool, 1 jts 2-7/8" tbg, 5-1/2" HD packer, SN & 136  
jts 2-7/8" tbg. Set packer @ 4244' KB EOT 4279' KB. RU  
Halliburton to do KCL break down on 4299'-4308' refer to treatment  
report. Reset BP @ 4161' KB, set packer @ 4032' KB, EOT 4067' KB.  
Do KCL break down on 4097'-4104' refer to treatment report. RD  
Halliburton. Release BP, reset BP @ 4373' KB. TOOH w/tbg &  
packer. SWIFN.  
DC: \$2,442

**BALCRON MONUMENT FEDERAL #31-7J**

Operator: EREC/Balcron

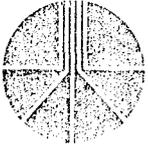
BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-8-93 Completion  
RU Schlumberger to run CBL & perforate 5050'-55', 5062'-64', 5080'-  
86', & 5100'-06' (2 SPF). Cmt top 1830' KB. RD Schlumberger. TIH  
5-1/2" RBP, retrieving head, HD packer, SN & 163 jts 2-7/8" tbg,  
set BP 5072' KB, packer @ 5021' KB, EOT 5026' KB. RU Western to  
break down 5050'-55 & 5062'-64' refer to treatment report. Reset  
BP @ 5140' KB, set packer @ 5072' KB EOT @ 5077' KB. Break down  
5080'-86' & 5100'-06' refer to treatment report. TOOH w/tbg &  
packer. SWIFN.  
DC: \$7,817



EQUITABLE RESOURCES  
ENERGY COMPANY

**BALCRON OIL DIVISION**

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

RECEIVED

DEC 09 1993

DIVISION OF  
OIL, GAS & MINING

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

December 6, 1993

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

Gentlemen:

RE: Balcron Monument Federal #31-7J  
NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Enclosed is our sundry notice regarding using a completion rig to complete the referenced well.

Sincerely,

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
DEC 09 1993

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

CONFIDENTIAL

5. Lease Designation and Serial No.  
U-44426

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.  
Balcron Monument Fed. #31-7J

9. API Well No.  
43-013-31405

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

11. County or Parish, State  
Duchesne County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

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

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

NW NE Section 7, T9S, R17E  
831.18' FNL, 1782.38' FEL

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

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

Operator will be using a completion rig to complete this well.

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

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date December 6, 1993

(This space for Federal or State office use)

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

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

\*See Instruction on Reverse Side



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
BALCRON OIL DIVISION  
1621 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104-1017

TREATMENT REPORT

Well Name Monument Fed 31-7 J Date of Treatment: 12-9-93  
 Field Monument Butte County Duchesne State Utah  
 Formation/Perforations: Green River / 5050-55, 5062-64, 5080-86, 5100-06

Treatment type: sand frac. w/HCl Total Number of Holes: 38

Volume	Fluid	Conc.	Sand Characteristics				
			Size		Volume		
Gal.			PSI	BPM			
Gal.					PSI	BPM	
8000	Gal. 2% KCL WATER	0	2600	26.2	2950	16.9	SHUT DOWN W/ACID
1000	Gal. "	2#	2880	25.0	2830	24.5	
1500	Gal. "	3#	2890	24.4	20140		2000 #
1500	Gal. "	4#	2810	25.6	20140		4500 #
2000	Gal. "	5#	2690	25.5	20140		6000 #
1000	Gal. "	6#	2490	25.5	20140		10000 #
2000	Gal. "	6#	2470	25.5	16130		6000 #
1000	Gal. "	7#	2420	25.4	16130		12000 #
4990	Gal. "	0	2390	26.2	1700	28.4	13000 #

TOTAL FLUID PUMPED: 7000 gal. 15% HCl Acid fluid  
30000 gal. 2% KCL WATER  
 TOTAL SAND VOL.: 25000 lbs. 20140 sand  
25000 lbs. 16130 sand  
 lbs. 1 sand  
 lbs. 1 bauxite

Flushed well with 4990 gal. of 2% KCL WATER  
ball sealers were pumped. Was ball action seen?             
 Barrels of Load to Recover 976 BLTR.  
 Avg. Treating Pressure = 2470 psi, max = 2890 psi, min = 2340 psi.  
 Avg. Treating Rate = 24.7 bpm, max = 26.2 bpm, min = 24.4 bpm.  
 ISIP = 2300 psi, 5 min. = 1990 psi, 10 min. = 1970 psi, 15 min. = 1920 psi.  
 Well will be shut in for 17 hrs. before bringing back fluid.

REMARKS: SHUT DOWN IN PAD. 183 Proc. Gradent.  
Call for HCl 1000 gal.



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

TREATMENT REPORT

Date of Treatment: 12-9-93  
Well Name Monument Fed 31-7 J SEC. 7 TWN. 9 S RNG 17 E  
Field Monument Butte County Duchesne State Utah  
Formation/Perforations: Green River / 5050-55, 5062-64, 5080-86, 5100-06

Treatment type: sand FRAC. w/HCl Total Number of Holes: 38

Volume	Fluid	Conc.	Sand Characteristics				
			Size		Volume		
Gal.			psi	bpm			
Gal.					psi	bpm	
<u>8000</u>	<u>2% KCL WATER</u>	<u>0</u>	<u>2600</u>	<u>26.2</u>	<u>2950</u>	<u>16.9</u>	<u>SHUT DOWN W/ACID</u>
<u>1000</u>	<u>"</u>	<u>2#</u>	<u>2880</u>	<u>25.0</u>	<u>2830</u>	<u>24.5</u>	<u>2000 #</u>
<u>1500</u>	<u>"</u>	<u>3#</u>	<u>2890</u>	<u>24.4</u>	<u>20140</u>		<u>4500 #</u>
<u>1500</u>	<u>"</u>	<u>4#</u>	<u>2810</u>	<u>25.6</u>	<u>20140</u>		<u>6000 #</u>
<u>2000</u>	<u>"</u>	<u>5#</u>	<u>2690</u>	<u>25.5</u>	<u>20140</u>		<u>10000 #</u>
<u>1000</u>	<u>"</u>	<u>6#</u>	<u>2590</u>	<u>25.5</u>	<u>20140</u>		<u>6000 #</u>
<u>2000</u>	<u>"</u>	<u>6#</u>	<u>2570</u>	<u>25.5</u>	<u>16130</u>		<u>12000 #</u>
<u>1000</u>	<u>"</u>	<u>7#</u>	<u>2420</u>	<u>25.4</u>	<u>16130</u>		<u>13000 #</u>
<u>4990</u>	<u>"</u>	<u>0</u>	<u>2300</u>	<u>25.2</u>	<u>2700</u>	<u>28.4</u>	<u>1</u>

TOTAL FLUID PUMPED: 7000 gal. 15% HCl Acid fluid  
3000 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: 25000 lbs. 20140 sand  
25000 lbs. 16130 sand  
lbs. 1 sand  
lbs. 1 bauxite

Flushed well with 4990 gal. of 2% KCL WATER  
ball sealers were pumped. Was ball action seen?                     

Barrels of Load to Recover 916 BLTR.  
Avg. Treating Pressure = 2470 psi, max = 2890 psi, min = 2340 psi.  
Avg. Treating Rate = 24.7 bpm, max = 26.2 bpm, min = 24.4 bpm.  
ISIP = 2300 psi, 5 min. = 1990 psi, 10 min. = 1970 psi, 15 min. = 1920 psi.  
Well will be shut in for 17 hrs. before bringing back fluid.

REMARKS: SHUT DOWN IN PAD. 83 proc. Gradient.  
Call for HCl 1000 gal.

BALCRON MONUMENT FEDERAL #24-12J Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: SE SW Section 12, T9S, R16E  
Duchesne County, Utah  
Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

No report at report time.

BALCRON MONUMENT FEDERAL #14-12J Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: SW SW Section 12, T9S, R16E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

No report at report time.

BALCRON MONUMENT FEDERAL #31-7J Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

No report at report time.



**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1001 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59106-1017

TREATMENT REPORT

Date of Treatment: 12-13-93  
 Well Name Monument Fed. 31-7 J SEC. 7 TWN. 9S RNG. 17E  
 Field Monument Butte County Duchesne State Utah  
 Formation/Perforations: Green River/4903-10, 4914-17

Treatment type: KCL WESTERN BREAK DOWN Total Number of Holes: 20

Volume	Fluid	Conc.	Sand Characteristics	
			Size	Volume
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #
_____ Gal.	_____	_____	_____	_____ #

TOTAL FLUID PUMPED: \_\_\_\_\_ gal. \_\_\_\_\_ % Acid fluid  
3024 gal. 2% KCL WATER

TOTAL SAND VOL.: \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
 \_\_\_\_\_ lbs. \_\_\_\_\_ bauxite

Flushed well with \_\_\_\_\_ gal. of 2% KCL WATER  
40 ball sealers were pumped. Was ball action seen? Y/N Y/N Y/N  
 Barrels of Load to Recover 72 BLTR.

Avg. Treating Pressure = 2400 psl, max = 5000 psl, min = 2200 psl.  
 Avg. Treating Rate = 4.0 bpm, max = 4.8 bpm, min = 3.7 bpm.  
 ISIP = 1500 psl, 5 min. = 1100 psl, 10 min. = \_\_\_\_\_ psl, 15 min. = \_\_\_\_\_ psl.  
 Well will be shut in for 28 hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 3700 PSI AT 3.0 BPM, BACK TO 2200 PSI AT 4.8 BPM,  
SURGE PUMP OFF, PUMP FLOW RATE 4.8 BPM AT 2500 PSI

PRESS. TEST SURFACE EQUIP. TO 6000 PSI, OK

*D. A. [Signature]*

**BALCRON MONUMENT FEDERAL #14-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW SW Section 12, T9S, R16E

Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

12-10-93 Completion

CP - 1450 psi. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN & 2-7/8" tbg. Tag sand @ 4120' KB, circ down to 4373' KB (BP). Circ hole clean, set packer @ 4032' KB. Made 18 swab runs, fluid level stable @ 1700' while swabbing, no sand on last 3 swab runs. Recovered 108 BF, 5% oil, 95% wtr. Circ hole clean to BP, circ w/93 BW. Release BP, POOH to 4090' KB, circ well clean w/69 BW. TOOH w/139 jts 2-7/8" tbg, SN, 5-1/2" HD packer, 1 jt 2-7/8" tbg, retrieving head & 5-1/2" RBP. RU Cutter Wireline to run GR log for sand frac trace. RD Cutter. SWIFN.  
DC: \$12,077

12-11-93 Completion

CP - 15 psi. TIH w/following:

1 jt 2-7/8" tbg EUE, J-55 6.5#

one 2-7/8" x 3' perf sub

one seat nipple

164 jts 2-7/8" tbg EUE J-55, 6.5#

	Length	Depth KB
1 jt 2-7/8" tbg EUE, J-55 6.5#	31.35'	5150.12'
one 2-7/8" x 3' perf sub	3.20'	5118.77'
one seat nipple	1.10'	5115.57'
164 jts 2-7/8" tbg EUE J-55, 6.5#	5104.47'	5114.47'

ND BOP, NU wellhead, TIH w/production rod string. Pump #1023, 1 BHP, 2-1/2" x 1-1/2" x 16' RWAC w/PA Plunger (TRICO), 202 3/4" x 25' plain rods D-61 (TRICO), one 3/4" x 4' pony, one 1-1/4" x 22' Polish rods SM (TRICO). SWI.

DC: \$1,725

**BALCRON MONUMENT FEDERAL #31-7J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E

Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-10-93 Completion

CP - 650 psi, Bleed well down. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN & 163 jts 2-7/8" tbg. Tag sand @ 5088' KB, circ down to 5135' KB, set packer @ 4990' KB. Made 22 swab runs, recovered 70 BF, 21 BO, 49 BW. Release packer, circ sand out down to BP. Release BP, reset BP @ 4975' KB, BP did not hold on pressure test. Release BP & TOOH w/105 jts tbg. SWIFN.

DC: \$2,051

12-11-93 Completion

CP - 0; TP - 0. TOOH w/58 jts 2-7/8" tbg, SN, 5-1/2" HD packer, 1 jt 2-7/8" tbg retrieving head & 5-1/2" RBP. TIH w/RBP, retrieving head, SN, & 161 jts 2-7/8" tbg, set BP @ 4980' KB, pressure test BP to 1000 psi - OK. TOOH w/tbg & retrieving head. SWIFD.

DC: \$2,735

12-13-93 Completion

RU Schlumberger to perf 4903'-10' (2 SPF). RD Schlumberger. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN & 156 jts 2-7/8" tbg, set packer @ 4867' KB. RU Western to do KCL break down refer to treatment report. TOOH w/tbg & packer. SWIFD.

DC: \$6,543



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

TREATMENT REPORT

Date of Treatment: 12-14-93

Well Name Monument Fed. 31-7 J SEC. 7 TWN. 9 S RNG. 17 E  
Field Monument Butte County Duchesne State Utah

Formation/Perforations: Green River / 4903-10, 4914-17

Treatment type: SAND FRAC

Total Number of Holes: 20

Treatment Company: WESTERN

Sand Characteristics

Volume	Fluid	Conc.	Size		Volume
Gal.			PSI	BPM	
<u>500</u>	<u>Gal. 15% HCL</u>		<u>2390</u>	<u>19.1</u>	
<u>4000</u>	<u>Gal. 2% KCL WATER</u>	<u>0</u>	<u>2450</u>	<u>19.3</u>	
<u>500</u>	<u>Gal. "</u>	<u>2#</u>	<u>2300</u>	<u>19.4</u>	<u>16130</u> <u>1000</u> #
<u>900</u>	<u>Gal. "</u>	<u>3#</u>	<u>2320</u>	<u>19.0</u>	<u>16130</u> <u>2700</u> #
<u>900</u>	<u>Gal. "</u>	<u>4#</u>	<u>2370</u>	<u>18.9</u>	<u>16130</u> <u>3600</u> #
<u>1300</u>	<u>Gal. "</u>	<u>5#</u>	<u>2470</u> <u>2410</u>	<u>18.8</u>	<u>16130</u> <u>6500</u> #
<u>1500</u>	<u>Gal. "</u>	<u>6#</u>	<u>2320</u>	<u>18.8</u>	<u>16130</u> <u>9000</u> #
<u>9900</u>	<u>Gal. "</u>	<u>7#</u>	<u>2200</u>	<u>18.9</u>	<u>16130</u> #
<u>6300</u>	<u>Gal. "</u>	<u>0</u>	<u>2120</u> <u>2200</u>	<u>18.8</u>	<u>1 SCREEN OUT</u> #
	<u>Gal.</u>				<u>1</u> #

TOTAL FLUID PUMPED: 500 gal. 15% HCL Acid fluid  
gal. 2% KCL WATER

TOTAL SAND VOL.: 30300 lbs. 16130 sand  
lbs. 1 sand  
lbs. 1 sand  
lbs. 1 bauxite

Flushed well with gal. of 2% KCL WATER

ball sealers were pumped. Was ball action seen? \_\_\_\_\_

Barrels of Load to Recover 376 BUTR.

Avg. Treating Pressure = 2400 psi, max = 3200 psi, min = 2120 psi.

Avg. Treating Rate = 19.0 bpm, max = 19.7 bpm, min = 18.8 bpm.

ISIP = 3200 psi, 5 min. = 1660 psi, 10 min. = 1490 psi, 15 min. = 1300 psi.

Well will be shut in for 14 hrs. before bringing back fluid.

REMARKS: SCREENED OUT W/ 3300 LB. OF 7# ON FORMATION.

3000 # OF SAND IN CASING.

19 BBS IN CAS.

Well site Supervisor: Dale Whittle

Page 1 of 3

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 12/15/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\*****BALCRON MONUMENT FEDERAL #24-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-14-93

Completion

RU Dowell to frac 5476'-85' refer to treatment report. Pressure test surface equipment to 4000 psi - OK. Screen out. RD Dowell. SWIFD.

DC: \$20,220

**BALCRON MONUMENT FEDERAL #31-7J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-14-93

Completion

RU Western to frac 4903'-10', 4914'-17'. Pressure test surface equipment to 4000 psi - OK refer to treatment report. Screen out. RD Western. SWIFD.

DC: \$19,296

**BALCRON MONUMENT FEDERAL #41-14J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-15-93

TD: 4,602' (978') Day 5

Formation: Yellow Zone

MW 8.4 VIS 26

Present Operation: Drilling

Drill, survey, &amp; clean on rig.

DC: \$13,955

CC: \$93,808

Page 1 of 1

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 12/16/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\*****BALCRON MONUMENT FEDERAL #24-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-15-93 Completion

CP - 920 psi. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN, & 109 jts 2-7/8" tbg. Tag sand @ 3394' KB, circ down to 5526' KB. Pull up & set apcker @ 5425' KB. Made 8 swab runs. Recovered 46 BW, heavy sand. SWIFN.

DC: \$4,446

**BALCRON MONUMENT FEDERAL #31-7J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-15-93 Completion

TIH w/retrieving tool, 1 jt 2-7/8" tbg, 5-1/2" HD packer, seat nipple, & 145 jts 2-7/8" tbg. Tag sand @ 4488' KB, circ down to 4970' KB. Pull up & set packer @ 4867' KB. Made 17 swab runs, recovered 70 BF, 13 BO, 57 BW. Last 2 runs, no sand. Release packer. SWIFN.

DC: \$1,903

**BALCRON MONUMENT FEDERAL #41-14J**

Operator: EREC/Baclron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-16-93 TD: 5,098' (418') Day 6

Formation: Green Zone

MW 8.4 VIS 26

Present Operation: Drilling

Drill, trip for bit, had to ream 3050'-3090'. Going back in hole, ream 100' to btm. 1" of snow.

DC: \$7,004

CC: \$100,812

**Balcron Oil**  
**DAILY OPERATING REPORT**

DATE: 12/17/93

**\*\*JONAH UNIT PARTNERS' DAILY REPORT\*\***

**BALCRON MONUMENT FEDERAL #24-12J** Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: SE SW Section 12, T9S, R16E  
Duchesne County, Utah  
Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-16-93 Completion  
CP - 25 psi. Flow back 10 BW, 2 BO. Made 24 swab runs, recovered 144 bbls fluid, trace oil, 144 BW. Last 3 runs, fluid stable @ 2700', no sand. Release packer, tag sand @ 5516' KB, circ down to 5526' KB. Release BP, reset BP @ 4810' KB, pressure test BP - OK. TOOH w/tbg, SN, packer & retrieving head. RU Cutter to perf 4746'-50' (2 SPF). RD Cutter. TIH w/retrieving head, 1 jt tbg, 5-1/2" HD packer, SN & 150 jts 2-7/8" tbg. SWIFN.  
DC: \$2,888

**BALCRON MONUMENT FEDERAL #31-7J** Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-16-93 Completion  
CP - 150 psi, bleed well off. TIH & tag sand @ 4920', circ down to 4980'. Release BP, TOOH w/tbg, BP & packer. TIH w/production string as follows:

	<u>Length</u>	<u>Depth KB</u>
1 jt 2-7/8" tbg EUE J-55 8RD 6.5#	31.29'	5192.00'
1 perf sub 2-7/8" x 4'	4.00'	5160.71'
1 seat nipple	1.15'	5156.71'
166 jts tbg 2-7/8" EUE J-55 8RD 6.5#	5142.56'	5155.56'
KB	13.00'	

ND BOP, NU wellhead. TIH w/BHP 2-1/2" x 1-1/2" x 16' FWAC w/PA plunger, pump #1025 (TRICO), 128 3/4" x 25' plain rods D-61 (TRICO). SWIFN.  
DC: \$15,505

**BALCRON MONUMENT FEDERAL #41-14J** Operator: EREC/Balcron  
BOD WI: 79.78%  
Location: NE NE Section 14, T9S, R16E  
Duchesne County, Utah  
Prospect: Jonah Unit / Monument Butte

12-17-93 TD: 5,698' (600') Day 7  
Formation: Green River  
MW 8.4 VIS 26  
Present Operation: Logging  
Drill, survey, blow hole, load hole & circ for logs. TOH for logs, logging. Schlumberger couldn't make it, had to call Halliburton.  
DC: \$11,295 CC: \$112,107

BALCRON MONUMENT FEDERAL #14-12JOperator: EREC/Balcron  
BOD WI: 79.78%

Location: SW SW Section 12, T9S, R16E

---TIGHT HOLE---

Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte

12-18-93 Completion

Start well pumping 86" stroke, 5 SPM. Pumping Unit: Lufkin -  
LM228-D-213-86E, S/N B129-374A525029 (Lufkin Texas). Engine: Ajax  
E-42, S/N 24227 (Karst).  
DC: \$28,587BALCRON MONUMENT FEDERAL #31-7JOperator: EREC/Balcron  
BOD WI: 79.78%Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

---TIGHT HOLE---

Prospect: Jonah Unit/Monument Butte Field

12-17-93 Completion

TIH w/76 3/4" x 25' plain rods, two 3/4" x 8' ponies, one 3/4" x 4'  
pony, & one 1-1/2" x 22' polish rod. Test tbg & pump to 1000 psi -  
OK. Clamp rod off. RDMO. Rod string configuration: oenBHP 2-  
1/2" x 1-1/2" x 16' RWAC w/PA plunger, pump #1026 (Trico), 204 rods  
3/4" x 25' plain D-61 (Trico), two pony rods 3/4" x 8', one pony  
rods 3/4" x 4', & one polish rods 1-1/4" x 22' SM (Trico).  
DC: \$746

BALCRON MONUMENT FEDERAL #31-7J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E  
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-23-93 Completion

Start well pumping @ 5:30 p.m., 6-3/4 SPM, 72" stroke. Beam pump:  
CMI 320-305-120; S/N 5-07-52543 (Karst). Engine: Ajax E-42; S/N  
139296 (Karst).  
DC: \$30,787

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E  
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

12-21-93 Completion

MIRU Basin Well Service Rig #2. Install well head, NU BOP. TIH  
w/4-3/4" bit, 5-1/2" scraper & 179 jts 2-7/8" tbg. Tag PBTB, circ  
well clean w/130 bbls of 2% KCL wtr. TOOH w/tbg, scraper & bit.  
SWIFN.  
DC: \$20,804

12-22-93 Completion

RU Schlumberger to run CBL. Log from PBTB to 3500'. Skip & log  
360' to 80', cmt topo @ 210'. Perf 5043'-52' (2 SPF). RD  
Schlumberger. TIH w/5-1/2" RBP, retrieving tool, 1 jt 2-7/8" tbg,  
5-1/2" HD packer, SN & 164 jts 2-7/8" tbg. Set BP @ 5100' KB, set  
packer @ 4979' KB, EOT @ 5014' KB. RU Western to do HCL break down  
refer to treatment report. Pressure test surface equipment 6000  
psi = OK. TOOH w/tbg, SN, packer & retrieving tool. SWIFN.  
DC: \$6,908

12-23-93 Completion

CP - 30 psi. RU Western to frac 5043'-52' refer to treatment  
report. Screen out. RD Western. SWIFN.  
DC: \$19,760

12-24-93 Completion

CP - vac. TIH w/retrieving tool, 1 jt 2-7/8" tbg, 5-1/2" packer,  
SN, 79 jts 2-7/8" tbg, tag gel @ 1900' KB, circ down tp 2500' KB,  
tag sand. Circ down to 5090' KB (BP). Circ well clean w/129 bbls  
of 2% KCL wtr. SWI for week end.  
DC: \$2,281

**CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

DEC 29 1995

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

5. Lease Designation and Serial No.  
**U-44426**

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

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

8. Well Name and No.  
**Balcron Monument Fed. #31-7J**

9. API Well No.  
**43-013-31405**

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

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

1. Type of Well

- Oil Well
- Gas Well
- Other

2. Name of Operator

**Equitable Resources Energy Company, Balcron Oil Division**

3. Address and Telephone No.

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

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

**NW NE Section 7, T9S, R17E  
831.18' FNL, 1782.38' FEL**

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Report of First Production

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

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

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

First production on this well was on 12-23-93 at 5:30 p.m.

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

**Coordinator of Environmental  
and Regulatory Affairs**

Signed *Bobbie Schuman*

Title \_\_\_\_\_

Date 12-27-93

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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

\*See Instruction on Reverse Side

# WELL REPORT

**MONUMENT BUTTE FIELD**  
**Balcron Oil Co. 31-7J Monument Butte-Federal**  
**831' FNL, 1782' FEL, Sec. 7, T9S-R17E**  
**Duchesne County, Utah**  
43-013-31405

# CONFIDENTIAL

By

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

Oil & Gas Consulting

4924 Rimrock Road  
Billings, Montana 59106

(406) 656-4785

**WELLSITE GEOLOGIST'S REPORT**

**MONUMENT BUTTE FIELD**  
**Balcron Oil Co. 31-7J Monument Butte-Federal**  
**831' FNL, 1782' FEL, Sec. 7, T9S-R17E**  
**Duchesne County, Utah**

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**MICROFICHE**

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

Oil & Gas Exploration

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

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**MONUMENT BUTTE FIELD**  
**Balcron Oil Co. 31-7J Monument Butte-Federal**  
**831' FNL, 1782' FEL, Sec. 7, T9S-R17E**  
**Duchesne County, Utah**

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7	Surveys
8	Bit Record
9	Time/Depth Penetration Chart
10	Drilled Well Formation Tops
11	Reference Well Formation Tops
12	Significant Gas and Sample Shows
13	Sample Descriptions
Insert	Geologic Well Log

By:

DENNIS C. REHRIG

Consulting Geologist

For:

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

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**GENERAL REVIEW**

The Balcron Oil Co. 31-7J Monument Butte-Federal (NW $\frac{1}{4}$ NE $\frac{1}{4}$  S-7, T9S-R17E, Duchesne County, Utah) was drilled as an infill development well in the Monument Butte Field.

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

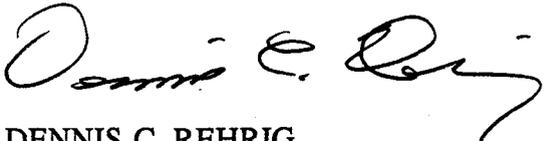
The surface hole was air drilled and surface casing was set prior to moving Molen Drilling Co. Rig No. 1 on location and spudding on November 26, 1993. A two-man mud logging unit and wellsite geologist were on site from 1200' to total depth. The Green River and Douglas Creek formations were penetrated at 1408' and 4578' making them respectively 7' high and 25' low structurally to the offset Alta Energy Corp. 7-C Getty (NE $\frac{1}{4}$ NW $\frac{1}{4}$  S-7, T9S-R17E) control well.

This well was drilled to 5700' (Driller) and 5696' (Logger).

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

The rotary was released 12/6/93.

Respectfully submitted,



DENNIS C. REHRIG

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**WELL DATA**

**OPERATOR:** Balcron Oil Company

**LEASE & WELL NO.:** Monument Butte-Federal 31-7J

**LOCATION:** 831' FNL, 1782' FEL, Sec. 7, T9S-R17E

**PROSPECT/FIELD:** Monument Butte Field

**COUNTY:** Duchesne

**STATE:** Utah

**BASIN:** Uintah

**WELL TYPE:** Development

**BASIS FOR PROSPECT:** Subsurface well control

**ELEVATIONS:** G.L. 5295', K.B. 5308'

**SPUD DATE:** 7:30 PM (MST) 11/26/93 (Rotary)

**OUT FROM UNDER  
SURFACE CASING:** 7:30 PM (MST) 11/26/93 (Surface casing previously set)

**DRILLING COMPLETED:** 6:30 PM (MST) 12/4/93

**LOGGING COMPLETED:** 5:30 AM (MST) 12/5/93

**RIG RELEASE:** 2:00 AM (MST) 12/6/93

**TOTAL DAYS SPUD  
THROUGH LOGGING:** 10 days

**TOTAL DEPTH:** 5,700' (Driller) 5,696' (Logger)

**TOTAL DRILLING DAYS:** 9 days (Surface casing previously set)

HOLE SIZE & CASING:

Hole Size

12¼" Surface to 282'  
7½" 282' to T.D.

Casing Size

8⅝" surface to 282' K.B.  
5½" Production Casing  
to 5,700 K.B.

WELL STATUS:

Cased for completion attempt in Douglas Creek.

PENETRATION:

273' below Carbonate Marker.

COMPANY DRILLING CONSULTANT:

Al Plunkett

DRILLING CONTRACTOR:

Molen Drilling Co.

RIG NO.:

1

TOOLPUSHER:

Chuck Doornek

RIG SPECIFICATIONS:

Draw Works – EMSCO GB-250T, powered by two  
Detroit 6-71 300 HP Diesels,  
Derrick – Idela, 104' mast.

BLOW OUT PREVENTER:

Make: Schaffer LWS. Type: 10" X 3000 lbs.  
Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XH.  
BHA: Length 763.82', 18 jts-6" DC- 521.08' &  
8 jts heavy weight pipe – 238.19'.  
Tool joints: 6¼" OD, Type – XH.

MUD PUMP:

No. 1 – EMSCO D-375, 14" Stroke 6" liner.

MUD COMPANY:

Unibar Drilling Fluids, Inc.  
Operator bought products and drilling contractor  
mixed as needed.

MUD PROGRAM:

KCl/water 282' – Total Depth

ELECTRIC OPEN-HOLE  
LOGGING PROGRAM:

Schlumberger Well Services  
Engineer: Ray Heath  
Witnessed by: Dennis Rehrig and Al Plunkett  
– Dual Laterolog Micro-SFL w/ Caliper, Gamma  
Ray, SP, and Tension Curve (280'-5695')  
– Compensated Neutron/Litho-Density with Caliper,  
Gamma Ray & Tension Curve (3700'-5664')

LOST CIRCULATION ZONE  
OR DRILLING PROBLEMS:

None observed.

WELLSITE GEOLOGIST:

Dennis C. Rehrig

SAMPLING PROGRAM: 50' Samples from 1,200'-3,900'.  
30' Samples from 3,900'-Total Depth,  
except caught extra samples through  
drilling breaks and/or mudlog shows.

SAMPLE QUALITY: Generally good unless noted otherwise.

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

MUD LOGGING EQUIPMENT: Mountain States Well Logging Co. - two man unit  
John Oleson and John Price.

CORE PROGRAM: None.

DRILL STEM TEST: None.

SURFACE CASING: 8 $\frac{3}{8}$ " New, 24 wt, Gr-J, 6 jts,  
Surface - 282' K.B. Surface hole drilled and  
casing set by small air-impact rig. Details of  
cement job unknown.

PRODUCTION CASING: Ran 5 $\frac{1}{2}$ " casing to 5700'. Plug down @ 10:00 PM  
12/5/93. Other details of casing and cement not  
available for this report.

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**DAILY DRILLING HISTORY**

Daily drilling reports taken primarily from Rig Tower Sheets and supplemented by Drilling Supervisor.  
Day commenced at 8:00 AM (MST) day of prior day of report and ends at 8:00 AM (MST) day of report.

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					
1	11/27	429'	711'	12.50	0	11.50	1	20/35	75	625	Finish RU, nipple up, test BOPs, cut and slip drilling line, PU DC's and drill cement and shoe, drilling 7 $\frac{1}{8}$ " hole at 7:30 PM 11/26/93, survey, drilling.
2	11/28	1654'	943'	22.50	0.50	1.00	1	40	75	650	Drilling, survey, drilling, fix weight indicator, drilling, survey, drilling.
3	11/29	2663'	1009'	20.5	0.25	3.25	2	40	75	700	Drilling, service rig and check BOP, drilling, survey, drilling, TOH for lost pump pressure, didn't find hole in pipe, dress bit and TIH, drilling, survey, drilling.
4	11/30	3484'	821'	23.25	0.25	0.50	2	40	75	700	Service rig, check BOP, drilling, circ and survey, drilling.
5	12/1	4032'	548'	20.50	0.25	3.25	2	40	75	750	Drilling, survey, service rig, check BOP, drilling, TOH for lost pump pressure, hole in DP 30 stds down, TIH, drilling, survey, drilling.

5

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					
6	12/2	4545'	513'	20.25	0.25	3.00	2	40	75	725	Drilling, service rig, drilling, TOH - lost pump pressure, found hole in DP 6 stands out and 31 stands out, TIH, drilling.
7	12/3	4943'	398'	16.50	0.25	7.25	3	40	75	750	Survey, service rig, drilling, TOH for lost pump pressure, found hole or bad pipe @ 25th, 28th, 38th and 60th stands, TIH, drilling.
8	12/4	5500	557'	23.50	0	0.50	3	40	75	740	Drilling, survey, drilling.
9	12/5	5700	200'	8.25	0	15.75	3	40	75	800	Drilling, TOH-lost pump pressure, found hole in DP 20 stands out, TIH, drilling, circ for E-logs, TOH for E-logs, SLM-no correction, RU loggers and log, RD loggers, TIH.
10	12/6	5700	0	0	0	18.00	-	-	-	-	TIH, RU and LD DP and DC's, change rams, test 5½" rams - 10 mins @ 2000 psi, RU and run 5½" casing, circ, cement, plug down @ 10:00 PM 12/5/93, released rig @ 2:00 AM 12/6/93.

Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah

SURVEYS VERTICAL HOLE

<u>Drilling Depth</u>	<u>Degrees</u>
269'	¾°
800'	1½°
1049'	1¼°
1512'	1°
2007'	1½°
2502'	¾°
3027'	1¾°
3524'	2°
4016'	1½°
4543'	2°
5006'	1¾°
5700'	1½°

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

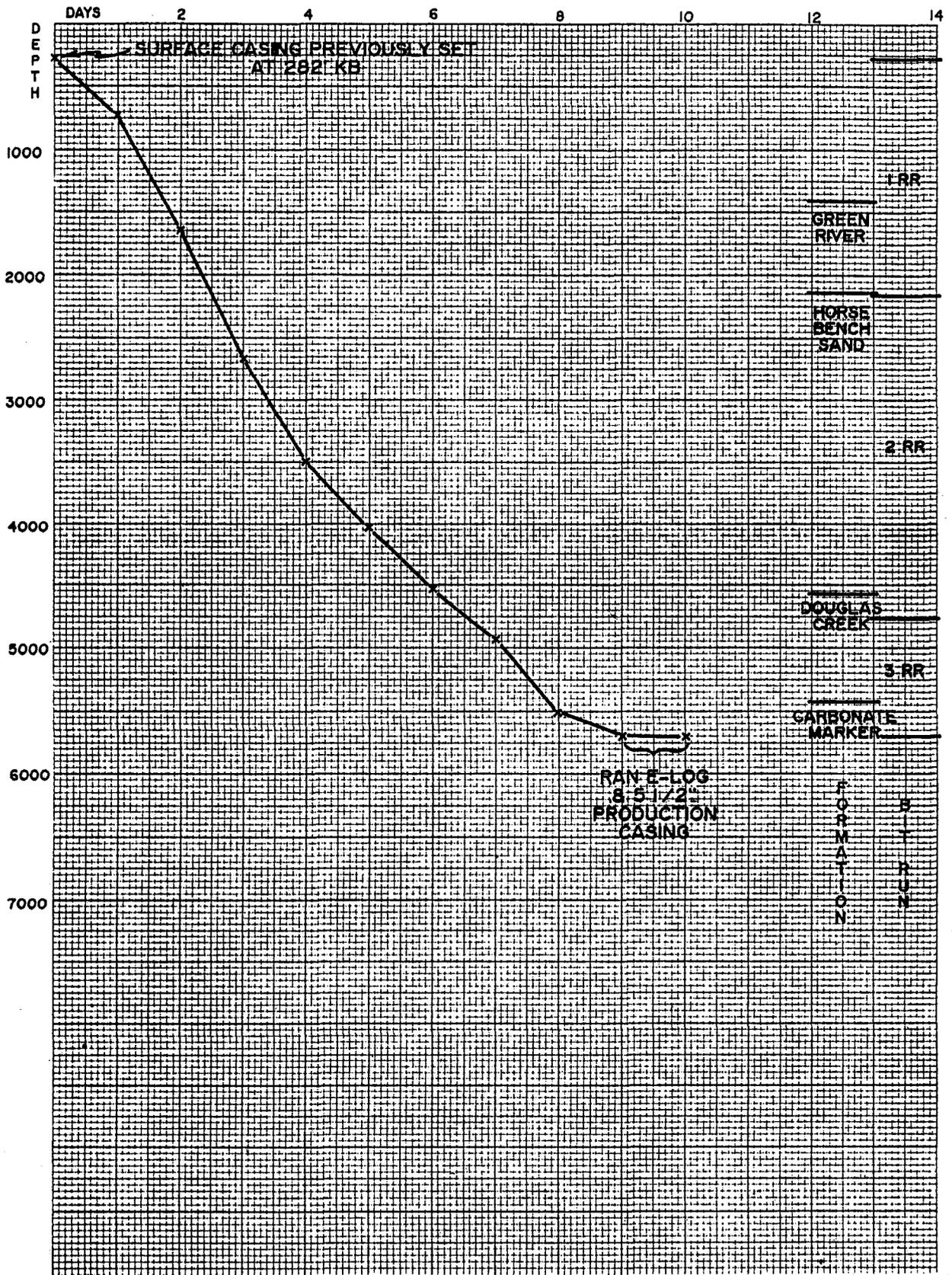
**BIT RECORD**

<b>Contractor:</b> Molen Drilling Co.	<b>Rig No. 1</b>	<b>Rig Make:</b> Emsco GB-250T	<b>Collars: ODxDxLength BHA</b>  6" x 2 1/4" x 763.82'	<b>SPUD</b> (for 7 1/4" hole)	11/26/93	<b>Toolpusher/Drillers</b> Chuck Doornek A. E. Cook Joe J. Wipf Calvin L. Clyde  <b>Operators Representative</b> Al Plunkett  <b>Mud Type: KCl/Water</b>
<b>Operator:</b> Balcron Oil Co.	<b>Field: Monument Butte</b>	<b>Derrick: Idela,</b> 104' mast	<b>Drill Pipe-Size Wt</b> 4 1/2" 16.6 E	<b>Under Surface</b> (rotary)	11/26/93	
<b>Lease: Federal</b>	<b>Well No. 31-7J</b>	_____	<b>Tool Joint: 6 1/4"</b>	<b>Total Depth</b>	12/4/93	
<b>State: Utah</b> <b>County: Duchesne</b> <b>Sec/T-ship/Range:</b> NWNE Sec. 7, T9S-R17E		<b>Pump #1: Emsco D-375</b> Liner 6" x 14"		<b>Total Days Drilling</b>	9	

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Bit No	Bit Size	Bit Mfr	Bit Type	Jet Size 32nds	Ser. No.	Depth Out	Feet	Hrs	Ft/ Hr	Cum Hrs	Wt 1000 #	Rotary RPM	Vert Dev	Pump Press	PUMPS			MUD		DULL COND			Remarks Date, Formation, etc.
															No	Liner ID	SPM	Wt	Vis	T	B	G	
1RR	7 1/4"	HTC	ATJ44	3-15	N06PY	2161	1879	44	40	44	40	75	1 1/4°	650	1	6"	53	KCl Wtr					
2RR	7 1/4"	SEC	M95F	3-15	562056	4765	2604	83	30	127	40	75	2°	750	1	6"	53	KCl Wtr		4	2	I	
3RR	7 1/4"	HTC	ATJ44	3-15	N06PY	5700	935	39 3/4	23 1/2	166.75	40	75	1 1/2°	800	1	6"	53	KCl Wtr					

BALCRON OIL 31-7J MONUMENT BUTTE-FEDERAL  
 83' FNL 1782' FEL, SECTION 7, T 9 S-R 17 E  
 DUCHESNE COUNTY, UTAH  
 TIME /DEPTH PENETRATION CURVE



**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**FORMATION TOPS**

ELEVATIONS: G.L. 5295', K.B. 5308'

FORMATION

	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Wells *</u>
Green River	1408'	(+3900')	7' Hi
Horsebench Sand	2146'	(+3162')	18' Lo
2nd Garden Gulch	3784'	(+1524')	25' Lo
Yellow Marker	4416'	(+ 892')	25' Lo
Douglas Creek	4578'	(+ 730')	25' Lo
2nd Douglas Creek Mkr	4819'	(+ 489')	23' Lo
Green Marker	4961'	(+ 347')	25' Lo
Carbonate Marker	5423'	(- 115')	NDE

TOTAL DEPTH: 5696' Logger

\* Reference Well:

Alta Energy Corp. 7-C Getty  
NE¼NW¼ Sec. 7, T9S-R17E  
Duchesne County, Utah

Note: Correlations and nomenclature that used by operator.

Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah

REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS

Alta Energy Corp.  
7-C Getty  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 7, T9S-R17E  
Duchesne County, Utah

K.B. 5333'

Formation

Green River	1440'	(+3893')
Horsebench Sand	2153'	(+3180')
2nd Garden Gulch	3784'	(+1549')
Yellow Marker	4416'	(+ 917')
Douglas Creek	4578'	(+ 755')
2nd Douglas Creek Mkr	4821'	(+ 512')
Green Marker	4961'	(+ 372')
Carbonate Marker	5430'	(- 97')
TOTAL DEPTH	5622' (Logger)	

NOTE: Correlations and nomenclature that used by operator.

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**SIGNIFICANT GAS KICKS**

Information from Mud Logger

<u>Formation</u>	<u>Sample Depth</u>	<u>Time</u>	<u>Total Gas</u>
		<u>(Before-During-After)</u> <u>Min/Ft</u>	<u>(Before-During-After)</u>
Horsebench Sand	2585'-2635'	1.2 - 2.8 - 1.2	70 - 180 - 100
2nd Garden Gulch	3800'-3810'	3.0 - 1.4 - 2.6	280-560-240
2nd Garden Gulch	3840'-3860'	2.2 - 1.0 - 2.2	250-660-250
2nd Garden Gulch	3865'-3870'	2.4 - 2.4 - 1.8	250-560-250
2nd Garden Gulch	4060'-4080'	1.5 - 3.0 - 2.5	170-410-200
2nd Garden Gulch	4112'-4145'	2.0 - 2.0 - 2.0	160-380-160
2nd Douglas Creek Mkr	4902'-4914'	2.5 - 1.0 - 3.0	60-500-100
Green Marker	5050'-5069'	3.0 - 1.0 - 3.0	60-600-100
Green Marker	5082'-5091'	3.5 - 1.0 - 3.0	120-425-100
Green Marker	5102'-5110'	3.0 - 1.6 - 2.8	150-480-120
Carbonate Marker	5466'-5482'	2.5 - 1.0 - 2.5	200-700-220

**POTENTIAL SANDSTONE ZONES**

Provided by Wellsite Geologist

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

2576'-2674'	Gross Interval (no porosity log run over interval.
3427'-3438'	No gas show.
3548'-3559'	No gas show.
3798'-3806'	
3838'-3858'	
3867'-3874'	
4070'-4075'	
4103'-4107'	
4194'-4198'	
*4902'-4910'	
4913'-4919'	
*5046'-5056'	
*5062'-5065'	
*5079'-5087'	
*5090'-5097'	
5462'-5474'	

\*Probably best zones below Douglas Creek

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

**Balcron Oil Co. 31-7J Monument Butte-Federal  
831' FNL, 1782' FEL, Sec. 7, T9S-R17E  
Duchesne County, Utah**

**SAMPLE DESCRIPTIONS**

By: Dennis C. Rehrig

Samples caught and lagged from shale shaker by Mud Loggers. Samples were examined wet, under reflected light and 2.5x magnification from 1200' to total depth, for porosity identification samples were dried. Sample descriptions generally tie well to drill time log. Sample quality was good unless stated otherwise in descriptions. All sample descriptions are interpretive and not tied to E-logs.

1200-50            Shale - generally medium gray, frequently light gray, slightly calcareous in part, some specks carbonaceous material, silty in part, moderately firm-moderately soft, sub-blocky in part, some Pyrite.

Siltstone - occasionally ranging very fine grained Sandstone, light gray-clear in part, moderately firm, slightly friable in part, some specks dark gray-black carbonaceous material, slightly-moderately calcareous, no apparent porosity, NSFOC, some Pyrite.

1250-1300        Sandstone - very fine grained ranging to Siltstone, generally clear-slightly milky, slightly calcareous in part, generally moderately friable, some poor intergranular porosity, NSFOC, some specks carbonaceous material, frequently pyritic, slightly argillaceous.

Some Shale - cream-light gray, slightly-moderately calcareous, moderately soft-moderately firm, slightly carbonaceous in part, sub-blocky in part, some Pyrite.

1300-50            Sandstone - very fine grained ranging to Siltstone, clear-milky in part, occasionally slightly gray, frequently argillaceous, increase in dark brown-black carbonaceous material, slightly-moderately calcareous. Some poor intergranular porosity, NSFOC, frequently pyritic.

Some Shale as above, much slightly tan-buff, slightly calcareous in part, moderately soft, sub-blocky, slightly brown carbonaceous material in part, frequently silty.

1350-1400 Shale - cream-light gray, occasionally slightly buff, slightly-moderately calcareous, frequently specks-streaks dark-medium gray carbonaceous material, commonly microcrystalline disseminated Pyrite, moderately soft, silty in part.

Some Siltstone, as above.

1400-50 Limestone-Dolomitic Limestone - generally tan-medium brown, frequently buff-cream, cryptocrystalline-microcrystalline, very slightly argillaceous in part, moderately soft-firm, brittle in part, slightly carbonaceous in part, some Pyrite, no stain, dull gold mineral fluorescence, weak bluish milky cut.

1450-1500 Siltstone - occasionally very fine grained Sandstone, light gray-clear, frequently medium-dark brown carbonaceous material, moderately calcareous, sub-friable in part, slightly-moderately argillaceous, no apparent porosity, NSFOC, frequently pyritic.

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

1500-1600 Limestone-Dolomitic Limestone - tan-medium brown, slightly argillaceous in part, cryptocrystalline-microcrystalline, earthy in part, slightly-moderately carbonaceous, soft-moderately firm, frequently pyritic, no stain, dull gold mineral fluorescence in part, weak bluish milky cut.

1600-50 Dolomite - medium-dark brown, moderately firm, slightly carbonaceous, slightly argillaceous in part, trace Pyrite - no stain, dull gold mineral fluorescence in part, weak bluish milky cut.

Some Limestone-Dolomitic Limestone - as above.

1650-1700 Dolomite-Limy Dolomite - tan-grayish tan, occasionally medium brown, moderately firm, slightly argillaceous, cryptocrystalline in part, slightly carbonaceous, frequently pyritic, trace cut, as above.

Some Limestone-Dolomitic Limestone - generally cream, slightly-moderately argillaceous, cryptocrystalline, moderately soft, frequently pyritic.

1700-50 Dolomite-Limestone Dolomite as above, some tan-medium brown.

Limestone-Dolomitic Limestone - as above.

- 1750-1800 Dolomite-Limestone Dolomite - medium-dark brown, frequently grayish brown, cryptocrystalline, moderately firm, dense, slightly-moderately carbonaceous, slightly argillaceous in part, some mineral fluorescence and bluish cut as above, generally pyritic.
- 1800-50 Dolomite-Limestone Dolomite - generally as above, but less Pyrite.
- Some Limestone-Dolomitic Limestone - cream-buff, as above.
- 1850-1900 Dolomite-Limestone Dolomite - grayish tan-medium-dark brown, cryptocrystalline, medium firm, slightly argillaceous in part, slightly-moderately carbonaceous, frequently pyritic, some dull gold mineral fluorescence and weak bluish cut.
- Limestone-Dolomitic Limestone - cream-buff-light gray, cryptocrystalline, moderately soft, earthy in part, slightly-moderately argillaceous, slightly carbonaceous in part, generally pyritic.
- 1900-50 Limestone-Dolomitic Limestone - grayish tan-tan-frequently medium brown, cryptocrystalline, moderately firm, slightly argillaceous in part, slightly carbonaceous, frequently microcrystalline disseminated Pyrite.
- Some Limestone - cream-buff, cryptocrystalline, soft, earthy in part, slightly-moderately argillaceous, some Pyrite.
- 1950-2000 Dolomite-Limestone Dolomite - medium-dark brown, cryptocrystalline, moderately firm, slightly argillaceous in part, slightly-moderately carbonaceous, trace Pyrite, some dull gold mineral fluorescence and weak bluish milky cut.
- Some Limestone as above.
- 2000-50 Dolomite-Limestone Dolomite - as above, but more medium brown to frequently grayish brown.
- 2050-2100 Dolomite-Limestone Dolomite - grayish tan-medium-dark brown, cryptocrystalline, moderately firm, slightly argillaceous in part, moderately-highly carbonaceous, slightly petroliferous in part, trace Pyrite, some dull gold mineral fluorescence and weak bluish milky cut.

- 2100-50 Shale - light-medium gray, occasionally cream, slightly-moderately calcareous, moderately soft, sub-blocky in part, slightly carbonaceous, frequently microcrystalline disseminated Pyrite, silty in part.
- Some Siltstone - cream-milky-light gray in part, moderately friable, slightly-moderately calcareous, slightly argillaceous in part, some carbonaceous material, frequently pyritic, NSFOC.
- Some Dolomite-Limestone Dolomite - as above.
- 2150-2200 Dolomite occasionally Limy Dolomite - tan-medium brown-grayish brown, cryptocrystalline, argillaceous in part, moderately-highly carbonaceous, slightly petroliferous in part, dense, some dull gold mineral fluorescence and weak bluish milky cut. in part.
- 2200-2350 Dolomite-Limy Dolomite - generally medium-dark brown, occasionally tan-grayish brown, cryptocrystalline, moderately firm, occasionally medium soft, slightly argillaceous in part, generally moderately-highly carbonaceous, some dull gold mineral fluorescence and weak bluish milky cut.
- 2350-2450 Dolomite - increase in Limy Dolomite - generally as above with increase in tan color, more argillaceous.
- 2450-2500 Dolomite-Limy Dolomite - tan-grayish tan, cryptocrystalline, occasionally microcrystalline, moderately firm, dense, slightly-moderately argillaceous in part, slightly-moderately carbonaceous, some dull gold mineral fluorescence, no cut.
- 2500-50 Dolomite-Limy Dolomite - medium-dark brown-tan, cryptocrystalline-microcrystalline, some looks microsucrosic, with dark brown oil stain, dull gold fluorescence, and fair bluish yellow milky cut. Generally moderately firm, slightly argillaceous in part, moderately-highly carbonaceous, slightly petroliferous in part.
- Some Sandstone - clear-milky, very fine grained, moderately friable, sub-round to sub-angular, moderately well sorted, apparently fair-good intergranular porosity, spotty dark brown oil stain-globules of oil, dull yellow fluorescence and fair-good streaming-milky bluish yellow cut.
- 2550-2650 Sandstone - milky-clear-occasionally white, generally very fine grained, occasionally fine grained, generally friable, sub-angular to sub-round,

moderately well sorted, slightly calcareous cement in part, apparently fair-good intergranular porosity, frequently spotty dark brown oil stain-oil globules, some dull yellow fluorescence and fair-good bluish yellow streaming milky cut.

Some Dolomite-Limestone Dolomite - as above.

2650-2700 Dolomite-Limy Dolomite - tan-medium brown occasionally grayish tan, cryptocrystalline, moderately firm, moderately-highly carbonaceous, slightly petroliferous in part, moderately argillaceous in part, trace Pyrite, dull gold mineral fluorescence in part, and some weak bluish milky cut.

Sandstone - as above.

2700-50 Dolomite-Limy Dolomite - grayish brown-grayish tan, moderately-highly carbonaceous, black petroliferous material in part, moderately soft, slightly-moderately argillaceous, dense, cryptocrystalline, some dull gold mineral fluorescence and weak-fair bluish milky cut, frequently pyritic.

2750-2800 Limestone-Dolomitic Limestone - tan-light-medium brown, crypto-crystalline-microcrystalline in part, moderately soft, moderately-highly argillaceous in part, generally moderately-highly carbonaceous, dense, trace algal laminae, some dull gold mineral fluorescence, some weak-fair bluish yellow milky cut.

2800-50 Shale - clear-cream-occasionally white-light gray, frequently silty, highly calcareous, moderately firm-moderately soft, some specks-streaks of carbonaceous material.

Some Limestone-Dolomitic Limestone - as above.

Some Siltstone - clear-cream, occasionally light gray, moderately-highly calcareous, moderately argillaceous, moderately well consolidated, some specks of carbonaceous material in part.

2850-2900 Siltstone - occasionally ranging to very fine Sandstone - clear-milky, frequently slightly cream-light gray, generally salt and pepper, slightly argillaceous in part, slightly-moderately calcareous in part, frequently microcrystalline disseminated Pyrite, appears tight, trace dark brown specks of oil stain, some dull gold fluorescence and weak bluish milky cut.

Shale – cream–light gray, moderately–highly calcareous, commonly mottled–streaked with medium–dark gray carbonaceous material, soft–moderately soft, pyritic.

2900–50 Limestone–Dolomitic Limestone – tan–grayish tan, frequently medium brown, cryptocrystalline, moderately soft–moderately firm, slightly–moderately argillaceous, slightly–moderately carbonaceous, earthy in part, trace dull gold mineral fluorescence and very weak bluish milky cut.

2950–3000 Limestone occasionally Dolomitic Limestone – generally cream–buff–tan, occasionally medium–dark brown, moderately soft, earthy in part, cryptocrystalline–microcrystalline, moderately–highly argillaceous, slightly–moderately carbonaceous, some Pyrite, trace dull gold mineral fluorescence and very weak bluish milky cut.

3000–50 Siltstone – occasionally ranging to very fine Sandstone – clear–cream, occasionally light gray, generally slightly–moderately argillaceous, moderately well consolidated, moderately–highly calcareous, some salt and pepper, some Pyrite.

Shale – cream–light gray to occasionally white, frequently streaked–mottled with light–medium gray carbonaceous material, moderately soft, moderately–highly calcareous, frequently pyritic.

Some Limestone – cream–buff, as above.

3050–3100 Shale – generally medium gray, occasionally light–dark gray, moderately firm, slightly–moderately calcareous, slightly carbonaceous, sub–blocky in part, silty in part.

Trace Siltstone – clear–milky, occasionally cream, moderately well consolidated, slightly calcareous, slightly argillaceous, some carbonaceous material, trace Pyrite, NSFOC.

3100–50 Limestone–Dolomitic Limestone – tan to light–medium brown, cryptocrystalline, moderately firm–moderately soft, slightly–moderately argillaceous, slightly carbonaceous, frequently pyritic, dull gold–dull yellow mineral fluorescence, very weak bluish milky cut.

3150–3200 Limestone–Dolomitic Limestone – tan–grayish tan–light tan, occasionally buff–cream–medium brown, cryptocrystalline, moderately firm–moderately

soft, slightly-moderately argillaceous, slightly-moderately carbonaceous, generally pyritic, dull gold-yellow mineral fluorescence, very weak bluish milky cut.

3200-50 Limestone occasionally Dolomitic Limestone - buff-tan-light brown, frequently grayish tan, cryptocrystalline, moderately firm-moderately soft, slightly-moderately argillaceous in part, slightly carbonaceous, trace microcrystalline disseminated Pyrite, dull gold-yellow mineral fluorescence, weak bluish yellow milky cut.

3250-3300 Shale - generally dark gray, frequently light-medium gray-brownish gray, moderately firm, occasionally moderately soft, moderately-highly calcareous, moderately carbonaceous, frequently pyritic, sub-blocky in part.

3300-50 Limestone-Argillaceous Limestone - buff-light tan, cryptocrystalline, moderately soft, earthy in part, dull yellow mineral fluorescence, weak bluish yellow milky cut.

3350-3400 Shale - light-medium gray, occasionally cream-grayish tan, moderately firm-moderately soft, moderately-highly calcareous, slightly-moderately carbonaceous, sub-blocky in part, frequently pyritic, silty in part.

Siltstone - clear-milky occasionally slightly cream, moderately well consolidated, slightly argillaceous in part, slightly calcareous, some spotty medium brown oil stain with dull yellow fluorescence and very weak bluish yellow milky cut.

Limestone-Argillaceous Limestone - as above.

3400-50 Limestone-Argillaceous Limestone - generally as above, but buff-cream color.

Shale - medium-dark gray-brownish gray, as above.

Siltstone - as above - grading to very fine grained Sandstone, trace spotty dark brown oil stain, dull yellow fluorescence in part and weak bluish yellow milky cut, some fair intergranular porosity.

3450-3500 Argillaceous Limestone-Limestone - light-medium gray to brownish gray, cryptocrystalline, generally moderately firm, occasionally moderately soft, dense, slightly-moderately carbonaceous, some Pyrite.

- 3500-50 Sandstone very fine grained ranging to Siltstone - clear-milky, slightly calcareous cement in part, slightly friable in part, moderately well sorted, sub-round to sub-angular, some pinpoint specks of carbonaceous material, some pinpoint specks of dark brown oil stain, very weak dull yellow fluorescence in part and weak-fair bluish yellow milky cut, some fair-good intergranular porosity.
- Some Shale - cream-light gray, soft-moderately soft, moderately calcareous, slightly-moderately carbonaceous.
- Some Dolomite-Limy Dolomite - tan-medium to dark brown, cryptocrystalline, moderately firm moderately soft, dense, slightly argillaceous in part, slightly-moderately carbonaceous.
- 3550-3600 Limestone-Argillaceous Limestone - tan-dark grayish brown, moderately soft-moderately firm, cryptocrystalline, slightly-moderately carbonaceous, dense, trace Pyrite, trace dull yellow mineral fluorescence, weak bluish milky cut.
- 3600-50 Argillaceous Limestone-Limestone as 3450-3500' above.
- Some Shale and Dolomite-Limy Dolomite as 3500-3550' above.
- Trace of Sandstone very fine grained grading to Siltstone as 3500-3550' above.
- 3650-3700 Argillaceous Limestone-Limestone - generally medium gray-brownish gray, cryptocrystalline, moderately firm-moderately soft, slightly carbonaceous, trace Pyrite.
- Some Dolomite-Limy Dolomite as 3500-3550' above.
- 3700-50 Argillaceous Limestone-Limestone - generally light-medium gray as above, some buff-tan-medium brown.
- Shale - cream-light gray, moderately calcareous, slightly-moderately carbonaceous, some specks-streaks of carbonaceous material. Abundant microcrystalline disseminated Pyrite, generally soft, silty in part.

Some Siltstone – clear–milky occasionally cream, generally moderately well consolidated, slightly calcareous cement, frequently argillaceous, some carbonaceous material, NSFOC.

3750–3800

Sandstone – very fine grained, generally clear, frequently milky, fairly clean, well sorted, highly friable, sub–angular to sub–round, apparently good intergranular porosity, some pinpoint dark brown oil stain and patches of fairly even dark brown stain, very weak dull yellow fluorescence in part, weak–fair bluish yellow flash cut, some dark brown oil globules.

3800–20

Limestone–Argillaceous Limestone – tan–gray tan–light to medium gray, occasionally buff–medium brown, cryptocrystalline, moderately firm–moderately soft, slightly carbonaceous, trace Pyrite.

Some Sandstone as above.

3820–45

Sandstone – very fine grained–grading to Siltstone, clear–milky, moderately consolidated–moderately unconsolidated, generally friable, moderately well–well sorted, sub–round to sub–angular, fair–good intergranular porosity, abundant pinpoint dark brown oil stain–specks of oil on grain contacts, some dull yellow fluorescence and fair bright yellow flash cut.

3845–50

Sandstone – as above.

Shale – cream–light gray, moderately calcareous, slightly carbonaceous, moderately soft–soft, some mottling and streaks of dark gray carbonaceous material, some Pyrite.

Limestone–Argillaceous Limestone – light–medium gray, occasionally brownish gray, cryptocrystalline, moderately firm, slightly–moderately carbonaceous, dense.

3850–70

Sandstone – very fine grained commonly ranging to Siltstone, generally clear, frequently milky, moderately well consolidated, slightly friable in part, moderately well sorted, sub–round, extremely fine grained, some fair intergranular porosity, slightly calcareous cement, some specks carbonaceous material, commonly light brown–tan oil stain with faint dull yellow fluorescence, very weak bluish yellow milky cut.

Some Shale - cream-light gray, slightly-moderately calcareous, some streaks-specks of carbonaceous material, moderately soft, some microcrystalline disseminated Pyrite.

3870-3930

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

Some Siltstone - generally as above, but only trace of show.

3930-90

Shale and Siltstone - as above.

Limy Dolomite-Dolomite - tan-medium-dark brown, cryptocrystalline, firm-moderately soft, slightly-moderately argillaceous in part, dense, slightly-moderately carbonaceous.

3990-4020

Limestone-Argillaceous Limestone - light-medium gray-brownish gray, moderately firm-moderately soft, cryptocrystalline, dense, slightly-moderately calcareous.

4020-30

Limestone - tan-buff-light brown, cryptocrystalline, moderately firm, slightly-moderately carbonaceous, dense, slightly dull gold-dull yellow mineral fluorescence in part and weak bluish yellow milky-slow streaming cut.

4030-50

Limestone - as above.

Shale - generally light-medium gray, moderately firm, slightly calcareous, slightly-moderately carbonaceous, sub-blocky in part.

4050-80

Shale - cream-light gray, moderately firm-soft, slightly calcareous, slightly-moderately carbonaceous, frequently mottled-streaked with carbonaceous material, frequently Pyrite.

Siltstone - clear-milky-light gray, well consolidated, slightly calcareous, slightly argillaceous in part, some specks carbonaceous material, NSFOC.

Sandstone very fine grained commonly grading to Siltstone - generally tan-medium brown even oil stain, very weak dull yellow fluorescence in part, weak bright yellow milky cut, moderately well consolidated-moderately

friable in part, moderately-well sorted, slightly argillaceous in part, sub-round, extremely fine grained, poor-fair intergranular porosity.

4080-90 Limestone - grayish tan-medium to dark gray in part, cryptocrystalline, moderately form, moderately-highly carbonaceous, highly pelletoidal, some ostracods and oolites, some striated surfaces.

4090-4110 Limestone as above, also frequently tan-medium to dark brown, moderately argillaceous, cryptocrystalline, dense with dull gold mineral fluorescence and very weak bluish milky cut.

Trace Sandstone - generally no show, but some pinpoint dark brown oil stain in part with very weak dull yellow fluorescence and very weak bluish yellow milky cut.

4110-20 Siltstone occasionally grading to very fine Sandstone, generally tan-light brown even oil stain, very weak dull yellow fluorescence, and very weak-weak slow bluish streaming cut. Moderately unconsolidated, moderately well sorted, slightly-moderately calcareous. Probably poor-fair porosity but poor matrix permeability.

Limestone-Dolomitic Limestone - tan-medium to dark brown, as above.

4120-30 Shale - light-medium gray, moderately soft, slightly-moderately calcareous, slightly carbonaceous.

Siltstone as above, some clear-milky without show.

Dolomite-Limy Dolomite - generally dark brown-dark orangish brown, moderately firm-moderately hard, brittle in part, cryptocrystalline, dense.

4130-40 Siltstone occasionally ranging to very fine Sandstone as 4110-4120' above.

Shale - as above.

Dolomite-Limy Dolomite - as above.

Some Limestone-Argillaceous Limestone - buff-light tan, cryptocrystalline, moderately soft, earthy in part, dense.

- 4140-45      Siltstone commonly ranging to very fine Sandstone, even tan-light brown oil stain, fair dull yellow fluorescence and fair bluish yellow flash cut, generally unconsolidated and friable in part, moderately well-sorted, sub-angular to sub-round, fair intergranular porosity and likely poor matrix permeability.
- Some Shale - cream-light gray, slightly-moderately calcareous, slightly carbonaceous, moderately soft.
- 4145-70      Shale - dark gray-dark brownish gray, slightly-moderately calcareous, generally moderately firm, moderately-highly carbonaceous, some Pyrite.
- Dolomite-Limy Dolomite - medium-dark brown, cryptocrystalline, moderately firm-firm, dense.
- 4170-4200      Shale - cream-light gray, commonly streaked-mottled, moderately calcareous, slightly-moderately carbonaceous, soft-moderately soft, commonly Pyrite.
- Siltstone - clear-milky occasionally slightly gray, moderately consolidated, slightly-moderately calcareous, frequently slightly argillaceous, moderate-poor sorting, generally sub-angular, generally no show, trace pinpoint dark brown oil stain, no fluorescence, very weak bluish milky cut.
- 4200-30      Shale and Siltstone - as above.
- Some Dolomite - orangish tan-medium to dark brown, generally firm, brittle in part, cryptocrystalline, dense, slightly argillaceous in part.
- 4230-60      Argillaceous Limestone-Limestone - tan-grayish tan, occasionally medium-dark brown, cryptocrystalline, earthy in part, moderately firm-soft, slightly-moderately carbonaceous.
- Shale - generally dark gray-dark brownish gray, occasionally slightly black, moderately firm-moderately hard, brittle in part, slightly calcareous, moderately-highly carbonaceous, slightly petroliferous in part, sub-blocky in part, slightly dull gold mineral fluorescence and weak bluish yellow milky cut.
- 4260-90      Shale - generally light-medium gray, frequently brownish gray, moderately soft, slightly-moderately calcareous, trace Pyrite, some smooth surfaces,

slightly-moderately carbonaceous, some dark brown-slightly black, slightly petroliferous with some dull gold fluorescence and very weak bluish milky cut.

Some Argillaceous Limestone-Limestone - as above.

4290-4320

Limestone - buff-tan-grayish tan, abundant ostracods, cryptocrystalline, moderately firm, dense.

Some Argillaceous Limestone-Limestone - as above.

Shale - cream-light gray, slightly-moderately calcareous, slightly carbonaceous, slightly mottled-streaked, frequently pyritic, moderately soft.

Siltstone - clear-milky, occasionally cream, slightly argillaceous in part, moderately well consolidated, trace pinpoint dark brown oil stain in part, with weak dull yellow fluorescence and weak bluish milky cut.

4320-50

Shale - light-medium gray, moderately firm, slightly calcareous, sub-blocky, slightly silty in part, slightly carbonaceous, trace Pyrite.

4350-4410

Shale - medium gray, frequently brownish gray, moderately firm, slightly-moderately calcareous, slightly carbonaceous, slightly silty in part.

Trace Siltstone - clear-milky occasionally cream, slightly argillaceous in part, slightly calcareous, moderately firm, NSFOC.

4410-4500

Shale - cream-light to medium gray, moderately soft-moderately firm, slightly-moderately calcareous, commonly slightly carbonaceous, silty in part, trace Pyrite.

Siltstone - clear-milky-cream, slightly-moderately calcareous, well consolidated, moderately firm-moderately soft, slightly argillaceous, frequent speck carbonaceous material, NSFOC.

4500-30

Shale - light-medium gray, frequently brownish gray, occasionally cream, moderately soft-moderately firm, slightly-moderately calcareous, sub-blocky in part, trace Pyrite.

Siltstone - as above.

4530-60 Siltstone grading to very fine grained Sandstone - clear-milky, slightly calcareous in part, generally moderately well consolidated, slightly argillaceous in part, moderately well sorted, sub-angular in part, NSFOC, some specks carbonaceous material.

Shale - cream-light gray, frequently mottling-streaks of carbonaceous material, moderately soft, slightly-moderately calcareous.

Some Dolomite-Limy Dolomite, orangish brown-medium to dark brown, cryptocrystalline, firm-moderately soft, earthy in part, slightly-moderately argillaceous in part, generally moderately carbonaceous, dense.

4560-90 Limestone-Argillaceous Limestone - grayish brown-frequently tan, occasionally dark brown, cryptocrystalline, moderately firm and brittle in part-moderately soft, moderately highly carbonaceous, slightly petroliferous in part, dense, very weak dull yellow fluorescence in part, and very weak bluish yellow milky cut.

4590-4620 Sandstone occasionally ranging to Siltstone, clear-milky, commonly very faint light brown oil stain, fair-good dull yellow fluorescence and weak-fair bluish yellow flash-streaming cut, moderately well consolidated, slightly friable in part, some calcareous cement, generally moderately well sorted, sub-round to sub-angular, generally appears tight, but some poor-fair intergranular porosity, frequently slightly argillaceous.

Some Shale and Limestone-Argillaceous Limestone - as above.

4620-50 Shale - generally medium gray, frequently light-dark gray, moderately firm-moderately soft, slightly-moderately calcareous, slightly carbonaceous, sub-blocky in part.

Dolomite-Limy Dolomite - orangish tan-medium to dark brown, cryptocrystalline, slightly argillaceous in part, firm-moderately firm, dense.

Some Limestone-Argillaceous Limestone - as above.

4650-80 Limestone - buff-light tan, cryptocrystalline, abundant ostracods, frequently pellets, moderately firm, dense, some silt and very fine quartz grains.

- 4680-4740      Shale - cream-light gray, frequently specks-streaks of dark gray carbonaceous material, slightly-moderately calcareous, slightly carbonaceous, silty in part, some Pyrite.
- Dolomite-Limy Dolomite - orangish tan-medium to dark brown, cryptocrystalline, firm-moderately soft, dense, moderately-highly carbonaceous, petroliferous in part.
- Siltstone occasionally ranging to very fine Sandstone - clear-milky-frequently cream, slightly calcareous, frequently slightly argillaceous, moderately-poorly sorted, moderately well consolidated, slightly friable in part, NSFOC.
- 4740-70        Shale - generally as above frequently medium-dark gray, occasionally brownish gray.
- Siltstone - as above.
- 4770-4800     Shale-Limy Shale - grayish tan-occasionally medium-dark gray, moderately firm-occasionally moderately soft, moderately calcareous, moderately carbonaceous, sub-blocky in part.
- 4800-30        Limestone - buff-light tan, cryptocrystalline, moderately firm-moderately soft, slightly argillaceous, slightly-moderately carbonaceous, dense.
- 4830-60        Shale - generally light-medium gray, occasionally cream, moderately calcareous, slightly carbonaceous, moderately soft, trace Pyrite, some smooth striated surfaces, sub-blocky in part.
- Some Limestone - as above.
- 4860-90        Shale - as above.
- Trace Siltstone - clear-milky-cream, moderately well consolidated, slightly calcareous, slightly argillaceous in part, NSFOC.
- 4890-4912     Sandstone very fine grained grading to Siltstone - even medium-dark brown oil stain, very weak dull yellow fluorescence in part, fair-good flash-streaming dull yellow cut, moderately well sorted, slightly calcareous in part, slightly argillaceous in part, sub-angular to sub-round, moderately well

consolidated, slightly friable in part, fair-good intergranular porosity, permeability may be low due to extremely fine grained nature of Sandstone.

4912-50 Limestone-Argillaceous Limestone - medium-dark brown, frequently grayish brown, occasionally tan, cryptocrystalline, moderately firm and brittle in part, to soft and earthy, moderately-highly carbonaceous, slightly petroliferous in part, dense, no fluorescence, very weak slow streaming dull yellow cut in part.

4950-80 Shale - light-medium gray, occasionally brownish gray, moderately firm-moderately soft, slightly-moderately calcareous, slightly carbonaceous, trace Pyrite, sub-blocky in part, silty in part.

Some Siltstone - clear-slightly cream, milky in part, moderately well consolidated, slightly calcareous, slightly argillaceous in part, NSFOC.

4980-5010 Shale - as above.

Limestone-Dolomitic Limestone - medium-dark brown, occasionally tan, cryptocrystalline, moderately firm-moderately soft, slightly-moderately argillaceous in part, generally moderately-highly carbonaceous, trace of algal laminae, dense, some dull gold-yellow mineral fluorescence with very weak bluish milky cut in part.

5010-40 Limestone-Dolomitic Limestone - as above.

Shale - as above.

Some Siltstone - as above.

5040-60 Sandstone very fine grained ranging to Siltstone - generally even light tan-light brown oil stain, dull yellow fluorescence and weak-fair bluish yellow milky-slow streaming cut. Moderately unconsolidated, generally friable, slightly calcareous, slightly argillaceous in part, fair-good intergranular porosity, probably poor permeability, some lithic fragments.

Shale - as above.

5060-70 Sandstone - as above.

Limestone-Dolomitic Limestone - as above.

Some Shale as above, some cream and highly mottled.

5070-90

Sandstone very fine grained ranging to Siltstone, commonly light tan even oil stain, not all sand stained, weak dull yellow fluorescence with very weak-weak bluish yellow slow streaming cut. Generally unconsolidated-moderately unconsolidated, generally friable, slightly calcareous, slightly argillaceous in part, fair-good intergranular porosity, generally show not as good as Sandstone in 5040-5060 sample.

Some Shale - cream-light gray, generally moderately soft-soft, slightly-moderately calcareous, slightly carbonaceous, slightly streaked-mottled in part, some Pyrite.

5090-5100

Shale - light-medium gray, frequently cream, occasionally brownish gray, moderately firm-moderately soft, slightly-moderately calcareous, silty in part, slightly carbonaceous.

Some Dolomite-Limy Dolomite - tan-medium to dark brown, slightly-moderately argillaceous in part, cryptocrystalline, moderately firm-moderately soft, earthy in part, dense.

