



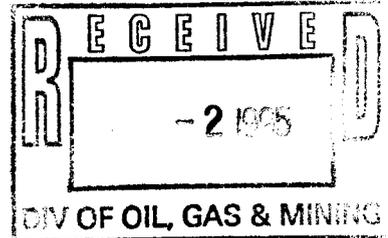
**EQUITABLE RESOURCES  
ENERGY COMPANY**

**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

February 28, 1995



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

Gentlemen:

RE: Balcron Monument Federal #24-25  
SE SW Section 25, T8S, R17E  
Uintah County, Utah

Enclosed is our Application to Drill the referenced well.

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

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosure

cc: Utah Division of Oil, Gas and Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side) - 2 1995

**CONFIDENTIAL**

U-67845

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

5. LEASE DESIGNATION AND SERIAL NO.  
U-67845

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 SE SW Section 25, T8S, R17E      653' FSL, 2028' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 10 miles southeast 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  
 6,250'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 GL 5018.9'

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

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

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

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

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE February 28, 1995  
 (This space for Federal or State office use)

PERMIT NO. 43-047-32669 APPROVAL DATE \_\_\_\_\_

APPROVED BY JAN [Signature] TITLE Petroleum Engineer DATE 6/1/95  
 CONDITIONS OF APPROVAL, IF ANY:

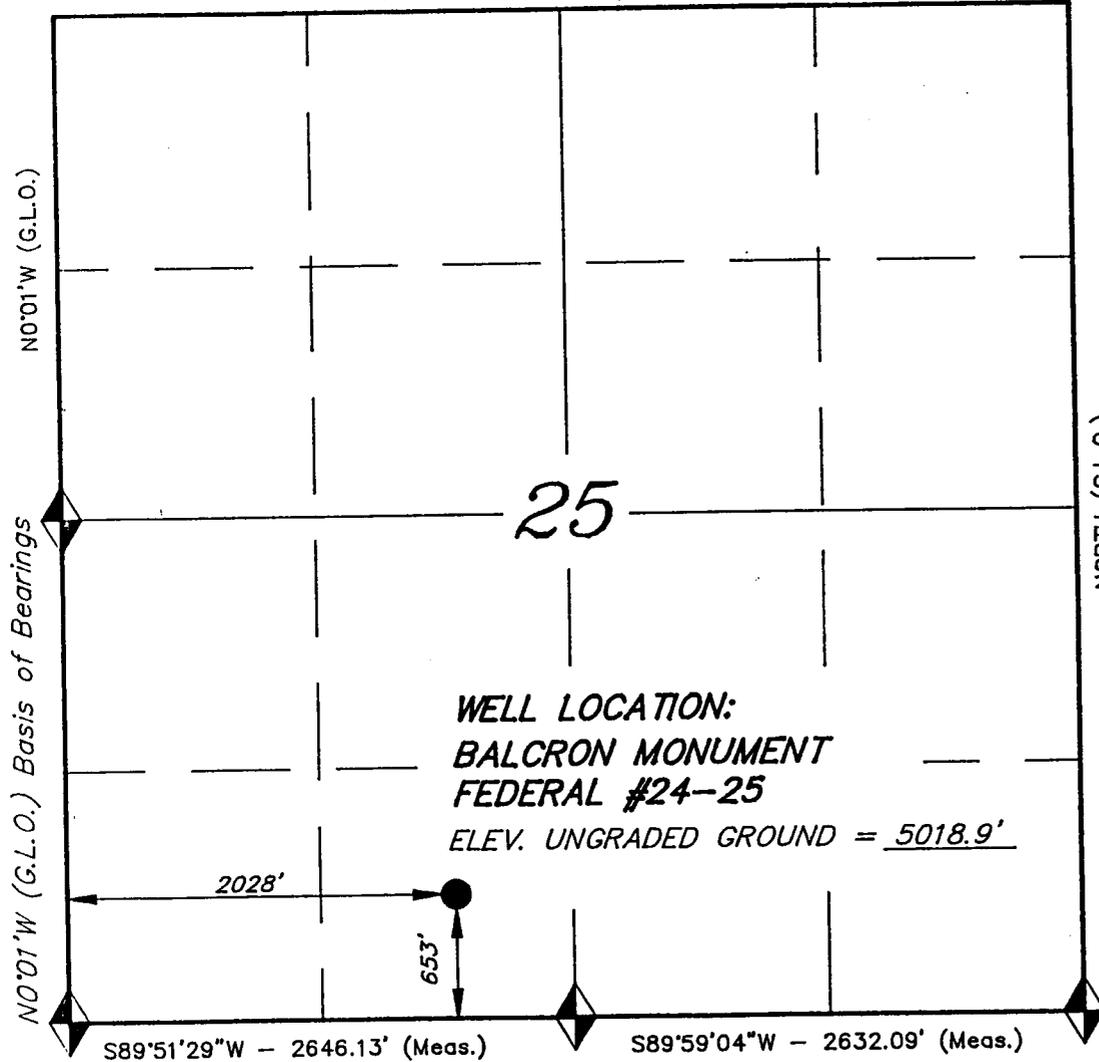
\*See Instructions On Reverse Side

T8S, R17E, S.L.B.&M.

**EQUITABLE RESOURCES ENERGY CO.**

N89°58'W - 79.90 (G.L.O.)

WELL LOCATION, BALCRON MONUMENT FEDERAL #24-25, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 25, T8S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.

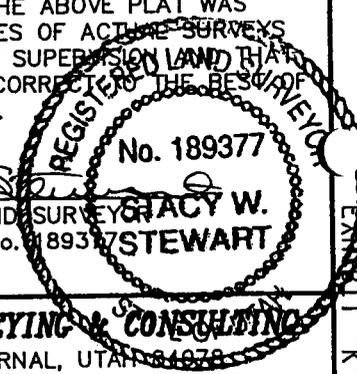


**WELL LOCATION:**  
**BALCRON MONUMENT**  
**FEDERAL #24-25**  
ELEV. UNGRADED GROUND = 5018.9'



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.

*Stacy W. Stewart*  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 18937  
STATE OF UTAH



<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 38 EAST 100 NORTH, VERNAL, UTAH 84478 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: G.S. R.H.
DATE: 11-17-94	WEATHER: COOL
NOTES:	FILE #24-25

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

EXHIBIT "K"

## **EXHIBITS**

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

1/6/95

# **CONFIDENTIAL**

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

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

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #24-25  
SE SW Section 25, T8S, R17E  
Uintah County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.

- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following attachment:

Drilling Program/Casing Design (EXHIBIT "D")

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

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

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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

7. OTHER

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

SURFACE USE PROGRAM

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #24-25  
SE SW Section 25, T8S, R17E  
Uintah County, Utah

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

1. EXISTING ROADS:

- a. From Myton, Utah, take Highway #40 west out of town 1.6 miles to the Sand Wash road. Go south on the Sand Wash road for approximately 10.7 miles to a road intersection. Turn left and continue 3.7 miles to a road intersection. Stay right and proceed 0.4 miles to proposed access road sign. Follow flags 0.3 miles to location.
- b. Existing roadways need no improvements for these drilling operations.
- c. All existing roads used by these drilling operations will be maintained in the same or better condition as were existing prior to entry.
- d. See EXHIBIT "F" Maps A and B for access route.

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

- a. Length: Approximately 0.3 miles of new access road will be required.
- b. Width: Maximum 30' overall right-of-way with an 18' running surface.
- c. Maximum grade: < 8%
- d. Turnouts: None
- e. Drainage design: Low water crossing if necessary.
- f. No culverts or bridges will be required.
- g. Surface materials: Any surface materials which are required will be native materials from the location and/or access site.
- h. No gates, cattleguards, or fence cuts and/or modifications to existing facilities will be required.

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

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

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

3. LOCATION OF EXISTING WELLS:

See EXHIBIT "I" Map C.

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

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

5. LOCATION AND TYPE OF WATER SUPPLY:

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

6. CONSTRUCTION ROAD/LOCATION MATERIALS:

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

7. METHODS FOR HANDLING WASTE MATERIALS AND DISPOSAL:

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

8. ANCILLARY FACILITIES:

None anticipated.

9. LOCATION SITE LAYOUT:

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

- b. The drill pad layout, showing elevations, orientation, and access to the pad is shown on EXHIBIT "L".
- c. The drilling rig facilities layout is shown on EXHIBIT "G". No permanent living facilities are planned. There will be two or three trailers on location during drilling operations.
- d. The reserve pit and the blooie pit will be constructed as a combination pit capable of holding 12,000 bbls of fluid. The size of the pit will be approximately equivalent to four times the TD hole volume. The blooie pit might be used for testing, but only after the drilling is completed and the drilling equipment and personnel are off the location.
- e. The reserve pit will be located on the South side of the location.
- f. If needed, flare pit will be located downwind of the prevailing wind directions a minimum of 100' from the wellhead and 30' from the reserve pit fence.
- g. Stockpiled topsoil (first 6 inches) will be stored on the North side between corners 1 and 8.
- h. Access to the wellpad will be from the SW near corner #6.
- i. All pits will be fenced according to the following minimum standards:
  - a. 39-inch net wire will be used with at least one strand of barbed wire on top of the net wire unless pipe or some type of reinforcement rod is attached to the top of the entire fence.
  - b. The net wire shall be no more than 2 inches above the ground. If barbed wire it shall be 3 inches above the net wire. Total height of fence will be at least 42 inches.
  - c. Corner posts will be cemented and/or braced in such a manner to keep the fence tight at all times. Standard steel, wood, or pipe posts will be used between the cornerbraces. Maximum distance between any two posts will be no greater than 16'.
  - d. All wire will be stretched before it is attached to the corner posts.

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

10. PLANS FOR RECLAMATION OF LOCATION SITE:

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

10. PLANS FOR RECLAMATION OF LOCATION SITE:

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

Producing location:

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

Dry hole/abandoned location:

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

11. SURFACE OWNERSHIP:

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

12. OTHER INFORMATION:

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

13. OPERATOR'S REPRESENTATIVES:

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

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

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

14. CERTIFICATION:

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

February 28, 1995  
Date

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

/rs

**BALCRON OIL**

**Balcron Monument Federal #24-25**

**SE SW Section 25, T8S, R17E, SLB&M**

**Uintah County, Utah**

**PALEONTOLOGY REPORT**

**WELLPAD LOCATION AND ACCESS ROAD**

**BY**

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

**DECEMBER 28, 1994**

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #24-25  
SE, SW Section 25, T8S, R17E, SLB&M, Uintah County, Utah.

Description of Geology and Topography-

This well is located 7 miles south and 5.5 miles east of Myton, Utah. It sits on a somewhat flat area with a gentle slope to the northeast and a gully west of the location. The area has a clay-silt with interbedded sandstone. The wellpad area has a thin ground cover of sandy silt and angular rock fragments. The gully has an outcrop of maroon mudstone.

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

Paleontological material found -

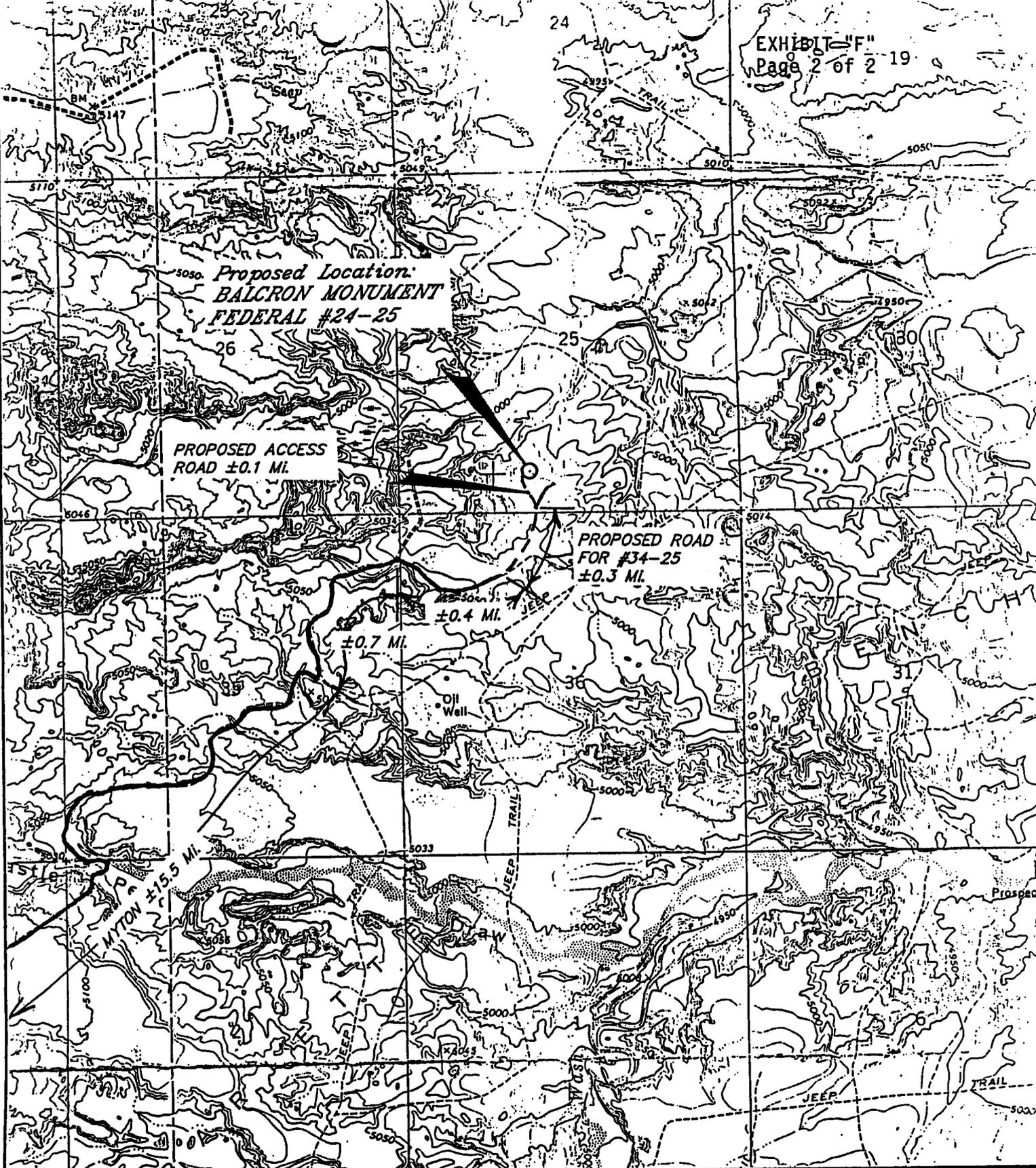
No vertebrate fossils were found on the wellpad location or access road.

Recommendations-

No other recommendations are made for this location.

Allen H. Stambler

Date December 29, 1994



**EQUITABLE RESOURCES CO.**

BALCRON MONUMENT FEDERAL #24-25  
SECTION 25, T8S, R17E, S.L.B.&M.  
TOPO "B"



SCALE: 1" = 2000'

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

38 WEST 100 NORTH VERNAL, UTAH 84078

**ABSTRACT**

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of ten proposed well locations and access routes (Balcron Monument Federal wells #42-12J, 11-7J, 41-12J, 42-14J, 32-14J, 22-14J, 24-25, 34-25, 43-26 and 14-26). These evaluated locations are situated on federally administered lands located in the Monument Buttes and Pleasant Valley localities of Duchesne and Uintah Counties, Utah. This evaluation involved a total of 135.15 acres, of which 100 acres are associated with the well pads and an additional 35.15 acres are associated with access road rights-of-way. One additional well included in this report, (Monument Federal 12-7J) was previously inventoried in a forty acre intensive zone (inventory #013-163, Vernal BLM). The well pad and access road for that location have already been constructed. These evaluations were conducted by F.R. Hauck and Glade Hadden of AERC on December 15 and 20, 1994.

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

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

Two isolated artifacts were noted during the investigations. An isolated Rose Spring style projectile point (Isolate 1461G/X1, see Figure 1) was recovered from the disturbance zone of well # 43-26 (see Map 3). A non-diagnostic biface chopping tool was discovered but not collected near the well pad for well # 42-12J. This tool is similar in appearance to others found in the area (Hauck and Hadden 1994d).

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

**CULTURAL RESOURCE EVALUATION  
OF PROPOSED WELL LOCATIONS AND ACCESS ROUTES  
IN THE MONUMENT BUTTES AND  
PLEASANT VALLEY LOCALITIES  
OF DUCHESNE & UINTAH COUNTIES, UTAH**

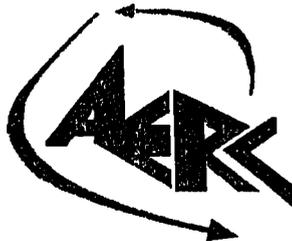
**Report Prepared for Balcron Oil Company**

**Dept. of Interior Permit No.: UT-94-54937  
AERC Project 1461 (BLCR-94-11)**

**Utah State Project No.: UT-94-AF-775b**

**Principal Investigator  
F. Richard Hauck, Ph.D.**

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



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

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

**December 30, 1994**

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## GENERAL INFORMATION

On December 15 and 20, 1994, AERC archaeologists F.R. Hauck and Glade Hadden conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved ten proposed well locations and associated access roads (Balcron Monument Federal Units 42-12J, 11-7J, 41-12J, 42-14J, 32-14J, 22-14J, 24-25, 14-26, 34-25, 43-26 and 14-26), and an additional well (Balcron Monument Federal 12-7J which has been constructed and previously inventoried in a forty acre intensive survey zone (inventory 013-163, Vernal BLM). The project area is in the Monument Buttes and Pleasant Valley localities south east of Myton, Utah (see Map 1). Some 135.15 acres were examined which include 100 acres associated with the well pads and some 35.15 acres associated with the access routes, all of which are situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah.

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

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

### Project Location

The project location is in the Monument Buttes locality of Duchesne County, and the Pleasant Valley locality of Uintah County. All of the evaluated wells and access routes are situated on the Myton SE and Pariette Draw SW 7.5 minute topographic quads (see Maps).

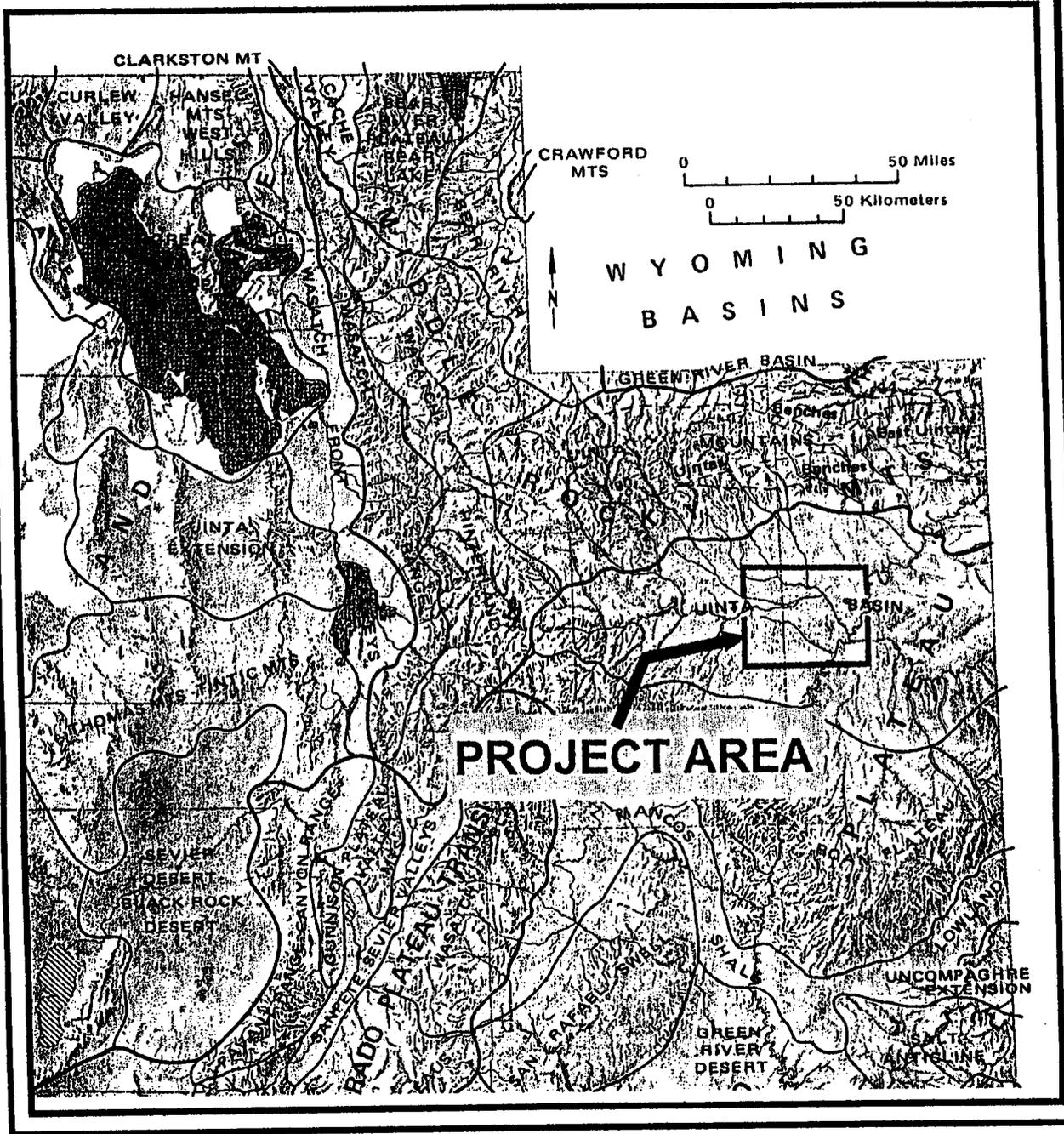
Balcron Monument Federal #11-7J is situated in the NW quarter of the NW quarter of Section 7, Township 9 South, Range 17 East SLBM, together with ca. 0.3 miles of access route (see Map 2).

Balcron Monument Federal #12-7J is situated in the SW quarter of the NW quarter of Section 7, Township 9 South, Range 17 East SLBM (see Map 2).

Balcron Monument Federal #41-12J is situated in the NE quarter of the NE quarter of Section 12, Township 9 South, Range 16 East SLBM, together with ca. 0.4 miles of access route (see Map 2).

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

**PROJECT: BLCR-94 - 11**  
**SCALE: see below**  
**QUAD: UG & MS Map 43**  
**DATE: 12-30-94**



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

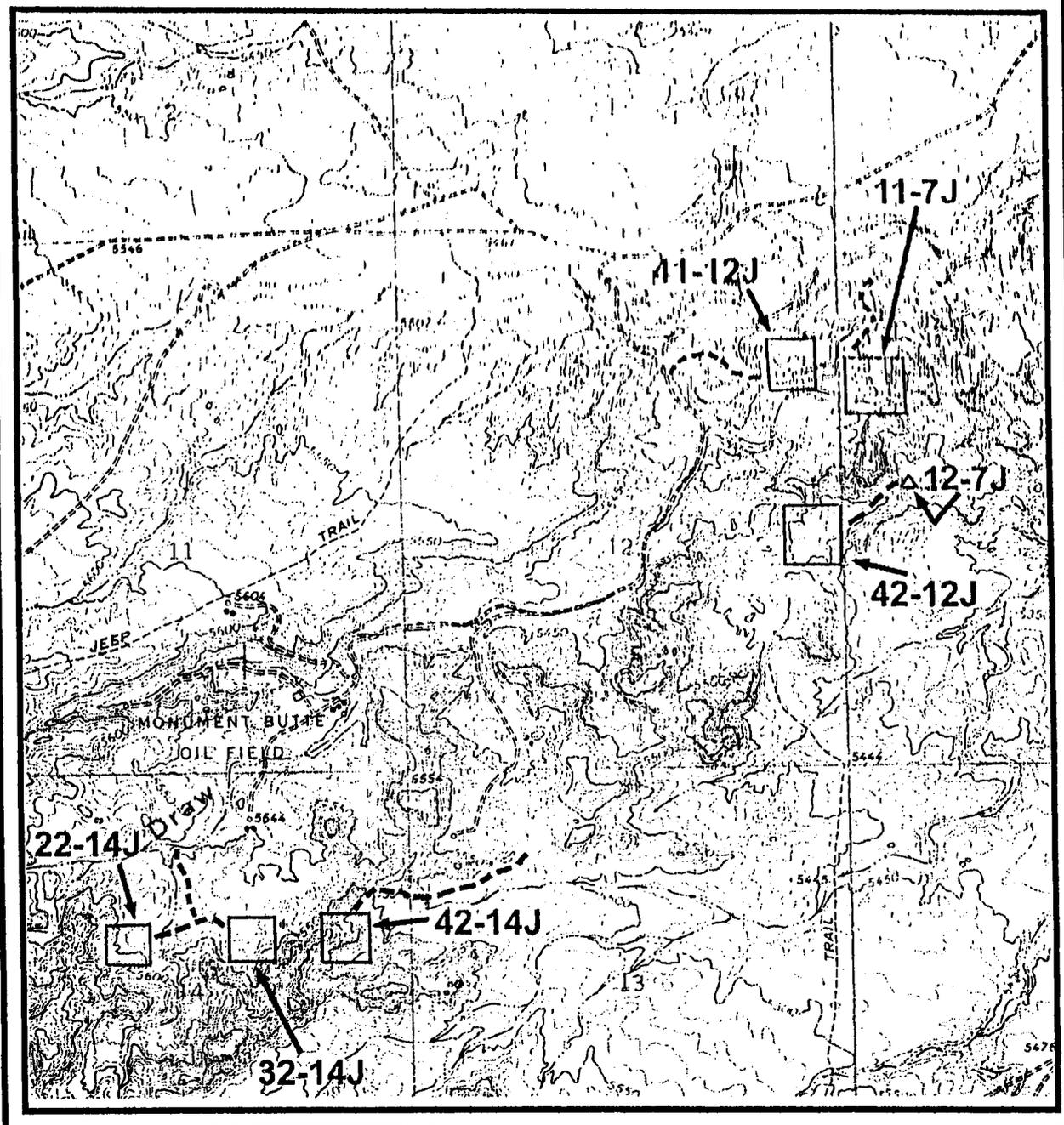


- T. multiple**
- R. multiple**

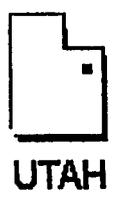
**Meridian: Salt Lake B & M**

**MAP 2: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 11-7J, 12-7J,  
22-14J, 32-14J, 41-12J, 42-12J, and  
42-14J IN THE  
MONUMENT BUTTES LOCALITY OF  
DUCHECNE COUNTY, UTAH**

**PROJECT: BLCR-94-11**  
**SCALE: 1:24,000**  
**QUAD: Myton SE, Utah**  
**DATE: 12-30-94**



**LEGEND:**



**T. 9 South**  
**R. 16 East**  
**Meridian: Salt Lake B & M**

**Existing Well Location**



**Survey Plot**



**Access Route**



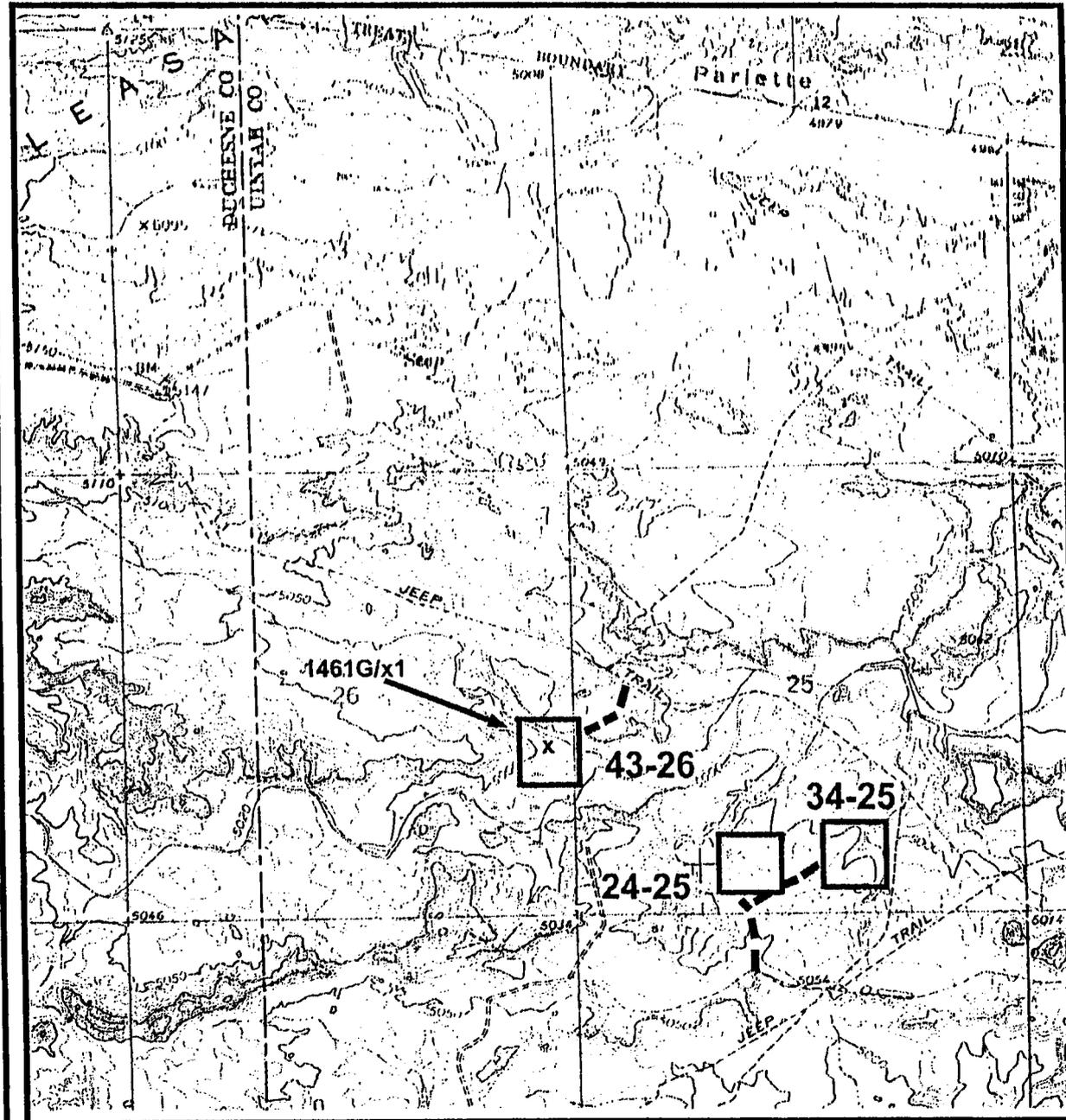
**MAP 3: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 24-25, 34-25, and  
43-26 IN THE PLEASANT VALLEY  
LOCALITY OF UINTAH COUNTY, UTAH**

**PROJECT: BLCR-94-11**

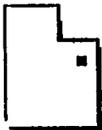
**SCALE: 1:24,000**

**QUAD: Parlette Draw SW, Utah**

**DATE: 12-30-94**



**LEGEND:**



**UTAH**

**T. 8 South**

**R. 17 East**

**Meridian: Salt Lake B & M**

**Isolated Artifact**

**Survey Plot**

**Access Route**

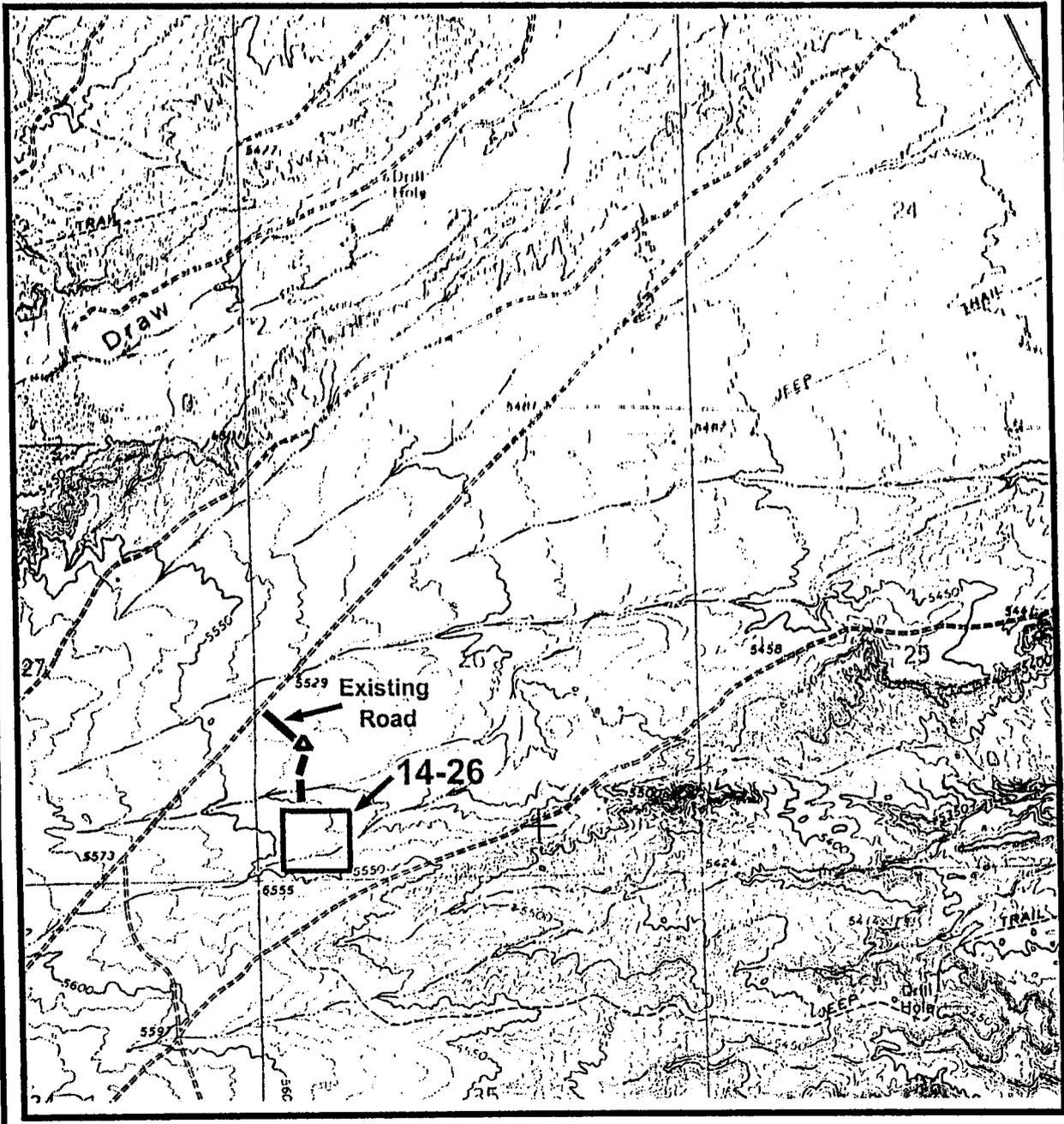
**x**



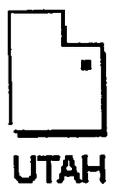
**MAP 4: CULTURAL RESOURCE SURVEY  
OF BALCRON UNIT 14-26 IN THE  
MONUMENT BUTTES LOCALITY OF  
DUCHESNE COUNTY, UTAH**



**PROJECT: BLOR-94-11**  
**SCALE: 1:24,000**  
**QUAD: Myton 8E, Utah**  
**DATE: 12-30-94**

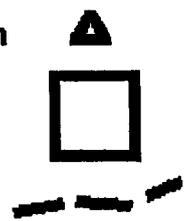


**LEGEND:**



**T. 8 South**  
**R. 16 East**  
**Meridian: Salt Lake B & M**

**Existing Well Location**  
**Survey Plot**  
**Access Route**



Balcron Monument Federal #42-12J is situated in the SE quarter of the NE quarter of Section 12, Township 9 South, Range 16 East SLBM, together with ca. 0.3 miles of access route (see Map 2).

Balcron Monument Federal #22-14J is situated in the SE quarter of the NW quarter of Section 14, Township 9 South, Range 16 East SLBM, together with ca. 0.1 miles of access route (see Map 2).

Balcron Monument Federal #32-14J is situated in the SW quarter of the NE quarter of Section 14, Township 9 South, Range 16 East SLBM, together with ca. .03 miles of access route (see Map 2).

