



**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

May 18, 1993

**RECEIVED**

MAY 20 1993

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

**DIVISION OF**  
**OIL GAS & MINING**

Gentlemen:

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

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

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

EQUITABLE RESOURCES ENERGY COMPANY,  
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

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Balcron Federal #21-25Y  
NE NW Section 25, T9S, R16E  
Duchesne County, Utah  
198.4' FNL, 2302.2' FWL  
FLS #U-64380  
PTD 5,650'  
GL 5684.9'

Balcron Federal #41-21Y  
NE NE Section 21, T9S, R16E  
Duchesne County, Utah  
970.2' FNL, 893.8' FEL  
FLS #U-64379  
PTD 6,000'  
GL 5953.5'

Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah  
561.8' FSL, 1887.2' FWL  
FLS #U-64381  
PTD 5,950'  
GL 5099.1'

Balcron Federal #21-9Y  
NE NW Section 9, T9S, R16E  
Duchesne County, Utah  
476.2' FNL, 2051' FWL  
FLS #U-65207  
PTD 6,190'  
GL 5747.3'

Balcron Federal #21-13Y  
NE NW Section 13, T9S, R16E  
Duchesne County, Utah  
702.7' FNL, 1830.5' FWL  
FLS #U-64805  
PTD 5,900'  
GL 5535.5'

Balcron Federal #22-10Y  
SE NW Section 10, T9S, R17E  
Duschene County, Utah  
1980' FNL, 1980' FWL  
FLS #U-65210  
PTD 5,850'  
GL 5121.9'

EQUITABLE RESOURCES ENERGY COMPANY,  
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

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Balcron Federal #44-14Y  
SE SE Section 14, T9S, R17E  
Duchesne County, Utah  
1008.2' FSL, 832.3' FEL  
FLS #U-64806  
PTD 5,700'  
GL 5164.3'

Balcron Monument Federal #14-8  
SW SW Section 8, T9S, R17E  
Duchesne County, Utah  
660' FSL, 660' FWL  
FLS #U-007978  
PTD 5,950'  
GL 5370.6'

Balcron Monument Federal #41-18  
NE NE Section 18, T9S, R17E  
Uintah County, Utah  
660' FNL, 660' FEL  
FLS #U-3563-A  
PTD 5,900'  
GL 5406.3'

5/17/93  
/rs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK   
 b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 EQUITABLE RESOURCES ENERGY COMPANY

3. ADDRESS OF OPERATOR  
 P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 SE SW Section 3, T9S, R17E      561.8' FSL, 1887.2' FWL  
 At proposed prod. zone

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

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

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 GL      5099.1'

23. PROPOSED CASING AND CEMENTING PROGRAM

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

5. LEASE DESIGNATION AND SERIAL NO.  
 U-64381

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

7. UNIT AGREEMENT NAME  
 n/a

8. FARM OR LEASE NAME  
 Balcron Federal

9. WELL NO.  
 #24-3Y

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 3, T9S, R17E

12. COUNTY OR PARISH | 13. STATE  
 Duchesne | UTAH

EXHIBITS ATTACHED

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

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 MAY 20 1993

DIVISION OF  
 OIL, GAS & MINING

**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  
 (This space for Federal or State office use)

Coordinator of Environmental and Regulatory Affairs  
 APPROVED BY [Signature] DATE MAY 19, 1993

PERMIT NO. 43-013-31397

OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

APPROVAL DATE 6-21-93  
 DATE 6-21-93  
 BY [Signature] DATE \_\_\_\_\_  
 WELL SPACING 649-3-2

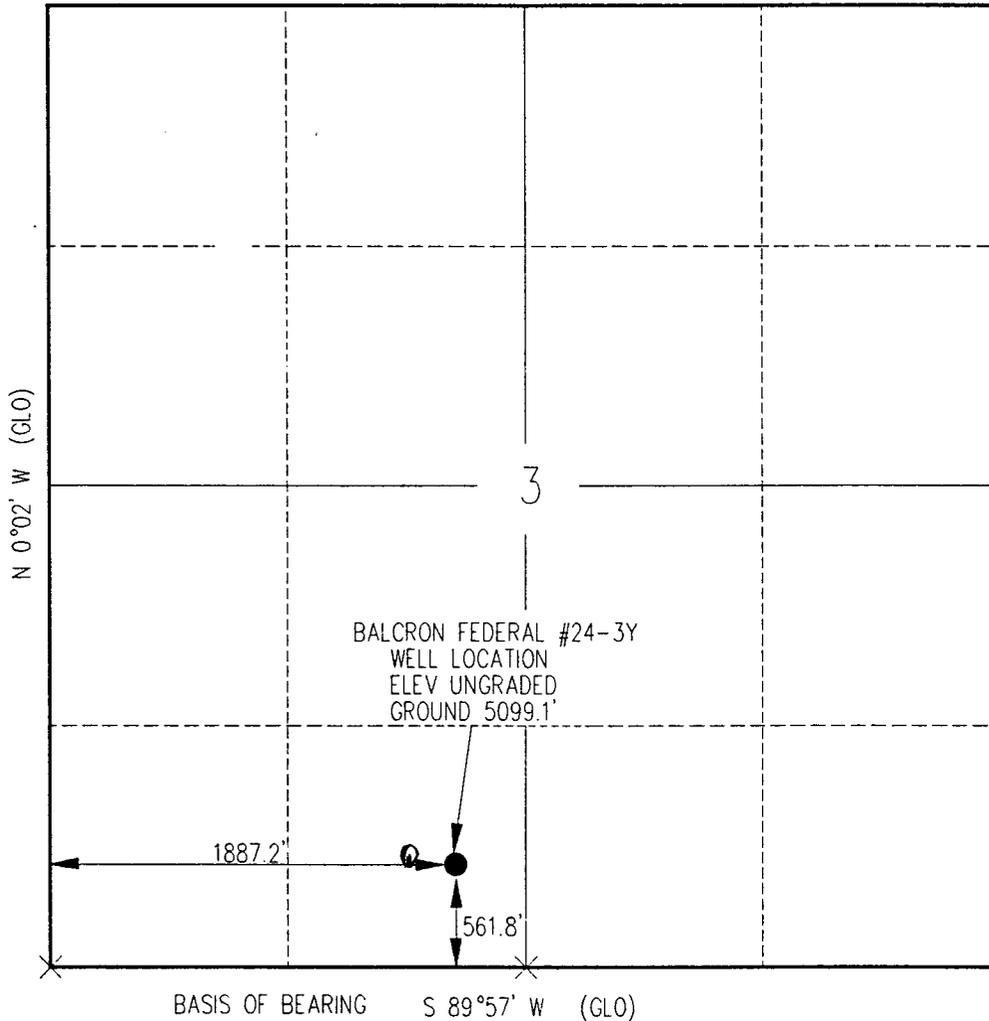
\*See Instructions On Reverse Side

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

N 89°58' E (GLO)

EQUITABLE RESOURCES ENERGY CO.

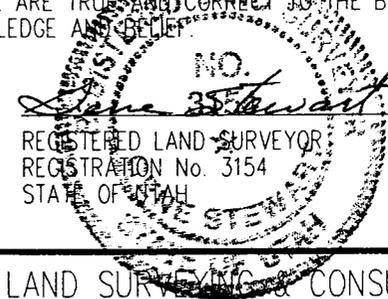
WELL LOCATION, BALCRON FEDERAL #24-3Y,  
LOCATED AS SHOWN IN THE SE 1/4 SW 1/4  
OF SECTION 3, T9S, R17E, S.L.B. & M,  
DUCESNE COUNTY UTAH.



BALCRON FEDERAL #24-3Y  
WELL LOCATION  
ELEV UNGRADED  
GROUND 5099.1'



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



TRI STATE LAND SURVEYING & CONSULTING  
38 EAST 100 NORTH, VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/29/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #24-3Y

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

EXHIBIT "G"

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				5. Lease Designation and Serial No. Federal # U-64381	
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				6. If Indian, Allottee or Tribe Name n/a	
1b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>				7. Unit Agreement Name n/a	
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division				8. Farm or Lease Name Balcron Federal	
3. Address of Operator P.O. Box 21017; Billings, MT 59104				9. Well No. #24-3Y	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SE SW Section 3, T9S, R17E 561.8' FSL, 1887.2' FWL At proposed prod. zone				10. Field and Pool, or Wildcat Monument Butte/Green River	
14. Distance in miles and direction from nearest town or post office* Approximately 14 miles from Myton, Utah (SW)				11. 00, Sec., T., R., M., or Blk. and Survey or Area SE SW Sec. 3, T9S, R17E	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest dirig. line, if any)		16. No. of acres in lease		17. No. of acres assigned to this well	
13. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.		19. Proposed depth 5,950'		20. Rotary or cable tools Rotary	
21. Elevations (Show whether DF, RT, GR, etc.) GL 5009.1'				22. Approx. date work will start* June 1, 1993	
23. PROPOSED CASING AND CEMENTING PROGRAM					
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement	
See attached					

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

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MAY 20 1993

DIVISION OF  
OIL, GAS & MINING

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

24. I hereby certify that this report is true and complete to the best of my knowledge.  
Signed: Robbie Schuman Title: Coordinator of Environmental and Regulatory Affairs Date: May 17, 1993  
(This space for Federal or State office use)

API NO. \_\_\_\_\_ Approval Date \_\_\_\_\_

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

\*See Instructions On Reverse Side

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Federal #24-3Y  
SE SW Section 3-T9S-R17E  
Duchesne County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

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

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

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

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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

Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY  
BALCRON OIL DIVISION  
BALCRON FEDERAL #24-3Y  
SE SW Section 3, T9S, R17E  
DUCHESNE COUNTY, UTAH

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

- A. The proposed well site is staked and four reference stakes are present. 150' & 200' North and 210' & 240' West.
- B. The Federal #24-3Y is located approximately 14 miles Southwesterly of Myton Utah, in the SE1/4 SW1/4 Section 3, T9S, R17E, SLB&M, Duchesne County, Utah. To reach the 24-3Y, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 11.4 miles to an intersection with the Pariette Bench road, turn left and continue 1.1 miles to proposed access road sign. Follow flags 0.5 mile to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

**2. Planned Access Roads: Refer to Map "B" (shown in GREEN)**

Approximately 0.5 mile of new road construction will be required for access to the proposed well location.

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

- B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

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

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

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

- C. Maximum grade - 2%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, as necessary to provide for proper drainage along the access road route. A borrow ditch will be cut along the West side of road from existing road to location.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and

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

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

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

Please Refer to Map "C"

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

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

A. Existing

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

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.

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

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

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

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

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

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

For Pipeline:

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

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

## 5. Location and Type of Water Supply

A. Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah.

B. No water well will be drilled on this location.

#### **6. Source of Construction Materials**

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

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

C. All surface disturbance area is on B.L.M. lands.

D. There are no trees on this location.

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

A. Cuttings - the cuttings will be deposited in the reserve pit.

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

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

The reserve pit will be constructed so as not to leak, break, or allow discharge. the reserve pit will be lined

with a 12 mil plastic liner.

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

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

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

**8. Ancillary Facilities:**

None anticipated.

## 9. Wellsite Layout:

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

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

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

The fourth side of the reserve pit will be fenced

immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

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

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

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

**A. Production**

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

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

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

If the well is abandoned/dry hole, Equitable Resources

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

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

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

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

Pure Live Seed (PLS)	Seed Mix
lbs./acre	
1	Forage Kochia ( <i>Kochia prostrata</i> )
5	Ephriam Crested Wheatgrass ( <i>Agropyron cristatum</i> Ephriam)
4	Russian Wildrye ( <i>Elymus junceus</i> )
2	Fourwing Saltbush ( <i>Atriplex canescens</i> )

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

**B. Dry Hole/Abandoned Location**

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

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

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

**11. Surface Ownership:**

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

Bureau of Land Management  
Vernal District Office  
Vernal, Utah

**12. Other Information:**

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

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River, which is the major drainage for this area, and approximately 12 miles South of Myton Utah.

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

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and

the cobblestone and younger alluvial deposits from the Quaternary period.

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

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

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

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

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

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

- B. The surface ownership is Federal. The surface use is grazing and petroleum production.
- C.
  1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.
  2. There are no occupied dwellings in the immediate area
  3. An archaeological report will be forwarded upon completion. *Attached as Exhibit "7."*
  4. There are no reported restrictions or reservations noted on the oil and gas lease.
  5. A silt catchment dam and basin will be constructed according to BLM specifications approximately 50' East

of corner #2, and also along the access road where needed.

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

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

Dave McCoskery, Drilling Engineer Home (406)248-3864

Dale Griffin, Home (303)824-3323

**14. certification:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

May 17, 1993

Date

Bobbie Schuman

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

EXHIBIT "C"

BALCRON OIL COMPANY

Geologic Prognosis

EXPLORATORY  
DEVELOPMENT X

WELL NAME: Balcron Federal #24-3Y PROSPECT/FIELD: Monument Butte  
 LOCATION: SESW 562' FSL, 1887' FWL SECTION 3 TOWNSHIP 9S RANGE 17E  
 COUNTY: Duchesne STATE: UT GL(Ung): 5099.1' EST KB: 5110' TOTAL DEPTH 5950

FORM. TOPS:

Formation	Prognosis		Sample Top		Cntrl Wl. Datum	Formation	Prognosis		Sample Top		Cntrl Wl. Datum
	Depth	Datum	Depth	Datum			Depth	Datum	Depth	Datum	
KB		5110			5171						
Uinta	Surf.										
Green River	1391	3719			3678						
2nd GG	3804	1306			1265						
Y-3	4168	942			901						
Douglas Crk.	4580	530			489						
R-2	4655	455			414						
R-5	4771	339			298						
Carb. Mkr.	5418	(-308)			(-349)						
B-1	5446	(-336)			(-377)						
TD	5950										

CONTROL WELL: Enserch Oil/Oil NWSW Section 3 Township 9S Range 17E  
MBF #1-3

SAMPLES:

Depth	Number of samples	Depth	Log	From	To
50'	samples	1300	to 3800	from Surf. Csg.	to TD
10'	samples	3800	to TD	from 3500	to TD
	samples		to	from	to
	samples		to	from	to
	samples		to	from	to
	samples		to	from	to

Send Samples To:

Utah Geological Sample Library  
1 Dry Cut

CORES:

None

DRILL STEM TESTS:

None

HUG LOGGER/HOT WIRE:

Required: (Yes/No) Yes  
 Type: Two Man

WELLSITE GEOLOGIST:

From 1300 to TD  
 Name: \_\_\_\_\_ Tele. # (\_\_\_\_) \_\_\_\_\_  
 Address: \_\_\_\_\_

COMMENTS:

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

PREPARED BY: K. K. Reinschmidt, S. W. VanDelinder DATE: 5-13-93

Equitable Resources Energy Company  
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Balcron Federal 24-3Y      PROSPECT/FIELD: Monument Butte  
LOCATION: SE SW Sec.3 Twn.9S Rge.17E  
COUNTY: Duchesne                      STATE: Utah

TOTAL DEPTH: 5950

HOLE SIZE      INTERVAL

12 1/4"    0 to 260'  
7 7/8"     260 to 5950

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	5950	5 1/2"	15.50#/Ft	J-55
(All Casing will be new, ST&C)					

CEMENT PROGRAM

Surface                      150 sacks 75% Class "G" 25% Poz with 2% CaCl and  
1/4 #/Sk Flocele.  
(Cement will be circulated to surface.)

Production                250 sacks Thifty Lite and 400 sacks 50-50 Poz  
mix.  
(Top of cement will be 2000')

PRELIMINARY  
DRILLING FLUID PROGRAM

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

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

COMMENTS

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

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Balcron Fed. 24-3Y
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight ( 8.90 ppg) : 0.462 psi/ft  
 Shut in surface pressure : 2156 psi  
 Internal gradient (burst) : 0.100 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

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

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,950	5-1/2"	15.50	J-55	ST&C	5,950	4.825		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2751	4040	1.469	2751	4810	1.75	92.23	202	2.19 J

Prepared by : McCoskery, Billings, MT  
 Date : 05-17-1993  
 Remarks :

Minimum segment length for the 5,950 foot well is 1,500 feet.  
 The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and  
 2,751 psi, respectively.

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



# United States Department of the Interior



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

IN REPLY TO:

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

April 25, 1989

## NOTICE

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

OIL AND GAS

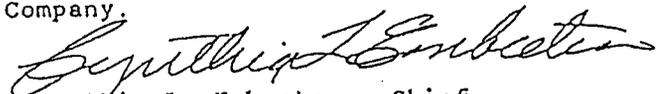
### CORPORATE MERGER RECOGNIZED RIDER TO NATIONWIDE BOND ACCEPTED

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

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

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

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

  
Cynthia L. Embretson, Chief  
Fluids Adjudication Section

1 Enclosure  
1-Exhibit A

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

Form 3104-8  
(July 1984)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

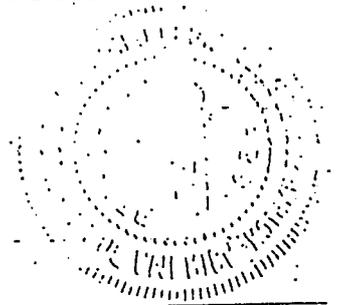
STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE  
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)

Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)

Other Oil and Gas Leasing Authorities as Applicable



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

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

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

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

SCHEDULE A

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

NAMES OF STATES

ALL STATES

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

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

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

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



SURETY RIDER

EXHIBIT "E" Page 3 of 4  
SAFECO INSURANCE COMPANY OF AMERICA  
GENERAL INSURANCE COMPANY OF AMERICA  
FIRST NATIONAL INSURANCE COMPANY  
OF AMERICA  
HOME OFFICE: SAFECO PLAZA  
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (BLM Bond No. MT0576)

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

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

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

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

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

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

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

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

Signed and Sealed 4/10/89  
(MONTH, DAY, YEAR)  
EQUITABLE RESOURCES ENERGY COMPANY  
PRINCIPAL

By: \_\_\_\_\_ TITLE  
SAFECO INSURANCE COMPANY OF AMERICA  
SURETY

By: R. George Voinchet ATTORNEY-IN-FACT



POWER OF ATTORNEY

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

EXHIBIT "E" Page 4 of 4  
3798

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

KNOW ALL BY THESE PRESENTS:

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

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

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

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

this 4th day of September, 19 87.

CERTIFICATE

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

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

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

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

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

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

this 10th day of April, 19 89.



# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

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

May 6, 1993

**Subject:** CULTURAL RESOURCE EVALUATION OF NINE PROPOSED  
WELL LOCATIONS IN THE CASTLE PEAK DRAW LOCALITY OF  
DUCHESNE AND Uintah COUNTIES, UTAH

**Project:** Balcron Oil Company -- 1993 Development Program for the  
Monument Butte Lease Area Units: 41-18, 14-8, 21-13Y, 21-25Y,  
41-21Y, 21-9, 44-14Y, 24-3Y, and 22-10Y

**Project No.:** BLCR-93-1

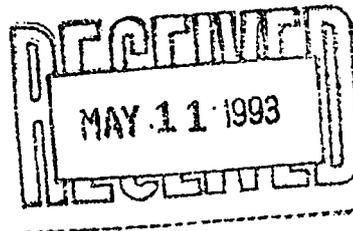
**Permit No.:** Dept. of Interior -- UT-92-54937

**Utah State No.:** UT-93-AF-158b

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

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

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



5-13-93 NOTE: The access  
route on our 41-214 was  
changed at the onsite.  
The new access will be  
re-evaluated and a  
supplemental report  
submitted/mw

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

Dept. of Interior Permit No.: UT-92-54937  
AERC Project 1373 (BLCR-93-1)

Utah State Project No.: UT-93-AF-158b

Principal Investigator: F. Richard Hauck, Ph.D.  
Author of Report: Glade Hadden

ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)

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

May 6, 1993

## ABSTRACT

Intensive cultural resource evaluations have been conducted for Balcron Oil Company of seven proposed well locations on federal lands in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah. The examinations of these nine locations involved a total of 119.1 acres of which 29.1 acres (4 miles) includes eight separate access routes associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. The remaining 90 acres involves ten acre parcels at all nine of the proposed Units (41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y and 22-10Y). These evaluations were conducted on May 3 and 4, 1993 by archaeologist Glade Hadden under the supervision of F. Richard Hauck.

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

One newly identified cultural resource activity locus was evaluated and recorded during the examinations. This site (42UN 2062) consists of a non-significant lithic scatter associated with proposed Unit 44-14Y.

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

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## GENERAL INFORMATION

On May 3 and 4, 1993, archaeologist Glade Hadden acting under the supervision of F.R. Hauck, conducted intensive cultural resource evaluations for Balcron Oil Company of Billings, Montana. These examinations involved nine separate well locations (41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y and 22-10Y) and eight linear access route evaluations totaling 4 miles associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. This project area is situated in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah.

This project is situated on federal lands administered by the Diamond Mountain Resource Area of the Vernal District of the Bureau of Land Management.

The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed development of these well locations requires an archaeological evaluation in compliance with the 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.

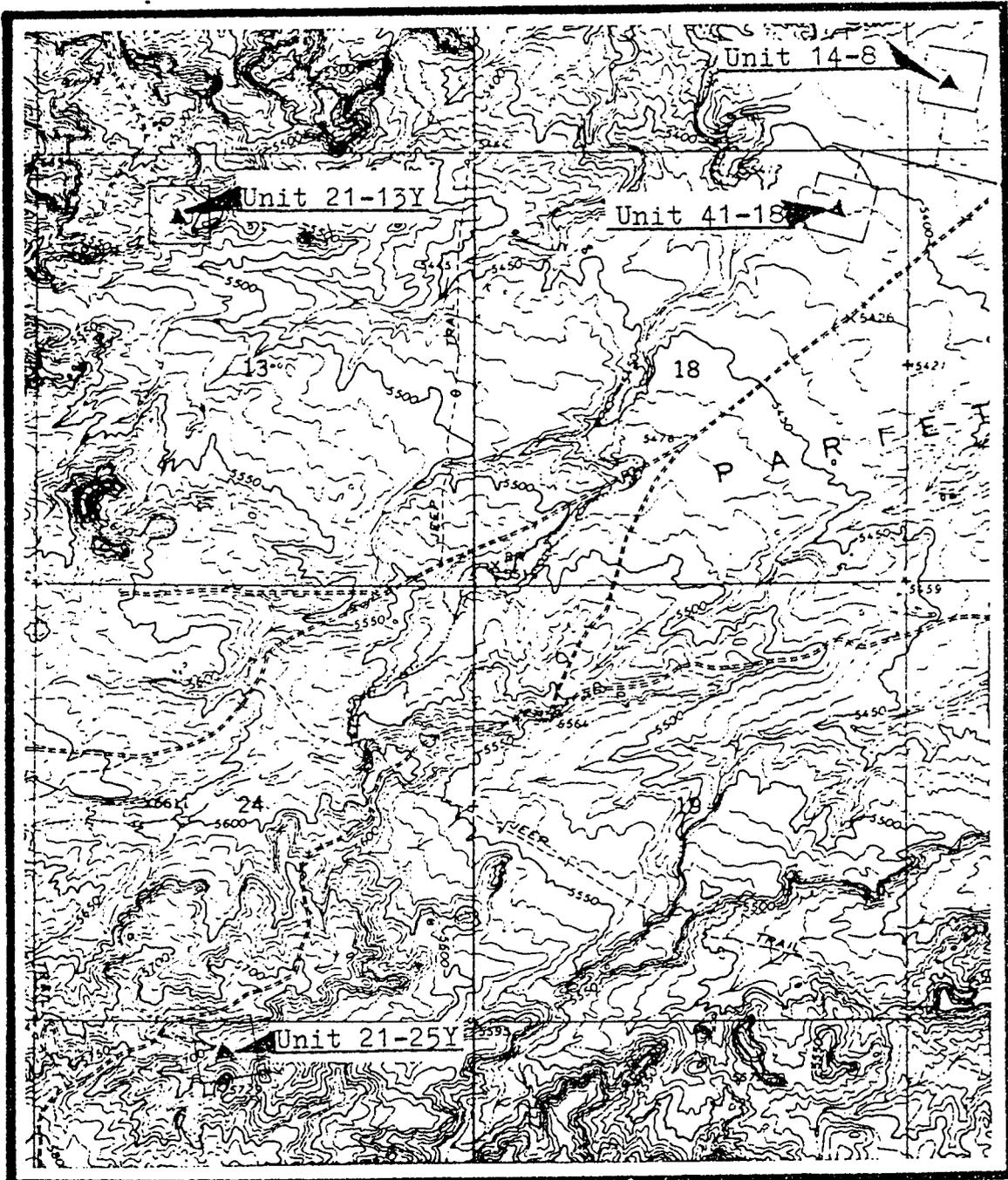
In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Vernal District Office of the Bureau of Land Management relative to the locations on public lands, and to the Antiquities Section of the Utah State Division of History. This work was done under U.S. Department of Interior Permit for Utah UT-92-54937 which expires on January 31, 1994.

The nine evaluated well locations included nine 10 acre parcel evaluations for a total of 90 acres. A series of 15 to 20 meter-wide survey transects were walked within the 60 foot-wide corridors associated with the eight access routes covering a total distance of 4 miles or some 29.1 acres. A total of 119.1 acres were examined during this inventory.

### Project Location

The project location is in the Vernal District of the Bureau of Land Management. It is situated on the Myton SE, Myton SW and Pariette Draw SW 7.5 minute topographic quads as shown on the attached maps.

AERL



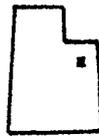
T. 9 South  
 R. 16 and 17 E  
 Meridian: S.L.B.M.  
 Quad: Myton SE,  
 Utah

**MAP 1**  
 Cultural Resource Survey  
 of Balcron Units 41-18,  
 14-8, 21-13Y and 21-25Y,  
 Castle Peak Draw Area

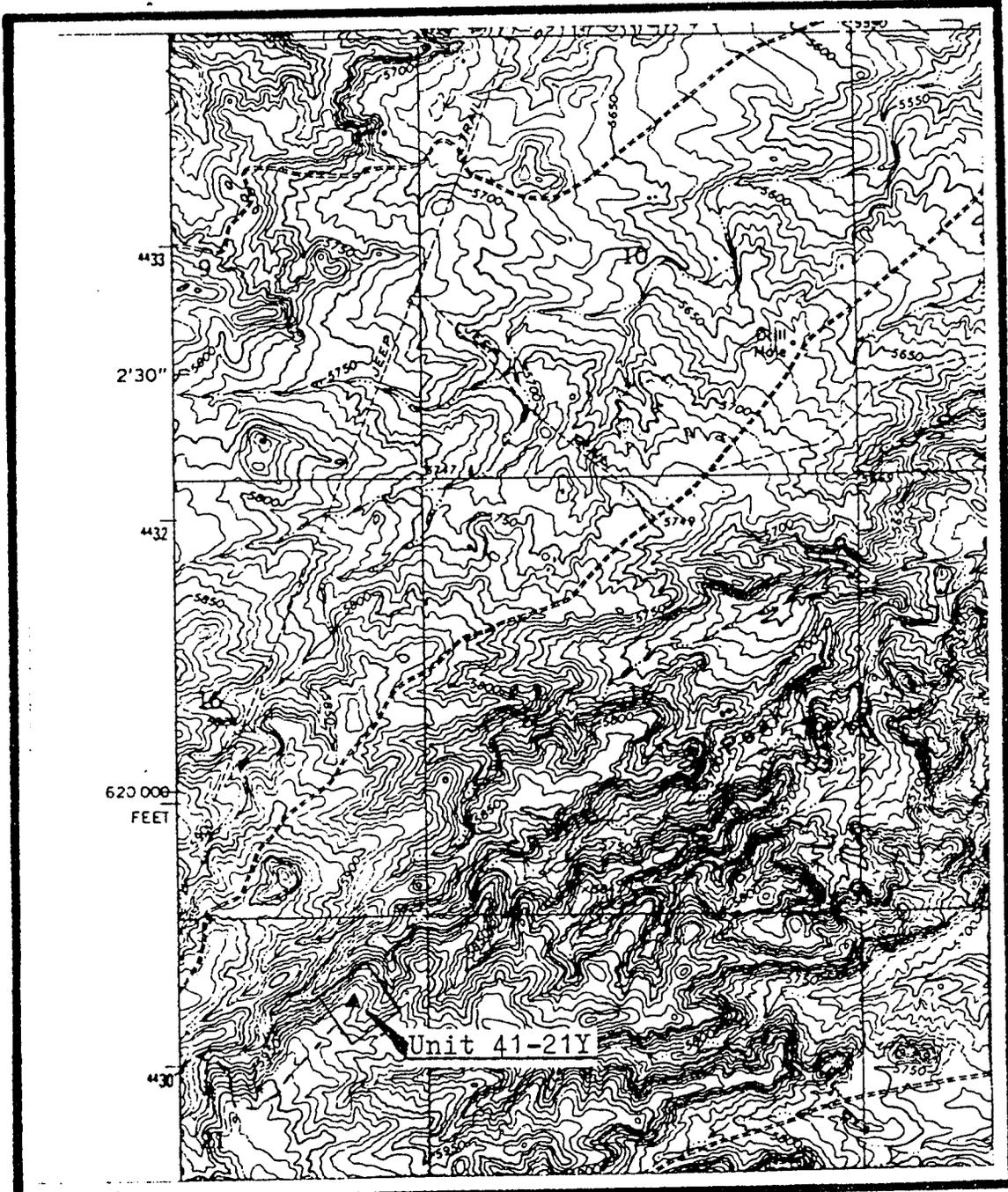
**Legend:**  
 Well Location ▲  
 Access Route - - - -

4  
 |  
 N

Project: BLCR-93-1  
 Series: Uinta Basin  
 Date: 5-6-93



AERC



T. 9 South  
 R. 16 East  
 Meridian: S. L. B. M.  
 Quad: Myton SE  
 Utah

**MAP 2**  
 Cultural Resource Survey  
 of Balcron Unit 41-21Y in  
 the Castle Peak Draw area  
 of Duchesne County

**Legend:**  
 Well Location ▲  
 Access Route - - - - -

4  
 |  
 N

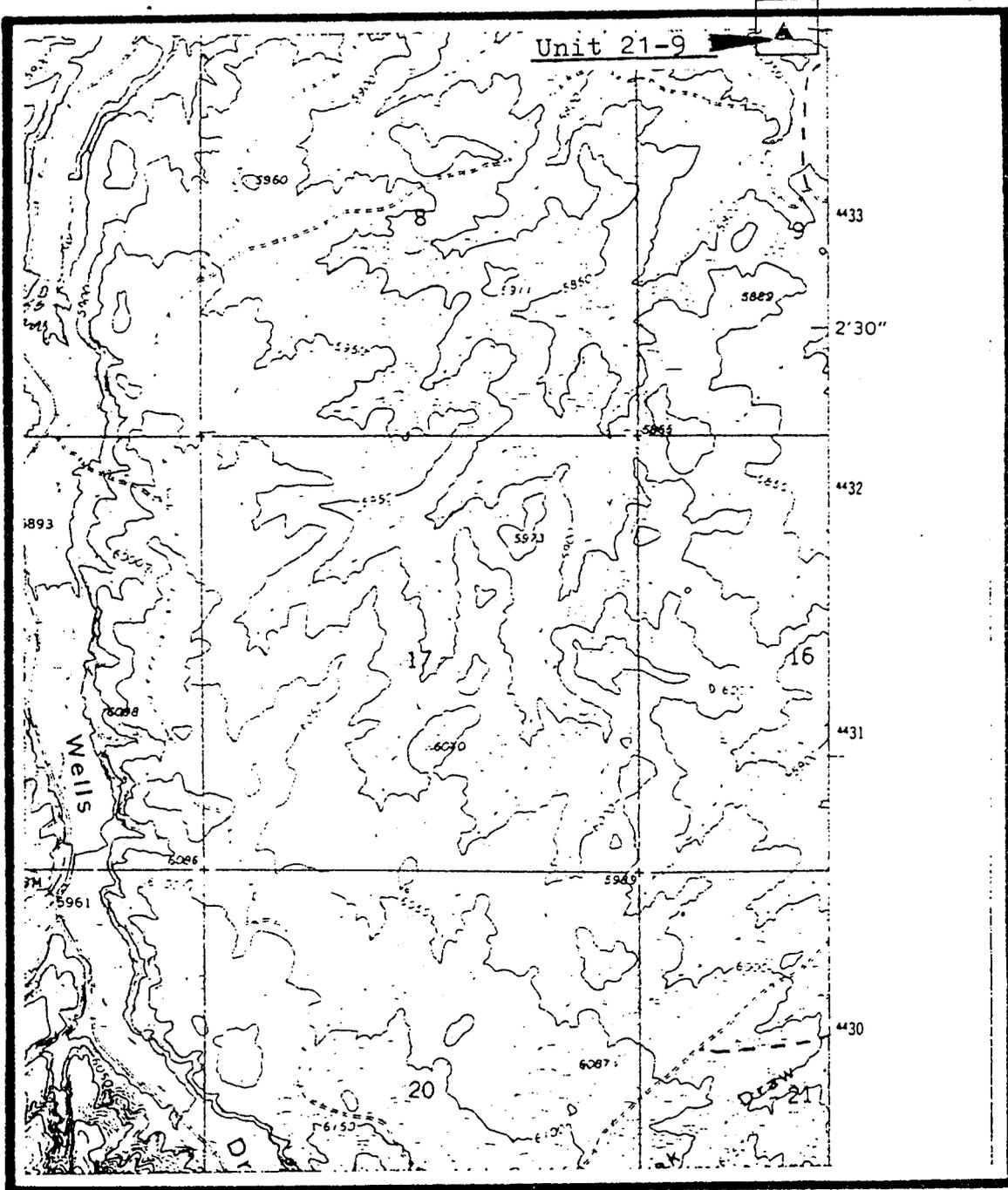
Project: BLCR-93-1  
 Series: Uinta Basin  
 Date: 5-6-93

Scale: 1:24,000

3



AERC



T. 9 South  
 R. 16 East  
 Meridian: S.L.B.M  
 Quad: Myton SW,  
 Utah

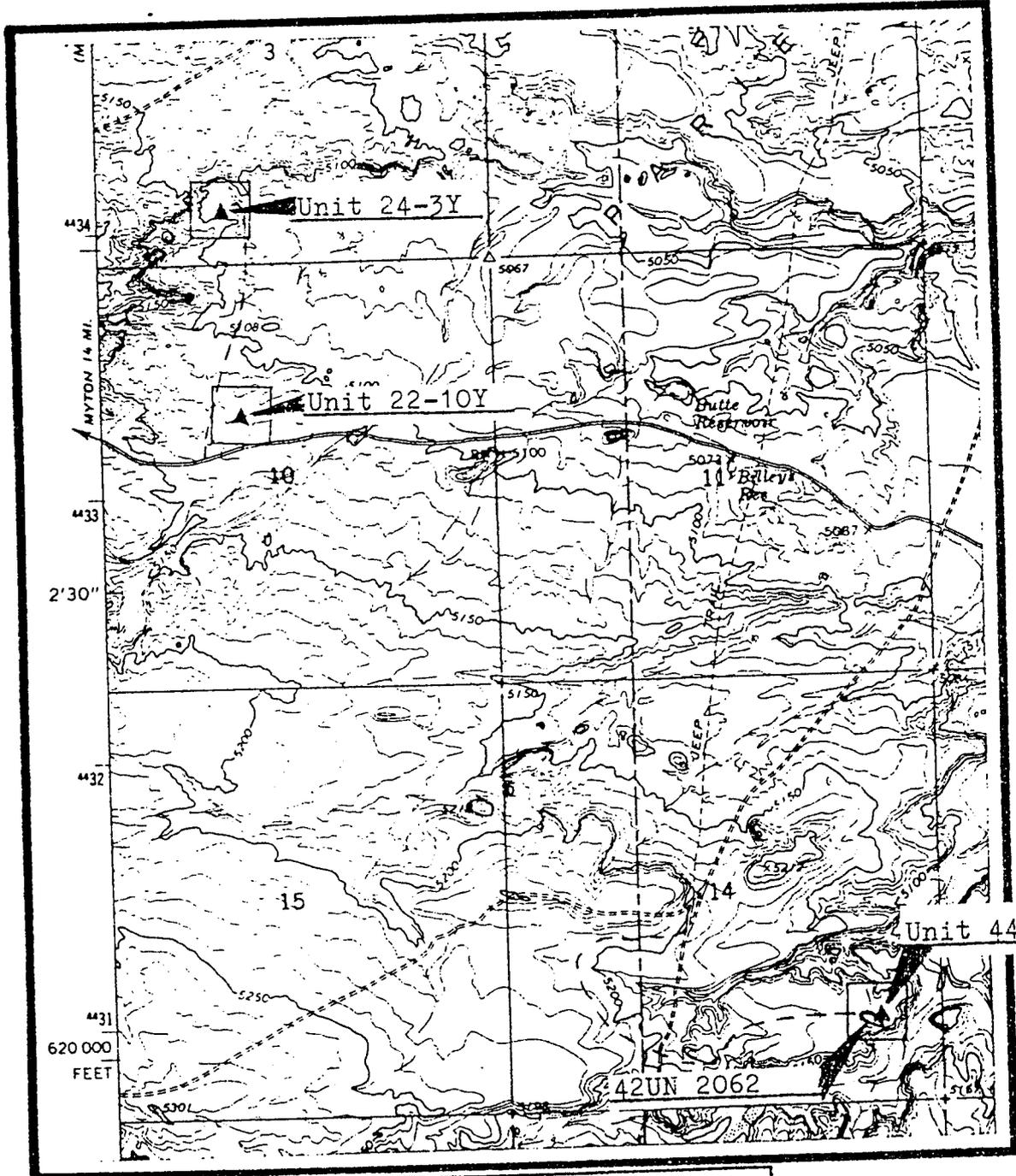
**MAP 3**  
 Cultural Resource Survey  
 of Balcron Unit 21-9 in the  
 Castle Peak Draw Area of  
 Duchesne County

**Legend:**  
 Well Location   
 Access Route 

4  
 N

**Project:** BLCR-93-1 **Scale:** 1:24,000  
**Series:** Uinta Basin  
**Date:** 5-6-93





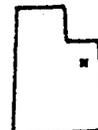
T. 9 South  
 R. 17 East  
 Meridian: S.L.B.M.  
 Quad: Pariette  
 Draw SW,  
 Utah



Project: BLCR-93-1  
 Series: Uinta Basin  
 Date: 5-6-93

**MAP 4**  
 Cultural Resource Survey  
 of Balcron Units 44-14Y,  
 24-3Y and 22-10Y in the  
 Castle Peak Draw Area

Scale: 1:24,000



**Legend:**

- Well Location ▲
- Access Route - - - -
- Cultural Site ○

Unit 41-18 is situated in the NE - NE quarter of Section 18, Township 9 South, Range 17 East. Its access route extends for ca. .2 mile to the southwest from an existing road traversing the northeastern corner of that section (see Map 1).