5100-10

Sandstone very fine grained grading to Siltstone, even dark brown-frequently black oil stain, weak dull gold fluorescence in part, fair-good flash-streaming dull yellow cut, generally moderately unconsolidated, friable, slightly calcareous in part, moderately well sorted, sub-angular to sub-round, fair-good intergranular porosity, probably fair permeability, slightly larger sand grains than above.

Some Shale - as above.

5110-30

Dolomite-Limy Dolomite - orangish brown-medium to dark brown, generally cryptocrystalline occasionally microcrystalline, firm-moderately soft, slightly-moderately argillaceous in part, slightly-highly carbonaceous, dense, much dull gold mineral fluorescence and very weak-weak bluish milky cut, trace Pyrite.

Shale - light-medium gray, occasionally cream, slightly-moderately calcareous, generally moderately soft, frequently streaked-mottled with carbonaceous material, frequently pyritic, slightly silty in part.

5130-60

Shale - dark gray-slightly black-brownish gray, slightly firm-moderately soft, slightly brittle in part, slightly calcareous, moderately-highly carbonaceous, NSFOC.

Dolomite-Limy Dolomite - tan-light brown, frequently dark brown-orangish brown, cryptocrystalline, moderately soft-occasionally moderately firm, moderately-slightly argillaceous, show as 5110-30 above.

5160-90

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

Shale - as 5130-5160' above.

5190-5220

Shale - generally medium-dark gray, frequently light gray-cream, moderately soft, slightly-moderately calcareous, slightly-moderately carbonaceous, sub-blocky in part, slightly silty in part.

Dolomite-Limy Dolomite - dark tan, medium-dark brown, firm-moderately firm, cryptocrystalline, slightly argillaceous in part, dense, some dull gold mineral fluorescence, very weak bluish milky cut in part.

Some Limestone - light tan-buff, occasionally slightly grayish, cryptocrystalline, generally moderately argillaceous, some dull gold mineral fluorescence, very weak bluish milky cut in part, dense.

5220-50

Shale - dark gray-dark brownish gray, occasionally medium gray, moderately firm-moderately soft, slightly-moderately calcareous, moderately-highly carbonaceous, frequently sub-blocky-occasionally sub-splintery to sub-platy, occasionally pyritic.

Dolomite-Limy Dolomite - as above.

5250-80

Limestone-Dolomitic Limestone - orangish tan-medium to dark brown, occasionally buff, cryptocrystalline, firm-moderately soft, slightly-moderately argillaceous in part, moderately carbonaceous, dense, dull gold mineral fluorescence, very weak bluish milky cut.

Shale - light-medium gray, occasionally dark gray, as above.

Some Dolomite - orangish tan-brown, cryptocrystalline, moderately-highly carbonaceous, slightly petroliferous in part, moderately firm, dense, some moderately firm, dense, some dull gold mineral fluorescence, very weak bluish milky cut in part.

- 5280-5340 Shale - black-dark brownish gray, moderately soft, sub-blocky, highly carbonaceous, moderately petroliferous, occasionally pyritic, no fluorescence, very weak slow bluish streaming cut in part.
- 5340-70 Shale - mostly medium gray-medium brownish gray, occasionally light gray, some as above. Generally moderately firm-moderately soft, slightly-moderately calcareous, sub-blocky in part, moderately-occasionally highly carbonaceous.
- 5370-5460 Shale - black-dark brownish gray, some bronze cast, generally moderately soft, generally slightly calcareous, highly carbonaceous-petroliferous, sub-platy to sub-fissile in part, no fluorescence, very weak slow bluish milky cut.
- 5400-30 Shale - medium brownish gray-medium gray, frequently dark gray-black, moderately soft, slightly-moderately calcareous, moderately-highly carbonaceous, petroliferous in part, trace Pyrite, show as above.
- Trace Limestone - cream-buff-light tan, cryptocrystalline, moderately soft, dense, highly pelletoidal in part.
- 5430-60 Shale - cream-light gray, frequently mottled-streaked with brown-medium gray, moderately calcareous, slightly carbonaceous, moderately soft.
- Some Sandstone very fine grained ranging to Siltstone - slightly-moderately calcareous in part, slightly argillaceous in part, clear-milky occasionally cream, moderately consolidated, some loose grains, trace dark brown stain, trace dull yellow fluorescence, very weak slow bluish streaming-milky cut.
- Some Limestone - tan-buff, cryptocrystalline, moderately argillaceous, moderately soft, dense.
- 5460-90 Sandstone fine-very fine Sandstone - clear-milky, moderately unconsolidated, slightly friable in part, moderately well sorted, sub-angular to sub-round, slightly calcareous in part, generally even faint tan oil stain, good dull yellow fluorescence and weak bluish yellow milky cut, some medium-dark specks of oil stain. Some fair intergranular porosity, not all sand is oil stained.
- Some Shale as 5430-5460' above.

5490-5520

Shale - light-medium gray, frequently cream-brownish gray, slightly-moderately calcareous, slightly-moderately carbonaceous, mottled-streaked in part, slightly silty in part, trace Pyrite.

Some Limestone - tan-buff, as above.

Some Siltstone - very fine Sandstone - clear-milky, generally moderately unconsolidated, moderately sorted, sub-angular to sub-round, trace light brown oil stain primarily in Siltstone, faint dull yellow fluorescence, very weak bluish milky cut.

5520-50

Sandstone very fine grained frequently grading to Siltstone, clear-milky slightly cream in part, slightly-moderately calcareous, slightly-moderately argillaceous, lithic particles in part, generally well-moderately well consolidated, slightly friable in part, moderately-poorly sorted, sub-angular to sub-round, occasionally specks of dark brown oil stain, abundant dull yellow fluorescence, trace very weak slow bluish yellow cut. Poor show. Generally very poor-poor intergranular porosity.

Some Shale - cream-light gray, moderately soft, slightly-moderately calcareous, frequently mottled-streaked, slightly carbonaceous, some Pyrite.

5550-60

Shale - cream-light gray, frequently medium gray-brownish gray as above, silty in part.

Limestone-Argillaceous Limestone - tan-grayish tan-medium brown, cryptocrystalline, moderately soft, generally moderately argillaceous, dense, some dull gold-yellow mineral fluorescence, very weak bluish milky cut.

Siltstone - clear-milky as above 5490-5520'.

5560-80

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

Limestone-Argillaceous Limestone - buff-tan, as above.

Some Siltstone, as above.

5580-88

Sandstone very fine grained ranging to Siltstone - clear-milky-slightly cream in part, moderately-highly calcareous, slightly argillaceous in part, generally moderately unconsolidated, slightly friable in part, moderately-poorly sorted, sub-round to sub-angular, generally poor-very poor

intergranular porosity, trace very faint tan oil stain, abundant yellow fluorescence, trace very weak bluish milky cut, very poor show, some lithic particles.

Shale, as above.

5588-92

Sandstone, as above.

Shale - generally cream, frequently light gray, frequently mottled-specked with carbonaceous material, generally soft-moderately soft, some Pyrite.

Limestone - tan-buff, cryptocrystalline, slightly mottled in part, moderately soft, dense, slightly argillaceous.

5592-5640

Sandstone very fine-frequently fine grained, commonly grades to silt, slightly-moderately calcareous, slightly argillaceous in part, moderately well consolidated, frequently friable, moderately well-poorly sorted, sub-angular to sub-round, generally poor intergranular porosity, generally no show, trace pinpoint dark brown oil stain, with weak dull yellow fluorescence and very slow dull yellow streaming cut, some lithic particles.

Shale and Limestone - as above.

5640-70

Siltstone ranging to very fine-fine grained Sandstone as above, except no cut.

Shale, as above.

5670-90

Shale - black-dark brownish gray, frequently bronze cast, moderately soft-occasionally moderately firm, very slightly-frequently moderately calcareous, highly carbonaceous-commonly petroliferous, NSFOC.

5690-5700

Shale - generally moderately gray, occasionally light gray-cream, moderately soft-occasionally moderately firm, non-calcareous to very slightly calcareous, slightly carbonaceous in part, trace Pyrite, streaked-slightly mottled in part.

Some Shale, as above.

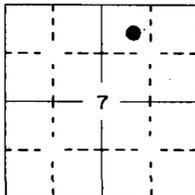
TOTAL DEPTH 5700' (Driller).

# DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

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

## GEOLOGIC WELL LOG



BALCRON OIL 31-7J MONUMENT BUTTE-FEDERAL  
831' FNL 1782' FEL, SECTION 7, T 9 S-R 17 E  
DUCHESNE COUNTY, UTAH

ELEVATIONS: 5295' GL 5308' KB

SPUD: 7:30 PM (MST) 11/26/93 (Small air drilling rig  
previously set surface casing)

OUT FROM UNDER SURF. CSG.: 7:30 PM (MST) 11/26/93  
(7 7/8" HOLE)

DATE DRLG. COMP.: 6:30 PM (MST) 12/4/93

DATE WELL COMPLETED: 2:00 AM (MST) 12/6/93

STATUS: CASED FOR OIL COMPLETION ATTEMPT

SURF. CSG.: 282' OF 8 5/8"

PRODUCTION CSG: 5 1/2" TO 5700' KB

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: MOLEN DRILLING CO.

RIG: 1

DERRICK: IDELA, 104' MAST (DOUBLE)

DRAWWORKS: EMSCO GB-250T, POWERED BY 2  
DETROIT 6-71 300 HP DIESELS

PUMPS: EMSCO D-375 14" STROKE

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

COLLARS: BHA 763.82'-521.08' 6" DC & 238.19" HWP

MUD SYSTEM: KCL/WATER TO TD

TOTAL BITS: 3 ROTARY RIG, AIR DRILLED FOR SURFACE  
CASING

TOTAL DAYS TO LOG POINT: 9 TO COMPL: 10

T.D. DRILLER 5700' LOGGER 5696'

PENETRATION: 273' BELOW CARBONATE MARKER

### 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
	BIOCLASTIC or FRAGMENTAL		FOSSILS UNIDENTIFIABLE
	CORAL		OOLITES
	STROMATOPOROID		PISOLITE 2mm. or over
	BRYOZOA		PSEUDO OOLITES or PELLETS
	BRACHIOPOD		INTRACLASTS
	OSTRACOD		

### FRAMEWORK ALGAE

	SKELETAL
	OOTOID or ONCOLYTIC

### NON-FRAMEWORK ALGAE

	NON-DESCRIPT
	LAMINATED

### MISCELLANEOUS

	NO SAMPLES		QUESTIONABLE INTERPRETATION
	CANNOT INTERPRET, cavings, etc.		STYLOLITES

### POROSITY TYPES

X	INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL	O	ORGANIC - bridged, Intrafossil
∅	INTEROOLITIC, INTERPELLETOID	F	FRACTURE
V	VUGGY - voids greater than 1/16mm	e	EARTHY - low permeability, crystals less than 1/16mm
P	PINPOINT - voids less than 1/16mm	□	FENESTRAL - voids from gas bubbles, shrinkage cracks & birdseye texture
∩	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 (%)
GRAB
WASH
TRIP
5 TO 10
15 TO 20
25 TO 30
35 TO 40
45 TO 50
50 TO 55
55 TO 60
60 TO 65
65 TO 70
70 TO 75
75 TO 80
80 TO 85
85 TO 90
90 TO 95
95 TO 100

INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT & LABGED BY MUD LOGGERS. GENERALLY

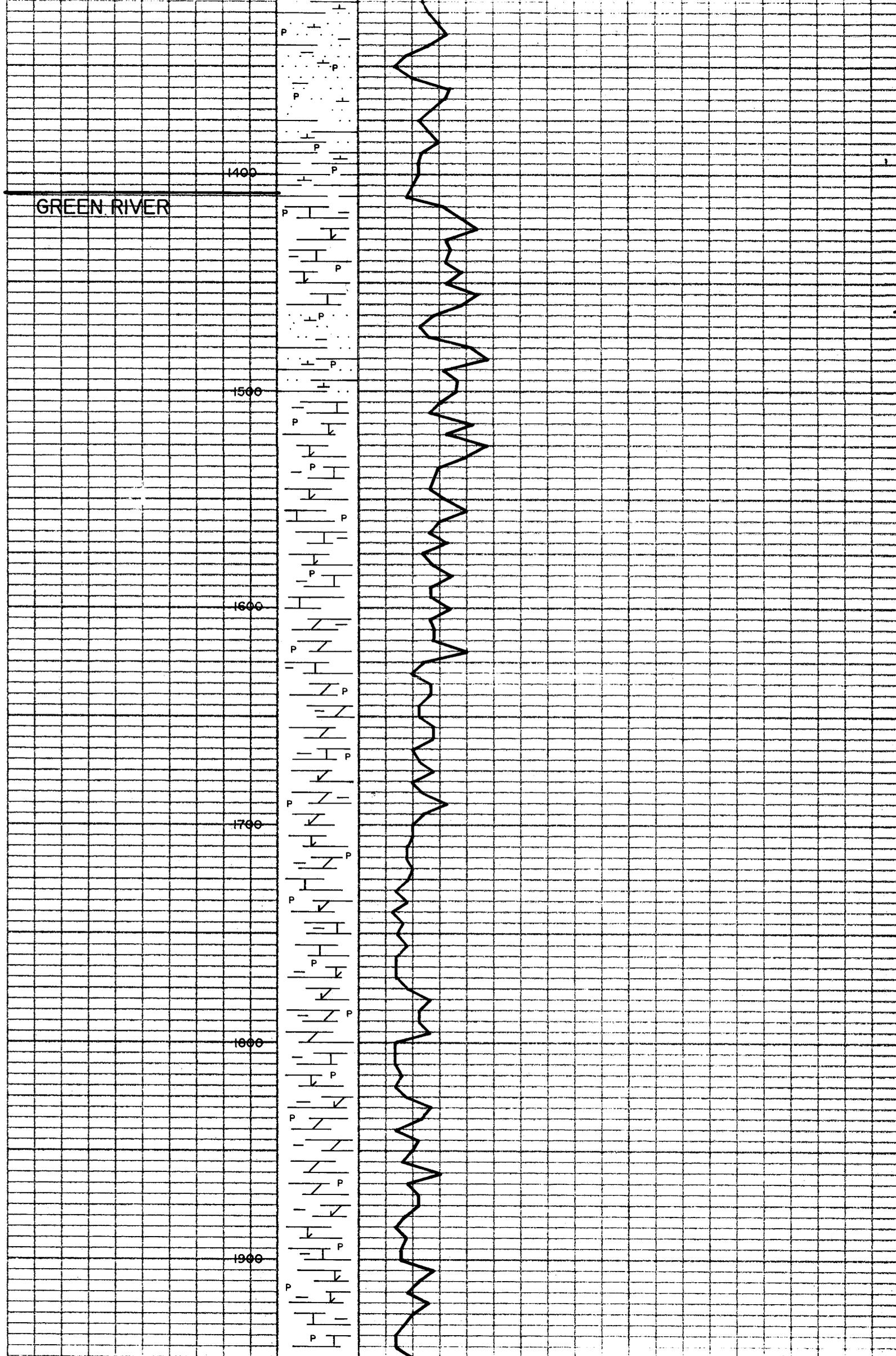
TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES. POROSITY & SHOWS

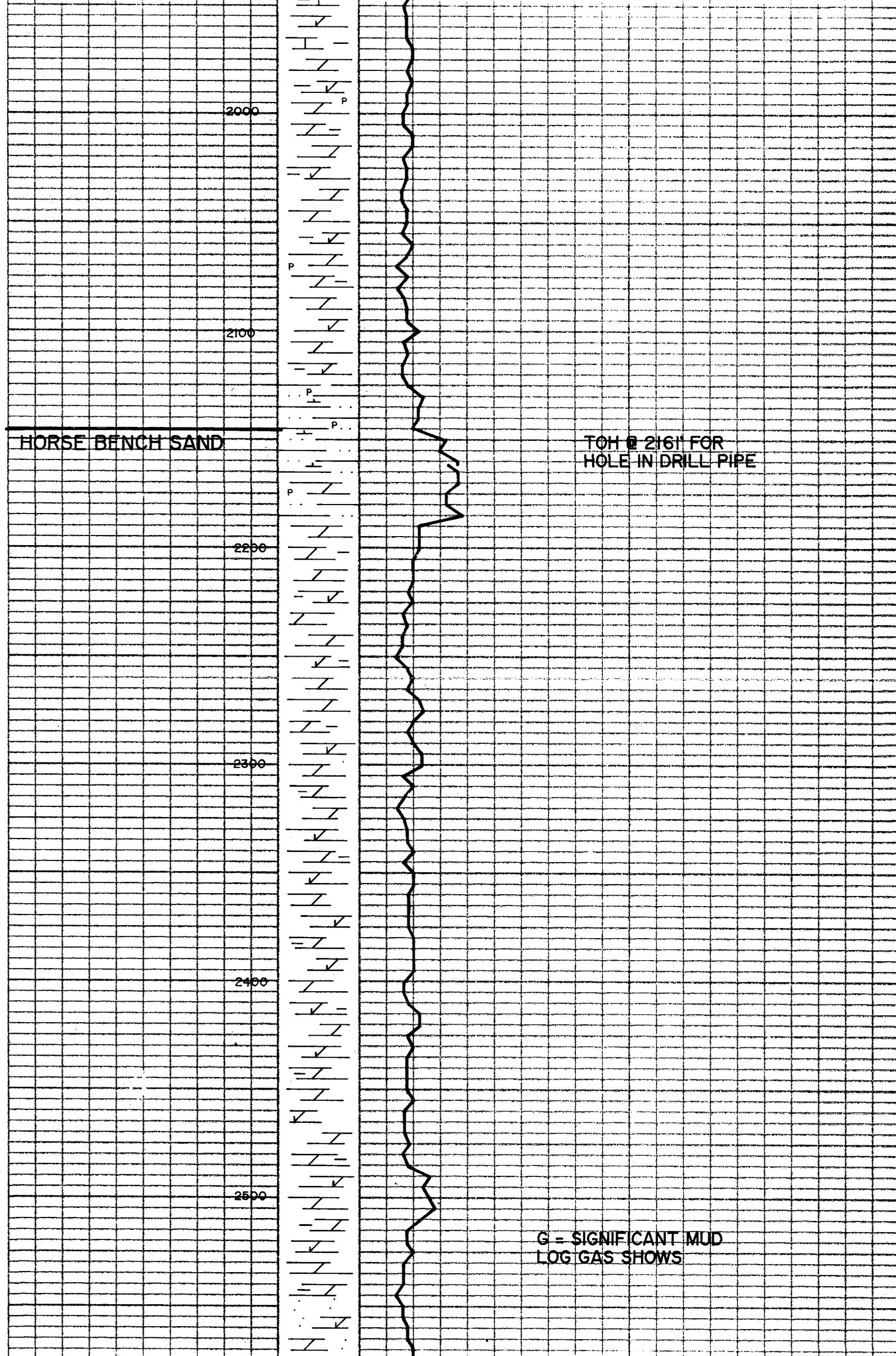
E-LOG TOPS

SAMPLES EXAMINED FROM 1200'-TOTAL DEPTH. SEE SAMPLE DESCRIPTIONS IN REPORT FOR DETAILS.

EW 408K

NO 101 3355





2000

2100

HORSE BENCH SAND

2200

2300

2400

2500

TOH @ 2161' FOR  
HOLE IN DRILL PIPE

G - SIGNIFICANT MUD  
LOG GAS SHOWS



2600

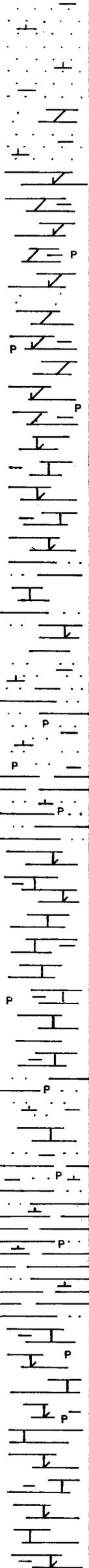
2700

2800

2900

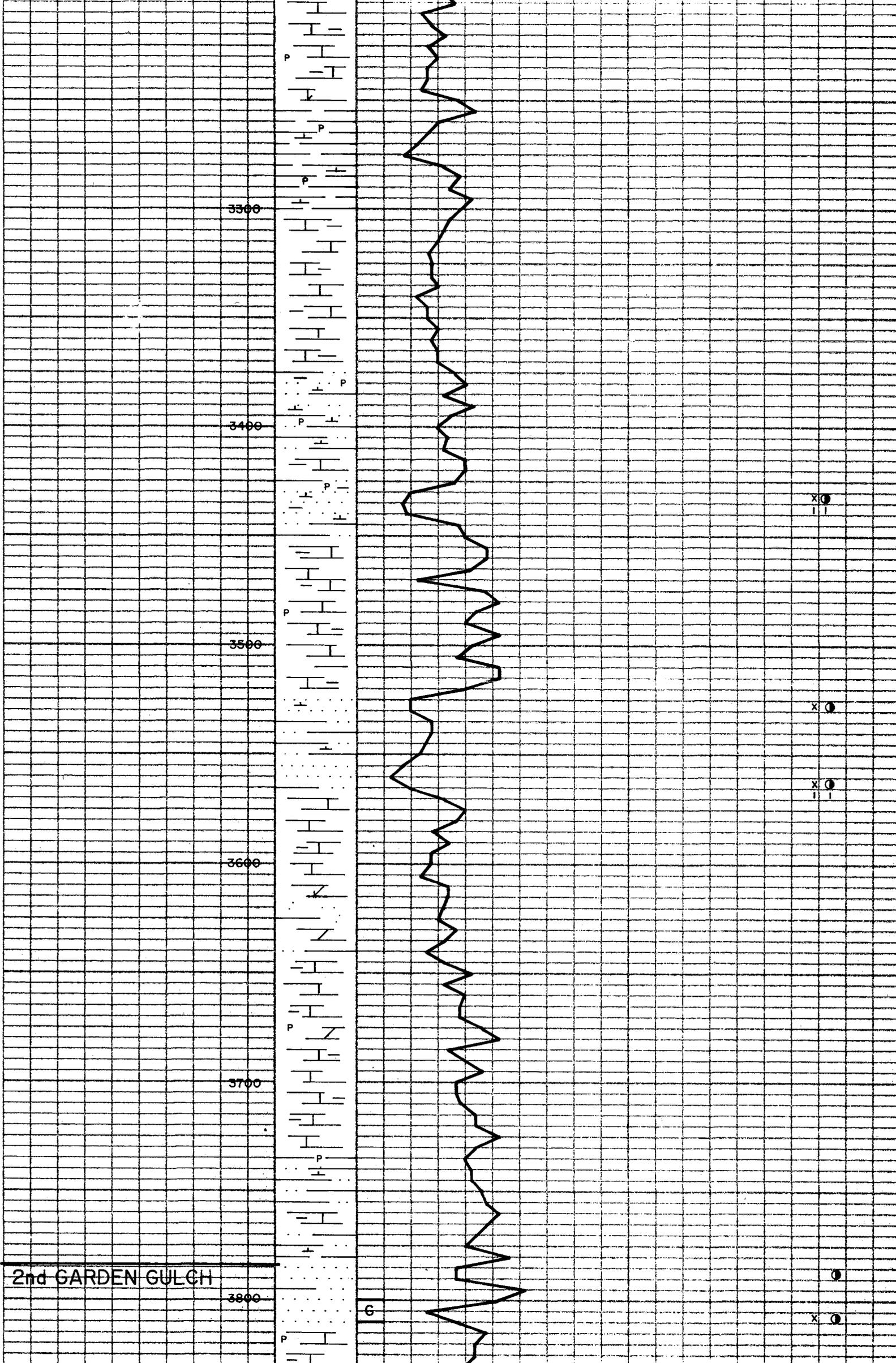
3000

3100



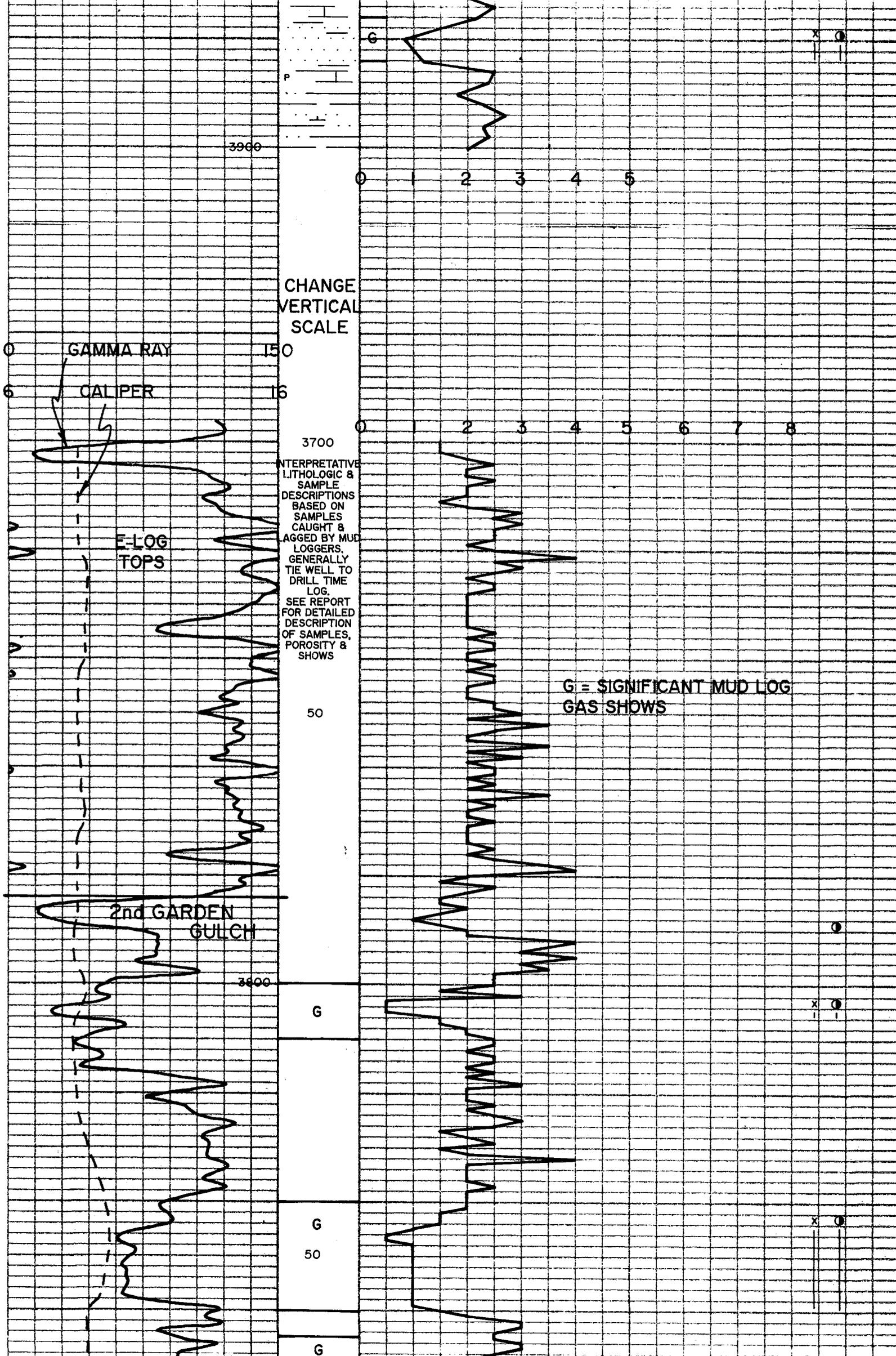
No. LC1 3355

MADE IN U.S.A.



2nd GARDEN GULCH

G



CHANGE VERTICAL SCALE

0 GAMMA RAY 150

6 CALIPER 16

3700

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

50

2nd GARDEN GULCH

3600

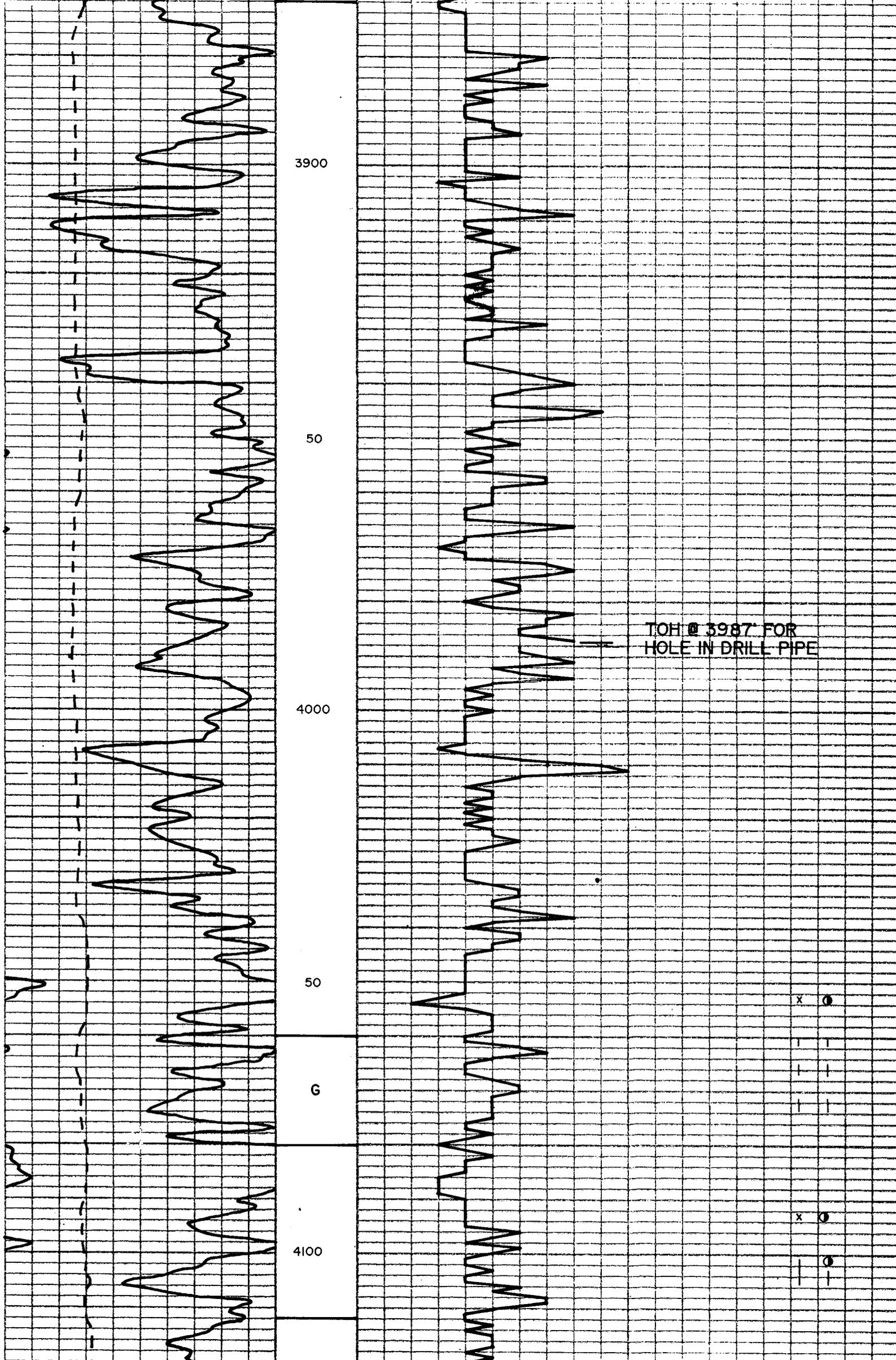
G

G

50

G

G = SIGNIFICANT MUD LOG GAS SHOWS



— — — — —  
— — — — —  
— — — — —

G

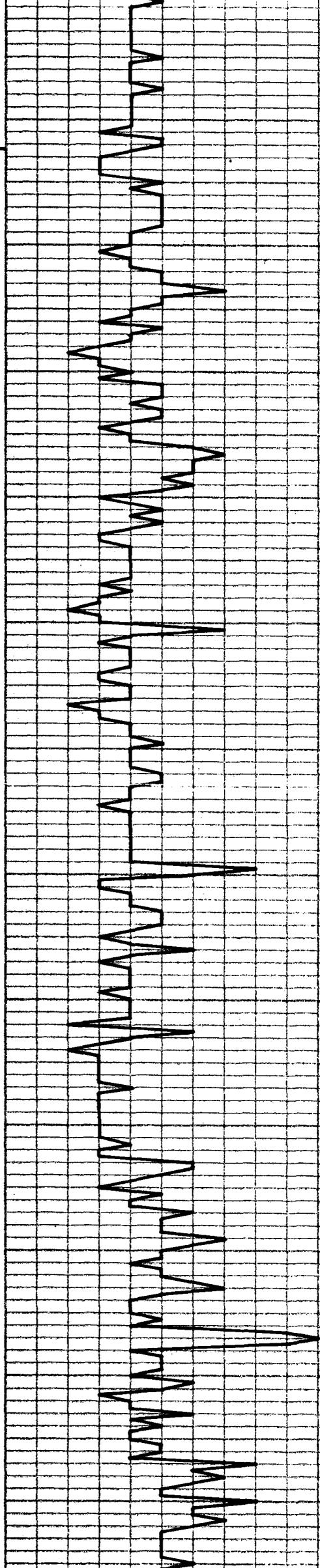
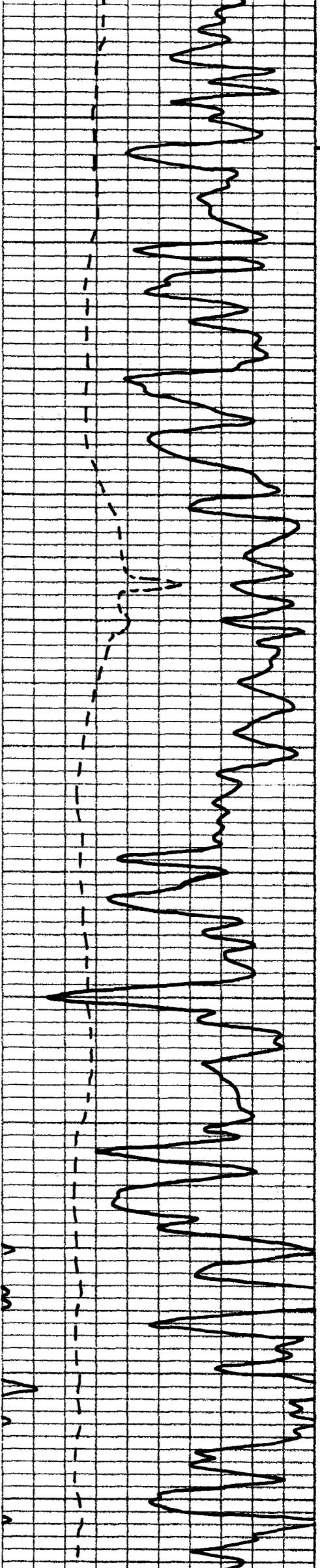
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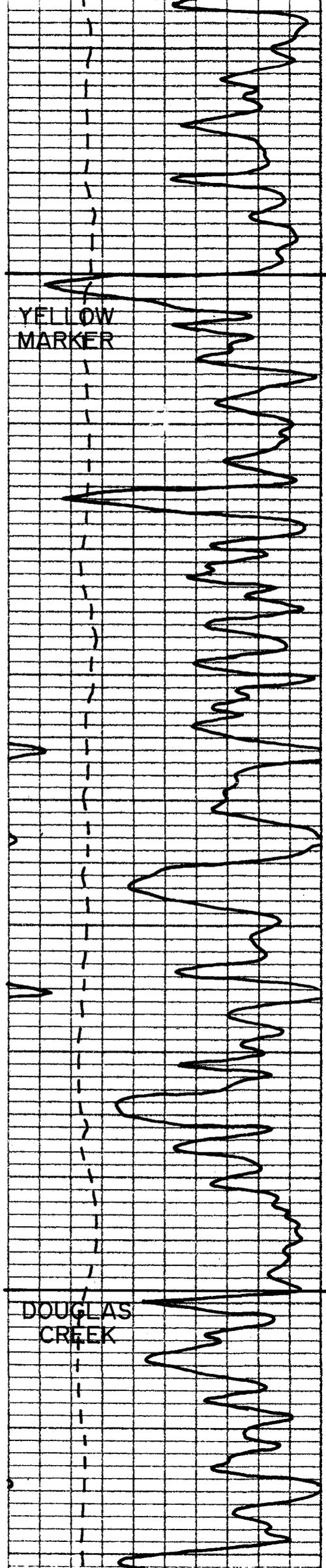
4200