Balcron Monument Federal #42-14J is situated in the SE quarter of the NE quarter of Section 14, Township 9 South, Range 16 East SLBM, together with ca. 0.6 miles of access route (see Map 2).

Balcron Monument Federal #24-25 is situated in the SE quarter of the SW quarter of Section 25, Township 8 South, Range 17 East SLBM, together with ca. 0.1 miles of access route (see Map 3).

Balcron Monument Federal #34-25 is situated in the SW quarter of the SE quarter of Section 25, Township 8 South, Range 17 East SLBM, together with ca. 0.4 miles of access route (see Map 3).

Balcron Monument Federal #43-26 is situated in the NE quarter of the SE quarter of Section 26, Township 8 South, Range 17 East SLBM, together with ca. 0.2 miles of access route (see Map 3).

Balcron Monument Federal #14-26 is situated in the SW quarter of the SW quarter of Section 26, Township 8 South, Range 16 East SLBM, together with ca. 0.2 miles of access route (see Map 4).

### Environmental Description

The project area is within the 5000 to 5500 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project localities.

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

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

## PREVIOUS RESEARCH IN THE LOCALITY

### File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on December 19, 1994. A similar search was conducted in the Vernal District Office of the BLM on December 15, 1994. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

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

### Prehistory and History of the Cultural Region

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

### Site Potential in the Project Development Zone

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

horse herds. Evidence of Formative Stage occupation, i.e., Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

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

## FIELD EVALUATIONS

### Methodology

Intensive evaluations consisted of the archaeologists walking a series of 10 to 20 meter-wide transects across a 10 acre area associated with each ten acre well pad area. Access routes are evaluated by the archaeologists walking a pair of 10 to 15 meter-wide transects on either side of the flagged access route rights of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 35.15 acres) was examined for the various proposed access roads, in addition to the 100 acres inventoried on the well pads.

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

### Site Significance Criteria

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

- The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*
- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
  - b. that are associated with the lives of persons significant in our past; or*
  - c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or*
  - d. that have yielded, or may be likely to yield, information important in prehistory or history.*

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

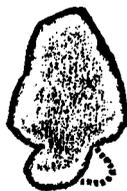
In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

### Results of the Inventory

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

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

One diagnostic isolated artifact was collected during the evaluation. Isolate 1461G/x1 is a Rose Spring style projectile point (see Figure 1) collected from the disturbance zone of well # 43-26 (see Map 3). A detailed evaluation of the locality failed to yield any identifiable features or cultural contexts that would demonstrate the presence of an archaeological locus. A single non-diagnostic tool was noted in the area of well 42-12J. This tool was a simple chopper constructed by bifacially removing several flakes from one end of a hand-sized cobble. The occurrence of this tool fits a previously noted pattern (Hauck and Hadden 1994d), and may be related to the ambush hunting and subsequent butchering of large game animals, possibly during the Archaic period. A detailed evaluation of the locality failed to yield any identifiable features or cultural contexts that would demonstrate the presence of an archaeological locus.



**FIGURE 1**  
**Isolate 1461G/x1**  
**(Actual Size)**

## CONCLUSION AND RECOMMENDATIONS

No known significant cultural resources will be adversely impacted during the development and operation of the Balcron Well Units as evaluated during this AERC project.

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

1. all vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways;
2. all personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area; and
3. the authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



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

## REFERENCES

**Fike, Richard E. and H. Blaine Phillips II**

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

**Hauck, F. Richard**

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

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

**Hauck, F. Richard and Glade V Hadden**

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

Company, BLCR-93-9, Archaeological-Environmental Research Corporation, Bountiful.

- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.
- 1993e Cultural Resource Evaluation of Seven Proposed Wells in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-11, Archaeological-Environmental Research Corporation, Bountiful.
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- 1994d Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Castle Peak Draw and Eightmile Flat Localities of Duchesne and Uintah Counties, Utah. Report Prepared for Balcron Oil Company, BLCR-94-10, Archaeological-Environmental Research Corporation, Bountiful.
- Hauck, F. Richard and Norman, V. Garth  
1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.
- Hauck, F. Richard and Dennis Weder  
1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42, of the Archeological-Environmental Research Corporation, Bountiful.
- Stokes, W. L.  
1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake.

# Balcron Oil Well Prognosis

EXHIBIT "C"

Well Name	BALCRON MONUMENT FEDERAL # 24-25	Exploratory	Control Well	BMF #23-25
Location	SE SW SECTION 25-T8S-R17E 653' FSL, 2028' FWL	Development	Operator	EREC-BOD
County	UINTAH	Field	KB	5002
State	UTAH	Section	Section	NESW 25
Total Depth	6250	Township	Township	8S
GL (Ung)	5018.9	Range	Range	17E
	EST. KB			5027

Formation Tops	Prognosis		Sample Top		Control Well	High/Low		Deviation
	Depth	Datum	Depth	Datum	Datum	Prog	Cntl	
UINTA	SURFACE							
GREEN RIVER	1709	3318			3288			
HORSEBENCH SS	2645	2382			2352			
2ND GARDEN GULCH	4183	844			814			
Y-3 SAND (PAY)	4526	501			471			
YELLOW MARKER	4791	236			206			
DOUGLAS CREEK	4965	62			32			
R-5 SAND (PAY)	5155	-128			-158			
2ND DOUGLAS CREEK	5225	-198			-228			
G-1 SAND (PAY)	5294	-267			-297			
GREEN MARKER	5415	-388			-422			
CARBONATE MARKER	5779	-752			-782			
B-1 SAND (PAY)	5819	-792			-822			
B-2 SAND (PAY)	5878	-851			-881			
UTELAND BUTTE LIME	6183	-1156			NDE			
TD	6250							

**Samples**

50' FROM 1650' TO 4200'

30' FROM 4200' TO TD

5' THROUGH EXPECTED PAY

5' DRILLING BREAKS

**DST,s**

DST #1 NONE

DST #2

DST #3

DST #4

**Wellsite Geologist**

Name: \_\_\_\_\_

From: \_\_\_\_\_ to: \_\_\_\_\_

Address: \_\_\_\_\_

Phone # \_\_\_\_\_ wk. \_\_\_\_\_ hm.

Fax # \_\_\_\_\_

**Logs**

DLL FROM SURF CSG TO TD

LDT/CNL FROM 3900' TD

**Cores**

Core #1 NONE

Core #2

Core #3

Core #4

**Mud Logger/Hot Wire**

Company: \_\_\_\_\_

Required: (Yes/No) YES

Type: TWO MAN

Logger: \_\_\_\_\_

Phone # \_\_\_\_\_

Fax # \_\_\_\_\_

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

**Report To:** 1st Name: DAVE BICKERSTAFF Phone # (406) 259-7860 wk. 245-2261 hm.

2nd Name: KEVEN REINSCHMIDT Phone # " wk. 248-7026 hm.

**Prepared By:** K.K. REINSCHMIDT 2/27/95 Phone # \_\_\_\_\_ wk. \_\_\_\_\_ hm.



BALCRON OIL CO.

<b>Operator: BALCRON OIL</b>	<b>Well Name: Monument Fed. 24-25</b>
<b>Project ID:</b>	<b>Location: Uintah/Utah</b>

Design Parameters:

Mud weight ( 8.60 ppg) : 0.447 psi/ft  
 Shut in surface pressure : 2167 psi  
 Internal gradient (burst) : 0.100 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

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

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	6,250	5-1/2"	15.50	K-55	ST&C	6,250	4.825
	Collapse Load Strgth S.F. (psi) (psi)		Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load Strgth S.F. (kips) (kips)	
1	2792	4040 1.447	2792	4810	1.72	96.88	222 2.29 J

Prepared by : McCoskery, Billings, MT  
 Date : 02-27-1995  
 Remarks :

Minimum segment length for the 6,250 foot well is 1,500 feet.  
 The mud gradient and bottom hole pressures (for burst) are 0.447 psi/ft and 2,792 psi, respectively.

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

EXHIBIT E

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

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

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

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

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



Proposed Location:  
**BALCRON MONUMENT**  
FEDERAL #24-25

PROPOSED ACCESS  
ROAD ±0.1 Mi.

PROPOSED ROAD  
FOR #34-25  
±0.3 Mi.

±0.4 Mi.  
±0.7 Mi.

MYTON ±15.5 Mi.

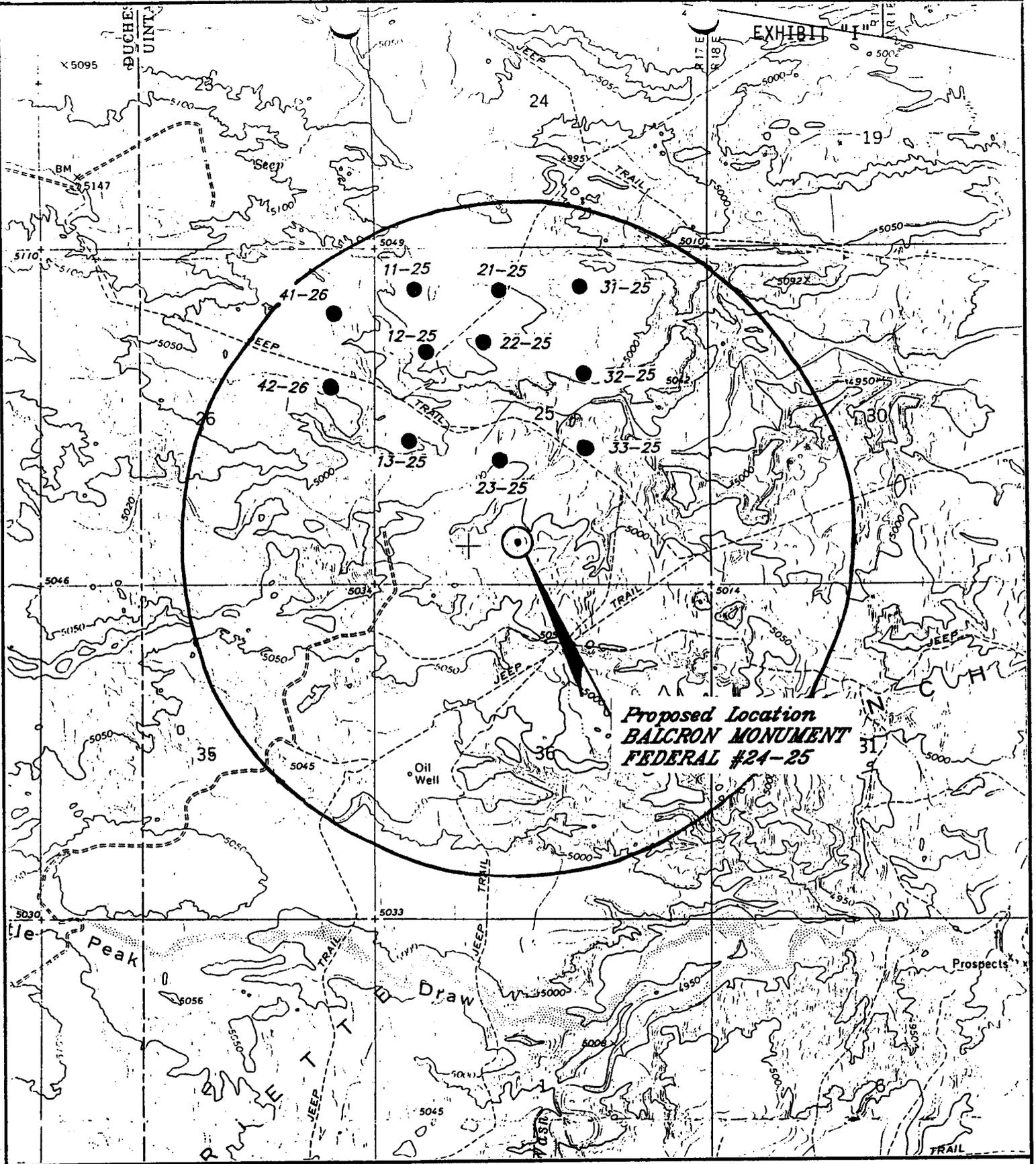
**EQUITABLE RESOURCES CO.**

BALCRON MONUMENT FEDERAL #24-25  
SECTION 25, T8S, R17E, S.L.B.&M.  
TOPO "B"



SCALE: 1" = 2000'

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



**EQUITABLE RESOURCES ENERGY CO.**

BALCRON MONUMENT FEDERAL #24-25  
 SECTION 25, T8S, R17E, S.L.B.&M.  
 TOPO "C"



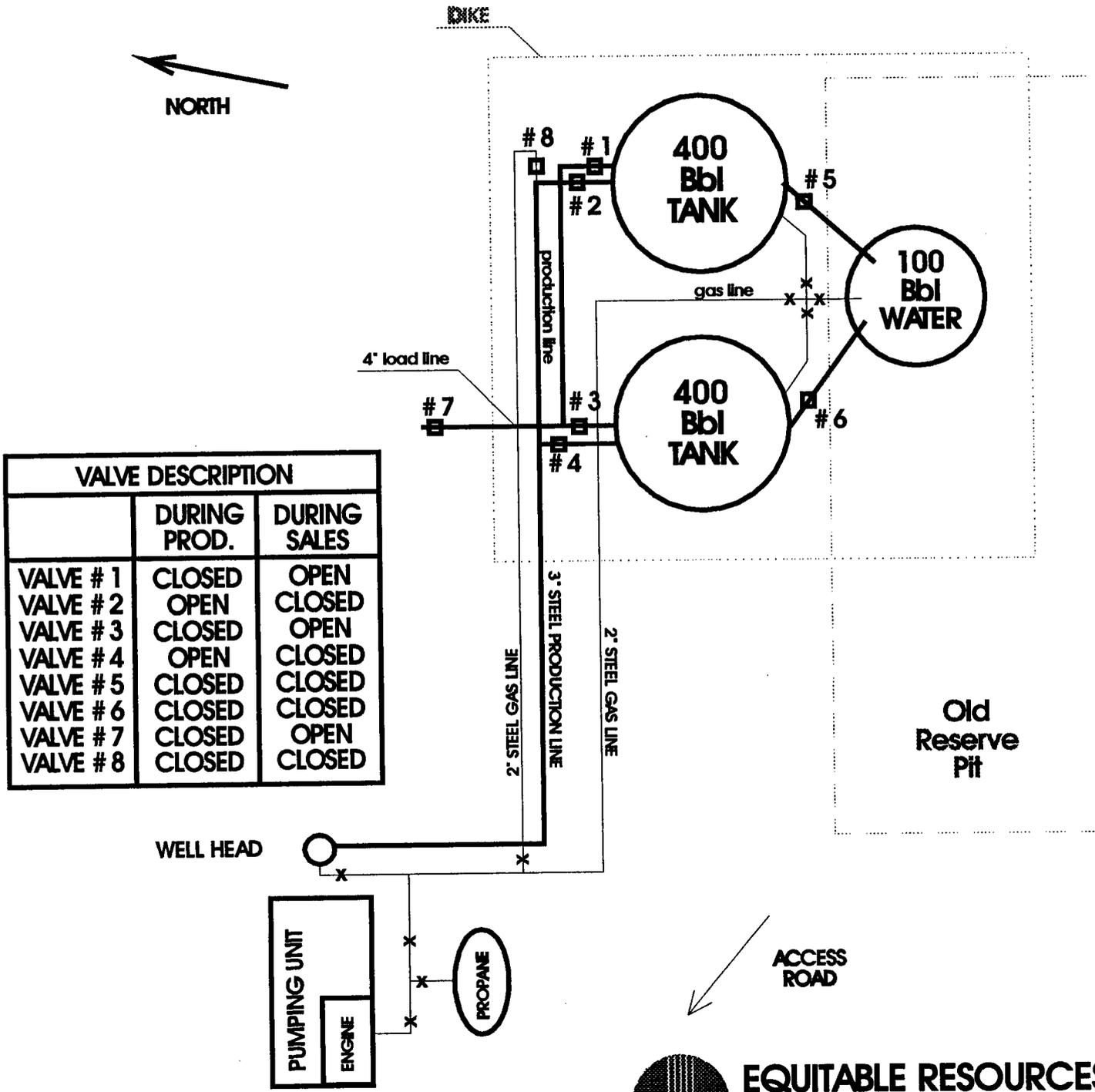
SCALE: 1" = 2000'

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

**Equitable Resources Energy Company**  
**Balcron Monument Federal 24-25**  
**Proposed Production Facility Diagram**

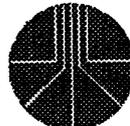
EXHIBIT "J"

**Balcron Monument Federal 24-25**  
**SE SW Sec. 25, T8S, R17E**  
**Utah County, Utah**  
**Federal Lease # U-67845**  
**653' FSL, 2028' FWL**



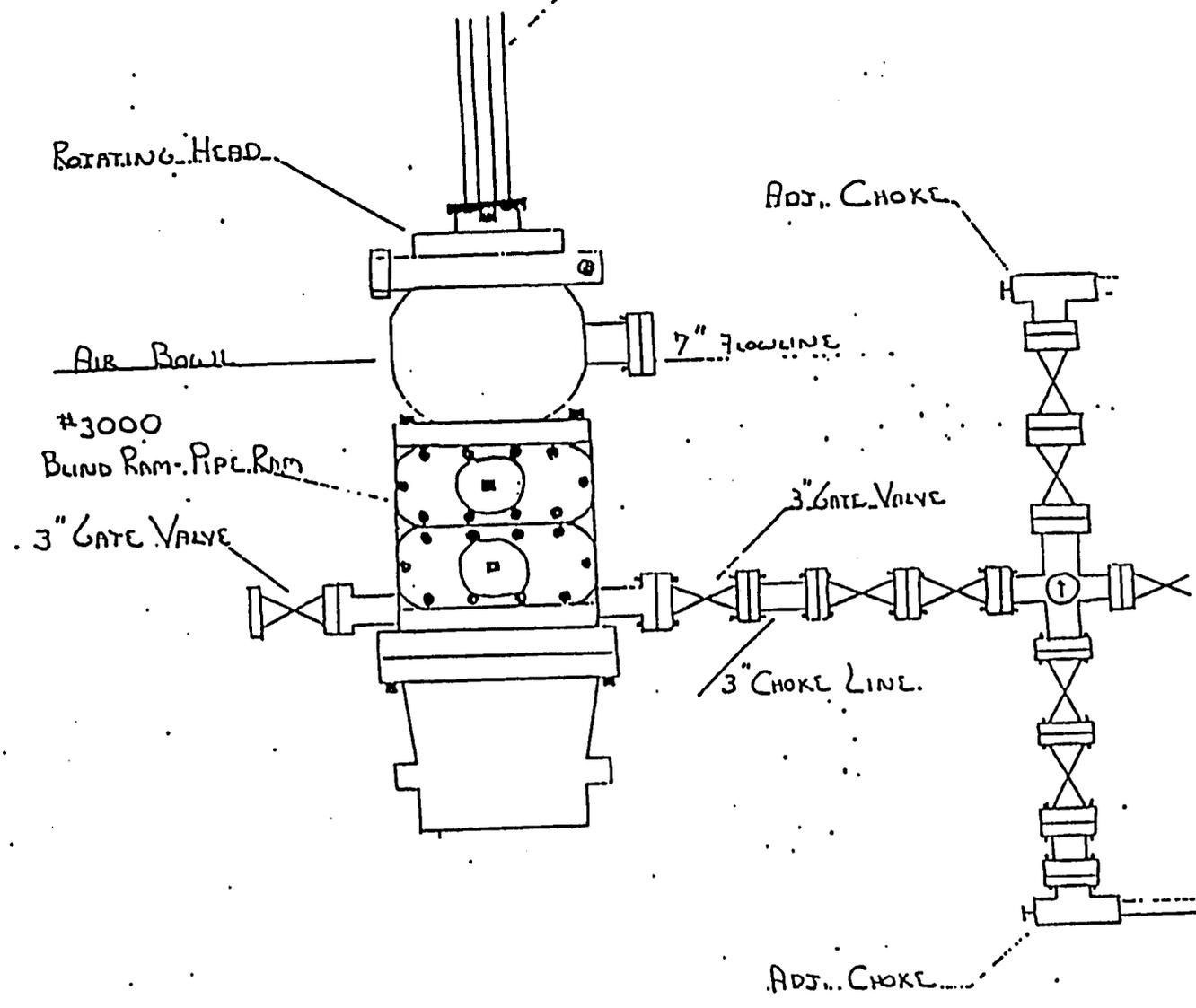
VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE # 1	CLOSED	OPEN
VALVE # 2	OPEN	CLOSED
VALVE # 3	CLOSED	OPEN
VALVE # 4	OPEN	CLOSED
VALVE # 5	CLOSED	CLOSED
VALVE # 6	CLOSED	CLOSED
VALVE # 7	CLOSED	OPEN
VALVE # 8	CLOSED	CLOSED

DIAGRAM NOT TO SCALE



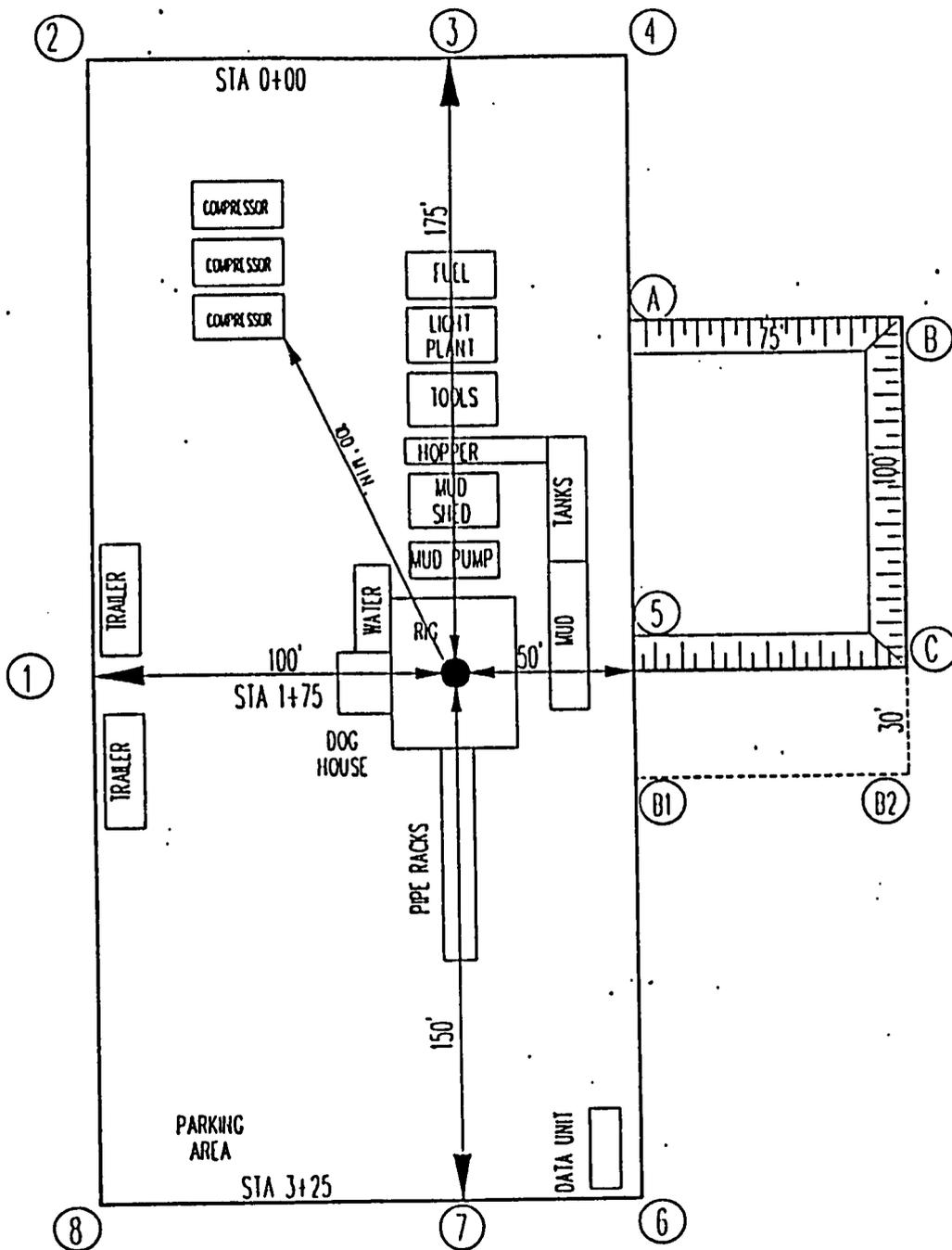
**EQUITABLE RESOURCES ENERGY COMPANY**  
**BALCRON OIL DIVISION**  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

UNION DRILLING RIG #17 Hex Kelly -



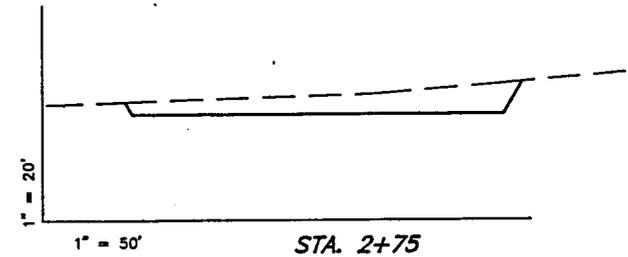
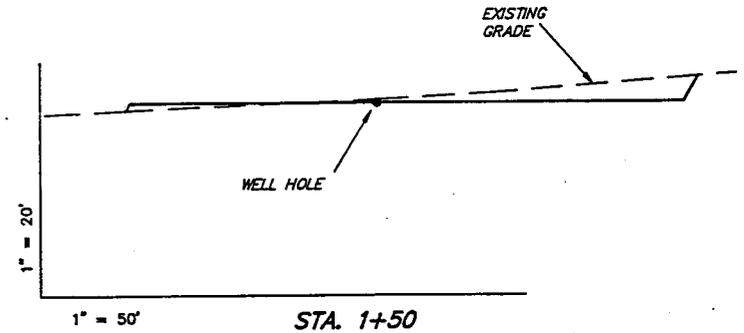
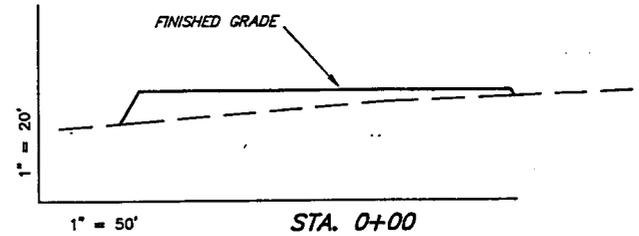
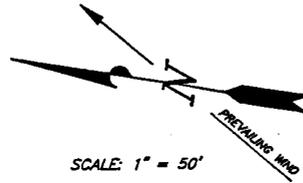
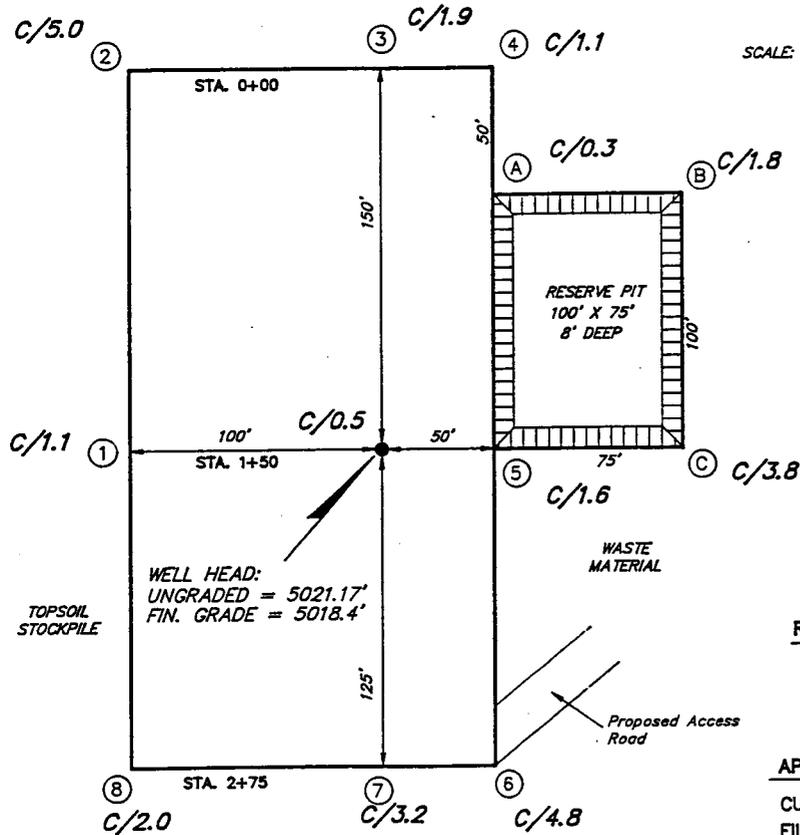
#3000 STACK

# EQUITABLE RESOURCES ENERGY CO. WELLSITE LAYOUT



**EQUITABLE RESOURCES ENERGY CO.**

**BALCRON MONUMENT FEDERAL #24-25  
SECTION 25, T8S, R17E, S.L.B.&M.**



**REFERENCE POINTS**

- 150' NORTH 5016.37'
- 200' NORTH 5015.83'
- 200' EAST 5015.33'
- 250' EAST 5013.27'

**APPROXIMATE YARDAGES**

- CUT = 1880 Cu. Yds.
- FILL = 1510 Cu. Yds.
- PIT = 1,940 Cu. Yds.
- 6" TOPSOIL = 900 Cu. Yds.

SURVEYED BY: G.S. R.H.

DRAWN BY: R.E.H.

DATE: 11-16-94

SCALE: 1" = 50'

FILE: 24-25

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

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED  
MAR - 2 1995  
CONFIDENTIAL

6. Lease Designation and Serial Number:  
Federal #U-67845

APPLICATION FOR PERMIT TO DRILL OR DEEPEN OIL, GAS & MINING

7. Indian, Allottee or Tribe Name:  
n/a

1A. Type of Work: DRILL  DEEPEN   
B. Type of Well: OIL  GAS  OTHER: SINGLE ZONE  MULTIPLE ZONE

7. Unit Agreement Name:  
n/a

8. Farm or Lease Name:  
Balcron Monument Federal

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

9. Well Number:  
#24-25

3. Address and Telephone Number:  
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Wildcat:  
Undesignated/Green River

4. Location of Well (Footages)  
At Surface: SE SW Section 25, T8S, R17E 653' FSL, 2028' FWL  
At Proposed Producing Zone:

11. Qtr/Qtr, Section, Township, Range, Meridian:  
SE SW 25, T8S, R17E

14. Distance in miles and direction from nearest town or post office:  
Approximately 10 miles southeast of Myton, Utah

12. County:  
Uintah

13. State: UTAH

15. Distance to nearest property or lease line (feet):

16. Number of acres in lease:

17. Number of acres assigned to this well:

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet):

19. Proposed Depth:  
6,250'

20. Rotary or cable tools:  
Rotary

21. Elevations (show whether DF, RT, GR, etc.):  
GL 5018.9'

22. Approximate date work will start:  
3/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

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

24. Name & Signature: Bobbie Schuman  
Bobbie Schuman

Regulatory and Environmental Specialist  
Title: Environmental Specialist Date: 2-28-95

(space for State use only)

API Number Assigned: 43-047-32669

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
Approval: [Signature]  
DATE: 3/1/95  
BY: [Signature]  
Petroleum Engineer

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/02/95

API NO. ASSIGNED: 43-047-32669

WELL NAME: BALCRON MONUMENT FED. 24-25  
 OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION: 17  
 SESW 25 - T08S - R10E  
 SURFACE: 0653-FSL-2028-FWL  
 BOTTOM: 0653-FSL-2028-FWL  
 UINTAH COUNTY  
 UNDESIGNATED FIELD (002)

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

LEASE TYPE: FED  
 LEASE NUMBER: U-67845

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal  State  Fee   
 (Number 6547198)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
 (Number PRIVATE WELL)  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

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

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

CONFIDENTIAL  
 PERIOD  
 EXPIRED  
 ON 8-20-96  
 per Oper. Request

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DUCHESSNE COUNTY

UINTAH COUNTY

T 9: S

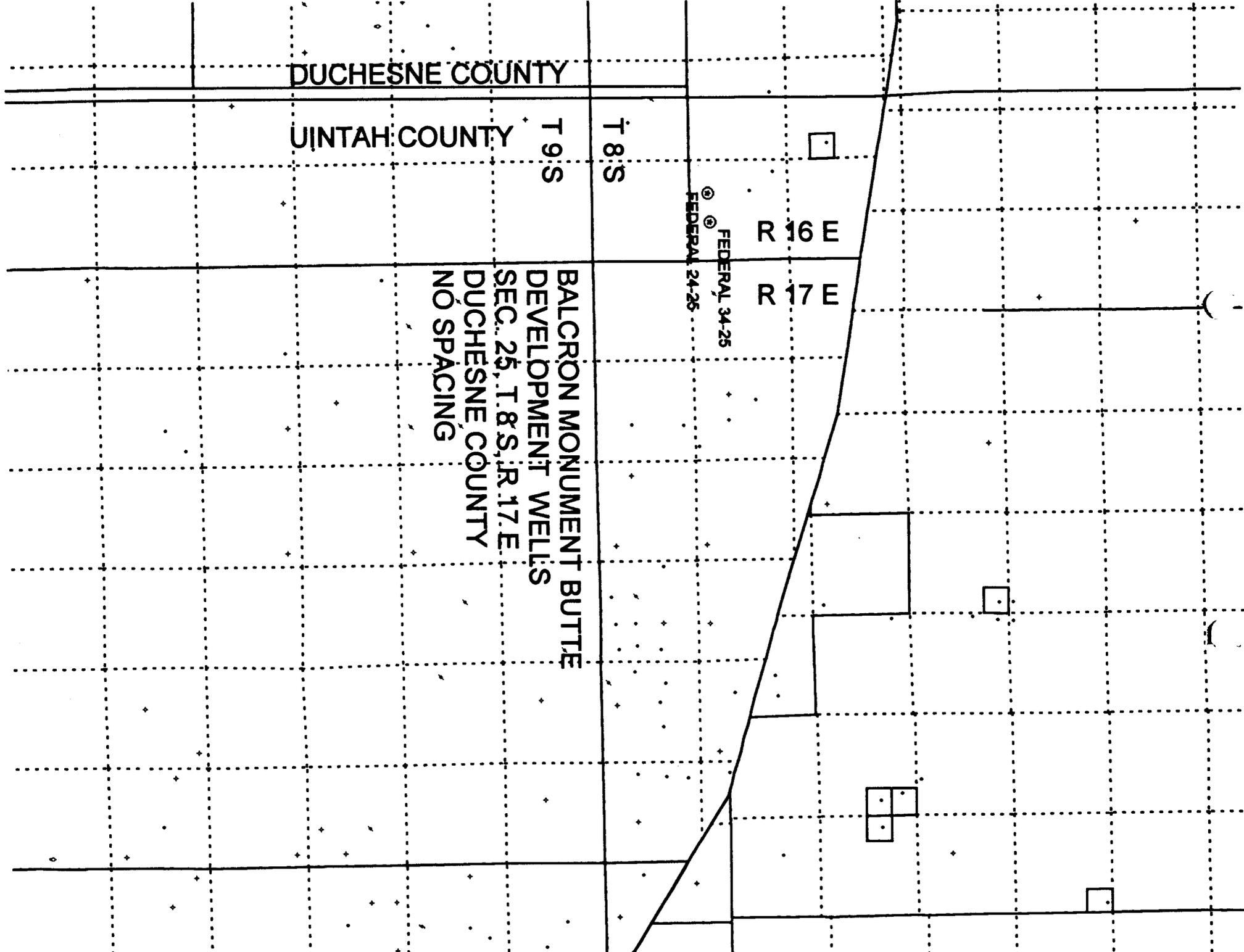
T 8: S

R 16 E

R 17 E

FEDERAL 34-25  
FEDERAL 24-25

BALCRON MONUMENT BUTTE  
DEVELOPMENT WELLS  
SEC. 25, T. 8: S, R. 17: E  
DUCHESSNE COUNTY  
NO SPACING



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

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

Well Name: BALCRON MONUMENT FED. 24-25 API Number: 43-047-32669

Section: 25 Township: 8S Range: 17E County: UINTAH Field: UNDESIGNATED

Well Status: POW Well Type: Oil: X Gas: \_\_\_\_\_

**PRODUCTION LEASE EQUIPMENT: (NUMBER)**

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

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

Heater Treater(s): 1

**PUMPS:**

Triplex: \_\_\_\_\_ Chemical: \_\_\_\_\_ Centrifugal: 1

**LIFT METHOD:**

Pumpjack: X Hydraulic: \_\_\_\_\_ Submersible: \_\_\_\_\_ Flowing: \_\_\_\_\_

**GAS EQUIPMENT: (NUMBER)**

Purchase Meter: 0 Sales Meter: 0

**TANKS:**

	NUMBER	SIZE	
Oil Storage Tank(s):	<u>2</u>	<u>400</u>	BBLs
Water Tank(s):	<u>1</u>	<u>100</u>	BBLs
Power Water Tank:	_____	_____	BBLs
Condensate Tank(s):	_____	_____	BBLs
Propane Tank:	<u>1</u>		

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

Qtr/Qtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_

**REMARKS: TANKS HAVE BURNERS. CASINGHEAD GAS GOES TO EMULSION LINE AND USED FOR FUEL GAS WITH PROPANE FOR BACKUP. EXCESS GAS WILL VENT.**

Inspector: DAVID W. HACKFORD Date: 1/2/96

↑  
North

Access

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



Wellhead



Gas Powered  
Pump Jack

Propane

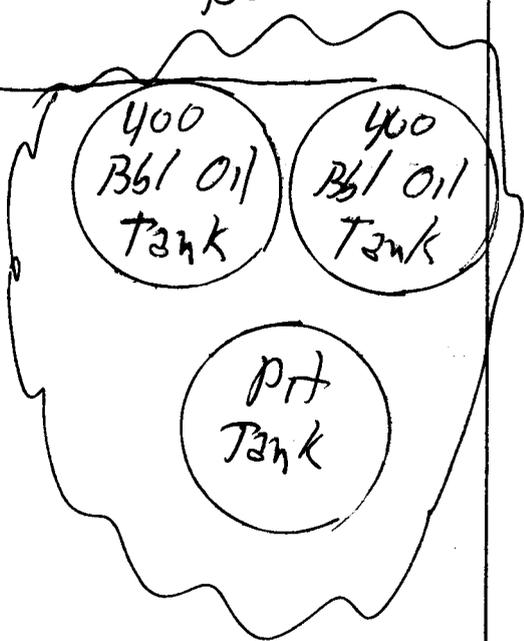
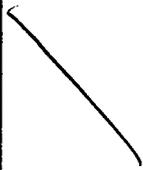
Hester  
Treater

Berm

400  
Bbl Oil  
Tank

400  
Bbl Oil  
Tank

Pit  
Tank





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

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

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

June 1, 1995

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

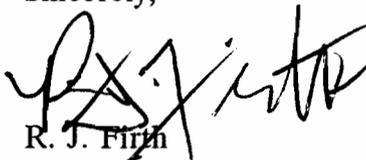
Re: Balcron Monument Federal #24-25 Well, 653' FSL, 2028' FWL, SE SW, Sec. 25,  
T. 8 S., R. 17 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32669.