Unit 14-8 is in the SW - SW quarter of Section 8 of that same township and range. An access route extends ca. .2 mile northeast from the same existing road to the location (see Map 1).

Unit 21-13Y is situated in Section 13, Township 9 South, Range 16 East. This unit is situated in the NE - NW quarter of that section (see Map 1). Its access route extends ca. .5 mile east along an existing jeep trail, then southeast onto the location.

Unit 21-25Y is in the NE - NW of section 25 of Township 9 South, Range 16 East. The unit is accessible via a ca. .2 mile-long access that begins at an existing road which crosses the NW corner of that section, and extends to the southeast to the well location.

Unit 41-21Y is located in the NE - NE quarter of Section 21, Township 9 South, Range 16 East (see Map 2). Its 1 mile-long access begins at an existing roadway to the southwest of the location (see Map 3).

Unit 21-9 is also located in Township 9 South, Range 16 East. It is situated in the NE - NW quarter of Section 9 (see Map 3). This unit has a ca. .4 mile access route which will connect the location with the existing road to the south of the location (see maps 2 and 3).

Unit 44-14Y is located in the SE - SE quarter of section 14, Township 9 South, Range 17 East. A ca. 1 mile access route links the unit with an existing one lane jeep trail to the west, near the center of section 14. This jeep trail, in turn, connects with a road/pipeline corridor ca. .5 mile to the north (see map 4).

Unit 24-3Y is situated in the SE - SW quarter of section 3, Township 9 South, Range 17 East. A ca. .5 mile access route connects the unit to the main Castle Peak / Pariette Bench road to the south (see map 4).

Unit 22-10Y is in the SE - NW quarter of section 10 in that same township and range. The unit is located immediately adjacent to the access route leading to unit 24-3Y (see map 4).

#### Environmental Description:

The project areas range within the 5100 to 5900 foot elevation zone above sea level. Open rangeland terrain surfaces are associated with all locations.

The vegetation in the project area includes *Chrysothamnus spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Artemesia tridentata*, *Atriplex canescens*, and *Bromus tectorum*.

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

## PREVIOUS RESEARCH IN THE LOCALITY

### File Search

Records searches of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City were conducted on May 5, 1993. A similar search was conducted in the Vernal District Office of the BLM on May 3, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Castle Peak Draw locality. Most of these prehistoric resources, including 42DC 349, 350, 351, 352, 353, 732, 761, 763 and 765 have been identified and recorded by AERC during previous evaluations (Hauck 1981, 1992a, 1992b, 1992c, 1992d). Additional sites previously recorded in this locality include Sites 42DC 423, 424, and 425 which were documented by Sagebrush (Polk 1982), 42DC 382 identified by Grand River (Babcock 1981), and 42DC 539, 540, 541, 542, 543 and 556 recorded by BLM Archaeologist Blaine Phillips in 1983.

One site identified in the project area during the search may be affected. Site 42DC 765 is a lithic scatter/rockshelter complex located by AERC during a previous evaluation for Balcron in the area (Hauck 1992e). This site is located in section 8, adjacent to the proposed development area for unit 14-8, ca. 100 meters from the impacted area (see map 1). Site 42DC 765, while not directly affected by the proposed development may be adversely affected by the increased availability of access to the site.

### 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 region 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. Open occupations are also known in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle 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., the Fremont Culture, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and principal tributaries.

The majority of known sites in this project area are lithic scatters (42DC 349, 350, 353 and 763). Open occupations such as 42DC 352 are also present. Sites 42DC 351 and 761 are rock shelters. Based on the recovery of a Folsom point and a Desert Side-notch arrow point, a possible Paleoindian component and a more recent Numic component exist on Site 42DC 353. Sites in the project locality generally appear to have been occupied during the Archaic Stage and the Late Prehistoric Period.

Site density in Castle Peak Draw appears to range from six to over ten sites per section. This moderate to high density decreases substantially on the benches.

## FIELD EVALUATIONS

### Methodology

Intensive evaluations were accomplished within each survey area by the archaeologist walking 10 to 20 meter-wide transects within each ten acre parcel associated with a well location. In addition, double 15 to 20 meter-wide transects were walked flanking the flagged centerline. Thus, ca. 4 miles or 29.1 acres of public lands associated with the eight access routes and another 90 acres associated with the nine well locations were examined by Glade Hadden acting under the direction of F. Richard Hauck, the Principal Investigator.

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:

One non-significant prehistoric cultural resource activity locus was observed, evaluated and recorded during the archaeological evaluations. This site has been subsequently listed in the State and BLM files as 42UN 2062.

Site 42UN 2062 (see map 4) consists of a 20 x 100 meter lithic scatter that is predominantly composed of locally procured Parachute Creek chert nodules, primary and secondary flakes and a single non-diagnostic bifacially prepared

artifact. Detritus spread extends ca. 100 meters along the top of a bench associated with well location 44-14Y. Most of the site lies within the proposed development zone or access route for the unit. A small (ca. 2 x 10 meter) concentration of 6 primary and secondary flakes is associated with the single artifact. This small concentration lies entirely outside the proposed development area for the well location but is within the proposed access route. A more widely dispersed distribution of primary flakes and core fragments extending along the bench indicates limited prehistoric lithic testing and procurement activity at this site. Little potential exists for buried deposits, and no other features were noted. Site integrity is good to excellent, with the only noted impact agent being erosion, however potential for extensive occupational strata and material deposits is low. Temporal and cultural associations for this site are presently unknown; no diagnostic artifacts or exposed features were observed during the survey.

This site is a non-significant resource. There exists little potential for providing any pertinent or valuable information on the prehistory of the region relative to criterion d of Title 36 CFR 60.6.

None of the previously recorded cultural sites in this project locality will be adversely affected by the proposed developments, with the possible exception of site 42DC 765. This site, while not directly affected, may be adversely impacted by the increased availability of access provided by the development of unit 14-8.

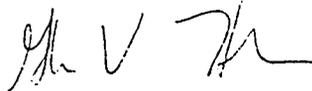
No isolated diagnostic artifacts were observed or collected during the survey. A single non-diagnostic artifact associated with site 42UN 2062 was collected.

## CONCLUSION AND RECOMMENDATIONS

The development and maintenance of these nine locations will not have any direct adverse effect on any NRHP eligible cultural resources in this locality.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the development of the nine well locations noted above based upon adherence to the following stipulations:

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



Glade Hadden  
Field Archaeologist



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

## REFERENCES

Babcock, T.

1981

Report on Cultural Resources Identified During an Inventory of Proposed Lomax 1-26 Well Location in the Monument Buttes Area of Duchesne County, 11/12/81. Report Prepared for Grand River Consultants, Grand Junction.

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 (AERC), 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 (AERC), 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 (AERC), 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 (AERC), 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 (AERC), Bountiful.

1992e Cultural Resource Evaluation of 7 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 (AERC), Bountiful.

Polk, Michael

1982 Cultural resource inventory of NGC Well No. 12-8h. Report prepared by Sagebrush Archaeological Consultants, Ogden.

Report Acceptable Yes  No

Mitigation Acceptable Yes  No

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

Summary Report of  
 Inspection for Cultural Resources

MONUMENT BUTTES 9 WELL UNITS

1. Report Title . . . . .

BALCRON OIL CO. (14-8, 41-18, 24-3Y, 22-10Y, 44-14Y, 41-21Y, 21-9,  
 21-13Y, 21-25Y)

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

3. Report Date . . . . . 0 5 06 1 9 9 3 4. Antiquities Permit No. UT-92-54937

A E R C B L C R - 9 3 - 1 Uintah and Duchesne

5. Responsible Institution . . . . . County \_\_\_\_\_

6. Fieldwork

0 9 S 1 7 E 0 3 0 8 1 0 1 4  
 1 8

7. Resource Location: TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
 Area TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
 .D.M.

8. Description of Examination Procedures: The archeologist, Glade Hadden, acting under the direction of F.R. Hauck intensively examined nine 10 acre well parcels and associated access routes by walking a series of 10 to 20 meter-wide transects within the locations and along the flagged access centerlines.

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

11. Description of Findings: One cultural resource site was identified during the survey. Site 42UN 2062 is a lithic scatter. One biface was collected. This site is non-significant.  
 12. Number Sites Found .1. . . . . (No sites = 0)  
 13. Collection: .Y. Y = Yes, N = No)

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

15. Literature Search, Location/ Date: Utah SHPO 5-5-93 Vernal District Office Records 5-3-93

---

16. Conclusion/ Recommendations:

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

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

---

17. Signature of Administrator  
& Field Supervisor

UT 8100-3 (2/85)

Administrator

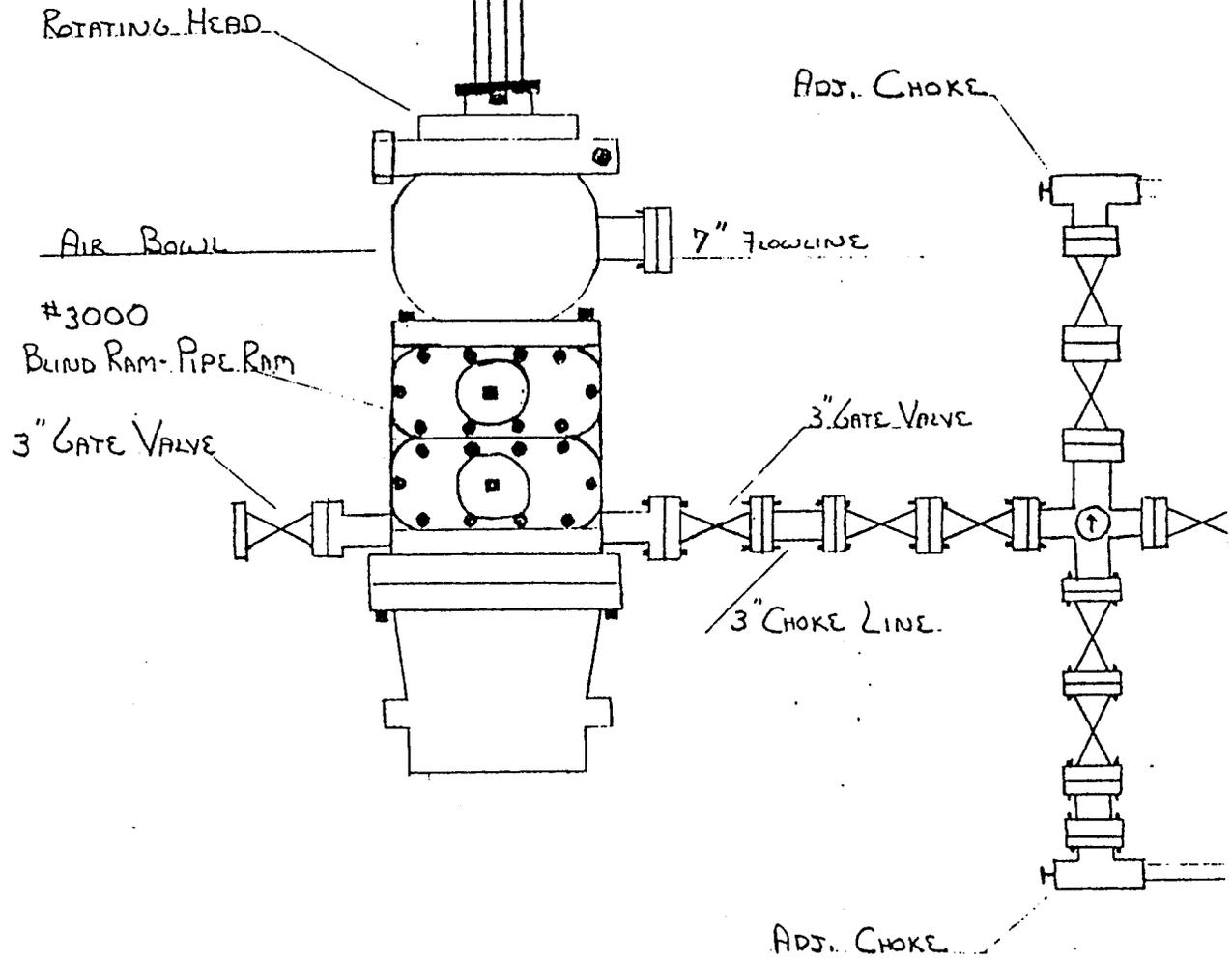
Field  
Supervisor

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UNION DRILLING RIG #17

Hex Kelly

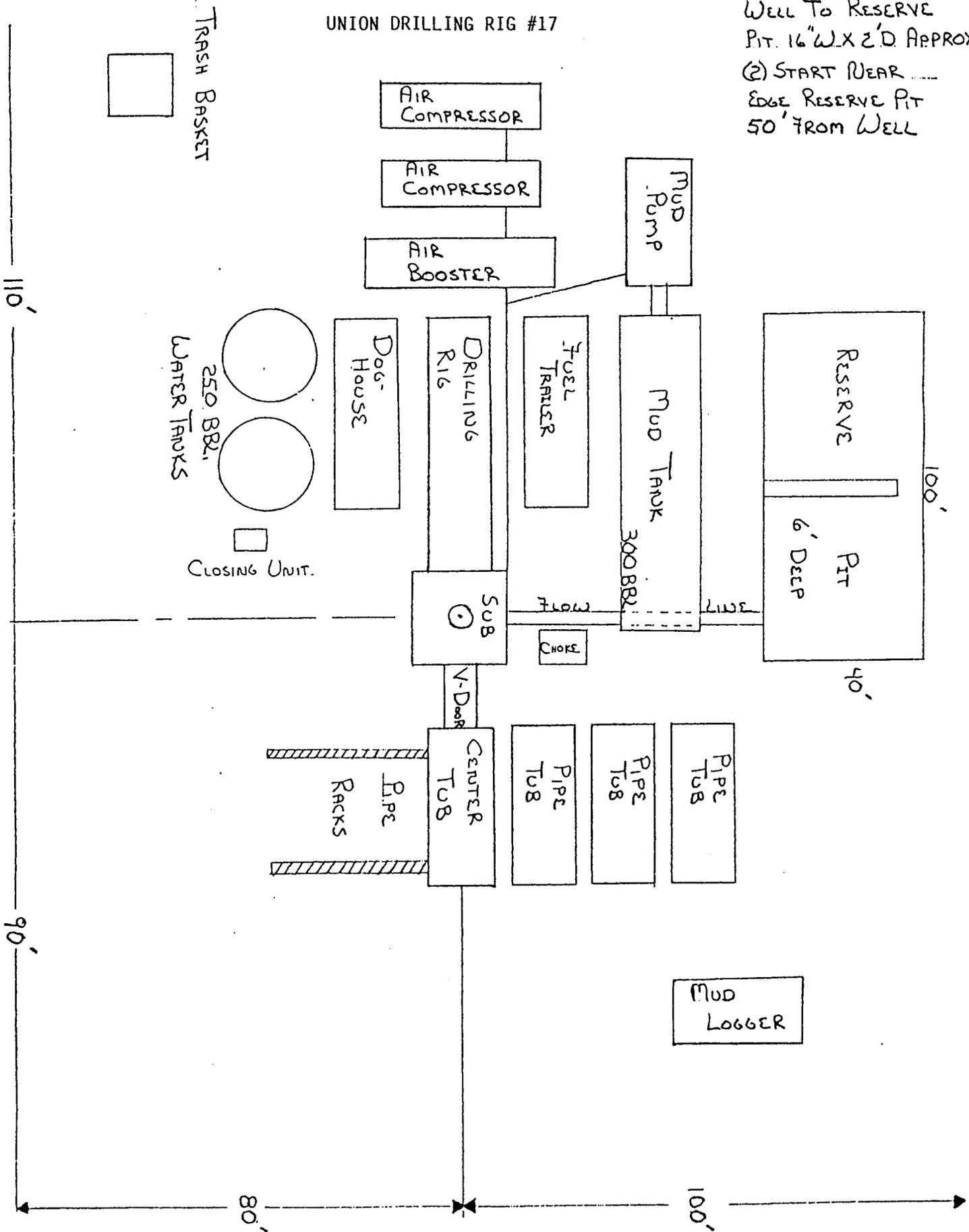


#3000 Stack

EXHIBIT "I"

UNION DRILLING RIG #17

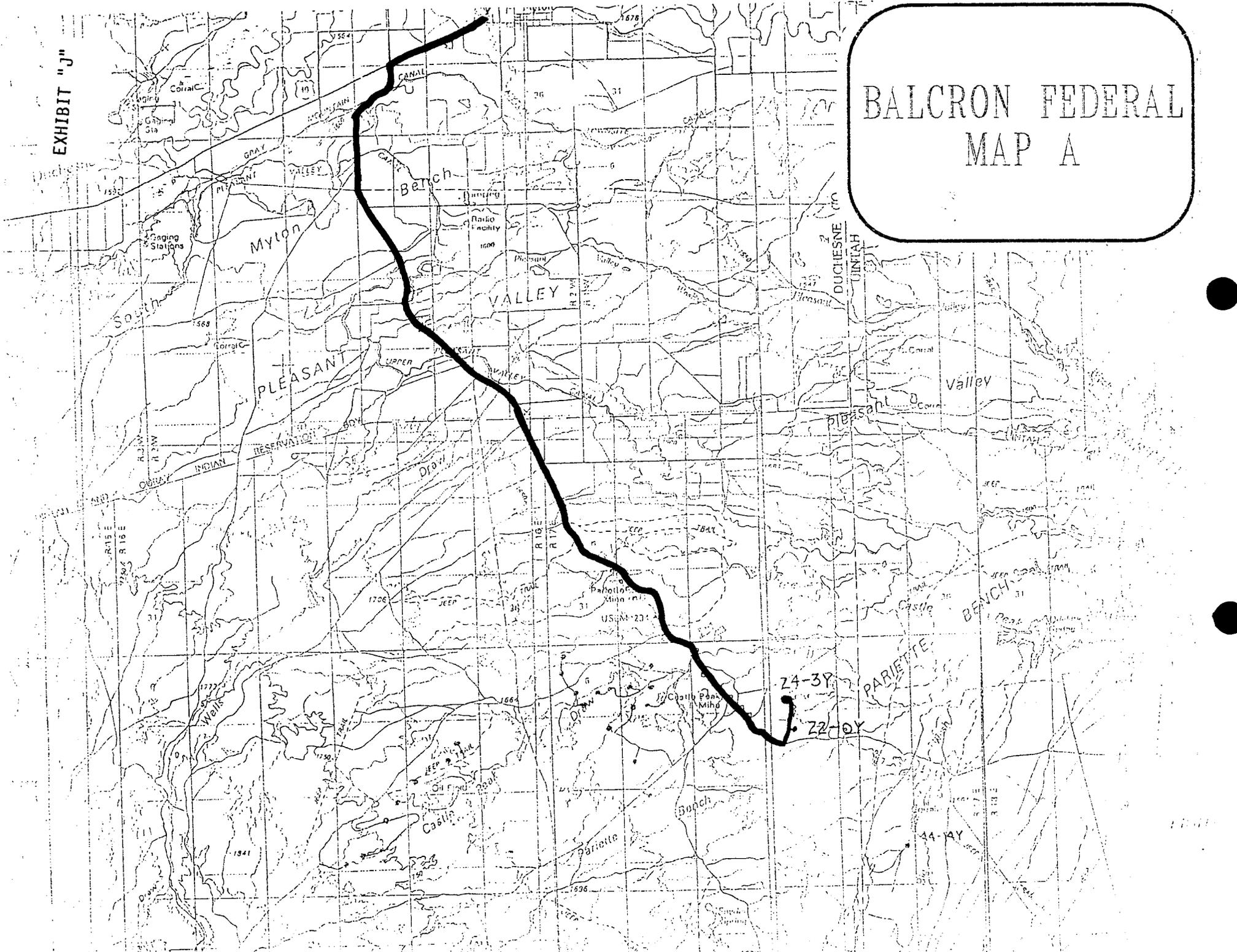
- (1) CUT DITCH FROM WELL TO RESERVE PIT. 16" W X 2' D APPROX
- (2) START NEAR EDGE RESERVE PIT 50' FROM WELL



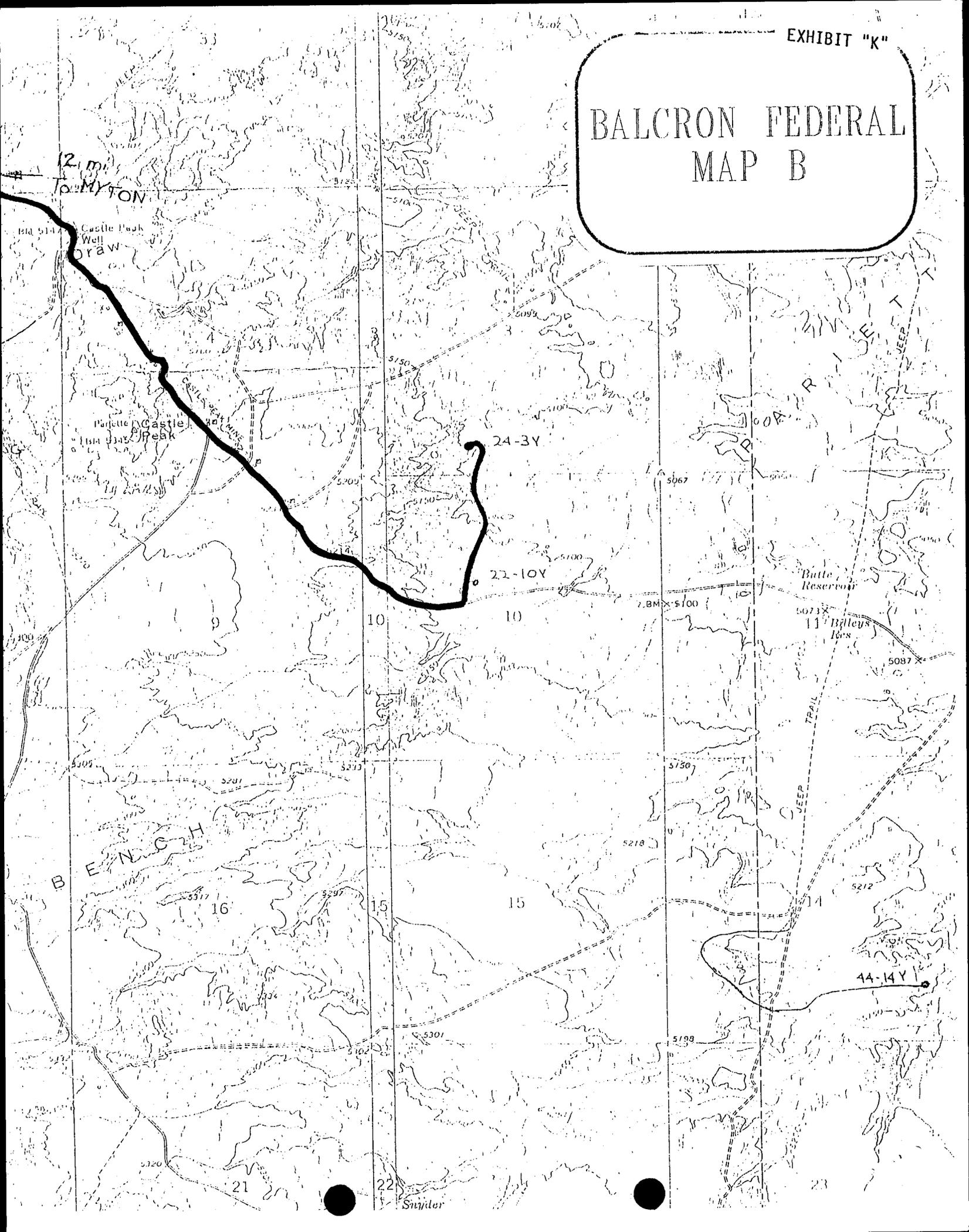
150

EXHIBIT "J"

BALCRON FEDERAL  
MAP A



# BALCRON FEDERAL MAP B



12 mi  
To MYTON

BENCH

Snijder

Butte Reservoir

Baileys Res

TRAIL  
JEEP

24-3Y

22-10Y

44-14Y

21

22

23

10

10

15

15

16

11

7.BM x 5100

5067

5073

5087

5212

5218

5150

5150

5150

5100

5100

5200

5150

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5300

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5320

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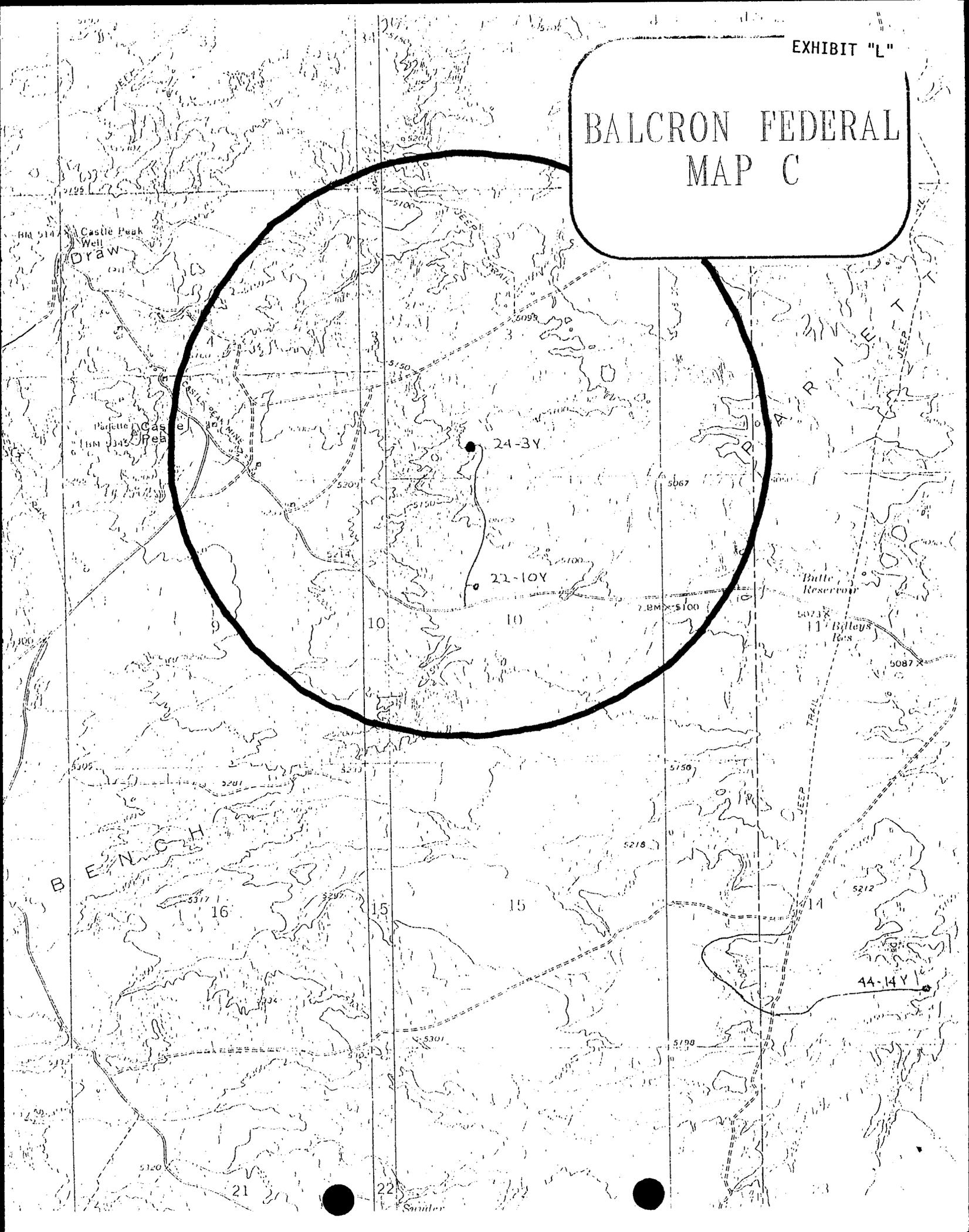
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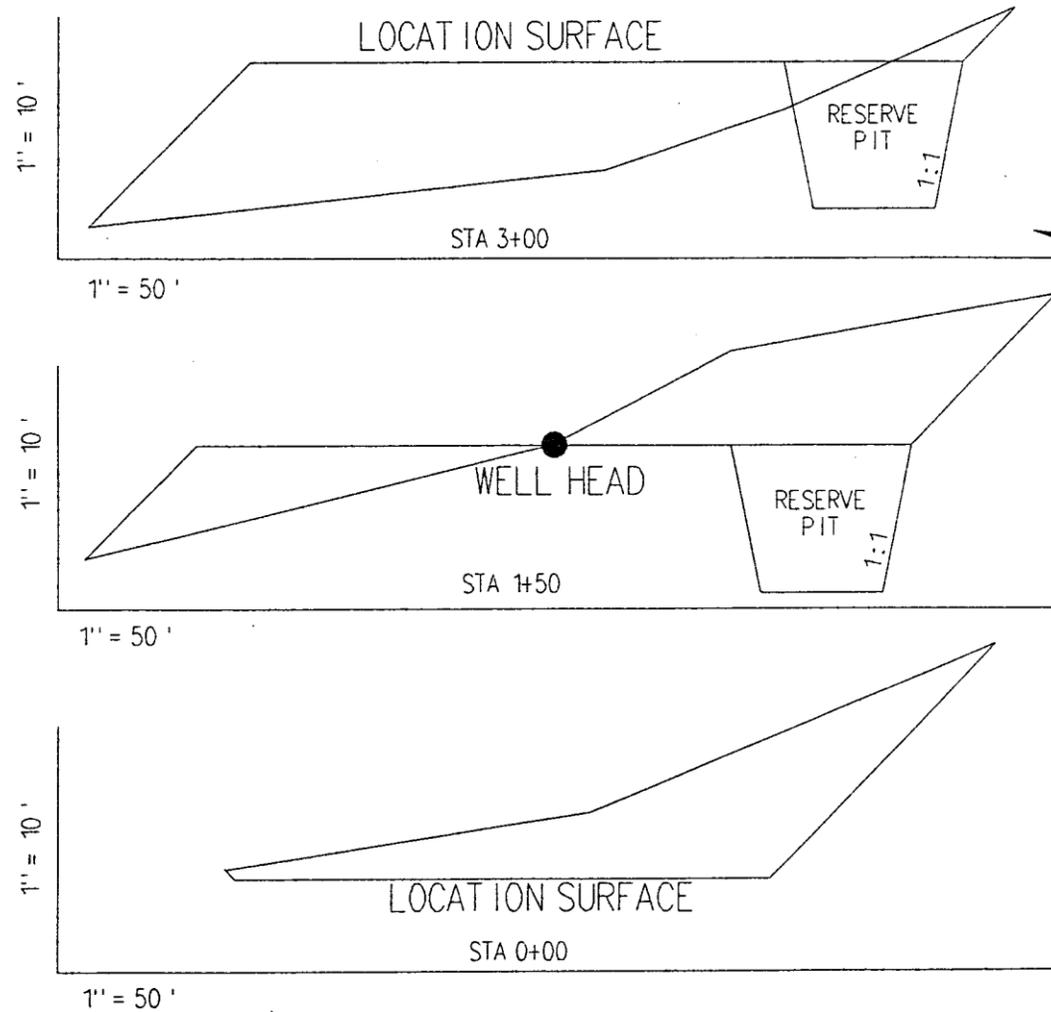
5100

# BALCRON FEDERAL MAP C



# BALCRON FEDERAL

WELL LOCATION # 24-3Y  
 PLAT #1

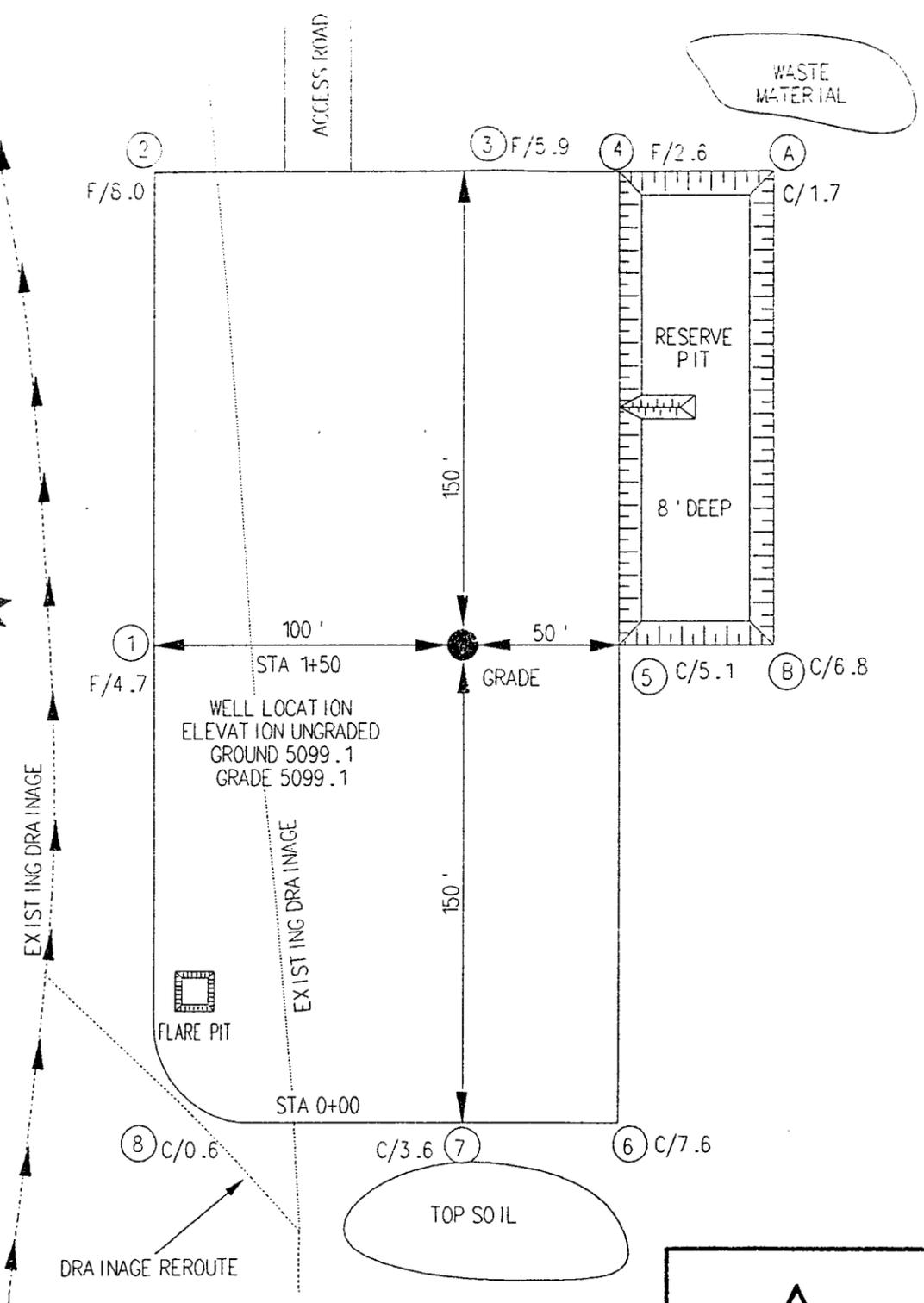


REFERENCE POINTS

- 150' NORTH - 5094.4
- 200' NORTH - 5094.8
- 210' WEST - 5105.7
- 240' WEST - 5107.7

APPROXIMATE YARDAGE

- CUT = 4,531 Cu Yds
- FILL = 3,525 Cu Yds
- PIT = 1,867 Cu Yds
- TOP SOIL = 971 Cu Yds



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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 05/20/93

OPERATOR: EQUITABLE RESOURCES  
WELL NAME: BALCRON FEDERAL 24-3Y

OPERATOR ACCT NO: N- 9890

API NO. ASSIGNED: 43-013-31397

LEASE TYPE: FED LEASE NO: J-64381  
LOCATION: SESW 03 - T09S - R17E DUCHESNE COUNTY  
FIELD: MONUMENT BUTTE (105) FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

- Plat
- Bond  
(Number federal)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
(Number 43-9974 a-14289)
- 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: Two add producing wells within Sec 3  
Corrected plat map will be sent per Bolive Schuman

STIPULATIONS:

cc: Duchesne county assessor

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 9-14-94



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

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

Office: (406) 259-7860

FAX: (406) 245-1365 [ ]

FAX: (406) 245-1361 [X]

RECEIVED

JUN 04 1993

DIVISION OF  
OIL GAS & MINING

June 2, 1993

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

As requested, enclosed is a copy of the State Water Use Authorization (Water User Claim No. 43-9974) which is the water source we propose to use for drilling the wells on the enclosed list. Also enclosed as requested is an explanation of the composition of the thrifty lite cement including water, all additives, and stating its yield.