50

4300

50





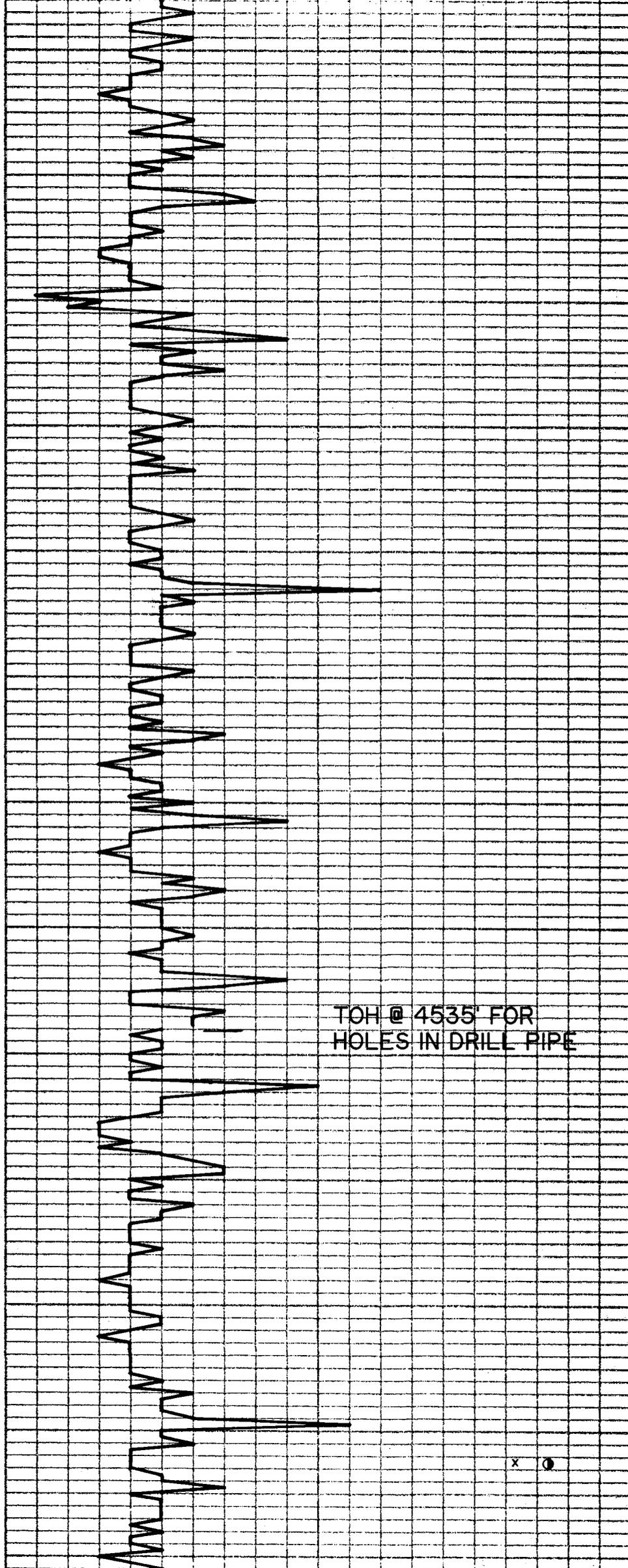
4400

50

4500

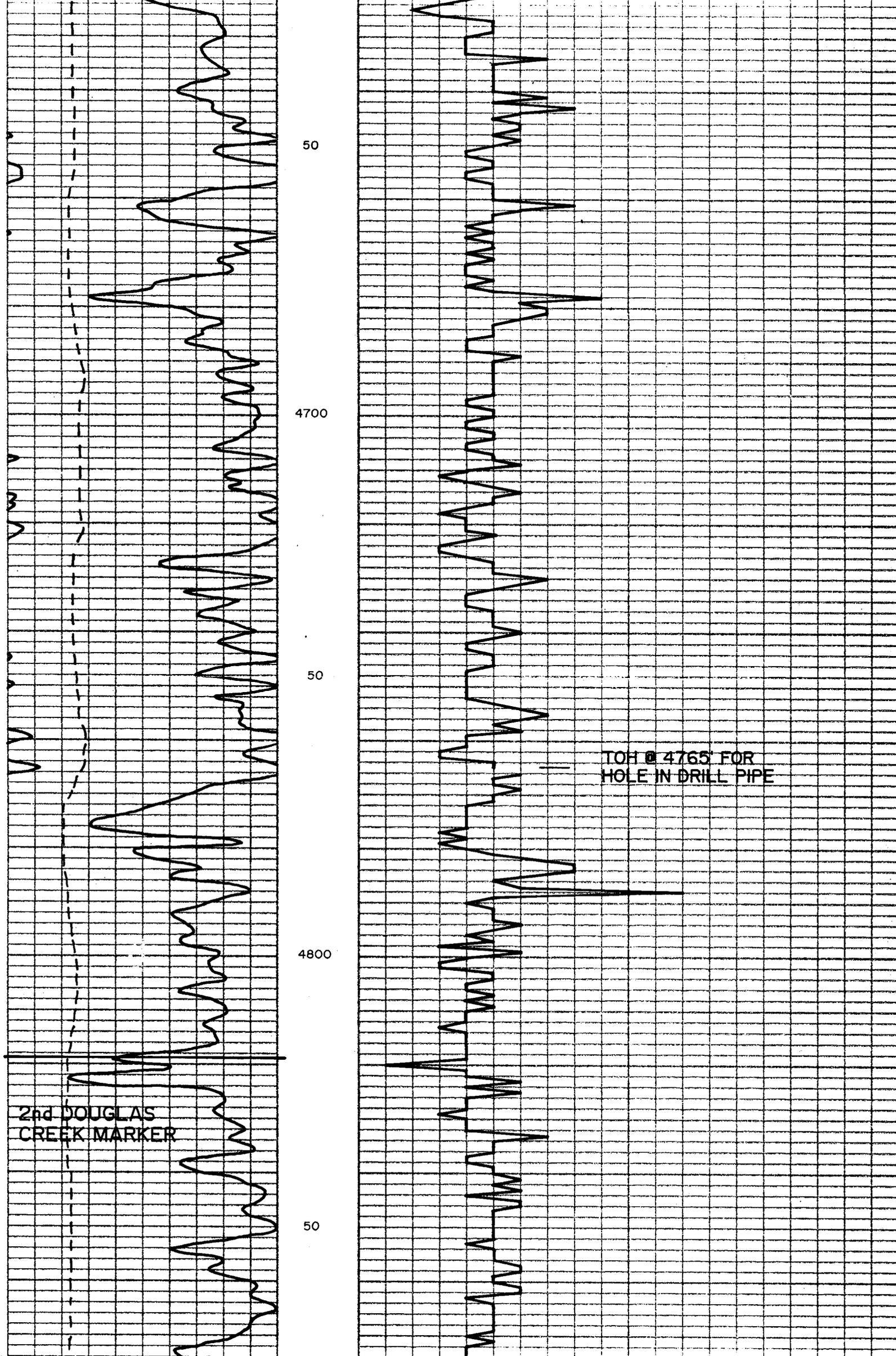
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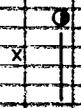
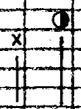
4600



TOH @ 4535' FOR HOLES IN DRILL PIPE

x ●





4900

G

50

GREEN MARKER

5000

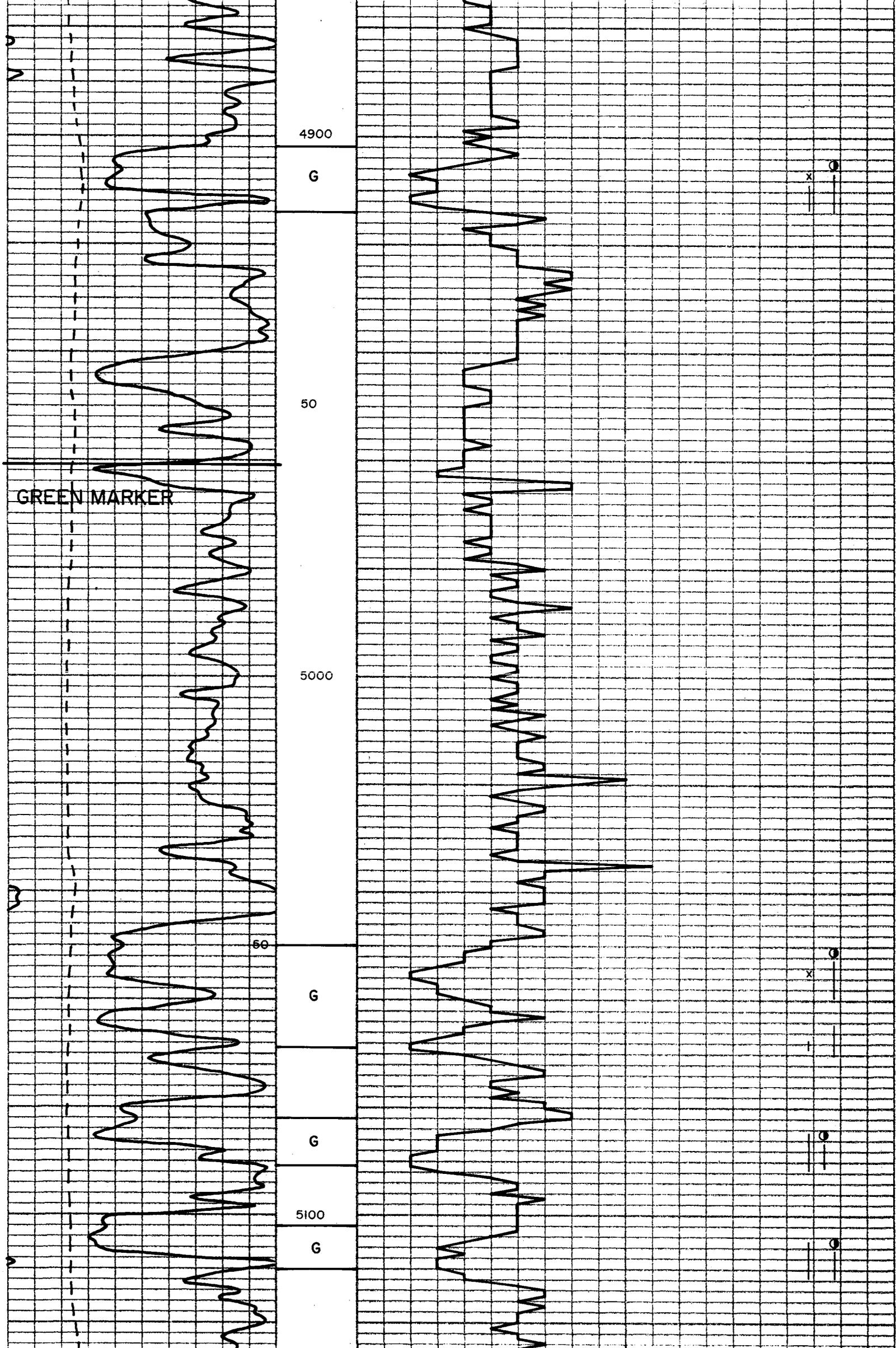
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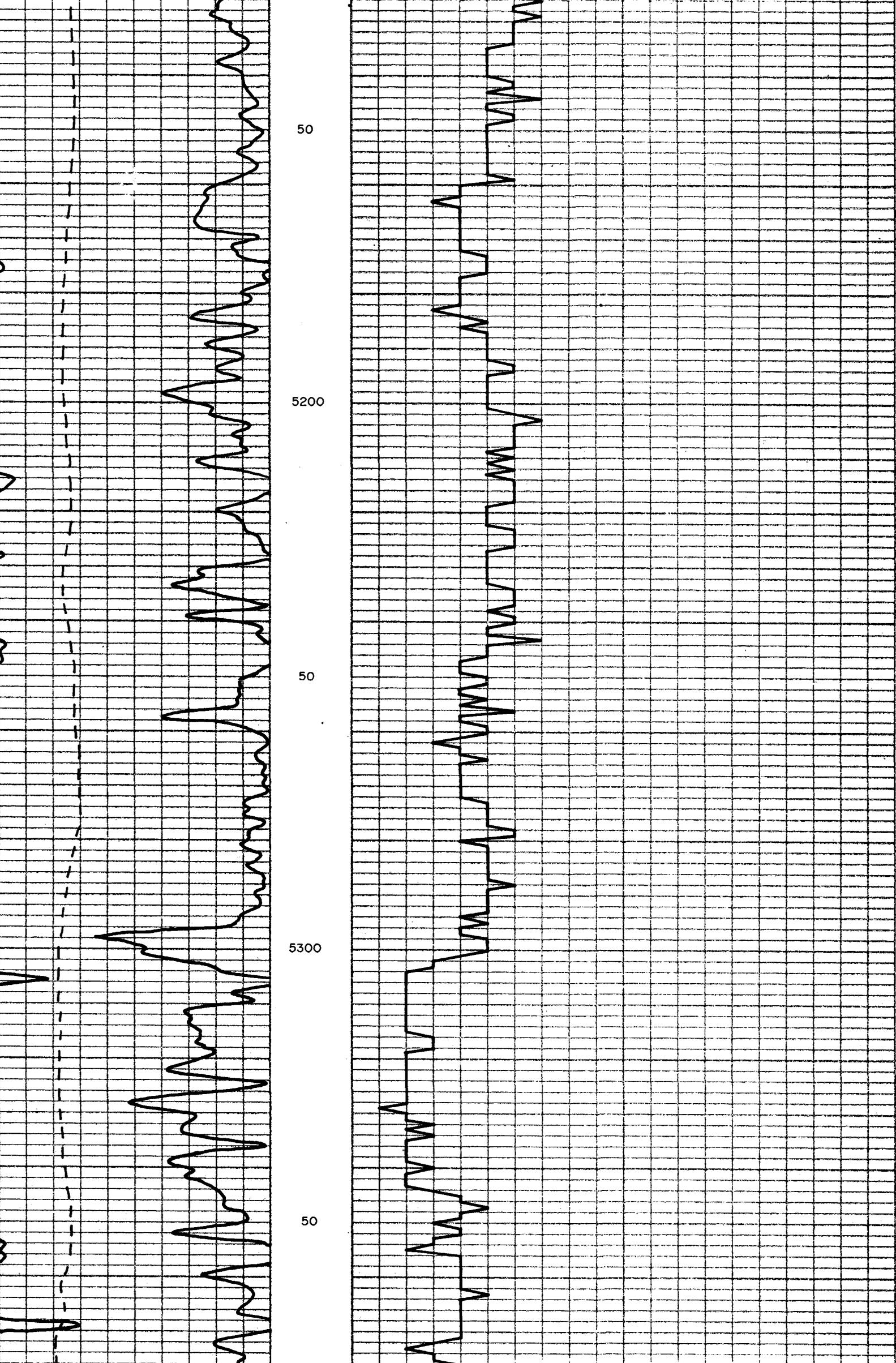
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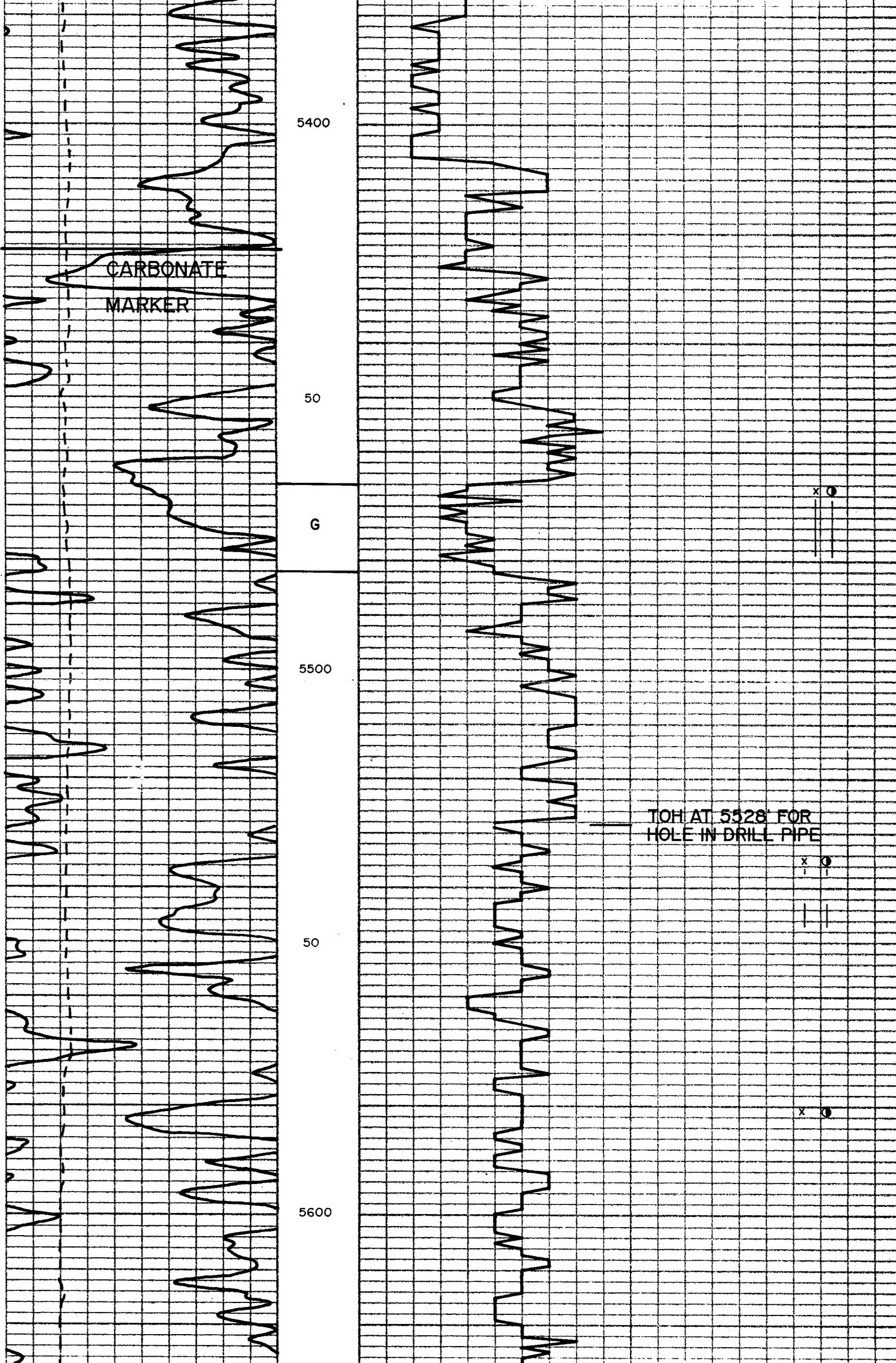
G

5100

G







CARBONATE  
MARKER

5400

50

G

5500

TOH AT 5528' FOR  
HOLE IN DRILL PIPE

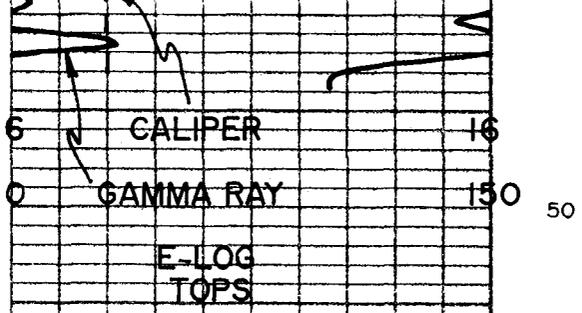
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5600

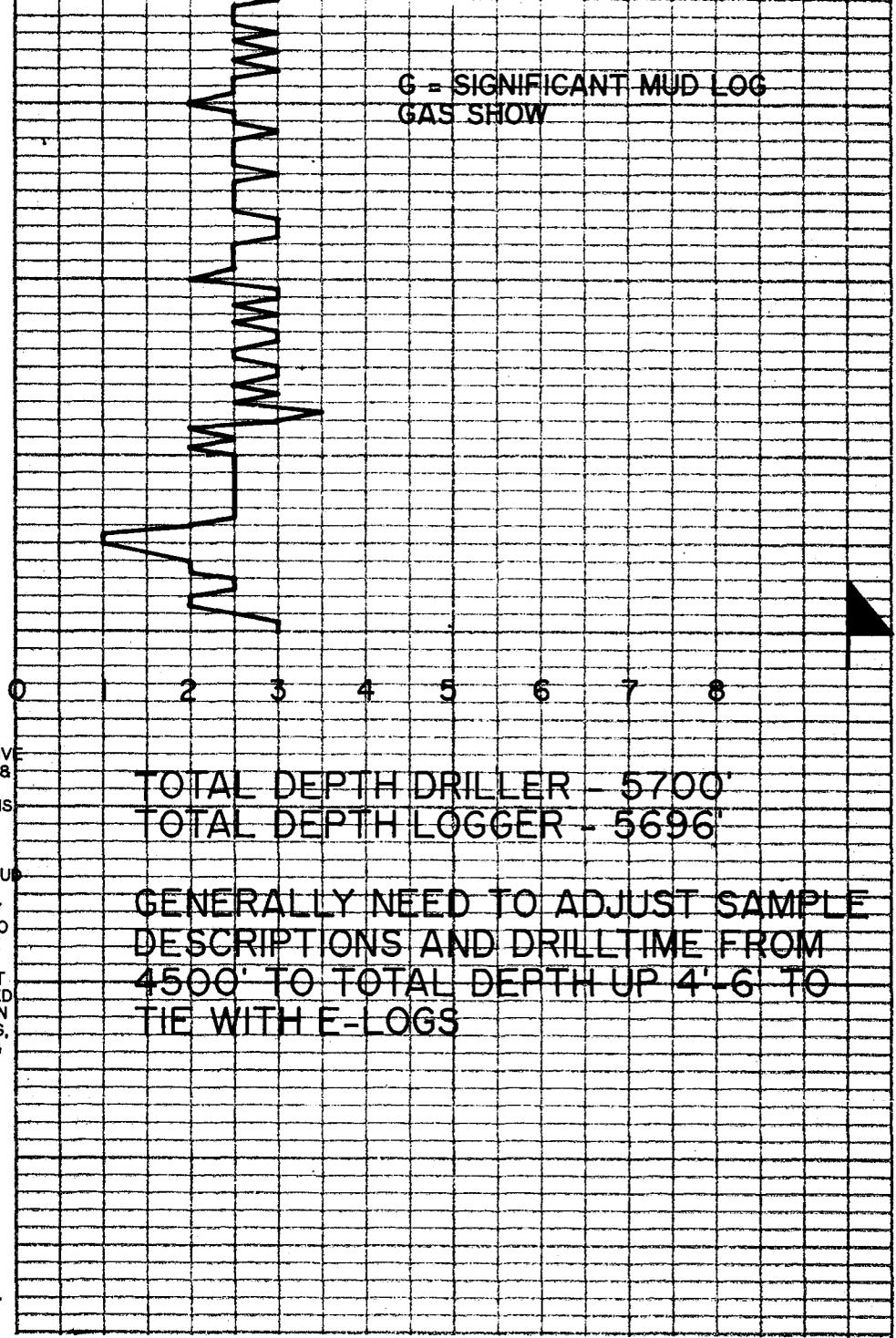
X

X

X



G = SIGNIFICANT MUD LOG  
GAS SHOW



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

TOTAL DEPTH DRILLER - 5700'  
TOTAL DEPTH LOGGER - 5696'

GENERALLY NEED TO ADJUST SAMPLE  
DESCRIPTIONS AND DRILLTIME FROM  
4500' TO TOTAL DEPTH UP 4'-6' TO  
TIE WITH E-LOGS

RECORDING CHARTS GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK No. LC1 3355

**RECEIVED**

JAN 03 1994

DIVISION OF  
OIL, GAS & MINING

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.  
U-44426

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

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.  
Balcron Monument Federal #31-7J

9. API Well No.  
43-013-31405

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

11. County or Parish, State  
Duchesne County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NW NE Section 7, T9S, R17E 831.18' ENL, 1782.38' FEL

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

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

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

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

Attached is our Site Security Diagram for this well.

*RECEIVED*  
JAN 19 1994  
DIVISION OF  
OIL, GAS & MINING

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

Signed Bobbie Schumar Title Coordinator of Environmental and Regulatory Affairs Date 1-18-94

(This space for Federal or State office use)

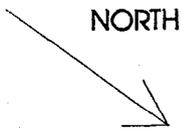
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

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.

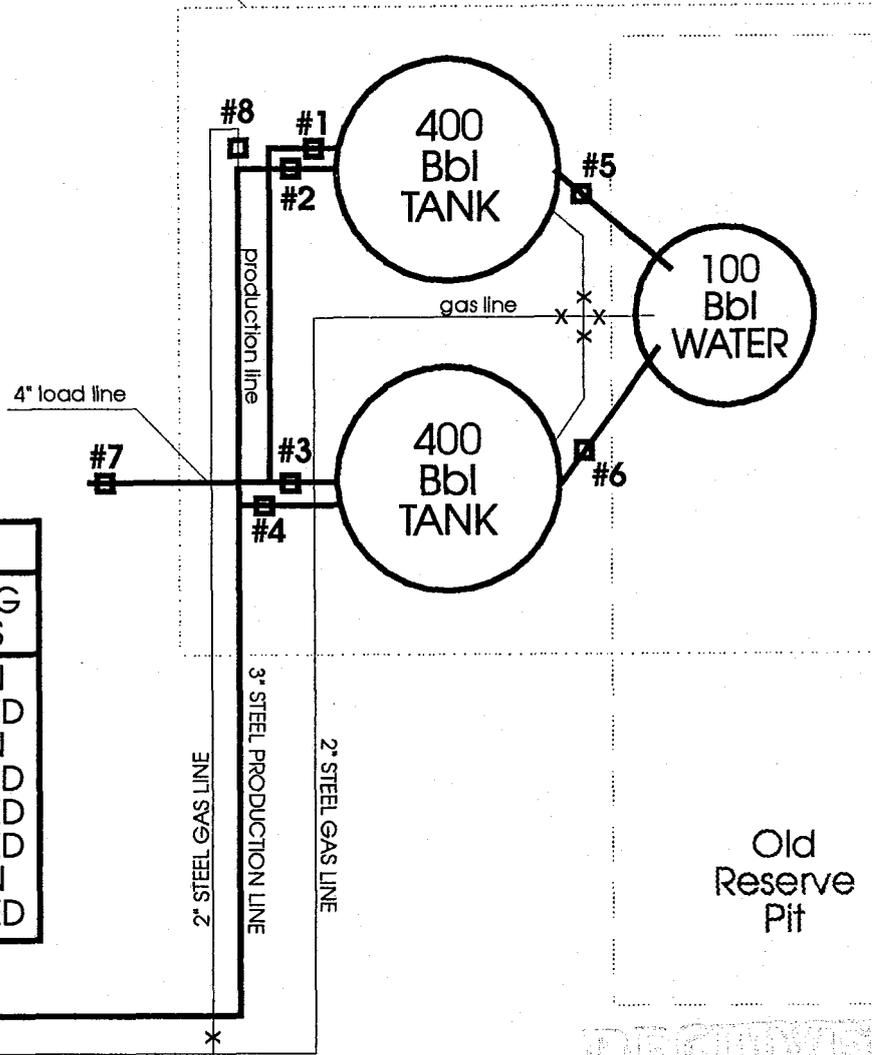
\*See Instruction on Reverse Side

**Equitable Resources Energy Company  
Balcron Monument Federal 31-7J  
Production Facility Diagram**

Balcron Monument Federal 31-7J  
NW NE Sec. 7, T9S, R17E  
Duchesne County, Utah  
Federal Lease #U-44426  
831' FNL, 1782' FEL

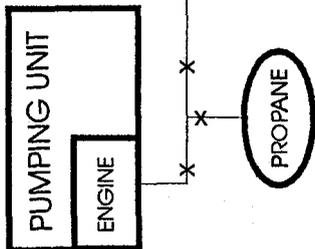


DIKE



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
VALVE #8	CLOSED	CLOSED

WELL HEAD



Old Reserve Pit

*DISCONTINUED*

JAN 19 1994

DIVISION OF  
OIL, GAS & MINING



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
BALCRON OIL DIVISION

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



DIAGRAM NOT TO SCALE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

Budget Category No. 1004-013  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

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

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

**CONFIDENTIAL**

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 831.18' FNL, 1782.38' FEL  
At top prod. interval reported below  
At total depth \_\_\_\_\_

14. PERMIT NO. 43-013-31405  
DATE ISSUED 10-25-93

5. LEASE DESIGNATION AND SERIAL NO.  
U-44426

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

7. UNIT AGREEMENT NAME  
Jonah Unit

8. FARM OR LEASE NAME  
Balcron Monument Butte

9. WELL NO.  
#31-7J

10. FIELD AND POOL, OR WILDCAT  
Monument Butte / Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA  
NW NE Section 7, T9S, R17E

12. COUNTY OR PARISH  
Duchesne

13. STATE  
Utah

15. DATE SPUNDED 10-29-93  
16. DATE T.D. REACHED 12-5-93  
17. DATE COMPL. (Ready to prod.) 12-23-93  
18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* 5298.5' GL  
19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5700'  
21. PLUG, BACK T.D., MD & TVD -5644.74'  
22. IF MULTIPLE COMPL., HOW MANY\* n/a  
23. INTERVALS DRILLED BY → Sfc - TD  
24. ROTARY TOOLS n/a  
25. CABLE TOOLS n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
4903' - 5106' Green River

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DL - MEL - LDT - CNL - CR CBL MUD LOG 12-7-93

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#	282' KB	12-1/4"	150 sxs Class "G" + additives	n/a
5-1/2"	15.5#	5691' 86'	7-7/8"	132 sxs Hilift and 239 sxs Class "G"	r/a

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5192' KB	n/a

31. PERFORATION RECORD (Interval, size and number)

5050' - 55' (2 SPF)	4914' - 17' (2 SPF)
5062' - 64' (2 SPF)	
5080' - 86' (2 SPF)	
5100' - 06' (2 SPF)	
4903' - 10' (2 SPF)	

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5050' - 5106'	30,000# 20/40 sand & 25,000# 16/30 sand in 976 bbls 2% KCL water.
4903' - 4917'	30,300# 16/30 sand in 376 bbls 2% KCL water.

33. PRODUCTION

DATE FIRST PRODUCTION 12-23-93  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump  
WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-1-94	24	n/a	→	50	n/a	50	n/a

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a	→	50	n/a	50	43

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Used for fuel.

TEST WITNESSED BY  
Dale Griffin

35. LIST OF ATTACHMENTS

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

SIGNED Dobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE 1-18-94

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

MICROFILM

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

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.			
				See Geologic Report submitted separately.		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Other In-  
structions on  
reverse side

Expires August 31, 1994

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

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

b. TYPE OF COMPLETION:  NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  REPAIR  Other \_\_\_\_\_

**CONFIDENTIAL**

2. NAME OF OPERATOR  
Equitable Resources Energy Company, Balcon 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 831.18' FNL, 1782.38' FEL  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND NUMBER  
U-44426 **74**

6. IF INDIAN, ALLOTTEE OR TRIBE  
n/a

7. UNIT AGREEMENT NAME  
Jonah Unit

8. FARM OR LEASE NAME  
Balcon Monument Butte

9. WELL NO.  
#31-7J

10. FIELD AND POOL, OR WILDCAT  
Monument Butte / Green

11. SEC. T. R. M., OR BLOCK AND QUARTER AREA  
NW NE Section 7, 19S,

14. PERMIT NO. 43-013-31405 | DATE INSUED 10-25-93

12. COUNTY OR PARISH Duchesne | 13. STATE Utah

15. DATE SPudded 10-29-93 | 16. DATE T.O. REACHED 12-5-93 | 17. DATE COMPL. (Ready to prod.) 12-23-93 | 18. ELEVATIONS (OF, AKB, RT, OR, ETC.)\* 5298.5' GL | 19. ELEV. CASINO n/a

20. TOTAL DEPTH, MD & TVD 5700' | 21. PLUG BACK T.D., MD & TVD 5644.74' | 22. IF MULTIPLE COMPL., HOW MANY\* n/a | 23. INTERVAL DRILLED BY → | 24. ROTARY TOOLS SFC - TD | 25. CABLE TO SURVEY MA n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
4903' - 5106' Green River

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DL - MEL - IDI - ONL - CR

27. WAS WELL CORRECTED? No

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

CASINO RISE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT USED
8-5/8"	24#	282' KB	12-1/4"	150 sxs Class "G" + additives	n/a
5-1/2"	15.5#	5691.86'	7-7/8"	132 sxs lift and 239 sxs Class "G"	r/a

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET
2-7/8"	5192' KB	n/a

31. PERFORATION RECORD (Interval, size and number)

5050' - 55' (2 SPT)	4914' - 17' (2 SPT)
5062' - 64' (2 SPT)	
5080' - 86' (2 SPT)	
5100' - 06' (2 SPT)	
4903' - 10' (2 SPT)	

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USE
5050' - 5106'	30,000# 20/40 sand & 25,000# 16 sand in 976 bbls 2% KCL water.
4903' - 4917'	30,300# 16/30 sand in 376 bbls 2% KCL water.

33. PRODUCTION

DATE FIRST PRODUCTION 12-23-93 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump | WELL STATUS (Producing shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-1-94	24	n/a	→	50	n/a	50	n/a

FLOW, TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CO)
n/a	n/a	→	50	n/a	50	43

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Used for fuel.

TEST WITNESSED BY  
Dale Griffin

35. LIST OF ATTACHMENTS

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

SIGNED: Robbie Schuman TITLE: Coordinator of Environmental and Regulatory Affairs DATE: 1-18-94

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

Title 16 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**

**WELL REPORT**

WELL NAME: Balcron Monument Federal #31-7  
 FIELD: Monument Butte/Jonah Unit  
 FEDERAL LEASE NO.: U-44426  
 LOCATION: NW NE Sec.7,T9S,R17E  
 COUNTY/STATE: Duchesne County, Utah  
 WORKING INTEREST: 0.79942652  
 PRODUCING FORMATION: Green River  
 COMPLETION DATE: 12-23-93  
 INITIAL PRODUCTION: 50 STBOPD, 0 MCFPD, 50 STBWPD  
 OIL/GAS PURCHASER: Amoco/Universal Resources  
 PRESENT PROD STATUS: 30 STBOPD, 0 MCFPD, 20 STBWPD  
 ELEVATIONS - GROUND: 5295'  
 TOTAL DEPTH: 5700' KB

DATE: 2-18-94 lac  
 API NO.: 43-013-31405

NET REVENUE INT.: 0.72981781 Oil  
 0.65881769 Gas  
 SPUD DATE: 10-29-93  
 OIL GRAVITY: 43 API  
 BHT: 129 Deg.F  
 KB: 5308' (13' KB)  
 PLUG BACK TD: 5644.74' KB

**SURFACE CASING**

**PRODUCTION CASING**

STRING: 1  
 CSG SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs.  
 LENGTH: 6 jts. @ 270.08'  
 DEPTH LANDED: 282' KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 150 sxs Class "G"  
 Cement to surface

STRING: 1  
 CSG SIZE: 5 1/2"  
 GRADE: K-55  
 WEIGHT: 15.50 lbs.  
 LENGTH: 132 jts @ 5678.16'  
 DEPTH LANDED: 5691.86' KB  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 132 sxs Hilift &  
 239 sxs Class "G"  
 CEMENT TOP AT: 1830' KB from Daily Report

**TUBING RECORD**

**PERFORATION RECORD**

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5 lbs  
 NO. OF JOINTS: 166 jts @ 5142'  
 TUBING ANCHOR: None  
 NO. OF JOINTS: NA  
 SEATING NIPPLE: 2 7/8" x 1.15'  
 PERF. SUB: 2 7/8" x 4'  
 MUD ANCHOR: 2 7/8" x 31'  
 TOTAL TUBING LENGTH: 5178'  
 SN LANDED AT: 5156' KB

4903'-4910' (7') 2 SPF Green 1  
 4914'-4917' (3') 2 SPF Green 1  
 5050'-5055' (5') 2 SPF Green 3  
 5062'-5064' (2') 2 SPF Green 3  
 5080'-5086' (6') 2 SPF Green 4  
 5100'-5106' (6') 2 SPF Green 4

**SUCKER ROD RECORD**

**BREAKDOWN**

1 - 1 1/4" x 22' Polish Rod  
 2 - 3/4" x 8' Ponies  
 1 - 3/4" x 4' Pony  
 204 - 3/4" x 25' Plain Rods D-61

4903'-4917' - 3024 gals 2% KCL water & 40 ball sealers. Initial break @ 3700 psi @ 3 BPM, back to 2200 psi @ 4.8 BPM, surge ball off, pump for rate 4.8 BPM @ 2500 psi. ISIP @ 1500 psi. Did not work. 500 gal. 15% HCl Acid.  
 5050'-5064' - 40 bbls. 2% KCL water & 28 ball sealers. Initial break @ 4100 psi @ 1.5 BPM, back to 1600 psi @ 3.6 BPM, surge ball off, pump for rate, 5.9 BPM @ 2500 psi. ISIP @ 1100 psi.  
 5080'-5106' - 47 bbls. 2% KCL water & 48 ball sealers. Initial break @ 3200psi @ 1.8 BPM, back to 2200 psi @ 4.0 BPM, surge ball off, pump for rate, 4.5 BPM @ 2400 psi. ISIP @ 1500 psi.