Sincerely,



R. J. Firth  
Associate Director

ldc

Enclosures

cc: Uintah County Assessor

Bureau of Land Management, Vernal District Office

WAPD



**Operator:** Equitable Resources Energy Company

**Well Name & Number:** Balcron Monument Federal #24-25

**API Number:** 43-047-32669

**Lease:** U-67845

**Location:** SE SW Sec. 25 T. 8 S. R. 17 E.

### Conditions of Approval

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

**2. Notification Requirements**

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

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

**3. Reporting Requirements**

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.  
U-67845

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

7. UNIT AGREEMENT NAME  
n/a

8. FARM OR LEASE NAME  
Balcron Monument Federal

9. WELL NO.  
#24-25

10. FIELD AND POOL, OR WILDCAT  
Undesignated/Green River

11. SEC., T., E., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 25, T8S, R17E

12. COUNTY OR PARISH  
Uintah

13. STATE  
UTAH

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 SE SW Section 25, T8S, R17E      653' FSL, 2028' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 10 miles southeast 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  
 6,250'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 GL 5018.9'

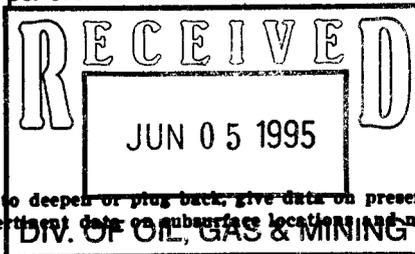
22. APPROX. DATE WORK WILL START\*  
 3/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

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



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

24. SIGNED Robbie Schuman TITLE Regulatory and Environmental Specialist DATE February 28, 1995  
 (This space for Federal or State office use)

**NOTICE OF APPROVAL**

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

APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINING DATE JUN 01 1995

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

Ut080-5m-129

\*See Instructions On Reverse Side

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

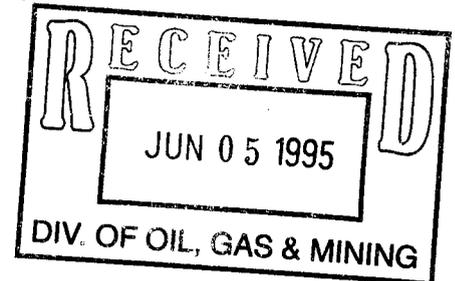
Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Federal 24-25

API Number: 43-047-32669

Lease Number: U-67845

Location: SESW Sec. 25 T. 8S R. 17E



**NOTIFICATION REQUIREMENTS**

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

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

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

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

### A. DRILLING PROGRAM

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

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

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

#### 2. Pressure Control Equipment

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

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

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

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

3. Casing Program and Auxiliary Equipment

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

The surface casing will need to be cemented with neat cement.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the Usable Water zone identified at  $\pm 233$  ft. or by extending the surface casing to  $\pm 283$  ft. and having a cement top for the production casing at least 200 ft. above the top of the Mahogany Oil Shale zone identified at  $\pm 2349$  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.

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  $\pm 2149$  ft. if the surface casing is set at  $\pm 283$  ft. or to surface if the surface casing is set at  $\pm 260$  ft.. The CBL shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

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

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

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

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

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

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

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

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

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

Ed Forsman            (801) 789-7077  
Petroleum Engineer

BLM FAX Machine      (801) 781-4410

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

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

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

**SURFACE USE PROGRAM**  
Conditions of Approval (COAs)  
Equitable Resources Energy Co. - Well #24-25

Plans For Reclamation Of Location

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

Other Information

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

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

To reduce soil erosion due to the development of this location and access road a silt catchment basin shall be constructed. The basin will be constructed southwest of the proposed location where flagged. This basin collects run off from approximately eight acres of watershed. The capacity of the structure shall be approximately one acre foot. Minimum standards for dams impounding under 10 acre feet are attached.

10-2-95

**CONFIDENTIAL**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EQUITABLE RESOURCES

Well Name: BALCRON MONUMENT FEDERAL 24-25

Api No. 43-047-32669

Section 25 Township 8S Range 17E County UINTAH

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 9/24/95

Time \_\_\_\_\_

How ROTARY

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

Reported by D. HACKFORD-DOGM

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

Date: 9/24/95 Signed: JLT

OPERATOR Equitable Resources Energy Company  
Balcon Oil Division  
ADDRESS 1601 Lewis Avenue  
Billings, MT 59102  
(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	11825	43-047-32669	Balcon Monument Fed. #24-25	SE SW	25	8S	17E	Uintah	9-24-95	9-24-95
WELL 1 COMMENTS: <i>Entity added 9-29-95. Lee</i>											
Spud of a new well.											
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.

**RECEIVED**  
SEP 29 1995  
DIV. OF OIL, GAS & MINING

*Molly Conrad*  
Signature  
Operations Secretary 9-27-95  
Title Date  
Phone No. (406) 259-7860



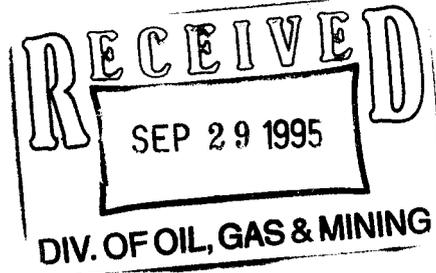
**EQUITABLE RESOURCES**  
**ENERGY COMPANY**

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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

**September 27, 1995**



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

**Gentlemen:**

**RE: Balcron Monument Federal #24-25  
SE SW Section 25, T8S, R17E  
Uintah County, Utah**

**This letter is notice that the subject well was spud on 9-24-95 at  
9:00 p.m.**

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

**Sincerely,**

**Molly Conrad  
Operations Secretary**

**/mc**

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

**RECEIVED**  
 OCT 30 1995  
 DIV. OF OIL, GAS & MINING

FORM APPROVED  
 Budget Bureau No. 1004-0135  
 Expires: March 31, 1993  
 5. Lease Designation and Serial No.  
U-67845  
 6. If Indian, Allottee or Tribe Name

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SURFACE: SE SW Section 25, T8S, R17E  
 TD: 653' FSL & 2028' FWL

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

8. Well Name and No.  
Balcron Monument Fed. #24-25

9. API Well No.  
43-047-32669

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

11. County or Parish, State  
Utah County, Utah

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

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

First production on this well was on 10-26-95 at 2:00 p.m.

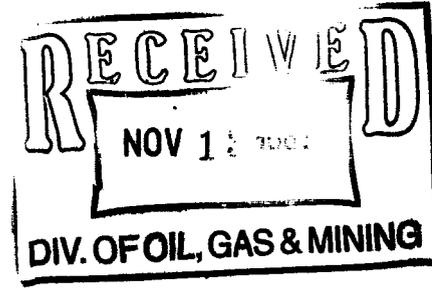
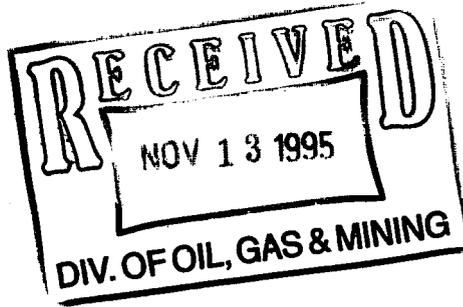
14. I hereby certify that the foregoing is true and correct

Signed Molly Conrad Title Operations Secretary Date 10-27-95  
(This space for Federal or State office use)

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

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

**\*See instruction on Reverse Side**



## WELL REPORT

43-047-32669  
PAR DRAW  
Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah

# CONFIDENTIAL

By

**DENNIS REHRIG & ASSOCIATES, INC.**

Oil & Gas Consulting

4924 Rimrock Road  
Billings, Montana 59106

(406) 656-4785

**MISPLACED**

**WELLSITE GEOLOGIST'S REPORT**

**PAR DRAW  
Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

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

Oil & Gas Consulting

4924 Rimrock Road  
Billings, Montana 59106

(406) 656-4785

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

Oil & Gas Exploration

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

---

**PAR DRAW  
Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**TABLE OF CONTENTS**

<u>Page</u>	<u>Item</u>
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2	Well Data
5	Daily Drilling History
7	Surveys
8	Bit Record
9	Time/Depth Penetration Chart
10	Drilled Well Formation Tops
11	Reference Well Formation Tops
12	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 Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**GENERAL REVIEW**

The Balcron Monument Federal 24-25 (SE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 25, T8S-R17E, Uintah County, Utah) was drilled as a field extension development well in the Par Draw Field.

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

The surface hole was air drilled and surface casing was set by Union Drilling Co. Rig No. 17. This well was spudded on September 24, 1995. A two-man mud logging unit and wellsite geologist were on site from 1650' to total depth. The Green River and Douglas Creek formations were penetrated at 1703' and 4942' making them respectively 37' high and 54' high structurally to the 1/4 mile offset Balcron Monument Federal 23-25 (NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 25, T8S-R17E) control well.

This well was drilled to 6250' Driller & 6247' Logger.

Subsequent to log review the operator elected to run 5 $\frac{1}{2}$ " production casing to 6217' K.B.

The rotary was released 10/4/95.

Respectfully submitted,

  
DENNIS C. REHRIG

**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**WELL DATA**

<b><u>OPERATOR:</u></b>	Balcron Oil
<b><u>LEASE &amp; WELL NO.:</u></b>	Federal 24-25
<b><u>LOCATION:</u></b>	653' FSL, 2028' FWL, Sec. 25, T8S-R17E
<b><u>PROSPECT/FIELD:</u></b>	Par Draw Field
<b><u>COUNTY:</u></b>	Uintah
<b><u>STATE:</u></b>	Utah
<b><u>BASIN:</u></b>	Uintah
<b><u>WELL TYPE:</u></b>	Development - Field Extension
<b><u>BASIS FOR PROSPECT:</u></b>	Subsurface well control
<b><u>ELEVATIONS:</u></b>	G.L. 5018' (Graded), K.B. 5028'
<b><u>SPUD DATE:</u></b>	7:30 p.m. (MDT) 9/24/95 ((Rotary)
<b><u>OUT FROM UNDER SURFACE CASING:</u></b>	8:30 p.m. (MDT) 9/25/95
<b><u>DRILLING COMPLETED:</u></b>	8:15 p.m. (MDT) 10/2/95
<b><u>LOGGING COMPLETED:</u></b>	6:45 a.m. (MDT) 10/3/95
<b><u>RIG RELEASE:</u></b>	1:35 a.m. (MDT) 10/4/95
<b><u>TOTAL DAYS SPUD THROUGH LOGGING:</u></b>	9 days
<b><u>TOTAL DEPTH:</u></b>	6,250' (Driller) 6,247' (Logger)



**LOST CIRCULATION ZONE  
OR DRILLING PROBLEMS:**

None encountered.

**WELLSITE GEOLOGIST:**

Dennis C. Rehrig

**SAMPLING PROGRAM:**

50' Samples from 1,650'-4,200'.  
30' Samples from 4,200'-Total Depth.  
Except when got drilling break or gas show caught  
extra sample(s).

**SAMPLE QUALITY:**

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

**SAMPLE DISPOSITION:**

Utah Geological Survey - Salt Lake City, Utah

**MUD LOGGING EQUIPMENT:**

Northwest Mudlogging Service - two-man unit  
operated by Larry Vodall and Ray Schmoltdt.

**CORE PROGRAM:**

None

**DRILLSTEM TEST:**

None.

**SURFACE CASING:**

8-5/8" - Surface to 301' K.B. 7 Jts, CFI  
24 wt., J-55. Surface hole drilled and casing set by  
rotary rig. Cement w/BJ, used 190 sxs Class "G"  
w/2% CaCl + 1/4 lbs/sx Cello Seal.

**PRODUCTION CASING:**

Ran new 5 1/2" casing to 6217' K.B.,  
142 jts, 15.5 wt., J-55.  
Cemented w/191 sxs lead and 445 sxs tail cement with  
various additives in all cement. Plug down at  
9:35 p.m. 10/3/95.

**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**DAILY DRILLING HISTORY**

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

Days Since Spud	1995 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
1	9/25	171'	171'	7.25	0	16.75	1&2	15 (All)	10/20	200	Rig up drill & set 20' conductor pipe, center conductor pipe and drill Kelly down, RU & drill rathole, NU on conductor, PU collars, chain cellar, change bit and ream out fill, drilling 12¼" hole, try to center conductor pipe, drilling.
2	9/26	828'	657'	12.75	0	11.25	2&3	40	55/60	150	Drilling, circ hold, TOH, run 8½" casing and cement, WOC, back off landing jt and screen on wellhead, NU BOP, test BOP, upper Kelly, floor valve, blind and pipe rams, choke manifold to 2000# (OK), casing to 1500# (OK), TIH w/DC's, drilling cement, plug, baffle and shoe, drilling 7½" hole, change to DP, change saver-sub and 1 rotating head, survey, drilling.
3	9/27	2300'	1472'	22.75	0	1.25	3	40	55/60	220/250	Drilling, survey, service rig (S/R), check rams, drilling, survey, drilling, circ hole & service rig, survey, drilling.
4	9/28	3465'	1165'	23.00	0.50	0.50	3	40	55/60	240	Drilling, survey, S/R, check rams, drilling, survey, drilling.

Days Since Spud	1995 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
5	9/29	4200'	735'	16.50	0.50	7.00	3&4	40	55/60	250	Drilling, survey, S/R, check rams, drilling, S/R, drilling, circ on air, break off and load hole, drop survey, TOH, change bit, TIH, break circulation.
6	9/30	4804'	604'	23.25	0.50	0.25	4	40	60	1025	Drilling, S/R and pumps, check rams, drilling, S/R and pumps, survey, drilling.
7	10/1	5363'	559'	22.75	1.00	0.25	4	40	60	1075	Drilling, S/R, check rams, drilling, S/R and pumps, drilling, S/R, survey, drilling.
8	10/2	5884'	521'	20.5	1.00	2.50	4	40	60	1100	Drilling, WO brakes, S/R - check rams, WO pump, drilling, S/R and pumps, drilling, survey, S/R and pumps, drilling.
9	10/3	6250'	366'	14.25	0	9.75	4	40	60/65	1100	Drilling, circ and pump pill, drop survey, TOH for E-logs, drop flowline, RU loggers and log.
10	10/4	6250'	0	0	0	7.58	-	-	-	-	Log, rig down loggers, TIH w/bit, TOH LD DP & DC, RU and run casing, RU cementers and cement, WOC, release rig.

**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**SURVEYS VERTICAL HOLE**

<u>Drilling Depth</u>	<u>Degrees</u>
500'	$\frac{3}{4}^{\circ}$
1000'	$\frac{3}{4}^{\circ}$
1515'	$1\frac{3}{4}^{\circ}$
2025'	$1^{\circ}$
2525'	$1^{\circ}$
2968'	$1\frac{1}{4}^{\circ}$
3500'	$1\frac{1}{2}^{\circ}$
4200'	$2\frac{3}{4}^{\circ}$
4700'	$2\frac{1}{4}^{\circ}$
5200'	$1\frac{1}{4}^{\circ}$
5700'	$1\frac{1}{2}^{\circ}$
6250'	$2\frac{1}{4}^{\circ}$

**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**BIT RECORD**

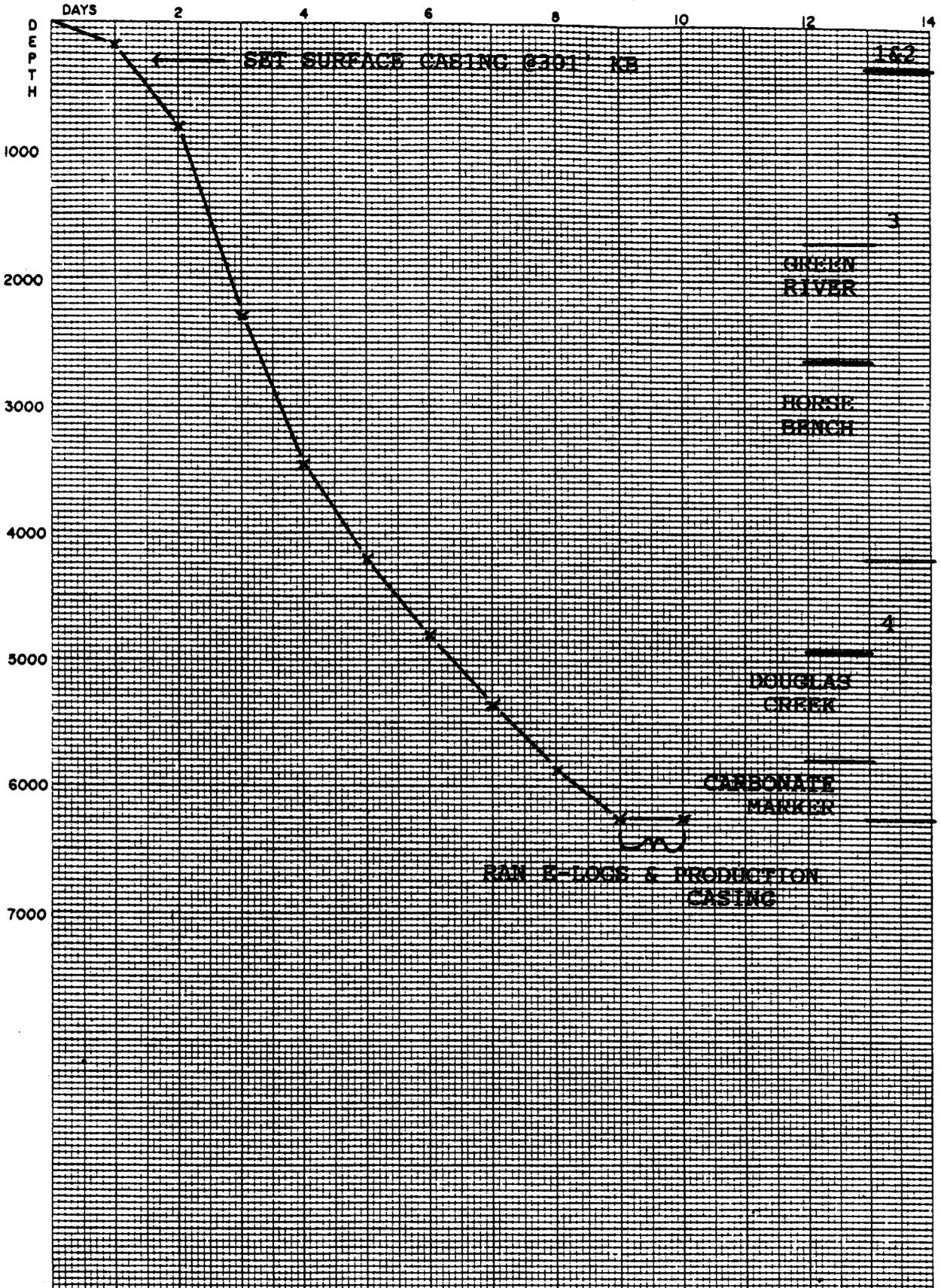
<b>Contractor:</b> Union Drilling Co.	<b>Rig No. 17</b>	<b>Rig Make:</b> Cabot-Franks	<b>Collars: ODxDxLength BHA</b>  6" x 2½" x 524' (17 jts)	<b>SPUD</b> 9/24/95	<b>Toolpusher:</b> Dave Gray <b>Day Driller:</b> Wm. Satterfield <b>Evening Driller:</b> Garth Partridge <b>Morning Driller:</b> Greg Ferguson <b>Relief Driller:</b> Rod Rasmussen <b>Operators Representative</b> Al Plunkett  <b>Mud Type:</b> Air/Foam 0' to 4200' KCl/Water 4200' to TD
<b>Operator:</b> Balcron Oil	<b>Field:</b> Par Draw	<b>Derrick:</b> Cabot-Franks, 97' mast	<b>Drill Pipe-Size Wt</b> 4½" 16.6 E	<b>Under Surface</b> 9/25/95	
<b>Lease: Federal</b>	<b>Well No.</b> 24-25	<b>Pump #1:</b> Gardner-Denver FXN Liner 5½" x 14" Stroke	<b>Tool Joint: 6¼"</b>	<b>Total Depth</b> 10/2/95	
<b>State: Utah</b> <b>County: Uintah</b> <b>Sec/T-ship/Range:</b> SESW Sec. 25, T8S-R17E				<b>Total Days Drilling</b> 9	

8

Bit No	Bit Size	Bit Type	Bit Mfg.	Serial No. of Bit	Jet Size	Depth Out	Footage	Hours Run	Acc Hrs	Ft/ Hr	Weight 1000#	Rotary RPM	Vert Dev	Air or Pump Press	% of bit life used	Remarks
1	17¼	Hut	FB	42956	-Open-	27	17	1.0	12	17	All	20		130	55%	WRR
2	12¼	IR	FB	2087028	-Open-	325	305'	4.75	23.75	64	10/15	20/25	¾°	130/200	60%	WRR
3	7¾	SEC	S88CF	663626	24 24 24	4201	3876'	74	74	52	40	50/60	2¾°	130/250	All	Junk
4	7¾	New Tech	NT-4	08240	13 13 13	6250	2049'	71	71	28.9	40	60/65	2¼°	110/150	All	Junk

BALCRON MONUMENT FEDERAL 24-25  
 653' FSL, 2028' FWL, SECTION 25, T8S-R17E  
 UTAH COUNTY, UTAH

TIME / DEPTH PENETRATION CURVE



**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

**FORMATION TOPS**

ELEVATIONS: G.L. 5018' (Graded) K.B. 5028'

<u>Formation</u>	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Well *</u>
Green River	1703'	(+3325')	37' Hi
Horsebench Sand	2640'	(+2388')	36' Hi
2nd Garden Gulch	4172'	(+ 856')	42' Hi
Yellow Marker	4774'	(+ 254')	48' Hi
Douglas Creek	4942'	(+ 86')	54' Hi
2nd Douglas Creek Mkr	5215'	(- 187')	41' Hi
Green Marker	5414'	(- 386')	36' Hi
Carbonate Marker	5792'	(- 764')	18' Hi
Uteland Butte LS	6196'	(-1168')	-
<b>TOTAL DEPTH</b>	<b>6247' Logger</b>		

\* Reference Well:

Balcron Monument Federal 23-25  
NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>, Sec. 25, T8S, R17E  
Uintah County, Utah

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

**Balcron Monument Federal 24-25  
653' FSL, 2028' FWL, Sec. 25, T8S-R17E  
Uintah County, Utah**

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

**Balcron Monument Federal 23-25  
NE¼SW¼, Sec. 25, T8S, R17E  
Uintah County, Utah**

K.B. 5002'

**Formation**

Green River	1714'	(+3288')
Horsebench	2650'	(+2352')
2nd Garden Gulch	4188'	(+ 814')
Yellow Marker	4796'	(+ 206')
Douglas Creek	4970'	(+ 32')
2nd Douglas Creek Mkr	5230'	(- 228')
Green Marker	5424'	(- 422')
Carbonate Marker	5784'	(- 782')
Uteland Butte LS	NDE	
TOTAL DEPTH	6192' (Logger)	

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

**Balcron Monument Federal 24-25**  
**653' FSL, 2028' FWL, Sec. 25, T8S-R17E**  
**Uintah County, Utah**

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

<u>Formation</u>	<u>Sample Depth</u>	<u>Time (Before-During-After) Min/Ft</u>	<u>Total Gas (Before-During-After)</u>	<u>Remarks</u>
Horsebench	4130'-4200'	0.8 - 2.2 - 3.0	10 - 220 - 180	Oil coming over shaker
2nd Garden Gulch	4532'-4542'	2.0 - 1.4 - 2.4	20 - 240 - 80	Oil on pit
2nd Garden Gulch	4734'-4752'	2.6 - 1.6 - 2.2	140 - 220 - 100	
Yellow Marker	4820'-4822'	2.2 - 1.0 - 2.0	160 - 300 - 95	
Yellow Marker	4912'-4924'	1.8 - 1.2 - 2.0	100 - 280 - 160	
Douglas Creek	5018'-5040'	2.5 - 1.5 - 2.0	160 - 270 - 160	
Douglas Creek	5140'-5150'	2.0 - 1.4 - 2.5	180 - 700 - 200	
Carbonate Marker	5866'-5870'	3.0 - 2.0 - 3.2	240 - 400 - 240	

**POTENTIAL SANDSTONE ZONES**

Provided by Wellsite Geologist

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

4158'-4165'	Had considerable quantity of oil coming over shaker and on pit. On pit and in samples.
*4527'-4536'	
4696'-4704'	
4706'-4711'	
4726'-4743'	
4810'-4814'	No sample show
4912'-4924'	No sample show and marginal porosity
*5006'-5013'	
*5137'-5156'	Didn't drill off well, looks somewhat shaly
5454'-5458'	
5852'-5860'	

\* = Best visual shows in cuttings.

**Balcron Monument Federal 24-25**  
**653' FSL, 2028' FWL, Sec. 25, T8S-R17E**  
**Uintah County, Utah**

**SAMPLE DESCRIPTIONS**

By: Dennis C. Rehrig

Samples caught by Mud Loggers. Samples were examined wet, under reflected light and 3X magnification from 1650' to total depth, for porosity identification samples were dried. Sample descriptions tie moderately well to drill time log and should be adjusted 7-14' upward to tie to the E-logs below 4200'. Sample quality appears generally fair-good. All sample descriptions are interpretive. NOTE: Many shales fluorescence and yield a cut in this section, also much rock becomes contaminated while air drilling, thus generally only shows which are felt to be significant to production from sandstone reservoirs are reported.

- 1650-1700      Shale - light gray-cream, occasionally brownish gray, silty in part, slightly-moderately calcareous, slightly carbonaceous in part, moderately firm, trace Pyrite.
- Siltstone - ranging to very fine grained Sandstone, occasionally fine-medium grained white-clear, commonly milky, argillaceous in part, generally moderately well sorted, angular to sub-angular, generally tight to poor intergranular porosity, NSFOC.
- 1700-50        Shale - medium-dark gray to medium brown-brownish gray, sub-angular to sub-blocky, moderately firm, slightly-moderately calcareous, slightly carbonaceous.
- Dolomite to Limy Dolomite - tan-buff occasionally brown, microcrystalline, firm-moderately firm, slightly carbonaceous in part, dense.
- 1750-1800     Dolomite to Limy Dolomite - as above, commonly pyritic.
- Some Shale - as above, commonly pyritic.
- 1800-50        Dolomite to Limy Dolomite - tan-mahogany occasionally buff-amber, microcrystalline, moderately firm-firm, dense.
- Some Shale - as above.
- 1850-1900     Limy Dolomite-Dolomite as 1750-1800 above, slightly more carbonaceous.

- 1900-50 Argillaceous Dolomite-Limy Dolomite - grayish tan-mahogany, micro-crystalline, moderately firm-moderately soft, abundant Pyrite - dense, frequently crystalline Calcite - milky, firm, generally pure.
- 1950-2000 Argillaceous Dolomite-Limy Dolomite, generally as above, slightly orange in part.
- 2000-2150 Argillaceous Dolomite-Dolomite occasionally Limy Dolomite - mahogany-tan-brown, microcrystalline, moderately firm-firm, dense, slightly-moderately carbonaceous in part, trace Pyrite, abundant crystalline clear-milky-amber Calcite, frequently with Pyrite, often in contact with Argillaceous Dolomite-Dolomite, firm.
- 2150-2250 Limy Dolomite-Argillaceous Dolomite - tannish gray - light brown-orangish brown, generally microcrystalline, moderately firm-firm, abundant Pyrite, dense.
- 2250-2300 Limy Dolomite-Argillaceous Dolomite - slightly orangish tan to tan-grayish cream, microcrystalline-cryptocrystalline, moderately firm, dense, slightly carbonaceous in part, commonly pyritic, frequently crystalline Calcite, milky-clear.
- 2300-50 Dolomite-Argillaceous Dolomite - mahogany-brown occasionally tan, microcrystalline, moderately firm, slightly carbonaceous in part, dense, frequently pyritic.
- 2350-2400 Argillaceous Dolomite-Dolomite - grayish tan - medium to dark brown - occasionally dark mahogany, microcrystalline-cryptocrystalline, moderately firm, slightly-moderately carbonaceous, dense, frequently pyritic.
- 2400-50 Argillaceous Dolomite-Limy Dolomite - medium-dark brown to grayish brown-occasionally mahogany-tan, microcrystalline, moderately firm, slightly-moderately carbonaceous in part, frequently crystalline Calcite milky-clear.
- 2450-2500 Argillaceous Dolomite-Limy Dolomite generally as above - medium-dark brown to grayish brown, slightly pyritic, crystalline-spar Calcite, milky-clear-amber.
- 2500-2600 Argillaceous Dolomite-Limy Dolomite as above.
- Some Shale - medium-dark gray to brownish gray, moderately soft-moderately firm, moderately calcareous, slightly-moderately carbonaceous, sub-blocky in part.

- 2600-50 Argillaceous Dolomite - medium brown to grayish brown, commonly pyritic, cryptocrystalline-occasionally microcrystalline, moderately firm, frequently crystalline Calcite - milky-amber-white, occasionally siliceous.
- 2650-2700 Shale - light gray - light grayish tan, moderately calcareous, very slightly carbonaceous in part, silty in part, occasionally pyritic and siliceous.
- 2700-50 Limestone-Dolomite limestone - cream-very light tan, cryptocrystalline-occasionally microcrystalline, moderately firm-firm, dense, generally no impurities.
- 2750-2800 Limestone-Dolomite Limestone as above.
- Argillaceous Dolomite-Limy Dolomite - medium-dark brown, occasionally dark grayish brown-mahogany, cryptocrystalline, moderately firm, dense, slightly-moderately carbonaceous in part, some crystalline Calcite.
- 2800-2900 Limy Dolomite-Argillaceous Dolomite - tan to medium-dark brown, frequently dark grayish brown occasionally mahogany, cryptocrystalline, moderately soft-moderately firm, dense, slightly-moderately carbonaceous in part commonly crystalline Calcite, frequently pyritic.
- 2900-50 Argillaceous Dolomite-occasionally Limy Dolomite - tan-medium to dark brown, occasionally dark grayish brown, cryptocrystalline, moderately firm-moderately soft, dense, slightly-moderately carbonaceous, occasionally algal laminae, occasionally pyritic.
- 2950-3000 Argillaceous Dolomite - frequently Limy Dolomite - as above, commonly mahogany.
- 3000-3150 Argillaceous Dolomite - occasionally Limy Dolomite - as 2900-50 above.
- 3150-3200 Shale - tan-medium to dark brown all with slightly mahogany to orangish tinge, frequently dark gray to slightly black, moderately firm, frequently slightly fissile to sub-platy, frequently moderately-highly carbonaceous, slightly calcareous.
- 3200-50 Shale, some as above - mostly light-medium gray to buff-tan, moderately firm-moderately soft, moderately-highly calcareous, slightly carbonaceous in part, frequently silty, occasionally Glauconite.
- Some Siltstone - ranging to very fine-fine grained Sandstone, milky-white occasionally light gray, frequently glauconitic and dark brown-black lithic particles, moderately calcareous, argillaceous in part, moderately-poorly sorted, sub-angular, no apparent porosity, NSFOC.

- 3250-3300 Sandstone - very fine grained frequently ranging to Siltstone, slightly tan-milky-clear, slightly-moderately calcareous, slightly argillaceous, sub-angular, moderately-poorly sorted, frequently specks of carbonaceous material, commonly glauconitic and with lithic particles. Poor intergranular porosity, possibly very slightly stained in part, no fluorescence, very weak dull yellow cut in part.
- Some Shale - medium-dark gray with slightly drab olive tinge in part, moderately firm, sub-blocky, slightly calcareous, very slightly carbonaceous.
- 3300-50 Shale - light gray-light tan-light brown, moderately firm-firm, slightly calcareous, very slightly carbonaceous in part, abundant Pyrite - silty in part, sub-blocky.
- 3350-3400 Shale - medium-dark brown frequently slightly orange-mahogany tinge, commonly dark gray-slightly black, moderately soft to moderately firm, sub-fissile to sub-platy, some algal laminae, slightly-moderately calcareous, slightly-highly carbonaceous, occasionally pyritic.
- 3400-50 Limy Dolomite-Argillaceous Dolomite - as above.
- Shale - cream-light gray-buff in part, moderately firm, slightly calcareous, silty in part.
- Some very fine-fine grained Sandstone ranging to Siltstone - milky-clear, some loose grains, sub-angular to round, moderately sorted, slightly calcareous in part, slightly argillaceous in part, NSFOC.
- Trace Limestone - buff-light tan, microcrystalline-cryptocrystalline, moderately firm, commonly cream-buff pellets?, dense.
- 3450-3500 Limestone-Argillaceous Limestone - buff, microcrystalline-cryptocrystalline, moderately soft-moderately firm, dense, trace pellets.
- Shale - light gray-cream, slightly-moderately calcareous, slightly carbonaceous in part, sub-blocky, silty in part, trace Pyrite.
- Some Siltstone - milky-clear, argillaceous in part, slightly-moderately calcareous, some specks of carbonaceous material, some Pyrite.
- 3500-50 Shale - as above.
- Siltstone - as above.

Some Sandstone - very fine grained, milky-clear, moderately well sorted, argillaceous in part, slightly calcareous, some poor-fair intergranular porosity, very faint tan stain in part. no fluorescence. very weak dull yellow milky-spotty streaming cut in part. Sub-angular to sub-round, occasionally speck dark brown carbonaceous material.