Am I correct in assuming that the 30-day posting period began as of the date the Notice of Staking was received by your office (May 3 according to the date agreed upon at the onsite inspections held May 5-6) as required and stated by 43 CFR 3162.3-1(g) rather than the May 20 date the APD was received by your office? If my interpretation of 43 CFR 3162.3-1(g) is incorrect, I would appreciate a call to discuss this.

If you need further information or have any questions, please call.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

MONUMENT BUTTE DRILLING PROGRAM

---

Balcron Federal #21-25Y  
NE NW Section 25, T9S, R16E  
Duchesne County, Utah  
198.4' FNL, 2302.2' FWL  
FLS #U-64380  
PTD 5,650'  
GL 5684.9'

Balcron Federal #41-21Y  
NE NE Section 21, T9S, R16E  
Duchesne County, Utah  
970.2' FNL, 893.8' FEL  
FLS #U-64379  
PTD 6,000'  
GL 5953.5'

Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah  
561.8' FSL, 1887.2' FWL  
FLS #U-64381  
PTD 5,950'  
GL 5099.1'

Balcron Federal #21-9Y  
NE NW Section 9, T9S, R16E  
Duchesne County, Utah  
476.2' FNL, 2051' FWL  
FLS #U-65207  
PTD 6,190'  
GL 5747.3'

Balcron Federal #21-13Y  
NE NW Section 13, T9S, R16E  
Duchesne County, Utah  
702.7' FNL, 1830.5' FWL  
FLS #U-64805  
PTD 5,900'  
GL 5535.5'

Balcron Federal #22-10Y  
SE NW Section 10, T9S, R17E  
Duschene County, Utah  
1980' FNL, 1980' FWL  
FLS #U-65210  
PTD 5,850'  
GL 5121.9'

MONUMENT BUTTE DRILLING PROGRAM

---

Balcron Federal #44-14Y  
SE SE Section 14, T9S, R17E  
Duchesne County, Utah  
1008.2' FSL, 832.3' FEL  
FLS #U-64806  
PTD 5,700'  
GL 5164.3'

Balcron Monument Federal #14-8  
SW SW Section 8, T9S, R17E  
Duchesne County, Utah  
660' FSL, 660' FWL  
FLS #U-007978  
PTD 5,950'  
GL 5370.6'

Balcron Monument Federal #41-18  
NE NE Section 18, T9S, R17E  
Uintah County, Utah  
660' FNL, 660' FEL  
FLS #U-3563-A  
PTD 5,900'  
GL 5406.3'

6/2/93  
/rs

# APPLICATION FOR PERMANENT CHANGE OF WATER

STATE OF UTAH

RECEIVED

APR 17 1987

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

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

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

Changes are proposed in (check those applicable)

\_\_\_\_\_ point of diversion. \_\_\_\_\_ point of return.  
 place of use.  nature of use.

1. OWNER INFORMATION

Name: Owen Dale Anderson \*Interest: \_\_\_\_\_ %  
Address: PO Box 1162 Vernal UT 84078

2. \*PRIORITY OF CHANGE: \_\_\_\_\_ \*FILING DATE: \_\_\_\_\_

\*Is this change amendatory? (Yes/No): \_\_\_\_\_

3. RIGHT EVIDENCED BY: 43-3525

Prior Approved Change Applications for this right: 83-43-21 84-43-73 6 14099

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

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

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

6. COUNTY: Duchesne

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

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

8. POINT(S) OF REDIVERSION

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

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

9. POINT(S) OF RETURN

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

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

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

10. NATURE AND PERIOD OF USE

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

11. PURPOSE AND EXTENT OF USE

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

12. PLACE OF USE

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

13. STORAGE

Reservoir Name: Unnamed Storage Period: from 11-1 to 3-31  
 Capacity: 4.0 ac-ft. Inundated Area: \_\_\_\_\_ acres  
 Height of dam: \_\_\_\_\_ feet  
 Legal description of inundated area by 40 tract: NW NE Sec 27, T15 R2W 45B & M

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

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

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

18. POINT(S) OF REDIVERSION

The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_  
 Description of Diverting Works: \_\_\_\_\_

19. POINT(S) OF RETURN

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

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

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

20. NATURE AND PERIOD OF USE

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

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

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

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

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

Other: From Jan 1 to Dec 31

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

21. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): \_\_\_\_\_

Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons

Municipal (name): \_\_\_\_\_

Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine

Ores mined: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_

Power: Plant name: \_\_\_\_\_

Other (describe): drilling and completion of oil wells

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: \_\_\_\_\_

\_\_\_\_\_

Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_

Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres

Height of dam: \_\_\_\_\_ feet

Legal description of inundated area by 40 tract: \_\_\_\_\_

\_\_\_\_\_

24. EXPLANATORY

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

Change is for oilfield drilling and exploration.

Approximately 4 acre ft/acre will be taken from

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

\*\*\*\*\*

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

*Diana Dale Anderson*  
Signature of Applicant(s)

6-2-93

TO: Bobbie  
FROM: Dave Mc  
RE: Cement Information

Thrifty Lite Cement Composition:

Class "G" cement with;

4.0% Thrifty Lite \*  
3.0 Lbs/Sk CSE \*  
3.0% salt  
0.25 Lbs/Sk Cello Flakes  
200% Water

\* See Attached product Description

Thrifty Lite Cement Properties:

Slurry Weight:	11.02 Lbs/Gal.
Slurry Yield:	3.58 Cu. Ft./Sk
Mix Water:	22.56 Gal/Sk
Est. Pump Time:	4.0 Hrs
Free Water:	0.0 CC



DV040145

## PRODUCT DESCRIPTIONS

### **CELLO-SEAL**

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

### **CSE**

Compressive Strength Enhancer - Fumed Silica. An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water without the need for standard extenders.

### **CLASS G CEMENT (API) [Premium Cement]**

Intended for use as a basic cement from surface to 8000 Ft. as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

### **SODIUM CHLORIDE (NaCl)**

Commonly called salt, is used to reduce damage caused by cement filtrate and to promote better bonding. At low concentration, less than 10% by weight of mixing water, it acts as an accelerator, while at concentrations greater than 15-18%, it will retard thickening time and strength development.

### **THRIFTY LITE**

Anhydrous sodium metasilicate compound used as an extender for cement slurries. Thrifty Lite yields a very economical filler slurry on a cost per cu. ft. of slurry basis and is a mild accelerator that will cause the slurry to set at low temperatures.



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 21, 1993

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

Gentlemen:

Re: Balcron Federal #24-3Y Well, 562' FSL, 1887' FWL, SE SW, Sec. 3, T. 9 S,  
R. 17 E, Duchesne County, Utah

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

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

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

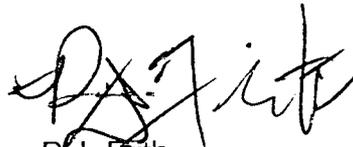


Page 2  
Equitable Resources Energy Company  
Balcron Federal #24-3Y Well  
June 21, 1993

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

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31397.

Sincerely,

A handwritten signature in black ink, appearing to read "R.J. Firth". The signature is stylized and cursive.

R.J. Firth  
Associate Director, Oil and Gas

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

6/22/93

3 sheets

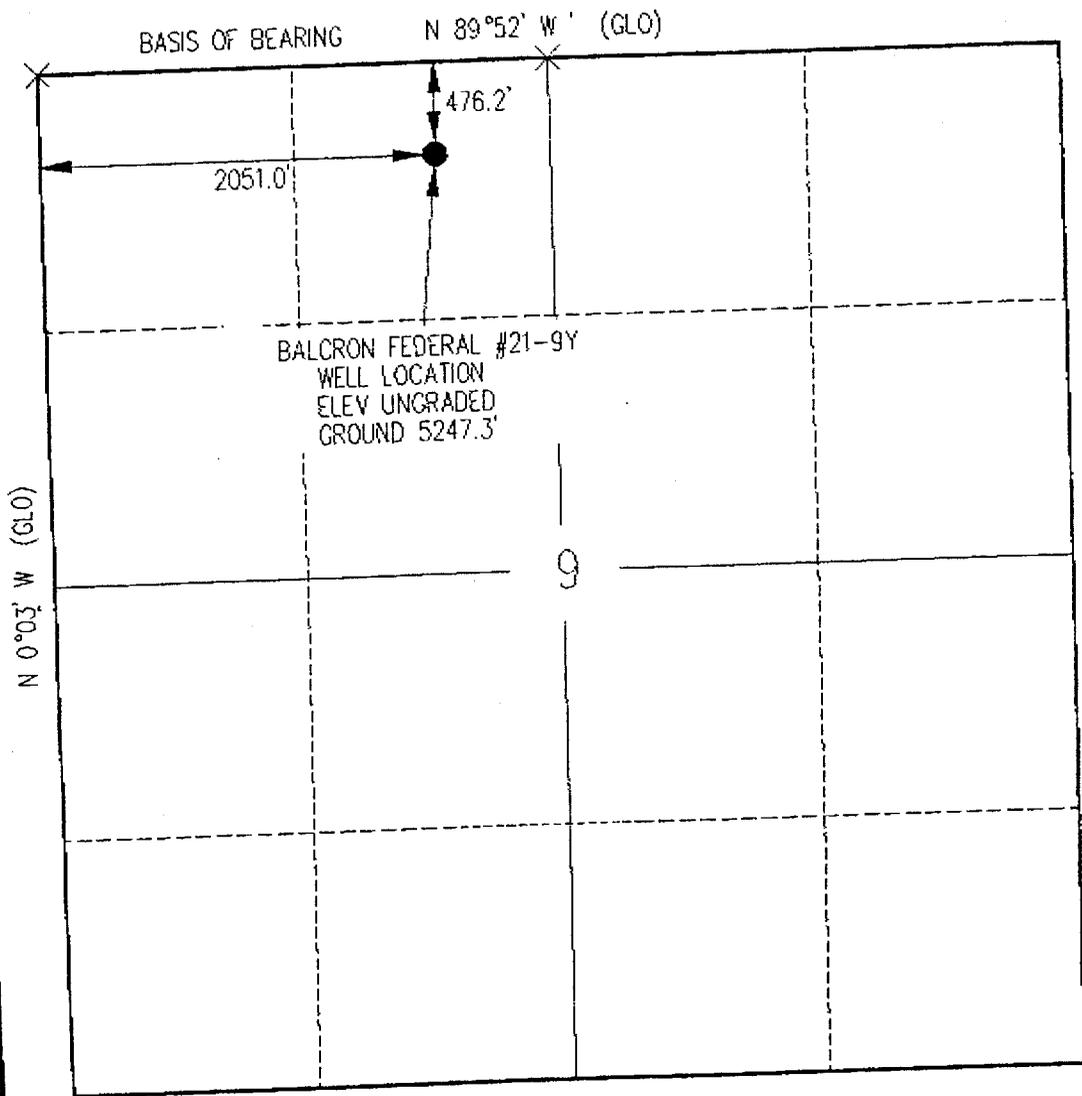
Balcom Oil Location Plats

To Mr. Frank Mathews

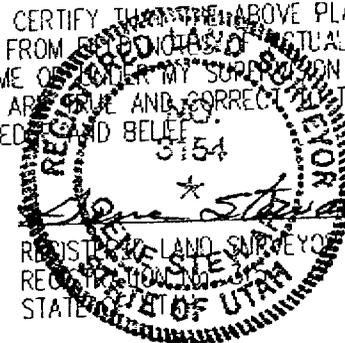
T9S, R16E, S.L.B. & M.

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #21-9Y,  
 LOCATED AS SHOWN IN THE NE 1/4 NW 1/4  
 OF SECTION 9, T9S, R16E, S.L.B. & M,  
 DUCHESNE COUNTY UTAH.



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



TRI STATE LAND SURVEYING & CONSULTING  
 38 EAST 100 NORTH, VERNAL, UTAH 84078  
 (801) 781-2501

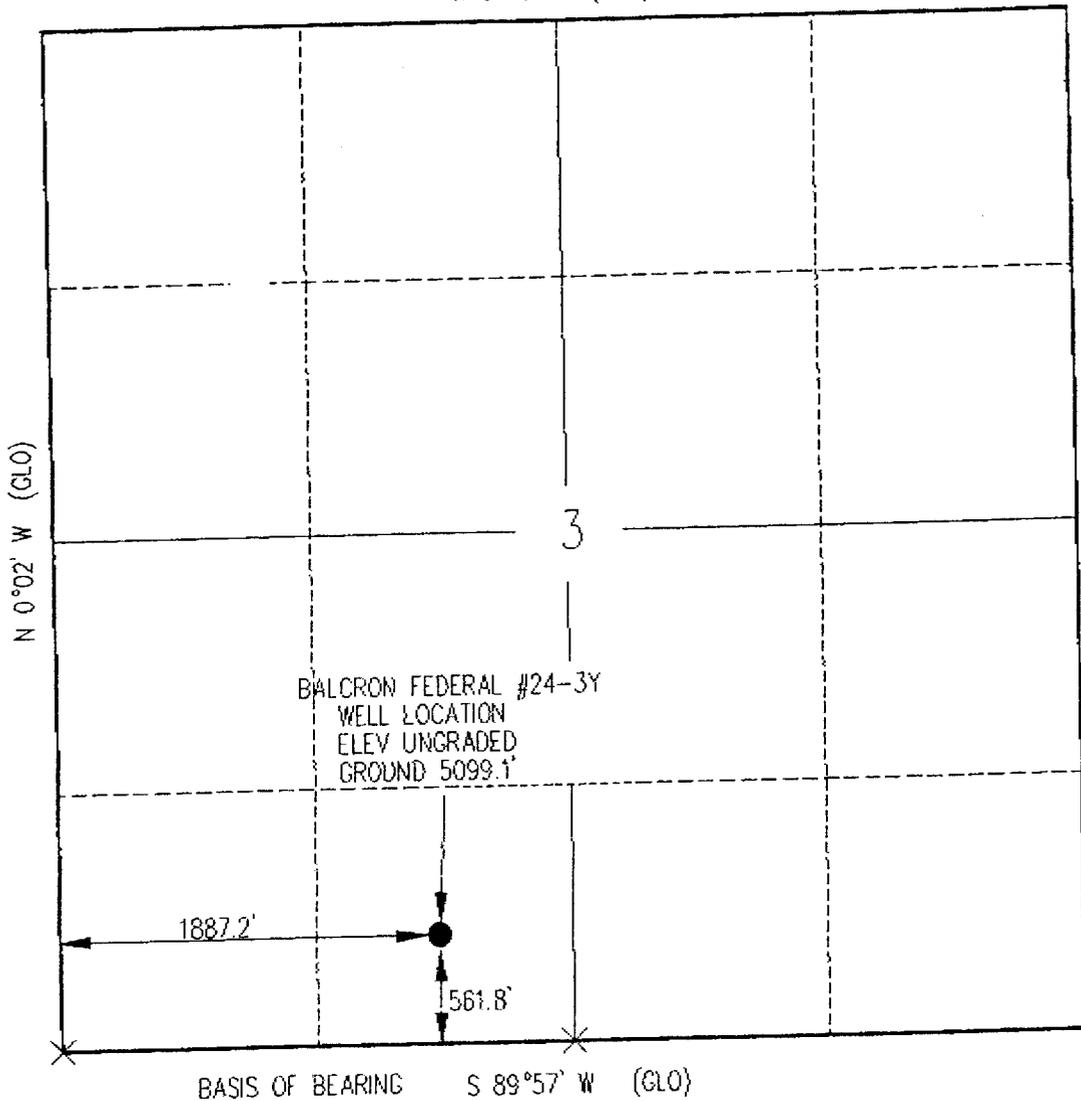
SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/29/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #21-9Y

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

T  
 .  
 O  
 N

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

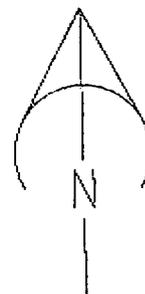
N 89°58' E (GLO)



X = SECTION CORNERS LOCATED  
 BASIS OF BEARINGS; G.L.O. PLAT 1931  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCROON FEDERAL #24-3Y,  
 LOCATED AS SHOWN IN THE SE 1/4 SW 1/4  
 OF SECTION 3, T9S, R17E, S.L.B. & M,  
 DUCHESNE COUNTY UTAH



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

*Sene Stewart*

REGISTERED LAND SURVEYOR  
 REGISTRATION No. 3154  
 STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING 38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/29/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #24-3Y

DOGMA

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

SUBMIT IN TRIPlicate  
(Other instructions on  
reverse side)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
U-64381

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

7. UNIT AGREEMENT NAME  
n/a

8. FARM OR LEASE NAME  
Balcron Federal

9. WELL NO.  
#24-3Y

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

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 3, T9S, R17E

12. COUNTY OR PARISH  
Duchesne

13. STATE  
UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
EQUITABLE RESOURCES ENERGY COMPANY

3. ADDRESS OF OPERATOR  
P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
SE SW Section 3, T9S, R17E 561.8' FSL, 1887.2' FWL  
At proposed prod. zone  
43-013-31297

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

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

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GL 5099.1'

CONFIDENTIAL

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

19. PROPOSED DEPTH  
5,950'

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

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

EXHIBITS ATTACHED

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

RECEIVED  
MAY 20 1993  
RECEIVED  
JUL 07 1993  
DIVISION OF  
OIL, GAS & MINING

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 Sobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE May 17, 1993

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE JUL 02 1993

APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER, MINERALS DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

U-080-3M-049

\*See Instructions On Reverse Side

This act, 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.

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

API Number: 43-013-31397

Well Name & Number: Balcron Federal 24-3Y

Lease Number: U-64381

Location: SESW Sec. 3 T. 9S R. 17E

Surface Ownership: Federal Lands administered by BLM

Date NOS Received: May 3, 1993

Date APD Received: May 20, 1993

**NOTIFICATION REQUIREMENTS**

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

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

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

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

### DRILLING PROGRAM

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

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

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

2. Pressure Control Equipment

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

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

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

3. Casing Program and Auxiliary Equipment

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at  $\pm$  2,746 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to  $\pm$  2,546 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

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

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

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

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

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

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

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

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

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

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

Ed Forsman      (801) 789-7077  
Petroleum Engineer

BLM FAX Machine      (801) 789-3634

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

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

**SURFACE USE PLAN OF OPERATION**  
**Conditions of Approval (COAs)**

**Methods for Handling Waste Disposal**

If a plastic reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the AO.

**Additional Surface Conditions of Approval**

Fall seeding is preferred and will be done after September 15 and before the ground freezes. Spring seeding will be done prior to April 15.

The requested emergency pit is hereby approved under NTL-2B, Section VI, subject to the following Conditions of Approval:

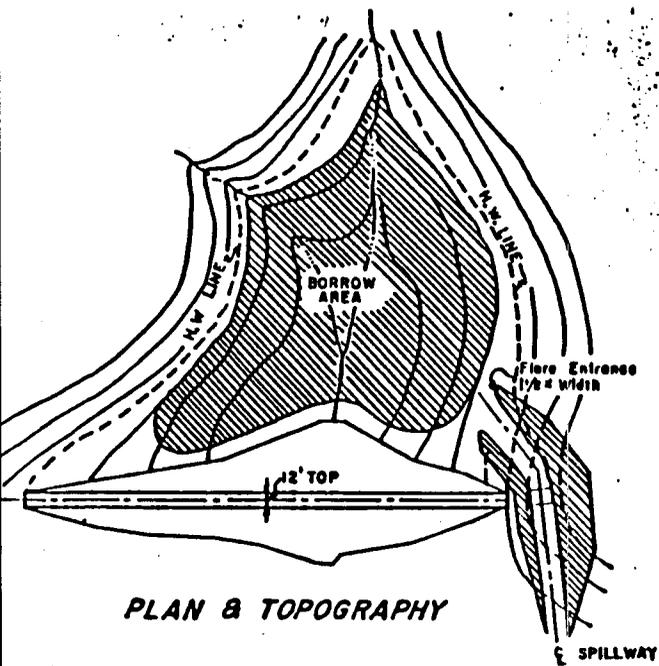
1. If emergency use occurs, the emergency pit shall be emptied and the liquids disposed of in accordance with applicable State and/or Federal regulations within 48 hours following its use, unless such time is extended by the authorized officer.
2. As much as practicable, the emergency pit shall be located on level ground, and away from drainage patterns and unstable ground.
3. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
4. Produced water drain lines shall not go to the emergency pit.
5. The pit shall be bermed or otherwise constructed and maintained to prevent entrance of surface water.
6. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.
7. The pit shall be kept free of trash.

If historic, archaeological, or paleontological resources are uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.

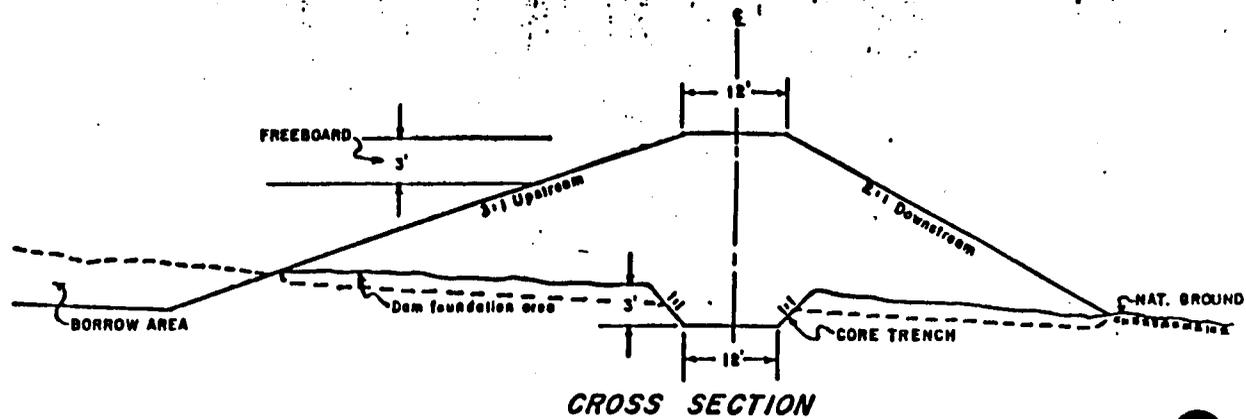
Construction of the silt dams will not begin until a BLM representative is present to indicate the location of the dams and to monitor construction.

MINIMUM STANDARDS FOR DAMS  
IMPOUNDING UNDER 10 AC. FT.

- I. Site Location and Design
  - A. Authorized BLM personnel must approve site location, fill material, foundation material, spillway size and location.
  - B. Dam layout and location shall be with surveying instruments by qualified personnel.
- II. Borrow Areas
  - A. Borrow material shall be taken from within the reservoir basin below the high water line whenever possible.
  - B. Vegetation, debris, and topsoil shall be removed to a depth of 12" below natural ground line and deposited as directed.
  - C. Vegetation, debris, and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line as directed.
  - D. Vegetation, debris and topsoil moved below the dam shall be contoured, smoothed and blended into natural ground lines away from fill areas and outside the wash bottom.
  - E. Borrow areas shall be smoothed, contoured and blended into natural ground lines.
- III. Core Trench and Dam Foundation
  - A. A core trench shall be constructed 12' wide along the full length of the dam center line to a minimum depth of 3' or bedrock.
  - B. Sides of the core trench shall not be steeper than 1:1 slopes.
  - C. Soft or unstable material encountered in the core trench or dam foundation shall be removed and will not be used as fill.
- IV. Dam and Core Fill
  - A. Fill shall be homogeneous material, preferably of highly impervious, compactable soils (such as high clay content soils free of organic material, sand or rock).
  - B. Lifts of fill shall not exceed 6" when compacted.
  - C. Fill shall be built up at a consistent rate the full length of the dam.
  - D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
  - E. Fill shall be smoothed, maintaining specified slopes.
- V. Spillway
  - A. Spillway shall be constructed through natural material.
  - B. Spillway shall be constructed to divert overflow away from fill areas or natural material that is an integral part of the dam.
  - C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.



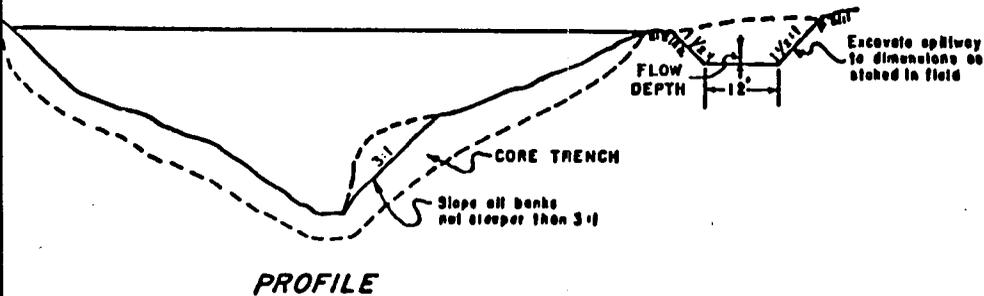
PLAN & TOPOGRAPHY



CROSS SECTION

**MINIMUM STANDARDS FOR DAMS  
IMPOUNDING UNDER 10 AC. FT.**

1. BLM PERSONNEL MUST APPROVE SITE LOCATION, FILL MATERIAL, FOUNDATION MATERIAL, SPILLWAY SIZE AND LOCATION.
2. DAM LAYOUT & LOCATION MUST BE WITH SURVEYING INSTRUMENTS BY QUALIFIED SURVEYOR,
3. MAX. WATER DEPTH AGAINST THE DAM WILL BE 10' WHEN CONSTRUCTED WITH A CRAWLER TRACTOR.
4. SOIL WILL BE PLACED IN NOT MORE THAN 6" LIFTS AND EACH LIFT COMPACTED WITH A CRAWLER TRACTOR.
5. SPILLWAY MUST BE THROUGH NATURAL MATERIAL.
6. A CORE TRENCH WILL BE CONSTRUCTED 3' DEEP OR TO BED ROCK.
7. BORROW MATERIAL WILL BE TAKEN FROM WITHIN THE RESERVOIR BASIN BELOW THE HIGH WATER MARK WHENEVER POSSIBLE.



PROFILE

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
<b>RETENTION DAM TYPICAL PLAN &amp; SECTION</b>	
DESIGNED _____	RECOMM. _____
DRAWN _____	RECOMM. _____ CHIEF, DIV. OF ENG.
CHECKED _____	APPROVED _____
SCALE NOT TO SCALE	
DATE _____	SHEET 1 OF 1
DRAWING NO. _____	

**ALWAYS THINK SAFETY** BPO 220-170



**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

July 7, 1993

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

Gentlemen:

RE: Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah

Enclosed is our sundry notice reporting a change in water source and trucking of water on the referenced well location.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosure

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DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

5. LEASE DESIGNATION & SERIAL NO. Federal #U-64381	
6. IF INDIAN ALLOTTEE OR TRIBE NAME n/a	
7. UNIT AGREEMENT NAME n/a	
8. FARM OR LEASE NAME Balcron Federal	
9. WELL NO. #24-3Y	
10. FIELD AND POOL, OR WILDCAT Monument Butte/Green Rvr.	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 3, T9S, R17E	
12. COUNTY Duchesne	13. STATE UTAH

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
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. See also space 17 below.) At surface 561.8' FSL, 1887.2' FWL SE SW Section 3 At proposed prod. zone	
14. API NO. 43 32-013-31397	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5009.1' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>change in water source</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recombination Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

Operator has changed the source of water from drilling purposes from Owen Dale Anderson's well and Dalbo Trucking. The source will be Section 15, T4S, R2W from a well permitted by Joe Shields under permit #57708. A copy of that permit is attached to this sundry. The water will be trucked by Jim Nebeker Trucking out of Roosevelt, Utah. Verbal permission to change granted by Stan Olmstead of the Vernal BLM on July 7, 1993.

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JUL 19 1993

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
 SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE July 7, 1993  
 Bobbie Schuman

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

Lined area for text entry.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

*[Handwritten Signature]*  
Signature of Applicant\*

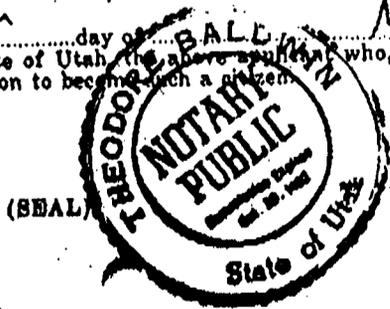
\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, *Vintah* } ss  
County of.....

On the *10th* day of *May*, 19 *82*, personally appeared before me, a notary public for the State of Utah, *the above applicant* who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:



*Theodore Baldwin*  
Notary Public



APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

47-1674

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- 1. Irrigation  Domestic  Stockwatering  Municipal  Power  Mining  Other Uses

2. The name of the applicant is Joe Shields

3. The Post Office address of the applicant is Myton, Utah 84052

4. The quantity of water to be appropriated .015 second-feet and/or \_\_\_\_\_ acre-feet

5. The water is to be used for Stockwatering & Other from \_\_\_\_\_ to \_\_\_\_\_  
(Major Purpose) (Month) (Day) (Month) (Day)

other use period Irrigation from Apr. 1 to Oct. 31  
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from \_\_\_\_\_ to \_\_\_\_\_  
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is \_\_\_\_\_  
(Leave Blank)

7. The direct source of supply is\* Drain  
(Name of stream or other source)

which is tributary to \_\_\_\_\_, tributary to \_\_\_\_\_

\*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Duchesne County, situated at a point\*  
West 900 ft. South 1100ft. from E½ Cor. Sec. 15, T4S, R2W, USB&M  
(3½ Miles SW of Myton)

Myton, Utah

\*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of a collection ditch to place of use

10. If water is to be stored, give capacity of reservoir in acre-feet \_\_\_\_\_ height of dam \_\_\_\_\_  
area inundated in acres \_\_\_\_\_ legal subdivision of area inundated \_\_\_\_\_

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:  
NE½SE½ Sec. 15, T4S, R2W, USB&M

Total .25 Acres

12. Is the land owned by the applicant? Yes X No \_\_\_\_\_ If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes \_\_\_\_\_ No X  
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. \_\_\_\_\_

15. If application is for mining, the water will be used in \_\_\_\_\_ Mining District at  
the \_\_\_\_\_ mine, where the following ores are mined \_\_\_\_\_

16. If application is for stockwatering purposes, number and kind of stock watered 320 Cattle  
in NE½SE½ Sec. 15, T4S, R2W, USB&M

17. If application is for domestic purposes, number of persons \_\_\_\_\_, or families \_\_\_\_\_

18. If application is for municipal purposes, name of municipality \_\_\_\_\_

19. If application is for other uses, include general description of proposed uses Oil Field use

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Myton Oil Field in Pleasant Valley

21. The use of water as set forth in this application will consume .015 second-feet and/or acre-feet of water and None second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: \_\_\_\_\_

**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

Location: SE SW Section 3, T9S, R16E

Duchesne County, Utah

561.8' FSL, 1887.2' FWL

PTD: 5950' Formation: Green River

Green River Prospect/Monument Butte Field

Elevations: 5009.1' GL

Contractor: Union Drilling

Operator: Balcron/EREC

Spud:

Casing:

---TIGHT HOLE---

7-9-93 Present Operation: Building location.  
 Building location, will move in Union Drilling on Friday.  
 Expect to spud Saturday.