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RWAC  
 STROKE LENGTH: 72"  
 PUMP SPEED, SPM: 6.75  
 PUMPING UNIT SIZE:

**FRAC JOB**

LOGS: Compensated Neutron-Litho-Density Log

\*\*\*SEE NEXT PAGE\*\*\*

Balcron Monument Federal #31-7  
Monument Butte/Jonah Unit  
U-44426  
NW NE Sec.7,T9S,R17E  
Duchesne County, Utah

FRAC JOB

-----  
4903'-4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.

5050'-5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

Balcron Monument Federal #31-7  
Monument Butte/Jonah Unit  
U-44426  
NW NE Sec.7,T9S,R17E  
Duchesne County, Utah

FRAC JOB

-----  
4903'-4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.

5050'-5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

Balcron Monument Federal #31-7  
Monument Butte/Jonah Unit  
U-44426  
NW NE Sec.7,T9S,R17E  
Duchesne County, Utah

FRAC JOB

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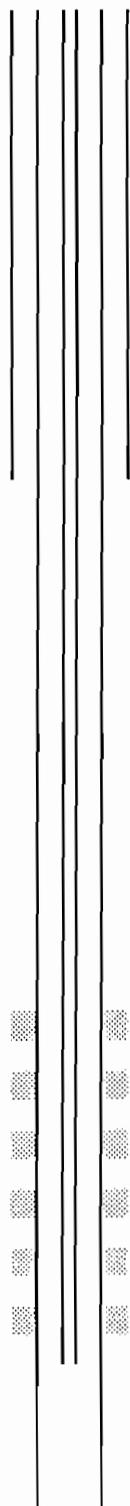
4903'-4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.

5050'-5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

BALCRON MONUMENT FEDERAL #31-7  
NW NE SEC.7,T9S,R17E  
Lease No. U-44426  
MONUMENT BUTTE FIELD/JONAH UNIT  
DUCHESNE COUNTY, UTAH

Balcron Oil  
2-18-94 lac

Wellbore Diagram



SURFACE CASING

8 5/8", J-55, 24#  
Six joints @ 279.08'  
Landed @ 282'KB  
Cemented w/150 sxs Class "G"  
Cement to surface  
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#  
132 jts @ 5678.16'  
Landed @ 5691.86'KB  
Cemented w/132 sxs Hilift &  
239 sxs Class "G"  
Cement Top @ 1830'KB from Daily Report  
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#  
166 jts @ 5142'  
SN - 2 7/8" x 1.15'  
Perf Sub - 2 7/8" x 4'  
Mud Anchor - 2 7/8" x 31'  
Total String Length - 5178'  
SN Landed @ 5156'KB

SUCKER ROD

1 - 1 1/4" x 22' Polish Rod  
2 - 3/4" x 8' Ponies  
1 - 3/4" x 4' Pony  
204 - 3/4" x 25' Plain Rods D-61

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RWAC  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 6.75  
PUMPING UNIT SIZE:  
LOGS: CNLD-DL

LOGS: Compensated Neutron-Litho-Density Log

BREAKDOWN

4903'-4917' - 3024 gals 2% KCL water & 40 ball sealers. Initial break @ 3700 psi @ 3 BPM, back to 2200 psi @ 4.8 BPM, surge ball off, pump for rate 4.8 BPM @ 2500 psi. ISIP @ 1500 psi. Did not work. 500 gal. 15% HCl Acid.

5050'-5064' - 40 bbls. 2% KCL water & 28 ball sealers. Initial break @ 4100 psi @ 1.5 BPM, back to 1600 psi @ 3.6 BPM, surge ball off, pump for rate, 5.9 BPM @ 2500 psi. ISIP @ 1100 psi.

5080'-5106' - 47 bbls. 2% KCL water & 48 ball sealers. Initial break @ 3200psi @ 1.8 BPM, back to 2200 psi @ 4.0 BPM, surge ball off, pump for rate, 4.5 BPM @ 2400 psi. ISIP @ 1500 psi.

FRAC JOB

4903'-4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.  
5050'-5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

PERFORATION RECORD

4903'-4910' (7) 2 SPF Green 1  
4914'-4917' (3) 2 SPF Green 1  
5050'-5055' (5) 2 SPF Green 3  
5062'-5064' (2) 2 SPF Green 3  
5080'-5086' (6) 2 SPF Green 4  
5100'-5106' (6) 2 SPF Green 4

PBTD @ 5644.74' KB  
TD @ 5700' KB

JAN 19 1994  
 DIVISION OF  
 OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

1. Well name and number: Balcron Monument Federal #31-7J  
 API number: 43-013-31405

2. Well location: QQ NW NE section 7 township 9S range 17E county Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division  
 Address: P.O. Box 21017 phone: (406) 259-7860  
Billings, MT 59104

4. Drilling contractor: Nolen Drilling  
 Address: P.O. Box 2222 phone: (406) 252-2591  
Billings, MT 59103

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		No measurable water encountered during drilling operations.	

6. Formation tops: See Geologic Report submitted separately.

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

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

Name Bobbie Schuman Signature Bobbie Schuman  
 Title Coordinator of Environmental and Regulatory Affairs Date 1-18-94

Comments:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. U-44426
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division	6. If Indian, Allottee or Tribe Name n/a
3. Address and Telephone No. P.O. Box 21017, Billings, MT 59104      (406) 259-7860	7. If Unit or CA, Agreement Designation Jonah Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW NE Section 7, T9S, R17E      831.18' ENL, 1782.38' FEL	8. Well Name and No. Balcron Monument Federal #31-7J
	9. API Well No. 43-013-31405
	10. Field and Pool, or Exploratory Area Monument Butte/Green River
	11. County or Parish, State Duchesne County, Utah

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

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

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

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

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

**RECEIVED**  
JAN 19 1994  
DIVISION OF  
OIL, GAS & MINING

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

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 1-18-94

(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

UTAH DIVISION OF OIL, GAS AND MINING  
EQUIPMENT INVENTORY

RECEIVED

JAN 27 1994

DIVISION OF  
OIL, GAS & MINING

Operator: Equitable Resources Lease: State: Federal  Indian Fee: \_\_\_\_\_

Well Name: Monument Fed. 31-7J API Number: 43-013-31405

Section: 7 Township: 9S Range: 17E County: Duchesne Field: Monument Butte

Well Status: POW Well Type: Oil:  Gas:

PRODUCTION LEASE EQUIPMENT:  CENTRAL BATTERY:

Well head  Boiler(s)  Compressor  Separator(s)  
 Dehydrator(s)  Shed(s)  Line Heater(s)  Heated Separator  
 VRU  Heater Treater(s)

PUMPS:  
 Triplex  Chemical  Centrifugal

LIFT METHOD:  
 Pumpjack  Hydraulic  Submersible  Flowing

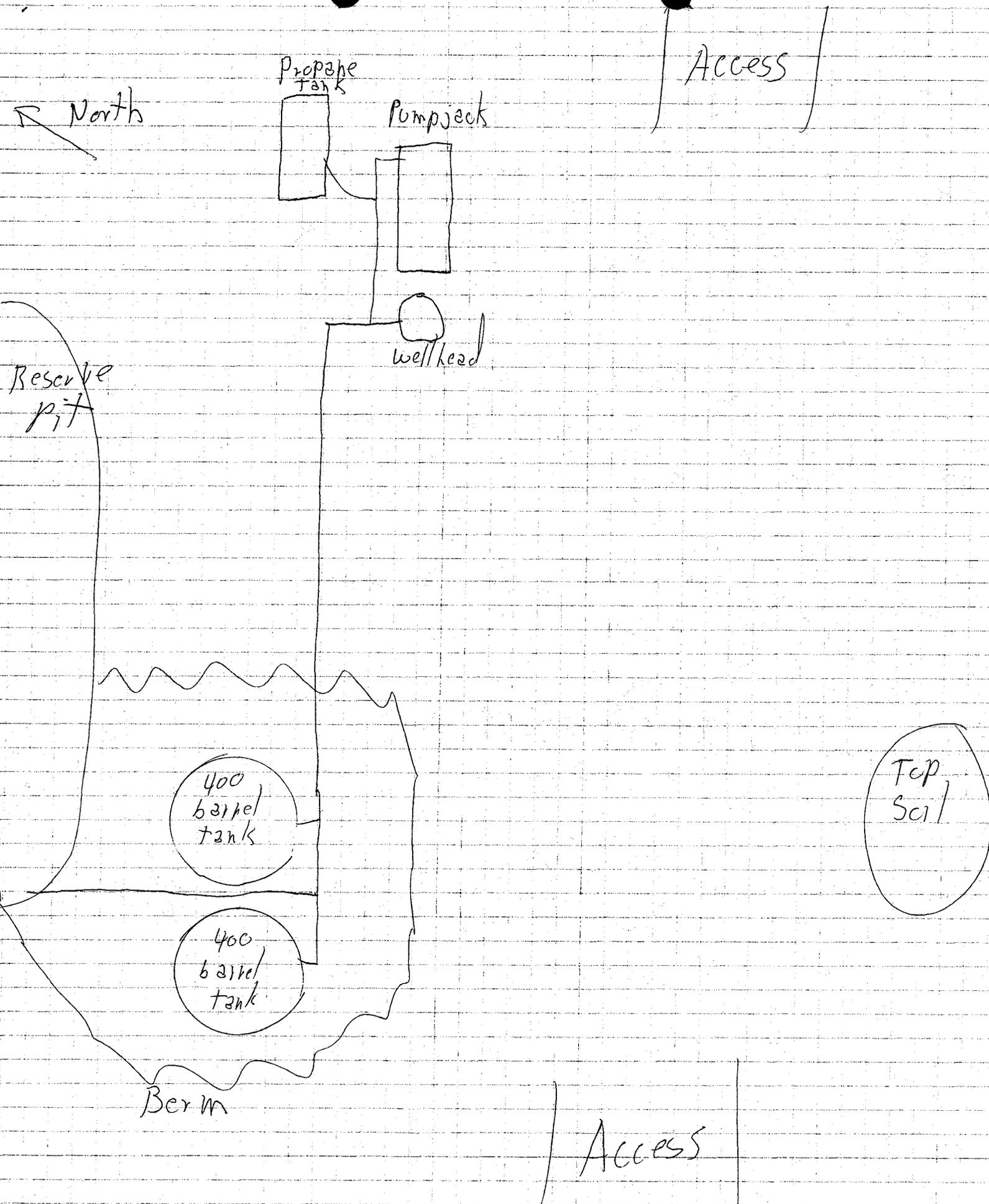
GAS EQUIPMENT:  
 Gas Meters  Purchase Meter  Sales Meter

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

REMARKS: Centrifugal is trace pump. Pit tank on location but not installed yet. Reserve pit open, excess gas venting to pit.

Location central battery: Qtr/Qtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_

Inspector: David W. Hackford Date: 1/19/94



INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: Balcrum (Equitable) Wells 31-7, 24-5, 22-5, 13-5

Location: section 5 & 7 township 9S range 17E

API #: \_\_\_\_\_ Well Type: disp. \_\_\_\_\_ enhanced recov. X

If enhanced recovery has project been approved by the Board? Yes

Lease Type: BLM Surface Ownership: BLM

Field: Monument Butte Unit: Jordan Indian Country: N

UIC Form 1: Yes Plat: Yes Wells in AOR: 15 P 13 I  
*(need more detail than provided)*

Logs Available: Yes Bond Log: no log on 24-5

Casing Program: Diagrams - however went prior and after conversion.

Integrity Test: to be done at conversion. 1000 PSI not 500

Injection Fluid: H<sub>2</sub>O. Johnson Water.

Geologic Information: Yes.

Analyses of Injection Fluid: Yes Formation Fluid: Yes Compat. \_\_\_\_\_

Fracture Gradient Information: Yes. 1.861 Parting Pressure \_\_\_\_\_  
2000 600 GALS

Affidavit of Notice to Owners: Yes.

Fresh Water Aquifers in Area: 300-500 feet.

Depth Base of Moderately Saline Water: 300-500 feet.

Confining Interval: shales, silts, limes.

Reviewer: D. Jones Date: 4/6/94.

Comments & Recommendation Bond logs are questionable called  
John Zebetti 4/11/94 and requested more  
info. Also requested Bond log on 5-24 well.

4/12/94 spoke to CRAIG PERRY Schlumberger  
in regards to Bond logs - Wells have bond.

(received 4/12/94)



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

**BALCRON OIL DIVISION**

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

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

March 11, 1994

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
Salt Lake City, UT 84180

Dear Mr. Jarvis:

Attached are Applications for Injection Well (UIC Form 1) for the following wells:

Balcron Monument Federal #31-7

Balcron Monument Federal #24-5

Balcron Monument Federal #22-5

Balcron Monument Federal #13-5

A copy of the EPA permit was sent to you earlier this week. We will be sending notice of this application to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well. We will forward a copy of that notice along with our Affidavit certifying that they were sent as soon as it has been done.

Sincerely,

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Attachments

96107  
MAR 11

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well name and number: Balcron Monument Federal #31-7  
Field or Unit name: Monument Butte Field/Jonah Unit Lease no. U-44426  
Well location: QQ NW NE section 7 township 9S range 17E county Duchesne

Is this application for expansion of an existing project? . . Yes  No   
Will the proposed well be used for: Enhanced Recovery? . . Yes  No   
Disposal? . . . . . Yes  No   
Storage? . . . . . Yes  No   
Is this application for a new well to be drilled? . . . . . Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No   
Date of test: \_\_\_\_\_  
API number: 43-013-31405

Proposed injection interval: from 4903' to 4910' 5062' to 5064'  
4914' to 4917' to 5080' to 5086'  
5050' to 5055' 5100' to 5106'  
Proposed maximum injection: rate 600 STB/WD pressure 2000 psig

Proposed injection zone contains  oil,  gas, and/or  fresh water within 1/2 mile of the well.

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

List of Attachments: \_\_\_\_\_

I certify that this report is true and complete to the best of my knowledge.  
Name Bobbie Schuman Signature Bobbie Schuman  
Title Coordinator of Environmental Date 3-11-94  
Phone No. (406)259-7860 and Regulatory Affairs

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

Comments:

MAR 14 1994

# AFFIDAVIT OF PUBLICATION

*Copy*

County of Duchesne,  
STATE OF UTAH

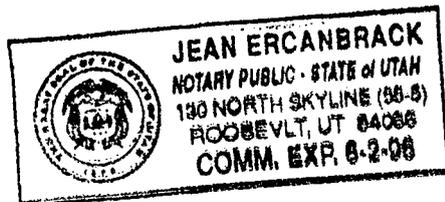
I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 consecutive issues, and that the first publication was on the 3 day of May, 1994, and that the last publication of such notice was in the issue of such newspaper dated the 3 day of May, 1994.

Subscribed and sworn to before me this

5 day of May, 1994

*Jean Ercanbrack*

Notary Public



## NOTICE OF AGENCY ACTION

CAUSE NO. UIC-149

IN THE MATTER OF THE APPLICATION OF EQUITABLE RESOURCES ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL TO CONVERT THE FEDERAL 24-5, FEDERAL 22-5, FEDERAL 13-5, AND FEDERAL 31-7 WELLS LOCATED IN SECTIONS 5 & 7, TOWNSHIP 9 SOUTH, RANGE 17 EAST, S.L.M., DUCHESNE COUNTY, UTAH, TO CLASS II INJECTION WELLS

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Equitable Resources Energy Company ("Equitable") for administrative approval to convert the Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells, located in Sections 5 & 7, Township 9 South, Range 17 East, Duchesne County, Utah, to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

Equitable proposes to inject water into the captioned wells in the Green River Formation interval at approximately 4638 - 5110 feet, for the purpose of secondary recovery operations. Equitable is requesting a maximum injection pressure of 2145 psig and estimates the injection volume to be approximately 600 barrels of water per day for each well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interest.

DATED this 15th day of April, 1994.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING R.J. Firth Associate Director, Oil and Gas

Published in the Uintah Basin Standard May 3, 1994

COPY

LEGAL ADVERTISING INVOICE

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV OF OIL, GAS & MINING 355 WEST NORTH TEMPLE 3 TRIAD CENTER #350 SLC, UT 84	LE-5385340	05/03/94
		FOR BILLING INFORMATION CALL (801) 237-2822

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE NO. UIC-149BEFOR FOR DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON MAY 03 1994

SIGNATURE \_\_\_\_\_

05/03/94

NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-149  
BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

ACCOUNT NAME	TELEPHONE	
DIV OF OIL, GAS & MINING	801-538-5340	
SCHEDULE	AD NUMBER	
	4T820040	
CAPTION	MISC. CHARGES	
NOTICE OF AGENCY ACTION CAUSE NO. UIC-149BEFOR	.00	
TIMES	RATE	AD CHARGE
COLUMN 1	1.64	154.16
TOTAL RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE
		154.16

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LE-5385340	4T820040	05/03/94	154.16

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DIV OF OIL, GAS & MINING  
355 WEST NORTH TEMPLE  
3 TRIAD CENTER #350  
SLC, UT 84180

OFFICE COPY

07642470620040900000000000000015416187535817311510111111111111111126527

PLEASE REMOVE THIS STUB

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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	NOTICE OF AGENCY ACTION
OF EQUITABLE RESOURCES ENERGY	:	
COMPANY FOR ADMINISTRATIVE	:	CAUSE NO. UIC-149
APPROVAL TO CONVERT THE FEDERAL	:	
24-5, FEDERAL 22-5, FEDERAL 13-5,	:	
AND FEDERAL 31-7 WELLS LOCATED IN	:	
SECTIONS 5 & 7, TOWNSHIP 9 SOUTH,	:	
RANGE 17 EAST, S.L.M., DUCHESNE	:	
COUNTY, UTAH, TO CLASS II INJECTION	:	
WELLS	:	

---ooOoo---

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Equitable Resources Energy Company ("Equitable") for administrative approval to convert the Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells, located in Sections 5 & 7, Township 9 South, Range 17 East, Duchesne County, Utah, to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

Equitable proposes to inject water into the captioned wells in the Green River Formation interval at approximately 4638 - 5110 feet, for the purpose of secondary recovery operations. Equitable is requesting a maximum injection pressure of 2145 psig and estimates the injection volume to be approximately 600 barrels of water per day for each well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of April, 1994.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
\_\_\_\_\_  
R.J. Firth  
Associate Director, Oil and Gas

**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT  
DECISION DOCUMENT**

**Applicant:** Balcron Oil      **Location:** Jonah Unit

**Wells:** Federal 31-7, 24-5, 22-5, 13-5

**Ownership Issues:** The proposed wells are located in sections 7 and 5, township 9 south, range 17 east, Duchesne County, Utah. Surface ownership within the 1/2 mile area is held by the BLM and the State of Utah. All of the wells are located on Federal land. Mineral interests are held by private individuals, the State of Utah, and the federal government. Balcron Oil has submitted an affidavit stating that a copy of UIC form 1 was sent as notice to all surface owners and operators within a 1/2 mile radius of each of the proposed injection wells.

**Well Integrity:** The five wells proposed for conversion to injection all have surface casing set at approximately 300 feet  $\pm$  30 feet, and were all cemented to surface. Production casing was set at a depth of approximately 5600 feet - 5800 feet, and were all cemented above the injection zone. Cement bond logs are on file with the Division and verify reported cement tops. The interval from 4638-5110 feet (Green River Formation) has been perforated for water injection. A 2 7/8 inch tubing with a packer will be set above the perforations for injection of water. There are 14 producing wells and 10 injection wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the production string and have adequate surface casing to prevent migration of fluid up the hole. At the time of conversion the casing will be pressure tested. Casing/tubing annulus pressure will be monitored on a daily basis and reported on a monthly basis thereafter. Additional casing pressure tests shall be run every five years or whenever the tubing and packer assemblies are pulled for workover purposes.

**Ground Water Protection:** The base of moderately saline water in the area of the project is at a depth of approximately 300-500 feet. Each of the injection wells and offset producing wells have adequate surface casing and sufficient cement on the production casing to protect fresh water. The submitted fracture pressure for the field is .861 psi/ft resulting in a maximum allowed surface pressure of 2000 psi. Injection pressures for each of the injectors will be maintained below the fracture pressure so as not to initiate fractures in the overlying strata. The confining intervals above and below the injection zone consists of tight shales, siltstones and limestones of the Green River Formation. Water analysis indicate that the TDS of injection zone is greater than 10,000 TDS.

**Oil/Gas & Other Mineral Resources Protection:** Balcron is the operator of the Jonah Unit. A unit agreement was previously formed, correlative rights issues were addressed

before the Board of Oil, Gas and Mining when the matter was heard.

**Bonding:** Balcron is the operator of all wells within the project and is bonded by the Federal Government.

**Actions Taken and Further Approvals Needed:** A public notice needs to be published in both the Salt Lake Tribune and the Uinta Basin Standard. The applications for the injection wells are technically complete. A casing pressure test needs to be conducted when the well is converted and a casing\tubing pressure test run prior to injection. The casing tubing annulus needs to be pressured to 1000 psi and not 500 psi as stated in the permit. A step rate test should be run once the wells have injected and stabilized to verify fracture gradient information.

DJJ  
Reviewers

04-14-94  
Date



**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)

April 25, 1994

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-149

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement  
Administrative Secretary

Enclosure  
WOI168



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)

April 25, 1994

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-149

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement  
Administrative Secretary

Enclosure  
WOI168

**Equitable Resources Energy Company  
Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells  
Cause No. UIC-149**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

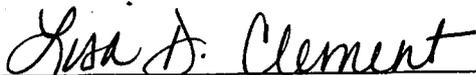
Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

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

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

Tom Pike  
U.S. Environmental Protection Agency  
Region VIII  
999 18th Street  
Denver, Colorado 80202-2466

Ed Bonner  
State Lands and Forestry  
3 Triad Center, Suite 400  
Salt Lake City, Utah 84180-1204



---

Lisa D. Clement  
Administrative Secretary  
April 25, 1994



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)

May 24, 1994

Equitable Resources Energy Company  
Balcron Oil Division  
1601 Lewis Avenue  
Billings, Montana 59104

Re: Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells Located in Sections 5 and 7, Township 9 South, Range 17 East, Duchesne County, Utah

Gentlemen:

In accordance with Utah Admin. Code R.649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells.

The following stipulations shall apply for compliance with this approval:

1. Full compliance with all applicable requirements regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.
2. Conformance with all conditions and requirements of the enclosed Underground Injection Control Permit and the application submitted by Equitable Resources Energy Company.

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth  
Associate Director

cc: Dan Jackson, EPA  
Bureau of Land Management, Vernal





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)

**UNDERGROUND INJECTION CONTROL PERMIT**

**Cause No. UIC-149**

**Operator:** Equitable Resources Company  
**Wells:** Federal 24-5, Federal 22-5, Federal 13-5 and  
Federal 31-7  
**Location:** Sections 5 and 7, Township 9 S, Range 17 E,  
Duchesne County  
**API No.:** 43-013-31375, 43-013-31384  
43-013-31370, 43-013-31405  
**Well Type:** Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Wells issued on May 24, 1994.
2. Maximum Allowable Injection Pressure: 2145 psig
3. Maximum Allowable Injection Rate: 600 barrels per day

Approved by:

R.J. Firth  
Associate Director, Oil and Gas

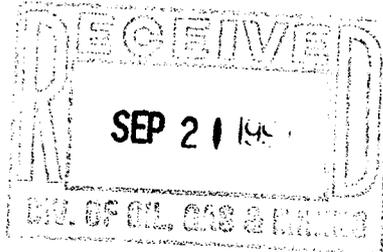
Date



**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

September 19, 1994

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

Enclosed are Notices of Intent to convert the four wells on the enclosed list to water injection.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Dan Jarvis, Utah Division of Oil, Gas and Mining

Balcron Monument Federal #13-5  
NW SW Section 5, T9S, R17E  
Duchesne County, Utah  
1980' FNL, 660' FWL  
Federal Lease #U-020252  
API #43-013-31370  
Jonah Unit  
Monument Butte Field/Green River Formation

Balcron Monument Federal #22-5  
SE NW Section 5, T9S, R17E  
Duchesne County, Utah  
1853' FNL, 1980' FWL  
Federal Lease #U-020252  
API #43-013-31384  
Jonah Unit  
Monument Butte Field/Green River Formation

Balcron Monument Federal #24-5  
SE SW Section 5, T9S, R17E  
Duchesne County, Utah  
765' FSL, 2243' FWL  
Federal Lease #U-020252  
API #43-013-31375  
Jonah Unit  
Monument Butte Field/Green River Formation

Balcron Monument Federal #31-7J  
NW NE Section 7, T9S, R17E  
Duchesne County, Utah  
831' FNL, 1782' FEL  
Federal Lease #U-44426  
API #43-013-31405  
Jonah Unit  
Monument Butte Field/Green River Formation

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 21 1994

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

3. Lease Designation and Serial No.  
See attached listing

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

**SUBMIT IN TRIPLICATE**

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.  
See attached listing

9. API Well No.  
See attached listing

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

11. County or Parish, State  
Duchesne County, UTAH

Type of Well  
 Oil Well  Gas Well  Other

Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

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

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

See attached listing

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> 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 checked="" 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.)\*

Operator intends to convert the wells on the attached listing to water injection in accordance with the attached injection well completion diagrams. Water will be injected at a rate of 5-6 STBWPDP per foot of pay (average 180-200 STBWPDP). The proposed conversion will commence as soon as approval is received from the BLM and the State of Utah. Injection will commence as soon as approval of the UIC permit is received.

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

Signed Bobbie Schuman  
Bobbie Schuman  
(This space for Federal or State office use)

Regulatory and  
Title Environmental Specialist

Date 9-17-94

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

Title \_\_\_\_\_

Date \_\_\_\_\_

BALCRON MONUMENT FEDERAL #31-7  
 NW NE SEC.7, T9S, R17E  
 Lease No. U-44426  
 MONUMENT BUTTE FIELD/JONAH UNIT  
 DUCHESNE COUNTY, UTAH

BALCRON OIL  
 8-1-94

Proposed Injection well Completion Diagram

Elev.GR @ 5295'  
 Elev.KB @ 5308' (13' KB)

SURFACE CASING

8 5/8", J-55, 24#  
 Six joints @ 279.08'  
 Landed @ 282'KB  
 Cemented w/150 sxs Class "G"  
 Cement to surface  
 Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#  
 132 jts @ 5678.16'  
 Landed @ 5691.86'KB  
 Cemented w/132 sxs Hilift &  
 239 sxs Class "G"  
 Cement Top @ 1830'KB from Daily Report  
 Hole Size @ 7 7/8"

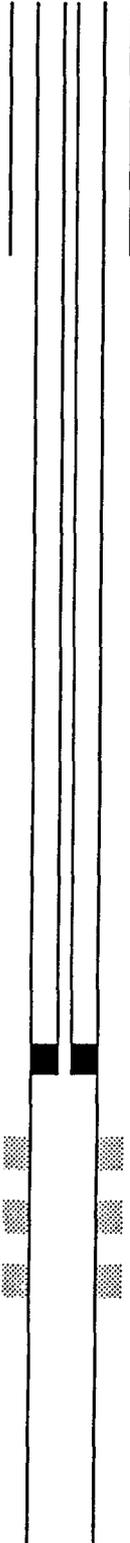
TUBING

2 7/8", J-55, 6.5#  
 SN @ 2 7/8" x 1.10'  
 SN Landed @ 4840' KB

Retrievable Csg Tension Packer  
 Model: Arrow Set-1  
 Landed @ 4844' KB

Proposed Injection Horizons

4903'- 4910' (7') 2 SPF	GREEN1
4914'- 4917' (3') 2 SPF	GREEN1
5050'- 5055' (5') 2 SPF	GREEN3
5062'- 5064' (2') 2 SPF	GREEN3
5080'- 5086' (6') 2 SPF	GREEN4
5100'- 5106' (6') 2 SPF	GREEN4



← 282' KB

- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

← Retrievable Csg Tension Packer @ 4844' KB

PERFORATION RECORD

4903'- 4910' (7') 2 SPF	GREEN1
4914'- 4917' (3') 2 SPF	GREEN1
5050'- 5055' (5') 2 SPF	GREEN3
5062'- 5064' (2') 2 SPF	GREEN3
5080'- 5086' (6') 2 SPF	GREEN4
5100'- 5106' (6') 2 SPF	GREEN4

- Douglas Creek Member 4100 - 5350 ft.  
 - Wasatch Fm. Transition 5350 - 6000ft.  
 PBD @ 5645' KB  
 TD @ 5700' KB  
 - Wasatch Formation 6000 ft.



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

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

OCT 18

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

October 17, 1994

-- VIA FEDERAL EXPRESS --

Mr. Gus Stolz  
Environmental Protection Agency  
UIC Program (Mail Code 8WM-DW)  
999 - 18th Street  
Suite 500  
Denver, CO 80202-2405

Dear Mr. Stolz:

Enclosed are Well Rework Records and copies of the Mechanical Integrity Tests which were run on the following wells:

Balcron Monument Federal #13-5J  
Balcron Monument Federal #22-5J  
Balcron Monument Federal #31-7J  
Balcron Monument Federal #24-5J

Also enclosed are the original charts for these wells. This should complete the necessary paperwork and we are requesting verbal approval to commence injection as soon as possible.

If you have any questions, please give either me or John Zellitti a call at (406) 259-7860.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining  
Bureau of Land Management, Vernal District

MICROFICHE



# United States Department of the Interior

TAKE PRIDE IN AMERICA  
IN REPLY REFER TO:

## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

Phone (801) 789-1362

FAX (801) 789-3634

### MECHANICAL INTEGRITY PRESSURE TEST CASING/TUBING ANNULUS

Lease No. 14426 Unit 72085A

Company Name: R. L. Loran

Date: 10-14-94

Well Name: Monument Buttes 31-7T Permit No. UTU-2642-04211

Field Name: Monument Buttes County: Duchesne

Well Location: N10 / NE Sec 7 T 9S R 17E

Well Type: SWD ER 2H Other: Injector

Type of Packer: Annular Set 1 Total Depth: 5700

Packer Set at (depth): 4837 FT

Surface Casing Size: 8 5/8 From: Surface FT to 282 FT

Casing Size: 5 1/2 From: Surface FT to 5691 FT

Tubing Size: 2 7/8 Tubing Pressure during Test: 500 psig

Time of Day: 12:35 am/pm

Fluid in Annulus: 55 gal Cortran R-2383 Fluid mixed w/ 75 BBIs. 2% KCL water

	Test #1	Test #2
0 Min:	<u>1075</u> psig	<u>          </u> psig
5	<u>1075</u> psig	<u>          </u> psig
10	<u>1075</u> psig	<u>          </u> psig
15	<u>1075</u> psig	<u>          </u> psig
20	<u>1075</u> psig	<u>          </u> psig
25	<u>1080</u> psig	<u>          </u> psig
30	<u>1080</u> psig	<u>          </u> psig
35	<u>1080</u> psig	<u>          </u> psig
40	<u>1080</u> psig	<u>          </u> psig
45	<u>1080</u> psig	<u>          </u> psig
50	<u>1080</u> psig	<u>          </u> psig
55	<u>1080</u> psig	<u>          </u> psig
60	<u>1080</u> psig	<u>          </u> psig

Test Conducted by: Dale Griffin

**OCT 18**

Inspected by: A. Walker

Others Present: NSP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

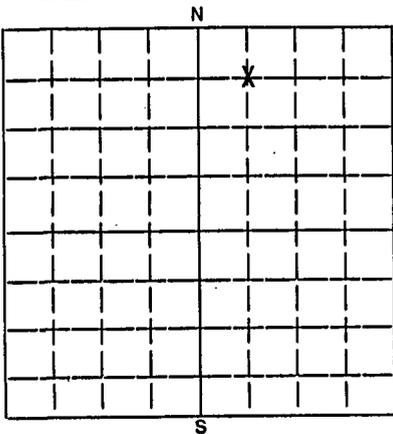


### WELL REWORK RECORD

**NAME AND ADDRESS OF PERMITTEE** Equitable Resources Energy  
Company, Balcron Oil Division  
P.O. Box 21017  
Billings, MT 59104

**NAME AND ADDRESS OF CONTRACTOR**  
Basin Swabbing and Well Service (Rig #4)  
Rt. 2, Box 2876  
Roosevelt, UT 84066

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES



STATE <b>UTAH</b>	COUNTY <b>Uintah</b>	PERMIT NUMBER <b>UT2642-04211</b>
SURFACE LOCATION DESCRIPTION ¼ OF <b>NW</b> ¼ OF <b>NE</b> ¼ SECTION <b>7</b> TOWNSHIP <b>9S</b> RANGE <b>17E</b>		
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location <b>831</b> ft. from (N/S) <b>N</b> Line of quarter section and <b>1782</b> ft. from (E/W) <b>E</b> Line of quarter section		
WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	Total Depth Before Rework <b>5700'</b> Total Depth After Rework <b>Same</b> Date Rework Commenced <b>10/4/94</b> Date Rework Completed <b>10/4/94</b>	TYPE OF PERMIT <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Area Number of Wells <b>13</b> Well Number <b>#31-7J</b>
Lease Name <b>Balcron Monument Federal</b>		

#### WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8"	282'	150	G			See attached well data sheet for perforations and frac data
5-1/2"	5692'	132	Hilift			
		239	G			

#### WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
						No additional work

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

Convert well to injection by setting an Arrow set-1 packer on 2-7/8" tubing at 4845' KB and loading backside w/Corton-2383 packer fluid.

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

#### CERTIFICATION

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

NAME AND OFFICIAL TITLE (Please type or print)  
**Bobbie Schuman**  
Regulatory and Environmental Specialist

SIGNATURE  
*Bobbie Schuman*

DATE SIGNED  
*October 17, 1994*

**BALCRON OIL**

WELL NAME: Balcron Monument Federal #31-7J  
 FIELD: Monument Butte/Jonah Unit  
 FEDERAL LEASE NO.: U-44426  
 LOCATION: NW NE Sec.7, T9S, R17E  
 COUNTY/STATE: Duchesne County, Utah  
 WORKING INTEREST: 0.805079506  
 PRODUCING FORMATION: Green River  
 COMPLETION DATE: 12-23-93  
 INITIAL PRODUCTION: 50 STBOPD, 30 MSCFGPD, 50 STBWPD  
 OIL/GAS PURCHASER: Amoco/Universal Resources  
 PRESENT PROD STATUS: 6.67 STBOPD, 30 MCFPD, 0 STBWPD  
 ELEVATIONS - GROUND: 5295'  
 TOTAL DEPTH: 5700' KB

**SURFACE CASING**

STRING: 1  
 CSG SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs.  
 LENGTH: 6 jts. @ 270.08'  
 DEPTH LANDED: 282' KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 150 sxs Class "G"  
 Cement to surface

**TUBING RECORD**

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5 lbs  
 NO. OF JOINTS: 166 jts @ 5142'  
 TUBING ANCHOR: None  
 NO. OF JOINTS: NA  
 SEATING NIPPLE: 2 7/8" x 1.0'  
 PERF. SUB: 2 7/8" x 4'  
 MUD ANCHOR: 2 7/8" x 31'  
 TOTAL TUBING LENGTH: 5178'  
 SN LANDED AT: 5156' KB

**SUCKER ROD RECORD**

1 - 1 1/4" x 22' Polish Rod  
 2 - 3/4" x 8' Ponies  
 1 - 3/4" x 4' Pony  
 204 - 3/4" x 25' Plain Rods D-61

Last Workover 4-26-94, pump change.