3550-3600 Argillaceous Dolomite - medium brown to grayish brown, frequently tan cryptocrystalline, moderately firm-firm, slightly-moderately carbonaceous, dense, trace Pyrite.

3600-50 Argillaceous Dolomite-Limy Dolomite - medium brown-grayish brown-tan, frequently dark grayish brown, cryptocrystalline, moderately firm-occasionally soft, frequently moderately-highly carbonaceous, dense, frequently pyritic.

3650-3700 Limy Dolomite-Argillaceous Dolomite - tan-buff, frequently slightly orange tinge, cryptocrystalline, moderately firm-firm, dense.

Shale - light gray-cream, moderately firm, frequently specks of carbonaceous material, frequently silty, slightly-moderately calcareous, sub-blocky in part.

Some Siltstone - milky-white, frequently argillaceous, poorly sorted, hard-firm, slightly calcareous, frequently specks carbonaceous material, frequently pyritic, NSFOC.

3700-50 Dolomite Limestone-Limestone - tan-buff, occasionally grayish tan, cryptocrystalline-occasionally microcrystalline, frequently pellets, some spar Calcite, firm-moderately firm, slightly argillaceous in part, dense, occasionally pyritic.

Shale - light to medium gray, grayish brown, occasionally medium-dark brown, blocky to sub-blocky, moderately firm, slightly-moderately carbonaceous, slightly-moderately calcareous, frequently pyritic.

Some Siltstone as 3650-3700 above.

3750-3800 Shale - light-medium gray occasionally grayish brown to medium brown, moderately firm, slightly calcareous, slightly carbonaceous in part, abundant microcrystalline disseminated Pyrite.

Limestone-Argillaceous Limestone - buff-cream, cryptocrystalline-microcrystalline, moderately soft, abundant pellets, dense, slightly carbonaceous in part.

- 3800-50 Shale - cream, light-medium gray, slightly emerald in part, silty in part, slightly calcareous, moderately firm, frequently pyritic.
- Limestone-Argillaceous Limestone - as above.
- Some Siltstone - milky-clear, slightly argillaceous in part, slightly calcareous, moderately well sorted, sub-angular, NSFOC.
- 3850-3900 Shale - generally light gray occasionally medium gray-cream, moderately soft-moderately firm, slightly-moderately calcareous, silty in part, slightly carbonaceous, frequently pyritic, sub-blocky in part.
- Siltstone - milky-occasionally clear, frequently argillaceous, poorly sorted, sub-angular, frequently specks of carbonaceous material and Pyrite, NSFOC, slightly-moderately calcareous.
- 3900-50 Shale generally as above - some grayish brown-medium brown, moderately carbonaceous.
- 3950-4000 Shale - as above and 50% medium to dark brown-dark grayish brown, slightly-moderately calcareous, moderately-highly carbonaceous, sub-fissile in part, some Pyrite.
- Some Argillaceous Dolomite - medium brown-tan, cryptocrystalline, moderately firm, dense, slightly carbonaceous, dense, trace Pyrite.
- 4000-50 Limy Dolomite-Argillaceous Dolomite - tan-light brown, cryptocrystalline, moderately soft-moderately firm, slightly carbonaceous in part, dense.
- Some Shale - medium gray-grayish brown, slightly calcareous, sub-blocky, moderately carbonaceous.
- 4050-4100 Shale - as above.
- Dolomitic Limestone - buff-light tan, cryptocrystalline, moderately soft-moderately firm, slightly argillaceous, dense.
- 4100-50 Shale - slightly emerald tinge, light-medium gray, occasionally cream, moderately soft, slightly-moderately calcareous, sub-blocky in part, occasionally speck carbonaceous material.
- Sandstone - very fine grained ranging to Siltstone, milky-clear, moderately well sorted, moderately well consolidated, sub-angular to sub-round, slightly argillaceous in part, slightly calcareous, no apparent porosity, NSFOC.

4150-4200

Sandstone - very fine grained occasionally fine grained, some Siltstone, clear-milky, moderately well sorted, moderately unconsolidated-friable in part, some argillaceous material, slightly calcareous in part, due to loose grains probably fair-good intergranular porosity, no stain, very weak dull yellow fluorescence in part, trace very weak dull gold-dull yellow glow-slow ooze cut.

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

TOH @ 4200' to switch to fluid and change bit.

4200-30

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

Limestone-Argillaceous Limestone - tan-occasionally buff, cryptocrystalline, moderately soft, dense, trace pellets.

Argillaceous Dolomite-Dolomite - medium dark brown with frequently mahogany tinge, cryptocrystalline-microcrystalline, firm-moderately firm, slightly carbonaceous, dense.

4230-60

Shale - as above.

Limestone-Argillaceous Limestone - as above.

Argillaceous Dolomite-Dolomite - as above.

Some Sandstone - very fine grained, clear-milky-occasionally light brown, moderately to well sorted, sub-angular to sub-round, slightly calcareous, slightly argillaceous in part, some fair-good intergranular porosity, trace good even brown oil stain and some oil droplets on grain contacts, dull gold fluorescence, fair burst-moderately streaming bright yellow cut. Believe this Sandstone is cavings from 2nd Garden Gulch.

Sample highly mixed and probably much cavings.

4260-90

Shale - medium gray, frequently cream, slightly emerald, soft-moderately soft, slightly-moderately calcareous, slightly carbonaceous in part, sub-blocky.

Siltstone - generally milky, firm-moderately firm, slightly calcareous, slightly argillaceous, trace Glauconite.

Some Limestone and Argillaceous Limestone - as above.

Some Argillaceous Dolomite-Dolomite - as above.

- 4290-4320 Shale - medium gray-brownish gray, moderately soft-moderately firm in part, slightly-moderately carbonaceous, slightly-moderately carbonaceous, sub-blocky in part.
- Limestone-Argillaceous Limestone - tan-buff, soft-moderately soft, cryptocrystalline, dense.
- 4320-50 Shale - light-medium gray, moderately soft-moderately firm, slightly-moderately calcareous, slightly carbonaceous in part, sub-blocky in part.
- Limestone-Argillaceous Limestone - as above, trace spar Calcite.
- Some Siltstone as 4260-4290 above.
- 4350-80 Shale - emerald-light gray occasionally medium gray, moderately soft-moderately firm, slightly calcareous, frequently silty-sandy, very slightly carbonaceous in part, trace Pyrite, trace rust-rose-lavender which tends to be silty-sandy.
- Limestone-Argillaceous Limestone - microcrystalline-occasionally cryptocrystalline, moderately soft-moderately firm, dense, some pellets, other unidentifiable fossil fragments.
- Some Argillaceous Dolomite-Dolomite - as above.
- 4380-4410 Shale - medium brown, sub-blocky, slightly calcareous, slightly-moderately carbonaceous, moderately firm, also much light gray-slightly emerald, frequently cream, moderately soft-soft, slightly-moderately calcareous, sub-blocky in part.
- Some Argillaceous Dolomite-Limy Dolomite - orangish tan-yellowish tan, microcrystalline, moderately firm, slightly carbonaceous, dense.
- 4410-40 Shale - medium gray-brownish gray, occasionally light gray-slightly emerald, sub-blocky in part, moderately firm. Slightly calcareous, slightly carbonaceous, trace Pyrite.
- Limestone-Argillaceous Limestone - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 4440-70 Shale - light gray, frequently cream, occasionally medium gray, silty in part, slightly calcareous, commonly microcrystalline disseminated Pyrite, moderately soft-moderately firm, sub-blocky in part.

Sandstone - very fine grained-ranging to Siltstone, milky-occasionally clear, poorly sorted, moderately argillaceous, slightly-moderate calcareous, frequently specks carbonaceous material, commonly pyritic, trace Glauconite, no apparent porosity, NSFOC.

Some Argillaceous Dolomite-Limy Dolomite - as above.

4470-4500 Shale - light gray frequently slightly emerald, occasionally medium gray-cream, moderately soft, slightly calcareous, some specks carbonaceous material, frequently pyritic, silty in part.

Argillaceous Dolomite-Limy Dolomite - orangish tan-reddish brown, microcrystalline, moderately firm-moderately soft, slightly carbonaceous, dense.

Some Siltstone - milky-light gray, sandy in part, moderately firm-firm, moderately-slightly argillaceous, frequently specks carbonaceous material, trace Glauconite, frequently pyritic, poorly sorted, NSFOC.

4500-30 Shale - generally light gray, occasionally medium gray-slightly emerald-cream, moderately soft, slightly calcareous, very slightly carbonaceous, frequently pyritic, frequently silty.

4530-42 Sandstone - very fine grained, milky-clear-commonly slightly brown, moderately well consolidated-moderately friable, moderately well sorted, slightly calcareous in part, sub-round to sub-angular, fair-good intergranular porosity, good even light brown oil stain with common pinpoint oil globules, occasional lithic fragments, good dull gold fluorescence, fair-good bright yellow flash-halo milky cut. Appears to be very good reservoir with good oil shows.

4542-60 Shale - medium-dark gray - brownish gray, occasionally light gray-cream, moderately soft, slightly-moderately carbonaceous, slightly-moderately carbonaceous, moderately soft, sub-blocky.

4560-90 Shale - generally as above, increase in light gray-cream, occasionally slightly emerald, some Pyrite.

Some Argillaceous Dolomite-Limy Dolomite - as above.

4590-4620 Shale - generally light gray-cream, moderately soft-soft, slightly-moderately calcareous, silty in part, some Pyrite, frequently dark gray, moderately firm, sub-blocky, slightly calcareous, moderately-highly carbonaceous.

Some Siltstone - milky-clear, occasionally sandy, well consolidated, slightly calcareous, slightly-moderately argillaceous, moderately-poorly sorted, frequently specks of lithic material-carbonaceous material, trace Glauconite, some Pyrite, NSFOC. Much oil globules contained in sample.

4620-50 Shale - medium-dark gray-frequently light gray, occasionally grayish black, moderately soft-moderately firm, slightly-highly carbonaceous, slightly calcareous, sub-blocky in part, trace Pyrite.

4650-80 Shale - dark gray-black with bronze cast, moderately soft, slightly-moderately calcareous, moderately-highly carbonaceous, sub-fissile to sub-platy, abundant microcrystalline disseminated Pyrite, much oil contamination.

4680-4710 Shale - generally light gray, occasionally medium gray-cream-slightly emerald, soft-moderately soft, slightly-moderately calcareous, slightly carbonaceous in part, frequently pyritic.

Some Sandstone - very fine-fine grained, moderately unconsolidated-slightly friable, moderately well-poorly sorted, sub-round to sub-angular, slightly calcareous, slightly-moderately carbonaceous, poor-fair intergranular porosity, trace even light brown oil stain. more commonly pinpoint black globules on grain contacts. very weak dull gold fluorescence. fair bright yellow glow-very weak halo cut. Reservoir appears marginal, shows are fair.

Some Argillaceous Dolomite-Limy Dolomite - as above.

4710-40 Sandstone - fine-very fine grained, milky-clear, moderately consolidated-moderately friable, slightly calcareous, slightly argillaceous in part, moderately well sorted, some lithic fragments, fair-good porosity, abundant pinpoint black oil globules - oil stain on grain contacts. no fluorescence. weak dull yellow halo cut. much oil contamination. Good reservoir with fair-good oil show.

Shale - light gray-cream, moderately soft, slightly calcareous, frequently pyritic, sub-blocky in part.

Some Argillaceous Dolomite-Limy Dolomite - as above.

4740-70 Shale - generally medium gray, slightly-moderately calcareous, slightly carbonaceous, moderately soft, frequently silty, frequently pyritic.

4770-86 Limestone-Argillaceous Limestone - light tan occasionally buff, crypto-crystalline-microcrystalline, moderately firm-moderately soft, frequently ostracods, dense.

Sandstone very fine grained—ranging to Siltstone – milky—light gray, generally poorly sorted, moderately—well consolidated, sub—angular, tight—poor intergranular porosity, moderately argillaceous, slightly calcareous, occasionally very faint tan oil stain, very weak dull yellow fluorescence, occasionally very weak bluish yellow milky cut. Poor reservoir and oil show.

Shale – light gray—cream, moderately soft—soft, slightly calcareous, sub—blocky in part, some Pyrite, silty in part.

4786–4800

Shale – medium gray, frequently light gray—cream, moderately soft, slightly—moderately calcareous, some specks carbonaceous material, frequently silty, some Pyrite.

Some Siltstone – milky—clear, firm, well consolidated, slightly argillaceous, slightly carbonaceous, NSFOC.

4800–30

Shale – medium—light gray, frequently brownish gray—cream, moderately soft—moderately firm in part, slightly calcareous, slightly—moderately carbonaceous in part, frequently pyritic, sub—blocky in part.

Dolomite – light tan—buff, microcrystalline, moderately firm—moderately friable, fair—good microcrystalline (sucrosic) porosity, commonly light brown oil stain – pinpoint dark brown oil globules, fair dark gold fluorescence, fair bright yellow glow—halo cut.

Some Argillaceous Dolomite—Limy Dolomite – as above.

Some Limestone—Argillaceous Limestone – tan—buff, cryptocrystalline, moderately firm, dense, ostracods common, some pellets and trace pisolites.

4830–60

Shale – generally medium—light gray, frequently emerald, cream, slightly lavender, rust, moderately firm—soft, slightly calcareous, slightly carbonaceous in part, frequently silty—sandy, occasionally pyritic.

Argillaceous Dolomite—Limy Dolomite – orangish tan—yellowish tan, occasionally medium—dark brown, microcrystalline—cryptocrystalline, firm—moderately firm, frequently hard and brittle, dense, slightly—moderately carbonaceous, occasionally trace Pyrite.

Some Siltstone – ranging to very fine grained Sandstone, milky—white, occasionally clear, well consolidated, commonly specks of lithic and/or carbonaceous material, moderately—poorly sorted, slightly argillaceous, slightly calcareous, NSFOC.

- 4860-90 Shale - light-medium gray-occasionally cream, generally soft-moderately soft, slightly-moderately calcareous, frequently pyritic, silty in part.
- Siltstone - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.
- Some Sandstone - very fine grained, milky-light tan in part, generally well consolidated, moderately sorted, sub-angular to sub-round, some fair intergranular porosity in part, some light brown stain, pinpoint medium-dark brown oil specks, very weak dull gold fluorescence, weak dull bluish-yellow oozing-milky cut. Not much Sandstone in sample, reservoir may be marginal.
- 4890-4920 Sample - as above but no Sandstone with oil show.
- 4920-50 Shale - medium gray oil light gray, soft-moderately soft, slightly-moderately calcareous, some specks carbonaceous material, frequently pyritic, frequently silty.
- 4950-80 Shale - generally as above, frequently slightly emerald-cream.
- Siltstone - ranging to very fine-fine grained Sandstone, generally milky - occasionally slightly tan, generally well consolidated, moderately-poorly sorted, slightly argillaceous, slightly carbonaceous, some lithic fragments, occasionally Pyrite, generally tight, some poor-fair intergranular porosity, occasionally faint uneven light brown oil stain-scattered faint medium brown pinpoint oil droplets, trace very weak dull gold fluorescence in part, very weak bluish-yellow milky-oozing cut, questionable reservoir rock and not much quantity of show rock.
- 4980-5010 Shale - medium-occasionally dark gray-to medium-dark brown-cream, soft-moderately soft, sub-blocky in part, slightly-moderately calcareous, slightly carbonaceous in part, occasionally silty, frequently pyritic.
- Some Argillaceous Dolomite-Limy Dolomite - as above.
- 5010-40 Sandstone - very fine grained, milky-commonly light brown, moderately consolidated-slightly friable, moderately well sorted, sub-angular to sub-round, slightly calcareous in part, slightly argillaceous in part, fair-good intergranular porosity, generally good even light-medium brown oil stain, commonly pinpoint medium-dark brown oil globules, much oil droplet contamination, very weak dull gold fluorescence in part, fair-good bluish yellow glow-halo cut.

Reservoir looks acceptable but permeability could be low due to very fine grained nature of Sandstone. Shows are good and this is the best Sandstone in well after the Y-3 Sandstone.

Shale - as above.

Argillaceous Dolomite-Limy Dolomite - as above.

5040-70

Shale - light gray-cream, occasionally medium gray, soft-moderately soft, slightly-moderately calcareous, occasionally silty, frequently pyritic.

Argillaceous Dolomite-Limy Dolomite - as above.

5070-5100

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

Some Argillaceous Dolomite-Limy Dolomite - as above.

5100-40

Shale - light-medium gray, occasionally cream-dark gray, generally moderately soft-soft, slightly-moderately calcareous, slightly carbonaceous in part, frequently silty, trace Pyrite.

Some Siltstone - milky-clear-occasionally white, argillaceous in part, slightly calcareous, well consolidated, NSFOC.

Some Argillaceous Dolomite-Limy Dolomite - orangish tan-yellowish tan, occasionally reddish brown, microcrystalline-cryptocrystalline, firm-moderately firm, occasionally hard and brittle, moderately carbonaceous, dense, occasionally in contact with spar-crystalline Calcite.

5140-50

Sandstone - very fine grained, generally light brown-occasionally milky, moderately well consolidated-slightly friable in part, moderately well sorted, slightly argillaceous in part, slightly calcareous in part, sub-round to sub-angular, fair-good intergranular porosity, good even light-medium brown oil stain frequently with dark brown oil globules on grain contacts. Much oil contamination from oil globules. Good dull gold fluorescence. good bright bluish yellow burst-milky cut. Even though very fine grained, appears to be good reservoir with acceptable permeability with good oil show.

Shale - light-medium gray, frequently cream-emerald-dark gray as above.

Argillaceous Dolomite-Limy Dolomite as above.

- 5150-60 Sandstone - generally as above, not much oil globules on grain contacts or oil contamination.
- Shale - generally medium gray-emerald, commonly slightly lavender, rust-cream and mottled, moderately firm-soft, slightly calcareous in part, slightly carbonaceous in part, sub-block occasionally.
- Some Argillaceous Dolomite-Limy Dolomite - as above.
- 5160-90 Argillaceous Limestone-Dolomitic Limestone - dark tan-medium brown, cryptocrystalline-occasionally microcrystalline, generally firm and brittle, dense, slightly carbonaceous, occasionally spar Calcite.
- 5190-5220 Shale - light-medium gray, moderately soft, silty in part, slightly calcareous, slightly calcareous, slightly carbonaceous in part, frequently pyritic.
- Some Siltstone - ranging to very fine grained Sandstone, generally as above, may be cavings.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 5220-50 Shale - medium-dark gray, frequently grayish brown, moderately soft-moderately firm, slightly-moderately calcareous, slightly-moderately carbonaceous, frequently silty, pyritic.
- Siltstone - ranging to very fine grained Sandstone, generally milky, moderately-poorly sorted, slightly-moderately argillaceous, slightly calcareous, some Pyrite, trace Glauconite, sub-angular, well consolidated, generally tight, generally NSFOC, occasionally uneven light brown oil stain, trace very weak dull yellow fluorescence, with trace very weak bright yellow milky cut after soaking.
- 5250-80 Siltstone - ranging to very fine grained Sandstone, generally light gray, abundant specks carbonaceous material and Glauconite, well consolidated, moderately firm, slightly-moderately argillaceous, slightly-moderately calcareous, moderately well sorted, generally tight, some poor-fair intergranular porosity, sub-round to sub-angular, NSFOC.
- Shale - medium-light gray-occasionally cream, moderately soft, silty in part, frequently specks of carbonaceous material, commonly pyritic.
- 5280-5310 Siltstone - ranging to very fine grained Sandstone as above, occasionally fine grained, trace black dead oil stain, no fluorescence, bluish yellow milky cut after soaking.

- Shale - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 5310-40 Shale - generally as above, some rust-emerald-lavender.
- Siltstone as 5250-5280 above, NSFOC.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 5340-70 Shale - generally medium-dark gray occasionally light gray-cream,, typically firm-moderately firm, moderately carbonaceous, moderately calcareous, abundant microcrystalline disseminated Pyrite, sub-blocky in part.
- 5370-5400 Highly mixed sample, not considered reliable.
- 5400-30 Shale - light-gray-cream occasionally medium gray, soft-moderately firm, sub-blocky in part, slightly-moderately calcareous, slightly carbonaceous in part, some Pyrite, occasionally silty.
- Sandstone very fine-fine grained ranging to Siltstone - milky-occasionally white-clear, moderately-poorly sorted, well consolidated, slightly-moderately argillaceous, slightly calcareous, some Pyrite and Glauconite, some fair intergranular porosity, generally NSFOC, occasionally uneven light brown oil stain, trace very weak dull yellow fluorescence with very weak bluish yellow milky-halo cut.
- Argillaceous Dolomite-Limy Dolomite - yellowish tan-slightly orangish tan occasionally slightly reddish brown, microcrystalline-occasionally cryptocrystalline, firm-moderately soft, occasionally brittle, slightly-moderately carbonaceous dense.
- 5430-60 Shale - light gray-cream, occasionally emerald, frequently pyritic, as above.
- Sandstone - very fine-fine grained ranging to Siltstone, as above.
- Argillaceous Dolomite-Limy Dolomite - as above, some crystalline Calcite.
- 5460-90 Shale - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.
- Some Sandstone very fine-fine grained, generally light brown, moderately unconsolidated-friable, moderately-well sorted, sub-angular to sub-round, some good intergranular porosity, generally good even light-medium brown

oil stain, oil globs and droplets common in sample, faint dull gold fluorescence, good dull bluish yellow burst-milky cut.

Sandstone could be cavings since not a large percentage of sample, need to review this interval carefully on E-logs.

5490-5512 Sandstone - very fine-fine grained ranging to Siltstone, as 5400-5430 above.

Argillaceous Dolomite-Limy Dolomite - as above.

Shale - generally as above, some rust-lavender-emerald. Some Shale dark gray-grayish black with bronze cast, moderately soft, highly pyritic, very slightly calcareous, highly carbonaceous-petroliferous, sub-blocky in part.

5512-20 Shale - black-grayish black commonly with bronze cast from abundant microcrystalline disseminated Pyrite, soft-moderately firm, sub-blocky to sub-platy in part, slightly calcareous, highly carbonaceous-petroliferous.

5520-50 Shale - generally medium gray, moderately soft, slightly calcareous, abundant Pyrite, slightly carbonaceous, some black-grayish black shale - as above.

5550-80 Shale - medium-light gray, slightly rust in part, soft-moderately soft, slightly calcareous, abundant microcrystalline Pyrite, slightly carbonaceous in part, silty-gritty in part, sub-blocky to sub-platy in part.

5580-5610 Shale - as above.

Limy Dolomite-Argillaceous Dolomite - as above.

5610-40 Shale - generally medium-light gray, frequently dark gray-slightly emerald, moderately soft, slightly-moderately calcareous, slightly-moderately carbonaceous, frequently silty, sub-blocky in part.

Some Argillaceous Dolomite-Limy Dolomite - as above.

5640-70 Shale - medium-light gray-cream, soft-moderately firm, slightly-moderately calcareous, slightly carbonaceous in part, occasionally silty, sub-blocky in part.

Argillaceous Dolomite-Limy Dolomite - slightly reddish brown-yellowish tan-orangish tan, microcrystalline-cryptocrystalline, firm-moderately soft, slightly carbonaceous in part, some crystalline-spar Calcite, dense.

Sandstone - very fine-fine grained-ranging to Siltstone, generally milky-occasionally clear, frequently specked with carbonaceous material-lithic fragments and/or Glauconite, moderately-poorly sorted, slightly-moderately

argillaceous, slightly calcareous, sub-round to sub-angular, some fair intergranular porosity, generally NSFOC, occasionally uneven light brown oil stain-spotty oil stain, some shows appear to be dead oil, very weak dull gold fluorescence in part, with very weak dull bluish yellow milky cut after soaking.

5670-5700

Shale - light-medium gray-emerald-rust, moderately firm-soft, slightly calcareous, slightly carbonaceous in part, silty in part, occasional sub-blocky.

Siltstone - ranging to very fine grained Sandstone, generally light-medium brown, moderately consolidated-friable, moderately sorted, slightly argillaceous, slightly calcareous in part, sub-round to sub-angular, fair-good intergranular porosity, good even light-medium brown oil stain, very weak dull gold fluorescence in part, weak dull bluish-yellow halo cut. Reservoir quality may be a problem, due to very fine particle size.

Limy Dolomite-Argillaceous Dolomite as above.

5700-30

Shale - grayish black-dark gray, moderately soft-moderately firm in part, abundant microcrystalline disseminated Pyrite, sub-blocky to sub-fissile, very slightly calcareous, highly carbonaceous-petroliferous.

5730-60

Shale - light gray, very silty-gritty, specked with carbonaceous material and Mica, commonly pyritic, moderately soft, slightly-moderately calcareous, at times this is so silty it is borderline to Siltstone.

5760-90

Shale - dark gray-grayish black with bronze cast due to Pyrite, very slightly calcareous, moderately soft-moderately firm, moderately-highly carbonaceous, sub-fissile to sub-blocky.

5790-5806

Shale - generally grayish black with slightly bronze cast in part, slightly-moderately calcareous, moderately soft-moderately firm, abundant Pyrite - sub-blocky, moderately highly carbonaceous, some tannish gray, soft-marly, moderately-highly calcareous, slightly carbonaceous.

Trace Argillaceous Limestone - medium-dark brown, microcrystalline, moderately firm, dense, trace ostracods.

5806-20

Shale - light-medium gray, moderately firm-moderately soft, slightly-moderately calcareous, very slightly carbonaceous in part, pyritic in part, occasionally silty, some Shale - as above.

Sandstone - very fine-fine grained, milky-light brown, moderately consolidated-slightly friable, moderately-poorly sorted, sub-round, frequently argillaceous, slightly calcareous, some Pyrite, fair intergranular porosity in part. Generally uneven light-medium brown oil stain, some oil droplets on grain

contacts, many oil globs contaminating sample, fair dull yellow fluorescence, weak bright yellow glow-halo cut. Reservoir appears to have limited permeability and may be a marginal zone.

5820-50

Shale - cream to light-medium gray, occasionally slightly emerald, frequently silty, moderately soft, slightly-moderately calcareous, slightly specked with carbonaceous material.

Some Siltstone - ranging to very fine grained Sandstone, generally white, poorly sorted, slightly-moderately argillaceous, slightly-moderately calcareous. Some lithic fragments-carbonaceous material. Occasionally Glauconite and Pyrite -no apparent porosity, NSFOC.

5850-70

Sandstone - generally fine grained, ranges from very fine-medium grained, clear-milky, moderately unconsolidated-friable, moderately-well sorted, slightly calcareous in part, sub-round to occasionally round, good intergranular porosity, good even-uneven light brown oil stain, abundant medium-dark brown spotty oil droplets on grain contacts. Many oil globs contaminating sample, very weak dull yellow fluorescence, good bright bluish yellow burst-halo cut. Appears to be good reservoir with good oil show.

Shale - as above.

5870-90

Shale - light gray-cream, frequently silty, frequently specked-mottled with carbonaceous material, moderately soft, slightly-moderately calcareous.

Sandstone very fine-fine grained ranging to Siltstone - white-milky, generally well consolidated, moderately firm, poorly sorted, slightly-moderately calcareous, slightly-moderately argillaceous, some Glauconite, some Mica, no apparent porosity, generally NSFOC, occasionally black dead oil, occasionally rock with good show but probably cavings.

5890-5910

Shale - as above.

Sandstone - fine grained ranges from very fine-medium grained, milky-light brown in part, moderately well consolidated-friable in part, frequently lithic fragments-Glauconite, some Mica, moderately-poorly sorted, slightly argillaceous in part, slightly calcareous, some fair-good intergranular porosity, over 50% of sample has NSFOC, remainder light-medium brown even-spotty oil stain, very weak dull gold-yellow fluorescence, very weak dull yellow halo cut, difficult to assess potential because much rock does not have show. Potential must be confirmed with E-logs.

Some Argillaceous Dolomite-Limy Dolomite - as above.

- 5910-40 Shale - medium-dark gray moderately soft-moderately firm, slightly calcareous, slightly-moderately carbonaceous, frequently silty, some Pyrite, sub-blocky in part.
- 5940-70 Shale - as above, much light gray-cream, specked-mottled as 5870-5890 above.
- Sandstone - generally fine grained, range from Siltstone - medium grained Sandstone, moderately well consolidated, milky, moderately sorted, slightly argillaceous in part, slightly calcareous in part, frequently lithic fragments, some Glauconite, some poor-fair intergranular porosity, NSFOC.
- 5970-6000 Shale - as above.
- Sandstone - generally as above, but frequently faint light tan even-spotty oil stain, no fluorescence, trace very weak dull yellow glow cut. This Sandstone is considered non-commercial.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 6000-30 Shale - as above, some dark gray-grayish black, moderately soft, slightly calcareous, moderately-highly carbonaceous, slightly pyritic, sub-blocky in part.
- Some Argillaceous Dolomite-Limy Dolomite as above.
- Some Sandstone as above, generally NSFOC.
- 6030-60 Shale - generally dark gray-dark brownish gray, moderately soft, slightly calcareous, frequently bronze cast from Pyrite, moderately-highly carbonaceous, sub-blocky to sub-platy.
- Some Argillaceous Limestone - dark brown, microcrystalline-cryptocrystalline, firm, brittle in part, slightly carbonaceous, dense.
- 6060-90 Shale - mostly light-medium gray-cream-slightly emerald, moderately soft, slightly calcareous, occasionally silty, sub-blocky to sub-splintery in part, occasionally pyritic, some dark gray Shale - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.
- 6090-6120 Shales - as above.
- Argillaceous Dolomite-Limy Dolomite - as above.

Some Sandstone – generally fine grained, ranges from very fine–medium grained, generally moderately consolidated, moderately well sorted, slightly argillaceous in part, slightly calcareous, some lithic fragments, some fair–good intergranular porosity, generally NSFOC, occasionally fair light tan even–uneven oil stain, good bright yellow fluorescence, weak dull yellow glow–halo cut. Shows are not bad but not much quantity in sample. Need to confirm zone on E–logs.

6120–50 Shale 50–50 mix of light gray–cream and dark gray–brownish gray – as above.

Limy Dolomite–Argillaceous Dolomite – as above.

Sandstone – as above, generally NSFOC.

6150–80 Shales – as above.

Limy Dolomite–Argillaceous Dolomite – as above.

6180–6210 Shale – light–medium gray frequently dark brownish gray, moderately soft–soft, slightly–moderately calcareous, slightly–highly carbonaceous, frequently pyritic, silty in part, occasionally sub–blocky.

Some Argillaceous Limestone – dark brown, cryptocrystalline, firm, brittle in part, slightly carbonaceous, dense, trace of ostracods?

6210–35 Shale – dark gray–grayish black–black, moderately soft, abundant microcrystalline disseminated Pyrite, slightly calcareous in part highly carbonaceous–petroliferous, sub–blocky in part.

Some Argillaceous Limestone – as above.

6235–50 Shale – as above.

Argillaceous Limestone–Limestone medium–dark brown, microcrystalline, moderately firm–firm, dense, slightly carbonaceous.

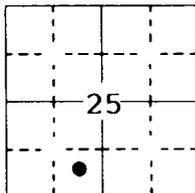
TOTAL DEPTH – 6250' DRILLER.

# DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

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

## GEOLOGIC WELL LOG



BALCRON MONUMENT FEDERAL 24-25  
653' FSL, 2028' FWL, SEC. 25, T8S-R17E  
UINTAH COUNTY, UTAH

ELEVATIONS: G.L. 5018' (GRADED), K.B. 5028'

SPUD: 7:30 PM(MDT) 9/24/95 (ROTARY)

OUT FROM UNDER SURF. CSG.: 8:30 PM(MDT) 9/25/95

DATE DRLG. COMP.: 8:15 PM(MDT) 10/2/95

DATE WELL COMPLETED: 1:35 PM(MDT) 10/4/95

STATUS: Cased for oil completion attempt

SURF. CSG.: 85/8" TO 301' K.B.

PRODUCTION CSG: 51/2" TO 6217' K.B.

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: UNION DRILLING CO.

RIG: NO. 17

DERRICK: CABOT FRANKS, 97' MAST

DRAWWORKS: DETROIT 3304, POWERED BY  
ONE 343 DIESEL CAT

PUMPS: 1-GARDINER DENVER FXN,  
14" STROKE, 51/2" LINER

DRILL PIPE: 41/2" OD, 21/4" ID, X-H  
THREAD

COLLARS: 17 jts., 6" OD

MUD SYSTEM: AIR/FOAM TO 4200', KCL/WTR  
4200'-TD

TOTAL BITS: 4

TOTAL DAYS TO LOG POINT: 9 TO COMPL: 10

T.D. DRILLER 6250' LOGGER 6247'

PENETRATION: 54' below top of Uteland  
Butte Ls

### ROCK TYPE

(Consistent with American Stratigraphic Company)

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

### ACCESSORIES

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

### ORGANIC or NON ORGANIC ALLOCHEMS

	FORAMINIFERA		CEPHALOPOD
	CRINOID		GASTROPOD
	PELECYPOD		ECHINOID
	BIOLASTIC or FRAGMENTAL		FOSSILS UNIDENTIFIABLE
	CORAL		OOLITES
	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
∅	INTERDOLITIC, 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

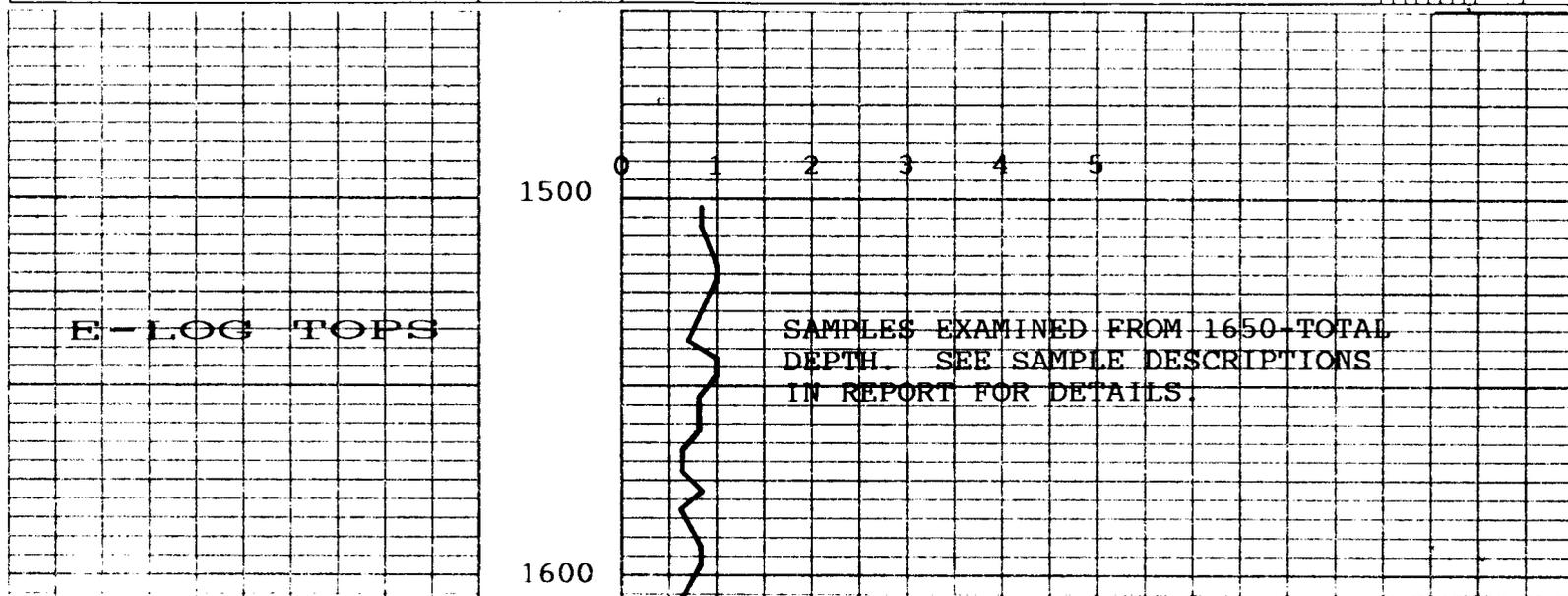
V	VISCOSITY
W	WEIGHT IN lbs/gal
WL	FILTRATE IN cc
FC	FILTER CAKE
CL	CHLORIDE CONTENT (ppm)
Rm	MUD RESISTIVITY ( ∩ )
Rmf	MUD FILTRATE RESISTIVITY ( ∩ )

ELECTRIC LOG  
GAMMA RAY / CALIPER

INTERPRETED  
LITHOLOGY  
AND  
DEPTH

DRILLING PENETRATION  
RATE (MIN / FT)

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



INTERPRETATIVE GEOLOGIC & SAMPLE DESCRIPTIONS  
BASED ON SAMPLES CAUGHT BY MUDLOGGERS  
GENERALLY TO WELL LOG TIME LOG.  
SEE REPORT FOR DETAILED DESCRIPTION  
OF SAMPLES, POROSITY & SHOWS.