Post-It™ brand fax transmittal memo 7671		# of pages ▶
To	STATE OF UTAH	From
Co.	DIV. OIL, GAS +	JEANNE RAPSTAD
Dept.	MINING	Co.
Fax	801-359-3940	Phone
		406-259-7860
		Fax
		406-245-1361

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: BALCRON 43-013-31397

WELL NAME: FEDERAL 24-3Y

Section 3 Township 9S Range 17E County DUCHESNE

Drilling Contractor UNION DRILLING

Rig # 17

SPUDDED: Date 7/10/93

Time \_\_\_\_\_

How ROTARY



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

Reported by BOBBY SCHUMAN

Telephone # 1-406-259-7860

Date 7/9/93 SIGNED \_\_\_\_\_ FRM \_\_\_\_\_

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

COMPANY: BALCRON COMPANY REP: AL PLUNKET

WELL NAME: FEDERAL #24-3Y API NO: 43-013-31397

QTR/QTR: SE/SW SECTION: 3 TWP: 9S RANGE: 17E

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #17

INSPECTOR: DENNIS INGRAM TIME: 4:00 PM AM DATE: 7/12/93

OPERATIONS: RIGGING UP AIR COMPRESSORS DEPTH: 1,454

SPUD DATE: DRY: \_\_\_\_\_ ROTARY: 7/9/93 PROJECTED T.D.: \_\_\_\_\_

=====

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

H2S POTENTIAL: N/A ENVIRONMENTAL: OK FLARE PIT: NO

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

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

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: N

BOPE TRAINING RECORDED IN THE RIG DAILY TOUR BOOK: N

=====

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

=====

REMARKS:

RIGGING UP AIR PACK & GETTING READY TO DRILL OUT FROM UNDER SURFACE.

NIPPLED UP WITH 2-SETS OF RAMS, ROTATING HEAD, CHOKE MANIFOLD. KOOMEY

PUMPED UP TO 2700 PSI. BLM WAS OUT & WITNESSED TEST ON BOP'S.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E**  
**Duchesne County, Utah**  
**561.8' FSL, 1887.2' FWL**  
**PTD: 5950' Formation: Green River**  
**Green River Prospect/Monument Butte Field**  
**Elevations: 5009.1' GL**  
**Contractor: Union Drilling**  
**Operator: Balcron/EREC**  
**Spud:**  
**Casing:**

---TIGHT HOLE---

7-9-93 Present Operation: Building location.  
 Building location, will move in Union Drilling on Friday.  
 Expect to spud Saturday.

7-11-93 TD: 278' (278') Day 1  
 Formation: Rock, sand, shale  
 Present Operation: WOC.  
 Spud @ 7:00 PM, 7/10/93. Finish pit, riggin up, install  
 pit liner. Drill rat hote + 20 for conductor pipe. Set  
 conductor pipe & nipple up air head. Drill 12-1/4" hole  
 to 278'. Trip out & nipple down air head & pull  
 conductor pipe. Run 1 jt 8-5/8" pipe & cement w.d. 150  
 sx premium plus cement with 270 CCL & 1/4# per. sx.  
 flocele. Plug down @ 5:30 AM 7-11-93.  
 DC: \$12,092 CC: \$29,542

7-12-93 TD: 278' (0') Day 2  
 Present Operation: Pressure Test BOP.  
 Wait on cement, nipple up. Test BOP, manifold lines,  
 casing & valves. Have everything tested except valve on  
 manifold: Cement circulated 6 bbls back to pit. 1 hr  
 after plug landed cement was 2' down from surface.  
 DC: \$3,750 CC: \$33,292

Post-It™ brand fax transmittal memo 7671 # of pages >

To	STATE OF UTAH	From	JENNIE RAPSTAD
Co.	DIV. OIL, GAS +	Co.	BALCRON OIL DIV.
Dept.	MINING	Phone #	406-259-7860
Fax #	801-359-3940	Fax #	406-245-1361





**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

July 12, 1993

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

Gentlemen:

RE: Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah

Enclosed is entity action form reporting spud of the referenced well. Also enclosed are copies of the Federal sundry notices giving notification of spud and running casing and requesting variances on location of blooie line and compressors on the referenced well.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

**RECEIVED**

JUL 14 1993

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Subsequent Report

Final Abandonment Notice

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other Request for variance

Change of Plans

New Construction

Non-Routine Fracturing

Water Shut-Off

Conversion to Injection

Dispose Water

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

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

On this location the blooie line is 75' from the wellbore rather than 100' and the compressors are 70' from the wellbore rather than 100'. We are requesting a variance for those footages on this location. Verbal approval has been granted by Jerry Barnes of the Vernal BLM who is inspecting the location and rig. Also, we are currently mist drilling. We will use an automatic igniter if we are not mist (air) drilling.

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JUL 14 1993

DIVISION OF  
OIL GAS & MINING

7/15/93  
JAN Matthews

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

Signed Dobbie Schuman

Coordinator of Environmental  
and Regulatory Affairs

Date July 12, 1993

(This space for Federal or State Office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input 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>notice of spud &amp; running casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

This well was spud at 7 p.m. 7/10/93. 8-5/8" surface casing was set at 258.70' and cemented w/150 sx premium + w/270 CCL & 1/4 sx flocele. Plug down at 5:30 a.m. 7/11/93.

**RECEIVED**

JUL 12 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed Bobbie Schuman

Title Coordinator of Environmental and Regulatory Affairs

Date July 12, 1993

(This space for Federal or State Office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

OPERATOR ACCT. NO. N 9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11493	43-013-31397	Balcron Federal #24-3Y	SE SW	3	9S	17E	Duchesne	7-10-93	7-10-93

WELL 1 COMMENTS:  
Spud of new well. *Entity added 7-15 93 Juc*

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

**RECEIVED**

JUL 12 1993

- 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.

DIVISION OF  
OIL, GAS & MINING

*Lobbie Schuman*  
Signature  
Coordinator of  
**Environmental & Regulatory Affairs**  
Title Date

DATE: *July 12, 1993*

Phone No. 406 ; 259-7860

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

7-13-93 TD: 485' (207') Day 3  
 Formation: Uinta  
 Present Operation: Drilling.  
 Test BOP. Rig up block lines & manifold lines to pit.  
 Drill plug & cement. Survey, drill collars down, change  
 air head drill. Test BOP, manifold & lines, kelly cock  
 safety & other valves to 2000 psi. Test casing to 1500  
 psi, all OK. BLM man, Jerry Barnes.  
 DC: \$4,563 CC: \$37,855

7-14-93 TD: 1,511' (1,026') Day 4  
 Formation: Green River  
 Present Operation: Drilling.  
 Drill, survey, get rig up to BLM specs. First water @  
 1,017', about a 3/4" stream. Start injecting soap. 2-3  
 units background gas.  
 DC: \$13,718 CC: \$51,573

Post-It™ brand fax transmittal memo 7871		# of pages >
To: STATE OF UTAH	From: JEANNE RAPSTAD	
Co: DIV. OIL, GAS +	Co: BALCRON OIL DIV.	
Dept: MINING	Phone: 406-259-7860	
Fax: 801-359-3940	Fax: 406-245-1361	

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

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Formation: Uinta  
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Test BOP. Rig up blooie lines & manifold lines to pit.  
Drill plug & cement. Survey, drill collars down, change  
air head drill. Test BOP, manifold & lines, kelly cock  
safety & other valves to 2000 psi. Test casing to 1500  
psi, all OK. BLM man, Jerry Barnes.  
DC: \$4,563 CC: \$37,855
  
- 7-14-93 TD: 1,511' (1,026') Day 4  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, get rig up to BLM specs. First water @  
1,017', about a 3/4" stream. Start injecting soap. 2-3  
units background gas.  
DC: \$13,718 CC: \$51,573
  
- 7-15-93 TD: 2,540' (1,029') Day 5  
Formation: Green River  
Present Operation: Drilling  
Drill, survey, work on BLM specs.  
DC: \$18,070 CC: \$69,643

Post-It™ brand fax transmittal memo 7871		# of pages >	
To:	STATE OF UTAH	From:	JEANNE RAPSTAD
Div.	OIL, GAS +	Co.	BALCRON OIL DIV.
Dept.	MINING	Phone	406-259-7860
Fax	801-359-3940	Fax	406-245-1361

BALCRON OIL  
DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y  
Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

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Formation: Uinta  
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Test BOP. Rig up blooie lines & manifold lines to pit. Drill plug & cement. Survey, drill collars down, change air head drill. Test BOP, manifold & lines, kelly cock safety & other valves to 2000 psi. Test casing to 1500 psi, all OK. BLM man, Jerry Barnes.  
DC: \$4,563 CC: \$37,855
- 7-14-93 TD: 1,511' (1,026') Day 4  
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Present Operation: Drilling.  
Drill, survey, get rig up to BLM specs. First water @ 1,017', about a 3/4" stream. Start injecting soap. 2-3 units background gas.  
DC: \$13,718 CC: \$51,573
- 7-15-93 TD: 2,540' (1,029') Day 5  
Formation: Green River  
Present Operation: Drilling  
Drill, survey, work on BLM specs.  
DC: \$18,070 CC: \$69,643
- 7-16-93 TD: 3,446' (906') Day 6  
MW 8.3 Vis 27 pH 7.6  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, clean & paint. Get automatic driller working.  
DC: \$13,109 CC: \$82,752

Post-It™ brand fax transmittal memo 7871 # of pages >

To: STATE OF UTAH	From: JENNIFER RAPSTAD
Co: DIV. OIL, GAS +	Co: BALCRON OIL DIV.
Dept: MINING	Phone: 406-259-7860
Fax: 801-359-3940	Fax: 406-245-1361

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R13E  
Duchesne County, Utah

---TIGHT HOLE---

7-17-93 TD: 4,330' (884') Day 7  
MW 8.3 Vis 27 pH 7.6  
Present Operation: Prepare to trip out.

Drill, survey, had tight connection @ 3,755', did not blow hole good. Put string float in. Bit started hopping; prep to trip out.

DC: \$12,815 CC: \$95,567

7-18-93 TD: 4,626' (296') Day 8  
MW 8.3 Vis 27 pH 11  
Formation: Douglas Creek  
Present Operation: Service rig.

Blow hole clean, trip out, pick up 5 more collars, trip in & blow water from 3,100' to bottom, back to drilling & survey.

DC: \$5,707 CC: \$101,274

7-19-93 TD: 5,066' (440') Day 9  
MW: 8.4 Vis 27 pH 10  
Formation: Green River  
Present Operation: Trip in hole.

Drill survey, start to switch over to fluid & something plugged up down hole. Trip out wet & float was plugged with sand. Start trip in hole. Tops: Douglas Creek 4,578', show 4,766'-76', 34 units gas. Green marker 4,956'.

DC: \$7,099 CC: \$108,373

Post-It™ brand fax transmittal memo 7871		# of pages ▶	
To: STATE OF UTAH	From: JENNIE RAPSTAD		
Div. OIL, GAS +	Co. BALCRON OIL DIV.		
Dept. MINING	Phone 406-259-7860		
Fax 801-359-3940	Fax 406-245-1361		

**BALCRON OIL**

**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

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 MW 8.3 Vis 27 pH 7.6  
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 Drill survey, had tight connection @ 3,755', did not  
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 Formation: Douglas Creek  
 Present Operation: Service rig.  
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 & survey.  
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 MW: 8.4 Vis 27 pH 10  
 Formation: Green River  
 Present Operation: Trip in hole.  
 Drill survey, start to switch over to fluid & something  
 plugged up down hole. Trip out wet & float was plugged  
 with sand. Start trip in hole. Tops: Douglas Creek  
 4,578', show 4,766'-76', 34 units gas. Green marker  
 4,956'.  
 DC: \$7,099 CC: \$108,373
- 7-20-93 TD: 5,376' (310') Day 10  
 MW 8.4 Vis 27 pH 9.6  
 Formation: Green River  
 Present Operation: Drilling.  
 Finish trip in hole & fill with fluid, circulate bottom  
 up & circulate hole good. First couple of connections  
 were tight. Back to drilling.  
 DC: \$5,373 CC: \$113,746

Post-It™ brand fax transmittal memo 7671		# of pages >	
To: STATE OF UTAH	From: JEANNE RAPSTAD		
Co: DIV. OIL, GAS +	Co: BALCRON OIL DIV.		
Dept: MINING	Phone: 406-259-7860		
Fax: 801-359-3940	Fax: 406-245-1361		

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

7-21-93

TD: 5,685' (309') Day 11

MW 8.4 Vis 27 pH 10.6

Formation: Green River

Present Operation: Drilling.

Drill, survey, repair engine on mud pump. Drilling @  
14.7' per hr.

DC: \$6,390

CC: \$120,136

Post-It™ brand fax transmittal memo 7671		# of pages ▶
To STATE OF UTAH	From JENNIE RAPSTAD	
Div. OIL, GAS +	Co. BALCRON OIL DIV.	
Dept. MINING	Phone 406-259-7860	
Fax 801-359-3940	Fax 406-245-1361	

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

7-21-93 TD: 5,685' (309') Day 11  
MW 8.4 Vis 27 pH 10.6  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, repair engine on mud pump. Drilling @  
14.7' per hr.  
DC: \$6,390 CC: \$120,136

7-22-93 TD: 5,900 (215') Day 12  
MW 8.4 Vis 27 pH 11.4  
Formation: Green River  
Present Operation: Circulate for logs.  
Drill, clean rig. Unload 1 load 5-1/2" casing, pump,  
sweep, circulate for logs.  
DC: \$6,151 CC: \$126,287

Post-It™ brand fax transmittal memo 7871		# of pages >
To: STATE OF UTAH	From: JENNIE RAPSTAD	
Co: DIV. OIL, GAS +	Co: BALCRON OIL DIV.	
Dept: MINING	Phone: 406-259-7860	
Fax: 801-359-3940	Fax: 406-245-1361	

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

- 7-21-93 TD: 5,685' (309') Day 11  
 MW 8.4 Vis 27 pH 10.6  
 Formation: Green River  
 Present Operation: Drilling.  
 Drill, survey, repair engine on mud pump. Drilling @  
 14.7' per hr.  
 DC: \$6,390 CC: \$120,136
- 7-22-93 TD: 5,900 (215') Day 12  
 MW 8.4 Vis 27 pH 11.4  
 Formation: Green River  
 Present Operation: Circulate for logs.  
 Drill, clean rig. Unload 1 load 5-1/2" casing, pump,  
 sweep, circulate for logs.  
 DC: \$6,151 CC: \$126,287
- 7-23-93 TD: 5,900' (0') Day 13  
 Present Operation: Pumping cement.  
 Circulate for logs. Trip out of hole. Rig up  
 Schlumberger & log well. Trip in hole with drill pipe.  
 Circulate & come out of hole laying down drill pipe. Lay  
 down drill collars. Rig up casing crews & run 135 jts 5-  
 1/2" casing. Circulate hole, cementing.  
 DC: \$52,035 CC: \$178,322

Post-it™ brand fax transmittal memo 7671		# of pages ▶
To: STATE OF UTAH	From: JENNIE RAPSTAD	
Co: DIV. OIL, GAS +	Co: BALCRON OIL DIV.	
Dept: MINING	Phone: 406-259-7860	
Fax to: 801-359-3940	Fax: 406-245-1361	

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E**  
**Duchesne County, Utah**

**---TIGHT HOLE---**

- 7-21-93 TD: 5,685' (309') Day 11  
MW 8.4 Vis 27 pH 10.6  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, repair engine on mud pump. Drilling @  
14.7' per hr.  
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- 7-22-93 TD: 5,900 (215') Day 12  
MW 8.4 Vis 27 pH 11.4  
Formation: Green River  
Present Operation: Circulate for logs.  
Drill, clean rig. Unload 1 load 5-1/2" casing, pump,  
sweep, circulate for logs.  
DC: \$6,151 CC: \$126,287
- 7-23-93 TD: 5,900' (0') Day 13  
Present Operation: Pumping cement.  
Circulate for logs. Trip out of hole. Rig up  
Schlumberger & log well. Trip in hole with drill pipe.  
Circulate & come out of hole laying down drill pipe. Lay  
down drill collars. Rig up casing crews & run 135 jts 5-  
1/2" casing. Circulate hole, cementing.  
DC: \$52,035 CC: \$178,322
- 7-24-93 TD: 5,900' (0') Day 14  
Formation: Green River  
Present Operation: Rig down to move.  
Finish cementing with Halliburton. Set slips, cut casing  
off. Nipple down & clean mud tank. Prepare to move.  
Cement with 150 sx Hifill Standard & tail in with 470 sx  
50/50 Posnix. Good returns. Plug down @ 7:00 AM  
7/23/93. Release rig @ 11:00 AM 7/23/93.  
DC: \$12,370 CC: \$190,692  
**---LAST REPORT UNTIL COMPLETION STARTS---**

Post-It™ brand fax transmittal memo 7671		# of pages >
STATE OF UTAH	From	JENNIFER RAFFERTY
DIV. OIL, GAS	Co	BALCRON OIL



**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 [ ]

July 23, 1993

**RECEIVED**

JUL 26 1993

**DIVISION OF**  
**OIL GAS & MINING**

**TO:** Mark Mauritsen  
Yates Petroleum Corporation

Ed Forsman  
Bureau of Land Management - Vernal, Utah

State of Utah  
Division of Oil, Gas & Mining

**FROM:** Jeannie Rapstad *Jeannie Rapstad*  
Balcron Oil Division, Operations Secretary

**RE:** Balcron Federal #24-3Y *43-012-31297*  
SE SW Section 3, T9S, R17E  
Monument Butte Field  
Duchesne County, Utah

Enclosed please find Hydrocarbon Well Log, in duplicate, from Continental Laboratories for period of 7/12/93 to 7/22/93. In the future, logs will be sent to you directly from the logging company.

Please advise should you have any questions or comments.

/jr  
Encl. *DUAL INDUCTION - SFL W/ LINEAR CORRELATION LOG*  
*SIMULTANEOUS COMPENSATED NEUTRON - LITHO-DENSITY*  
*MUD LOG*



**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 [X]

July 26, 1993

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

Gentlemen:

RE: Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah

Enclosed is our sundry notice reporting our intent to use a completion rig for completion of this well.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

**RECEIVED**

JUL 27 1993

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr

11. County or Parish, State

Duchesne County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

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

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

We will be using Cannon Well Service as a completion rig on this well.

**RECEIVED**

JUL 27 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed

Bobbie Schuman

Title

Coordinator of Environmental  
and Regulatory Affairs

Date

July 26, 1993

(This space for Federal or State Office use)

Approved by

Conditions of approval, if any:

Title

Date

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

\*See Instruction on Reverse Side

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah**

**---TIGHT HOLE---**

7-28-93 Present Operation: MIRU Cannon Well Service Rig #1.  
 Move in rig pump & falt tank. Move in 500 BBL Frac  
 Master. Fill Frac Master w/480 BBL of 2% KCL water.  
 DC: \$1,743 CC: Not given

7-29-93 NU well head, NU BOP, TIH w/1 4-3/4" bit, 1 2-7/8" x 5-  
 1/2" scrapper, & 187 jts 2-7/8 tbg. Tag PBTB @ 5,836'  
 KB. Circulate hole clean w/160 BBL of 2% KCL water.  
 TOOH w/tbg, scrapper & bit. Test csg & BOP to 1000 psi.  
 Test held 15 min. SDFN.  
 DC: \$5,642 CC: Not given

Post-It™ brand fax transmittal memo 7871 # of pages >

STATE OF UTAH	From JENNIFER RAPOSTOL
DIV. OIL, GAS &	Co BALCRON OIL
Dept. MINING	Phone # 406.259.7860
Fax 1-801-359-3940	Fax 406.245.1361

5

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E**  
**Duchesne County, Utah**

---TIGHT HOLE---

- 7-28-93 Present Operation: MIRU Cannon Well Service Rig #1.  
Move in rig pump & falt tank. Move in 500 BBL Frac  
Master. Fill Frac Master w/480 BBL of 2% KCL water.  
DC: \$1,743 CC: Not given
- 7-29-93 NU well head, NU BOP, TIH w/1 4-3/4" bit, 1 2-7/8" x 5-  
1/2" scrapper, & 187 jts 2-7/8 tbg. Tag PBTB @ 5,836'  
KB. Circulate hole clean w/160 BBL of 2% KCL water.  
TOOH w/tbg, scrapper & bit. Test csg & BOP to 1000 psi.  
Test held 15 min. SDFN.  
DC: \$5,642 CC: Not given
- 7-30-93 Present Operation: Rig up HLS to log & perforate.  
Bod log. Perf 5,506'-12' KB 4 shots & 5,442'-68' 14  
shots. TIH w/5-1/2 R-DBL grip pkr & 174 jts 2-7/8 EUE  
tbg. Set pkr @ 5,418" KB. End of tbg @ 5,450' KB.  
SWIFN.  
DC: \$5,765 CC: Not given
- 7-31-93 Present Operation: Shut Down.  
Shut down, can't get pump truck until 8/1/93.
- 8-1-93 Present Operation: Rig up to frac.  
RU Western for break down. 2% KCL water w/60 Balls. Csg  
0 psi. Tbg 0 psi. Press test surface equip. Start break  
down .5 BOW to load. Break at 1600 psi; 2.8 BPM. Drop  
1 ball per BBL. 1800 psi at 4.8 BPM 17 balls on perfs.  
Stop injection at 3500 psi, .8 BPM surge balls back.  
Press. Dropped to 800 psi. Pump for rate. 2300 psi,  
6.3 BPM. Load used 98 BOW. ISIP 1000, 0939: 980 psi,  
0944: 950 psi, 0949: 800 psi. Rig up swab. Tag fluid  
at surface. Made 14 swab runs, swab back 80 BBL. Trace  
of oil on last 7 runs. Rig down, swab, unset pkr & TOOH  
w/174 jts tbg, S.N., pkr & 1 jt of tbg. Shut well in for  
night.  
DC: \$4,003 CC: Not given

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**  
Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

8-2-93 Present Operation: Fracing.

0600: Cas PSIG 20, RU Western to frac well w/2% KCL.  
0858: Press test surface equipment to 4000 PSIG. OK.  
1007: Start frac pump pad 110 BOW @ max psi 2120.

<u>Start Sand</u>	<u>BPM</u>	<u>PSI</u>
1006: 2# 20/40	34.1	2120
1007: 3# 20/40	34.	2100
1008: 4# 20/40	33.2	2120
1009: 5# 20/40	32.5	2050
1010: 6# 20/40	33.2	2000
1011: 6# 16/30	32.8	1920
1013: 7# 16/30	32.8	1850
1014: Flush 125 BOW @ max psi 2180	34.8 BPM	
1018: ISIP. 1370 PSIG, 5 min 1210, 10 min 1130, 15 min 1090		
1035: RD Western.		
1200: SDFD.		
448 BOW lad + 18 BOW load from breakdown = 466 BBL of load to recover.		
DC: \$32,726		CC: Not given

Post-It™ brand fax transmittal memo 7871		# of pages ▶
STATE OF UTAH	From	JENNINE RAFTSD
DIV. OIL, GAS &	Co.	BALCRON OIL
Dept.	Phone #	406-259-7860
Fax 1-801-359-3940	Fax	406-245-1361

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
WORKOVER AND COMPLETION FORM

COMPANY: BALCRON OIL COMPANY COMPANY REP: DALE GRIFFIN

WELL NAME: BALCRON FEDERAL #24-3Y API NO: 43-013-31397

SECTION: 3 TWP: 9S RANGE: 17E

CONTRACTOR: CANNON RIG NUMBER: #1

INSPECTOR: INGRAM TIME: 10:30 A.M. AM/PM DATE: 8/4/93

OPERATIONS AT THE TIME OF INSPECTION: RUNNING IN HOLE WITH WIRE LINE  
TO SHOOT PERFS @ 5092 - 5097

=====

WELL SIGN: Y TYPE OF WELL: OIL STATUS PRIOR TO WORKOVER: DRILL

H2S: N/A ENVIRONMENTAL: OK PIT: Y BOPE: Y

DISPOSITION OF FLUIDS USED: FLAT TANK & TRUCK.

DOES THIS WORKOVER QUALIFY FOR STATE TAX CREDITS: (Y/N) NEW WELL

PERFORATED: Y STIMULATED: \_\_\_\_\_ SAND CONTROL: \_\_\_\_\_

WATER SHUT OFF: \_\_\_\_\_ WELLBORE CLEANOUT: \_\_\_\_\_ WELL DEEPENED: \_\_\_\_\_

CASING OR LINER REPAIR: \_\_\_\_\_ ENHANCED RECOVERY: \_\_\_\_\_ THIEF ZONE: \_\_\_\_\_

CHANGE OF LIFT SYSTEM: \_\_\_\_\_ TUBING CHANGE: \_\_\_\_\_ OTHER CEMENT SQUEEZE: \_\_\_\_\_

SURFACE EQUIPMENT CHANGES OR ASSOCIATED COSTS DO NOT QUALIFY FOR CREDITS.

=====

REMARKS:

SHOT FIRST PERFS @ 5092 - 5097 AND SWABBED BACK -- DALE SAID ZONE LOOKED  
PRETTY GOOD.

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



DONALD CANNON, President

1-828-7591  
1-828-7485

# CANNON WELL SERVICE, INC.

P.O. Box 906  
VERNAL, UTAH 84078

## SWAB REPORT

DATE <u>8-3-93</u>		LEASE <u>Monument Butte</u>		WELL NO. <u>Balcona Feed 24-34</u>									
TANK NO.	TANK SIZE	BBLs. PER INCH		CO. REP. <u>Dale Griffin</u>									
TIME	FLUID LEVEL	PULLED FROM	FLUID LEVEL IN TANK		BBLs. IN TANK	BBLs. PER RUN	TOT. BBLs. SWABBED	FLUID ANALYSIS					
			FT.	IN.				OIL	WATER	MUD	SBS	GAS	
1	100'	1100'				6	6	100%					
2	300'	1300'				6	12	100%					
3	400'	1400'				6	18	100%					
4	600'	1600'				6	24	100%					
5	700'	1700'				6	30	100%					
6	900'	1900'				6	36	100%					
7	1000'	2000'				6	42	100%					
8	1100'	2100'				6	48	100%					
9	1200'	2200'				6	54	100%					
10	1300'	2300'				6	60	100%					
11	1400'	2400'				6	66	100%					
12	1600'	2600'				6	72	100%					
13	1700'	2700'				6	78	100%					
14	1900'	2900'				6	84	100%					99.5
15	1900'	2900'				6	90	100%					" "
16	2100'	3100'				6	96	trace	100%				" "
17	2200'	3200'				6	102	trace	100%				" "
18	2200'	3200'				6	108	trace	100%				" "
19	2300'	3300'				6	114	1%	99%				" "
20	2300'	3300'				6	120	2%	98%				" "
21	2400'	3400'				6	126	2%	98%				" "
22	2400'	3400'				6	132	2%	98%				" "
23	2400'	3400'				6	138	5%	95%				" "
24	2400'	3400'				6	144	5%	95%				" "
25	2400'	3400'				6	150	5%	95%				" "
26	2500'	3500'				6	156	5%	95%				" "
27	2500'	3500'				6	162	7%	93%				" "
28	2500'	3500'				6	168	7%	93%				" "
29	2500'	3500'				6	174	10%	90%				" "
30	2500'	3500'				6	180	10%	90%				" "

650/291 722-4468

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y  
 Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

8-2-93 Present Operation: Fracing.

0600: Cas PSIG 20, RU Western to frac well w/2% KCL.  
 0858: Press test surface equipment to 4000 PSIG. OK.  
 1007: Start frac pump pad 110 BOW @ max psi 2120.  

Start Sand	BPM	PSI
1006: 2# 20/40	34.1	2120
1007: 3# 20/40	34.	2100
1008: 4# 20/40	33.2	2120
1009: 5# 20/40	32.5	2050
1010: 6# 20/40	33.2	2000
1011: 6# 16/30	32.8	1920
1013: 7# 16/30	32.8	1850
1014: Flush 125 BOW @ max psi 2180	34.8 BPM	
1018: ISIP. 1370 PSIG, 5 min 1210, 10 min 1130, 15 min 1090		
1035: RD Western.		
1200: SDFD.		

448 BOW lad + 18 BOW load from breakdown = 466 BBL of load to recover.  
 DC: \$32,726 CC: Not given

8-3-93 Present Operation: TIH w/BP.

Csg 290 PSIG, TIH w/1 2-7/8" notched collar, 1 jt 2-7/8" tbg, 1 2-3/8" x 5-1/2" R-3 Pkr, 1 2-7/8" SN, 173 jts 2-7/8" tbg. Tag fill @ 5,760', pull up & set Pkr. Bottom of tbg @ 5,419' KB. Pkr @ 5,387' KB. Swab 45 swab runs. Swab back 270 BOF. Last 3 runs were 60% oil & free of sand. Fluid level stayed @ 2,700'. Release Pkr, tag sand @ 5,755', circulate hole clean to PBTD (5,837' KB). TOOH w/tbg, SN, Pkr & notched collar. SWIFN.  
 Load water to be recovered - 466 BBL.  
 Load water used today - 125 BBL.  
 Load water recovered today - 200 BOW.  
 Total load to recover - 391 BOW.  
 ---PLEASE SEE ATTACHED SWAB REPORTS---  
 DC: \$2,400 CC: Not given

Post-It™ brand fax transmittal memo 7671 # of pages >

STATE OF UTAH	From	JENNIE RAPER
DIV. OIL, GAS	Co	BALCRON OIL
Dept. MINING	Phone	406-259-7860
Fax 1-801-359-3940	Fax	406-245-1361

**BALCRON OIL**

**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

8-4-93 Csg psi 0. TIH w/5-1/2" retrievable BP, retrieving tool & 170 jts 2-7/8" tbg. Set BP @ 5,292' KB. TOOH w/tbg & retrieving head. RU Schlumberger to perf 5,092'-97' & 4,767'-75' KB. TIH w/1 jt 2-7/8" tbg, 1 5-1/2" R-3 Pkr, 1 SN & 152 jts 2-7/8" tbg. End of tbg landed @ 4,764' KB, Pkr @ 4,733'. Rig up Western to do break down. Pressure test surface equip to 4000 PSIG, OK. Start break down, Pkr did not hold, TOOH w/tbg & Pkr, packing elements bad. TIH w/1 jt 2-7/8" tbg, 1 5-1/2 HD Pkr, 1 SN, & 152 jts 2-7/8" tbg. Set Pkr @ 4,733'. Bottom of tbg @ 4,764' KB. Pressure test Pkr to 4000 PSIG, OK. Start break down; pump 5 BOW, break @ 2200 psi, 4.5 BPM. Start balls, 1 per BBL, pumped 50 BOW to ball off 60 BBL load. Serge ball back; pump for rate 6.1 BPM @ 2600 PSIG, ISIP 1300 psi, 5 min 1000 psi, RD Western, swab 9 runs, swab back 51 BBL of fluid. POOH w/12 jts tbg. Total load to recover - 451 BOW.  
DC: \$8,560 CC: \$251,531

Post-It™ brand fax transmittal memo 7671		# of pages >
STATE OF UTAH	From	JENNIE RAFTSD
DIV. OIL, GAS	Co	BALCRON OIL
Dept. MINING	Phone	406-259-7860
Fax 1-801-359-3940	Fax	406-245-1361

**BALCRON OIL**

**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

8-4-93 Csg psi 0. TIH w/5-1/2" retrievable BP, retrieving tool & 170 jts 2-7/8" tbg. Set BP @ 5,292' KB. TOOH w/tbg & retrieving head. RU Schlumberger to perf 5,092'-97' & 4,767'-75' KB. TIH w/1 jt 2-7/8" tbg, 1 5-1/2" R-3 Pkr, 1 SN & 152 jts 2-7/8" tbg. End of tbg landed @ 4,764' KB, Pkr @ 4,733'. Rig up Western to do break down. Pressure test surface equip to 4000 PSIG, OK. Start break down, Pkr did not hold, TOOH w/tbg & Pkr, packing elements bad. TIH w/1 jt 2-7/8" tbg, 1 5-1/2 HD Pkr, 1 SN, & 152 jts 2-7/8" tbg. Set Pkr @ 4,733'. Bottom of tbg @ 4,764' KB. Pressure test Pkr to 4000 PSIG, OK. Start break down; pump 5 BOW, break @ 2200 psi, 4.5 BPM. Start balls, 1 per BBL, pumped 50 BOW to ball off 60 BBL load. Serge ball back; pump for rate 6.1 BPM @ 2600 PSIG, ISIP 1300 psi, 5 min 1000 psi, RD Western, swab 9 runs, swab back 51 BBL of fluid. POOH w/12 jts tbg. Total load to recover - 451 BOW.  
DC: \$8,560 CC: \$251,531

8-6-93 Casing 470 PSIG & flow well back. TIH w/BP retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD Pkr, 1 SN, & 165 jts 2-7/8" tbg. Tag fill @ 5,165' KB, POOH to 4,768' KB w/bottom of tbg. Set Pkr @ 4,731' KB. Flow back 30 BOW. Swab 25 runs, flow & swab 180 BOW, last 2 runs 30% oil no sand. Release Pkr, TIH to fill, circulate csg. Clean w/2% KCL water, release BP, TOOH w/tbg, seat nipple, Pkr & BP. Mud anchor landed @ 4,766.96' KB.  
DC: \$9,243 CC: \$260,774

8-7-93 Casing 5 PSIG, tbg 10 PSIG. ND BOP, NU well head. TIH w/1 BHP 2-1/2 x 1-1/2 x 16'. 6 1" x 25" rods. EL w/2-1/2" guides. 182 3/4" x 25' slick rods. 1 1-1/4" x 16' polish rod. Seat pump & press test tbg 1000 PSIG, 10 min - OK. ROMO.  
DC: \$883 CC: \$261,657

Post-It™ brand fax transmittal memo 7671		# of pages ▶
STATE OF UTAH	From	JENNIE RASTAD
DIV. OIL, GAS & MINING	Co.	BALCRON OIL
Dept.	Phone #	406-259-7860
Fax # 1-801-359-3940	Fax #	406-245-1361

## BALCRON OIL

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9E, R16E  
Duchesne County, Utah

---TIGHT HOLE---

- 8-4-93 Csg psi 0. TIH w/5-1/2" retrievable BP, retrieving tool & 170 jts 2-7/8" tbg. Set BP @ 5,292' KB. TOOH w/tbg & retrieving head. RU Schlumberger to perf 5,092'-97' & 4,767'-75' KB. TIH w/1 jt 2-7/8" tbg, 1 5-1/2" R-3 Pkr, 1 SN & 152 jts 2-7/8" tbg. End of tbg landed @ 4,764' KB, Pkr @ 4,733'. Rig up Western to do break down. Pressure test surface equip to 4000 PSIG, OK. Start break down, Pkr did not hold, TOOH w/tbg & Pkr, packing elements bad. TIH w/1 jt 2-7/8" tbg, 1 5-1/2 HD Pkr, 1 SN, & 152 jts 2-7/8" tbg. Set Pkr @ 4,733'. Bottom of tbg @ 4,764' KB. Pressure test Pkr to 4000 PSIG, OK. Start break down; pump 5 BOW, break @ 2200 psi, 4.5 BPM. Start balls, 1 per BBL, pumped 50 BOW to ball off 60 BBL load. Serge ball back; pump for rate 6.1 BPM @ 2600 PSIG, ISIP 1300 psi, 5 min 1000 psi, RD Western, swab 9 runs, swab back 51 BBL of fluid. POOH w/12 jts tbg. Total load to recover - 451 BOW.  
DC: \$8,560 CC: \$251,531
- 8-6-93 Casing 470 PSIG & flow well back. TIH w/BP retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD Pkr, 1 SN, & 165 jts 2-7/8" tbg. Tag fill @ 5,165' KB, POOH to 4,768' KB w/bottom of tbg. Set Pkr @ 4,731' KB. Flow back 30 BOW. Swab 25 runs, flow & swab 180 BOW, last 2 runs 30% oil no sand. Release Pkr, TIH to fill, circulate csg. Clean w/2% KCL water, release BP, TOOH w/tbg, seat nipple, Pkr & BP. Mud anchor landed @ 4,766.96' KB.  
DC: \$9,243 CC: \$260,774
- 8-7-93 Casing 5 PSIG, tbg 10 PSIG. ND BOP, NU well head. TIH w/1 BHP 2-1/2 x 1-1/2 x 16'. 6 1" x 25" rods. EL w/2-1/2" guides. 182 3/4" x 25' slick rods. 1 1-1/4" x 16' polish rod. Seat pump & press test tbg 1000 PSIG, 10 min - OK. RDMO.  
DC: \$883 CC: \$261,657
- 8-9-93 Tear fence down. Suck pit out, haul in sand for tank & unit pad. Start backfill on pit. Start equipment move.  
DC: \$1,927 CC: \$263,584

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3X

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

8-10-93 Continue to reclaim reserve pit. Start pad for beam pump. Start equipment hook up. Complete reserve pit reclamation.  
DC: \$3,069 CC: \$266,653

Post-It™ brand fax transmittal memo 7871		# of pages ▶
STATE OF UTAH	From	JENNIE RAFTSD
DIV. OIL, GAS & MINING	Co.	BALCRON OIL
	Phone #	406.259.7860
Fax 1-801-359-3940	Fax	406.245.1361



Durwood Johnson  
Petroleum Geologist



3118 AVENUE F  
BILLINGS, MONTANA 59102  
(406) 656-4872

August 10, 1993

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

**CONFIDENTIAL**

Gentlemen:

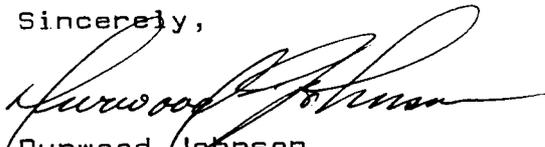
Two copies each of the geological reports are enclosed for your files:

Balcron Federal #24-3Y  
SE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 3-T9S-R17E  
Duchesne County, Utah

Balcron Federal 22-10Y  
SE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 10, T9S-R17E  
Duchesne County, Utah

If you have any questions, please contact me.