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RWAC #1050  
 STROKE LENGTH: 72"  
 PUMP SPEED, SPM: 6.5  
 PUMPING UNIT SIZE:

LOGS: Compensated Neutron-Litho-Density Log

**WELL REPORT**

DATE: 5-4-94 JZ  
 API NO.: 43-013-31405

NET REVENUE INT.: 0.73831617 Oil  
 0.66359285 Gas  
 SPUD DATE: 10-29-93  
 OIL GRAVITY: 43 API  
 BHT: 129 Deg.F  
 KB: 5308' (13' KB)  
 PLUG BACK TD: 5644.74' KB

**PRODUCTION CASING**

STRING: 1  
 CSG SIZE: 5 1/2"  
 GRADE: K-55  
 WEIGHT: 15.50 lbs.  
 LENGTH: 132 jts @ 5678.16'  
 DEPTH LANDED: 5691.86' KB  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 132 sxs Hilift &  
 239 sxs Class "G"  
 CEMENT TOP AT: 1830' KB from Daily Report

**PERFORATION RECORD**

4903'- 4910' (7') 2 SPF	GREEN1
4914'- 4917' (3') 2 SPF	GREEN1
5050'- 5055' (5') 2 SPF	GREEN3
5062'- 5064' (2') 2 SPF	GREEN3
5080'- 5086' (6') 2 SPF	GREEN4
5100'- 5106' (6') 2 SPF	GREEN4

**BREAKDOWN**

4903'- 4917', 3024 gals 2% KCL water & 40 ball sealers. Initial break @ 3700 psi @ 3 BPM, back to 2200 psi @ 4.8 BPM, surge ball off, pump for rate 4.8 BPM @ 2500 psi. ISIP @ 1500 psi. Did not work. 500 gal. 15% HCl Acid.  
 5050'- 5064', 40 bbls. 2% KCL water & 28 ball sealers. Initial break @ 4100 psi @ 1.5 BPM, back to 1600 psi @ 3.6 BPM, surge ball off, pump for rate, 5.9 BPM @ 2500 psi. ISIP @ 1100 psi.  
 5080'- 5106', 47 bbls. 2% KCL water & 48 ball sealers. Initial break @ 3200psi @ 1.8 BPM, back to 2200 psi @ 4.0 BPM, surge ball off, pump for rate, 4.5 BPM @ 2400 psi. ISIP @ 1500 psi.

**FRAC JOB**

\*\*\*SEE NEXT PAGE\*\*\*

Balcron Monument Federal #31-7J  
N/W NE Sec.7, T9S, R17E  
Federal Lease #U-44426  
Monument Butte/Jonah Unit  
Duchesne County, Utah

FRAC JOB

---

4903'- 4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.

5050'- 5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

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.

U-44426

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or C.A. Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #31-7J

9. API Well No.

43-013-31405

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other WIW

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 (Fooseg, Sec., T., R., M., or Survey Description)

NW NE Section 7, T9S, R17E

831' FNL, 1782' FEL

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

TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

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

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

This well has been converted to water injection in accordance with permit approval. Refer to the attached workover procedure, well report, and injection well completion diagram for details of the conversion.

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

Signed Bobbie Schuman

Title Regulatory and Environmental Specialist

Date January 13, 1995

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Balcron Monument Federal #31-7J  
Jonah Unit/Monument Butte Field  
NW NE Section 7, T9S, R17E  
Ducshesne County, Utah

WELL HISTORY REPORT

Date Work Description

---

Conversion of well to water injection

- 10-4-94 - MIRU Cannon Well Service, TOOH w/rods,pump, & tbg.  
- RIH w/bit & scrapper to TD.  
- RIH w/ 2 7/8" injection tbg & Arrow Set-1 packer.  
- Pump 55 gals Champion Cortron #23-83 corrosion inhibitor mixed w/ 60 STBW down csg.  
- Set packer @ 4845' KB, NU wellhead, pressure test csg annulus to 1000 psig, no loss, RDMO.
- 10-14-94 Perform MIT, pressure csg annulus to 1075 psig for one hour, no loss, tbg @ 500 psig, BLM witness Alan Walker, Company witness Dale Griffin, other witness Ken Adler w/ Adler Hot Oil Service.
- 10-19-94 RU Alnigther Hot Oil Service, mix 5 gals Wsetern Claymaster & 10 gals 940 surfactant w/ 130 STB 2% KCl water, pump down tbg @ 180 deg.F., 1.5 STBPM @ 1100 psig, csg @ zero psig, start water injection @ 275 STBPD.

BALCRON MONUMENT FEDERAL #31-7  
 NW NE SEC.7, T9S, R17E  
 831' FNL & 1782' FEL  
 Lease No. U-44426  
 MONUMENT BUTTE FIELD/JONAH UNIT  
 DUCHESNE COUNTY, UTAH

BALCRON OIL  
 1-10-94 JZ

Injection Well Completion Diagram

Elev.GR @ 5295'  
 Elev.KB @ 5308' (13' KB)

SURFACE CASING

8 5/8", J-55, 24#  
 Six joints @ 279.08'  
 Landed @ 282'KB  
 Cemented w/150 sxs Class "G"  
 Cement to surface  
 Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#  
 132 jts @ 5678.16'  
 Landed @ 5691.86'KB  
 Cemented w/132 sxs Hillift &  
 239 sxs Class "G"  
 Cement Top @ 1830'KB from Daily Report  
 Hole Size @ 7 7/8"

TUBING/INJECTION STRING

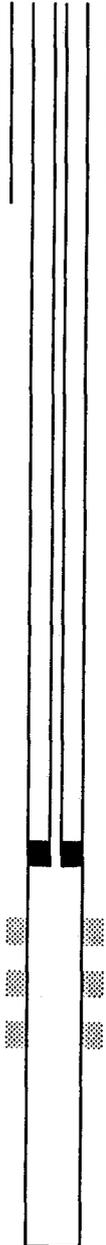
2 7/8", 6.5#, J-55  
 155 jnts @ 4824.13'  
 SN @ 2 7/8" X 1.1' (2.25" ID)  
 5.5" Arrow Set-1 Pkr @ 7.00'  
 Total String Length @ 4832.23'  
 SN Landed @ 4838.23' KB  
 Packer Landed @ 4845.23' KB

2 7/8" SN ID @ 2.25".  
 Arrow Set-1 Pkr set w/ 16" Tension.  
 Packer fluid - 55 gals Champion Cortron #23-83  
 w/ 60 STBW.

Proposed Injection Horizons

4903'- 4910' (7) 2 SPF	GREEN1
4914'- 4917' (3) 2 SPF	GREEN1
5050'- 5055' (5) 2 SPF	GREEN3
5062'- 5064' (2) 2 SPF	GREEN3
5080'- 5086' (6) 2 SPF	GREEN4
5100'- 5106' (6) 2 SPF	GREEN4

Tracer Survey ran 12-19-94.



EPA PERMIT NO.: UT2642-04211  
 UTAH CAUSE NO.: UIC-149

<- 282' KB

- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

<- Arrow Set-1 Packer @ 4845' KB

PERFORATION RECORD

4903'- 4910' (7) 2 SPF	GREEN1
4914'- 4917' (3) 2 SPF	GREEN1
5050'- 5055' (5) 2 SPF	GREEN3
5062'- 5064' (2) 2 SPF	GREEN3
5080'- 5086' (6) 2 SPF	GREEN4
5100'- 5106' (6) 2 SPF	GREEN4

- Douglas Creek Member 4100 - 5350 ft.  
 - Wasatch Fm. Transition 5350 - 6000ft.

PBTD @ 5645' KB  
 TD @ 5700' KB  
 - Wasatch Formation 6000 ft.

**BALCRON OIL**

WELL NAME: Balcron Monument Federal #31-7J  
 FIELD: Monument Butte/Jonah Unit  
 FEDERAL LEASE NO.: U-44426  
 LOCATION: NW NE Sec.7, T9S, R17E  
 831' FNL & 1782' FEL  
 COUNTY/STATE: Duchesne County, Utah  
 WORKING INTEREST: 0.805079506  
 PRODUCING FORMATION: Green River  
 COMPLETION DATE: 12-23-93  
 INITIAL PRODUCTION: 50 STBOPD, 30 MSCFGPD, 50 STBWPD  
 LAST PRODUCTION: 6.67 STBOPD, 30 MCFPD, 0 STBWPD  
 PRESENT PROD STATUS: Water Injection Well  
 Started Water injection 10-19-94.  
 CONVERSION TO INJ.: 10-4-94  
 INJECTION RATE: 275 STBWPD  
 ELEVATIONS - GROUND: 5295'  
 TOTAL DEPTH: 5700' KB

**SURFACE CASING**

STRING: 1  
 CSG SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs.  
 LENGTH: 6 jts. @ 270.08'  
 DEPTH LANDED: 282' KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 150 sxs Class "G"  
 Cement to surface

**TUBING/INJECTION STRING**

Injection Equipment & Size	Length FT.	Setting Depth FT.(w/13' KB)
KB	13.00	
1) 155 jnts 2 7/8" tbg	4824.13	4837.13
2) 2 7/8" SN (2.25" ID)	1.10	4838.23
3) 5.5" Arrow Set-1 Pkr	7.00	4845.23
End of Tubing		4845.23

Injection Packers Set 10-4-94 By Min States.

2 7/8" SN ID @ 2.25".

Arrow Set-1 Pkr set w/ 16" Tension.

Packer fluid - 55 gals Champion Cortron #23-83 w/60 STBW.

**Injection Horizons**

4903'- 4910' (7') GREEN1  
 4914'- 4917' (3') GREEN1  
 5050'- 5055' (5') GREEN3  
 5062'- 5064' (2') GREEN3  
 5080'- 5086' (6') GREEN4  
 5100'- 5106' (6') GREEN4

LOGS: Compensated Neutron-Litho-Density Log

**WELL REPORT**

DATE: 1-10-94 JZ

API NO.: 43-013-31405  
 EPA PERMIT NO.: UT2642-04211  
 UTAH CAUSE NO.: UIC-149

NET REVENUE INT.: 0.73831617 Oil  
 0.66359285 Gas

SPUD DATE: 10-29-93

OIL GRAVITY: 43 API

BHT: 129 Deg.F

LAST MIT DATE: 10-14-94

1075 to 1080 psig in 1 hr, no los

KB: 5308' (13' KB)

PLUG BACK TD: 5644.74' KB

**PRODUCTION CASING**

STRING: 1  
 CSG SIZE: 5 1/2"  
 GRADE: K-55  
 WEIGHT: 15.50 lbs.  
 LENGTH: 132 jts @ 5678.16'  
 DEPTH LANDED: 5691.86' KB  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 132 sxs Hillift &  
 239 sxs Class "G"  
 CEMENT TOP AT: 1830' KB from Daily Report

**PERFORATION RECORD**

4903'- 4910' (7') 2 SPF GREEN1  
 4914'- 4917' (3') 2 SPF GREEN1  
 5050'- 5055' (5') 2 SPF GREEN3  
 5062'- 5064' (2') 2 SPF GREEN3  
 5080'- 5086' (6') 2 SPF GREEN4  
 5100'- 5106' (6') 2 SPF GREEN4

**Brakdown/Acid Job**

\*\*\*SEE NEXT PAGE\*\*\*

**FRAC JOB**

\*\*\*SEE NEXT PAGE\*\*\*

BREAKDOWN

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4903'- 4917', 3024 gals 2% KCL water & 40 ball sealers. Initial break @ 3700 psi @ 3 BPM, back to 2200 psi @ 4.8 BPM, surge ball off, pump for rate 4.8 BPM @ 2500 psi. ISIP @ 1500 psi. Did not work. 500 gal. 15% HCl Acid.  
5050'- 5064', 40 bbls. 2% KCL water & 28 ball sealers. Initial break @ 4100 psi @ 1.5 BPM, back to 1600 psi @ 3.6 BPM, surge ball off, pump for rate, 5.9 BPM @ 2500 psi. ISIP @ 1100 psi.  
5080'- 5106', 47 bbls. 2% KCL water & 48 ball sealers. Initial break @ 3200psi @ 1.8 BPM, back to 2200 psi @ 4.0 BPM, surge ball off, pump for rate, 4.5 BPM @ 2400 psi. ISIP @ 1500 psi.

FRAC JOB

---

4903'- 4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.

5050'- 5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

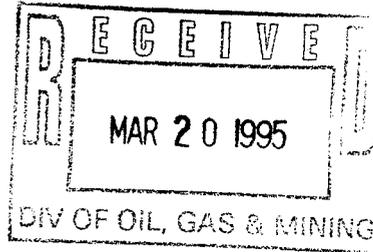


**EQUITABLE RESOURCES**  
**ENERGY COMPANY**

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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



March 16, 1995

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
Salt Lake City, UT 84180

Dear Mr. Jarvis:

Attached are copies of the injection profile reports for our enhanced recovery wells in the Jonah Unit.

If you have any questions, please call John Zellitti at (406) 259-7860.

Sincerely,

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Attachments

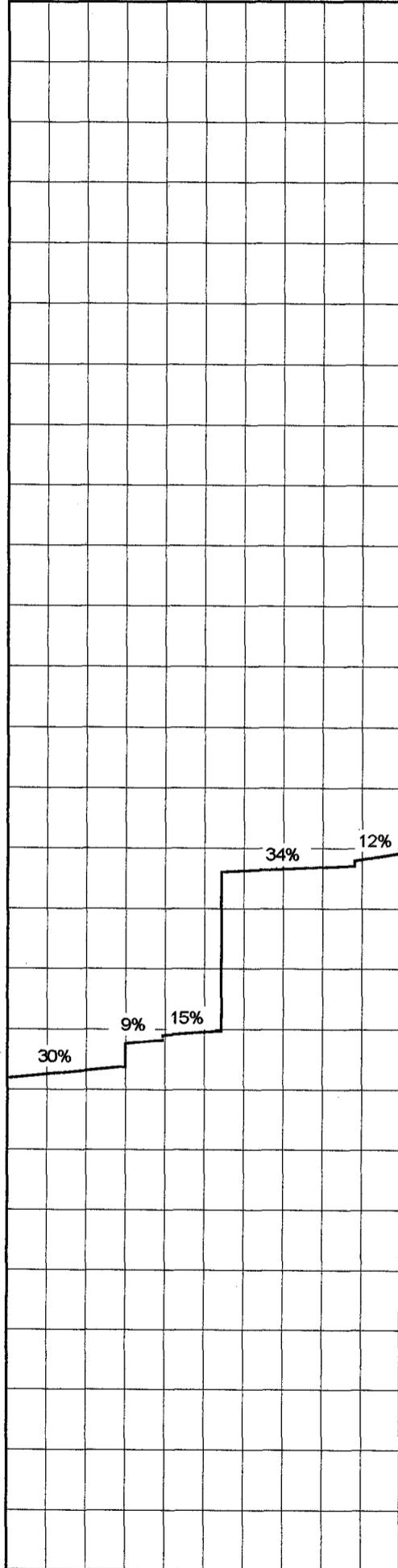
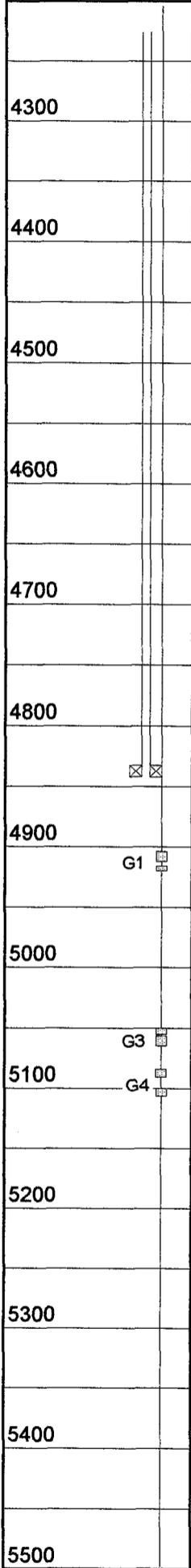
EQUITABLE RESOURCES ENERGY COMPANY-BALCRON OIL DIVISION

INJECTION PROFILE

MONUMENT  
FEDERAL 31-7J

Date: 12/19/94	Desired Rate: 275 B/D
Surface Temp: 47 F	Metered Rate: 265 B/D
BHT: 150 F	Measured Rate: 201 B/D
PBTD: 5645	Tbg Pressure: 1700 PSI
TD: 5546	Csg Pressure: 0 PSI

0 10 20 30 40 50 60 70 80 90 100



95-172-7  
43-013-31105

Remarks: R/A Tracer survey indicates exits as shown. Packer checks okay.  
Service Company: Well Information Services, Inc.  
Operator: Bart Williams

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

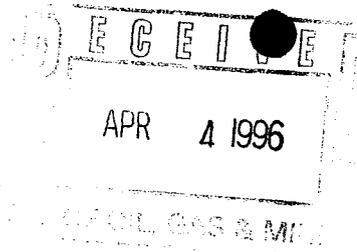
OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
CROSS CREEK	43-037-20117	NAVAJO A #1	41S	26E	5	INJD	Y
CROSS CREEK	43-037-20164	NAVAJO A #3	41S	26E	5	INJI	Y
ENSERCH EXPL	43-013-31240	FEDERAL 43-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31269	FEDERAL 34-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31229	FEDERAL 14-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31225	FEDERAL 14-3	08S	16E	34	INJW	N
ENSERCH EXPL	43-013-31272	FEDERAL 21-4	09S	16E	4	INJW	N
ENSERCH EXPL	43-013-30670	FEDERAL 32-5	09S	16E	5	INJW	N
ENSERCH EXPL	43-013-31205	FEDERAL 41-5	09S	16E	5	INJW	N
ENSERCH EXPL	43-047-32248	1-26B	09S	19E	26	INJG	N
ENSERCH EXPL	43-013-30913	44-5H	09S	17E	5	INJW	N
ENSERCH EXPL	43-013-30678	42-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-31457	22-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-30679	31-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-31049	22-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30682	24-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30887	11-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-31108	33-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30656	13-9H	09S	17E	9	INJW	N
EQUITABLE RE	43-013-31362	FEDERAL 11-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31361	FEDERAL 33-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31363	FEDERAL 24-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31364	FEDERAL 42-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-30919	FEDERAL 22-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-15779	FEDERAL 1-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-30918	FEDERAL 13-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-047-15681	PARIETTE BEN	09S	19E	7	INJD	Y
EQUITABLE RE	43-013-31404	42-1J	09S	16E	1	INJW	Y
EQUITABLE RE	43-013-31415	44-1J	09S	16E	1	INJW	Y
EQUITABLE RE	43-013-30702	FEDERAL 1-13	09S	16E	1	INJW	N
EQUITABLE RE	43-013-30735	FEDERAL 1-33	09S	16E	1	INJW	N
EQUITABLE RE	43-013-30701	1-24	09S	16E	1	INJW	N
EQUITABLE RE	43-013-31384	22-5	09S	<del>16E</del>	5	INJW 17E	Y
EQUITABLE RE	43-013-31416	34-10J	09S	16E	10	INJW	N
EQUITABLE RE	43-013-31002	43-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31369	23-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31417	12-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31386	32-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31003	FEDERAL 34-1	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31374	14-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31410	12-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31411	14-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-30742	GOVT C&O #4	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31419	32-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31408	41-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31421	21-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31367	41-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31373	23-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31368	32-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31375	24-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31370	FEDERAL 13-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31195	ALLEN FEDERA	09S	17E	6	INJW	N
EQUITABLE RE	43-013-31405	31-7J	09S	17E	7	INJW	Y
EQUITABLE	43-013-31492	11-7J	9S	17E	7	INJW	N



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

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102



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

April 1, 1996

Mr. Dan Jarvis  
Utah Division of Oil, Gas and Mining  
UIC Program  
355 West North Temple  
Salt Lake City, UT 84180

Dear Dan:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a listing of permits which we have with your Agency. This change will apply to those. If you note that I have missed some or if you have any questions, please do not hesitate to give me a call at (406) 259-7860, extension 240 to discuss this.

This change affects only our company name. The physical locations of our offices and the personnel remain the same.

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

Sincerely,

Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

UTAH UIC PERMITS

Balcron Oil Monument Butte Jonah Unit Waterflood (new name)	
Formerly Monument Butte Area-A Waterflood Approved 12/22/92	
Area Permit No. UT2642-00000	
Allen Federal #22-6	UT2642-03729 (AREA PERMIT UT2642-00000)
Allen Federal #13-6	UT2642-03730 (AREA PERMIT UT2642-00000)
Allen Federal #31-6	UT2642-03731 (AREA PERMIT UT2642-00000) (State #UIC-142)
Allen Federal #1-6	UT2642-03732 (AREA PERMIT UT2642-00000)
Allen Federal #1A-5	UT2642-03733 (AREA PERMIT UT2642-00000)
	NOTE: Never converted to UIC - put back on production
Balcron Monument Fed. #11-6	UT2642-03734 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #24-6	UT2642-03735 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #33-6	UT2642-03736 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #42-6	UT2642-03737 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #13-5J	UT2642-04208 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #22-5J	UT2642-04209 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #24-5	UT2642-04210 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #31-7J	UT2642-04211 (AREA PERMIT UT2642-00000) (State #UIC-149)
Monument Butte #1-33	State #UIC-151
Monument Butte #1-24	State #UIC-151
Monument Butte #1-13	State #UIC-151
Balcron Monument Fed. #42-1J	State #UIC-151
Getty #12-1	State #UIC-151
Balcron Monument Fed. #41-15	State #UIC-152
Balcron Monument Fed. #32-15	State #UIC-152
Balcron Monument Fed. #23-15	State #UIC-152
Balcron Monument Fed. #41-14J	State #UIC-152
Balcron Monument Fed. #21-14J	State #UIC-152
Balcron Monument Fed. #32-12J	State #UIC-152
C & O Gov't #4	State #UIC-152
Balcron Monument Fed. #14-12J	State #UIC-152
Balcron Monument Fed. #12-12J	State #UIC-152
Balcron Monument Fed. #43-11J	State #UIC-152
Balcron Monument Fed. #32-11	State #UIC-152



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

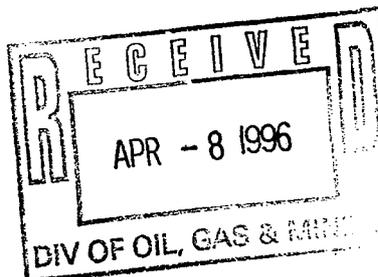
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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

March 22, 1996

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



Gentlemen:

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

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

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

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

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

UTAH

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

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial Number:  
See attached listing

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

7. Unit Agreement Name:  
See attached listing

8. Well Name and Number:  
See attached listing

9. API Well Number:  
See attached listing

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

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

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

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

4. Location of Well  
Footages: See attached listing

County: See attached list

State: UTAH

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

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

Abandon  New Construction

Repair Casing  Pull or Alter Casing

Change of Plans  Recomplete

Convert to Injection  Reperforate

Fracture Treat or Acidize  Vent or Flare

Multiple Completion  Water Shut-Off

Other \_\_\_\_\_

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

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

Abandon  New Construction

Repair Casing  Pull or Alter Casing

Change of Plans  Reperforate

Convert to Injection  Vent or Flare

Fracture Treat or Acidize  Water Shut-Off

Other Operator name change

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

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

\* Must be accompanied by a cement verification report.

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

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

8 1996

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

Bobbie Schuman

(This space for State use only)

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

Routing:

1	LEP 7-SJ
2	DES-FILE
3	VLD/GIT
4	RJE
5	JE
6	FILM

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

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

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

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

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

Name: <b>**SEE ATTACHED**</b>	API: <u>013-31405</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

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

**ENTITY REVIEW**

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

**BOND VERIFICATION (Fee wells only)**

# 5578314 (\$80,000) Scheco Ins. Co. (Bond Rider In Progress)

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

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

**FILMING**

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

**FILING**

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

**COMMENTS**

9/20/10 BLM/BIA "Formal approval not necessary"

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
EQUITABLE RE	✓43-013-31410	12-12J	09S	16E	12	INJW	N
EQUITABLE RE	✓43-013-31408	41-14J	09S	16E	14	INJW	N
EQUITABLE RE	✓43-013-31421	21-14J	09S	16E	14	INJW	N
EQUITABLE RE	✓43-013-31373	23-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31368	32-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31367	41-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31370	FEDERAL 13-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31375	24-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31384	22-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31195	ALLEN FEDERA	09S	17E	6	INJW	N
EQUITABLE RE	✓43-013-31492	11-7J	09S	17E	7	INJW	Y
EQUITABLE RE	✓43-013-31405	31-7J	09S	17E	7	INJW	Y
EQUITABLE RE	43-047-20252	E. RED WASH	08S	25E	5	INJW	N
EQUITABLE RE	43-047-20261	ERW 4-6	08S	25E	6	INJW	Y
EQUITABLE RE	43-047-32346	42-6X	08S	25E	6	INJW	N
EQUITABLE RE	43-047-20245	AMERADA GUIN	08S	25E	7	INJW	Y
EQUITABLE RE	43-013-30666	44-7	09S	17E	7	INJW	Y
EQUITABLE RE	43-013-31382	13-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-31427	33-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-30675	24-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-30643	44-8-17B	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-31580	13-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-30616	11-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-31145	22-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-30518	11-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-30499	POMCO 5	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-30516	11-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31428	31-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31581	33-17-9-17B	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31429	22-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31467	42-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-047-32610	22-2	09S	17E	2	INJW	Y
EQUITABLE RE	43-013-31425	14-2	09S	17E	2	INJW	Y
GIANT EXPLOR	43-037-15042	GOTHIC MESA	41S	23E	16	INJD	Y
GIANT EXPLOR	43-037-20292	SENTINEL PEA	41S	26E	27	INJD	Y
GIANT EXPLOR	43-037-16452	9-24	41S	23E	9	INJI	Y
HAY HOT OIL	43-037-30521	MCCRACKEN PT	40S	23E	19	INJI	N
INLAND PRODU	43-013-30843	MONUMENT BUT	08S	16E	34	INJW	Y
INLAND PRODU	43-013-31559	15-25	08S	16E	25	INJW	N
INLAND PRODU	43-013-30693	FEDERAL 3-33	08S	16E	33	INJW	N
INLAND PRODU	43-013-30808	FED 1-34	08S	16E	34	INJW	N
INLAND PRODU	43-013-30686	FEDERAL 5-35	08S	16E	35	INJW	N
INLAND PRODU	43-013-30606	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30745	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31514	1A-35	08S	16E	35	INJW	Y
INLAND PRODU	43-013-30605	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31264	MONUMENT FED	08S	16E	35	INJW	N
INLAND PRODU	43-013-30608	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30624	STATE 5-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30592	STATE 1-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30787	12-32	08S	17E	32	INJW	Y
INLAND PRODU	43-013-30779	FED 15-28	08S	16E	28	INJW	N
INLAND PRODU	43-013-31372	14A-28	08S	16E	28	INJW	N

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial Number:  
See Attached

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

7. Unit Agreement Name:  
See Attached

8. Well Name and Number:  
See Attached

9. API Well Number:  
See Attached

10. Field and Pool, or Wildcat:  
See Attached

1. Type of Well: OIL  GAS  OTHER: \_\_\_\_\_

2. Name of Operator:  
Inland Production Company

3. Address and Telephone Number:  
475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well  
Footages: See Attached Exhibit  
County: \_\_\_\_\_  
State: \_\_\_\_\_

RECEIVED  
OCT 13 1997

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

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

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

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other Change of Operator

- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Change of Operator

- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

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

Date of work completion 9-30-97

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

\* Must be accompanied by a cement verification report.

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

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

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 16 1997

13. Name & Signature: Chris Potter **CHRIS A. POTTER, ATTORNEY-IN-FACT** Date: 9/30/97

(This space for State use only)

RECEIVED  
OCT 10 1997

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

RECEIVED  
OCT 13 1997

Well name and number: See Attached **\*\*JONAH (GREEN RIVER) UNIT**  
Field or Unit name: See Attached API no. See Attached  
Well location: QQ See Attached section See Attached township See Attached range See Attached county See Attached  
Effective Date of Transfer: September 30, 1997

**CURRENT OPERATOR**  
Transfer approved by:  
Name David M. McCoskery Company Equitable Resources Energy Co.  
Signature [Signature] Address 1601 Lewis Avenue  
Title Director of Operations & Engineering Billings, MT 59102  
Date 9-30-97 Phone ( 406 ) 259-7860'  
Comments:

**NEW OPERATOR**  
Transfer approved by:  
Name Chris A Potter Company Inland Production Company  
Signature [Signature] Address 475 - 17th Street, Suite 1500  
Title CHRIS A. POTTER, ATTORNEY-IN-FACT Denver, CO 80202  
Date 9-30-97 Phone ( 303 ) 292-0900  
Comments:

(State use only)  
Transfer approved by [Signature] Title Environ. Manager  
Approval Date 1-20-98 CAUSE # 228-2

RECEIVED  
OCT 28 1997  
DIV. OF OIL & GAS

Injection wells

Injection Wells for Inland Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGREEMENT NO.
✓ AMERADA GUINAND #1	SWNW 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20245-00	UTU016271V	UTU72085A
✓ COYOTE BASIN #42-6X	SENE 6 8S 25E	UINTA	UT	COYOTE BASIN	43-047-32346-00	UTU017439B	UTU72085A
✓ EAST RED WASH FED. #4-6	SWSE 6 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20261-00	UTU020309D	UTU72085A
✓ EAST RED WASH #2-5	NWNW 5 8S 25E	UINTA	UT	COYOTE BASIN	43-047-20252-00	UTU063597A	UTU72085A
✓ ALLEN FEDERAL #1	SESE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15779-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #13-6	NWSW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30918-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #22-6	SENE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30919-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #31-6	LOT2 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31195-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #11-6	NWNW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31362-00	UTU020252A	UTU72086A
✓ MONUMENT FEDERAL #11-7J	NW NW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31492-00	UTU44426	UTU72086A
✓ MONUMENT BUTTE #13-5	NWSW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31370-00		UTU72086A
✓ MONUMENT BUTTE #22-5	SENE 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31384-00	UTU020252	UTU72086A
✓ MONUMENT BUTTE #24-5	SESW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31375-00	UTU020252	UTU72086A
✓ MONUMENT BUTTE FED. #24-6	SESW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31363-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE #31-7	NWNE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31405-00	UTU72106	UTU72086A
✓ MONUMENT BUTTE FED. #33-6	NWSE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31361-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #42-6	SENE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31364-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #12-11	SWNW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31417-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #14-11	SWSW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31374-00	UTU096547	UTU72086A
✓ MONUMENT BUTTE #12-12	SWNW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31410-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE #14-12	SWSW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31411-00		UTU72086A
✓ MONUMENT BUTTE #21-14	NENW 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31421-00		UTU72086A
✓ MONUMENT BUTTE #23-11	NESW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31369-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #23-15	NESW 159S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31373-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE #32-11	SWNE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31386-00		UTU72086A
✓ MONUMENT BUTTE #32-12	SWNE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31419-00		UTU72086A
✓ MONUMENT BUTTE #41-14	NENE 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31408-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE #43-11	NESE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31002-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #32-15	SWNE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31368-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #34-10	SWSE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31416-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #41-15	NENE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31367-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #42-1	SENE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31404-00	UTU40652	UTU72086A
✓ MONUMENT BUTTE FED. #44-1J	SESE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31415-00	UTU44426	UTU72086A
✓ C&O GOVT #4	NESW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30742-00	UTU035521A	UTU72086A
✓ MONUMENT BUTTE FED. #1-13	NWSW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30702-00	UTU18399	UTU72086A
✓ MONUMENT BUTTE FED. #1-33	NWSE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30735-00	UTU52013	UTU72086A
✓ MONUMENT BUTTE #1-24	SESW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30701-00	UTU18399	UTU72086A
✓ WALTON FEDERAL #34-11	SWSE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31003-00	UTU096550	UTU72086A
✓ MONUMENT STATE #11-2-9-17CD	NW NW 2 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-42685	ML 45555	

11422

11426

11438

11431



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**WESTERN REGION**

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

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

Dear Lisha:

RE: Equitable Sale of Utah Properties

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

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

Sincerely,

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc



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

TO: *Lisha*  
*St of Utah.*

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

Pages Attached - Including Cover Sheet *2.*

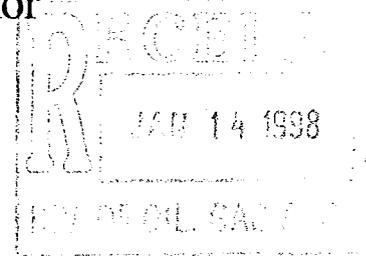
NOTE: *Here is the letter you requested.  
Call if you need anything  
further.*



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO  
UT-931

January 13, 1998

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

Re: Jonah (Green River) Unit  
Duchesne County, Utah

Gentlemen:

On January 13, 1998, we received an indenture dated November 17, 1997, whereby Equitable Resources Energy Company resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Jonah (Green River) Unit, Duchesne County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 13, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Jonah (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Jonah (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Jonah (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

U-931:TAThompson:tt:1/13/98

WELL STATUS REPORTS  
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM UTU72086A JONAH (GR) SECONDARY RECOVERY UNIT									
UTU72086A	430131511100S1	1	NWSW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578000S1	1	NWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131577900S1	1	SESE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578900S1	1	SESW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430131579200S1	1	SESE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133070200S1	1-13	NWSW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070300S1	1-14	SWSW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133064600S1	1-23	NESW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070100S1	1-24	SESW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133073500S1	1-33	NWSE	1	9S	16E	WIW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073600S1	1-34	SWSE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073400S1	1-43	NESE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133136200S1	11-6	L4	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149200S1	11-7J	NWNW	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133088900S1	12-1	NWNE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133141700S1	12-11J	SWNW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133141000S1	12-12J	SWNW	12	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133061100S1	12-5	SWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058200S1	12-6	SWNW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149300S1	12-7J	SWNW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430131579000S1	13-11J	NWSW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133137000S1	13-5	NWSW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091800S1	13-6	NWSW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133137400S1	14-11	SWSW	11	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133141100S1	14-12J	SWSW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133138500S1	14-5	SWSW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131511200S1	2	NWSE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430131579300S1	2	NWNE	14	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133060300S1	2-1	L1	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
<del>UTU72086A</del>	<del>430133140600X1</del>	<del>21-12J</del>	<del>NENW</del>	<del>12</del>	<del>9S</del>	<del>16E</del>	<del>ABD</del>	<del>UTU096550</del>	<del>EQUITABLE RESOURCES ENERG</del>
UTU72086A	430133142100S1	21-14J	NENW	14	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
<del>UTU72086A</del>	<del>430133142200X1</del>	<del>21-15J</del>	<del>NENW</del>	<del>15</del>	<del>9S</del>	<del>16E</del>	<del>ABD</del>	<del>UTU017985</del>	<del>EQUITABLE RESOURCES ENERG</del>
UTU72086A	430133061200S1	21-5	NENW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058400S1	21-6	L3	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579600S2	22-12J	SESW	12	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133063400S1	22-15	SESW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138400S1	22-5	SESW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091900S1	22-6	SESW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133136900S1	23-11	NESW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133137300S1	23-15	NESW	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138300S1	23-5	NESW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133055800S1	23-6	NESW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133140900S1	24-12J	SESW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133063100S1	24-15	SESW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133137500S1	24-5	SESW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133136300S1	24-6	SESW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579100S1	3	NWNW	14	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133061300S1	31-15	NWNE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG

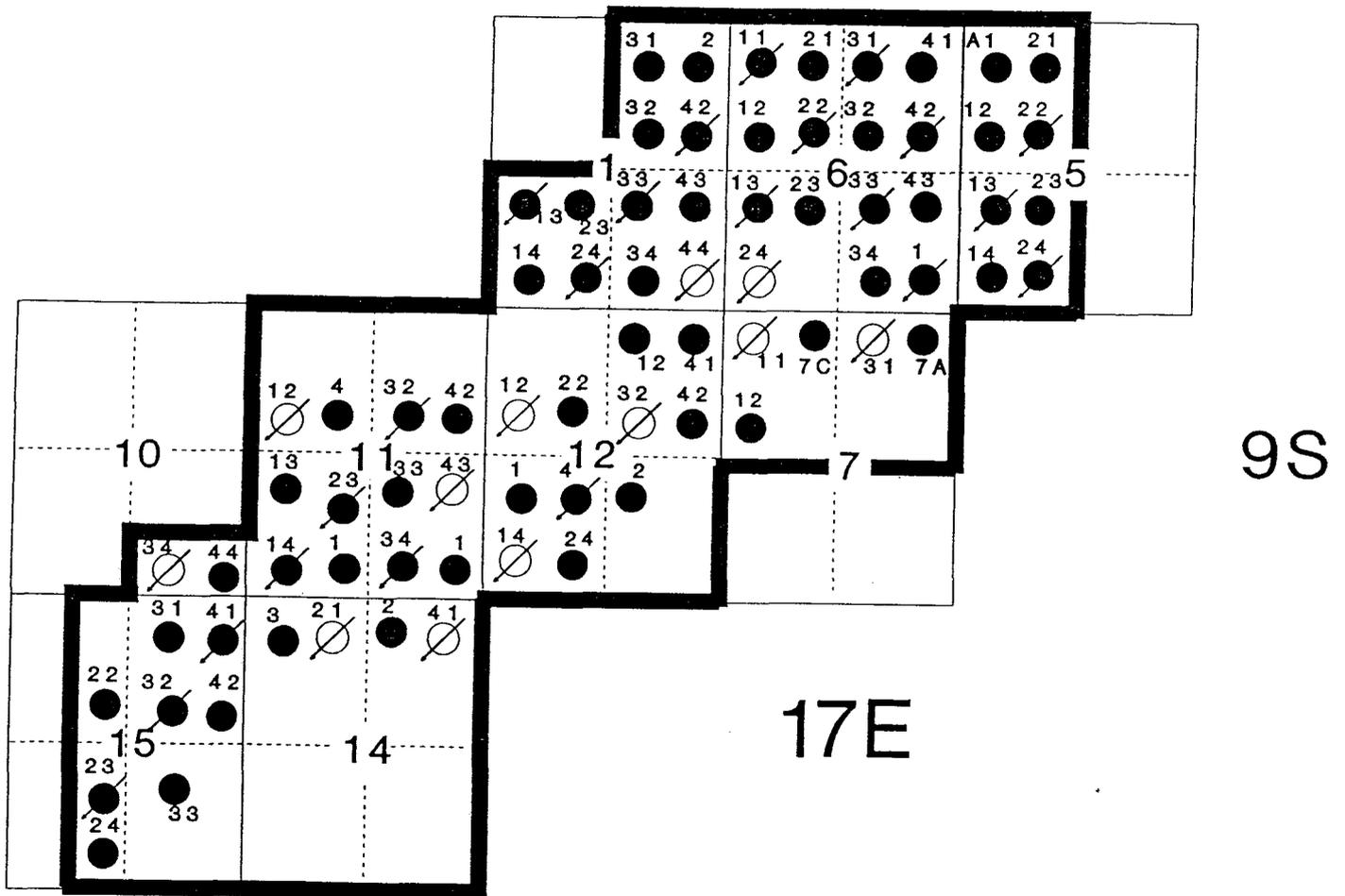
WELL STATUS REPORTS  
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
UTU72086A	430133141300S1	31-1J	L2	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133119500S1	31-6	L2	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133140500S1	31-7J	NWNE	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133138600S1	32-11	SWNE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133141900S1	32-12J	SWNE	12	9S	16E	WIW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430133136800S1	32-15	SWNE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133141400S1	32-1J	SWNE	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133055900S1	32-6	SWNE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133145100S1	33-11J	NWSE	11	9S	16E	OSI	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133063200S1	33-15	NWSE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133136100S1	33-6	NWSE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133141600S1	34-10J	SWSE	10	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133100300S1	34-11	SWSE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133058600S1	34-6	SWSE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133074200S1	4	NESW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579500S1	4	SENW	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133148700S1	41-12J	NENE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133140800S1	41-14J	NENE	14	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133136700S1	41-15	NENE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133058100S1	41-6	NENE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133006600S1	42-11J	SENE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133148600S1	42-12J	SENE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430133063300S1	42-15	SENE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133140400S1	42-1J	SENE	1	9S	16E	WIW	UTU40652	EQUITABLE RESOURCES ENERG
UTU72086A	430133136400S1	42-6	SENE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133100200S1	43-11J	NESE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133058300S1	43-6	NESE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133063000S1	44-10	SESE	10	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133141500S1	44-1J	SESE	1	9S	16E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133092600S1	7-A	NENE	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133096100S1	7-C	NENW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG

# JONAH (GREEN RIVER) UNIT

## DUCHESNE COUNTY, UTAH

EFFECTIVE: JULY 1, 1993



— UNIT OUTLINE (UTU72086A)

4,221.61 ACRES

SECONDARY ALLOCATION FEDERAL 100.00%
--

# OPERATOR CHANGE WORKSHEET

Routing:	
1-IPC ✓	6-APR ✓
2-CLH ✓	7-KAS ✓
3-DTS ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-IBB ✓	

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

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

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

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

WELL(S) attach additional page if needed:

**\*JONAH (GREEN RIVER) UNIT**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31405</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

- Sec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 12-10-97)*
- Sec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 10-13-97)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- Sec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- Sec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(1-14-98) \* UIC/Que Hro Pro 1-14-98 & UIC/DBase 1-14-98.*
- Sec 6. **Cardex** file has been updated for each well listed above.
- Sec 7. Well **file labels** have been updated for each well listed above.
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(1-14-98)*
- Sec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- yc 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.  
*Entity 11492 "Jonah (GP) Unit"*
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

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

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

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

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

**FILMING**

- yc 1. All attachments to this form have been **microfilmed**. Today's date: 2-3-98.