GREEN RIVER

1700

1800

1900

2000

2100

2200

2300

2400

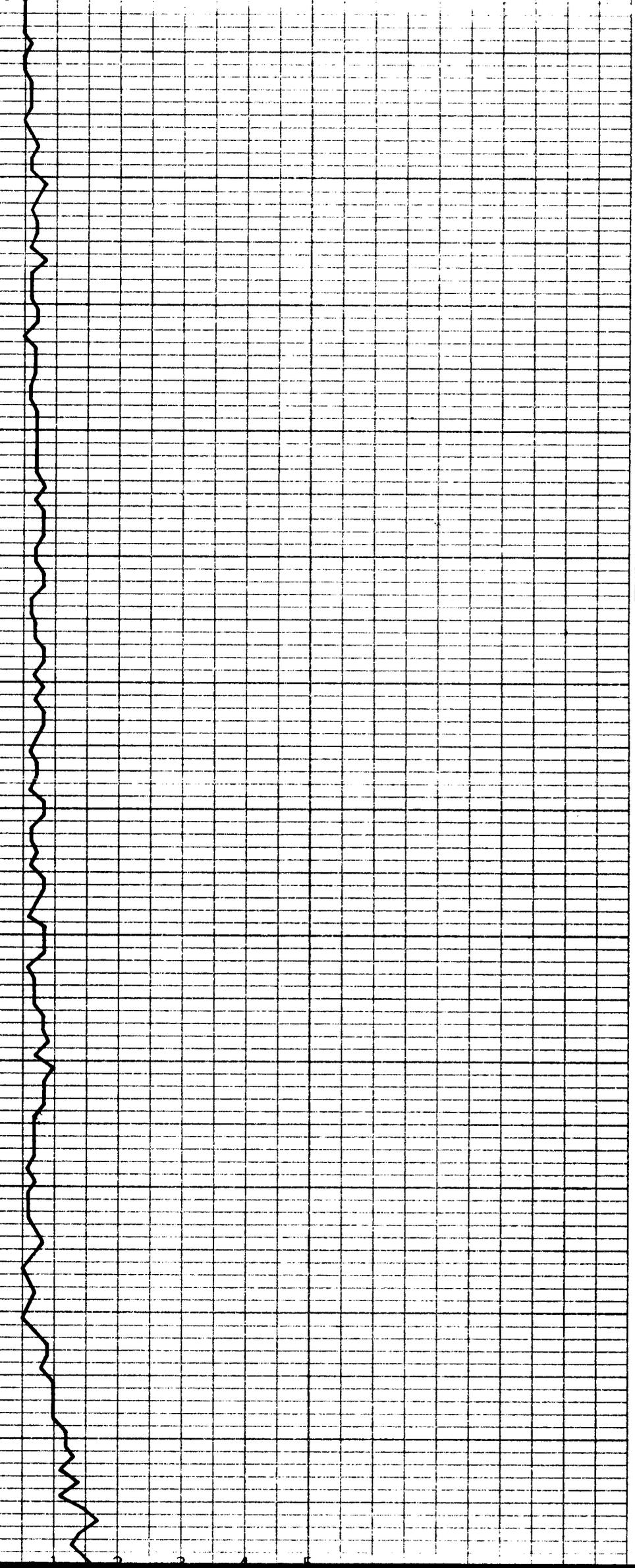
2500

2600

2700

2800

HORSEBENCH



2900

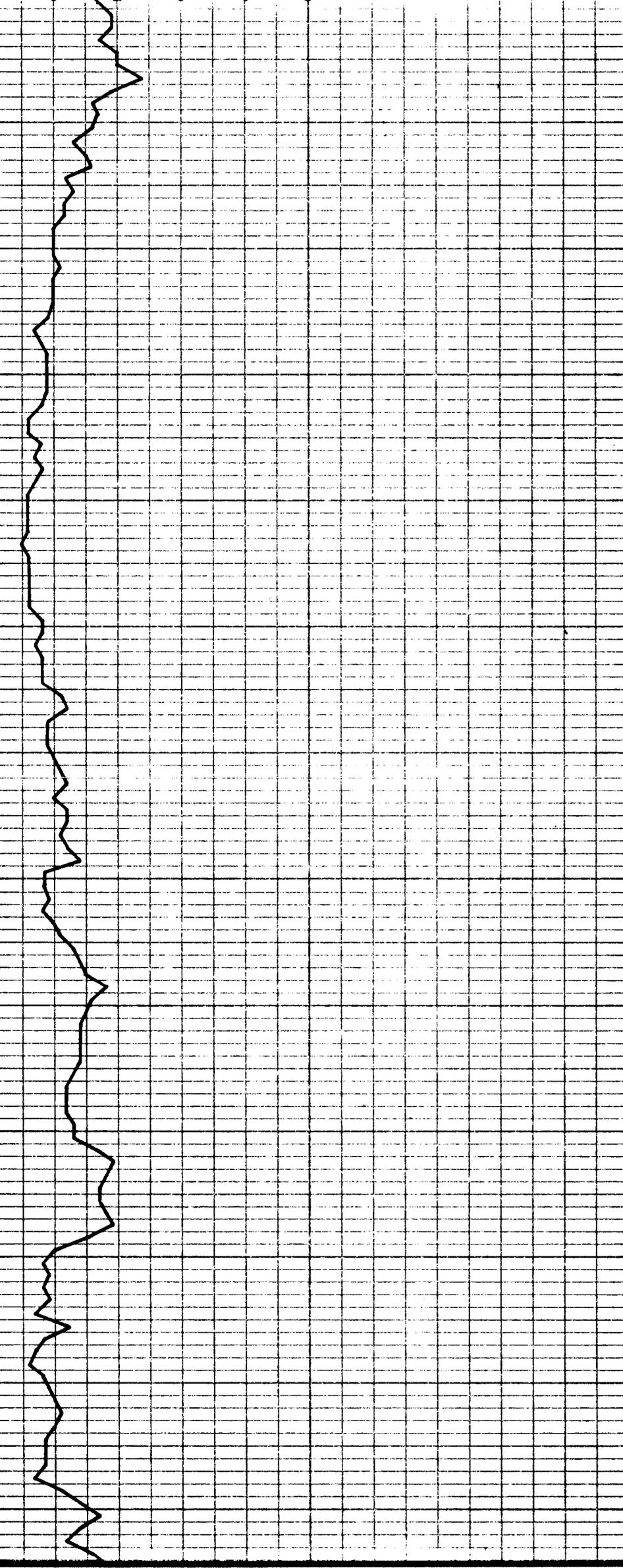
3000

3100

3200

3300

3400



3500

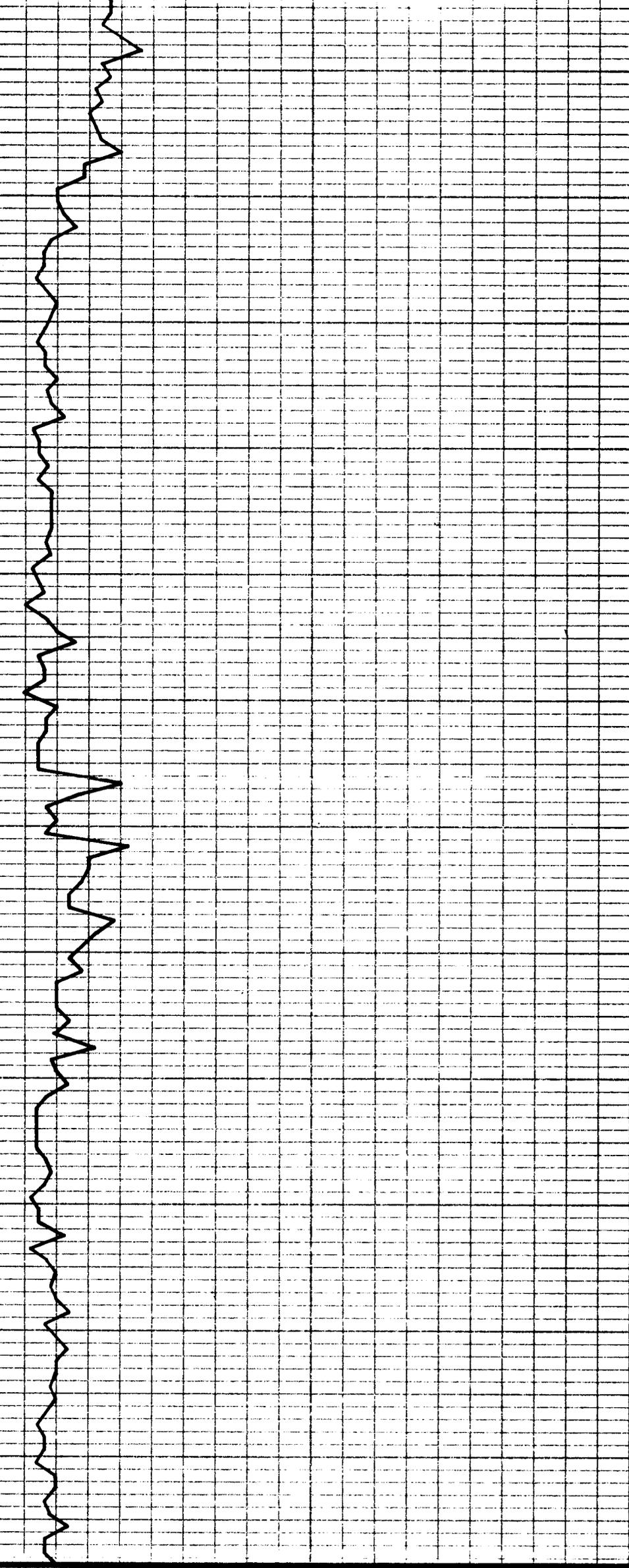
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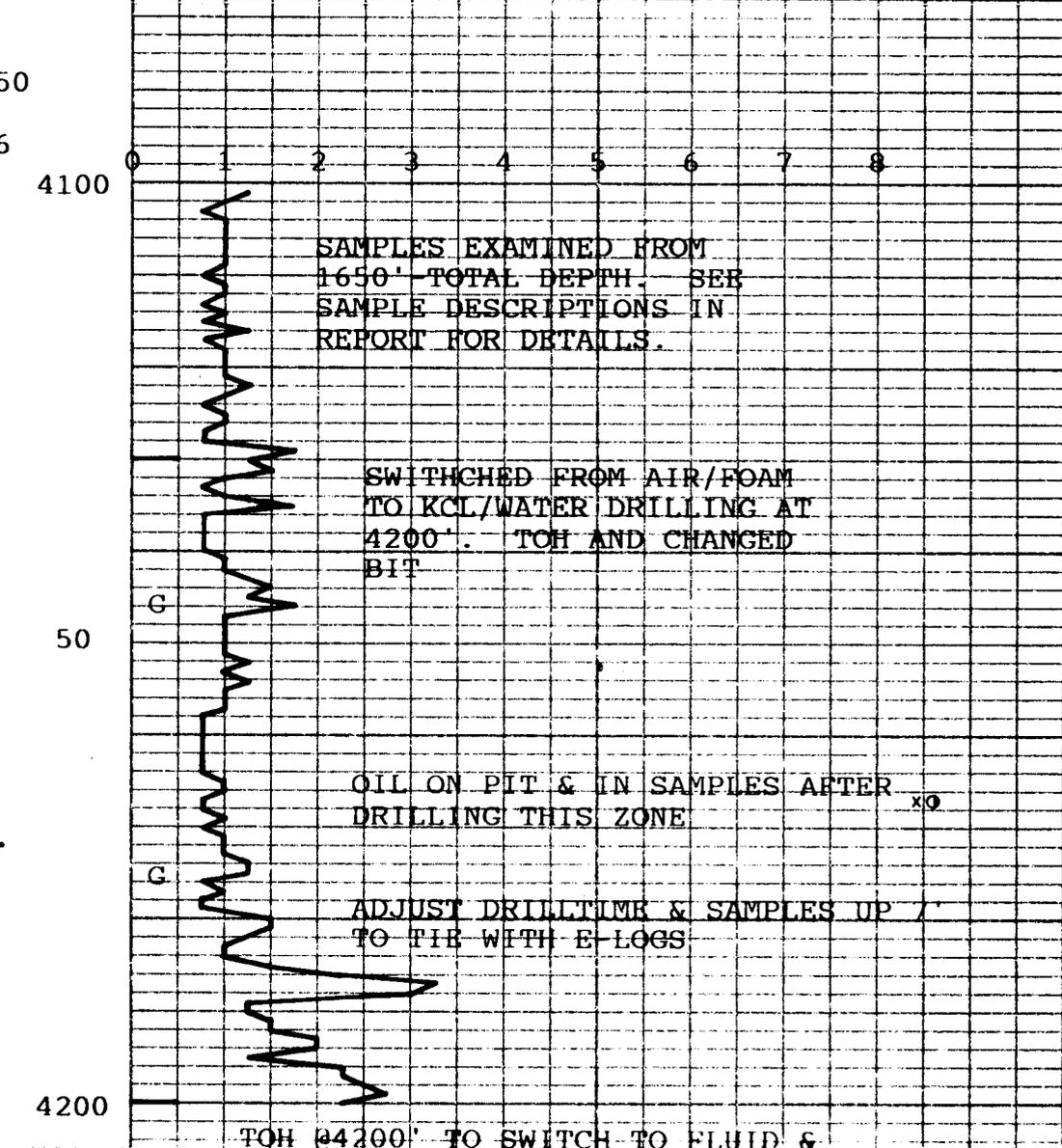
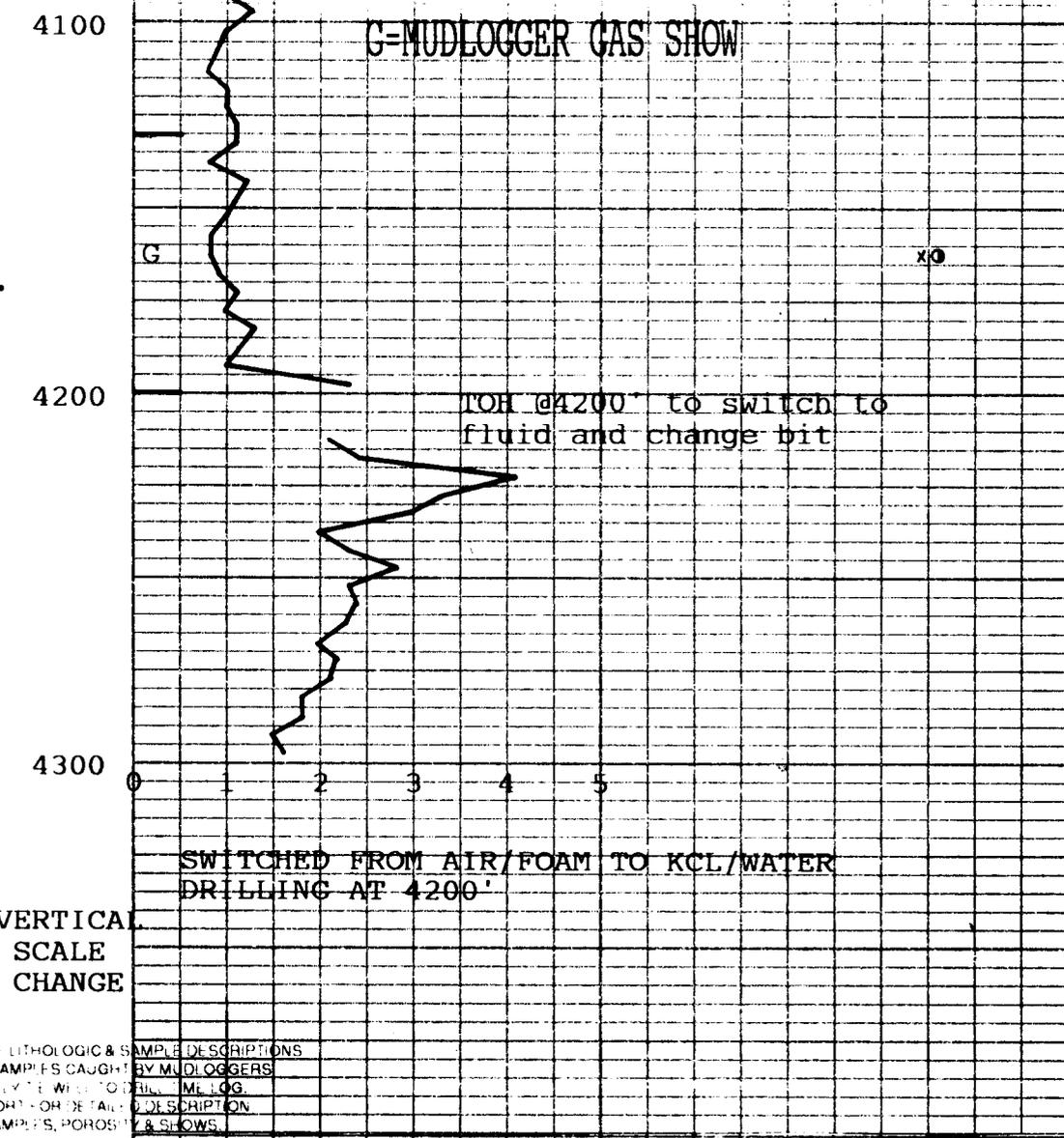
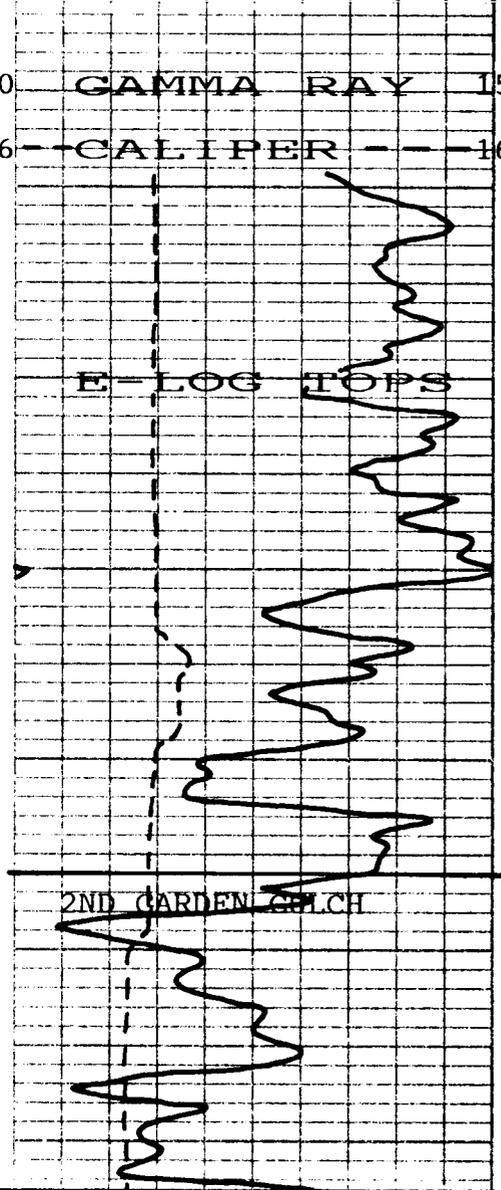
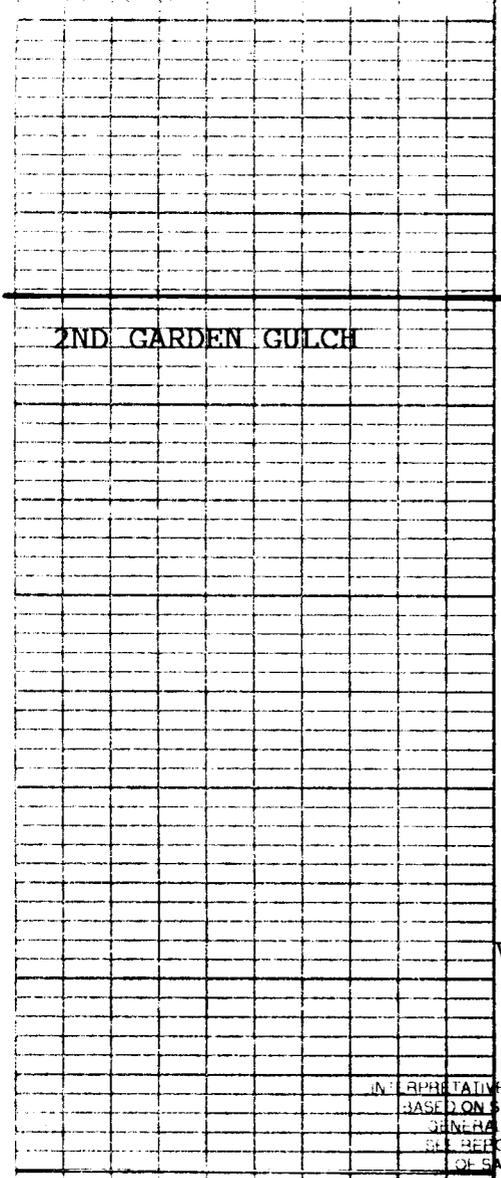
3700

3800

3900

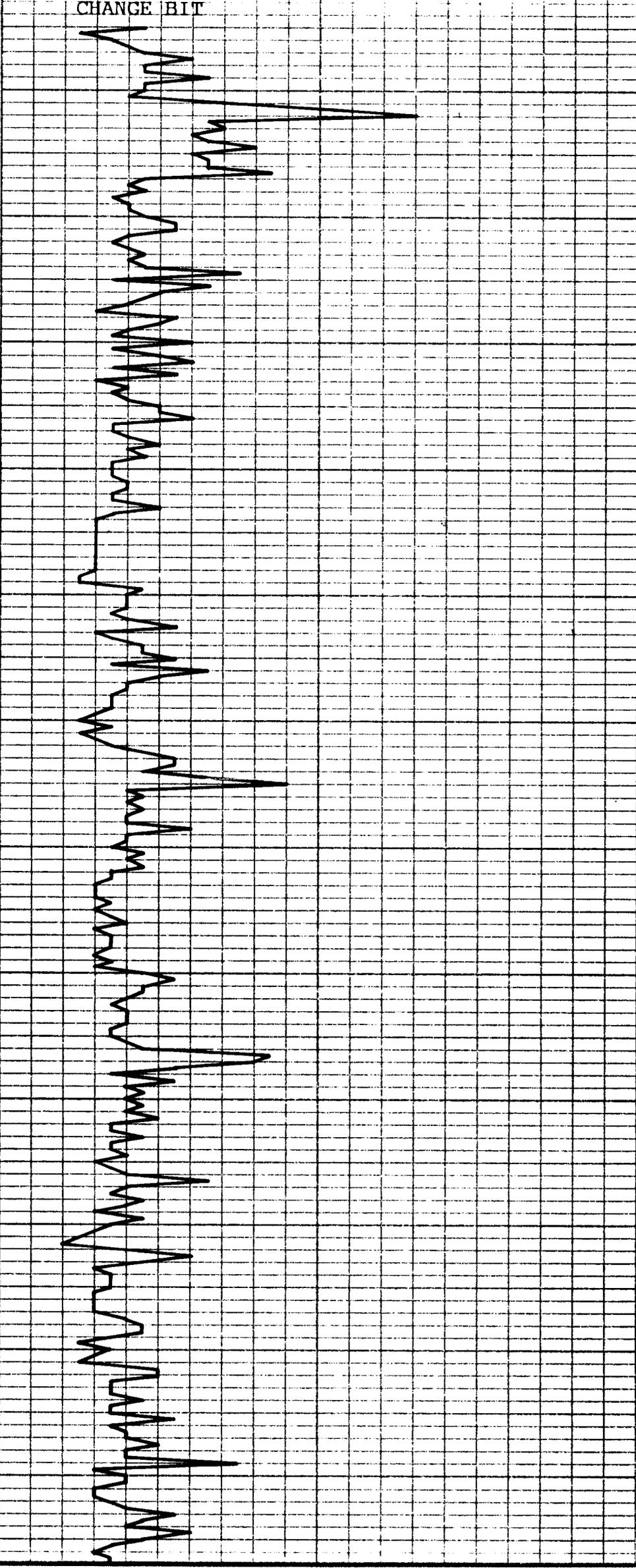
4000





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CHANGE BIT



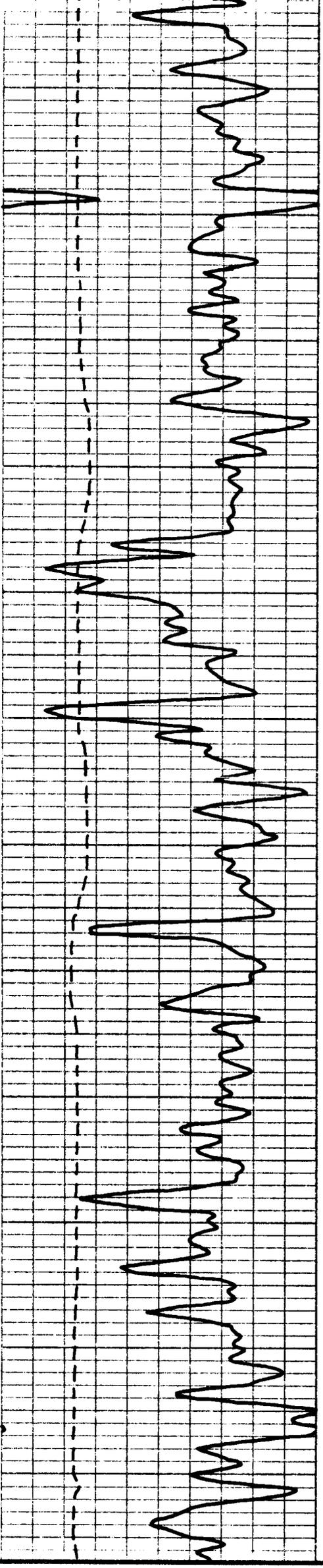
50

4300

50

4400

50



4500

G=MUDLOGGER GAS SHOW

ADJUST DRILLTIME & SAMPLES UP 9' TO TIE TO E-LOGS

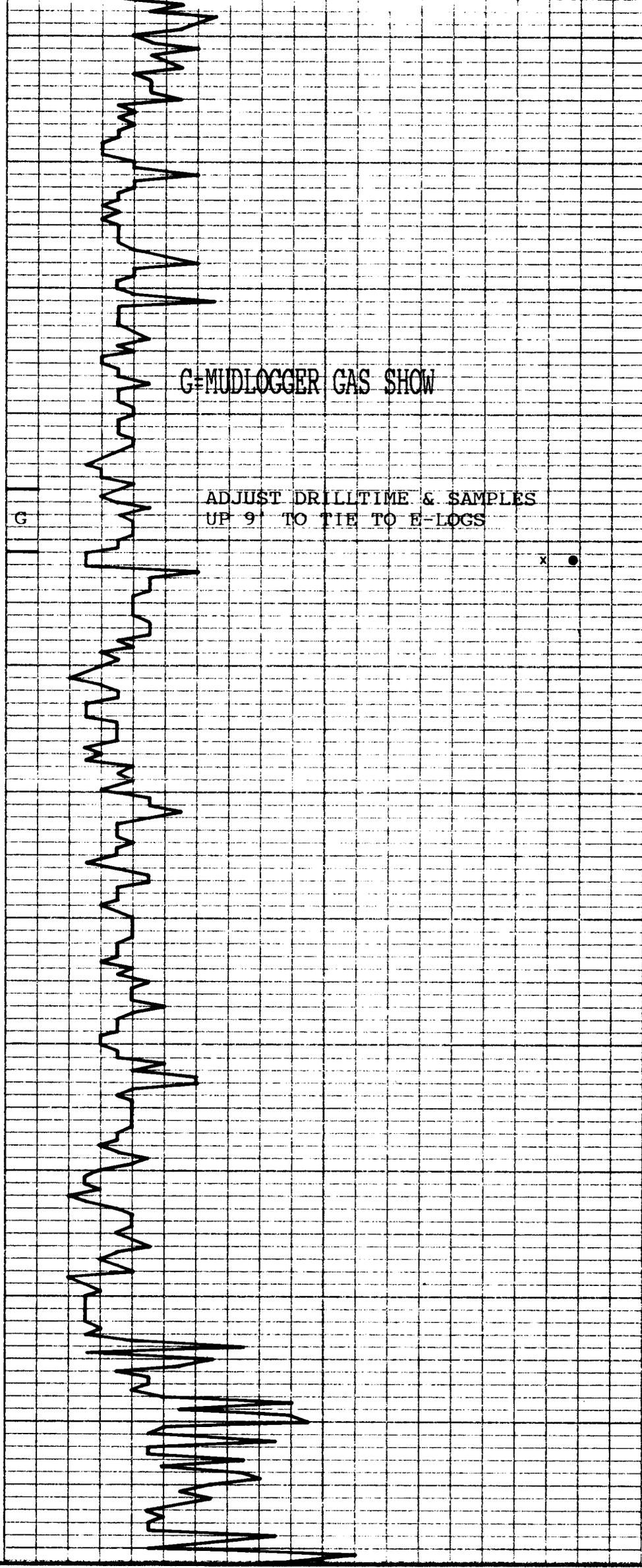
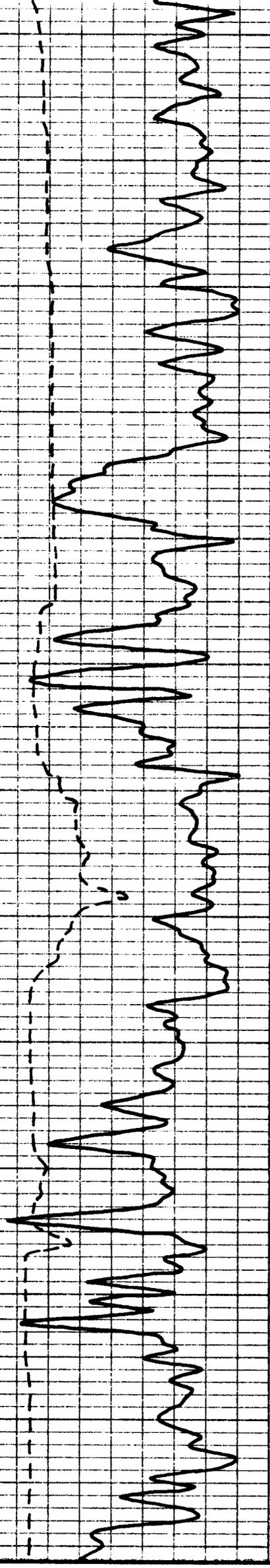
G

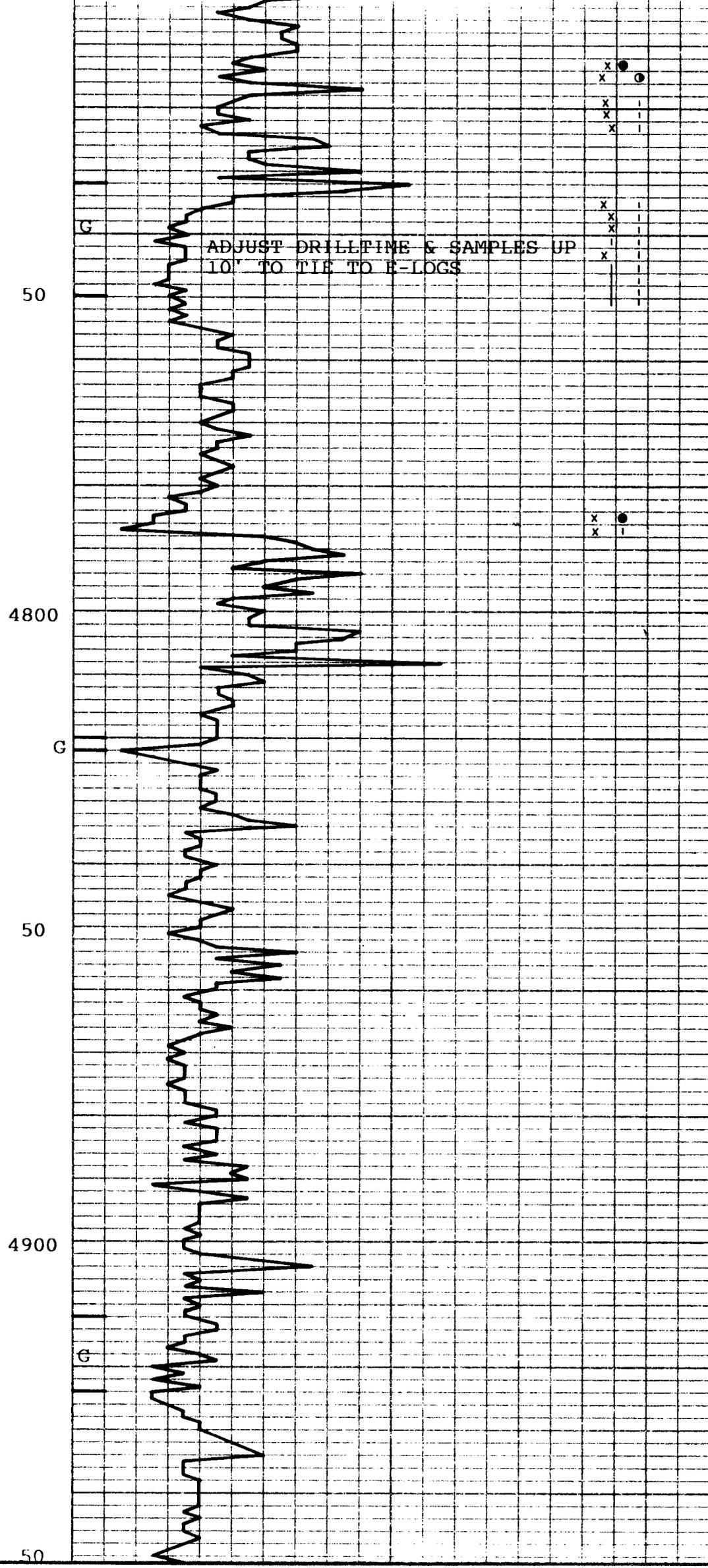
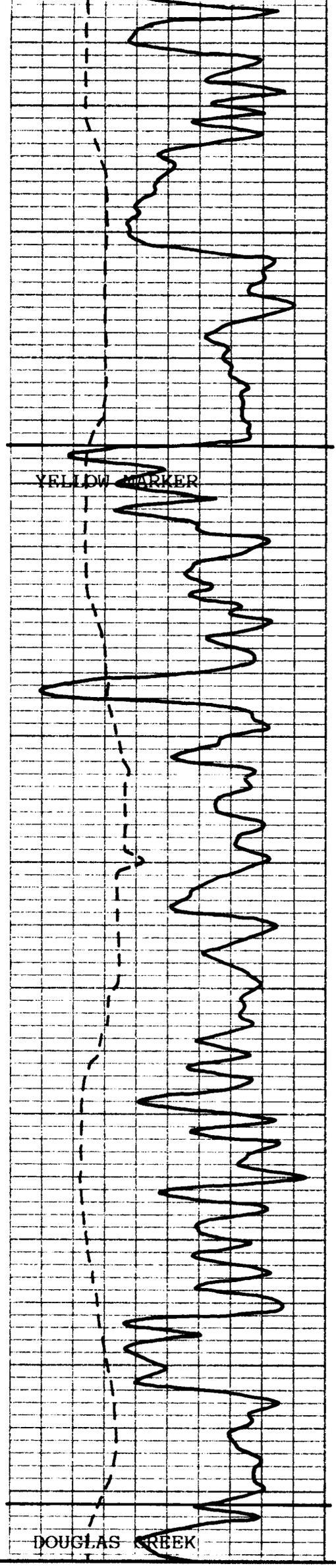
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4600