Sincerely,

  
Durwood Johnson

DJ/jb  
Enclosures

**RECEIVED**

AUG 13 1993

DIVISION OF  
OIL GAS & MINING

GEOLOGICAL WELLSITE REPORT

Balcron Oil Company  
Federal No. 24-3Y  
Sw $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 3-T9N-R17E  
Duchesne County, Utah  
43-013-31397

CONFIDENTIAL

RECEIVED

AUG 13 1993

DIVISION OF  
OIL GAS & MINING

GEOLOGICAL WELLSITE REPORT

Balcron Oil Company  
Federal No. 24-3Y  
Sw $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 3-T9N-R17E  
Duchesne County, Utah  
43-013-31397

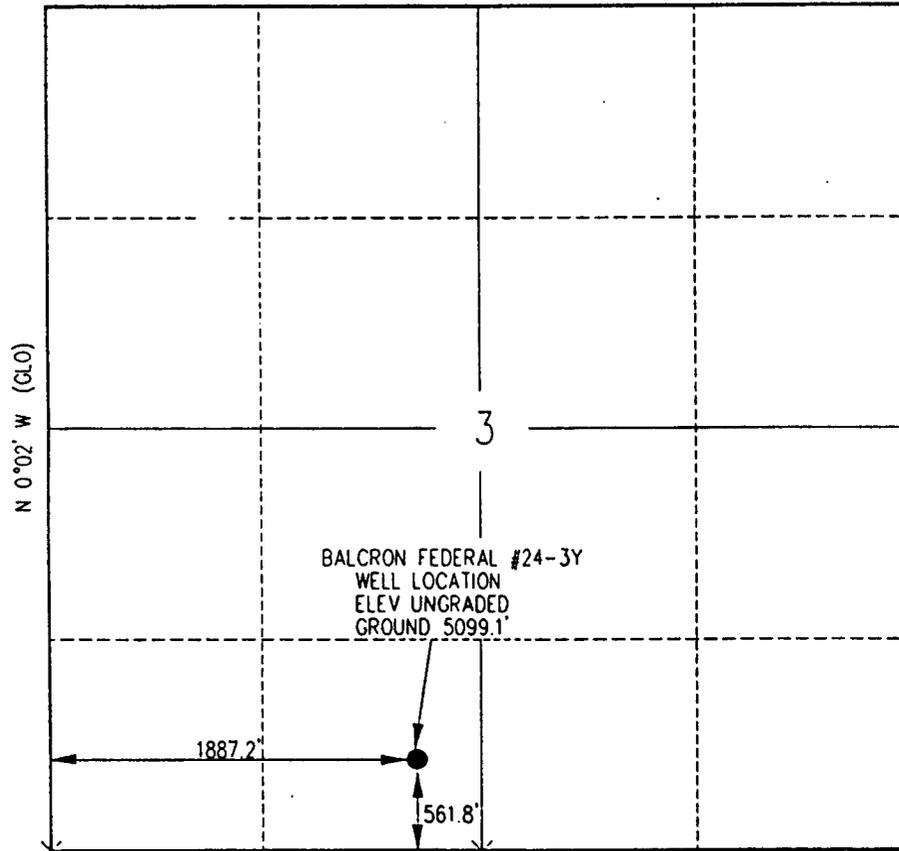
Durwood Johnson  
Petroleum Geologist  
3118 Avenue F  
Billings, MT 59102  
(406) 656-4872

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Sample Description	12-24
Penetration Log	In Pocket

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

N 89°58' E (GLO)



BALCRON FEDERAL #24-3Y  
WELL LOCATION  
ELEV UNGRADED  
GROUND 5099.1'

BASIS OF BEARING S 89°57' W (GLO)

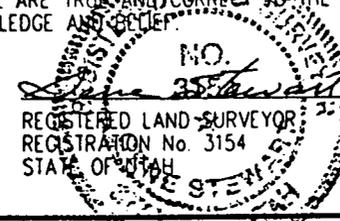
X = SECTION CORNERS LOCATED  
BASIS OF BEARINGS: G.L.O. PLAT 1911  
BASIS OF ELEV: U.S.G.S. 7-1/2 min OQUAD (PARIETTE DRAW SW)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #24-3Y,  
LOCATED AS SHOWN IN THE SE 1/4 SW 1/4  
OF SECTION 3, T9S, R17E, S.L.B. & M,  
DUCHESNE COUNTY UTAH.



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



TRI STATE LAND SURVEYING & CONSULTING  
38 EAST 100 NORTH, VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/29/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #24-3Y

DATA SHEET

OPERATOR: Balcron Oil Company

WELL NAME: Federal No. 24-3Y Lease U-64381

LOCATION: SW¼SE¼ (562' fsl-1887' fw1) Section 3, Township 9 South, Range 17 East, Duchesne County, Utah

AREA: Monument Butte Field

ELEVATIONS: Ground 5099.1 ungraded KB 5109.85 graded

SPUDED: July 10, 1993 @ 7:00 PM

DRILLED OUT: July 12, 1993 @ 7:30 PM

REACHED T.O.: July 21, 1993 @ 4:00 PM

COMPLETED: July 23, 1993 @ 7:00 AM

TOTAL DEPTH: 5900' Driller 5899' Schlumberger

STATUS: Oil Well

HOLE SIZE: 12¼" Surface-260' 7 7/8" 260'-T.O.

DRILLING FLUID: Air & foam Surface - 5066  
Kcl Water 5066-5900

SURFACE CSG.: Ran 6 jts (249.70') 8 5/8", 24 lb, new casing to 258.70' KB. Cemented w/150 sxs premium, 2% CaCl<sub>2</sub>, ¼ lb per sx flocele. Plugged down July 11, 1993 @ 5:30 AM.

PRODUCTION CSG.: Ran 135 jts (5884.59') 5½", 15.5 lb, J-55 w/float collar & guide shoe to 5883' KB. Cemented w/150 sxs Hifill Standard followed by 470 sxs 50:50 Poz. Good returns. Plug down @ 7:00 AM, 7-23-93.

DSTs: None. CORES: None.

LOGGING: Schlumberger Engineer: Gebhart Vernal, UT  
1. IL w/SFL w/GR & SP BSC-TD  
2. LOT/CNL w/GR & Cal 3700'-TD

MUD LOGGING: Continental Lab. Olsen & Vodall Billings, MT

CONTRACTOR: Union Drilling Co. Rig 17 Dave Gary, Toolpusher

SUPERVISION: Al Plunkett Gillette, WY

GEOLOGIST: Durwood Johnson Billings, MT

FORMATION TOPS

	<u>Depth</u>	<u>Datum</u>	<u>Reference Well *</u>
TERTIARY			
Unita	Surface		
Green River	1411	+3699	21' High
2nd Garden Gulch	3797	+1313	48' High
Yellow Marker	4410	+ 700	47' High
Douglas Creek	4577	+ 533	44' High
R-5 Sand	4766	+ 344	49' High
2nd Douglas Creek	4815	+ 295	47' High
Green Marker	4952	+ 158	58' High
Carbonate Marker	5411	- 301	48' High
B-1 Sand	5442	- 332	
Stray Sand	5481	- 371	
B-2 Sand	5504	- 394	51' High
Uteland Carbonate Marker	5817	- 707	43' High
TOTAL DEPTH:			
Schlumberger	5899	1' fill	
Driller	5900		

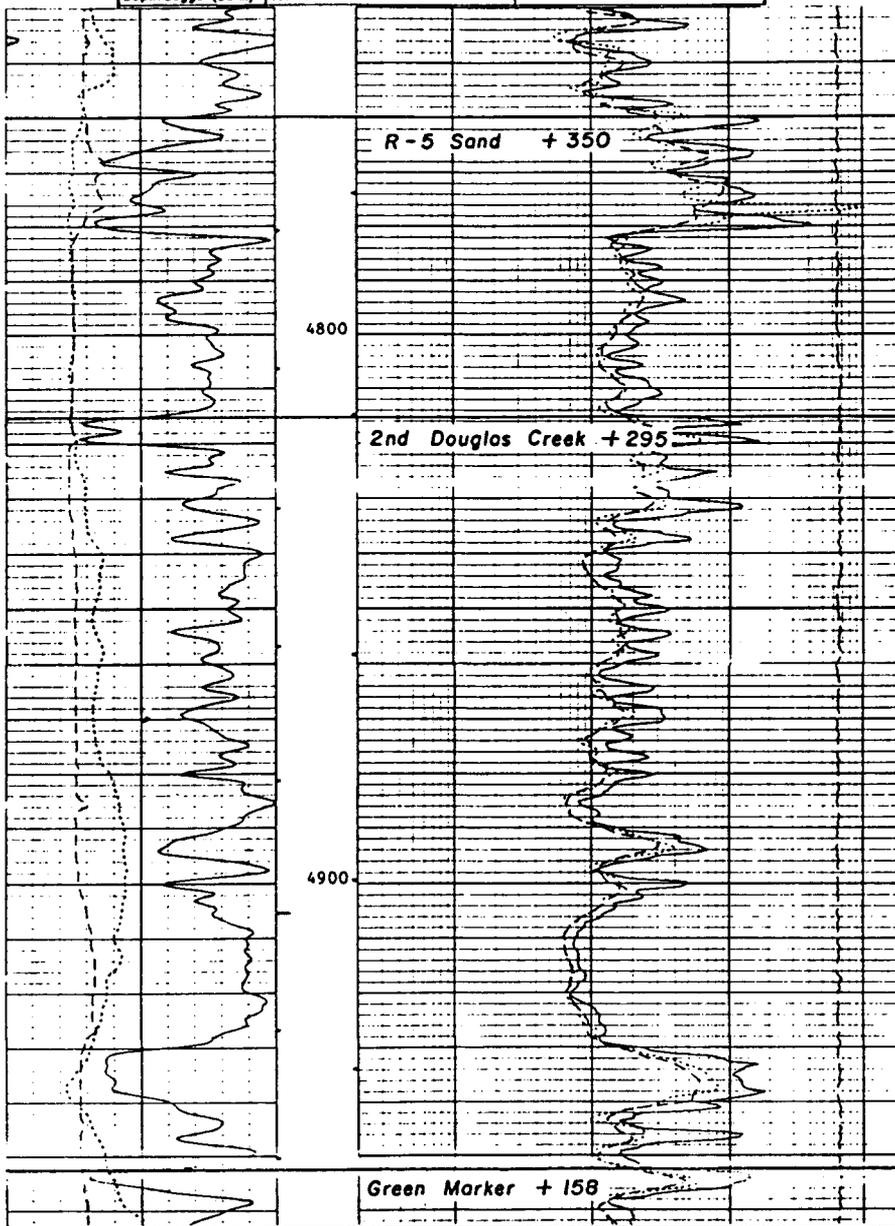
\* Reference Well:

Enserch-Monument Butte 1-3  
 NW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 3-T9S-R17E

Schlumberger

**DUAL INDUCTION - SFL**  
WITH LINEAR CORRELATION LOG

COUNTY FIELD LOCATION WELL COMPANY	COMPANY BALCRON OIL COMPANY WELL BALCRON FEDERAL #24-3Y FIELD MONUMENT BUTTE COUNTY DUCHESNE STATE UTAH
	LOCATION 561 8F SL & 1887 2F WL SE SW API SERIAL NO. SECT. TWP. RANGE 3 9S 17E
Permanent Datum GROUND LEVEL Elev. 5100 0 F Log Measured From KB 10 0 F above Perm. Datum Drilling Measured From KB	Elev.: K.B. 5110 0 F D.F. 5109 0 F G.L. 5100 0 F
Date	22-JUL-1983
Run No.	ONE
Depth Driller	5900 0 F
Depth Logger (Schl.)	5899 0 F

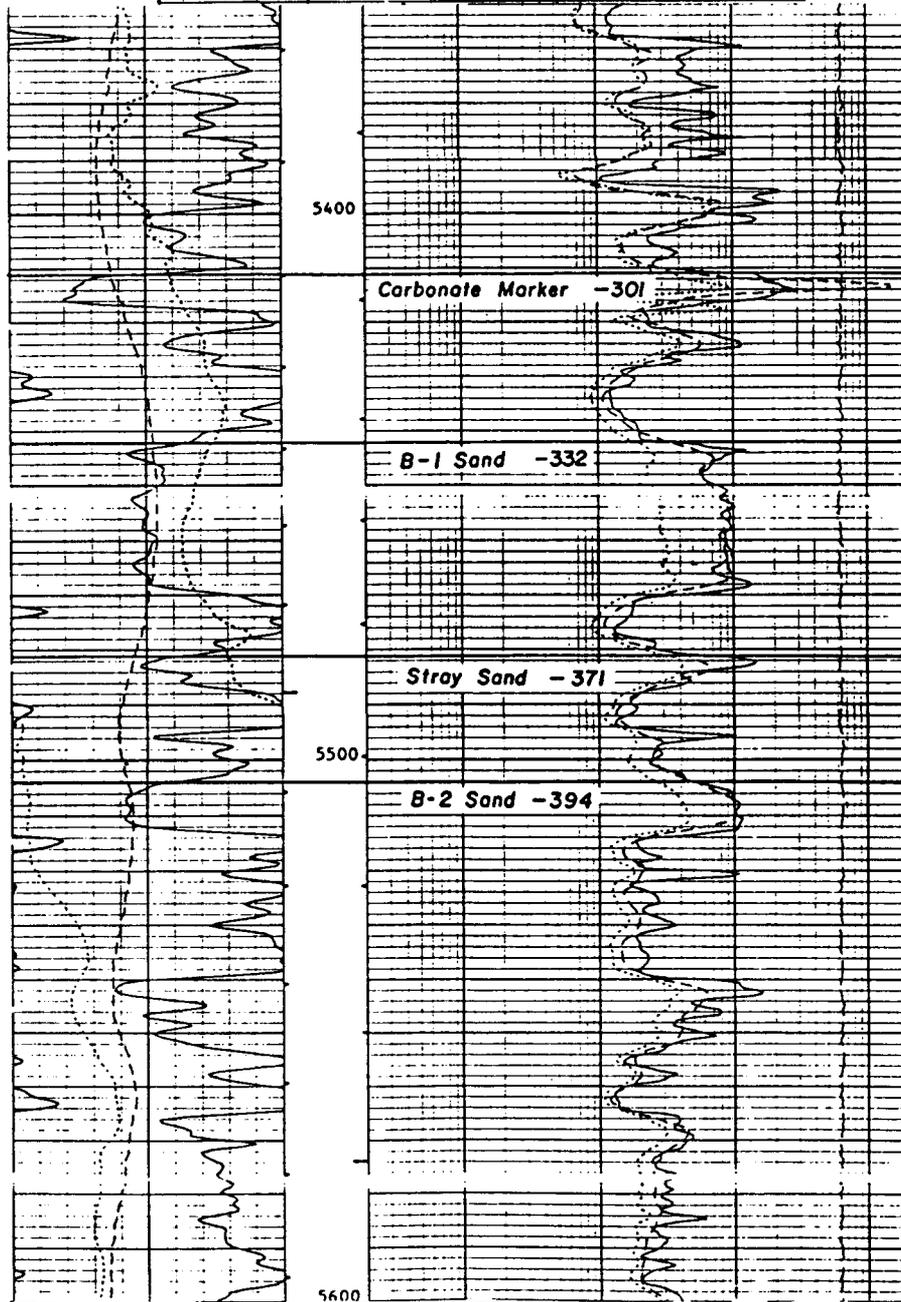


CALI (IN.)		TENS (LBF)	
0.0000	18.000	10000	0.0
GR (GAPI)		SFL (OHMM)	
0.0	150.00	20000	2000.0
SP (MV.)		ILM (OHMM)	
-100.0	0.0	20000	2000.0
		ILD (OHMM)	
		20000	2000.0

Schlumberger

**DUAL INDUCTION - SFL**  
WITH LINEAR CORRELATION LOG

COUNTY FIELD LOCATION WELL COMPLEY	COMPANY	BALCRON OIL COMPANY		
	WELL	BALCRON FEDERAL #24-3Y		
	FIELD	MONUMENT BUTTE		
	COUNTY	DUCHESNE	STATE	UTAH
LOCATION	561 8FSL & 1887 2FWL			Other Services: DIL/SFL LDT ONL
SE SW				
API SERIAL NO.	SECT.	TWP.	RANGE	
	3	9S	17E	
Permanent Datum	GROUND LEVEL	Elev.	5100.0 F	Elev.: K.B. 5110.0 F
Log Measured From	KB	10.0 F	above Perm. Datum	D.F. 5108.0 F
Drilling Measured From	KB			G.L. 5100.0 F
Date	22-JUL-1983			
Run No.	ONE			
Depth Driller	5900.0 F			
Depth Logger (Schl.)	5899.0 F			



CAL (IN.)		TENS (LBF)	
6.0000	16.000	10000	0.0
GR(GAP)		SFL(OHMM)	
0.0	150.00	20000	2000.0
SP(MV)		LM(OHMM)	
		20000	2000.0
		LD(OHMM)	

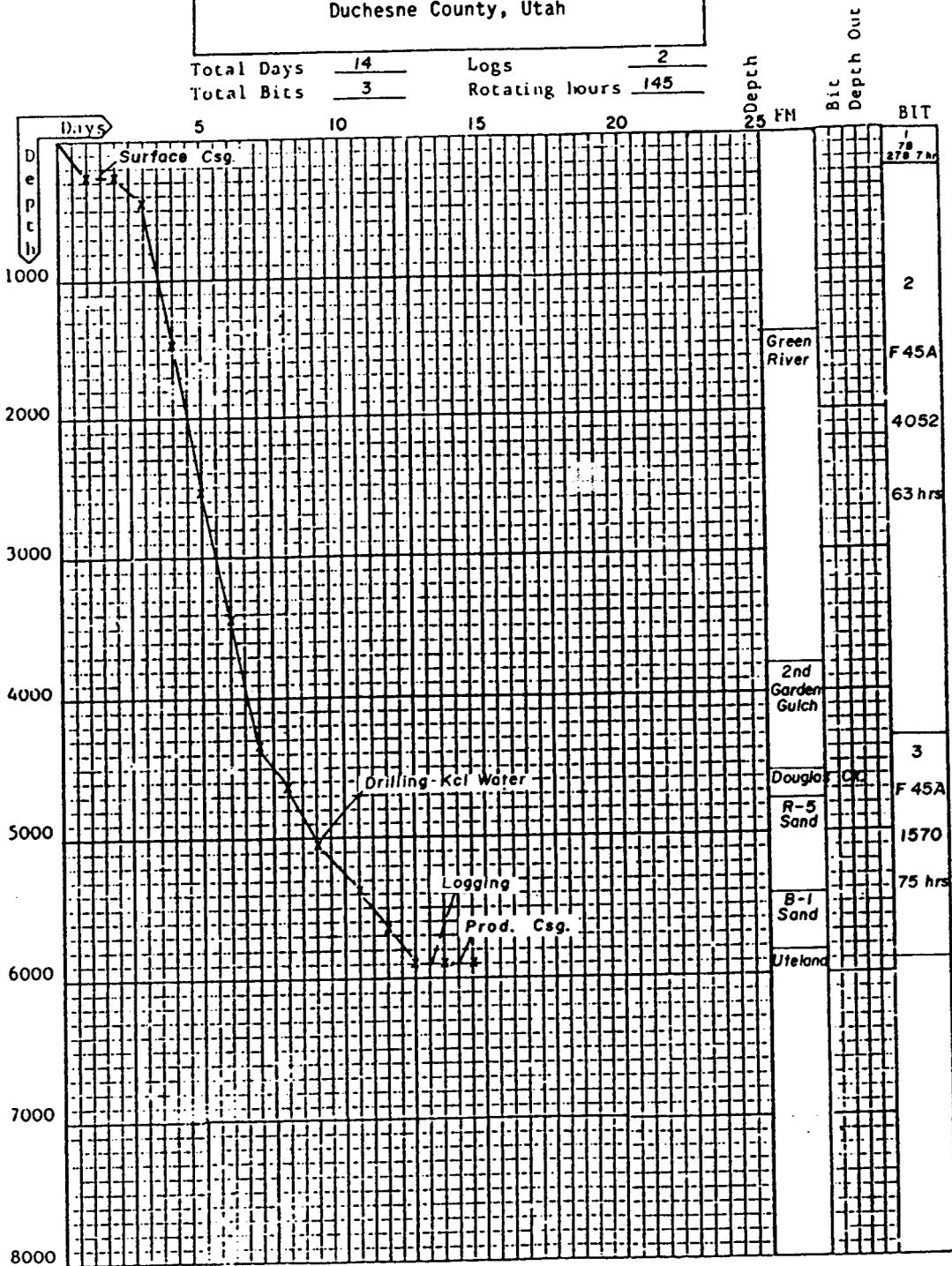
SHOW REPORT

FM	DEPTH	DRILL RATE mpf			TOTAL GAS units			CHROMATOGRAPHII ppm				Remarks
		before	during	after	before	peak	after	c1	c2	c3	c4	
	4766-76	1	.6	1	3	34		3900	380	310	70	14 brn-brn str 14 yel-yel flr Good whitish-yellow cut
	5308-48	3	1.5	3	6	90		7720	1260	520	400	Sh dk brn, bk, platy, calc
	5440-62	32	1.2	3.5	12	648	24	31,000	6800	5300	2100	ss vf-fg, fair-good sort 14 brn str, 14 yel-yel flr good rapid 14 yel cut
	5482-86	4.0	1.5	4.0	24	280	24	19,000	3900	3200	2100	ss as abv. br, yel flr w/ greenish cast flashing whitish yel cut
	5506-16	4.0	1.0	3.5	24	450		25,000	4900	3700	2100	ss as abv flr cut as abv.
	5880-82		2.0	2.5		180		25,900	3800	2700	600	ss dk brn, cryptox/n No vis per sply
	5884-86	2.5	2.0	7.0		160		21,600	3500	2000	400	as above
	5888-90	7.0	6.0	11.0		200		24,700	3800	3100	600	as above
	5896-98	11.0	6.0	7.0		120		10,200	900	600	100	as above

PENETRATION CHART

Balcron Oil Co. Federal No. 24-3Y  
 SW $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 3-T9S-R17E  
 Duchesne County, Utah

Total Days 14 Logs 2  
 Total Bits 3 Rotating hours 145



DAILY MUD DATA

WELL# FED. 24-3Y

MUD CO. MUSTANG DRILLING FLUIDS

ENGINEER CRAIG HART

DATE	DEPTH	WT.	VIS	PLAS VIS	YIELD	GEL	FH	WL	FIL CK	KD-700	CAL	SAND %	SOLIDS %	CHLORIDE	H2O	KCl	DREYAGE	DAILY COST	CUM COST
7-11-93	248	8.3	27				7.2	N/C			280				100%		35		35
7-12-93	248	8.3	27				7.2	N/C			280				100%			-0-	35
7-13-93	617	8.3	27				7.2	N/C			280			400	100%			-0-	
7-14-93	1580	8.3	27				7.4	N/C			300			400	100%			27	62
7-15-93	2667	8.3	27				7.6	N/C		230	300			10,100	100%	2.1%		832	894
7-16-93	3531	8.3	27				7.6	N/C		198	280			11,000	100%	2.2%		798	1692
7-17-93	4330	8.3	27				11.0	N/C		165	440			5600	100%	1.1%		627	2319
7-18-93	4706	8.4	27				10.0	N/C		231	60				100%	1.9%		314	2633
7-19-93	5066	8.4	27				9.6	N/C		198	20			9100	100%	1.9%		127	2760
7-20-93	5411	8.4	27				10.6	N/C		165	40			12,800	100%	2.9%		1156	3916
7-21-93	5700	8.4	27				11.4	N/C		198	40			15,600	100%	3.2%		1560	5476
7-22-93	5900	8.4	27				11.6	N/C		423	40			15,300	100%	3.1%		423	5899

PRINTED IN U S A

# BIT RECORD

COUNTY <b>DUCHEPNE</b>	FIELD <b>MONUMENT BUTTE</b>	STATE <b>UTAH</b>	SECTION <b>3</b>	TOWNSHIP <b>9 S</b>	RANGE <b>17 E</b>	LOCATION <b>SFSW 562' fwl - 1887' fwl</b>	WELL NO <b>24-34</b>
CONTRACTOR <b>UNION DRILLING CO.</b>		RIG NO. <b>17</b>	OPERATOR <b>BALCRON OIL COMPANY</b>		TOOLPUSHER <b>DAVE GRAY</b>	SALESMAN <b>SAWLINSKI, SATTERFIELD, WHITE</b>	
SPUD <b>7:00 PM</b>	UNDER SURF <b>7:30 PM</b>	UNDER INTER	SET SAND BT	REACHED T D <b>4:00 AM</b>	PUMP NO. 1 <b>GD FXN</b>	LINER <b>5 1/2" X 14"</b>	PUMP NO. 2
<b>7-10-93</b>	<b>7-12-93</b>			<b>7-22-93</b>			
DRILL PIPE <b>4 1/2" XH</b>	TOOL JOINTS	SIZE <b>16.60</b>	TYPE <b>4 1/2"</b>	OD	DRILL COLLARS <b>18</b>	OD <b>6 5/8</b>	ID <b>2 1/2"</b>
					NUMBER <b>557'</b>		LENGTH <b>343 CAT</b>
							DRAWWORKS POWER <b>343 CAT</b>

NO.	SIZE	MAKE	TYPE	JET 32ND IN	SERIAL	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM DLG HRS.	WT 1000 LBS	R P M	VERT DEV	PUMP PRESS	PUMP OPER. ATION	S P M		MUD			DULL. COND.			FORMATION REMARKS		
																1	2	WT	VIS	WL	T	B	G		OTHER	
1	17"	1A	F B	Open	B112P	18	18	1	18.0	1	16	20														
2	12 1/4"	1A	F B	Open	9009391	278	260	5 3/4	45.2	6 3/4	55	40		150												AIR & Mist
3	7 7/8"	STC	F45A	3-3/4"	KV9879	4330	4052	63	64.3	69 3/4	55	40		140												" " B 5
4	7 7/8"	STC	F45A	3-3/4" 3-16"	KW0083	5900	1570	75 1/2	209	145	50	60/70		500			56	8.4	27	N/L	B	5				

WELL HISTORY

<u>Day</u>	<u>Date</u>	<u>Depth</u>	<u>Operation</u>	<u>Activity Previous 24 hrs. 6:00 AM-6:00 AM</u>
1	1993 7-11	278	WOC	Complete rigging up. Drill rat hole & 17" conductor hole. Spud 12 1/4" surface @ 7:00 PM. Drill from 29' to 278' in 6 3/4 hrs. Clean hole, trip out. Run 6 jts 8 5/8" csg to 258.70' KB. Cement w/150 xs. Plug down @ 5:30AM, 7-11-93. WOC.
2	7-12	278	Testing BOP	WOC. Weld csg head & test. Nipple up BOPs - held @ 2000 psi, test casing & choke manifold.
3	7-13	450	Drilling	Test BOP choke. Weld on flow line. Trip in hole w/Bit 2. Cement @ 223'. Drill cement & shoe - 2 hrs. Drill out @ 7:30 PM, 7-12-93. Drill 7 7/8" hole w/air & foam from 278' to 450'. Made 172' in 6 hrs.
4	7-14	1496	Drilling	Drill & survey from 450 to 1496'. Made 1046' in 22 1/2 hrs.
5	7-15	2521	Drilling	Drill & survey from 1496 to 2521'. Made 1025' in 21 1/2 hrs.
6	7-16	3428	Drilling	Drill & survey from 2521 to 3428'. Made 907' in 21 1/2 hrs.
7	7-17	4330	Circu- lating	Drill & survey from 3428 to 4330'. Cir- culating for bit trip. Made 902' in 21 1/2 hrs.
8	7-18	4626	Drilling	Trip out for new bit. SLM - no correction. Trip in Bit 3. Blow water out from 3400 '. Drill from 4330 to 4626'. Made 296' in 8 1/2 hrs.
9	7-19	5066	Tripping	Drill from 4626 to 5066'. Made 440' in 12 hrs. Difficult to clean hole from 4800 to 5066'. Decided to load hole w/ Kcl water. Float plugged. Trip out to change jets in bit.
10	7-20	5370	Drilling	Trip in & load hole w/Kcl water. Drill from 5069 to 5370'. Made 301' in 14 3/4 hrs.
11	7-21	5688	Drilling	Drill & survey from 5370 to 5688'. Made 318' in 21 1/2 hrs.

<u>Day</u>	<u>Date</u>	<u>Depth</u>	<u>Operation</u>	<u>Activity Previous 24 Hrs. 6:00 AM-6:00 AM</u>
	1993			
12	7-22	5900	Tripping	Drill from 5688 to 5900'. Made 212' in 21 hrs. Pump sweeps & circulate - 2 hrs. Trip out for logs. Logging. Run DIL LDT/CNL - 4 hrs. Trip in. Circulate.
13	7-23	5900	Cementing	Trip out laying down drill pipe. Run casing. Prep. to cement.
14	7-24	5900		Cement 5½" casing. Plug down @ 7:00 AM, 7-23-93. Rig released @ 11:00 AM, 7-23-93.

Balcron-Federal 24-34  
SE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 3-T9S-R17E  
Duchesne County, Utah

SAMPLE DESCRIPTION

Geologist on wellsite at 1000 feet. Samples lagged and caught by Continental Lab. Sample is fair to good unless noted otherwise. Sample descriptions are adjusted to Dual Induction depths with shows underlined. Samples caught at the following intervals:

50'	1300-3800
30'	3800-5740
10'	5640-T.D.

- 1300-1350 Sandstone, very fine grained. light gray, grayish-white, fair-good sorting, sub-rounded to sub-angular, calcareous in part, appears tight, possible poor porosity, no show; occasional streaks Shale, dark gray, gray, lumpy, soft.
- 1350-1400 Shale, light to medium gray, gray-tan, brown, chunky, silty, soft; interbedded Siltstone, occasionally grades to fine Sandstone, light gray, argillaceous, calcareous in part, appears tight.
- GREEN RIVER 1411 (+3699)
- 1400-1450 Shale, dark gray, gray, gray-tan, calcareous, chunky; streaks Dolomite, cryptocrystalline, bright light tan, dull orange, argillaceous, limey in part, grades to marl, abundant medium to dull yellow and gold fluorescence, fair slow light whitish yellow cloudy cut.
- 1450-1500 Shale, dark gray-brown, chunky, blocky, slightly calcareous and dolomitic, silty, indurated, trace fluorescence, as above, several chips yielding cut, as above.
- 1500-1550 Marl, microcrystalline, earthy, medium brown, dolomitic and calcareous; occasionally grades to calcareous Shale; streaks Dolomite, micro-cryptocrystalline, brown, very argillaceous, tight, abundant yellow, yellow-gold fluorescence, fair light yellow streaming and cloudy cut.
- 1550-1650 Marl, bright medium brown, gray-tan, dull reddish orange, blocky, firm, well indurated; grades to argillaceous Dolomite, slight decrease in fluorescence, as above, cut as above; @ 1600 Marl becomes predominately deep reddish brown, blocky, fluorescence and cut

as above.