**FILING**

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

**COMMENTS**

980114 Bym/SZ Aprv. eff. 1-13-98.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



February 17, 2000

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

RE: Step-Rate Test  
Jonah #31-7J

Dear Dan:

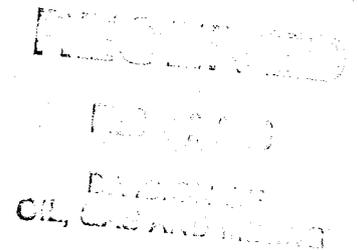
Please find enclosed Step-Rate Tests (SRT) results on the Jonah #31-7J injection well in the Jonah Unit. Inland Production Company conducted the SRT on February 16, 2000. Due to the results of the SRT Inland is requesting a change in the maximum allowable injection pressure from 2200 psi to 2125 psi for this well.

Thank you for your assistance. If you have any questions or need further information, please call me at (435) 646-3721.

Sincerely,

Brad Mecham  
Operations Manager

/bm



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

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <b>U-44426</b>	
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> INJECTION		7. UNIT AGREEMENT NAME <b>JONAH</b>	
<b>2. NAME OF OPERATOR</b> <b>INLAND PRODUCTION COMPANY</b>		8. FARM OR LEASE NAME <b>MONUMENT FEDERAL 31-7J</b>	
<b>3. ADDRESS OF OPERATOR</b> <b>ROUTE #3 BOX 3630, MYTON, UTAH 84052</b> <b>(435) 646-3721</b>		9. WELL NO. <b>31-7J</b>	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NW/NE 0831 FNL 1782 FEL</b>		10. FIELD AND POOL, OR WILDCAT <b>MONUMENT BUTTE</b>	
<b>14. API NUMBER</b> <b>43-013-31405</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NW/NE Section 7, T09S R17E</b>	
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <b>5299 GR</b>		12. COUNTY OR PARISH <b>DUCHESNE</b>	13. STATE <b>UT</b>

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>
ABANDON* <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	(OTHER) <u>Step-Rate test</u> <input checked="" type="checkbox"/>
(OTHER) _____ <input type="checkbox"/>	

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

**17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On February 16, 2000 Inland Production Company conducted a Step-Rate Test (SRT) on the 31-7J injection well in the Jonah Unit. Due to the results of the attached SRT Inland is requesting approval to change our current allowable injection pressure from 2200 psi to 2125 psi on this well.

**COPY SENT TO OPERATOR**  
Date: 3-2-00  
Initials: CHS

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

Date: 2/29/00  
By: [Signature]

18 I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Operations Manager DATE 2/16/00

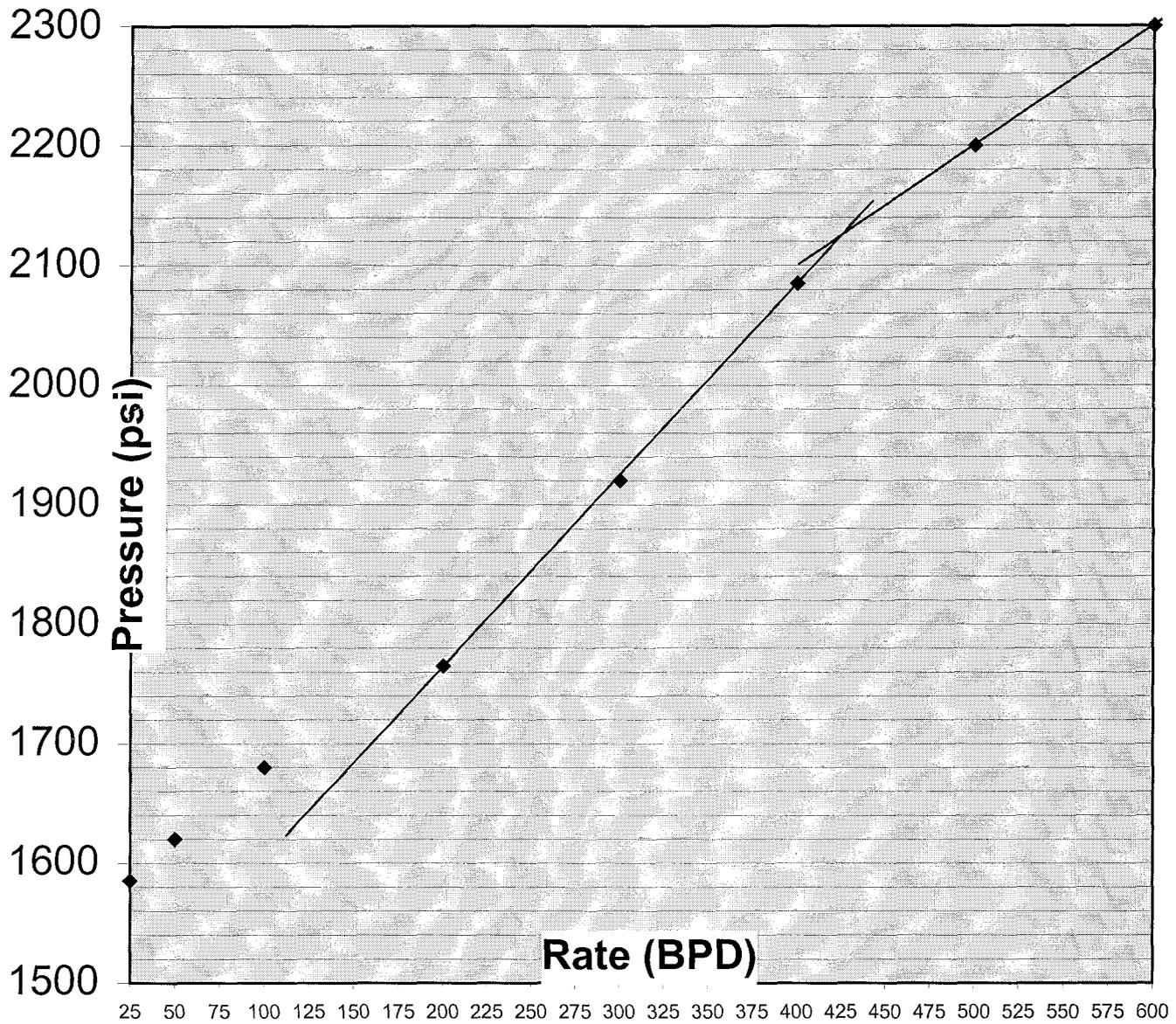
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\* See Instructions On Reverse Side

**Jonah 31-7J**  
**Step Rate Test**  
**February 16, 2000**



ISIP: 2260 psi

Fracture pressure: 2125 psi

FG: 0.868

Step	Rate(bpd)	Pressure(psi)
1	25	1585
2	50	1620
3	100	1680
4	200	1765
5	300	1920
6	400	2085
7	500	2200
8	600	2300

**Calculation of Maximum Surface Injection Pressure**

Date:	2/16/00	Operator:	Inland Production Co.
		Well:	Jonah # 31-7J
		Unit:	Jonah Unit
		Permit:	UT-2642-04211

Enter the following values if known:

Instantaneous Shut In Pressure ( ISIP)	2260	psi
Specific Gravity (SG) of injectate	1.005	g/cc
Depth to injection zone top (D)	4903	feet
Estimated Formation Parting Pressure (Pfp) from chart	2125	psi
Fracture Gradient (FG)	0.868	psi/ft
Bottom Hole Parting Pressure (Pbbp)	4259	psi

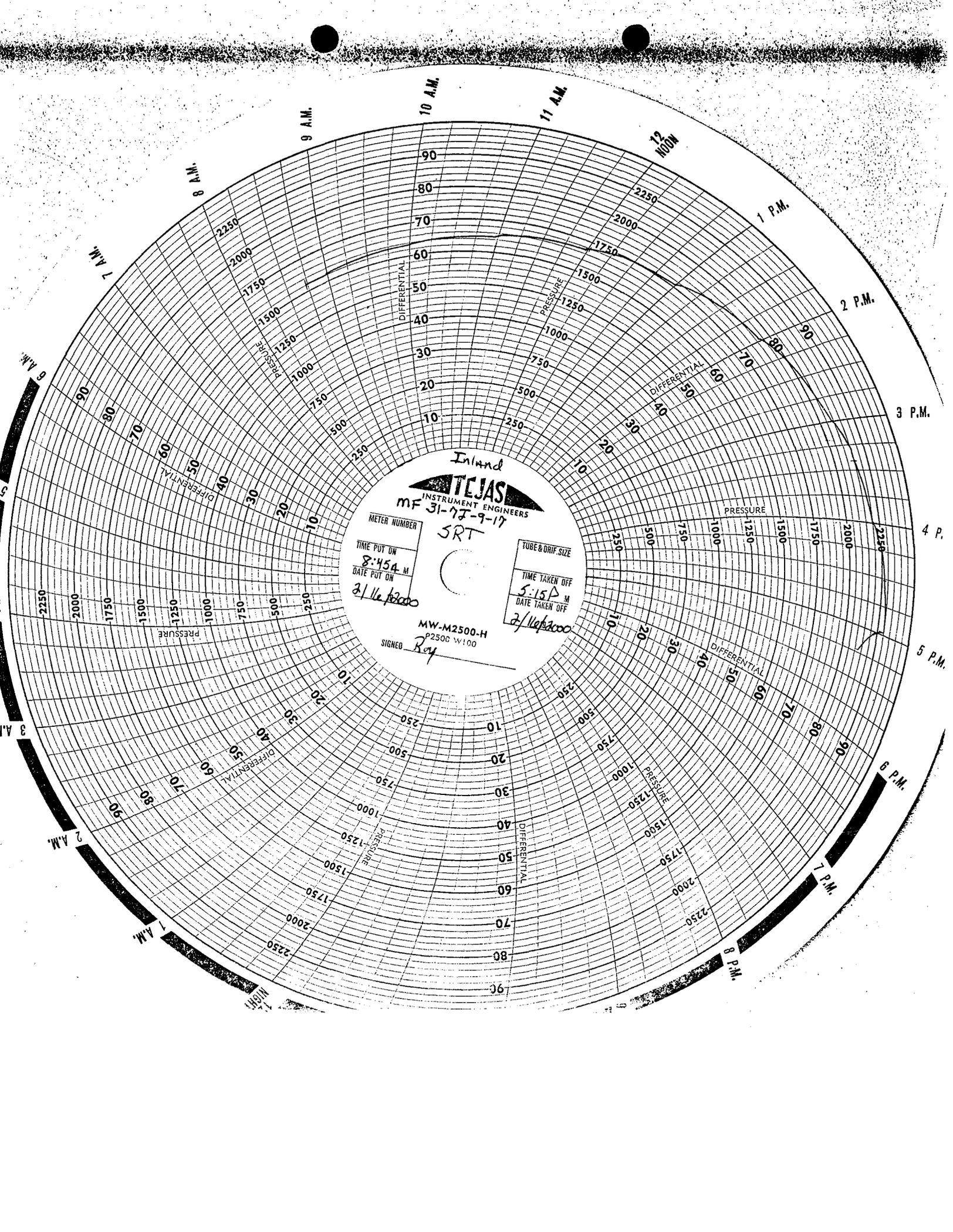
**Maximum Surface Injection Pressure =** **2125 PSIG**

Maximum Surface Injection Pressure ( P<sub>max</sub> ) = FG - ( 0.433 \* SG ) \* D  
 ( Use lessor of ISIP or Pfp )                      Value used = 2125

Fracture Gradient (FG) = (Pbhp / D )  
 ( Use lesser of FG's )                      Value used = 0.868

Calculated FG = 0.868                      Compared FG =

Bottom hole Parting Pressure ( Pbhp ) = ISIP + ( 0.433 \* SG \* D ) **4259 PSI**



Inland  
**TEJAS**  
INSTRUMENT ENGINEERS  
MF 31-77-9-17

METER NUMBER  
**SRT**

TIME PUT ON  
**8:45 A.M.**  
DATE PUT ON  
**2/16/2000**

TUBE & DRIF. SIZE  
TIME TAKEN OFF  
**5:15 P.M.**  
DATE TAKEN OFF  
**2/16/2000**

MW-M2500-H  
P2500 W100

SIGNED  
**Roy**



PRODUCTION COMPANY  
A Subsidiary of Inland Resources Inc.

April 19, 2000

Division Oil and Gas & Mining  
Attn: Mr. Brad Hill  
1594 West North Temple – Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Monument Federal 31-7J-9-17  
API # 43-013-31405, U-44426

Dear Mr. Brad Hill

Please find enclosed the results of a MIT test conducted today on the above referenced well. On 4-19-00 there was 1050 psi put on casing with 2060 psi on tubing there was no loss of pressure charted in a 1/2 hour test. The pressure was then released. This was a 5 year scheduled test.

If you have any questions or need further information, please don't hesitate to contact me. I can be reached at our Pleasant Valley Office at (435) 646-3721 or on my cellular at (435) 823-7977.

Sincerely,

Ron Shuck  
Production Foreman

Enclosures

cc: State of Utah – Division of Oil, Gas & Mining  
Jon Holst - Inland Resources  
Roosevelt & Denver Well Files

/rs

**RECEIVED**

APR 24 2000

DIVISION OF  
OIL, GAS AND MINING

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

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <p style="text-align: center;"><b>U-44426</b></p>	
<b>2. NAME OF OPERATOR</b> <p style="text-align: center;"><b>INLAND PRODUCTION COMPANY</b></p>		<b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b>  <p style="text-align: center;">N/A</p>	
<b>3. ADDRESS OF OPERATOR</b> <p style="text-align: center;"><b>Route 3 Box 3630, Myton Utah, 84052 (435) 646-3721</b></p>		<b>7. UNIT AGREEMENT NAME</b>  <p style="text-align: center;"><b>JONAH</b></p>	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  <p style="text-align: center;"><b>NW/NE                      0831 FNL 1782 FEL</b></p>		<b>8. FARM OR LEASE NAME</b> <p style="text-align: center;"><b>MONUMENT FEDERAL 31-7J</b></p>	
<b>14 API NUMBER</b> <p style="text-align: center;"><b>43-013-31405</b></p>		<b>9. WELL NO.</b>  <p style="text-align: center;"><b>31-7J-9-17</b></p>	
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.)  <p style="text-align: center;"><b>5299 GR</b></p>		<b>10. FIELD AND POOL, OR WILDCAT</b>  <p style="text-align: center;"><b>MONUMENT BUTTE</b></p>	
<b>12. COUNTY OR PARISH</b> <p style="text-align: center;"><b>DUCHESNE</b></p>		<b>11. SEC. T., R., M. OR BLK. AND SURVEY OR AREA</b> <p style="text-align: center;"><b>NW/NE Section 7, T09S R17E</b></p>	
<b>13. STATE</b> <p style="text-align: center;"><b>UT</b></p>			

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>
(OTHER) <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
	FRACTURE TREATMENT <input type="checkbox"/>
	ALTERING CASING <input type="checkbox"/>
	SHOOTING OR ACIDIZING <input type="checkbox"/>
	ABANDONMENT* <input type="checkbox"/>
	(OTHER) <u>MIT on Casing</u> <input checked="" type="checkbox"/>

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

**17 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)\*

The above referenced well had a MIT test done on the casing on 4-19-00. This was a 5 year annual test. The casing was pressured to 1050 psi with 2060 psi on tubing. No loss off pressure wash charted in 30 minutes. The pressure was then released.

**18 I hereby certify that the foregoing is true and correct**

SIGNED <u>Ron Shuck</u>	TITLE <u>Production Foreman</u>	DATE <u>4/19/00</u>
(This space for Federal or State office use)		

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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

**COPY SENT TO OPERATOR**  
Date: 5-12-00  
Initials: CRD

\* See Instructions On Reverse Side

Date: 5/1/00  
By: [Signature]

**RECEIVED**

APR 24 2000

**DIVISION OF  
OIL, GAS AND MINING**



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: None Date: 4/19/00  
 Test conducted by: Ross Shurt  
 Others present: Matt Fillingim

Well Name: <u>Monument Federal 131-7J</u>	Type: <u>(ER)</u> SWD	Status: <u>(AC)</u> TA UC
Field: <u>Tadok Unit</u>	UT 2642-04211	
Location: <u>NW/NE</u> Sec: <u>7 T 9 N 13 R 12 E</u> W County: <u>DeWberry</u> State: <u>UT</u>		
Operator: <u>Inland Production</u>		
Last MIT: <u>1 1</u>	Maximum Allowable Pressure: <u>2085</u>	PSIG

Is this a regularly scheduled test?  Yes [ ] No  
 Initial test for permit? [ ] Yes  No  
 Test after well rework? [ ] Yes  No  
 Well injecting during test?  Yes [ ] No

## RECEIVED

APR 24 2000

DIVISION OF  
OIL, GAS AND MINING  
If Yes, rate: 37 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure		<u>2060</u> psig	psig	psig
End of test pressure		<u>2060</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>				
<u>2:55</u>	0 minutes	<u>1050</u> psig	psig	psig
	5 minutes	<u>1050</u> psig	psig	psig
	10 minutes	<u>1050</u> psig	psig	psig
	15 minutes	<u>1049</u> psig	psig	psig
	20 minutes	<u>1048</u> psig	psig	psig
	25 minutes	<u>1047</u> psig	psig	psig
<u>3:25</u>	30 minutes	<u>1045</u> psig	psig	psig
	minutes	psig	psig	psig
	minutes	psig	psig	psig
<b>RESULT</b>		<input checked="" type="checkbox"/> Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test? [ ] Yes [ ] No

# MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as Volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

*5 year MIT on casing*

*4600' To Fill Annulus @ 1.16 BBLs Per Inch  
3' 11"*

*3' 11 1/4" Bleed Back into Truck Tank*

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APR 24 2000

DIVISION OF  
OIL, GAS AND MINING

Signature of Witness: \_\_\_\_\_

*Ron D... [Signature]*

## OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff \_\_\_\_\_

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

Do you agree with the reported test results?  YES  NO

If not, why? \_\_\_\_\_

Possible violation identified?  YES  NO

If YES, what \_\_\_\_\_

If YES - followup initiated?  YES

NO - why not? \_\_\_\_\_

Data Entry

Compliance Staff

2<sup>nd</sup> Data Entry

Hardcopy Filing



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

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

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: Inland Production Company  
 Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
 Phone: (303) 893-0102  
 Comments:

Name: Brian Harris  
 Signature: *Brian Harris*  
 Title: Engineering Tech.  
 Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company  
 Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
 Phone: \_\_\_\_\_  
 Comments:

Name: Brian Harris  
 Signature: *Brian Harris*  
 Title: Engineering Tech.  
 Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Stewart*  
 Title: *Field Services Manager*

Approval Date: 9-20-04

Comments: Note: Indian Country wells will require EPA approval.

RECEIVED  
SEP 20 2004  
DIV. OF OIL, GAS & MINING

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004**

<b>FROM:</b> (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO:</b> ( New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
---	--

**CA No.**

**Unit:**

**JONAH (GREEN RIVER)**

<b>WELL(S)</b>									
NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
MONUMENT FED 31-1J	01	090S	160E	4301331413	11492	Federal	OW	P	
MONUMENT FED 32-1J	01	090S	160E	4301331414	11492	Federal	OW	P	
MON FED 44-1J	01	090S	160E	4301331415	11492	Federal	WI	A	
MON FED 34-10J	10	090S	160E	4301331416	11492	Federal	WI	A	
MON FED 12-11J	11	090S	160E	4301331417	11492	Federal	WI	A	
MONUMENT FED 33-11J	11	090S	160E	4301331451	11492	Federal	OW	P	
MONUMENT FED 24-12J	12	090S	160E	4301331409	11492	Federal	OW	P	
MON FED 12-12J	12	090S	160E	4301331410	11492	Federal	WI	A	
MON FED 14-12J	12	090S	160E	4301331411	11492	Federal	WI	A	
MON FED 32-12J	12	090S	160E	4301331419	11492	Federal	WI	A	
MON FED 42-12J	12	090S	160E	4301331486	11492	Federal	WI	A	
MONUMENT FED 41-12J	12	090S	160E	4301331487	11492	Federal	OW	P	
MON FED 41-14J	14	090S	160E	4301331408	11492	Federal	WI	A	
MON FED 21-14J	14	090S	160E	4301331421	11492	Federal	WI	A	
MONUMENT FED 21-15J	15	090S	160E	4301331422	11492	Federal	NA	PA	
MON FED 31-7J	07	090S	170E	4301331405	11492	Federal	WI	A	
MON FED 11-7J	07	090S	170E	4301331492	11492	Federal	WI	A	
MONUMENT FED 12-7J	07	090S	170E	4301331493	11492	Federal	OW	P	
JONAH 6-7	07	090S	170E	4301331987	11492	Federal	WI	A	
JONAH 7-7	07	090S	170E	4301331988	11492	Federal	OW	P	

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

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

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

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

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

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

**DATA ENTRY:**

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

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

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

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

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

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

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

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU44426

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:  
JONAH UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Injection well

8. WELL NAME and NUMBER:  
MON FED 31-7J

2. NAME OF OPERATOR:  
Newfield Production Company

9. API NUMBER:  
4301331405

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
Monument Butte

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0831 FNL 1782 FEL

COUNTY: Duchesne

QTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NW/NE, 7, T9S, R17E

STATE: Utah

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

TYPE OF ACTION SubDate

TYPE OF SUBMISSION	TYPE OF ACTION	TYPE OF ACTION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 04/07/2005	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 5 Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

A 5 Year MIT was conducted on the subject well. On 3/24/05 Mr. Nathan Wiser was notified of the intent to conduct a MIT on the casing. On 3/30/05 the casing was pressured to 1075 psi w/ 5 psi pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

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

NAME (PLEASE PRINT) Krishna Russell

TITLE Production Clerk

SIGNATURE

*Krishna Russell*

DATE 04/07/2005

(This space for State use only)

**RECEIVED**

**APR 11 2005**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
 Underground Injection Control Program, UIC Direct Implementation Program SP-W-GW  
 999 18th Street, Suite 500 Denver, CO 80202-2468

EPA Witness: \_\_\_\_\_ Date: 03 / 30 / 2005  
 Test conducted by: J.D. Hancock  
 Others present: \_\_\_\_\_

Well Name: <u>Manuel Field 31-20-9-17</u> Type: ER SWD Status: AC TA UC	
Field: <u>Johan unit</u>	
Location: <u>NW/NE</u> Sec: <u>7</u> T: <u>9</u> N/S R: <u>17</u> E/W County: <u>Ouchecos</u> State: <u>UT</u>	
Operator: <u>Newfield</u>	
Last MIT: <u>1</u> / <u>1</u> Maximum Allowable Pressure: <u>2120</u> PSIG	

Is this a regularly scheduled test?       Yes     No  
 Initial test for permit?                     Yes     No  
 Test after well rework?                     Yes     No  
 Well injecting during test?                 Yes     No      If yes, rate: 16 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial pressure	<u>2100</u> psig	psig	psig
End of test pressure	<u>2100</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1075</u> psig	psig	psig
5 minutes	<u>1075</u> psig	psig	psig
10 minutes	<u>1075</u> psig	psig	psig
15 minutes	<u>1075</u> psig	psig	psig
20 minutes	<u>1075</u> psig	psig	psig
25 minutes	<u>1075</u> psig	psig	psig
30 minutes	<u>1075</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

RECEIVED

APR 11 2005

DIV. OF OIL, GAS & MINING



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

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-44426
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: JONAH UNIT
8. WELL NAME and NUMBER: MON 31-7J-9-17
9. API NUMBER: 4301331405
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		8. WELL NAME and NUMBER: MON 31-7J-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 4301331405
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052	PHONE NUMBER 435.646.3721	10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 831 FNL 1782 FEL		COUNTY: DUCHESNE
OTR/OTR. TOWNSHIP. RANGE. MERIDIAN: NWNE, 7, T9S, R17E		STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  09/29/2006	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER -
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well was recompleted in the Green River Formation on 9/29/06. One new interval was added the CP1 sds 5462'-5470' with 4 JSPF, 32 shots. The packer is now set at 4841'.

On 10/4/06 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. Permission was given at that time to perform the test on 10/10/06. On 10/10/06 the csg was pressured up to 1200 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1000 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20642-31405 API# 43-013-31405

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

NAME (PLEASE PRINT) <u>Callie Duncan</u>	TITLE <u>Production Clerk</u>
SIGNATURE <u>Callie Duncan</u>	DATE <u>10/24/2006</u>

(This space for State use only)

RECEIVED  
OCT 25 2006  
DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 10/10/06  
 Test conducted by: Trefly J. Raza  
 Others present: \_\_\_\_\_

Well Name: <u>Monument Federal 31-75-9-17</u> Type: ER SWD Status: AC TA UC
Field: <u>Monument Basin</u>
Location: <u>NW/NE</u> Sec: <u>7</u> T <u>9</u> N <u>18</u> R <u>17</u> E <u>W</u> County: <u>Duchesne</u> State: <u>UT</u>
Operator: <u>New Field</u>
Last MIT: <u>1</u> / <u>1</u> Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No    If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 6 psig

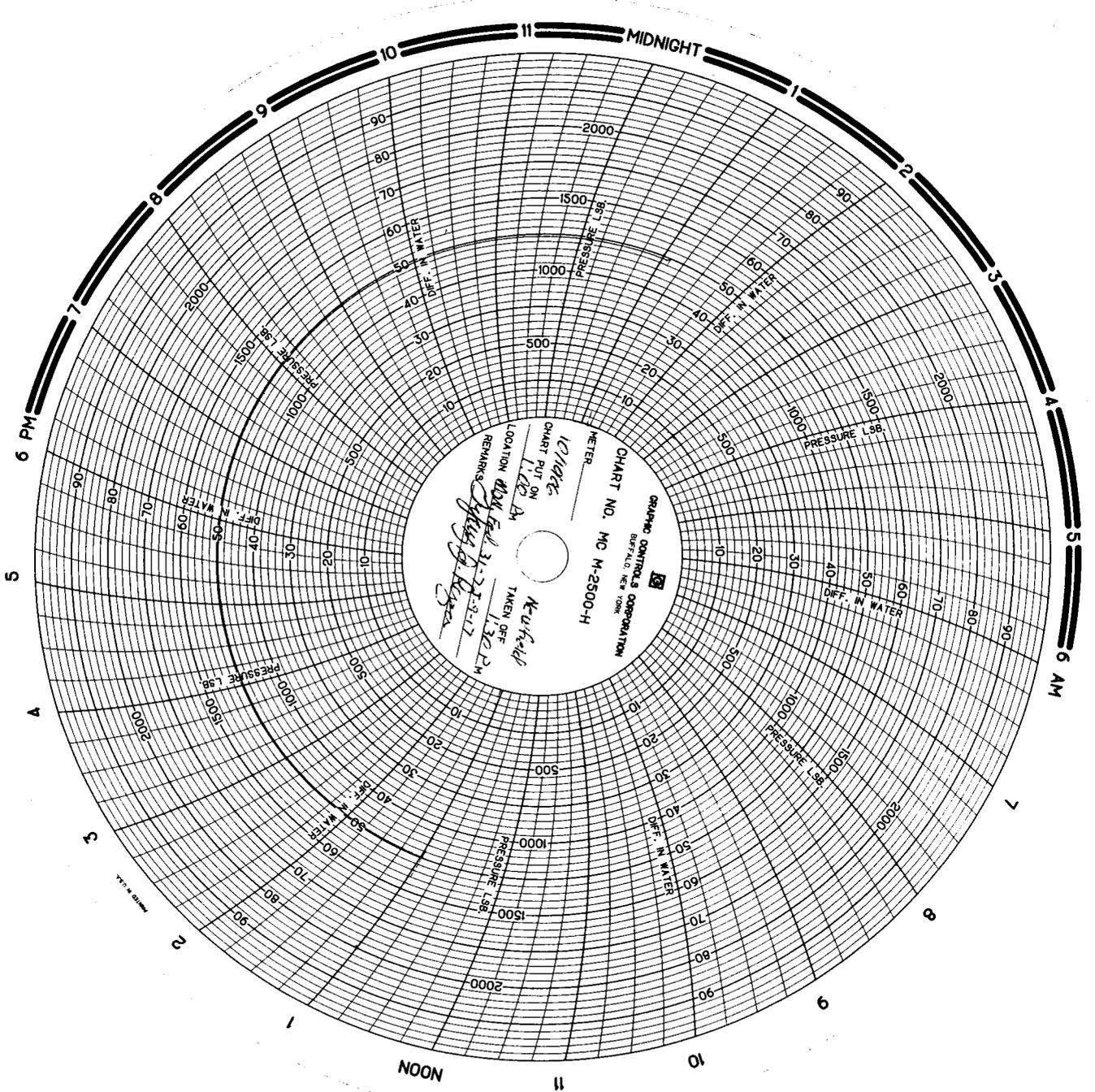
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1000</u> psig	psig	psig
End of test pressure	<u>1000</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1200</u> psig	psig	psig
5 minutes	<u>1200</u> psig	psig	psig
10 minutes	<u>1200</u> psig	psig	psig
15 minutes	<u>1200</u> psig	psig	psig
20 minutes	<u>1200</u> psig	psig	psig
25 minutes	<u>1200</u> psig	psig	psig
30 minutes	<u>1200</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



GROUP CONTROL & COOPERATION  
 BUFFALO, NEW YORK

CHART NO. MC M-2500-H  
 METER \_\_\_\_\_  
 LOCATION *107th St*  
 CHART PUT ON *1:20 PM*  
 TAKEN OFF *1:30 PM*  
 REMARKS *See*

*Neufville*

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-44426

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
MON FED 31-7J

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331405

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 831 FNL 1782 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNE, 7, T9S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 03/03/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Five Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 02-08-10 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 02-08-10. On 03-03-10 the casing was pressured up to 1050 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tubing pressure was 1968 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT 20642-04211 API# 43-013-31405

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 03/04/2010

(This space for State use only)

**RECEIVED**

**MAR 08 2010**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 3 / 3 / 2010  
 Test conducted by: Dave Richens  
 Others present: \_\_\_\_\_

Well Name: <u>Monument Federal 31-7J-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>NW/NE</u> Sec: <u>7</u> T <u>9</u> N/S <u>R 17</u> E/W County: <u>Duchesne</u> State: <u>Ut</u>		
Operator: <u>Newfield</u>		
Last MIT: _____ / _____ / _____	Maximum Allowable Pressure: <u>2120</u>	PSIG

Is this a regularly scheduled test?  Yes  No  
 Initial test for permit?  Yes  No  
 Test after well rework?  Yes  No  
 Well injecting during test?  Yes  No If Yes, rate: 57 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1968</u> psig	psig	psig
End of test pressure	<u>1968</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1050</u> psig	psig	psig
5 minutes	<u>1050</u> psig	psig	psig
10 minutes	<u>1050</u> psig	psig	psig
15 minutes	<u>1050</u> psig	psig	psig
20 minutes	<u>1050</u> psig	psig	psig
25 minutes	<u>1050</u> psig	psig	psig
30 minutes	<u>1050</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?  Yes  No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