50

4700





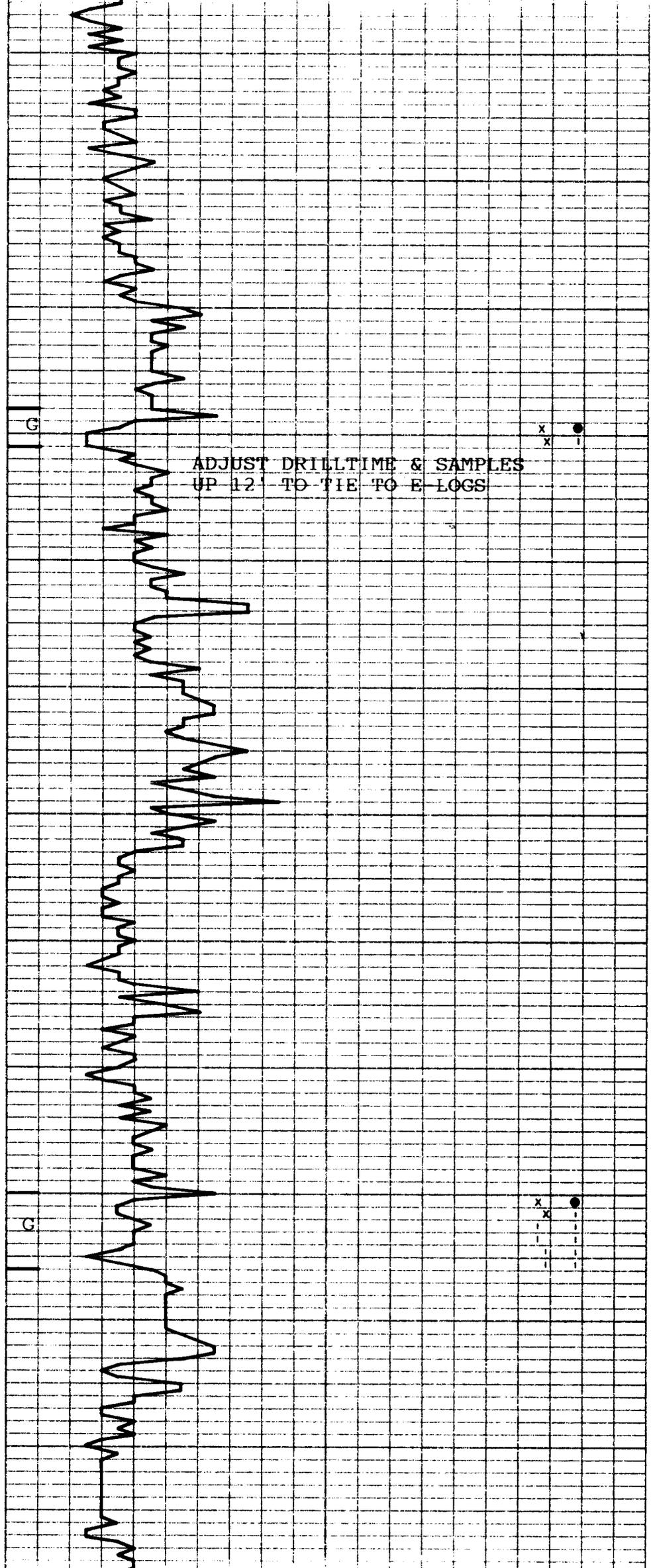


5000

50

5100

50



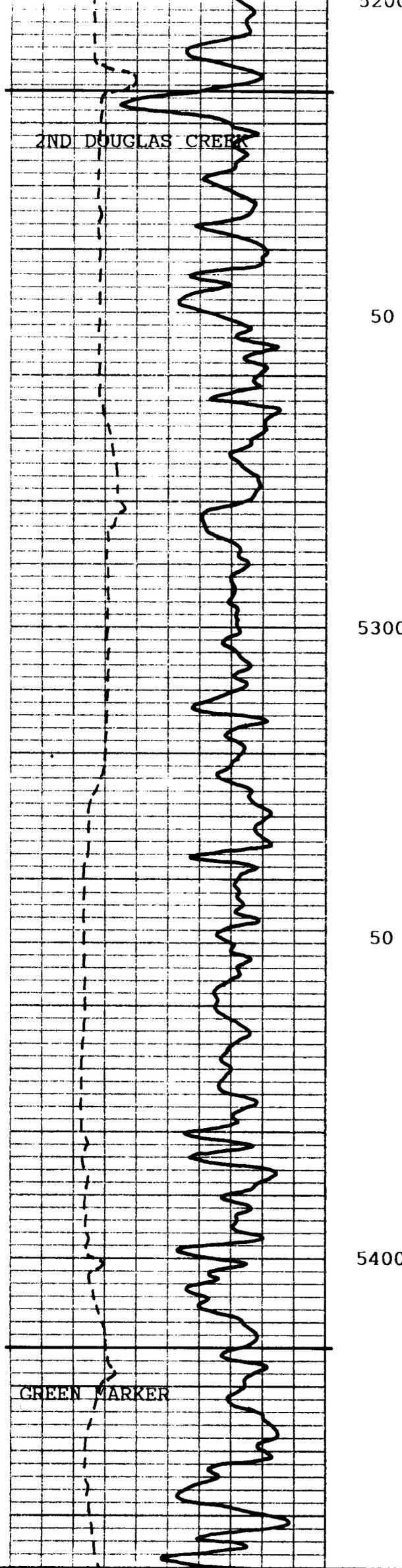
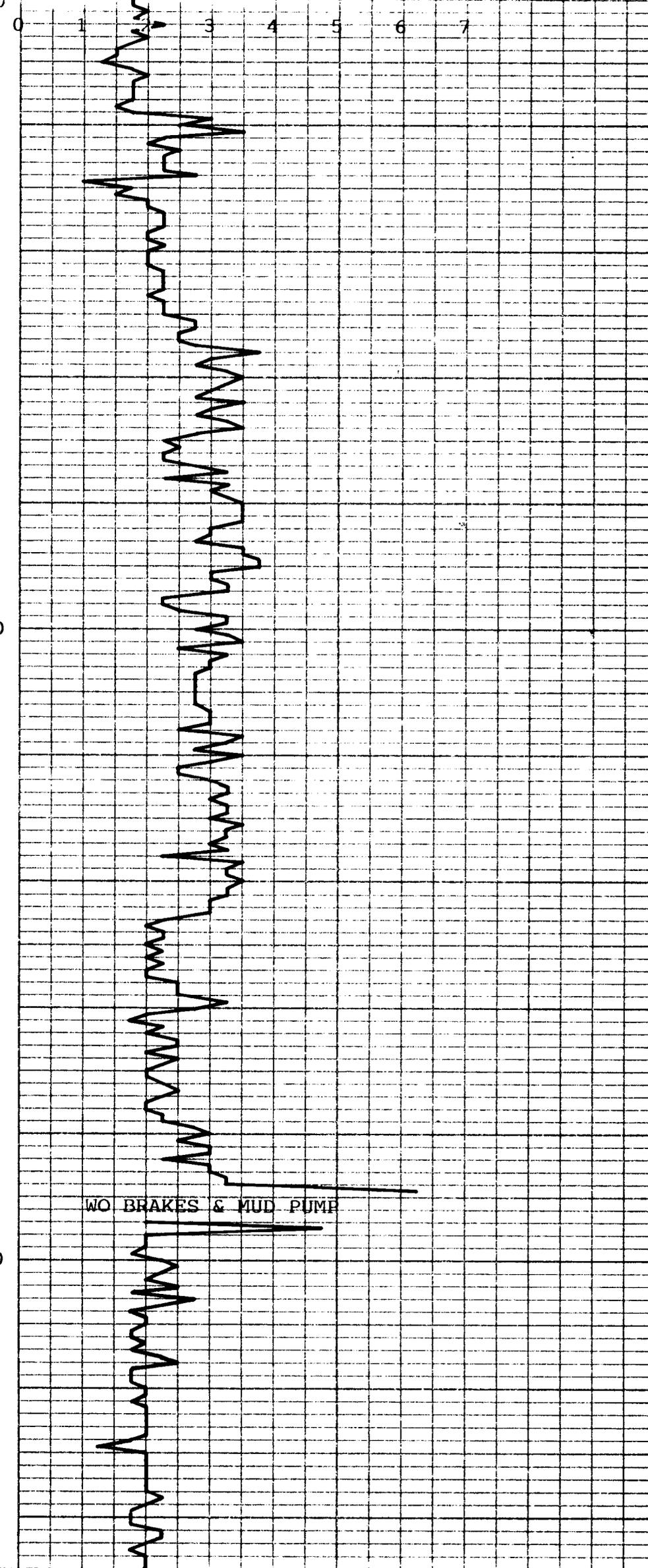
ADJUST DRILLTIME & SAMPLES  
UP 12' TO TIE TO E-LOGS

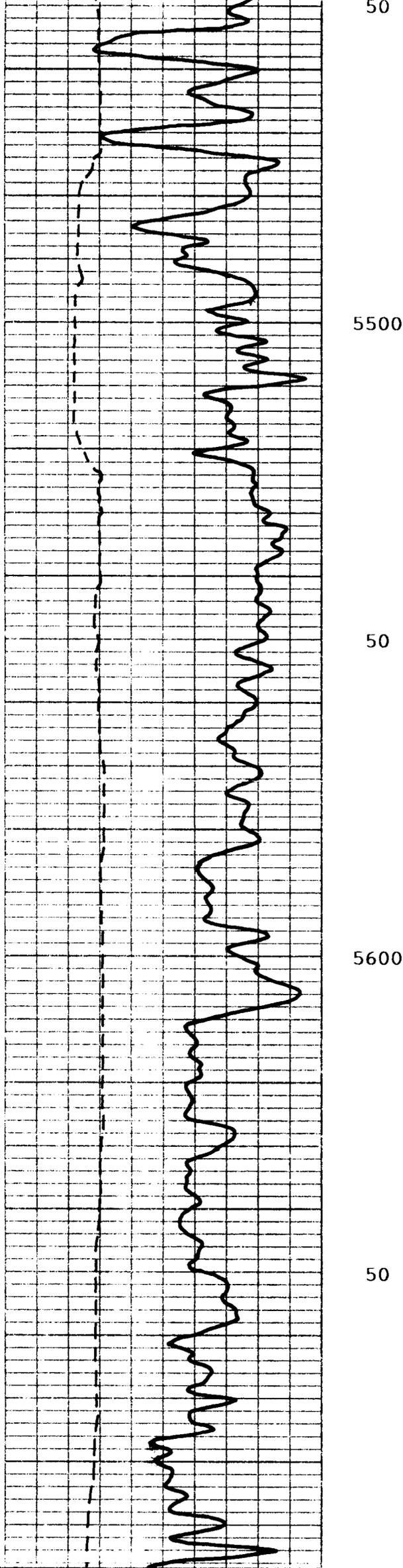
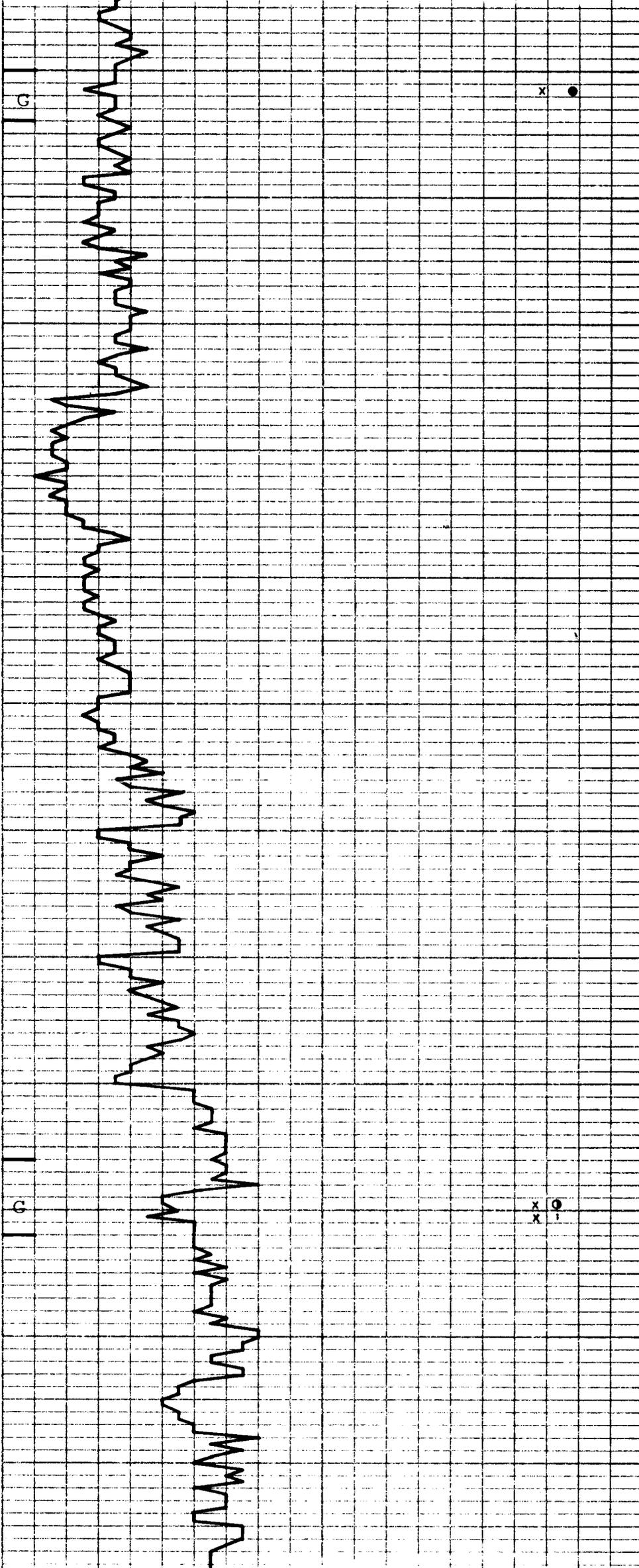
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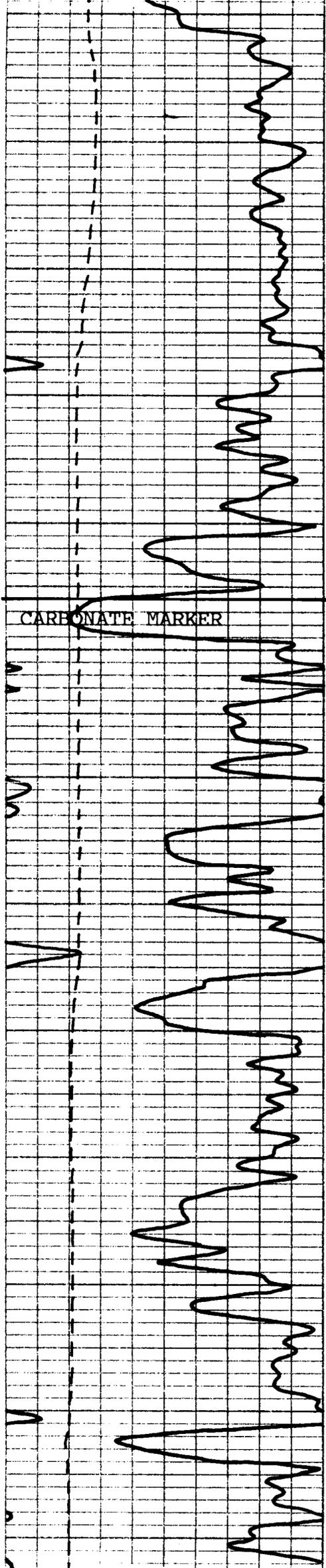
G

x  
x  
i

x  
x  
i







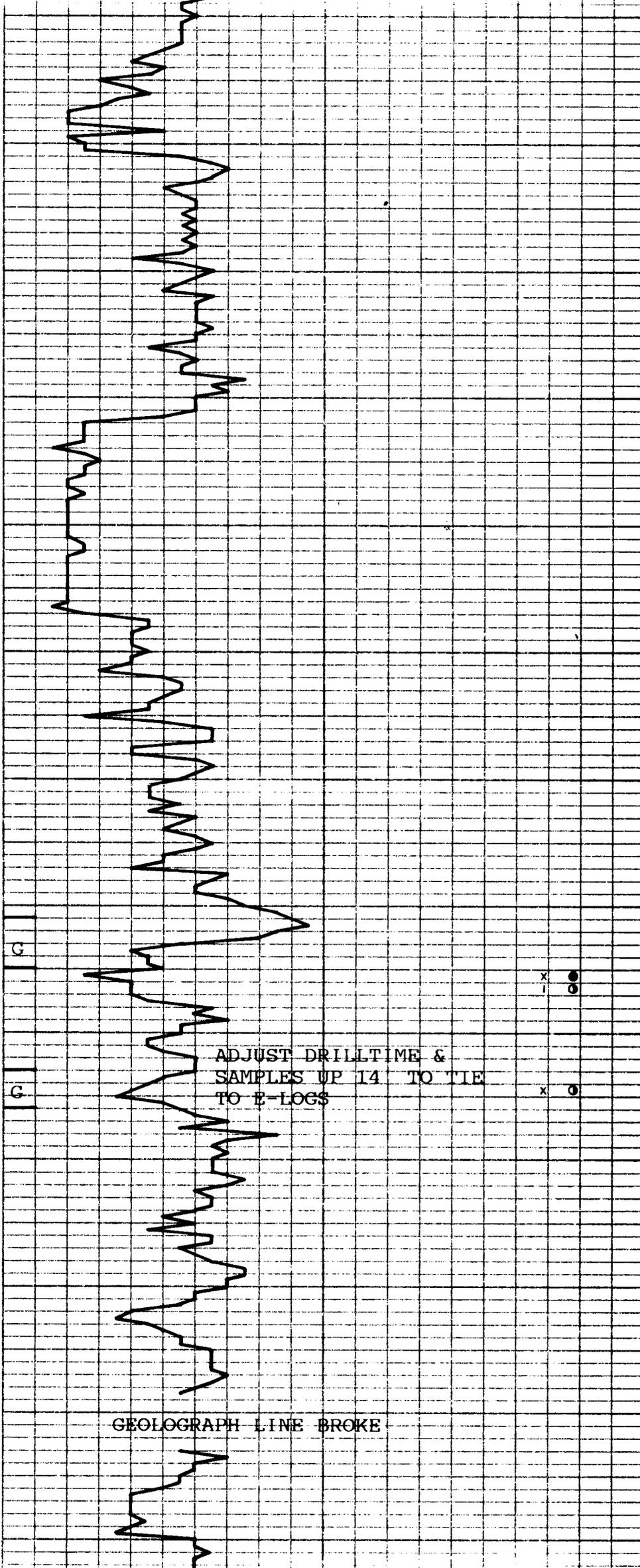
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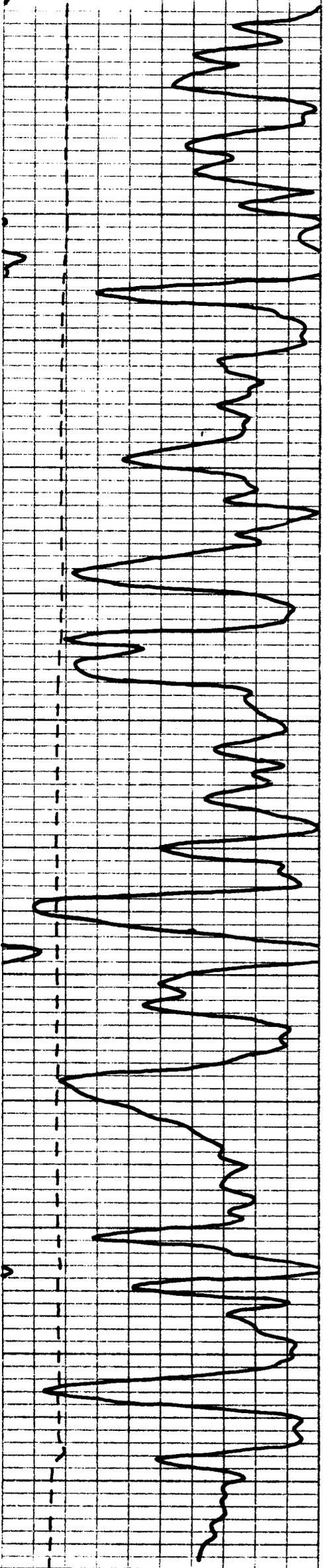
50

5800

50

5900





50

6000

50

6100

50

G=MUDLOGGER GAS SHOW

UTELAND BUTTE LS

6200

INTERPRETATIVE GEOLOGIC & SAMPLE DESCRIPTIONS  
BASED ON SAMPLES CAUGHT BY MUDLOGGERS  
GENERALLY REFER TO DRILL TIME LOG  
SEE REPORT FOR DETAILED DESCRIPTION  
OF SAMPLES, POROSITY & SHOWS

0 GAMMA RAY 150

6 --- CALIPER --- 16

E-LOG TOPS

50

0 1 2 3 4 5 6 7

TOTAL DEPTH DRILLER - 6250'  
TOTAL DEPTH LOGGER - 6247"

NO. ICI 3355

PRINTED IN U.S.A.

RECORDING CHANNEL

GRAPHIC C

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**  
SUBMIT IN DUPLICATE  
(See other side for instructions)  
8 1995

**WELL COMPLETION OR RECOMPLETION REPORT AND LOGGING**

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 653' FSL & 2028' FWL  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-047-32669 DATE ISSUED 6-1-95

15. DATE SPUDDED 9-24-95 18. DATE T.D. REACHED 10-3-95 17. DATE COMPL. (Ready to prod.) 10-26-95 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5018.9' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 6250' 21. PLUG, BACK T.D., MD & TVD 6167' KB 22. IF MULTIPLE COMPL., HOW MANY\* n/a 23. INTERVALS DRILLED BY SFC ROTARY TOOLS SFC CABLE TOOLS n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4528' - 5151' KB Green River 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN 12-4-95 LDI/CNT/GR DLI/GR MUD LOG, CB4GA/MCL 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#	299' KB	12-1/4"	190 sxs Class "G" w/additives	None
5-1/2"	15.5#	6108' KB	7-7/8"	220 sxs Super "G" w/additives	None
				395 sxs 50/50 POZ w/additives	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a					2-7/8"	5338.7' KB	n/a

31. PERFORATION RECORD (Interval, size and number)

Interval	Number of Holes	SPF
5137'-5151'	8	4528'-4536' (4 SPF)
5072'-5074'	2	
5056'-5062'	4	
5006'-5012'	4	
5022'-5024'	4	

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
**Please see attachment.	

33. PRODUCTION

DATE FIRST PRODUCTION 10-26-95 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-26-95	24	n/a		59.56	N.M.	1.67	N.M.

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a		59.56	N.M.	1.67	34

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

35. LIST OF ATTACHMENTS Section 32. Acid, shot, fracture, cement squeeze etc.

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

SIGNED Molly Conrad TITLE Operations Secretary DATE 12-5-95

5. LEASE DESIGNATION AND SERIAL NO. U-67845

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

7. UNIT AGREEMENT NAME n/a

8. FARM OR LEASE NAME Balcron Monument Federal

9. WELL NO. #24-25

10. FIELD AND POOL, OR WILDCAT Undesignated/Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA SE SW Section 25, T8S, R17E

12. COUNTY OR PARISH Uintah 13. STATE Utah

**CONFIDENTIAL**

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.	Green River	1708'	1708'
				Horsebench Sand	2651'	2651'
				2nd Garden Gulch	4178'	4178'
				Yellow Marker	4788'	4788'
				Douglas Creek	4946'	4946'
				2nd Douglas Creek Mkr	5181'	5181'
				Green Marker	5406'	5406'
				Carbonate Marker	5790'	5790'
				Uteland Butte IS	NDE	NDE

**Attachment to Completion Report  
Balcron Monument Federal #24-25  
SE SW Section 25, T8S, R17E  
Uintah County, Utah**

**Depth Interval**

**Amount and Kind of Material Used**

**5137' - 5151'**

**Acidize with 1587 gallons 2% KCL water and also with 300 gallons 15% HCL acid & 1674 gallons 2% KCL water.**

**5056' - 5074'**

**Acidize with 1558 gallons 2% KCL water. Frac with 4800# 20/40 mesh sand with 6006 gallons 2% KCL gelled water. Acidize with 200 15% HCL acid and 3168 gallons 2% KCL water. Frac with 52,300# 20/40 mesh sand and 86,520# 16/30 mesh sand with 34,272 gallons 2% KCL gelled water.**

**5006' - 5024'**

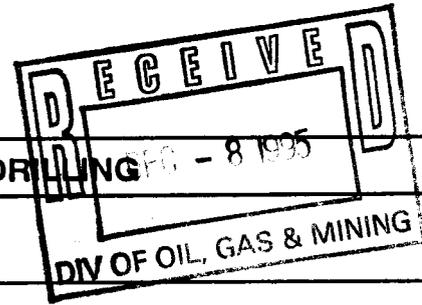
**Acidize with 500 gallons 15% HCL acid and 1764 gallons 2% KCL water.**

**4528' - 4536'**

**Frac with 50,260# 16/30 mesh sand and 15,078 gallons 2% KCL gelled water. Acidize with 2016 gallons 2% KCL water.**

**/Mc**

**12-5-95**



**REPORT OF WATER ENCOUNTERED DURING DRILLING**

1. Well name and number: Balcron Monument Federal #24-25

API number: 43-047-32669

2. Well Location: QQ SE SW Section 25 Township 8S Range 17E County Uintah

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

Address: 1601 Lewis Avenue  
Billings, MT 59102

Phone: (406) 259-7860

4. Drilling contractor: Union Drilling

Address: Drawer 40  
Buckhannon, WV 26201

Phone: (304) 472-4610

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

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

6. Formation tops: Please see completion report

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

Date: 12-5-95

Name & Signature: Molly Conrad *Molly Conrad*

Title: Operations Secretary

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SURFACE: SE SW Section 25, T8S, R17E  
 TD: 653' FSL & 2028' FWL

5. Lease Designation and Serial No.  
 U-67845

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

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

8. Well Name and No.  
 Balcron Monument Fed. #24-25

9. API Well No.  
 43-047-32669

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

11. County or Parish, State  
 Uintah County, Utah

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

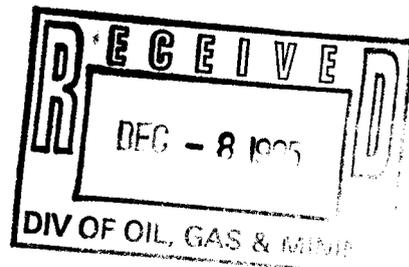
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back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

Onshore Order #7 (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

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

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

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



**FOR RECORD ONLY**

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

Signed Molly Conrad Title Operations Secretary  
 (This space for Federal or State office use)

Date 12-5-95

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

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

Expires: March 31, 1993  
 5. Lease Designation and Serial No.

U-67845

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcon Monument Fed. #24-25

9. API Well No.

43-047-32669

10. Field and Pool, or Exploratory Area

Undesignated/Green River

11. County or Parish, State

Uintah County, Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

3. Address and Telephone No.

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

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

SURFACE: SE SW Section 25, T8S, R17E  
 TD: 653' FSL & 2028' FWL

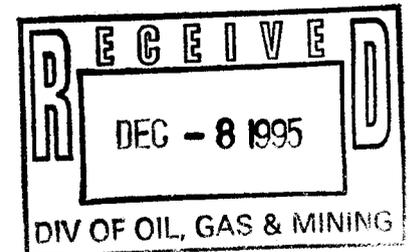
**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Site 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 or Well Completion or Recompletion Report and Log form)

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

Attached is the Site Security Diagram for this well.



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

Signature: Molly Conrad Title: Operations Secretary  
 (This space for Federal or State office use)

Date: 12-5-95

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

Title \_\_\_\_\_

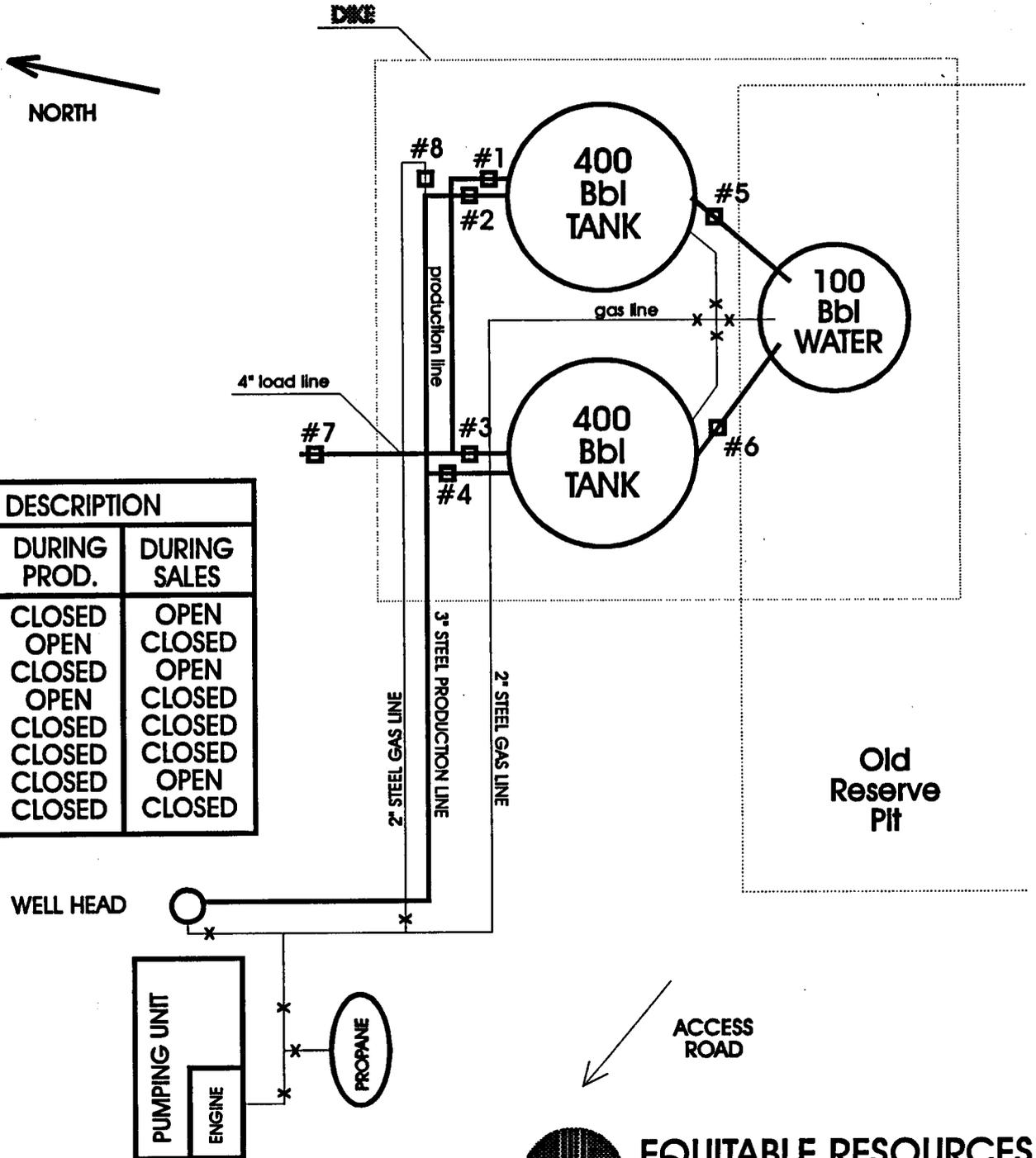
Date \_\_\_\_\_

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.

**Equitable Resources Energy Company**  
**Balcron Monument Federal 24-25**  
**Production Facility Diagram**

Balcron Monument Federal 24-25  
 SE SW Sec. 25, T8S, R17E  
 Uintah County, Utah  
 Federal Lease #U-67845  
 653' FSL, 2028' FWL



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN
VALVE #8	CLOSED	CLOSED

DIAGRAM NOT TO SCALE



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



**EQUITABLE RESOURCES  
ENERGY COMPANY**

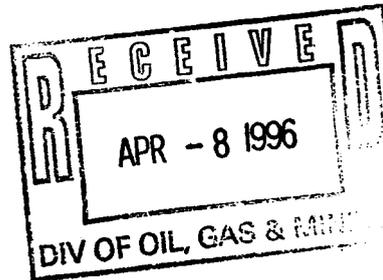
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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

March 22, 1996

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



Gentlemen:

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

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

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

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

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL  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  
OO, Sec., T., R., M.:

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

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

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

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

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

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

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

\* Must be accompanied by a cement verification report.

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

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

APR - 8 1996

13. Name & Signature: Bobbie Schuman  
Bobbie Schuman

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

(This space for State use only)

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

Routing:

1	DEB 7-SJ
2	DEB 58-FILE
3	VLD (GIL) <i>[initials]</i>
4	RJE <i>[initials]</i>
5	LEB <i>[initials]</i>
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>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
		<u>BILLINGS MT 59102-4126</u>
	phone <u>(406) 259-7860</u>	phone <u>(406) 259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>047-32669</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**

- Y 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.
- Y 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ *(4-10-96)*
- Y 6. Cardex file has been updated for each well listed above. *(4-11-96)*
- Y 7. Well file labels have been updated for each well listed above. *(4-11-96)*
- Y 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)*
- Y 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**

- Y 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) Seleo Ins. Co. (Bond Rider In Progress)

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                    19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 4/26/96
- DTS 2. Copies of documents have been sent to State Lands for changes involving State leases.  
sent to Ed Boucher - Trust Lands

**FILMING**

- WDR 1. All attachments to this form have been microfilmed. Date: May 20 1996.  
(refilmed 8-27-96)

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

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT  (Highlight Changes)

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

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

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

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

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

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

UTAH

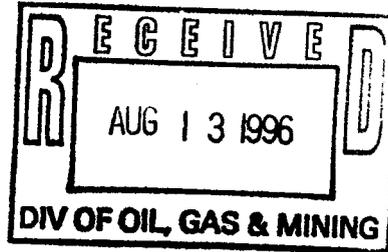
Balcron Monument Fed. #14-12J	Monument Butte	SW SW	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521-A	43-013-31411	660' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #14-15	Monument Butte	SW SW	15	9S	16E	Duchesne	UT	PND	Green River	U-017985	43-013-31381	772' FSL, 543' FWL	Vernal	
Balcron Monument Fed. #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, 1800' 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	17E	Uintah	UT	Oil	Green River	U-64917	43-047-32711	1980' FNL, 1980' FWL	Vernal	
Balcron Monument Fed. #22-22-8-17Y	Monument Butte	SE NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-67845	43-013-31538	1945' FNL, 2030' FWL	Vernal	
Balcron Monument Fed. #22-5	Monument Butte	SE NW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31384	1853' FNL, 1980' FWL	Vernal	Jonah
Balcron Monument Fed. #23-11	Monument Butte	NE SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31369	1787' FSL, 2147' FWL	Vernal	Jonah
Balcron Monument Fed. #23-15	Monument Butte	NE SW	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31373	1724' FSL, 2078' FWL	Vernal	Jonah
Balcron Monument Fed. #23-24-8-17		NE SW	24	8S	17E	Uintah	UT	PND	Green River				Vernal	
Balcron Monument Fed. #23-25	Undesignated	NE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32529	1927' FSL, 2139' FWL	Vernal	
Balcron Monument Fed. #23-5	Monument Butte	NE SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-31383	1816' FSL, 2057' FWL	Vernal	Jonah
Balcron Monument Fed. #24-12J	Monument Butte	SE SW	12	9S	16E	Duchesne	UT	Oil	Green River	U-035521-A	43-013-31409	539' FSL, 1777' FWL	Vernal	Jonah
Balcron Monument Fed. #24-25	Undesignated	SE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32669	653' FSL, 2028' FWL	Vernal	
Balcron Monument Fed. #24-5	Monument Butte	SE SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31375	765' FSL, 2243' FWL	Vernal	Jonah
Balcron Monument Fed. #24-6	Monument Butte	SE SW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31363	504' FSL, 1613' FWL	Vernal	Jonah
Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
Balcron Monument Fed. #31-1J	Monument Butte	NW NE	1	9S	16E	Duchesne	UT	Oil	Green River	U-33992	43-013-31413	660' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #31-25	Undesignated	NW NE	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32530	660' FNL, 1980' FEL	Vernal	
Balcron Monument Fed. #31-7J	Monument Butte	NW NE	7	9S	17E	Duchesne	UT	WIW	Green River	U-44426	43-013-31405	831' FNL, 1782' FEL	Vernal	Jonah
Balcron Monument Fed. #32-11	Monument Butte	SW NE	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31386	2059' FNL, 1763' FEL	Vernal	Jonah
Balcron Monument Fed. #32-12J	Monument Butte	SW NE	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521	43-013-31419	1805' FNL, 2139' FEL	Vernal	Jonah
Balcron Monument Fed. #32-14J	Monument Butte	SW NE	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31490	1980' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #32-15	Monument Butte	SW NE	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31368	1868' FNL, 1993' FEL	Vernal	Jonah
Balcron Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31465	1880' FNL, 1980' FEL	Vernal	Beluga



**EQUITABLE RESOURCES**  
ENERGY COMPANY

**WESTERN REGION**

1601 Lewis Avenue  
Billings, MT 59102



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

August 12, 1996

State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple  
Salt Lake City, UT 84114

Gentlemen:

We would like to take information on the following wells out of  
CONFIDENTIAL or tight hole status:

Monument Federal #13-25  
NW SW Section 25, T8S, R17E

Monument Federal #24-25  
SE SW Section 25, T8S, R17E

Monument Federal #34-25  
SW SE Section 25, T8S, R17E

If you have any questions, please do not hesitate to give me a call at  
(406) 259-7860, extension 240.