- 1650-1700 Shale, reddish brown, increased gray-brown, brown, blocky, well indurated, moderately calcareous and dolomitic, grading to Marl, scattered fluorescence, as above, weak cut, as above.
- 1700-1800 Dolomite, micro-cryptocrystalline, light brown, reddish brown, argillaceous; grades to Marl, scattered light yellow to yellow fluorescence, abundant yellow-gold fluorescence, fair to good streaming whitish yellow cut.
- 1800-1850 Marl, as above, becomes very shaley; streaks Shale, gray-tan, chunky, calcareous and dolomitic; occasional streaks Dolomite, micro-cryptocrystalline, bright tan, light brown, very argillaceous, abundant dull yellow to light gold fluorescence, fair light yellow streaming and cloudy cut.
- 1850-1900 Shale, chunky, brown, gray-brown, slight greenish cast, calcareous and dolomitic; grades to Marl, fluorescence and cut, as above.
- 1900-2000 Shale, chunky, light brown, gray-tan, light gray, calcareous and dolomitic, pyritic in part; grades to Marl; @ 1950 trace Chert, orange, pale yellow; fluorescence, as above.
- 2000-2050 Shale, blocky, chunky, brown, streaks gray-brown, gray-cream, calcareous and dolomitic in part; grades to Marl; streaks Dolomite, microcrystalline, light brown, gray-brown, earthy, very shaley, earthy, dense, abundant light gold to deep gold fluorescence, poor to fair streaming and cloudy cut; trace Chert, orange, light grayish white.
- 2050-2100 Marl, medium brown, occasional streaks gray-brown, blocky, sub-platy, dolomitic and calcareous; grades to calcareous Shale, fluorescence and cut, as above.0
- 2100-2150 Shale, chunky, medium brown, occasionally platy; streaks Marl, brown, gray-brown, dense, fluorescence and cut as above, trace bright light yellow fluorescence, good light yellow cut.
- 2150-2200 Shale, medium to light brown, light gray-green, chunky, firm, dolomitic; trace Dolomite, microcrystalline, brown, very argillaceous, tight; primarily gold fluorescence, scattered bright light yellow fluorescence (5%), good streaming cut.
- 2200-2250 Shale, chunky, gray-green, medium gray, slightly

- dolomitic and pyritic; Dolomite, micro-cryptocrystalline, as above, fluorescence and cut, as above; influx Sandstone, very fine-fine grained, light gray, gray-tan, argillaceous, siliceous, moderately calcareous, tight, no show; trace Chert, orange.
- 2250-2300 Sandstone, very fine grained, tan, light gray-tan, gray, silty, argillaceous, slightly to moderately calcareous, tight, no show.
- 2300-2350 Siltstone-very fine grained Sandstone, tan, light gray, gray-tan, sub-rounded, argillaceous, tight, no show; streaks Shale, chunky, gray-tan, greenish cast, slightly calcareous and silty.
- 2350-2400 Shale, gray-brown, gray-tan, bright brown, chunky, silty and sandy in part, very dolomitic in part; grades to Marl; streaks Shale, black, brownish black, chunky, very slightly calcareous; scattered dull yellow and gold fluorescence, occasional weak light yellow cut.
- 2400-2450 Marl, reddish brown, gray-tan, gray-brown, chunky, sub-platy, very dolomitic, shaley in part; streaks Dolomite, cryptocrystalline, reddish brown, shaley, fairly abundant dull yellow fluorescence, fair bright light whitish yellow cut.
- 2450-2500 Marl, as above, earthy, chunky, sub-platy, very dolomitic; grades to shaley Dolomite in part; fluorescence and cut, as above.
- 2500-2550 Marl, as above; increased Shale, light gray-brown, gray-tan, chunky, sub-platy, calcareous; streaks Marl, as above; scattered dull yellow and gold fluorescence, few chips yield fair light yellow cut.
- 2550-2650 Shale, gray-brown, sub-platy, chunky, dolomitic; streaks Dolomite, microcrystalline, brown, dark brown, very argillaceous; grades to dolomitic Shale; scattered dull yellow fluorescence, occasional poor light yellow cut.
- 2650-2700 Marl, bright brown, tan, lumpy, chunky, moderately calcareous to limey, becomes very shaley; streaks Dolomite, microcrystalline, brown, dense, shaley; abundant dull yellow and gold fluorescence, few slow light yellow cuts.
- 2700-2800 Marl, as above; fluorescence and cut as above; Shale, dark gray-brown, dark gray, lumpy, calcareous; @ 2750 Marl, as above; abundant dull gold fluorescence, scattered bright yellow fluorescence, occasional good light yellow cut.

- 2800-2850 Marl, light brown, tan, grades to argillaceous, dolomite, dull yellow, gold fluorescence, fair-good light yellow streaming cut; Shale, gray-green, blocky, chunky, dolomitic.
- 2850-2900 Shale, as above, silty and sandy in part, dolomitic; Marl, as above; fluorescence and cut as above; streaks Siltstone, light gray-green, argillaceous, dolomitic.
- 2900-2950 Shale, dark gray-brown, gray-green, chunky, dolomitic, very silty in part; grades to argillaceous Siltstone.
- 2950-3000 Marl, tan, brown, reddish brown, blocky, dense; grades to argillaceous shaley Dolomite, trace residual black stain, faint dull yellow fluorescence, faint slow cloudy cut; trace Shale, black, chunky, dolomitic, petroliferous appearance; Shale, gray-green, tan, gray, sub-platy, dolomitic.
- 3000-3050 Dolomite, microcrystalline, very fine crystalline, cream, light tan, argillaceous, scattered yellow and yellow-gold fluorescence, fair to good light yellow streaming cut; streaks Shale, light gray-green, gray-tan, sub-platy, dolomitic; influx Shale, black, lumpy, dolomitic, petroliferous appearance.
- 3050-3100 Siltstone, pale gray, very argillaceous, dolomitic; occasionally grades to very fine grain Sandstone, light gray, white, good sorting, dolomitic, argillaceous, tight, no show; trace Dolomite, micro-sucrosic, cryptocrystalline, tan, argillaceous, occasional spotty brown stain, scattered gold fluorescence, occasional good light yellow cut.
- 3100-3150 Siltstone-very fine grained Sandstone, light gray, white, well sorted, sub-rounded, calcareous, tight, no show; influx Shale, medium gray, gray-green, chunky, noncalcareous to slightly dolomitic.
- 3150-3200 Marl, reddish brown, tan, very dolomitic, earthy in part, dense; grades to shaley Dolomite, scattered dull yellow and gold fluorescence (15%), occasional fair light yellow cut; streaks Shale, gray-green, dark gray, chunky, slightly dolomitic; occasional Siltstone, white, very dolomitic, dense.
- 3200-3250 Marl, tan, earthy, dolomitic; grades to argillaceous Dolomite, tight; streaks Dolomite, cream, tan, earthy, argillaceous, abundant gold and dull yellow fluorescence, fair streaming cut.
- 3250-3300 Limestone, earthy, cream, dolomitic, argillaceous;

influx Shale, dark gray, gray, gray-tan, chunky, non-calcareous; Marl, as above.

- 3300-3400 Limestone, very fine crystalline, microcrystalline, cream, pale tan, scattered oolites in earthy matrix, argillaceous, dolomitic; grades to limey Dolomite; streaks Shale, brown, gray-green, sub-platy, chunky, dolomitic in part.
- 3400-3450 Shale, gray, gray-green, chunky, platy, smooth, occasionally pyritic, slightly dolomitic; occasional streaks Limestone, as above.
- 3450-3500 Shale, as above, becomes very silty in part; influx Siltstone-very fine grained Sandstone, light gray, white, fair sorting, angular, calcareous, appears primarily tight, possible poor porosity, no show; streaks Shale, pale to medium gray, chunky, slightly dolomitic.
- 3500-3550 Sandstone, very fine grained, cream, light gray-white, good sorting, rounded, appears primarily tight, possible poor porosity, no show; streaks Shale, brown, medium gray, gray-green, chunky, smooth, dolomitic.
- 3550-3600 Sandstone, very fine-fine grained, pale tan, cream, light gray, fair sorting, sub-rounded, calcareous, tight; influx Shale, gray-tan, gray, brown, chunky, dolomitic.
- 3600-3650 Limestone, cryptocrystalline, bright tan, brown, dolomitic, argillaceous-shaley; occasional streaks Shale, as above.
- 3650-3700 Limestone, as above; streaks Shale, reddish brown, blocky, argillaceous, very dolomitic in part; occasional streaks Shale, as above.
- 3700-3750 Limestone, micro-cryptocrystalline, bright tan, argillaceous; streaks Shale, as above.
- 3750-3800 Shale, gray-green, gray, lumpy, calcareous, becomes very silty; streaks Limestone, as above; streaks Siltstone-very fine grained Sandstone, light gray, argillaceous, calcareous, appears tight.

2ND GARDEN GULCH 3797 (+1313)

- 3800-3820 Siltstone-very fine grained Sandstone, tan, light grayish white, fair-good sorting, rounded, slightly to moderately calcareous, appears tight, trace poor-fair

- porosity, dark brown and light brown spotty stain, few chips with even stain, good rapid whitish yellow cut; streaks Shale, as above; Limestone, as above.
- 3820-3850 Sandstone, very fine grained, light gray, tan, good sub-angular to sub-rounded, primarily tight, streaks porosity, as above, stain, fluorescence and cut, as above.
- 3850-3870 Limestone, cryptocrystalline, tan, argillaceous, trace oolites in earthy matrix, no visible porosity; influx Shale, green, gray-green, gray-tan, sub-platy; streaks Siltstone-very fine grained Sandstone, light gray, white, slightly calcareous, tight, no show.
- 3870-3900 Sandstone, very fine grained, tan, light gray, good sorting, primarily sub-rounded (loose quartz grains); tan stain? on loose quartz grains, yellow to dull yellow fluorescence with greenish cast, instant good light yellow streaming cut; few chips Shale, as above.
- 3900-3930 Sandstone, very fine-occasionally fine grained, clear, light gray quartz grains, fair-good sorting, sub-rounded, primarily tight, possible poor porosity, no fluorescence, occasional faint slow cloudy cut; streaks Shale, gray-green, olive green, chunky, dolomitic.
- 3930-3960 Sandstone, as above, appears tight, trace stain, scattered dull yellow fluorescence with greenish cast, fairly slow good cut; increased Limestone, cryptocrystalline, tan, earthy, oolitic; trace Shale, emerald green, waxy, non-clcareous.
- 3960-4050 Shale, pale gray, olive green, sub-platy, slightly dolomitic; streaks Sandstone, as above; scattered gold fluorescence, trace slow fairly persistent light yellow cut.
- 4050-4110 Shale, gray, gray-green, gray-brown, chunky, sub-platy, dolomitic; streaks Limestone, cryptocrystalline, tan, sandy in part, very dolomitic in part; appears tight, trace vug porosity, scattered gold fluorescence, fair-good light yellow streaming cut; @ 4080 Shale becomes silty in part.
- 4110-4140 Siltstone, light gray, gray, calcareous, argillaceous; occasionally grades to very fine grained Sandstone, primarily tight, trace spotty brown stain, light yellow-yellow fluorescence with greenish cast, fair light yellow cut; Shale, as above.
- 4140-4170 Sandstone, very fine grained, light gray, tan, silty, good sorting, sub-rounded, slightly dolomitic, silica

cement, appears primarily tight, streaks poor porosity, light tan stain, bright yellow fluorescence, fair-good light yellow cut; interbedded Shale, gray-green, chunky, waxy, silty in part.

- 4170-4200 Siltstone-very fine grained Sandstone, light gray, white, tan, good sorting, appears tight, possible poor porosity; scattered stain, fluorescence and cut, as above; streaks Shale, dark gray, gray-green, gray-tan, chunky, slightly dolomitic.
- 4200-4230 Shale, light to medium gray, brown, platy, smooth, non-calcareous; occasional streaks Limestone, microcrystalline, tan, argillaceous.
- 4230-4260 Shale, gray, gray-green, gray-brown, chunky, smooth; @ 4200 streaks Shale, reddish brown, lumpy, chunky, slightly dolomitic.
- 4260-4320 Limestone, microcrystalline, tan, occasionally silty, few scattered oolites, trace algal laminations, no visible porosity, scattered dull yellow-gold fluorescence, slow faint light yellow cut; streaks Shale, dark gray-brown, brown, platy smooth, slightly dolomitic.
- 4320-4350 Siltstone-very fine grained Sandstone, light gray, white, good sorting, sub-rounded, slightly calcareous, appears siliceous in part, primarily tight, some loose quartz grains, no show; interbedded Shale, as above, silty in part.
- 4350-4380 Siltstone, occasionally grades to Sandstone, very fine grained, light grayish white, calcareous, siliceous, appears tight; trace Sandstone, very fine grained, appears tight, possible poor porosity, light brown stain, light yellow-yellow with greenish cast, instant good whitish yellow cut; interbedded Shale, pale gray-green, sub-platy, waxy.
- 4380-4410 Sandstone, very fine grained, light grayish white, good sorting, rare brown and green accessory grains, slightly calcareous; trace Sandstone, very fine grained; stain, fluorescence and cut, as above; streaks Siltstone, as above; occasional streaks Shale, as above.
- YELLOW MARKER 4410 (+700)
- 4410-4440 Shale, as above; Siltstone, very fine grained, as above, tight, trace stain, fluorescence and cut, as above; trace Limestone, very fine crystalline, microcrystalline, tan, earthy, dolomitic, rare ostracods.

4440-4470 Sandstone, as above; grades to Siltstone, light gray, argillaceous, appears primarily tight, possible streaks poor porosity; increased Shale, pale gray-green, gray-brown, pale green, chunky, sub-platy, very slightly calcareous in part; streaks Limestone, as above, no visible porosity, trace spotty brown stain, fluorescence and cut, as above.

4470-4560 Shale, medium to dark gray, light gray-green, lumpy, sub-platy, smooth; interbedded Siltstone; occasionally grades to very fine grained Sandstone, light grayish white, tan, fair sorting, silty, very slightly calcareous, appears tight; @ 4500 slight increased Siltstone-very fine grained Sandstone, as above.

DOUGLAS CREEK 4577 (+533)

4560-4620 Siltstone, light gray, gray-tan, light brown, argillaceous, siliceous, no visible porosity; trace dull yellow fluorescence, occasional faint cloudy cut; Shale, gray-green, pale gray, lumpy, sub-waxy.

4620-4650 Shale, gray-green, gray-tan, brown, sub-waxy, slightly calcareous, occasionally silty; interbedded Siltstone, as above, fluorescence and cut, as above.

4650-4680 Siltstone-very fine grained Sandstone, light gray-tan, light brown, siliceous in part, good sorting, slightly dolomitic, few loose quartz grains, primarily tight, possible poor porosity, few sand clusters with light brown stain, yellow to dull yellow fluorescence with greenish cast, good instant whitish yellow cut; streaks Shale, as above.

4680-4710 Siltstone-very fine grained Sandstone, as above; trace stain, fluorescence and cut, as above; Shale, as above.

4710-4770 Shale, light-medium gray, pale gray-green, lumpy, smooth, slightly calcareous; streaks Siltstone, light grayish white, siliceous, tight, scattered fluorescence and cut, as above.

R-5 SAND 4760 (+350)

4770-4800 Sandstone, very fine grained, bright tan, light brown, grayish white, silty in part, good sorting, some secondary quartz overgrowths, appears fairly tight, streaks of poor, possibly fair porosity, even light brown to dark brown stain, yellow to dull yellow fluorescence with greenish cast, instant good streaming whitish yellow cut; streaks Shale, as above.

2N<sup>7</sup> DOUGLAS CREEK 4815 (+295)

- 4800-4830 Sandstone, very fine-occasionally fine grained, light brown, dark grayish brown, light gray, good sorting, sub-angular to sub-rounded, very slightly calcareous, fairly tight, loose grains and small clusters common, streaks poor-fair porosity; light brown to dark brown stain, dull yellow, gold fluorescence, instant strong whitish yellow cut; occasional Shale, pale gray, sub-waxy, silty in part.
- 4830-4860 Shale, pale gray, gray-green, chunky, lumpy, slightly calcareous; Siltstone-very fine grained Sandstone, gray-brown, brown, as above; stain, fluorescence and cut, as above.
- 4860-4890 Shale, light-medium gray, brown, chunky, sub-platy, silty and waxy in part; occasional streaks Siltstone, light gray, argillaceous, firm, slightly calcareous.
- 4890-4920 Shale, light gray-green, gray, chunky, smooth, calcareous in part; streaks Shale, tan, platy, moderately calcareous.
- 4920-4950 Siltstone-very fine grained Sandstone, light grayish white, argillaceous, calcareous, tight; Shale, pale gray, lumpy, chunky, smooth, occasionally silty; trace Limestone, cryptocrystalline, light brown, argillaceous, dolomitic, dense.
- GREEN MARKER 4952 (+158)
- 4950-5010 Shale, dark brown, brown, chunky, slightly calcareous, some Shale chips are covered with black oil; influx Limestone, cryptocrystalline, microcrystalline, tan, argillaceous, dolomitic; scattered dull yellow fluorescence with greenish cast, fairly rapid good whitish yellow cut.
- 5010-5040 Siltstone, light gray, argillaceous, slightly calcareous, tight, scattered dull yellow fluorescence with greenish cast, fair rapid good whitish yellow cut; Shale, as above.
- 5040-5070 Siltstone, light gray-tan, slightly calcareous; occasionally grades to Sandstone, very fine grained, light gray, good sorting, calcareous, appears tight; trace light brown stain, gold fluorescence, fair streaming cut; streaks Shale, as above.
- 5070-5100 Siltstone, light brown, gray-brown; occasionally grades to very fine grained Sandstone, argillaceous, slightly calcareous, appears tight; scattered brown

stain, dull yellow-gold fluorescence, rapid light yellow cut; Shale, light-medium gray, pale greenish gray, chunky, sub-waxy, calcareous.

- 5100-5130 Siltstone-very fine grained Sandstone, light gray, occasionally tan-light brown, argillaceous, calcareous, appears tight; some light brown stain, scattered dull yellow-yellow fluorescence, rapid light yellow cut; Shale, as above; occasional streaks Limestone, marly, cryptocrystalline, tan, light brown.
- 5130-5220 Shale, pale to medium gray, light green, waxy, chunky, slightly to moderately calcareous; occasional streaks Siltstone, as above; trace tan to brown stain, dull yellow and gold fluorescence, fairly rapid light yellow cut.
- 5220-5250 Shale, pale gray-green, light gray, chunky, waxy, slightly to moderately calcareous; abundant loose Siltstone and very fine sand grains, possible poor porosity, pale gold fluorescence, some dull yellow fluorescence, rapid light yellow cut.
- 5250-5280 Shale, gray-tan, light gray, chunky, sub-platy, slightly calcareous, silty in part; occasional streaks Siltstone, light gray, brown, argillaceous, calcareous, tight.
- 5280-5310 Shale, as above; trace Shale, black, dark gray-brown, platy, chunky, petroliferous in part, no fluorescence, slow cloudy cut.
- 5310-5340 Shale, black, dark gray-brown, chunky, platy, moderately calcareous in part, petroliferous; streaks Limestone, dark gray-brown, black, very argillaceous, petroliferous; no fluorescence to faint dull yellow fluorescence, slow faint cloudy cut.
- 5340-5400 Shale, gray-brown, dark gray, black, chunky, platy, silty in part, petroliferous, streaks fluorescence and cut, as above.

CARBONATE MARKER 5411 (-301)

- 5400-5430 Shale, brown, dark gray-brown, black, chunky, platy, silty and calcareous in part; streaks Limestone, micro-cryptocrystalline, dark brown, pale gray-tan, very argillaceous-shaley, dolomitic in part; trace scattered dull yellow fluorescence, slow light yellow cut.

B-1 SAND 5442 (-332)

- 5430-5460 Siltstone-very fine grained Sandstone, light gray, occasionally tan, calcareous, fair-good sorting, sub-angular to sub-rounded, appears primarily tight, scattered brown stain, light yellow to yellow fluorescence, good light yellow cut; Shale, pale green, light gray, brown, lumpy and platy, slightly calcareous; streaks Limestone, as above.
- STRAY SAND 5481 (-371)
- 5460-5490 Sandstone, very fine grained, abundant clear and light gray quartz grains, sub-rounded, good sorting, calcareous, poor to fair porosity; scattered tan-light brown oil stain, bright whitish yellow fluorescence with greenish cast, fair-good rapid whitish yellow cut.
- B-2 SAND 5504 (-394)
- 5490-5520 Sandstone, very fine-fine grained, as above, good apparent porosity; tan stain, excellent bright whitish yellow fluorescence with greenish cast, instant flashing whitish yellow cut.
- 5520-5550 Shale, brown, dark gray-brown, chunky, very silty in part, calcareous, abundant loose quartz grains, as above, primarily tight, poor porosity, scattered stain, fluorescence and cut, as above.
- 5550-5580 Sandstone, very fine-fine grained, clear and white loose quartz grains common, sub-rounded, fair sorting, few medium grain, rounded, clear grains, calcareous; trace Shale, light gray-tan, pale greenish gray, splintery, chunky, non-calcareous; trace Siltstone, brown, dark gray-brown, calcareous, very argillaceous. Poor sample.
- 5580-5610 Shale, light brown, dark brown, chunky, silty in part, calcareous-limy; streaks Shale, tan, light brown, blocky, earthy, silty in part, very argillaceous; grades to shaley Limestone; streaks Siltstone-very fine grained Sandstone, pale green, light gray, very argillaceous-shaley, calcareous. Very poor sample.
- 5610-5640 Shale, dark gray-brown, black, medium gray, blocky, chunky, silty, calcareous in part, pyritic, petro-liferous; grades to Siltstone. Poor sample.
- 5640-5650 Sandstone, very fine-fine loose white and clear quartz grains, calcareous and silica cement in part; streaks Siltstone, dark gray, brown, chunky, very argillaceous-shaley.
- 5650-5660 Shale, light gray, pale green, tan, brown, chunky,

- platy, waxy, calcareous and dolomitic; streaks Sandstone, very fine grained, light gray, occasionally tan, silty, sub-rounded, primarily loose quartz grains or very small clusters; trace dull yellow, gold fluorescence, slow faint cut.
- 5660-5690 Shale, dark gray-black, gray-brown, chunky, petro-  
liferous; loose quartz grains, as above; dull yellow-  
gold fluorescence, slow light yellow cut; @ 5670  
streaks Siltstone-very fine grained Sandstone, as  
above; light yellow-yellow fluorescence, rapid whitish  
yellow cut.
- 5690-5700 Limestone, cryptocrystalline, dark gray-brown, black,  
argillaceous-shaley; Shale, as above.
- 5700-5720 Sandstone, very fine grained, primarily loose, clear  
and light gray quartz grains, possible poor porosity;  
gold fluorescence to no fluorescence, faint light yel-  
low cut; Shale, black, chunky, dolomitic; @ 5710  
slight increased Shale, as above.
- 5720-5740 Shale, gray, pale green, brown, chunky, waxy, calcare-  
ous in part; Sandstone, as above; primarily loose  
quartz grains; light yellow-yellow fluorescence, good  
instant light yellow cut.
- 5740-5770 Shale, gray-green, light gray, sub-waxy, silty in  
part, calcareous; abundant loose quartz grains; trace  
dull yellow fluorescence, fair light yellow cut; @  
5760 streaks Siltstone, light gray, gray,  
argillaceous, calcareous, tight, trace fluorescence  
and cut, as above; occasional streaks Limestone,  
earthy, cream, tan, sandy in part.
- 5770-5790 Shale, dark brown, black, limey; streaks Limestone,  
cryptocrystalline, dark gray-brown, argillaceous,  
tight.
- 5790-5800 Shale, pale green, pale gray, waxy, slightly cal-  
careous in part; abundant loose quartz grains.
- 5800-5810 Shale, as above; trace Limestone, earthy, cream, pale  
tan, argillaceous; loose quartz grains common
- UTELAND CARBONATE MARKER 5817 (-707)
- 5810-5820 Limestone, cryptocrystalline, dark gray-brown, argil-  
laceous, dense; Shale, as above.
- 5820-5830 Shale, dark gray-brown, black, moderately calcareous-  
limey; streaks Limestone, cryptocrystalline, dark

- gray-brown, brown, argillaceous.
- 5830-5840 Shale, black, platy, chunky, moderately calcareous; occasional streaks Limestone, earthy, tan, argillaceous-shaley.
- 5840-5850 Shale, as above; streaks Sandstone, very fine grained, light gray, white, fair sorting, sub-rounded, clay and silica cement, appears tight, possible cavings.
- 5850-5870 Shale, black, platy, slightly calcareous; streaks Sandstone, as above; @ 7860 slight increased Sandstone, very fine grained, light gray, fair sorting, sub-rounded, probably cavings.
- 5870-5880 Shale, black, platy, chunky, moderately calcareous; streaks Limestone, cryptocrystalline, dark gray-brown, black, very argillaceous.
- 5880-5900 Limestone, cryptocrystalline, black, dark gray-brown, argillaceous; streaks Shale, as above.

RECEIVED

AUG 13 1993

DIVISION OF  
OIL GAS & MINING

BALCRON OIL COMPANY

Federal No. 24-3Y

*Corps. 43-013-31397 Bal*

SE SW Section 3-T9S-R17E

Duchene County, Utah

Commenced: 7-10-93 Elev. 5099 KB

Completed: 7-23-93 TD 5900

PENETRATION RATE (5' ave.)

PRINTED IN U.S.A.

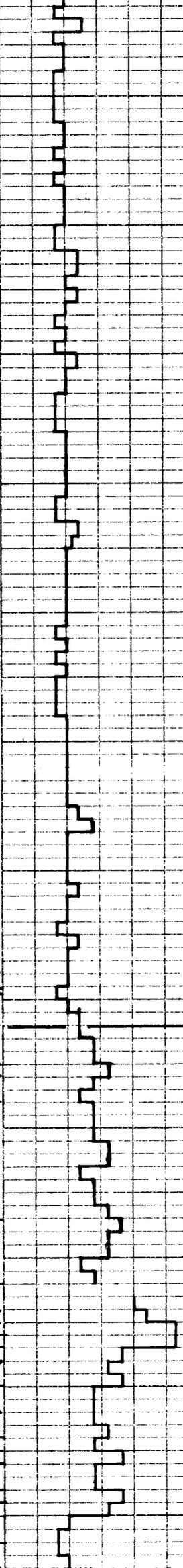
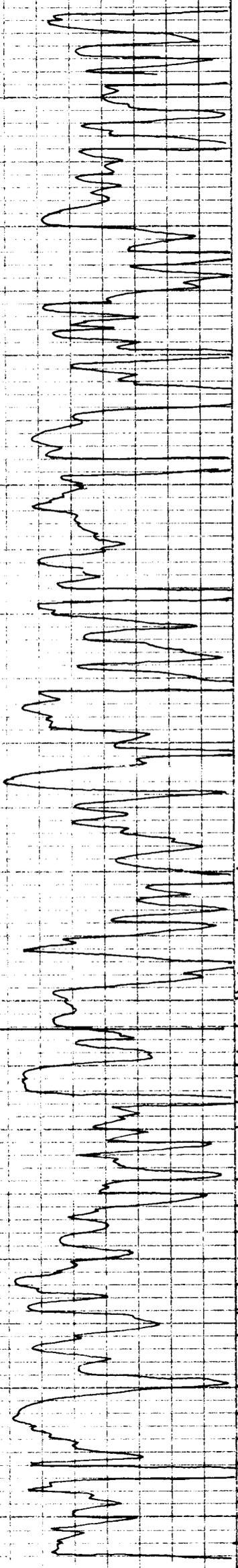
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GRAPHIC CONTROLS CORPORATION

BUFFALO

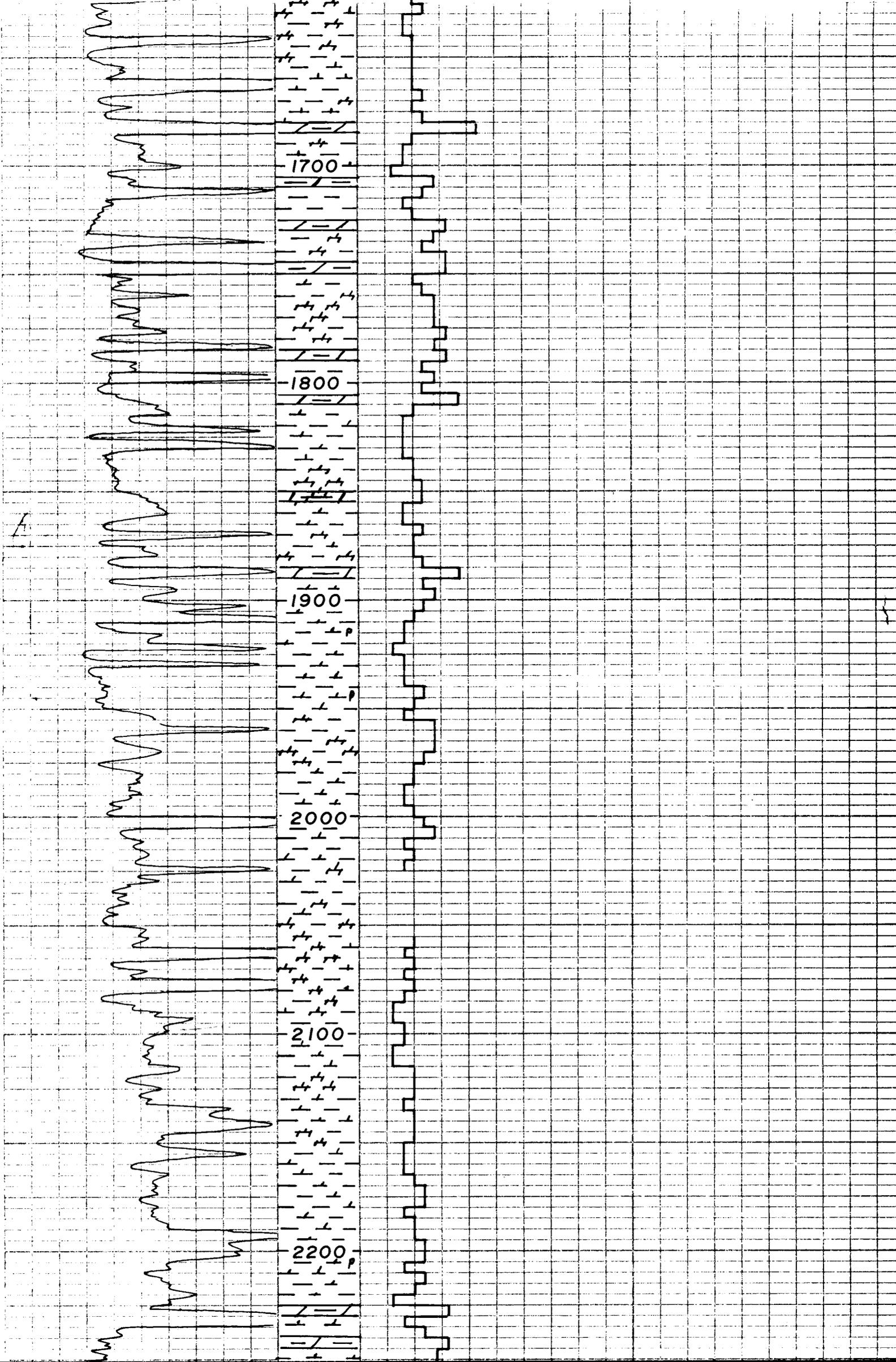
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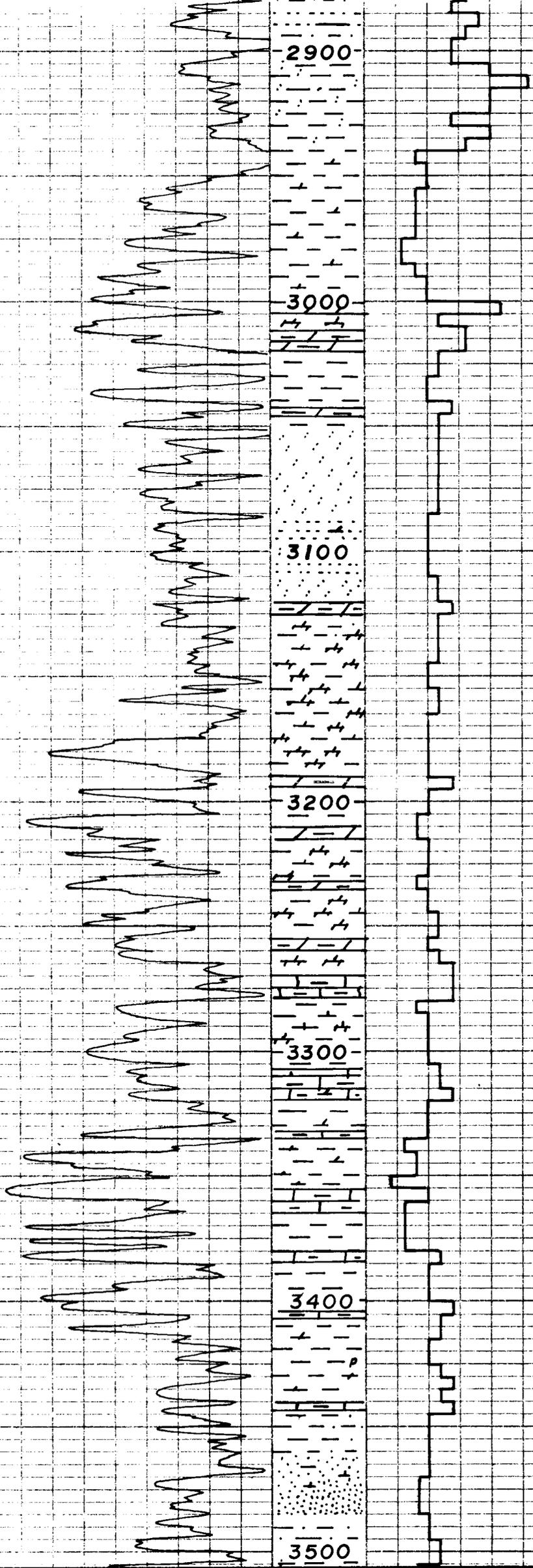
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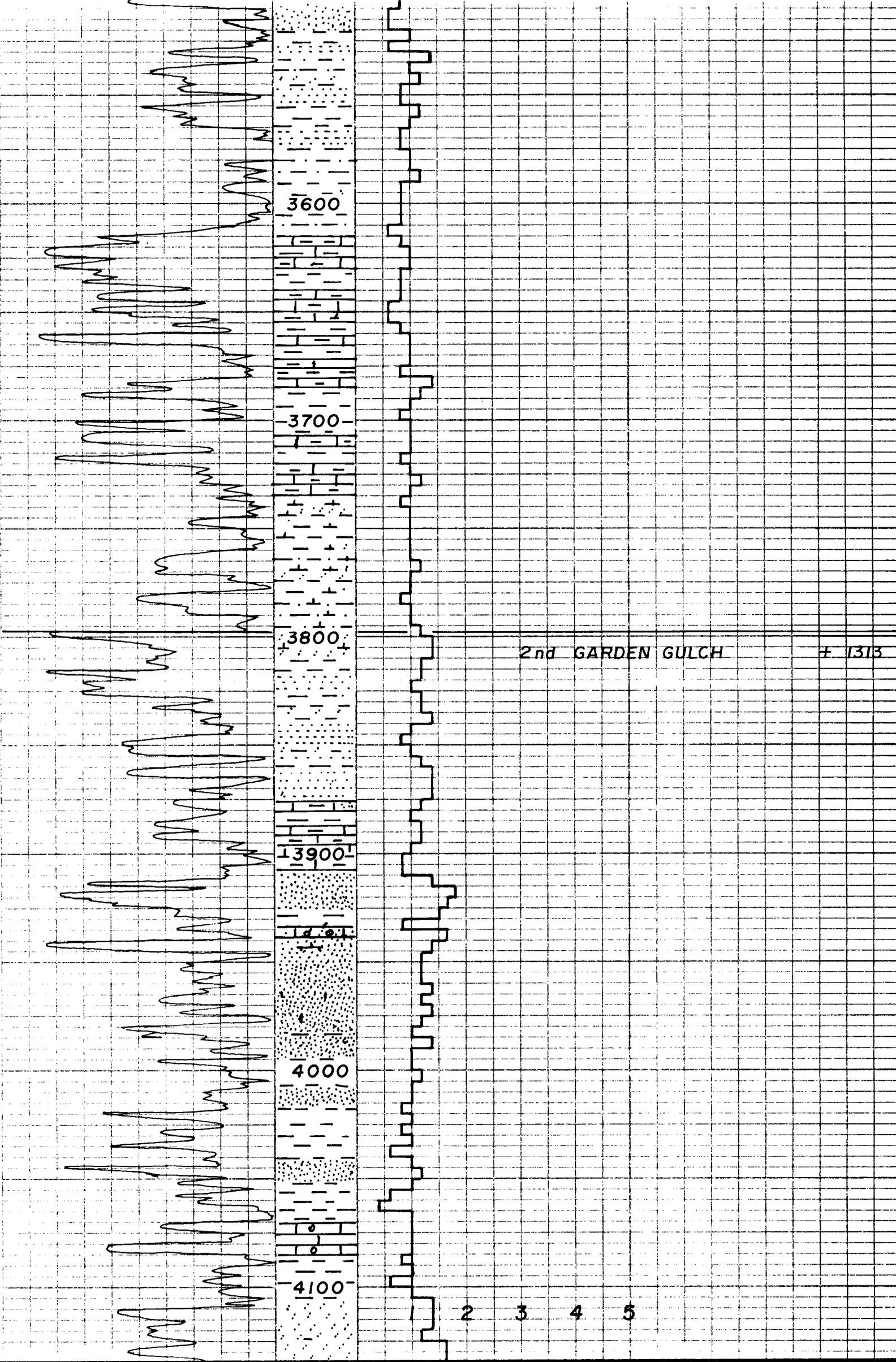