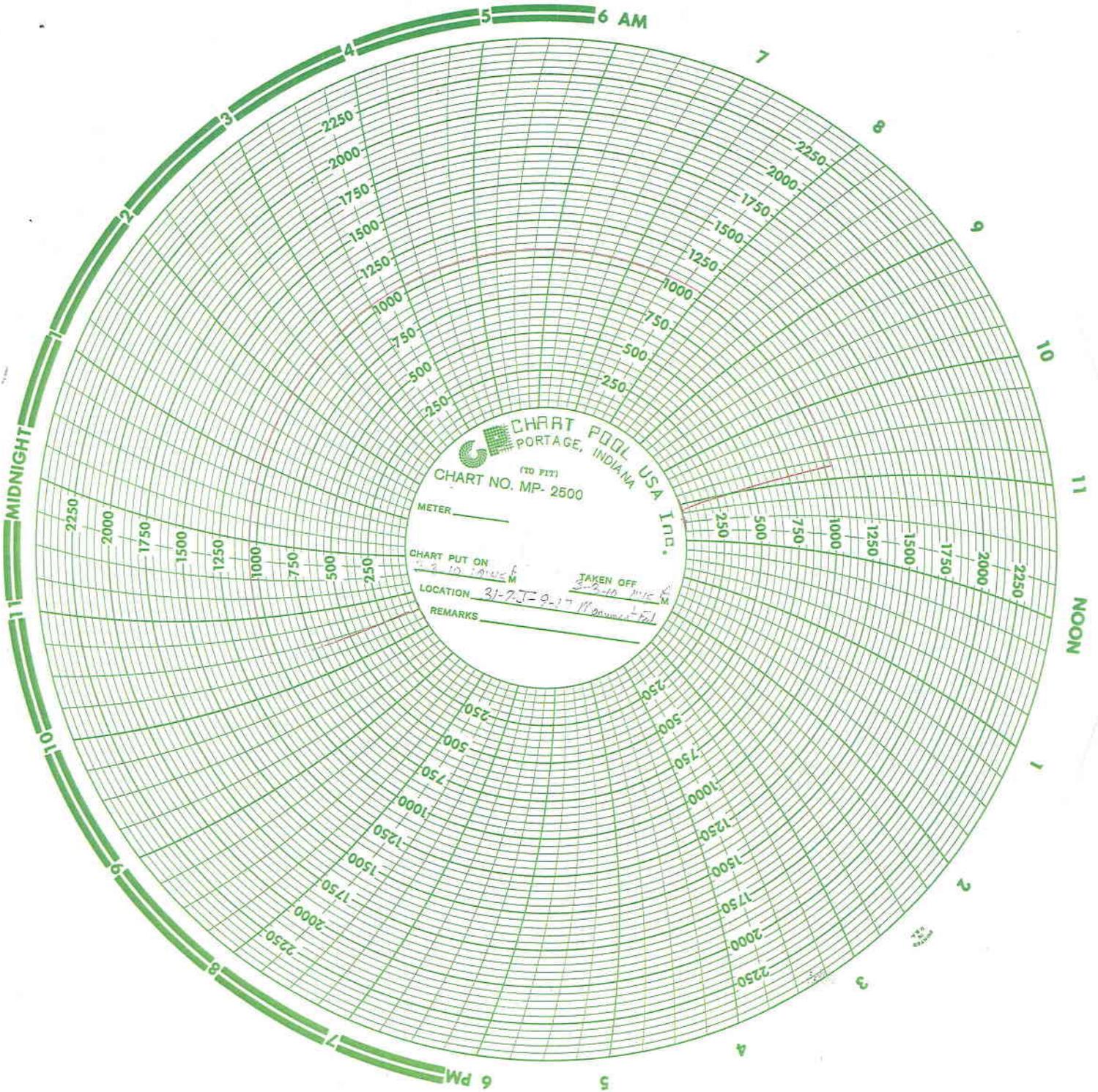


CHART POOL USA INC.  
PORTAGE, INDIANA  
(70 FIT)  
CHART NO. MP-2500

METER \_\_\_\_\_

CHART PUT ON  
*2-2-10 10:45 AM*

TAKEN OFF  
*2-2-10 11:15 AM*

LOCATION *31-2J-9-17 11' diameter 15'*

REMARKS \_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-44426
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> MON FED 31-7J
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013314050000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0831 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 07 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/6/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input checked="" type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above subject well had workover procedures performed (tubing leak), attached is a daily status report. On 03/01/2012 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. On 03/06/2012 the csg was pressured up to 1060 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbq pressure was 650 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
March 12, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/7/2012	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 3 / 6 / 2012  
 Test conducted by: Eric L. Park  
 Others present: \_\_\_\_\_

Well Name: <u>Monument Federal 31-7J-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument BHP</u>		
Location: <u>NW/NE</u> Sec: <u>7</u> T <u>9</u> N/S R <u>17</u> E/W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Eric L. Park</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

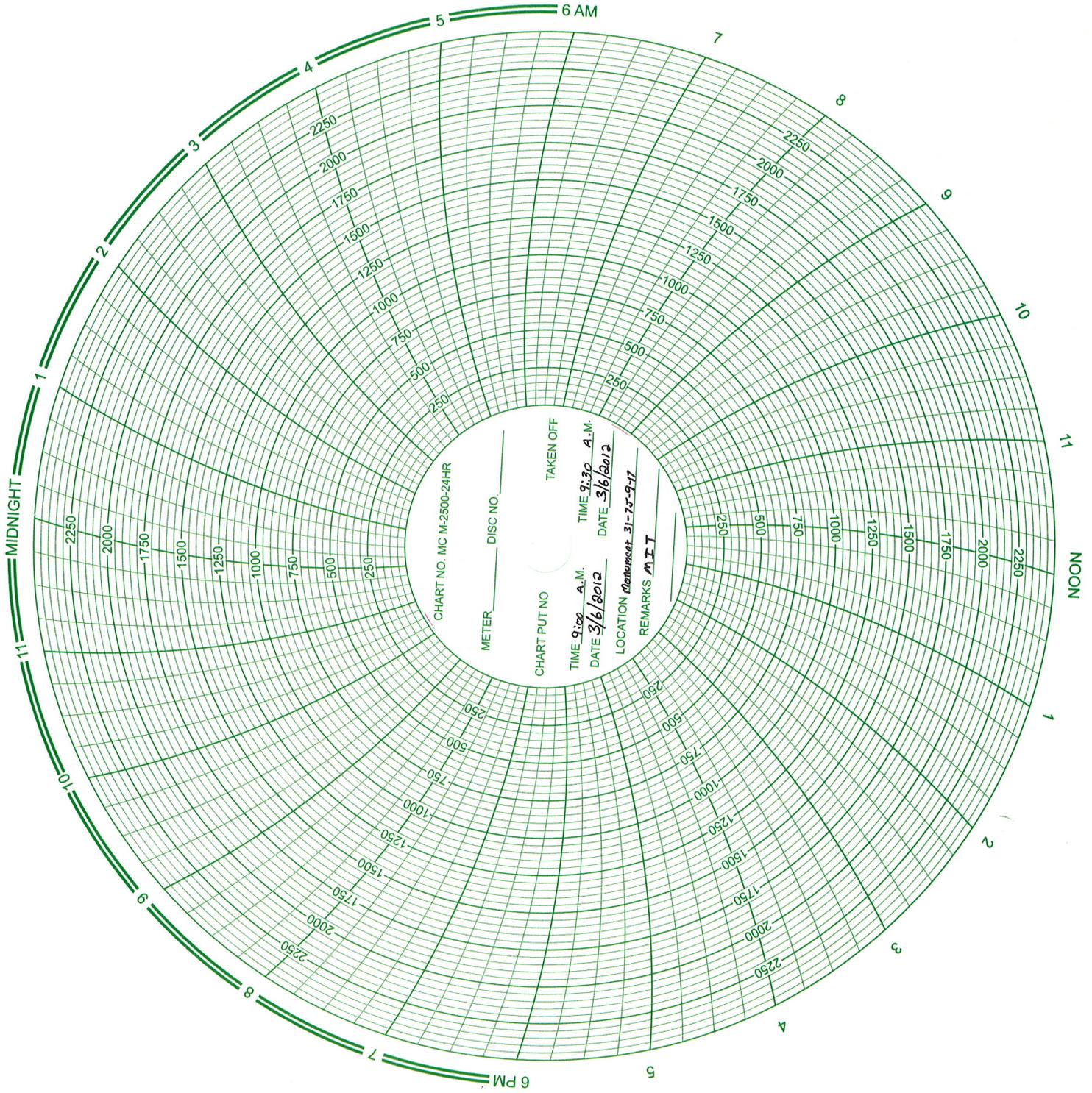
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	650      psig	psig	psig
End of test pressure	650      psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	1060      psig	psig	psig
5 minutes	1060      psig	psig	psig
10 minutes	1060      psig	psig	psig
15 minutes	1060      psig	psig	psig
20 minutes	1060      psig	psig	psig
25 minutes	1060      psig	psig	psig
30 minutes	1060      psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

Format For Sundry

**MON 31-7J-9-17**

**12/1/2011 To 4/29/2012**

**2/28/2012 Day: 1**

**Tubing Leak**

Stone #8 on 2/28/2012 - MIRU, flow well - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - MIRU, flowback 400bbls first 3 hrs, sent hands home @ 5:30, flowed til 7:30, turn over to flowback hands. - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - flowback hands flowed Sunday night, 300 bbl, tbg frozen, hot oiler broke

dwn, PU on tbg, try to release pkr, still stuck. Wait for hot oiler to thaw out well. RU Perforators wireline, RIH to cut tbg @ 4779', 1/2" way in bottom jt tbg, RD wireline, POOH w/tbg, talluing on way out. LD cut off jt, PU & RIH w/2 7/8" grapple, 2-3 1/2" collars, bumper sub, jars, intensifire tbg sub, RIH w/tbg tie back fish & jar on pkr for 1.5 hrs, came loose, POOH w/10 jts, tie back, POOH w/120 jts, SWIFN, EOT 745' - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. - ND WH, NU BOPs, RU floor, release TAC, LD 1 jt, drop SV & pump dwn csg, quit flowing & tbg pressured up, pkr reset, try to release and wouldn't, RU sandline, RIH & fish SV til we get pkr released. Work on pkr, RU swvl jar, pressure up on csg, jar will not come, RD swvl, SWIFN, have flowback hands ready to flow well Sunday night, plan to cut tbg Monday morning and fish pkr out of hole. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$2,103

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**3/1/2012 Day: 5**

**Tubing Leak**

Stone #8 on 3/1/2012 - found HIT, replace tbg, psi test - RU hot oiler, test tbg-no good, RU sandline, fish SV, flush tbg w/25bw, drop new SV, pump to botom, test to 3000#-no good. POOH w/10 jts, found pin hole around 1830', replace tbg, retest to 3000#-good test, RIH w/29 jts, test to 3000#-good. RIH w/20 jts, PU 3 new, test to 3000#, test for 30 min-good. RU sandline, fish SV, POOH w/sandline, pump 70bbl pkr fluid dwn csg, up tbg, RD floor, ND BOPs, set pck w/18000# tension, land tbg, psi up on csg to 1515#, losing 25# every 30 min, SWIFN @ 1400#. Retest in am - RU hot oiler, test tbg-no good, RU sandline, fish SV, flush tbg w/25bw, drop new SV, pump to botom, test to 3000#-no good. POOH w/10 jts, found pin hole around 1830', replace tbg, retest to 3000#-good test, RIH w/29 jts, test to 3000#-good. RIH w/20 jts, PU 3 new, test to 3000#, test for 30 min-good. RU sandline, fish SV, POOH w/sandline, pump 70bbl pkr fluid dwn csg, up tbg, RD floor, ND BOPs, set pck w/18000# tension, land tbg, psi up on csg to 1515#, losing 25# every 30 min, SWIFN @ 1400#. Retest in am - RU hot oiler, test tbg-no good, RU sandline, fish SV, flush tbg w/25bw, drop new SV, pump to botom, test to 3000#-no good. POOH w/10 jts, found pin hole around 1830', replace tbg, retest to 3000#-good test, RIH w/29 jts, test to 3000#-good. RIH w/20 jts, PU 3 new, test to 3000#, test for 30 min-good. RU sandline, fish SV, POOH w/sandline, pump 70bbl pkr fluid dwn csg, up tbg, RD floor, ND BOPs, set pck w/18000# tension, land tbg, psi up on csg to 1515#, losing 25# every 30 min, SWIFN @ 1400#. Retest in am - RU hot oiler, test tbg-no good, RU sandline, fish SV, flush tbg w/25bw, drop new SV, pump to botom, test to 3000#-no good. POOH w/10 jts, found pin hole around 1830', replace tbg, retest to 3000#-good test, RIH w/29 jts, test to 3000#-good. RIH w/20 jts, PU 3 new, test to 3000#, test for 30 min-good. RU sandline, fish SV, POOH w/sandline, pump 70bbl pkr fluid dwn csg, up tbg, RD floor, ND BOPs, set pck w/18000# tension, land tbg, psi up on csg to 1515#, losing 25# every 30 min, SWIFN @ 1400#. Retest in am - relieve flowback hand @ 0630. didn't open well overnight, bleed dwn well, flush tbg w/15bw, POOH w/tbg, LD tools, PU new pkr, new PSN, RIH w/41 jts, drop SV, build test tee, fill & test to 4000#, watch for 5 min, RIH w/30 jts, pressure to 3500#, watch for 5 min-good, RIH w/40 jts, pressure to 3000#, bleed off to 2000# slowly, POOH w/10 jts, breaking collars, test to 3000#, held for 5 min, cannot get to test good again, POOH w/30 jts, wont test good, EOT 3609', SWIFN - relieve flowback hand @ 0630. didn't open well overnight, bleed dwn well, flush tbg w/15bw, POOH w/tbg, LD tools, PU new pkr, new PSN, RIH w/41 jts, drop SV, build test tee, fill & test to 4000#, watch for 5 min, RIH w/30 jts, pressure to 3500#, watch for 5 min-good, RIH w/40 jts, pressure to

3000#, bleed off to 2000# slowly, POOH w/10 jts, breaking collars, test to 3000#, held for 5 min, cannot get to test good again, POOH w/30 jts, wont test good, EOT 3609', SWIFN - relieve flowback hand @ 0630. didn't open well overnight, bleed dwn well, flush tbg w/15bw, POOH w/tbg, LD tools, PU new pkr, new PSN, RIH w/41 jts, drop SV, build test tee, fill & test to 4000#, watch for 5 min, RIH w/30 jts, pressure to 3500#, watch for 5 min-good, RIH w/40 jts, pressure to 3000#, bleed off to 2000# slowly, POOH w/10 jts, breaking collars, test to 3000#, held for 5 min, cannot get to test good again, POOH w/30 jts, wont test good, EOT 3609', SWIFN - relieve flowback hand @ 0630. didn't open well overnight, bleed dwn well, flush tbg w/15bw, POOH w/tbg, LD tools, PU new pkr, new PSN, RIH w/41 jts, drop SV, build test tee, fill & test to 4000#, watch for 5 min, RIH w/30 jts, pressure to 3500#, watch for 5 min-good, RIH w/40 jts, pressure to 3000#, bleed off to 2000# slowly, POOH w/10 jts, breaking collars, test to 3000#, held for 5 min, cannot get to test good again, POOH w/30 jts, wont test good, EOT 3609', SWIFN

**Daily Cost:** \$0

**Cumulative Cost:** \$32,679

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**3/2/2012 Day: 6**

**Tubing Leak**

Stone #8 on 3/2/2012 - Test for 30 min-good - open well @ 0630 w/1200#, watch for 30 min, still holding 1200#. RDMO - open well @ 0630 w/1200#, watch for 30 min, still holding 1200#. RDMO **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$34,106

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**3/6/2012 Day: 7**

**Tubing Leak**

Rigless on 3/6/2012 - Conduct MIT - On 03/01/2012 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. On 03/06/2012 the csg was pressured up to 1060 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 650 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211 - On 03/01/2012 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. On 03/06/2012 the csg was pressured up to 1060 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 650 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$35,006

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**Pertinent Files: [Go to File List](#)**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
http://www.epa.gov/region08

RECEIVED

MAR 19 2012

MAR 15 2012

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-1608  
RETURN RECEIPT REQUESTED

Mr. J D Horrocks  
Newfield Exploration Company  
Route 3, Box 3630  
Myton, UT 84052

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

Re: 9S 17E 7  
Underground Injection Control (UIC)  
Permission to Resume Injection  
Monument Federal 31-7J-9-17 Well  
EPA ID# UT20642-04211  
Duchesne County, UT  
43-013-31405

Dear Mr. Horrocks:

On March 14, 2012, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover to address a tubing leak and the followup mechanical integrity test (MIT) conducted on March 6, 2012. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before December 6, 2017.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director  
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Phillip Chimburas, Councilman  
Uintah & Ouray Business Committee  
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Stewart Pike, Councilman  
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Richard Jenks, Councilman  
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Frances Poowegup, Councilwoman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Mike Natchees, Environmental  
Coordinator  
Ute Indian Tribe  
P.O. Box 460  
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,  
Minerals and Air Programs  
P.O. Box 70  
Ute Indian Tribe  
Fort Duchesne, Utah 84026

John Rogers  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
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RECEIVED

MAR 19 2012

MAR 15 2012

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-1608  
RETURN RECEIPT REQUESTED

Mr. J D Horrocks  
Newfield Exploration Company  
Route 3, Box 3630  
Myton, UT 84052

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

Re: 9S 17E 7  
Underground Injection Control (UIC)  
Permission to Resume Injection  
Monument Federal 31-7J-9-17 Well  
EPA ID# UT20642-04211  
Duchesne County, UT  
43-013-31405

Dear Mr. Horrocks:

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If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director  
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman  
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Mike Natchees, Environmental  
Coordinator  
Ute Indian Tribe  
P.O. Box 460  
Fort Duchesne, Utah 84026

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Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,  
Minerals and Air Programs  
P.O. Box 70  
Ute Indian Tribe  
Fort Duchesne, Utah 84026



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-44426
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> MON FED 31-7J	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013314050000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0831 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 07 Township: 09.0S Range: 17.0E Meridian: S	<b>COUNTY:</b> DUCHESNE	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/9/2012  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input checked="" type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="W/O MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The above subject well had workover procedures performed (tubing leak), attached is a daily status report. On 07/05/2012 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. On 07/09/2012 the csg was pressured up to 2050 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 1200 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211</p>		<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b></p> <p>July 11, 2012</p>
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/11/2012	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 7, 9, 2012  
 Test conducted by: Cody Marx  
 Others present: \_\_\_\_\_

11720642-04211

Mon. Fed.

Well Name: <u>31-75-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NW/NE</u> Sec: <u>7</u> T <u>9</u> N/S R <u>170</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Cody Marx</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 2050 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1200</u> psig	psig	psig
End of test pressure	<u>1200</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>2050</u> psig	psig	psig
5 minutes	<u>2050</u> psig	psig	psig
10 minutes	<u>2050</u> psig	psig	psig
15 minutes	<u>2050</u> psig	psig	psig
20 minutes	<u>2050</u> psig	psig	psig
25 minutes	<u>2050</u> psig	psig	psig
30 minutes	psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

Format For Sundry

MON 31-7J-9-17

5/1/2012 To 9/30/2012

**7/3/2012 Day: 1**

on 7/3/2012 - MIRUSU WWS #7. TOO H w/ tbg. Swap out btm hole assemblies. TIH testing tbg looking for leak. - MIRUSU WWS #7. Continue blow down well. ND wellhead. NU BOP. RU work floor. Release pkr. Drop SV. Pressure up tbg to 3000 psi. Slow bleed off. Retrieve SV. TOO H w/ 155 jts tbg. LD PSN & PKR. MU new Weatherford 5 1/2" AS-1X PKR, on/off tool, & new PSN. TIH w/ 55 jts tbg. Pressure test tbg to 4000 psi. Good test. TIH w/ 50 jts tbg. Pressure test tbg to 3500 psi. No test. SDFN - MIRUSU WWS #7. Continue blow down well. ND wellhead. NU BOP. RU work floor. Release pkr. Drop SV. Pressure up tbg to 3000 psi. Slow bleed off. Retrieve SV. TOO H w/ 155 jts tbg. LD PSN & PKR. MU new Weatherford 5 1/2" AS-1X PKR, on/off tool, & new PSN. TIH w/ 55 jts tbg. Pressure test tbg to 4000 psi. Good test. TIH w/ 50 jts tbg. Pressure test tbg to 3500 psi. No test. SDFN - MIRUSU WWS #7. Continue blow down well. ND wellhead. NU BOP. RU work floor. Release pkr. Drop SV. Pressure up tbg to 3000 psi. Slow bleed off. Retrieve SV. TOO H w/ 155 jts tbg. LD PSN & PKR. MU new Weatherford 5 1/2" AS-1X PKR, on/off tool, & new PSN. TIH w/ 55 jts tbg. Pressure test tbg to 4000 psi. Good test. TIH w/ 50 jts tbg. Pressure test tbg to 3500 psi. No test. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$6,138

---

**7/5/2012 Day: 2**

**Tubing Leak**

WWS #7 on 7/5/2012 - Continue looking for tbg leak. Find leak. TIH w/ tbg. Get good test. Circulate PKR fluid. Set PKR. Land tbg. Test csg. Get good test. RDMOSU WWS #7. - Crew travel & pre-job safety meeting - Open well. TOO H w/ 10 jts tbg. Pressure test tbg to 3500 psi. Still slow bleed off. TOO H w/ 10 jts tbg. Find pin hole leak in jt # 85. LD & replace jts # 83-87. Pressure test to tbg to 3500 psi. Good test. TIH w/ remaining 84 jts tbg. Pressure test tbg to 3000 psi. Hold pressure for 30 min. Good test. Bleed off tbg. Retrieve SV. RD work floor. ND BOP. Land tbg. Circulate pkr fluid. Set pkr @ 4843'. Land tbg. NU wellhead. Pressure tesst csg to 1400 psi. Hold for 30 min. Good test. RDMOSU WWS #7. - Open well. TOO H w/ 10 jts tbg. Pressure test tbg to 3500 psi. Still slow bleed off. TOO H w/ 10 jts tbg. Find pin hole leak in jt # 85. LD & replace jts # 83-87. Pressure test to tbg to 3500 psi. Good test. TIH w/ remaining 84 jts tbg. Pressure test tbg to 3000 psi. Hold pressure for 30 min. Good test. Bleed off tbg. Retrieve SV. RD work floor. ND BOP. Land tbg. Circulate pkr fluid. Set pkr @ 4843'. Land tbg. NU wellhead. Pressure tesst csg to 1400 psi. Hold for 30 min. Good test. RDMOSU WWS #7. - Crew travel & pre-job safety meeting - Open well. TOO H w/ 10 jts tbg. Pressure test tbg to 3500 psi. Still slow bleed off. TOO H w/ 10 jts tbg. Find pin hole leak in jt # 85. LD & replace jts # 83-87. Pressure test to tbg to 3500 psi. Good test. TIH w/ remaining 84 jts tbg. Pressure test tbg to 3000 psi. Hold pressure for 30 min. Good test. Bleed off tbg. Retrieve SV. RD work floor. ND BOP. Land tbg. Circulate pkr fluid. Set pkr @ 4843'. Land tbg. NU wellhead. Pressure tesst csg to 1400 psi. Hold for 30 min. Good test. RDMOSU WWS #7. - Crew travel & pre-job safety meeting **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$20,710

---

**7/10/2012 Day: 3**

**Tubing Leak**

Rigless on 7/10/2012 - Conduct MIT - On 07/05/2012 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well. On 07/09/2012 the csg was pressured

up to 2050 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 1200 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211 - On 07/05/2012 Nathan Wisser with the EPA was contacted concerning the MIT on the above listed well. On 07/09/2012 the csg was pressured up to 2050 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 1200 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211 - On 07/05/2012 Nathan Wisser with the EPA was contacted concerning the MIT on the above listed well. On 07/09/2012 the csg was pressured up to 2050 psig and charted for 30 minute with no pressure loss. The well was not injecting during the test. The tbg pressure was 1200 psig during the test. There was not an EPA representative available to witness the test. EPA #UT20642-04211 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$21,610

---

**Pertinent Files: [Go to File List](#)**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUL 24 2012

RECEIVED

JUL 27 2012

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2598-1555  
RETURN RECEIPT REQUESTED

DIV. OF OIL, GAS & MINING

Mr. J D Horrocks  
Newfield Exploration Company  
Route 3, Box 3630  
Myton, UT 84052

9S 17E 7

Re: Underground Injection Control (UIC)  
Permission to Resume Injection  
Monument Federal 31-7J-9-17 Well  
EPA ID# UT20642-04211  
API # 43-013-31405  
Jonah Oil Field  
Duchesne County, UT

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

Dear Mr. Horrocks:

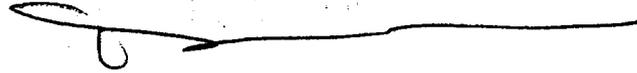
On July 16, 2012, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover to address a tubing leak and the followup mechanical integrity test (MIT) conducted on July 9, 2012. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before July 9, 2017.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director  
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman  
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Fort Duchesne, Utah 84026

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Manuel Myore, Director of Energy,  
Minerals and Air Programs  
Ute Indian Tribe  
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Spud Date: 10 29 93  
 Put on Production: 12 23 93  
 Put on Injection: 10 19 94  
 GL: 5295' KB: 5308'

# Monument Federal 31-7J-9-17

Initial Production: 50 BOPD,  
 30 MCFD, 50 BWPD

## Injection Wellbore Diagram

### SURFACE CASING

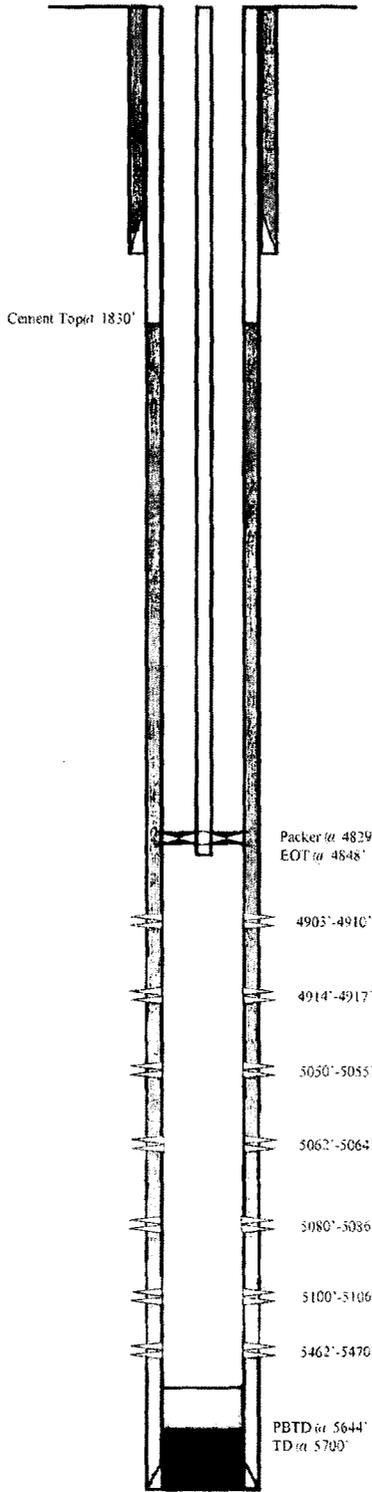
CSG SIZE: 8-5 8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (279.08')  
 DEPTH LANDED: 282'  
 HOLE SIZE: 12-1 4"  
 CEMENT DATA: 150 sxs Class "G" cement to surface.

### PRODUCTION CASING

CSG SIZE: 5-1 2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 132 jts. (5678.16')  
 DEPTH LANDED: 5691.86'  
 HOLE SIZE: 7-7 8"  
 CEMENT DATA: 132 sxs Hilift + 239 sxs Class "G".  
 CEMENT TOP AT: 1830' per CBL

### TUBING

SIZE GRADE WT.: 2-7 8" J-55 - 6.5#  
 NO. OF JOINTS: 155 jts. 4823.8' KB  
 SEATING NIPPLE: 2-7 8" (1.10')  
 SN LANDED AT: 4836.5' KB  
 ON OFF TOOL: 2-7 8" 4837.9'  
 SN: 2-7 8" 4839.3'  
 TUBING PACKER: CE @ 4829' KB  
 XN NIPPLE: 4846.6'  
 STRING LENGTH: EOT @ 4848' KB



### FRAC JOB

12 09 93 5050'-5106' Frac zone as follows:  
 30,000# 20/40 sand + 25,000# 16/30 sand in 574 bbls Viking I-35 fluid. Treated @ avg press of 2250 psi w avg rate of 24.7 BPM. ISIP 2300 psi. Calc. flush: 5050 gal. Actual flush: 5082 gal.

12 14 93 4903'-4917' Frac zone as follows:  
 33,620# 16/30 sand in 364 bbls Viking I-35 fluid. Treated @ avg press of 2400 psi w avg rate of 18 BPM. ISIP 3200 psi. Calc. flush: 4903 gal. Actual flush: 4074 gal.

\*Rod and tubing details dated to 1 10/94

04 07 05 5 YR MIT  
 9 29 06 Well Re-completed (one new perf)  
 9 27 06 5462'-5470' Frac CPl sds as follows:  
 20,941# of 20/40 sand in 276 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3448 w ave rate of 14.2 bpm w 6.5 ppq of sand. ISIP was 1950.

03-03-10 5 YR MIT  
 03 06 12 Tubing leak, MIT Completed - Updated tubing detail  
 07 09 12 Tubing Leak - MIT Completed - Updated tbg detail

### PERFORATION RECORD

Date	Depth Range	SPF	Holes
12 08 93	5100'-5106'	2 SPF	12 holes
12 08 93	5080'-5086'	2 SPF	12 holes
12 08 93	5062'-5064'	2 SPF	04 holes
12 08 93	5050'-5055'	2 SPF	10 holes
12 13 93	4914'-4917'	2 SPF	06 holes
12 13 93	4903'-4910'	2 SPF	14 holes
9 27 06	5462'-5470'	4 SPF	32 holes

**NEWFIELD**

**Monument Butte Fed 31-7J-9-17**  
 831' FNL & 1782' FEL  
 NWNE Section 7-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31405; Lease #U-44426

**BALCRON OIL**

WELL NAME: Balcron Monument Federal #31-7J  
 FIELD: Monument Butte/Jonah Unit  
 FEDERAL LEASE NO.: U-44426  
 LOCATION: NW NE Sec.7, T9S, R17E  
 831' FNL & 1782' FEL  
 COUNTY/STATE: Duchesne County, Utah  
 WORKING INTEREST: 0.805079506  
 PRODUCING FORMATION: Green River  
 COMPLETION DATE: 12-23-93  
 INITIAL PRODUCTION: 50 STBOPD, 30 MSCFGPD, 50 STBWPD  
 LAST PRODUCTION: 6.67 STBOPD, 30 MCFPD, 0 STBWPD  
 PRESENT PROD STATUS: Water Injection Well  
 Started Water injection 10-19-94.  
 CONVERSION TO INJ.: 10-4-94  
 INJECTION RATE: 275 STBWPD  
 ELEVATIONS - GROUND: 5295'  
 TOTAL DEPTH: 5700' KB

**SURFACE CASING**

STRING: 1  
 CSG SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs.  
 LENGTH: 6 jts. @ 270.08'  
 DEPTH LANDED: 282' KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 150 sxs Class "G"  
 Cement to surface

**TUBING/INJECTION STRING**

Injection Equipment & Size	Length FT.	Setting Depth FT.(w/13' KB)
KB	13.00	
1) 155 jnts 2 7/8" tbg	4824.13	4837.13
2) 2 7/8" SN (2.25" ID)	1.10	4838.23
3) 5.5" Arrow Set-1 Pkr	7.00	4845.23
End of Tubing		4845.23

Injection Packers Set 10-4-94 By Mtn States.

2 7/8" SN ID @ 2.25".  
 Arrow Set-1 Pkr set w/ 16" Tension.  
 Packer fluid - 55 gals Champion Cortron #23-83 w/60 STBW.

**Injection Horizons**

4903'- 4910' (7')	GREEN1
4914'- 4917' (3')	GREEN1
5050'- 5055' (5')	GREEN3
5062'- 5064' (2')	GREEN3
5080'- 5086' (6')	GREEN4
5100'- 5106' (6')	GREEN4

LOGS: Compensated Neutron-Litho-Density Log

**WELL REPORT**

DATE: 1-10-94 JZ  
 API NO.: 43-013-31405  
 EPA PERMIT NO.: UT2642-04211  
 UTAH CAUSE NO.: UIC-149  
 NET REVENUE INT.: 0.73831617 Oil  
 0.66359285 Gas  
 SPUD DATE: 10-29-93  
 OIL GRAVITY: 43 API  
 BHT: 129 Deg.F  
 LAST MIT DATE: 10-14-94  
 1075 to 1080 psig in 1 hr,  
 No Loss.  
 KB: 5308' (13' KB)  
 PLUG BACK TD: 5644.74' KB

**PRODUCTION CASING**

STRING: 1  
 CSG SIZE: 5 1/2"  
 GRADE: K-55  
 WEIGHT: 15.50 lbs.  
 LENGTH: 132 jts @ 5678.16'  
 DEPTH LANDED: 5691.86' KB  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 132 sxs Hillift &  
 239 sxs Class "G"  
 CEMENT TOP AT: 1830' KB from Daily Report

**PERFORATION RECORD**

4903'- 4910' (7')	2 SPF	GREEN1
4914'- 4917' (3')	2 SPF	GREEN1
5050'- 5055' (5')	2 SPF	GREEN3
5062'- 5064' (2')	2 SPF	GREEN3
5080'- 5086' (6')	2 SPF	GREEN4
5100'- 5106' (6')	2 SPF	GREEN4

**Brakdown/Acid Job**

\*\*\*SEE NEXT PAGE\*\*\*

**FRAC JOB**

\*\*\*SEE NEXT PAGE\*\*\*

Balcron Monument Federal #31-7J  
NW NE Sec.7, T9S, R17E  
Federal Lease #U-44426  
Monument Butte/Jonah Unit  
Duchesne County, Utah

Balcron Oil  
5-4-94 JZ  
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BREAKDOWN

-----  
4903'- 4917', 3024 gals 2% KCL water & 40 ball sealers. Initial break @ 3700 psi @ 3 BPM, back to 2200 psi @ 4.8 BPM, surge ball off, pump for rate 4.8 BPM @ 2500 psi. ISIP @ 1500 psi. Did not work. 500 gal. 15% HCl Acid.  
5050'- 5064', 40 bbls. 2% KCL water & 28 ball sealers. Initial break @ 4100 psi @ 1.5 BPM, back to 1600 psi @ 3.6 BPM, surge ball off, pump for rate, 5.9 BPM @ 2500 psi. ISIP @ 1100 psi.  
5080'- 5106', 47 bbls. 2% KCL water & 48 ball sealers. Initial break @ 3200psi @ 1.8 BPM, back to 2200 psi @ 4.0 BPM, surge ball off, pump for rate, 4.5 BPM @ 2400 psi. ISIP @ 1500 psi.

FRAC JOB

-----  
4903'- 4917', Frac w/Western on 12-14-93.  
376 bbls KCl w/30,300 lbs 16-30 sand.  
Avg 19 BPM @ 2400 psi, ISIP @ 3200 psi,  
5 min @ 1660 psi, 10 min @ 1490 psi,  
15 min @ 1300 psi.  
  
5050'- 5106', Frac w/Western on 12-9-93.  
18,000 gals 2% KCL Water & 1,000 gal 15% HCL  
w/30,000 lbs 20-40 sand & 25,000 lbs 16-30 sand.  
Avg 24.7 BPM @ 2470 psi, max 26.2 BPM @ 2890 psi.  
ISIP @ 2300 psi, 5 min @ 1990 psi, 10 min @ 1970  
psi, 15 min @ 1920 psi.

BALCRON MONUMENT FEDERAL #31-7  
 NW NE SEC.7, T9S, R17E  
 831' FNL & 1782' FEL  
 Lease No. U-44426  
 MONUMENT BUTTE FIELD/JONAH UNIT  
 DUCHESNE COUNTY, UTAH

BALCRON OIL  
 1-10-94 JZ

Injection well Completion Diagram

Elev.GR @ 5295'  
 Elev.KB @ 5308' (13' KB)

SURFACE CASING

8 5/8", J-55, 24#  
 Six joints @ 279.08'  
 Landed @ 282'KB  
 Cemented w/150 sxs Class "G"  
 Cement to surface  
 Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#  
 132 jts @ 5678.16'  
 Landed @ 5691.86'KB  
 Cemented w/132 sxs Hillift &  
 239 sxs Class "G"  
 Cement Top @ 1830'KB from Daily Report  
 Hole Size @ 7 7/8"

TUBING/INJECTION STRING

2 7/8", 6.5#, J-55  
 155 jnts @ 4824.13'  
 SN @ 2 7/8" X 1.1' (2.25" ID)  
 5.5" Arrow Set-1 Pkr @ 7.00'  
 Total String Length @ 4832.23'  
 SN Landed @ 4838.23' KB  
 Packer Landed @ 4845.23' KB

2 7/8" SN ID @ 2.25".  
 Arrow Set-1 Pkr set w/ 16" Tension.  
 Packer fluid - 55 gals Champion Cortron #23-83  
 w/ 60 STBW.

Proposed Injection Horizons

4903'- 4910' (7') 2 SPF	GREEN1
4914'- 4917' (3') 2 SPF	GREEN1
5050'- 5055' (5') 2 SPF	GREEN3
5062'- 5064' (2') 2 SPF	GREEN3
5080'- 5086' (6') 2 SPF	GREEN4
5100'- 5106' (6') 2 SPF	GREEN4

Tracer Survey ran 12-19-94.