Sincerely,

**Bobbie Schuman**  
Regulatory and  
Environmental Specialist

/hs

cc: Bureau of Land Management (Vernal, UT)

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, Aliottee 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

CO, Sec., T., R., M.:

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)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Date of work completion 9-30-97

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

\* Must be accompanied by a cement verification report.

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

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

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 10 1997

13.

Name & Signature:

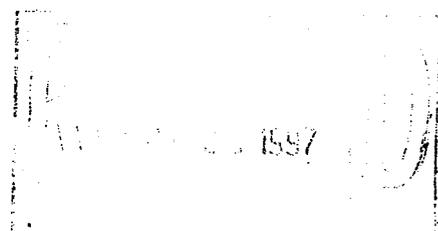
*Chris Potter*

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date:

9/30/97

This space for State use only)



INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ HENDEL FEDERAL #1-17	NENW 179S 19E	UINTA	UT	PARIETTE BENCH	43-047-30059-00	UTU017991	
✓ HENDEL FEDERAL #3-17	SWNW 179S 19E	UINTA	UT	PARIETTE BENCH	43-047-30074-00	UTU017991	
PARIETTE BENCH #4 (SWD)	SWSE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-15681-00	UTU017992	8910069630
✓ PARIETTE BENCH FEDER #14-5	SWSW 5 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31123-00	UTU017992	
✓ PARIETTE BENCH FEDER #41-7	NENE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31584-00		8910069630
✓ PARIETTE BENCH FEDER #32-6	SWNE 6 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31554-00	UTU50385	
✓ PARIETTE BENCH FEDER #43-6	NESE 6 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31616-00	UTU017992	
✓ PARIETTE BENCH UNIT #2	SWNE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-15680-00		8910069630
✓ FEDERAL #22-25	SENW 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32008-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED #24-25	SE SW 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32669-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED #34-25	SW SE 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32670-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #21-25	NENW 258S 17E	DUCHESNE	UT	UNDESIGNATED (H)	43-047-32528-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #12-25	SWNW 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32526-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #23-25	NESW 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32529-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #31-25	NWNE 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32530-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #32-25	SWNE 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32524-00	UTU67845	UTU76189X
✓ MONUMENT BUTTE FED. #33-25	NWSE 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32525-00	UTU67845	UTU76189X
✓ MONUMENT FEDERAL #11-25	NWNW 258S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32455-00	UTU67845	UTU76189X
✓ PARIETTE DRAW FED. #8-23	SE NE 238S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32676-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #9-23	NESE 238S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-31543-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #12-24	SWNW 248S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32713-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #13-24	NWSW 248S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32546-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #14-24	SWSW 248S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32645-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #23-24-8-17	NE SW 248S 17E	UINTAH	UT	MONUMENT BUTTE (H)	43-047-32710-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #24-24	SESW 248S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32646-00	UTU45431	UTU76189X
✓ PARIETTE FEDERAL #34-24	SWSE 248S R17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32506-00	UTU45431	UTU76189X



**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

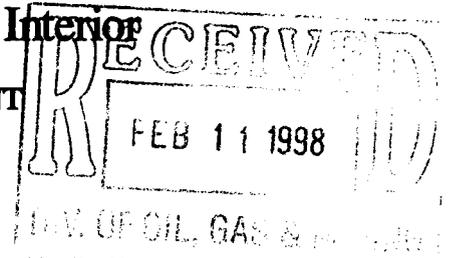
Pages Attached - Including Cover Sheet *2.*

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

February 10, 1998

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

Re: Humpback (Green River) Unit  
Uintah County, Utah

Gentlemen:

On February 10, 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 Humpback (Green River) Unit, Uintah 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 February 10, 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 Humpback (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Humpback (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 - Humpback (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron/Fluid Chron

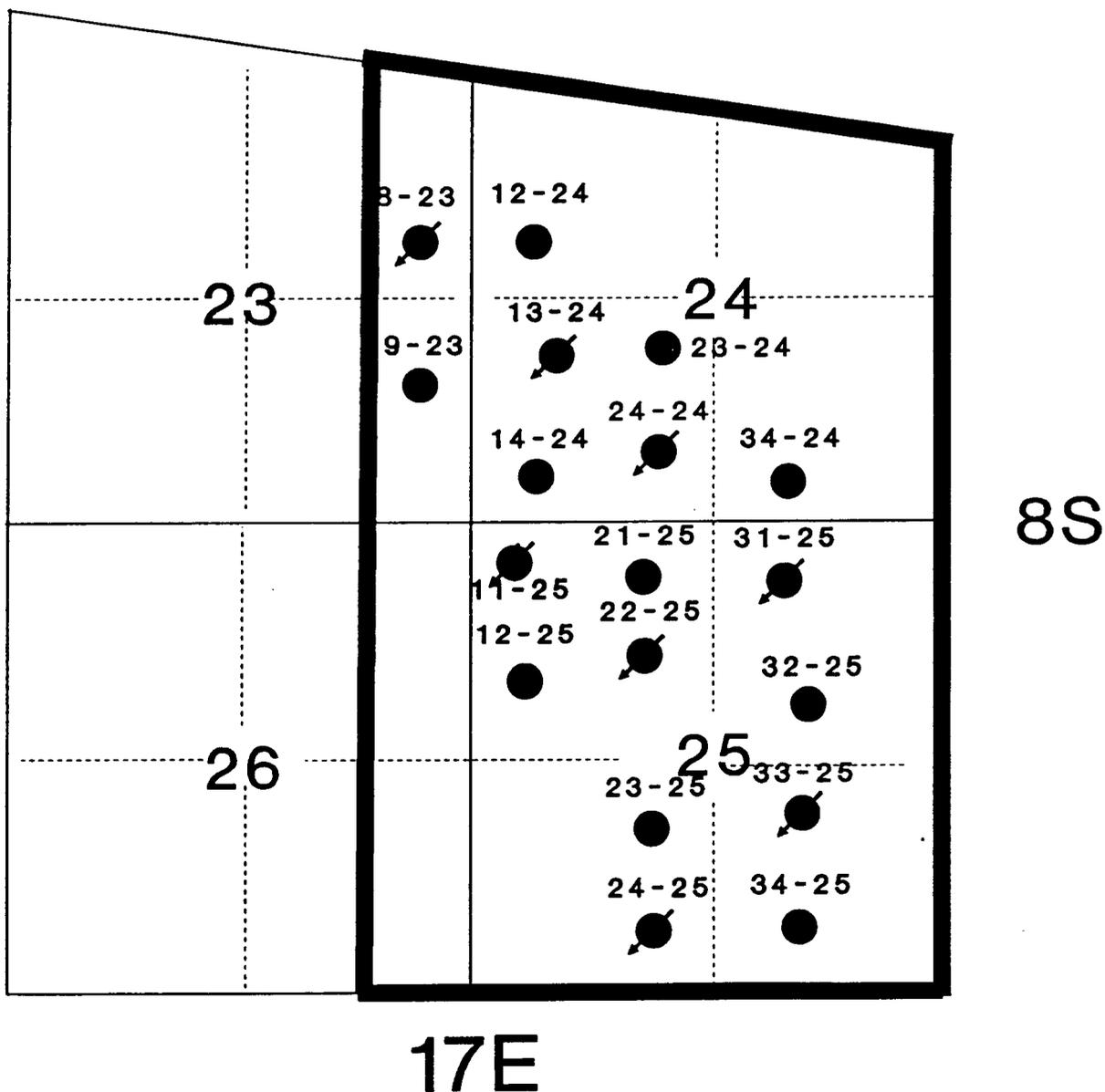
U-931:TAThompson:tt:2/10/98



# HUMPBACK (GREEN RIVER) UNIT

## Uintah County, Utah

EFFECTIVE: JANUARY 1, 1997



— UNIT OUTLINE (UTU76189X)

1,468.47 ACRES

SECONDARY  
ALLOCATION  
FEDERAL 100.00%

**OPERATOR CHANGE WORKSHEET**

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

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

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

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

<p><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'S</u>                  Phone: <u>(435) 722-5103</u> Phone: <u>(406) 628-4164</u>                  Account no. <u>N5160</u> Account no. <u>N9890</u></p>
--

**WELL(S)** attach additional page if needed: **HUMPBAC (GREEN RIVER) UNIT**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-047-32669</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(rec'd 12-10-97)*
- lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(rec'd 10-13-97)*
- 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: \_\_\_\_\_
- lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- lec 5. Changes have been entered in the **Oil and Gas Information System (3270)** for each well listed above. *(2-13-98)*
- lec 6. **Cardex** file has been updated for each well listed above. *(2-18-98)*
- lec 7. Well **file labels** have been updated for each well listed above. *(2-18-98)*
- lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(2-13-98)*
- lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- See* 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.  
*12053 previously assigned "Humpback (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* 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- See* 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**

- 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.
- 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**

- VS* 1. All attachments to this form have been **microfilmed**. Today's date: 3.20.98.

**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**

980211 BLM/SL Aprv. eH. 2-10-98.

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 97

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 23-25			GRRV			467845	Humpback (GP) Unit	
4304732529	12053	08S 17E 25						
MONUMENT FEDERAL 31-25			GRRV			"	"	
4304732530	12053	08S 17E 25						
PARIETTE FEDERAL 13-24			GRRV			445431	"	
4304732546	12053	08S 17E 24						
PARIETTE FEDERAL 14-24			GRRV			"	"	
4304732645	12053	08S 17E 24						
PARIETTE FEDERAL 24-24			GRRV			"	"	
4304732646	12053	08S 17E 24						
BALCRON MONUMENT FEDERAL 24-25			GRRV			467845	"	
4304732669	12053	08S 17E 25						
BALCRON MONUMENT FEDERAL 34-25			GRRV			"	"	
4304732670	12053	08S 17E 25						
PARIETTE DRAW FEDERAL 8-23			GRRV			445431	"	
4304732676	12053	08S 17E 23						
PARIETTE FEDERAL 23-24			GRRV			"	"	
4304732710	12053	08S 17E 24						
PARIETTE FEDERAL 12-24			GRRV			"	"	
4304732713	12053	08S 17E 24						
MONUMENT FEDERAL 43-10-9-16			GRRV					
4301331723	12065	09S 16E 10						
MONUMENT FEDERAL 34-31-8-16			GRRV					
4301331715	12067	08S 16E 31						
MONUMENT FEDERAL 33-10-9-16			GRRV					
4301331722	12087	09S 16E 10						
<b>TOTALS</b>								

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

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

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

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

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

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

---ooOoo---

IN THE MATTER OF THE  
APPLICATION OF INLAND  
PRODUCTION COMPANY FOR  
ADMINISTRATIVE APPROVAL OF  
THE PARIETTE FEDERAL 14-24,  
23-24, 34-24, 12-24, 9-23 AND THE  
BALCRON MONUMENT FEDERAL  
32-25, 21-25, 12-25, 23-25 AND 24-25  
WELLS LOCATED IN SECTIONS 23,  
24 AND 25, TOWNSHIP 8 SOUTH,  
RANGE 17 EAST, S.L.M., UINTAH  
COUNTY, UTAH, AS CLASS II  
INJECTION WELLS

:  
:  
:  
:  
:

NOTICE OF AGENCY  
ACTION

CAUSE NO. UIC-212

*UIC-212.10*

---ooOoo---

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

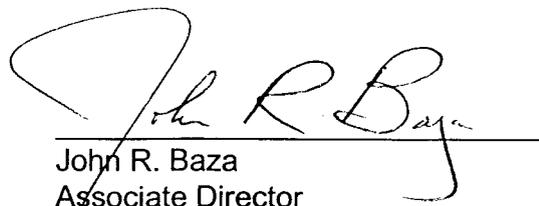
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Pariette Federal 14-24, 23-24, 34-24, 12-24, 9-23 and the Balcron Monument Federal 32-25, 21-25, 12-25, 23-25 and 24-25 wells, located in Sections 23, 24 and 25, Township 8 South, Range 17 East, S.L.M., Uintah County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Green River Formation will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled 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 6th day of May 1998.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

May 6, 1998

Newspaper Agency Corporation  
Legal Advertising  
PO Box 45838  
Salt Lake City, Utah 84145

Re: Notice of Agency Action - Cause No. UIC-212

Gentlemen:

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, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

A handwritten signature in cursive script that reads "Lorraine Platt".

Lorraine Platt  
Secretary

Enclosure



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

Lowell P. Braxton  
Division Director

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

May 6, 1998

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066-9998

Re: Notice of Agency Action - Cause No. UIC-212

Gentlemen:

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, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

*Lorraine Platt*

Lorraine Platt  
Secretary

Enclosure

**Inland Production Company  
Pariette Federal 14-24, 23-24, 34-24, 12-24, 9-23  
and the Balcron Monument Federal 32-25, 21-25, 12-25, 23-25 and 24-25 Wells  
Cause No. UIC-212**

Publication Notices were sent to the following:

Inland Production Company  
410 17th Street, Suite 700  
Denver, Colorado 80202

Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Newspaper Agency Corporation  
Legal Advertising  
P.O. Box 45838  
Salt Lake City, Utah 84145

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

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

U.S. Environmental Protection Agency  
Region VIII  
Attn. Dan Jackson  
999 18th Street  
Denver, Colorado 80202-2466

  
\_\_\_\_\_  
Lorraine Platt  
Secretary  
May 6, 1998

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**U-67845**

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

7. If Unit or CA, Agreement Designation  
**HUMPBACK (GR RVR)**

8. Well Name and No.  
**BALCRON MONUMENT FEDERAL 24-25**

9. API Well No.  
**43-047-32669**

10. Field and Pool, or Exploratory Area  
**PARIETTE DRAW**

11. County or Parish, State  
**UINTAH COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**0653 FSL 2028 FWL                      SE/SW Section 25, T08S R17E**

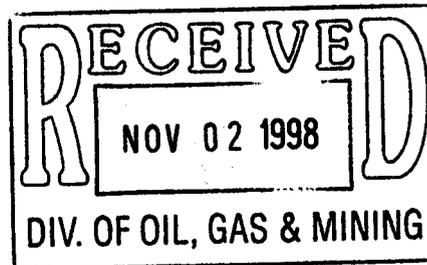
12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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

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

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

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



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

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

(This space for Federal or State office use)

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

Conditions of approval, if any:  
**CC: UTAH DOGM**

# Inland Production Company Site Facility Diagram

Monument Federal 24-25

SE/SW Sec. 25, T8S, 17E

Uintah County

May 12, 1998

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

**Production Phase:**

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

**Sales Phase:**

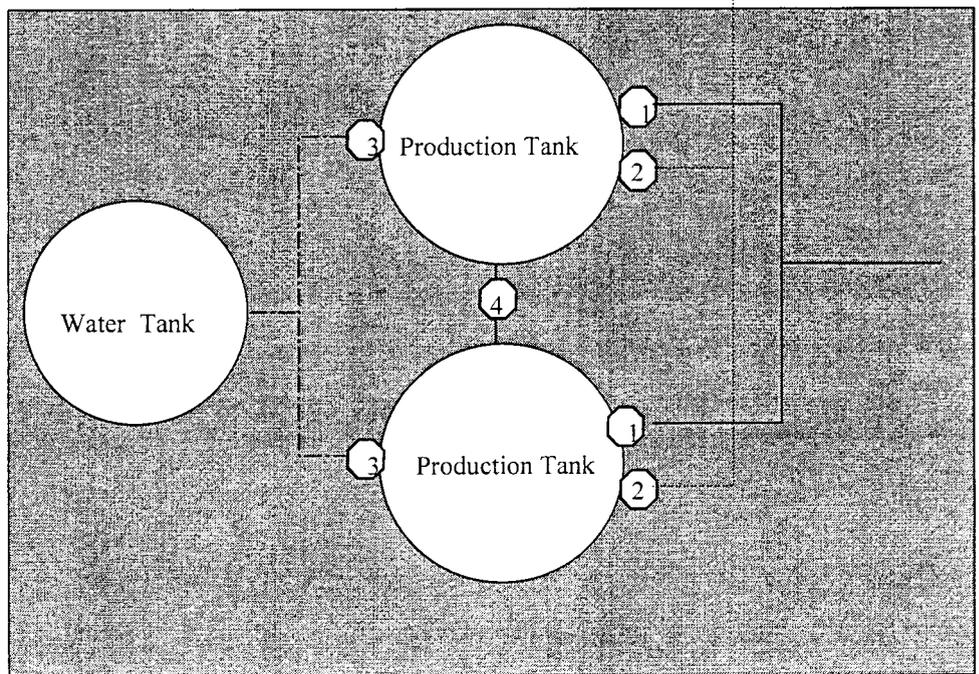
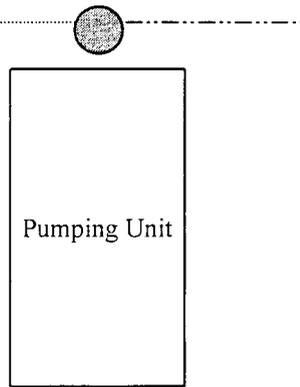
- 1) Valves 1, 2, 4, 5 sealed closed
- 2) Valves 1 open

**Draining Phase:**

- 1) Valve 3 open

Diked Section

Gas Sales Meter



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

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004**

<b>FROM: (Old Operator):</b> N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO: ( New Operator):</b> N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
---	--

**CA No.**

**Unit:**

**HUMPSBACK (GREEN RIVER)**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
PARIETTE DRAW FED 9-23	23	080S	170E	4304731543	12053	Federal	WI	A
PARIETTE DRAW FED 8-23	23	080S	170E	4304732676	12053	Federal	OW	P
PARIETTE FED 34-24	24	080S	170E	4304732506	12053	Federal	WI	A
PARIETTE FED 13-24	24	080S	170E	4304732546	12053	Federal	OW	P
PARIETTE FED 14-24	24	080S	170E	4304732645	12053	Federal	WI	A
PARIETTE FED 24-24	24	080S	170E	4304732646	12053	Federal	OW	P
PARIETTE FED 23-24	24	080S	170E	4304732710	12053	Federal	WI	A
PARIETTE FED 12-24	24	080S	170E	4304732713	12053	Federal	WI	A
FEDERAL 22-25	25	080S	170E	4304732008	12053	Federal	OW	P
MONUMENT FED 11-25	25	080S	170E	4304732455	12053	Federal	OW	P
MON FED 32-25	25	080S	170E	4304732524	12053	Federal	WI	A
BALCRON MON FED 33-25	25	080S	170E	4304732525	12053	Federal	OW	P
MON FED 12-25	25	080S	170E	4304732526	12053	Federal	WI	A
BALCRON MON FED 21-25	25	080S	170E	4304732528	12053	Federal	WI	A
MONUMENT FED 23-25	25	080S	170E	4304732529	12053	Federal	WI	A
MONUMENT FED 31-25	25	080S	170E	4304732530	12053	Federal	OW	P
BALCRON MON FED 24-25	25	080S	170E	4304732669	12053	Federal	OW	P
BALCRON MON FED 34-25	25	080S	170E	4304732670	12053	Federal	WI	A
HUMPSBACK U 1A-26-8-17	26	080S	170E	4304734160	12053	Federal	OW	P
HUMPSBACK U 8-26-8-17	26	080S	170E	4304734161	12053	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



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

“ARTICLE ONE – The name of the corporation is Newfield Production Company.”

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>

IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

NOV 19 2009

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

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

RE: Additional Well: Humpback Area Permit  
UIC Permit No. UT20852-00000  
Well ID: UT20852-08504  
Balcron Monument Federal No. 24-25-8-17  
653' FSL & 2,028' FWL  
SE SW Sec. 25 T8S-R17E  
Uintah County, Utah  
API #43-047-32669

Dear Mr. Sundberg:

Newfield Production Company's (Newfield) request to convert the former Green River Formation oil well Balcron Monument Federal No. 24-25-8-17 to an enhanced recovery injection well under the Humpback Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of Humpback Area Permit No. UT20852-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,998 feet and the top of Wasatch Formation, estimated at 6,317 feet.

**RECEIVED**

**DEC 03 2009**

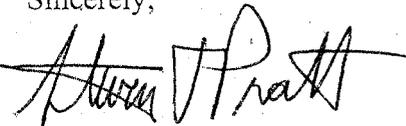
**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject into Balcron Monument Federal No. 24-25-8-17, EPA requires Newfield submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and an EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days during which time a Radioactive Traced Survey (RTS) is required.

The initial Maximum Allowable Injection Pressure (MAIP) for Balcron Monument Federal No. 24-25-8-17 was determined to be 1,040 psig. UIC Area Permit UT20852-00000 also provides the opportunity for the Permittee to request a change in the MAIP based upon results of a Step Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-(800)-227-8917 (Ext. 312-6174). Please submit the required data to Attention: Emmett Schmitz at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,



for

Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Conversion Schematic: Balcron Monument Federal No. 24-25-8-17  
P&A Schematic: Balcron Monument Federal No. 24-25-8-17  
EPA Form No. 7520-13 (Plugging Record)

cc: Permit Letter:  
Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Irene Cuch, Vice-Chairwoman  
Ronald Groves, Councilman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Francés Poowegup, Councilwoman

Daniel Picard, Superintendent  
Uintah & Ouray Indian Agency  
Bureau of Indian Affairs

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**

**1595 WYNKOOP STREET**

**DENVER, CO 80202-1129**

**Phone 800-227-8917**

**http://www.epa.gov/region08**

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit No: UT20852-00000**

The Humpback Final UIC Area Permit No. UT20852-00000, effective October 8, 1998 authorizes Class II authorized fluid injection for the purpose of enhanced oil recovery in the Monument Butte Field. On August 19, 2009, Newfield Production Company (Newfield) notified the Director concerning the following additional enhanced recovery injection well:

Balcron Monument Federal No. 24-25-8-17

EPA Well ID Number: UT20852-08504

SE SW (653' FSL & 2028' FWL) Section 25 – T8S – R17E

Uintah County, Utah

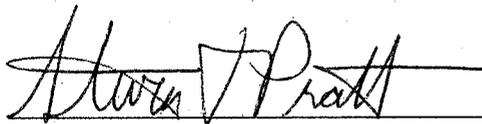
API No. 43-047-32669

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20852-00000 authorizes the Permittee to construct and/or convert, or plug and abandon additional enhanced recovery injection wells within the Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Area Permit No. UT20852-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: NOV 19 2009

*for*   
\_\_\_\_\_  
**Stephen S. Tuber**

\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: Balcron Monument Federal No. 24-25-8-17  
EPA Well ID Number: UT20852-08504

### Prior to Commencing Injection Operations, the Permittee shall submit the following information for Balcron Monument Federal No. 24-25-8-17:

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (internal) Mechanical Integrity test (MIT).

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the Confining Zone. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the Permit, an extension of the period of Limited Authorization to Inject may be requested.

A successful RTS will be considered a valid confirmation that cementing records show adequate cement to prevent the upward migration of injection fluids from the injection zone at injection pressures up to the MAIP, until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA;
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*);
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive;
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, which may affect the cement integrity of the well, and
- e) If the Director requests that a RTS be run for any reason.

A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a Temperature Log, Oxygen Activation Log, or Noise Log at a frequency no less than once every five years following the last successful test.

Authorization for Additional Well: UIC Area Permit UT20852-00000  
Well: Balcron Monument Federal No. 24-25-8-17 EPA Well ID: UT20852-08504

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation (3,998 feet) to the top of the Wasatch Formation, at an estimated depth of 6,317 feet (KB).

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,040 psig, based on the following calculation:

$$\text{MAIP} = [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where}$$

$$\text{FG} = 0.67 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 4,528 \text{ feet (top perforation depth KB)}$$

$$\text{MAIP} = 1,040 \text{ psig}$$

UIC Area Permit No. UT20852-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cement records, including Cement Bond Log, have not satisfactorily demonstrated the presence of adequate Confining Zone annulus cement to prevent migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8 inch or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 feet above the top perforation.

**Demonstration of Mechanical Integrity:** A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than once every five years after the last successful test.

Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. The RTS shall be run within a 180-day Limited Authorization to inject period. If the RTS is not run, or if the RTS does not confirm adequate cement, the Permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as Temperature Log, Noise Log or Oxygen Activation Log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The Applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or Operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 feet above the top perforation with a minimum of 20 feet of cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Bench from approximately 3,115 feet – 3,275 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing from approximately 3,115 feet – 3,275 feet (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the contact between the Uinta Formation and Green River Formation 1,610 feet – 1,730 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2 inch casing from approximately 1,610 feet – 1,730 feet (KB).

PLUG NO. 4: Set a Class “G” cement plug within the 5-1/2 inch casing to 355 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Balcron Monument Federal No. 24-25-8-17  
EPA Well ID Number: UT20852-08504

**Underground Sources of Drinking Water (USDWs):** USDWs in the Boundary Area Permit generally occur within the Uinta Formation. According to “*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92.*” the base of moderately saline ground water may be found at approximately 100 feet below ground surface in Balcron Monument Federal No. 24-25-8-17.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within one-quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]:**  
TDS of the produced Garden Gulch and Douglas Creek Members water: 7,738 mg/l.

The blended injectate (3,186 mg/l) is produced Green River Formation water, water from the Johnson Water District pipeline and/or water from the Green River pipeline, and produced water from Green River Formation wells proximate to the Balcron Monument federal No. 24-25-8-17.

**Aquifer Exemption:** The TDS of water produced from the proposed injection well is less than 10,000 mg/l. An aquifer exemption for the Garden Gulch, Douglas Creek, and Basal Carbonate Members within the Humpback Area Permit was issued in September 2000. This aquifer exemption includes area within a one-quarter (1/4) mile radius of the Balcron Monument Federal No. 24-25-8-17.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, contains 34 feet of shale and impervious carbonate between the depths of 3,964 feet and 3,998 feet (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,319 feet of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,998 feet (KB) to the estimated top of the Wasatch Formation at 6,317 feet (KB). All formation tops are based on correlations to Newfield Production Company Federal No. 1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show 80% or greater cement bond index in the Confining Zone (3,964 feet – 3,998 feet KB). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8 inch casing is set at 302 feet (KB) in a 12-1/4 inch hole, using 190 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2 inch casing is set at 6,217 feet (KB) in a 7-7/8 inch hole secured with 596 sacks of cement. Total driller depth 6,250 feet. Plugged back total depth (PBD) is 6,167 feet. EPA calculates top of cement at 2,387 feet. Estimated CBL top of cement is 1,840 feet.

**Perforations:** Top perforation: 4,528 feet (KB). Bottom perforation: 5,151 feet (KB).

**Area-of-Review Wells:** There is one (1) Green River Formation producing oil well and four (4) Green River Class II enhanced recovery injection wells in the one-quarter (1/4) mile Area-of-Review (AOR). No well needs Corrective Action.

Humpback No. 13A-25-8-17	UT20852-06281	API: 43-047-34200
Monument Fed. No. 23-25-8-17	UT20852-04462	API: 43-047-32529
Balcron Monument Fed. No. 34-25-8-17	UT20852-04464	API: 43-047-32670
Odekirk Spring No. 3-36-8-17	UT20891-04600	API: 43-047-33015

Humpback No. R-25-8-17		API: 43-047-39973
------------------------	--	-------------------

**Reporting of Noncompliance:**

- (a) Anticipated Noncompliance. The Operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The Operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the Operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The Operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**.

**Other Noncompliance:** The Operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the Operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.



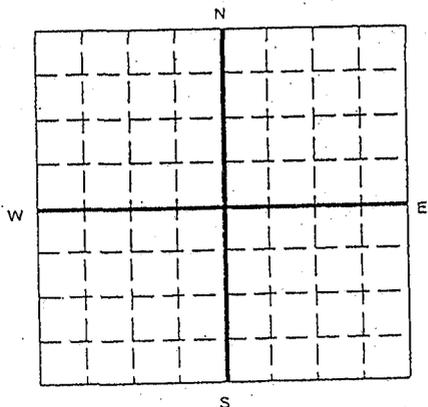
United States Environmental Protection Agency  
Washington, DC 20460

### WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

\_\_\_ 1/4 of \_\_\_ 1/4 of \_\_\_ 1/4 of \_\_\_ 1/4 of Section \_\_\_ Township \_\_\_ Range \_\_\_

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location \_\_\_ ft. frm (N/S) \_\_\_ Line of quarter section  
and \_\_\_ ft. from (E/W) \_\_\_ Line of quarter section.

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- Individual
- Area

Number of Wells \_\_\_

Well Number

#### WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

#### WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

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)

Signature

Date Signed

UT20852-08504

Balcron Monument Federal 24-25-8-17

Spud Date: 9/24/95  
Put on Production: 10/26/95

GL: 5018' KB: 5028'

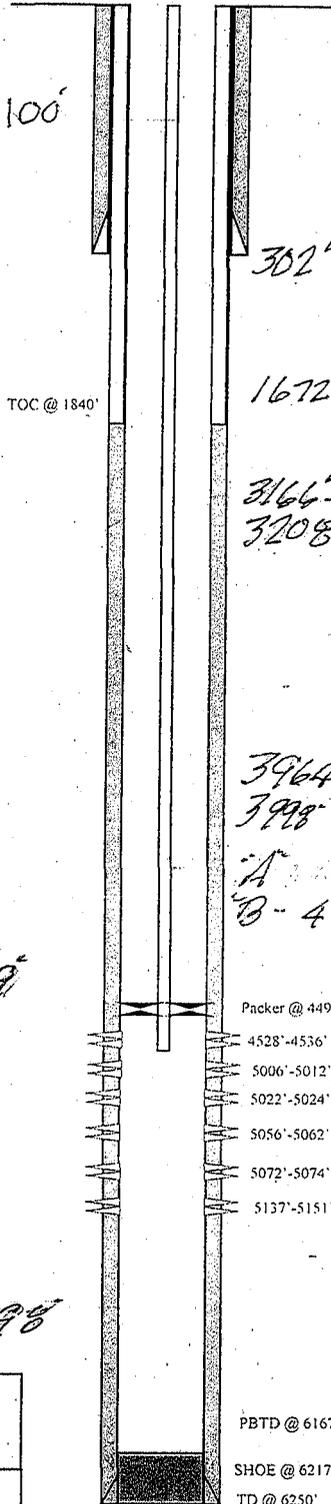
SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (291.52') *Base 4500's < 100'*  
DEPTH LANDED: 301.52 KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 190 sxs Class "G" cmt, est. 6 bbls cmt to surface.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6206.84')  
DEPTH LANDED: 6216.84' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 191 sxs Prem. Lite II mixed 395 sxs 50/50 POZ  
CEMENT TOP AT: 1840' per CBL

Proposed Injection  
Wellbore Diagram



FRAC JOB

10/10/95 5056'-5151'  
10/11/95  
10/14/95 5006'-5024'  
6/7/03 5495'-5653'

**FRAC SANDS AS FOLLOWS:**  
BJ Services: 6,006 gal 2% KCL wtr w/ 4800 # 20/40 sand. ATP=4900 psi. Perfs would not take fluid. Shut down frac and TIH w/ pkr and break down perfs. BJ Services: Second attempt: 34,272 gals 2% KCL wtr w/ 52,300 # 20/40 sand & 86,520 # 16/30 sand. ATP=4000 psi, ATR=33.5 bpm, ISIP 1200 psi.  
2800 psi, 5 min 2190 psi, 10 min 1670 psi, 15 min 1360 psi, 30 min 1100 psi. No frac done on this zone.  
BJ Services: 11,298 gal 2% KCI wtr w/ 50,260 #16/30 sand. ATP 3200 psi, @ 31 BPM, ISIP 4500 psi, 5 min 2920 psi, 10 min 2540 psi, 15 min 2160 psi.

*302'*  
*1672' Green River*  
*3164'-3206' Trias*  
*3208'-3221' Mahogany Bench*  
*3964'-3998' Bon Giv Zone*  
*3998' Garden Gulch*  
*A: 4092'-4174'*  
*B: 4204'-4290'*

*80% BOND: 4158'-4299'*

Packer @ 4493'

4528'-4536'  
5006'-5012'  
5022'-5024'  
5056'-5062'  
5072'-5074'  
5137'-5151'

*Douglas Creek 4940'*

PERFORATION RECORD

Date	Depth Range	Formation	Perforations
10/09/95	5056'-5062'	Shale	4 holes
10/09/95	5072'-5074'	Shale	2 holes
10/09/95	5137'-5151'	R-5	8 holes
10/13/95	5006'-5012'	R-2	4 JSPF
10/13/95	5022'-5024'	R-2	4 JSPF
10/14/95	4528'-4536'	Y-3	4 JSPF

*Cattle Peak 5782'-5798'*

**NEWFIELD**



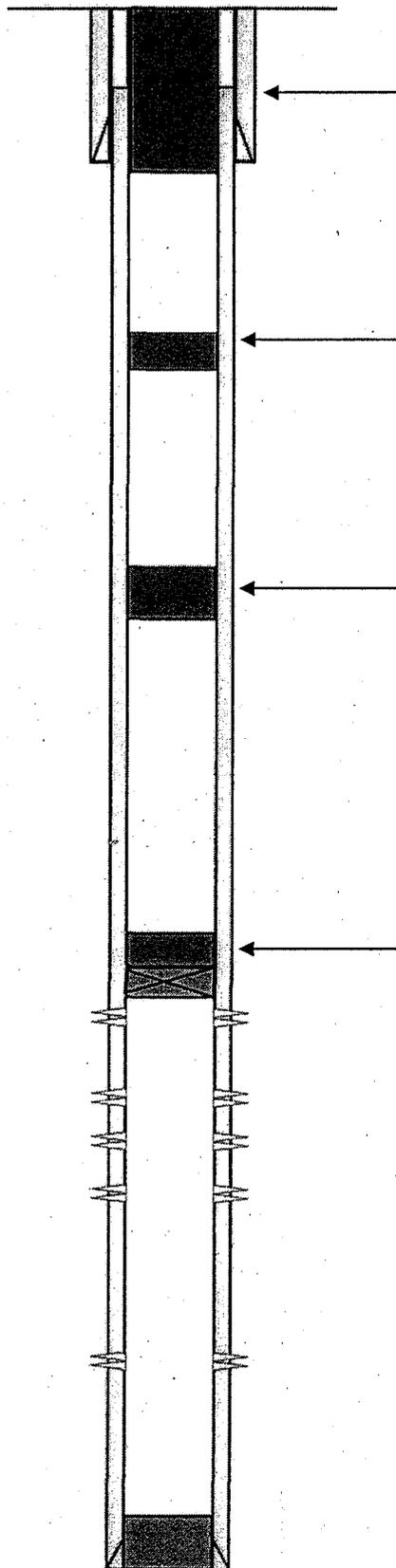
Balcron Monument Federal 24-25-8-17  
653' FSL & 2028' FWL  
SE/SW Section 25-T8S-R17E  
Uintah Co, Utah  
API #43-047-32669; Lease #UTU-67845

PBTD @ 6167'  
SHOE @ 6217'  
TD @ 6250'

*Est. basal Carbonate 6192'*

*Est. Mississippian 6317'*

## Plugging and Abandonment Diagram for Balcron Monument Fed. 24-25-8-17



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 355 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation 1,610 feet – 1,730 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the casing from approximately 1,610 feet – 1,730 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 3,115 feet – 3,275 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 160-foot balanced cement plug inside the casing from approximately 3,115 feet – 3,275 feet.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.