GREEN RIVER

F 3699







7

8

4200

4300

4400

4500

4600

4700

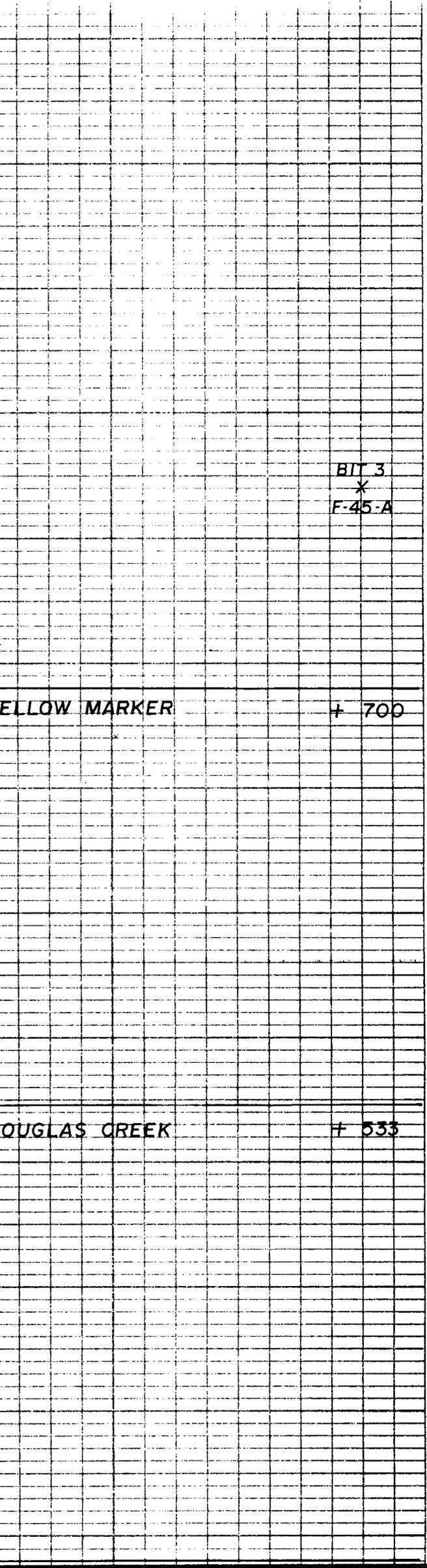
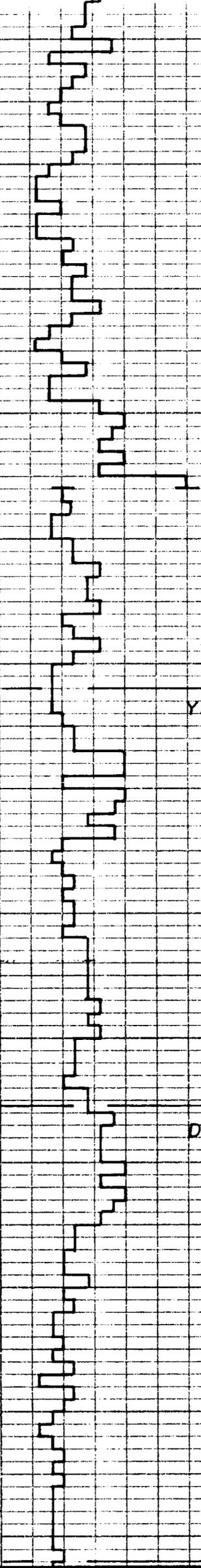
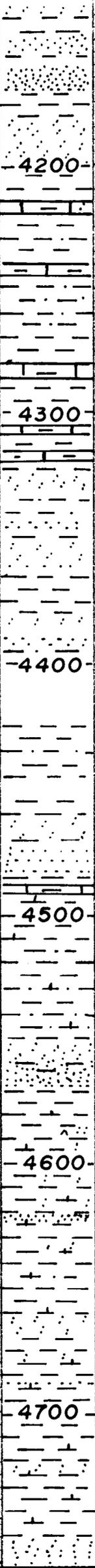
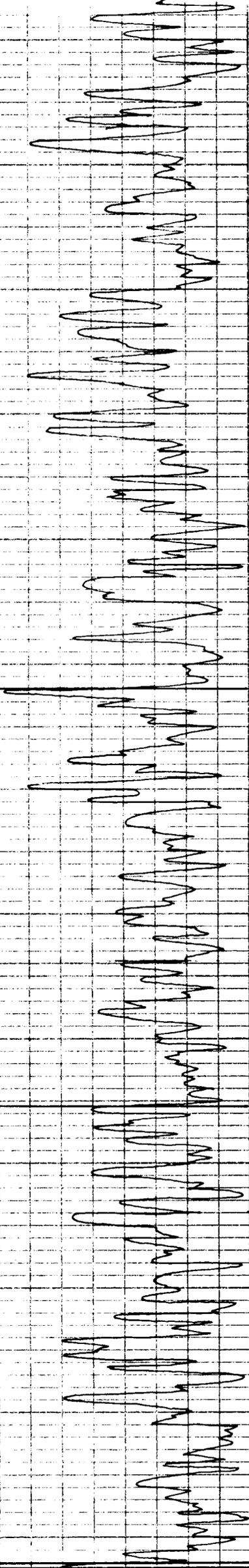
BIT 3  
\*  
F-45-A

YELLOW MARKER

+ 700

DOUGLAS CREEK

+ 533



R-5 SAND

+ 344

2nd DOUGLAS CREEK

+ 295

GREEN MARKER

+ 158

Change from Air & Mist to KCl Water

4800

4900

5000

5100

5200

5300

9

10

PRINTED IN U.S.A.

RECORDING CHART

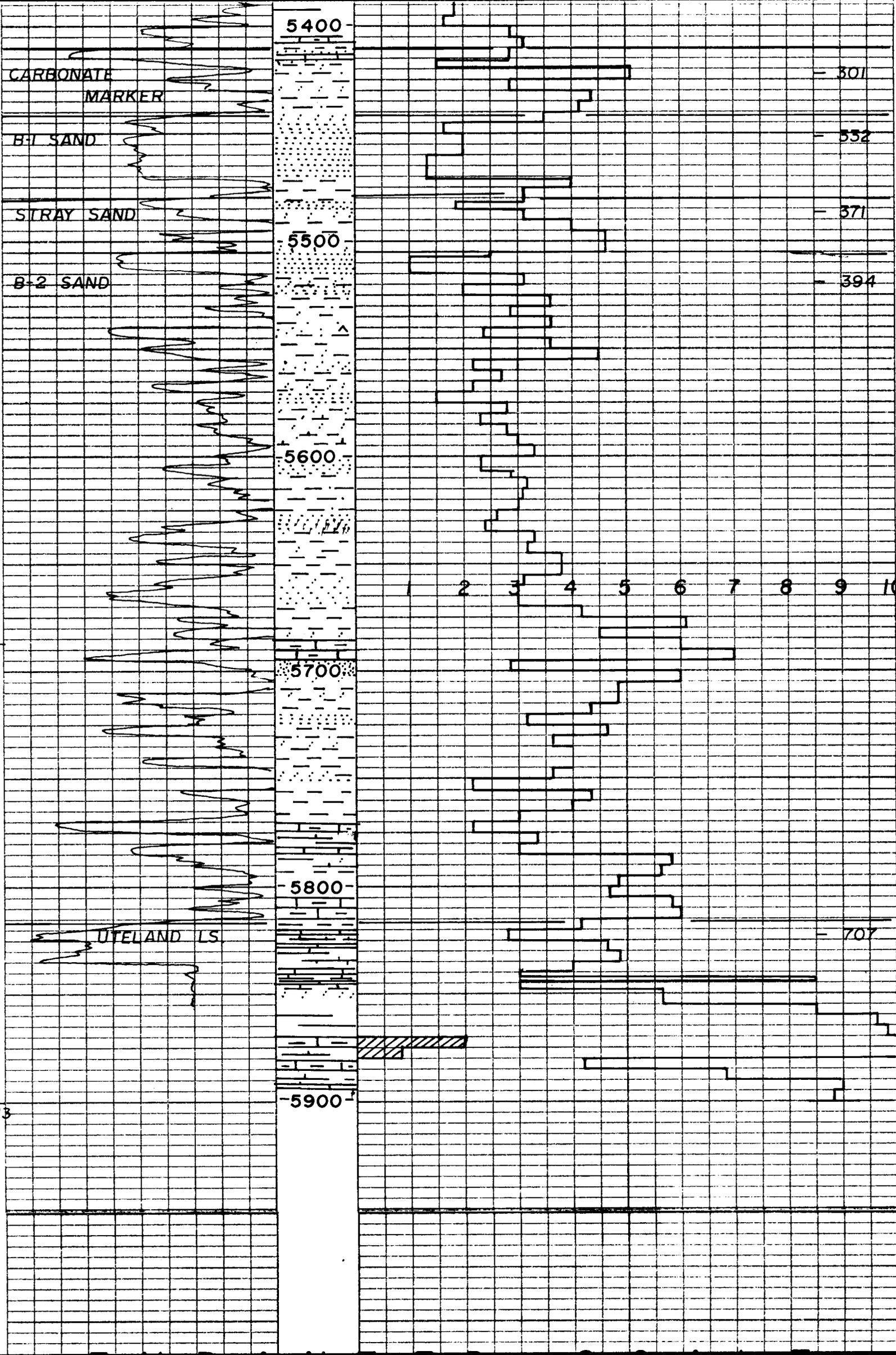
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BUFFALO, NEW YORK

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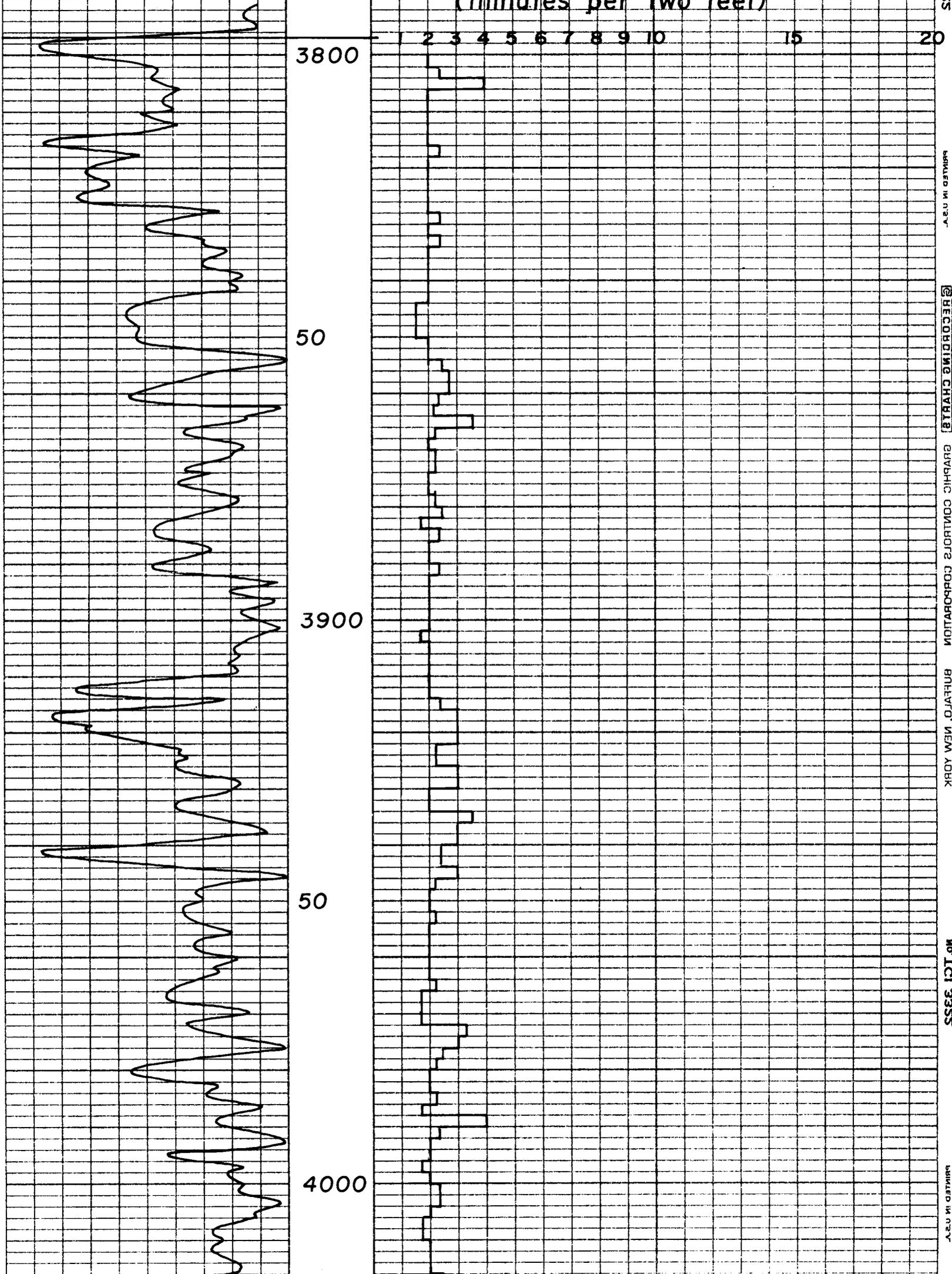


11

12,13

# EXPANDED SCALE

PENETRATION RATE  
(minutes per two feet)



No. LC1 3355

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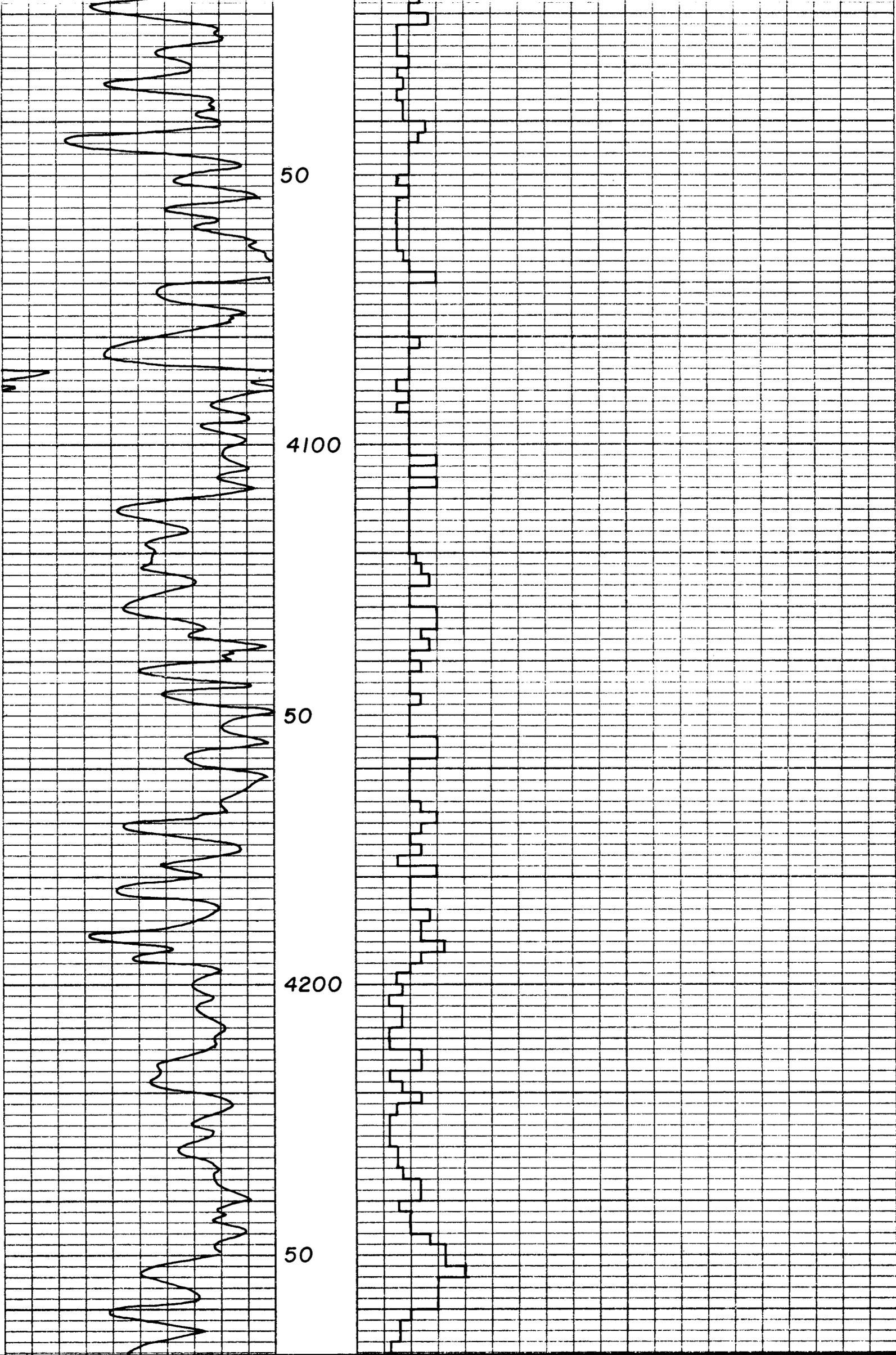
RECORDING CHARTS

GRAPHIC CONTROLS CORPORATION

BUFFALO, NEW YORK

No. LC1 3355

PRINTED IN U.S.A.



BIT 3  
\*  
F45A

YELLOW MARKER

+ 700

4300

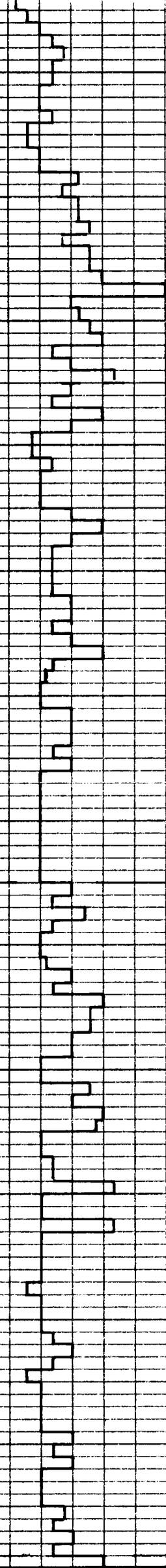
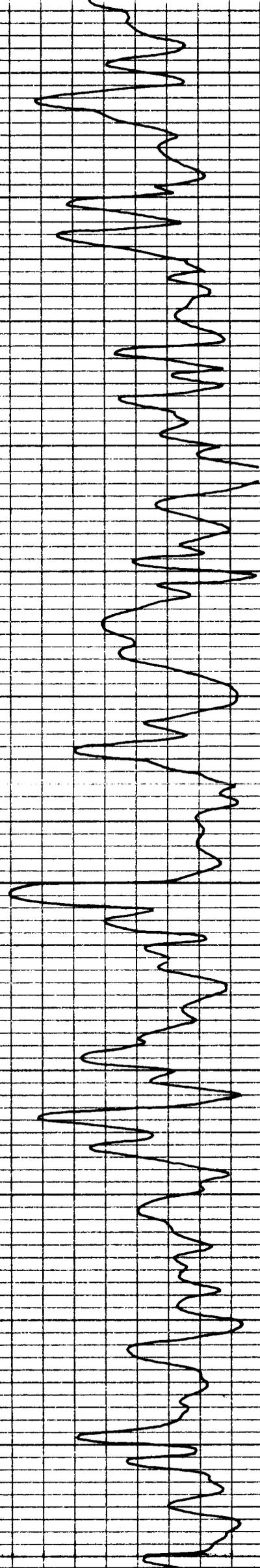
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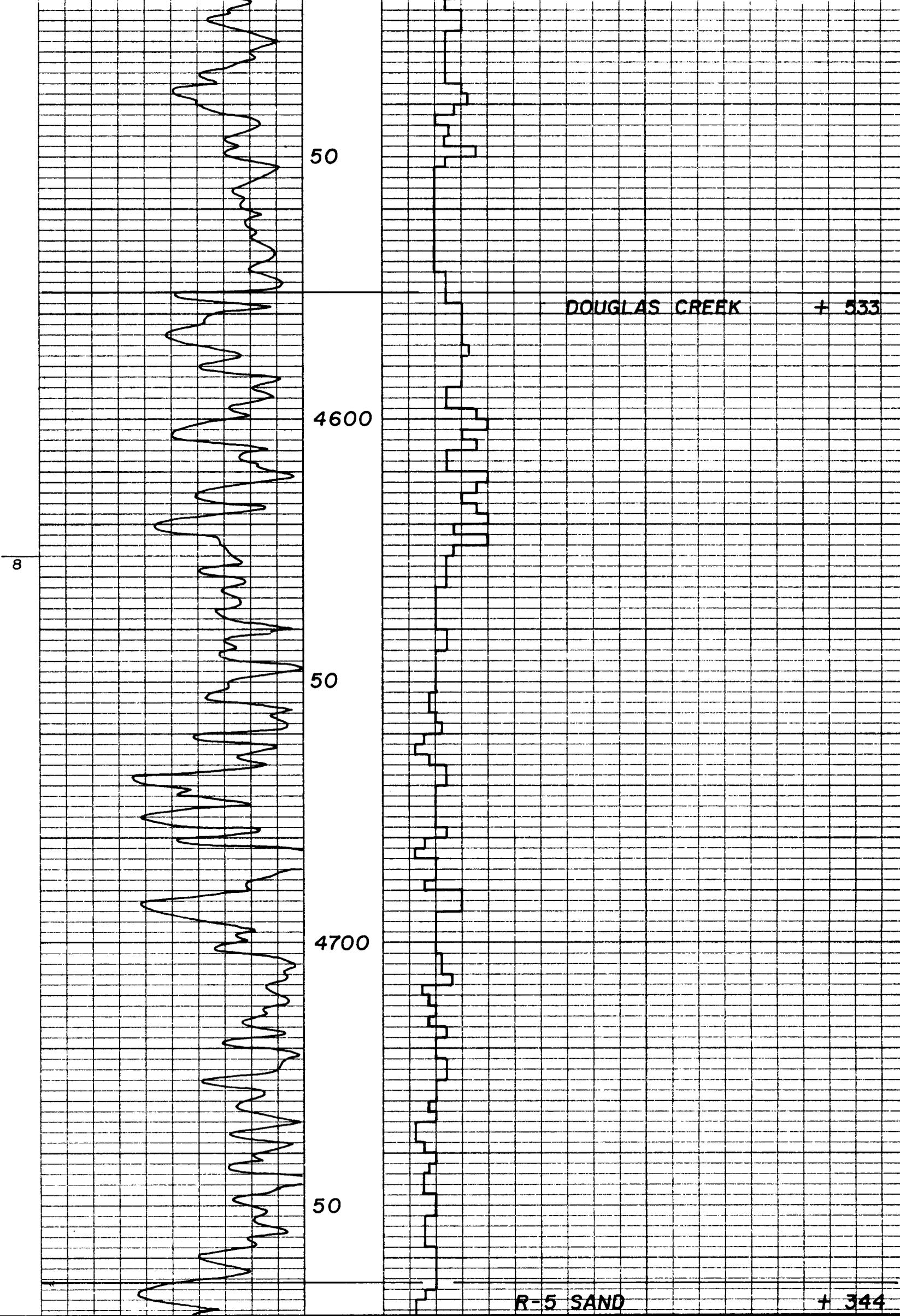
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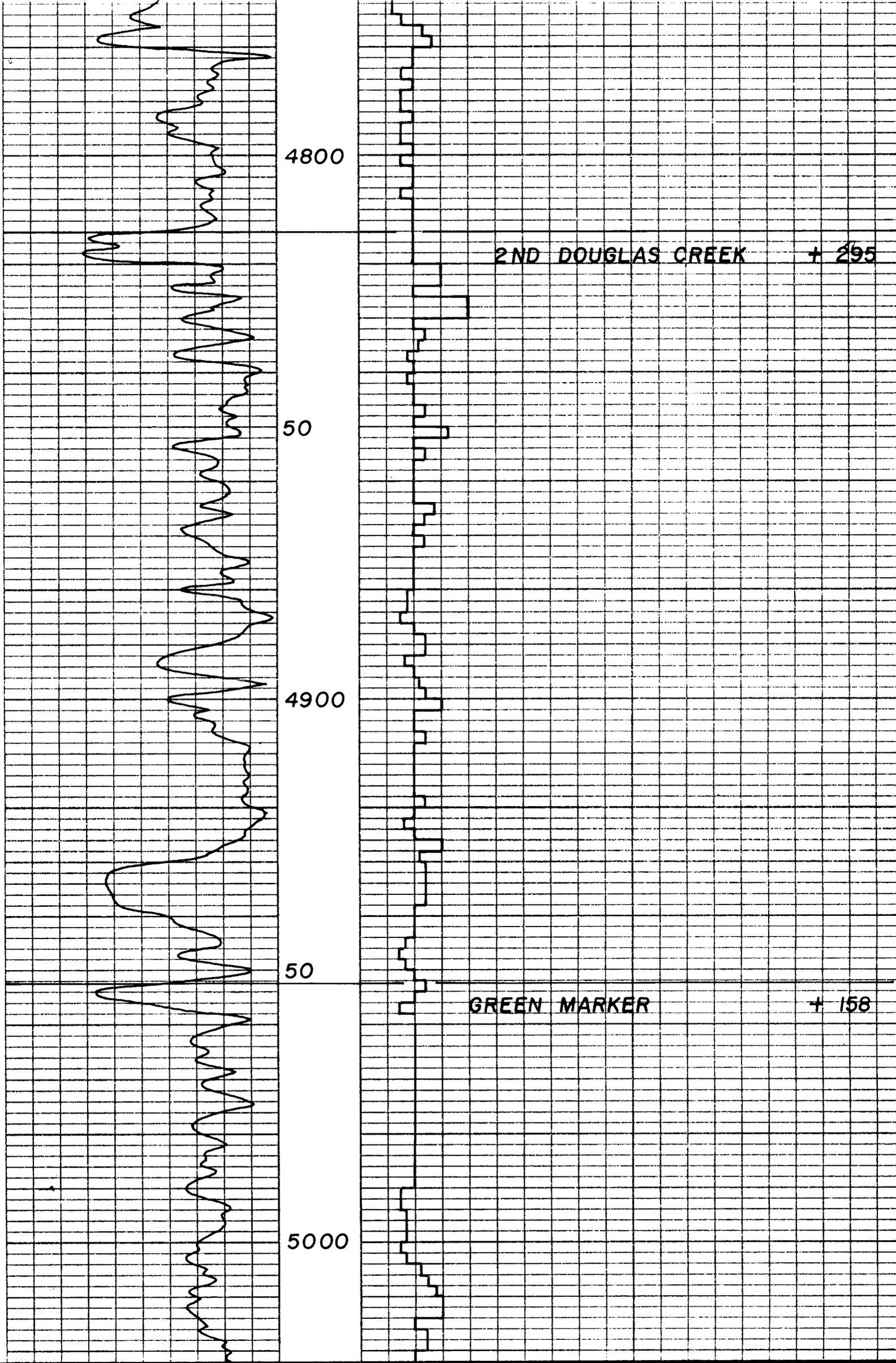
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4500

7







4800

2ND DOUGLAS CREEK + 295

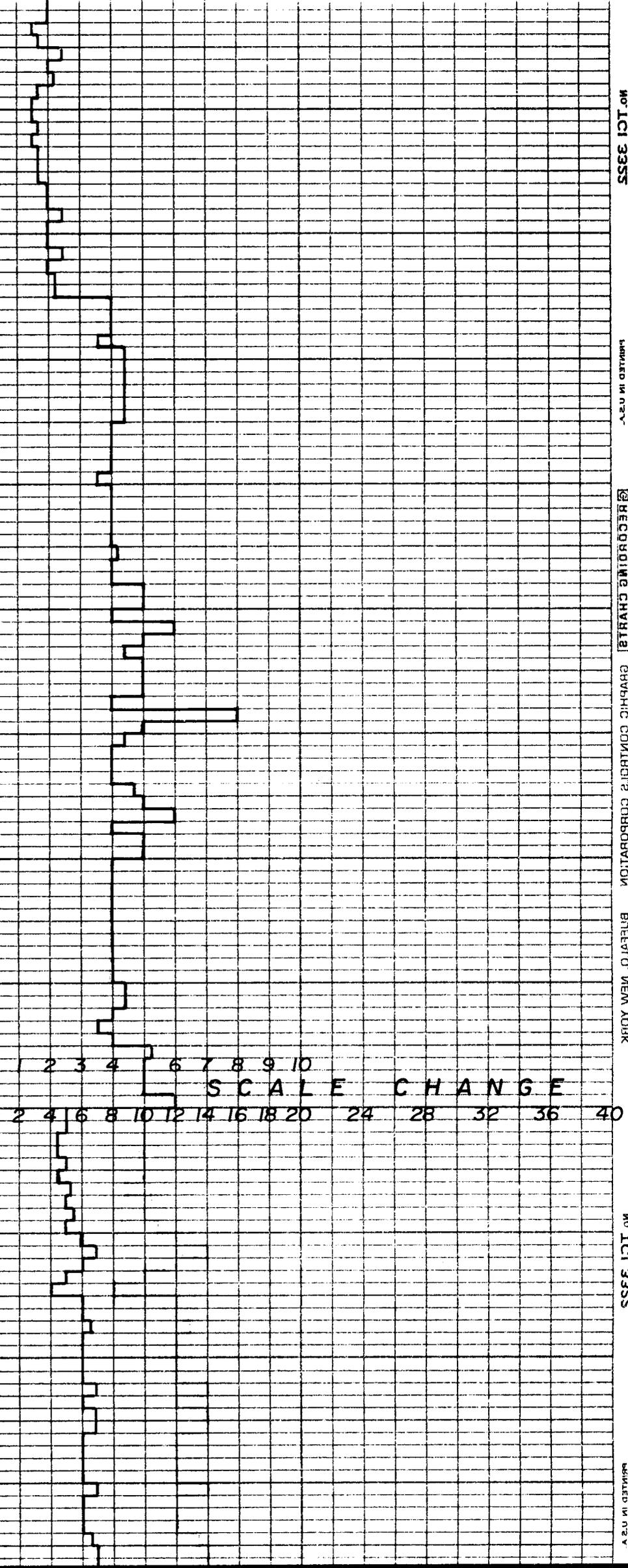
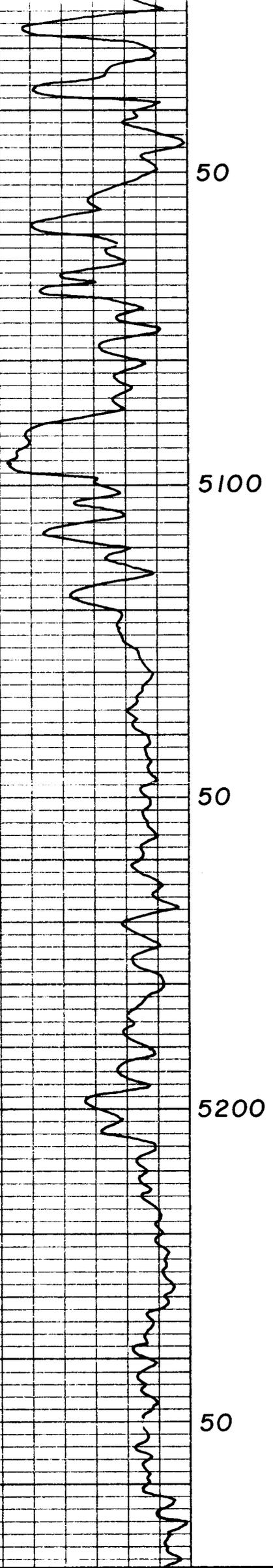
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4900

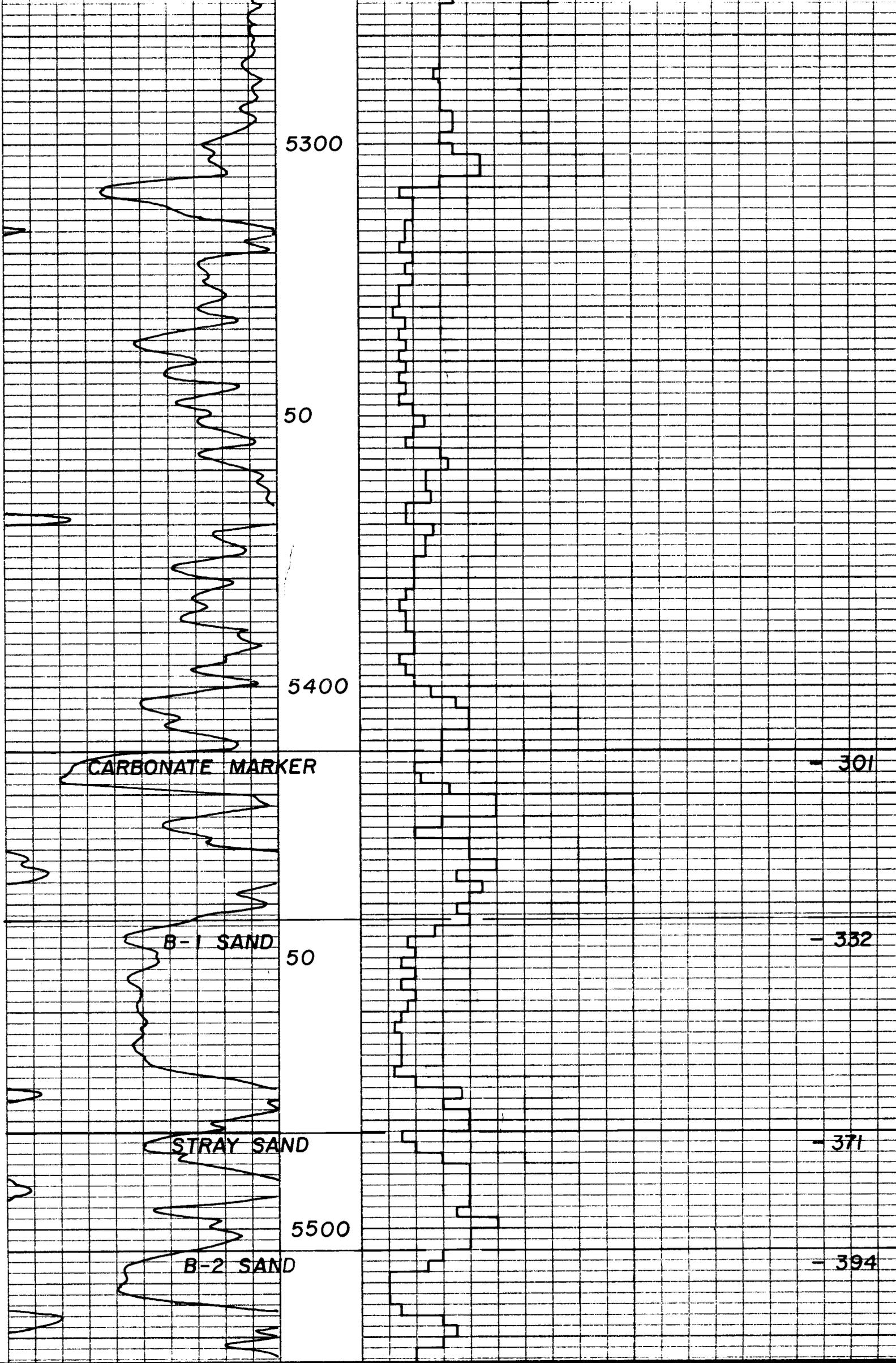
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GREEN MARKER + 158