**PLUGGING RECORD**

NAME AND ADDRESS OF PERMITTEE

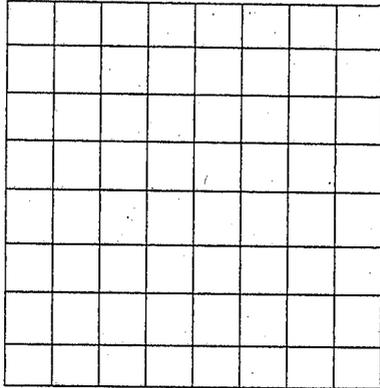
NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER



SURFACE LOCATION DESCRIPTION

\_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rule

Number of Wells \_\_\_\_\_

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

METHOD OF EMPLACEMENT OF CEMENT PLUGS

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE

- CLASS I
- CLASS II
- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage
- CLASS III
- The Balance Method
- The Dump Bailer Method
- The Two-Plug Method
- Other

CEMENTING TO PLUG AND ABANDONED DATA

PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7

Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type cement or other material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-67845

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
BALCRON MON FED 24-25

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4304732669

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:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 653 FSL 2028 FWL

COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 25, T8S, 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  01/25/2011	<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 type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" 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 checked="" 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.

The subject well has been converted from a producing oil well to an injection well on 01/21/2011.

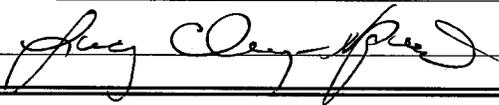
On 01/20/2011 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/25/2011 the casing was pressured up to 1590 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20852-08504 API# 43-047-32669

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 01/26/2011

(This space for State use only)

**RECEIVED**  
**JAN 31 2011**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
USA UTU-67845

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
GMBU

8. Well Name and No.  
BALCRON MON FED 24-25

9. API Well No.  
4304732669

10. Field and Pool, or Exploratory Area  
GREATER MB UNIT

11. County or Parish, State  
UINTAH, UT

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
653 FSL 2028 FWL  
SESW Section 25 T8S R17E

**12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA**

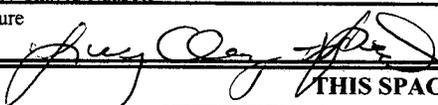
TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status _____	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 01/21/2011.

On 01/20/2011 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/25/2011 the casing was pressured up to 1590 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20852-08504      API# 43-047-32669

I hereby certify that the foregoing is true and correct (Printed/ Typed) Lucy Chavez-Naupoto	Title Administrative Assistant
Signature 	Date 01/26/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by.....	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

JAN 31 2011

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: 1 / 25 / 11  
 Test conducted by: Austin Harrison  
 Others present: \_\_\_\_\_

Well Name: <u>Pigeon Mountain Federal #258</u> Type: ER SWD		Status: AC TA UC	
Field: <u>Mountain Butte</u>			
Location: <u>24</u> Sec: <u>25 T 8 N 17 E</u> W	County: <u>Uintah</u>	State: <u>UT</u>	
Operator: <u>NEWFIELD PRODUCTION CO.</u>			
Last MIT: <u>  </u> / <u>  </u> / <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: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1590 psig	psig	psig
5 minutes	1590 psig	psig	psig
10 minutes	1590 psig	psig	psig
15 minutes	1590 psig	psig	psig
20 minutes	1590 psig	psig	psig
25 minutes	1590 psig	psig	psig
30 minutes	1590 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: \_\_\_\_\_

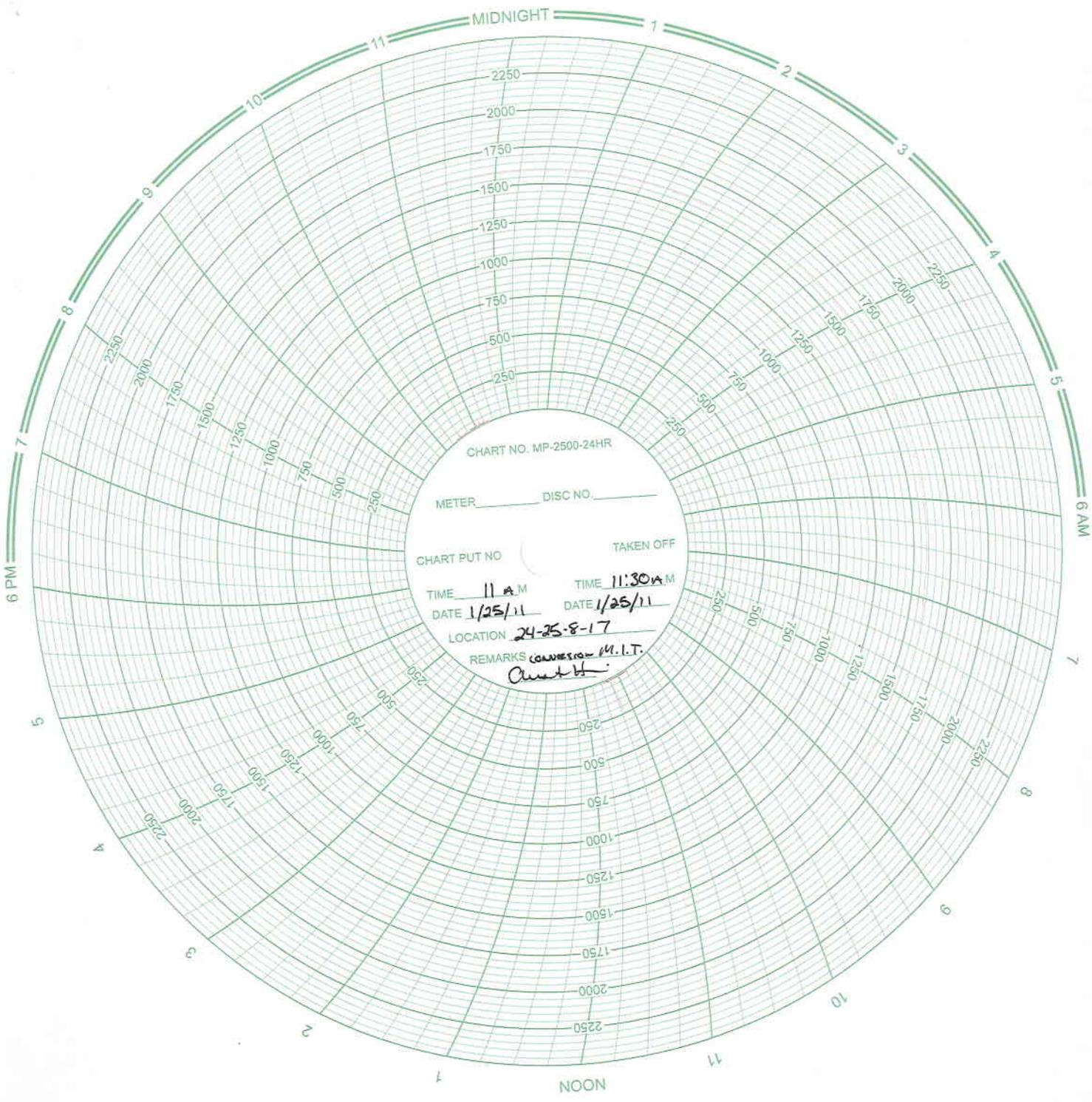


CHART NO. MP-2500-24HR

METER \_\_\_\_\_ DISC NO. \_\_\_\_\_

CHART PUT NO \_\_\_\_\_

TAKEN OFF \_\_\_\_\_

TIME 11 A M

TIME 11:30 A M

DATE 1/25/11

DATE 1/25/11

LOCATION 24-25-8-17

REMARKS conversion M.I.T.  
Chert H.

**Daily Activity Report**

Format For Sundry

**BLCRN MON 24-25-8-17****11/1/2010 To 3/28/2011****1/20/2011 Day: 1****Conversion**

WWS #7 on 1/20/2011 - MIRU Western rig #7. LD rod string & pump. Start TOH W/ production tbg. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 13 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH. ND wellhead & release TA @ 5219'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 10 jts. SIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$6,461**1/21/2011 Day: 2****Conversion**

WWS #7 on 1/21/2011 - Continue TOH breaking and redoping every connection. LD bottom 27 jts and BHA. PU and RIH w/ PKR, SN and 139 jts of tbg. Pressure test tbg to 3000 psi. Fish SV. SIWFN. - Flush tbg w/ 30 BW. Continue TOH w/ tbg breaking each connection, clean & inspect pins and apply Liquid O-ring to pins. LD bottom 27 jts and BHA. PU & RIH w/ AS1 pkr, SN and 139 jts of tbg. Pump 15 BW down tbg. Drop SV. Pump 20 BW. Well circulating. RU sandline. Push SV to SN w/ sandline. POH w/ sandline. Pressure test tbg to 3000 psi. Fish SV w/ sandline. SIWFN.

**Daily Cost:** \$0**Cumulative Cost:** \$12,471**1/22/2011 Day: 3****Conversion**

WWS #7 on 1/22/2011 - Pump pkr fluid. Set pkr and NU WH. Pressure test annulus and pkr. RDMOSU. Ready for MIT!! - ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 65 bbls fresh water. Pump down annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4444.76', CE @ 4448.06' & EOT @ 4452.61'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. No pressure lose. RDMOSU. Ready for MIT!!

**Daily Cost:** \$0**Cumulative Cost:** \$16,587**1/25/2011 Day: 4****Conversion**

Rigless on 1/25/2011 - MIT on well - On 1/20/2011 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Balcron Monument Federal 24-25-8-17). On 1/25/2011 the csg was pressured up to 1590 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20852-08504 API# 43-047-32669 **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$48,407**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>

FEB 24 2011

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, UT 84052

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20852-08504  
Well: Balcron Monument Federal 24-25-8-17  
SE/SW Sec. 25 T9S-R17E  
Uintah County, Utah  
API No.: 43-047-32699 32669

Dear Mr. Guinn:

The U.S. Environmental Protection Agency (EPA), Region 8, has received Newfield Production Company's (Newfield) January 26, 2011, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20852-08504.

As of the date of this letter, Newfield is authorized to commence injection into the Balcron Monument Federal 24-25-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,040 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required according to UIC Permit UT20852-08504. If Newfield seeks a higher MAIP than 1,040 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of the UIC Permit.

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If you have questions regarding the above action, please call Tom Aalto at 303-312-6949 or 1-800-227-8917, ext. 312-6949. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

cc: Uintah & Ouray Business Committee:  
Richard Jenks, Jr., Chairman  
Frances Poowegup, Vice-Chairwoman  
Ronald Wopsock, Councilman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-67845

**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:  
BALCRON MON FED 24-25

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4304732669

3. ADDRESS OF OPERATOR:      PHONE NUMBER  
Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052      435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 653 FSL 2028 FWL

COUNTY: UINTAH

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN:    SESW, 25, T8S, R17E

STATE:    UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will <u>05/14/2011</u>	<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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: _____	<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: - Put on Injection
	<input checked="" 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.

The above reference well was put on injection at 6:30 PM on 05/14/2011.

EPA # UT20852-08504    API # 43-047-32669

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE *Lucy Chavez-Naupoto*

DATE 05/16/2011

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**MAY 19 2011**  
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-67845

**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:  
BALCRON MON FED 24-25

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4304732669

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:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 653 FSL 2028 FWL

COUNTY: UINTAH

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW, 25, T8S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will <u>05/14/2011</u>	<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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: _____	<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: - Put on Injection
	<input checked="" 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.

The above reference well was put on injection at 6:30 PM on 05/14/2011.

EPA # UT20852-08504 API # 43-047-32669

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE 

DATE 05/16/2011

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**RECEIVED**  
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**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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**SUNDRY NOTICES AND REPORTS ON WELLS**

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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:  
BALCRON MON FED 24-25

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4304732669

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:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 653 FSL 2028 FWL

COUNTY: UINTAH

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW, 25, T8S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will <u>05/14/2011</u>	<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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: _____	<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: - Put on Injection
	<input checked="" 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.

The above reference well was put on injection at 6:30 PM on 05/14/2011.

EPA # UT20852-08504 API # 43-047-32669

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE 

DATE 05/16/2011

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**MAY 19 2011**  
DIV. OF OIL, GAS & MINING

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

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USA UTU-67845

**SUNDRY NOTICES AND REPORTS ON WELLS**

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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:  
BALCRON MON FED 24-25

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4304732669

3. ADDRESS OF OPERATOR:      PHONE NUMBER  
Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052      435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 653 FSL 2028 FWL

COUNTY: UINTAH

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN:    SESW, 25, T8S, R17E

STATE:    UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will <u>05/14/2011</u>	<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
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	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
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	<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: - Put on Injection
	<input checked="" 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.

The above reference well was put on injection at 6:30 PM on 05/14/2011.

EPA # UT20852-08504    API # 43-047-32669

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE *Lucy Chavez-Naupoto*

DATE 05/16/2011

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**MAY 19 2011**  
DIV. OF OIL, GAS & MINING

<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>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-67845
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>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 24-25
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43047326690000
<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> 0653 FSL 2028 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 25 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<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 type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/17/2015	<input type="checkbox"/> OTHER: <input style="width: 50px;" type="text" value="5 YR MIT"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DRILLING REPORT Report Date:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
5 YR MIT performed on the above listed well. On 12/17/2015 the casing was pressured up to 1691 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbq pressure was 1207 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08504		<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          December 28, 2015</b>
<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> 12/21/2015	

## 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: 12 / 17 / 2015  
 Test conducted by: Troy Lazenby  
 Others present: \_\_\_\_\_

-08504

Well Name: <u>Baldwin Monument Federal 24-259-17</u>		Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>			
Location: <u>SE/SW</u>	Sec: <u>25</u>	T <u>8</u>	N <u>15</u> R <u>17</u> W
County: <u>Uintah</u>		State: <u>UT</u>	
Operator: <u>Troy Lazenby</u>			
Last MIT: _____	Maximum Allowable Pressure: <u>1266</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: 2 bpd

Pre-test casing/tubing annulus pressure: 0/1207 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1207</u> psig	psig	psig
End of test pressure	<u>1207</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1683</u> psig	psig	psig
5 minutes	<u>1685</u> psig	psig	psig
10 minutes	<u>1686</u> psig	psig	psig
15 minutes	<u>1687</u> psig	psig	psig
20 minutes	<u>1688</u> psig	psig	psig
25 minutes	<u>1690</u> psig	psig	psig
30 minutes	<u>1691</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

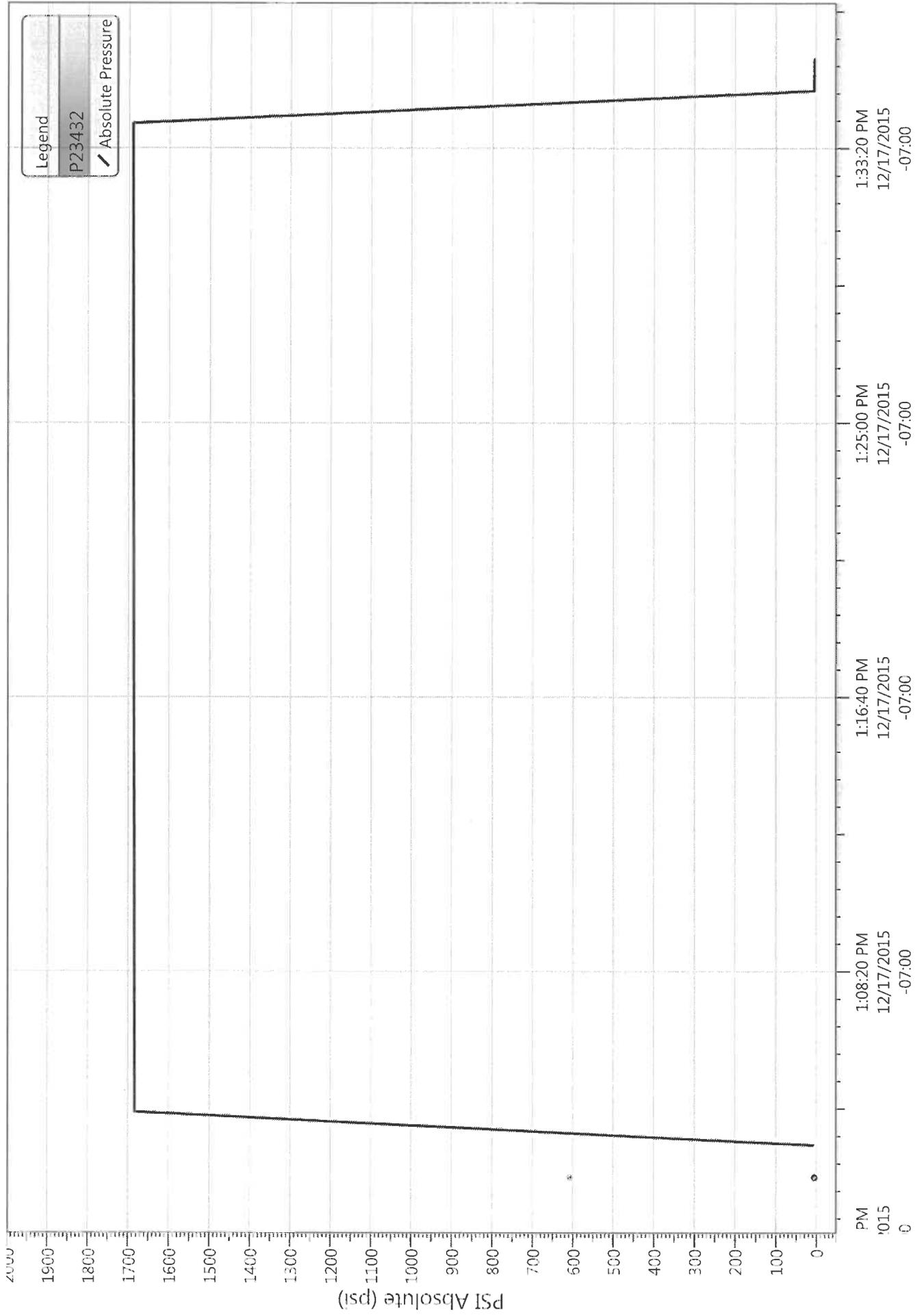
Does the annulus pressure build back up after the test?  Yes  No

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

Balcron monument federal 24-25 8-17  
12/17/2015 1:00:57 PM



<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-67845
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 24-25
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0653 FSL 2028 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 25 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047326690000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> UINTAH		<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 type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>3/8/2016</b>	<input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Workover MIT"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DRILLING REPORT Report Date:	
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 repair), attached is a daily status report. Workover MIT performed on the above listed well. On 03/07/2016 the csg was pressured up to 1443 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 600 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08504</p>		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          March 09, 2016</b>		
<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> 3/9/2016	

## 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 1 7 1 16  
 Test conducted by: Riley Begley  
 Others present: \_\_\_\_\_

Well Name: <u>Balconia monument federal</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument North</u>		
Location: <u>29</u> Sec: <u>25</u> T <u>8</u> N/S R <u>17</u> E/W	County: <u>Uinckh</u>	State: <u>UT</u>
Operator: _____		
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: 1443 / 600 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>600</u> psig	psig	psig
End of test pressure	<u>600</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1443</u> psig	psig	psig
5 minutes	<u>1443</u> psig	psig	psig
10 minutes	<u>1443</u> psig	psig	psig
15 minutes	<u>1443</u> psig	psig	psig
20 minutes	<u>1443</u> psig	psig	psig
25 minutes	<u>1443</u> psig	psig	psig
30 minutes	<u>1443</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

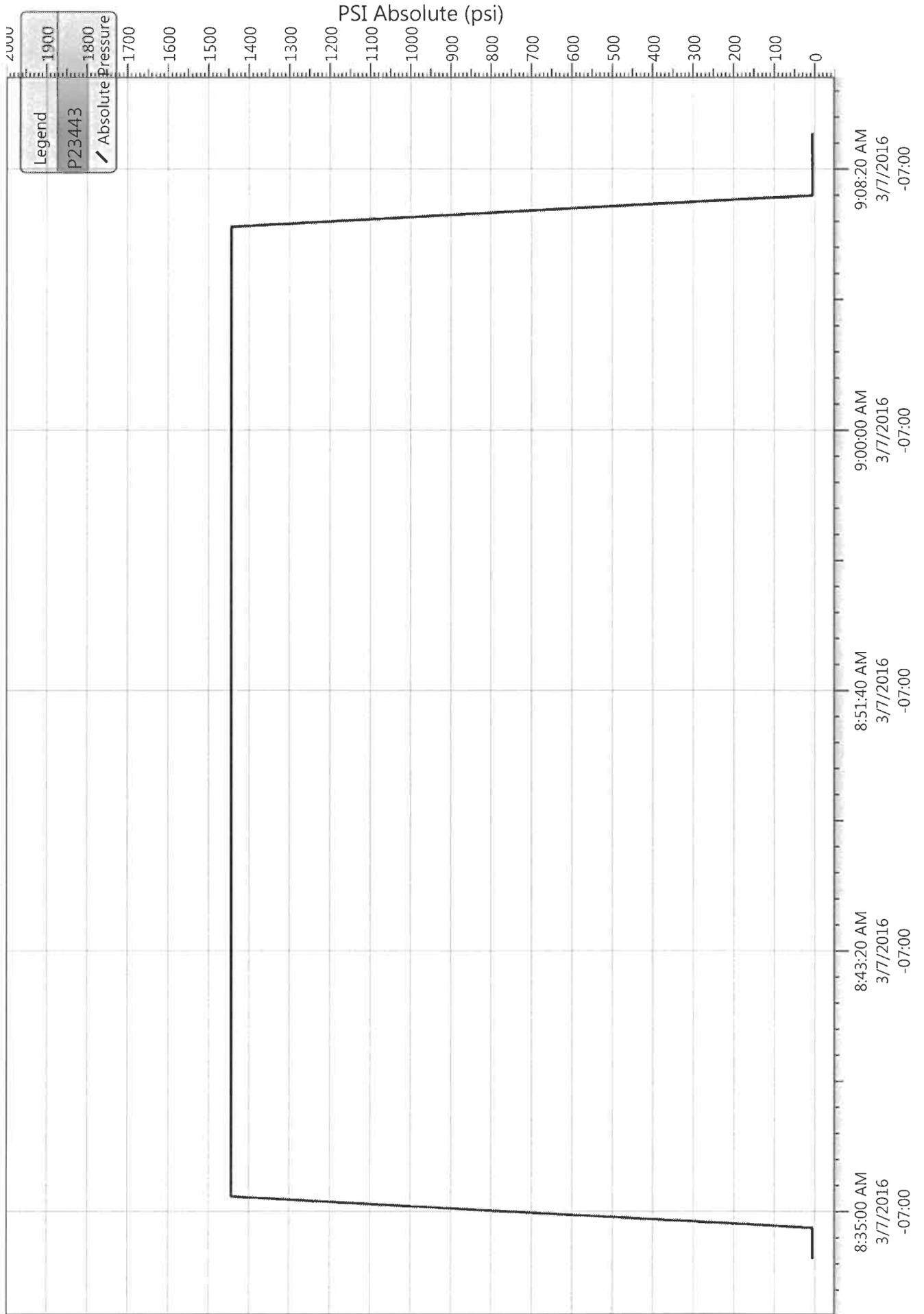
### MECHANICAL INTEGRITY PRESSURE TEST

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: \_\_\_\_\_

Balcron Monument Federal 24-25-8

3/7/2016 8:32:41 AM



**NEWFIELD**

**Schematic**

**Well Name: Blcrn Mon 24-25-8-17**

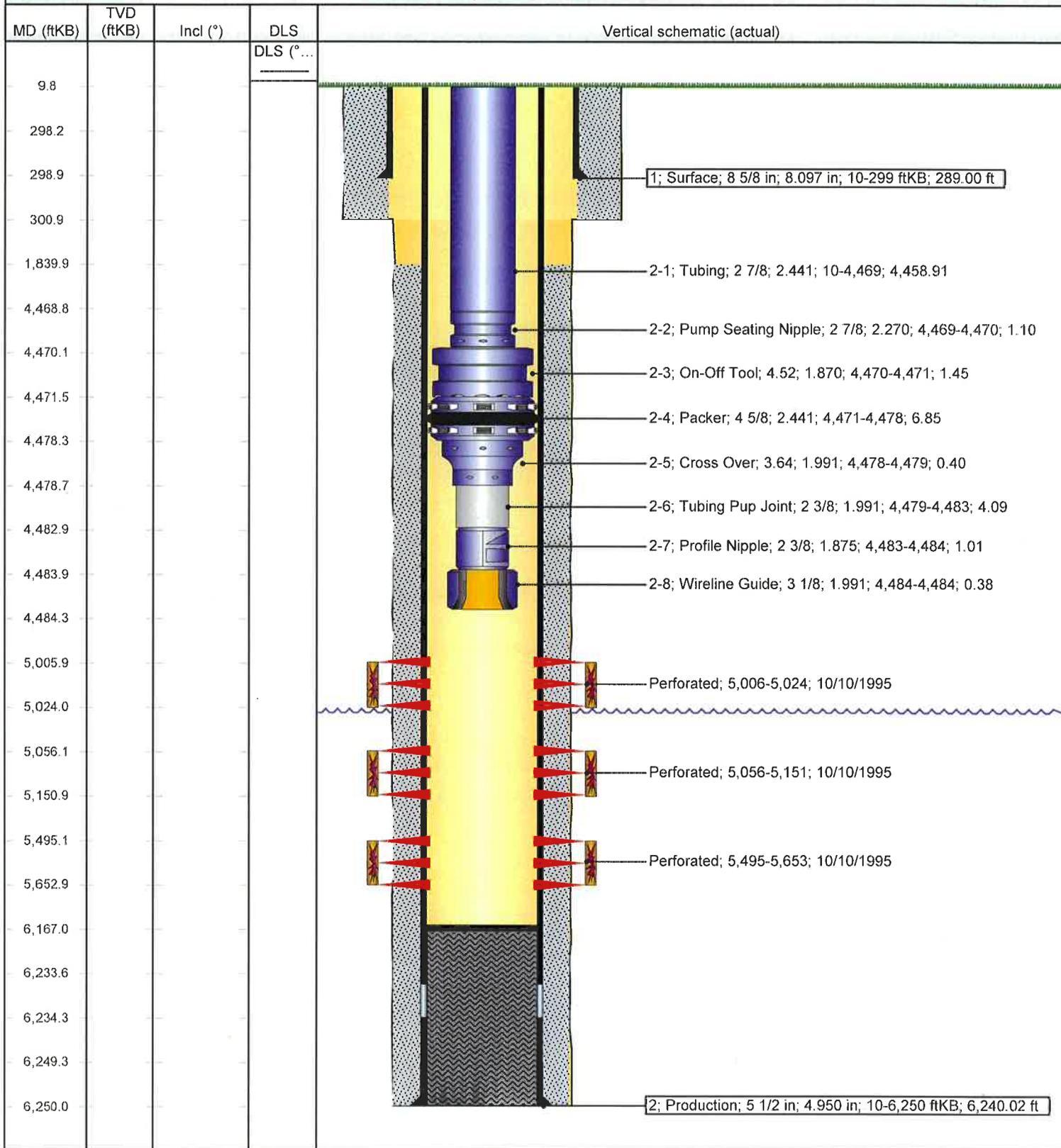
Surface Legal Location 25-8S-17E		API/UWI 43047326690000	Well RC 500151564	Lease	State/Province Utah	Field Name GMBU CTB9	County Uintah
Spud Date	Rig Release Date	On Production Date 10/26/1995	Original KB Elevation (ft) 5,028	Ground Elevation (ft) 5,018	Total Depth All (TVD) (ftKB)	PBTB (All) (ftKB) Original Hole - 6,167.0	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Repairs	Secondary Job Type Tubing Repair	Job Start Date 3/3/2016	Job End Date 3/8/2016
---------------------------------------	-----------------------------	-------------------------------------	----------------------------	--------------------------

**TD: 6,250.0**

Vertical - Original Hole, 3/9/2016 9:26:26 AM



**NEWFIELD****Newfield Wellbore Diagram Data  
Blcrn Mon 24-25-8-17**

Surface Legal Location 25-8S-17E		API/UWI 43047326690000		Lease	
County Uintah		State/Province Utah		Basin Uintah Basin	
Well Start Date 9/24/1995		Spud Date		Final Rig Release Date	
Original KB Elevation (ft) 5,028		Ground Elevation (ft) 5,018		Total Depth (ftKB) 6,250.0	
				Total Depth All (TVD) (ftKB)	
				PBTD (All) (ftKB) Original Hole - 6,167.0	

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	W/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	9/24/1995	8 5/8	8.097	24.00	J-55	299
Production	10/3/1995	5 1/2	4.950	15.50	J-55	6,250

**Cement****String: Surface, 299ftKB 9/25/1995**

Cementing Company BJ Services Company		Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 301.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type Lead	Amount (sacks) 190	Class G	Estimated Top (ftKB) 10.0

**String: Production, 6,250ftKB 10/3/1995**

Cementing Company BJ Services Company		Top Depth (ftKB) 1,840.0	Bottom Depth (ftKB) 6,250.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type Lead	Amount (sacks) 220	Class Super G	Estimated Top (ftKB) 1,840.0
Fluid Description		Fluid Type Tail	Amount (sacks) 395	Class 50:50 POZ	Estimated Top (ftKB) 2,500.0

**Tubing Strings**

Tubing Description		Run Date			Set Depth (ftKB)			
Tubing		3/4/2016			4,484.2			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	140	2 7/8	2.441	6.50	J-55	4,458.91	10.0	4,468.9
Pump Seating Nipple	1	2 7/8	2.270	6.50	N-80	1.10	4,468.9	4,470.0
On-Off Tool	1	4.515	1.870	6.50		1.45	4,470.0	4,471.5
Packer	1	4 5/8	2.441			6.85	4,471.5	4,478.3
Cross Over	1	3.635	1.991			0.40	4,478.3	4,478.7
Tubing Pup Joint	1	2 3/8	1.991	4.70	N-80	4.09	4,478.7	4,482.8
Profile Nipple	1	2 3/8	1.875		N-80	1.01	4,482.8	4,483.8
Wireline Guide	1	3 1/8	1.991			0.38	4,483.8	4,484.2

**Rod Strings**

Rod Description		Run Date			Set Depth (ftKB)			
Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
2	CP3, Original Hole	5,006	5,024	4			10/10/1995
1	D1, Original Hole	5,056	5,151	4			10/10/1995
3	CP1, Original Hole	5,495	5,653	4			10/10/1995

**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	4,500	0.79	31.0	2,920			
1	4,500	0.79	31.0	2,920			
1	4,500	0.79	31.0	2,920			

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 189080 lb
1		Proppant White Sand 189080 lb
1		Proppant White Sand 189080 lb



Well Name: Blcrn Mon 24-25-8-17

Job Detail Summary Report

Jobs		Job Start Date	Job End Date
Primary Job Type Repairs		3/3/2016	3/8/2016
Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
3/3/2016	3/3/2016	MIRUWOR NC #3. Release PKR. Attempt to drift tbg w/ out success. TOOH breaking & doping collars & tallying tbg w 76 jts. 63 jts left in hole.	
Start Time	End Time	Comment	
06:00	06:30	Crew travel to Newfield drilling yard.	
Start Time	End Time	Comment	
06:30	07:00	Pre-job safety meeting & JSA discussion.	
Start Time	End Time	Comment	
07:00	09:00	Road rig from yard to location.	
Start Time	End Time	Comment	
09:00	11:00	MIRUWOR NC #3.	
Start Time	End Time	Comment	
11:00	12:00	Release 5 1/2" PKR. RU Preferred hot oil truck. Flush tbg w/ 40 bbls wtr treated w/ bio-cide & H2S scavenger.	
Start Time	End Time	Comment	
12:00	13:00	Attempt to RIH w/ 2 7/8" tbg drift on sandline to PSN. Get in hole to 2150' & stack out w/ drift. Attempt to work drift through obstruction w/ out success. POOH w/ drift. MU 2 7/8" swab cup mandrel. RIH to PSN @ 4437' w/out issue. POOH w/ sandline. MU drift & reattempt to drift to PSN. Stacked out w/ drift @ 2150'. POOH w/ sandline.	
Start Time	End Time	Comment	
13:00	16:00	Start TOOH w/ tbg breaking & doping collars & tallying tbg. Get out w/ 70 jts tbg w/ out seeing any indication of not being able to get in w/ drift.	
Start Time	End Time	Comment	
16:00	17:00	RIH w/ drift. Stacked out 150' in hole. POOH w/ drift. Pull an additional 6 jts tbg. RIH w/ drift & stacked out 500' in hole. Attempt to work drift through obstruction w/out success. POOH w/ sandline. SWIFN.	
Start Time	End Time	Comment	
17:00	17:30	Perform post shift rig inspection & maintenance.	
Start Time	End Time	Comment	
17:30	18:00	Crew travel from location.	
Report Start Date	Report End Date	24hr Activity Summary	
3/4/2016	3/4/2016	Continue TOOH w/ remaining 63 jts tbg & PKR. MU new BHA TIH w/ tbg detail testing on TIH	
Start Time	End Time	Comment	
06:00	06:30	Crew travel to location.	
Start Time	End Time	Comment	
06:30	07:00	Pre-job safety meeting & JSA discussion.	
Start Time	End Time	Comment	
07:00	11:00	Open well. Continue TOOH w/ remaining 63 jts tbg breaking & doping collars & tallying on TOOH. Get out of hole w/ tbg. LD PKR. Found 4 significantly bent jts on TOOH (jts #75, 76, & # 113 & 114)	
Start Time	End Time	Comment	
11:00	14:30	MU updated BHA @ follows 2 3/8" WLREG (.38), 2 3/8" XN profile nipple (1.37" profile 1.01' length), 2 3/8" pup jt (4.09'), 2 3/8" x 2 7/8" X-over (.40'). KLX 5 1/2" AS-1X PKR (6.85') On/Off tool w/ X profile (1.87" profile (1.95' length). Start TIH w/ tbg testing every 40 jts. Found an additional bent jt on TIH (jt # 68). LD to replace. Get in hole w/ all tbg out of derrick. PU 6 new jts to replace 5 bent jts + 1 to deepen PKR set depth. (4458.91' tbg length). Top 6 jts tbg are L-80 due to being out of J-55 in inventory.	
Start Time	End Time	Comment	
14:30	15:30	RU hot oil truck to tbg. Pressure tbg to 3000 psi. Shut in tbg w/ isolation tool on top of tbg. Watch pressure. Lost 50 psi in first 15 min. Bump pressure back to 3000 psi & watch for 30 min. Solid test no loss. Bleed off pressure. RIH w/ sandline & fishing tool to retrieve standing valve. Latch onto & equilibrate until able to pull off seat. POOH & RD sandline.	
Start Time	End Time	Comment	
15:30	16:30	RD rig workflow. ND BOP. Install B-1 adapter flange onto tbg string.	



Well Name: Blcrrn Mon 24-25-8-17

### Job Detail Summary Report

Start Time	16:30	End Time	17:30	Comment
Start Time	17:30	End Time	18:00	RU hot oiler to csg. Pump 72 bbls PKR fluid. Unland tbq. Set PKR. Land tbq w/ 17K tension. Pressure up csg to 1400 psi. SDFW. Will check pressure on Tuesday 3-8-2016 when rig crew returns to duty.
Start Time	18:00	End Time	18:30	Post shift rig inspection & maintenance.
Report Start Date	3/8/2016	Report End Date	3/8/2016	Crew travel from location.
Start Time	06:00	End Time	07:00	Comment
Start Time	07:00	End Time	08:00	3/6/2016. Open well w/ 1000 psi on casing. Pressure casing to 1400. Leave pressure on well overnight.
Start Time	08:00	End Time	09:00	3/7/2016. Open well w/ 1445 psi on casing. RU Newfield Water Services. Ran MIT on casing w/ 0 psi lose in 30 min test. Workover MIT performed on the above listed well. On 03/07/2016 the csg was pressured up to 1443 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 600 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08504
Start Time	08:00	End Time	09:00	Comment
				3/8/2016. Held safety meeting. RDMOSU. FINAL REPORT