5000



1 2 3 4 6 7 8 9 10  
 SCALE CHANGE  
 2 4 6 8 10 12 14 16 18 20 24 28 32 36 40



5300

50

5400

CARBONATE MARKER

- 301

B-1 SAND

50

- 332

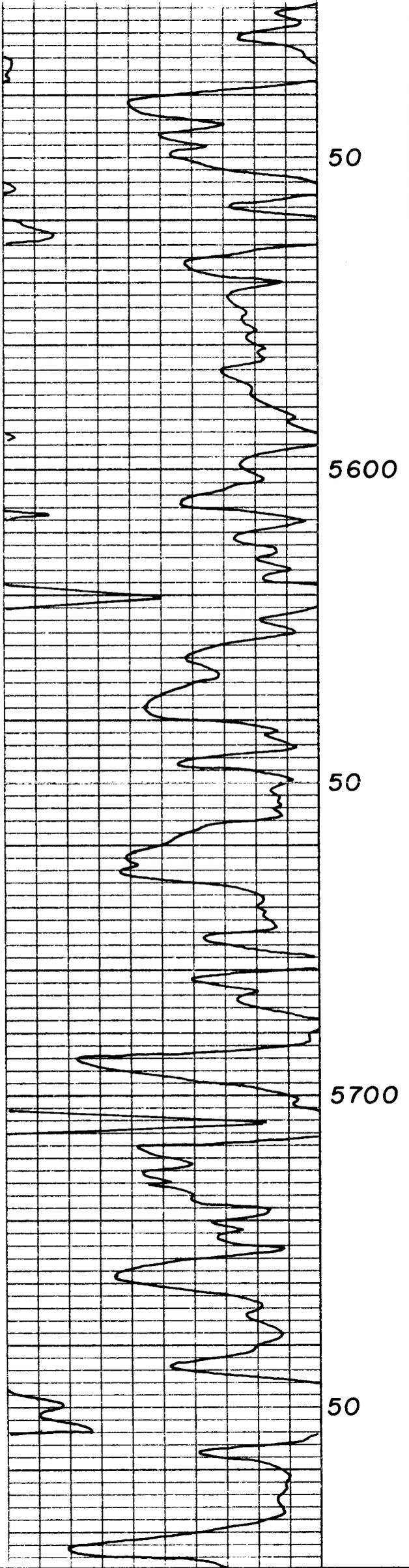
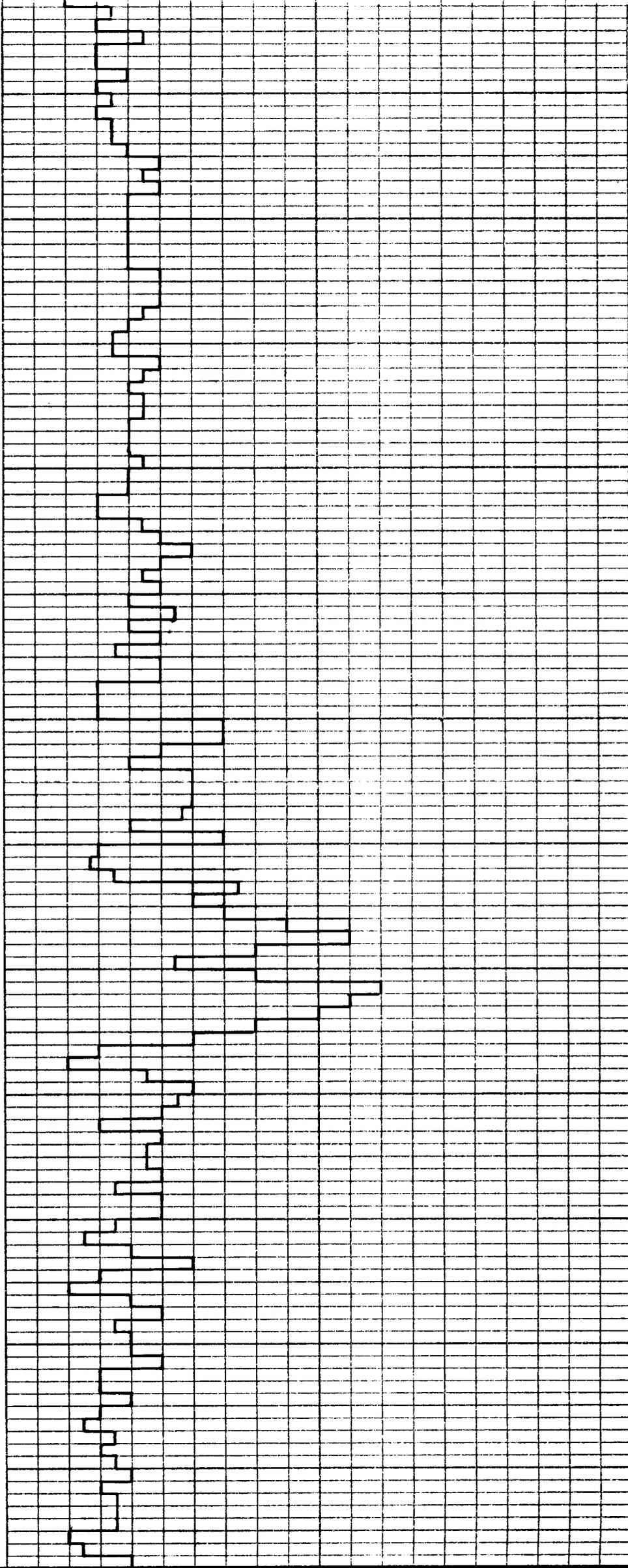
STRAY SAND

- 371

5500

B-2 SAND

- 394



50

5600

50

5700

50

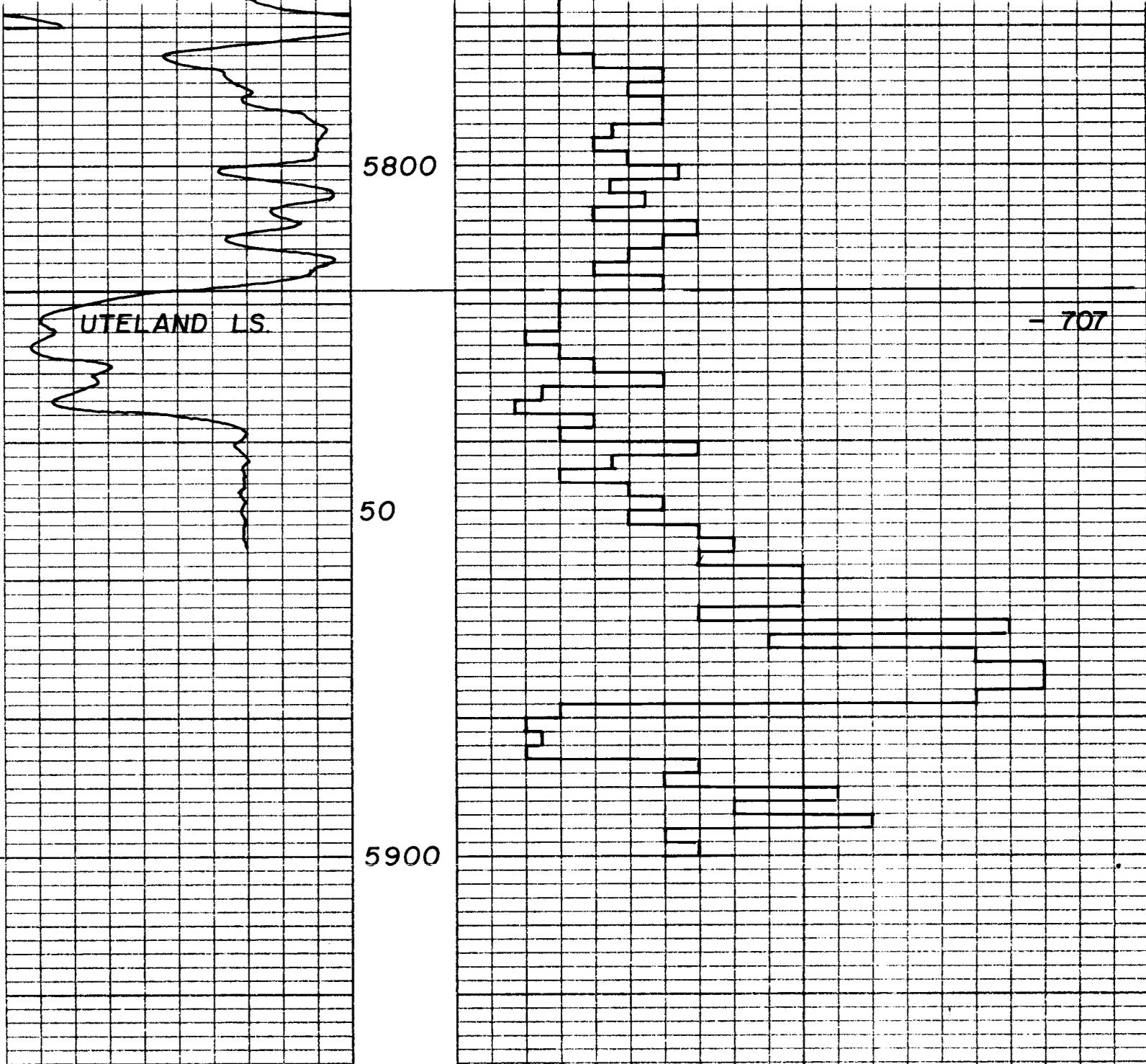
- 707

5800

UTELAND LS.

50

5900



**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

- 8-10-93 Continue to reclaim reserve pit. Start pad for beam pump. Start equipment hook up. Complete reserve pit reclamation.  
DC: \$3,069 CC: \$266,653
- 8-11-93 Continue production equipment move & hook up. Set tank & beam pump.  
DC: \$7,494 CC: \$274,147
- 8-12-93 Present Operation: Continue surface equipment hookup.  
DC: \$4,919 CC: \$279,066

Post-It™ brand fax transmittal memo 7871		# of pages >	
STATE OF UTAH		From: JENNIE RAPEMD	
DIV. OIL, GAS &		Co: BALCRON OIL	
Dept. MINING		Phone # 406-259-7860	
Fax # 801-359-3940		Fax # 406-245-1361	

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

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DC: \$7,494 CC: \$274,147
- 8-12-93 Present Operation: Continue surface equipment hookup.  
DC: \$4,919 CC: \$279,066
- 8-13-93 Present Operation: Continue surface equipment hook-up.  
DC: \$2,536 CC: \$281,602
- 8-14-93 Present Operation: Well on production @ 10:30 AM, 8/14/93.  
Continue hook-up, insulate piping. Start up at 4.0 strokes per minute, stroke length 66. Insulate flow lines & repair insulation on tanks. Hook up drain.  
DC: \$2,869 CC: \$284,471

Post-It™ brand fax transmittal memo 7671		# of pages ▶	
STATE OF UTAH	From	JENNIE RASTAD	
DIV. OIL, GAS &	Co	BALCRON OIL	
Dept.	Phone	406-259-7860	
Fax	Fax	406-245-1361	
1-801-359-3940			

BALCRON OIL

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

- 8-10-93 Continue to reclaim reserve pit. Start pad for beam pump. Start equipment hook up. Complete reserve pit reclamation.  
 DC: \$3,069 CC: \$266,653
- 8-11-93 Continue production equipment move & hook up. Set tank & beam pump.  
 DC: \$7,494 CC: \$274,147
- 8-12-93 Present Operation: Continue surface equipment hookup.  
 DC: \$4,919 CC: \$279,066
- 8-13-93 Present Operation: Continue surface equipment hook-up.  
 DC: \$2,536 CC: \$281,602
- 8-14-93 Present Operation: Well on production @ 10:30 AM, 8/14/93.  
 Continue hook-up, insulate piping. Start up at 4.0 strokes per minute, stroke length 66. Insulate flow lines & repair insulation on tanks. Hook up drain.  
 DC: \$2,869 CC: \$284,471
- 8-16-93 Present Operation: Pumping.  
 Complete dikes, point markers, reset location signs.  
 8/15/93 Produced 48 BBLs water.  
 8/16/93 Produced 54 BBLs water, trace of oil.  
 Load to recover: 412 BBLs water.  
 DC: Nil CC: \$284,471

Post-It™ brand fax transmittal memo 7671 # of pages ▶

TO: STATE OF UTAH	FROM: JENNIE RASTAD
DIV. OIL, GAS &	Co: BALCRON OIL
Dept. MINING	Phone: 406-259-7860
Fax: 1-801-359-3940	Fax: 406-245-1361

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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**

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

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>proposed facility diagram</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water
	<small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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 proposed facility diagram for this well.

RECEIVED

AUG 18 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed

Bobbie Schuman

Title

Coordinator of Environmental  
and Regulatory Affairs

Date August 16, 1993

(This space for Federal or State Office use)

Approved by

Conditions of approval, if any:

Title

Date

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

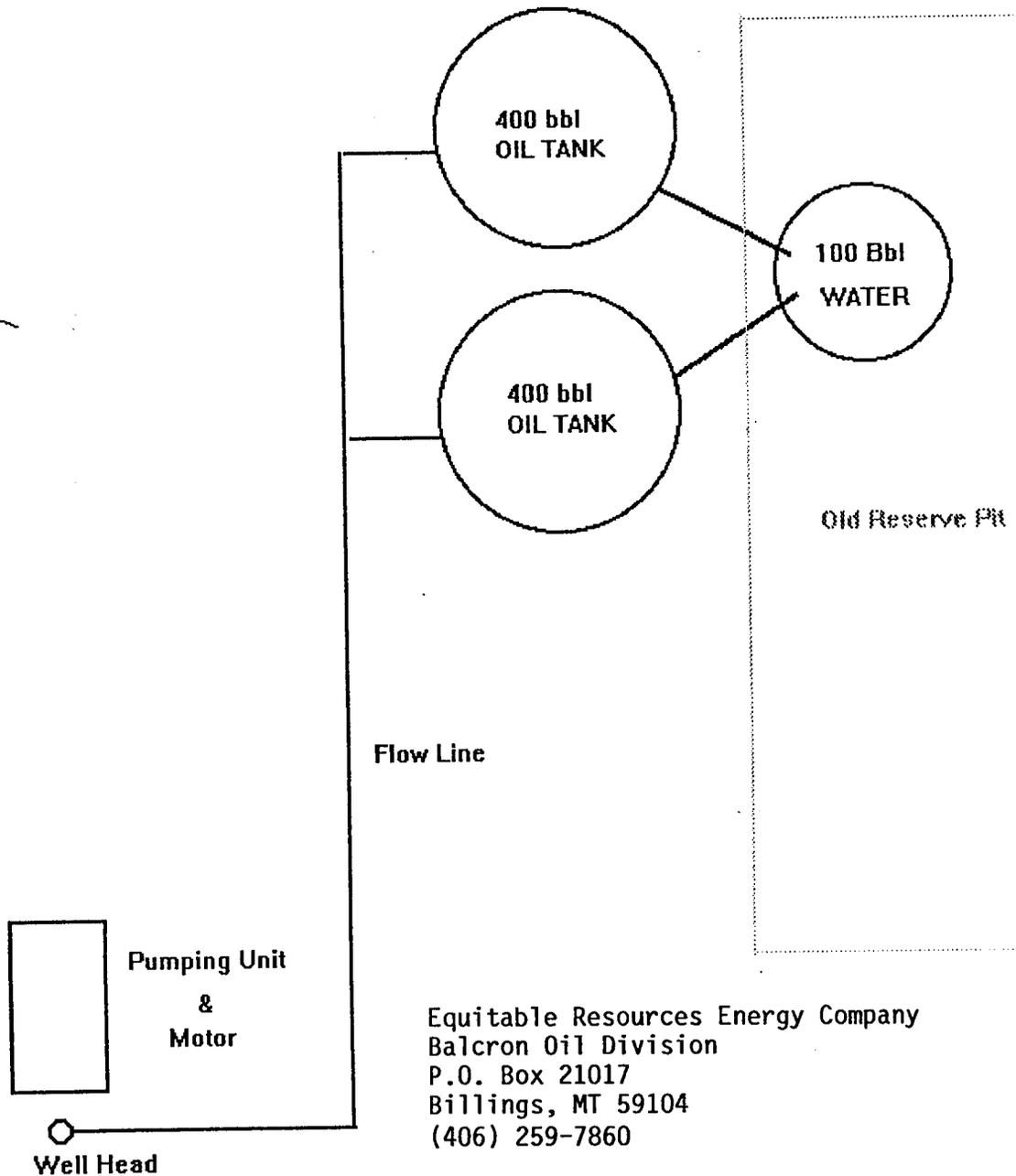
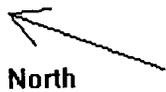
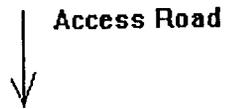
\*See Instruction on Reverse Side

Equitable Resources Energy Company

Balcron Federal #24-3Y

Proposed Production Facility Diagram

Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah  
Federal Lease #U-64381  
561.8' FSL, 1887.2' FWL



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



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 [X]

August 16, 1993

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

Gentlemen:

RE: Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah

Enclosed is our report of first production of the referenced well. Also enclosed is our proposed production facility diagram.

Sincerely,

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

RECEIVED

AUG 18 1993

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input 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>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.)\*

This well went on pump August 14, 1993, for first production.

**RECEIVED**

AUG 18 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed Bobbie Schuman

Coordinator of Environmental  
and Regulatory Affairs

Date August 16, 1993

(This space for Federal or State Office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

## BALCRON OIL

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

- 8-10-93 Continue to reclaim reserve pit. Start pad for beam pump. Start equipment hook up. Complete reserve pit reclamation.  
DC: \$3,069 CC: \$266,653
- 8-11-93 Continue production equipment move & hook up. Set tank & beam pump.  
DC: \$7,494 CC: \$274,147
- 8-12-93 Present Operation: Continue surface equipment hookup.  
DC: \$4,919 CC: \$279,066
- 8-13-93 Present Operation: Continue surface equipment hook-up.  
DC: \$2,536 CC: \$281,602
- 8-14-93 Present Operation: Well on production @ 10:30 AM, 8/14/93.  
Continue hook-up, insulate piping. Start up at 4.0 strokes per minute, stroke length 66. Insulate flow lines & repair insulation on tanks. Hook up drain.  
DC: \$2,869 CC: \$284,471
- 8-15-93: 53 STB fluid/water.
- 8-16-93 Present Operation: Pumping.  
Complete dikes, point markers, reset location signs.  
8/15/93 Produced 48 BBLs water.  
8/16/93 Produced 54 BBLs water, trace of oil.  
Load to recover: 412 BBLs water.  
DC: Nil CC: \$284,471
- 8-16-93: Add to previous report: 57 STB fluid w/approx 5% oil cut @ the wellhead.
- 8-17-93: 20 STBO & 35 STBW.
- 8-18-93: 25 STBO & 12 STBW, found well down, went down during the night due to lack of csg gas.
- 8-19-93: 40 STBO & 25 STBW. Pump is at capacity, proposed to speed up pumping unit if total fluid remains constant. Well is also still returning water from frac load.

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E**  
**Duchesne County, Utah**

**---TIGHT HOLE---**

- 8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.
- 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.
- 8-22-93 43 STBO & Zero water. Hot oiled well hot oiled.
- 8-23-93 60 STBO & Zero water.

Post-It™ brand fax transmittal memo 7671		# of pages >
STATE OF UTAH	From	JENNIE RABSTAD
DIV. OIL, GAS	Co	BALCRON OIL
Dept. MINING	Phone	406-259-7860
Fax 1-801-359-3940	Fax	406-245-1361

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3X**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

- 8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.
- 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.
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- 8-23-93 60 STBO & Zero water.
- 8-24-93 35 STBO & 20 STBW.

Post-It<sup>®</sup> brand fax transmittal memo 7671 # of pages >

STATE OF UTAH	From: JENNIE RABEND
DIV. OIL, GAS & MINING	Co: BALCRON OIL
Dept.	Phone: 406-259-7860
Fax: 1-801-359-3940	Fax: 406-245-1361

**BALCRON OIL****DAILY OPERATING REPORT****BALCRON FEDERAL #24-3Y**

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

**---TIGHT HOLE---**

8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.  
8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.  
8-22-93 43 STBO & Zero water. Hot oiled well hot oiled.  
8-23-93 60 STBO & Zero water.  
8-24-93 35 STBO & 20 STBW.  
8-25-93 30 STBO & 30 STBW. Hot oiled well w/60 STB 2% KCl.

BALCRON OIL  
DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

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- 8-23-93 60 STBO & Zero water.
- 8-24-93 35 STBO & 20 STBW.
- 8-25-93 30 STBO & 30 STBW. Hot oiled well w/60 STB 2% KCl.
- 8-26-93 28 STBO & 12 STBW.

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

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- 8-29-93 -0- STBO & 33 STBW, pumped 14 hrs.
- 8-30-93 20 STBO & 26 STBW, pumped 24 hrs.
- 8-31-93 28 STBO & 12 STBW, pumped 24 hrs.

Post-It™ brand fax transmittal memo 7671		# of pages >
STATE OF UTAH		From: JENNIE RAFFERTY
DIV. OIL, GAS		Co: BALCRON OIL
Dept. MINING		Phone: 406-259-7860
Fax: 1-801-359-3940		Fax: 406-245-1361

**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**  
Location: SE SW Section 3, T9S, R16E <sup>17</sup>  
Duchesne County, Utah

---TIGHT HOLE---

- 8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.
- 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.
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- 8-23-93 60 STBO & Zero water.
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- 8-28-93 MIRU. Lowered pump. 30 STBO & 10 STBW.
- 8-29-93 -0- STBO & 33 STBW, pumped 14 hrs.
- 8-30-93 20 STBO & 26 STBW, pumped 24 hrs.
- 8-31-93 28 STBO & 12 STBW, pumped 24 hrs.
- 9-1-93 65 STBO & 9 STBW, pumped 24 hrs. 22 PSIG on csg gas.

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STATE OF UTAH	From	JENNIE RABEND
DIV. OIL, GAS	Co.	BALCRON OIL
Dept. MINING	Phone	406-259-7860
Fax 1-801-359-3940	Fax	406-245-1361

**BALCRON OIL**

**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.  
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 8-31-93 28 STBO & 12 STBW, pumped 24 hrs.  
 9-1-93 65 STBO & 9 STBW, pumped 24 hrs. 22 PSIG on cog gas.  
 9-2-93 37 STBO & 32 STBW, pumped 24 hrs.

Post-It™ brand fax transmittal memo 7671		# of pages >
STATE OF UTAH	From	JENNIE RASTAD
DIV. OIL, GAS	Co.	BALCRON OIL
Dept. MINING	Phone #	406-259-7860
Fax # 1-801-359-3940	Fax #	406-245-1361

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

Operator: EQUITABLE RESOURCES ENERGY CO Lease: State: \_\_\_\_\_ Federal: Y  
Indian: \_\_\_\_\_ Fee: \_\_\_\_\_

Well Name: BALCRON FED #24-3Y API Number: 43-013-31397  
Section: 3 Township: 9S Range: 17E County: DUCHESNE Field:  
MONUMENT BUTTES  
Well Status: POW Well Type: Oil: Y Gas: \_\_\_\_\_

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY: \_\_\_\_\_

Y Well head \_\_\_\_\_ Boiler(s) \_\_\_\_\_ Compressor \_\_\_\_\_ Separator(s)  
\_\_\_\_\_ Dehydrator(s) \_\_\_\_\_ Shed(s) \_\_\_\_\_ Line Heater(s) \_\_\_\_\_ Heated  
Separator  
\_\_\_\_\_ VRU \_\_\_\_\_ Heater Treater(s)

PUMPS:  
\_\_\_\_\_ Triplex \_\_\_\_\_ Chemical \_\_\_\_\_ Centrifugal

LIFT METHOD:  
Y Pumpjack \_\_\_\_\_ Hydraulic \_\_\_\_\_ Submersible \_\_\_\_\_ Flowing

**GAS EQUIPMENT:**

N Gas Meters \_\_\_\_\_ Purchase Meter N Sales Meter

TANKS:	NUMBER	SIZE
	<u>Y</u> Oil Storage Tank(s)	<u>2-400 PRODUCTION</u> _____ BBLs
	_____ Water Tank(s)	_____ BBLs
	<u>Y</u> Power Water Tank	<u>1-80 PIT TANK</u> _____ BBLs
	_____ Condensate Tank(s)	_____ BBLs
	<u>Y</u> Propane Tank	_____ BBLs

REMARKS: 2-400 BARREL PROD TANKS W/BURNERS; PUMP JACK WITH GAS MOTOR;  
FLOWLINE HEATED BY CIRCULATING GLYCOL THROUGH EXHAUST ON MOTOR.

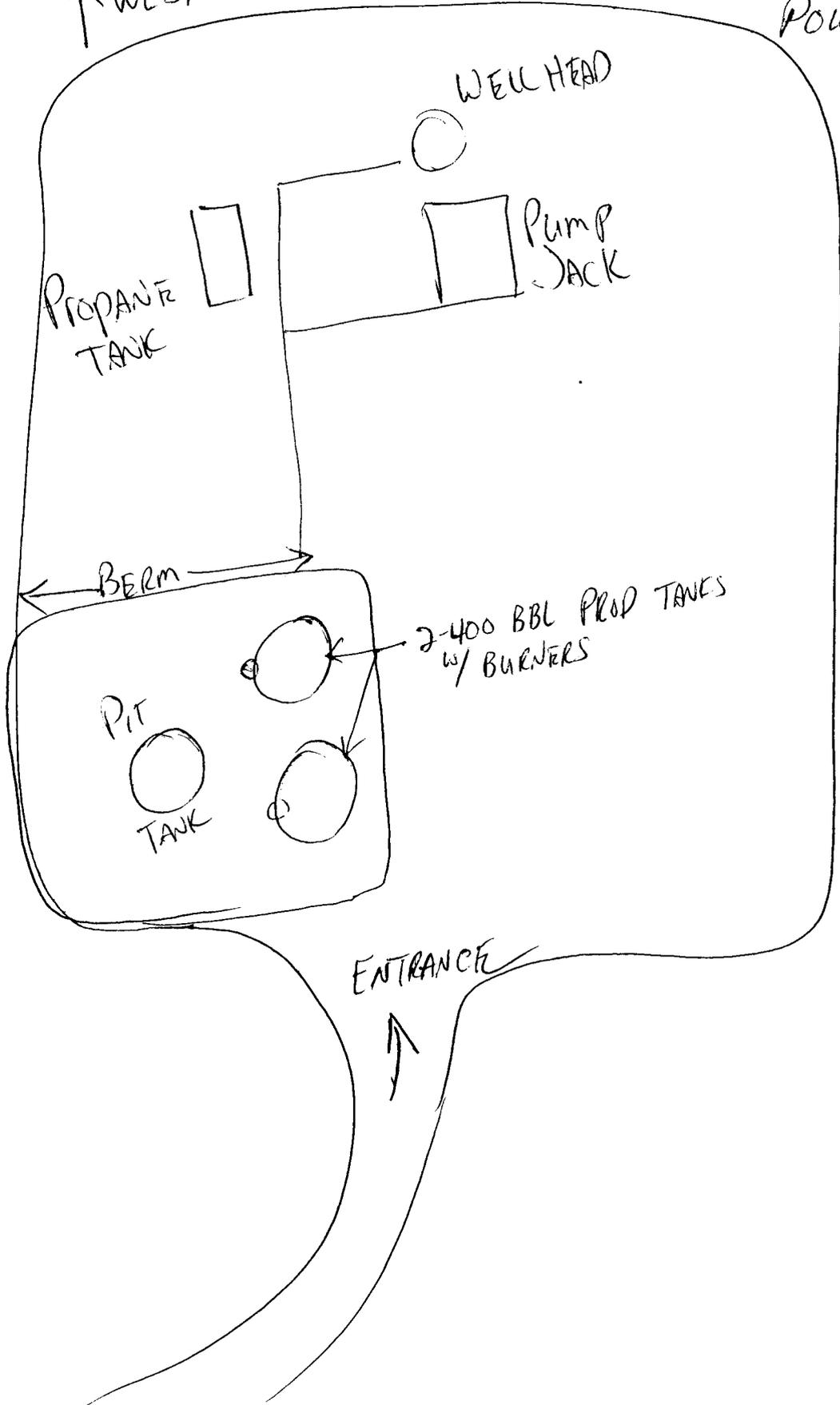
Location central battery: Qtr/Qtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_  
Range: \_\_\_\_\_

Inspector: DENNIS INGRAM Date: 9/3/93

EQUITABLE RESOURCES  
BALCROW FED # 24-34  
43-013-31397  
SEC 3 T9S R17E

↑ WEST

POW



**BALCRON OIL**  
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #24-3Y**

**Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.  
 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.  
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 8-28-93 MIRU. Lowered pump. 30 STBO & 10 STBW.  
 8-29-93 -0- STBO & 33 STBW, pumped 14 hrs.  
 8-30-93 20 STBO & 26 STBW, pumped 24 hrs.  
 8-31-93 28 STBO & 12 STBW, pumped 24 hrs.  
 9-1-93 65 STBO & 9 STBW, pumped 24 hrs. 22 PSIG on csg gas.  
 9-2-93 37 STBO & 32 STBW, pumped 24 hrs.  
 9-3-93 51 STBO & -0- STBW, pumped 24 hrs. Now running on csg gas.

Post-It™ brand fax transmittal memo 7671 # of pages >

STATE OF UTAH	From	JENNIE RASTAD
DIV. OIL, GAS	Co	BALCRON OIL
Dept. MINING	Phone	406.259.7860
Fax 1.801.359.3940	Fax	406.245.1361

DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

43-013-31397

Location: SE SW Section 3, T9S, R16E

Duchesne County, Utah

17E.

---TIGHT HOLE---

- 8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.
- 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.
- 8-22-93 43 STBO & Zero water. Hot oiled well hot oiled.
- 8-23-93 60 STBO & Zero water.
- 8-24-93 35 STBO & 20 STBW.
- 8-25-93 30 STBO & 30 STBW. Hot oiled well w/60 STB 2% KCl.
- 8-26-93 28 STBO & 12 STBW.
- 8-28-93 MIRU. Lowered pump. 30 STBO & 10 STBW.
- 8-29-93 -0- STBO & 33 STBW, pumped 14 hrs.
- 8-30-93 20 STBO & 26 STBW, pumped 24 hrs.
- 8-31-93 28 STBO & 12 STBW, pumped 24 hrs.
- 9-1-93 65 STBO & 9 STBW, pumped 24 hrs. 22 PSIG on csg gas.
- 9-2-93 37 STBO & 32 STBW, pumped 24 hrs.
- 9-3-93 51 STBO & -0- STBW, pumped 24 hrs. Now running on csg gas.
- 9-4-93 63 STBO & 0 STBW.
- 9-5-93 20 STBO & 0 STBW.
- 9-6-93 47 STBO & 2 STBW.

Post-It™ brand fax transmittal memo 7671 # of pages >

STATE OF UTAH	From: JENNIE RAFTOD
DIV. OIL, GAS	Company: BALCRON OIL
Dept. MINING	Phone: 406-259-7860
Fax: 1-801-359-3940	Fax: 406-245-1361



**EQUITABLE RESOURCES**  
ENERGY COMPANY

**BALCRON OIL DIVISION**

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

Office: (406) 259-7860

FAX: (406) 245-1365

FAX: (406) 245-1361

September 9, 1993

*URGENT*

SEP 13 1993

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

DIVISION OF  
OIL, GAS & MINING

Gentlemen:

RE: Balcron Federal #24-3Y  
SE SW Section 3, T9S, R17E  
Duchesne County, Utah

Enclosed are the following items for the referenced well:

Well Completion Report  
Site Security Diagram (Sundry Notice)  
NTL2B Disposition of Produced Water (Sundry Notice)

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining: Also enclosed is the  
Report of Water Encountered (Utah Form 7)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

5. LEASE DESIGNATION AND SERIAL NO.

U-64381

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

n/a

7. UNIT AGREEMENT NAME

n/a

8. FARM OR LEASE NAME

Balcron Federal

9. WELL NO.

#24-3Y

10. FIELD AND POOL, OR WILDCAT

Monument Butte/Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

Sec. 3, T9S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

UTAH

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

**CONFIDENTIAL**

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR

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

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

At surface SE SW Sec. 3, T9S, R17E 561.8' FSL, 1887.2' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-013-31397

DATE ISSUED

6/21/93

12. COUNTY OR PARISH

Duchesne

13. STATE

UTAH

15. DATE SPUDDED

7/10/93

16. DATE T.D. REACHED

7/22/93

17. DATE COMPL. (Ready to prod.)

8/14/93

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\*

5,009.1' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5,900'

21. PLUG, BACK T.D., MD & TVD

5,837'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

sfc.-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

4,767'-5,097'

5,442'-5,512'

Green River

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/SFL

LDT

CNL

7-26-93

MUD LOG

PERMEABILITY RATE

27. WAS WELL CORED

no

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	259'	12-1/4"	150 sx prem; 270 sx CCL w/additives	
5-1/2"	15.5#	5,883'	7-7/8"	150 sx Hifill, 470 sx Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	PACKER CEMENT*	SCREEN (MD)
none				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5,579'	n/a

31. PERFORATION RECORD (Interval, size and number)

4,767'-75' 9 holes

5,092'-97; 6 holes

5,442'-5,468' 14 holes

5,506'-12' 4 holes

SEP 13 1993

DIVISION OF OIL, GAS & MINING

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4767'-5097'	19000# 16/30 sand w/285 bbls gelled water
5442'-5512'	29000# 20/40 & 15500# 16/30 w/448 bbls gelled water

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
8/14/93	Pumping 2-1/2" x 1-1/2" x 16' RHAC	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/1/93	24	n/a		60	15	0	n/a
FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
			60	15	0	34	

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

Used for fuel

TEST WITNESSED BY

Dale Griffin

35. LIST OF ATTACHMENTS

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

Coordinator of Environmental

SIGNED

Bobbie Schuman

TITLE

and Regulatory Affairs

DATE September 9, 1993

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

1. Type of Well

- Oil Well    Gas Well    Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

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

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

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

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

Attached is the Site Security Diagram for this well.

**CONFIDENTIAL**

SEP 11 1993  
DIVISION OF  
OIL, GAS & MINING

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

Signed Bobbie Schuman

Title Coordinator of Environmental and Regulatory Affairs

Date 9-9-93

(This space for Federal or State Office use)

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

Title \_\_\_\_\_

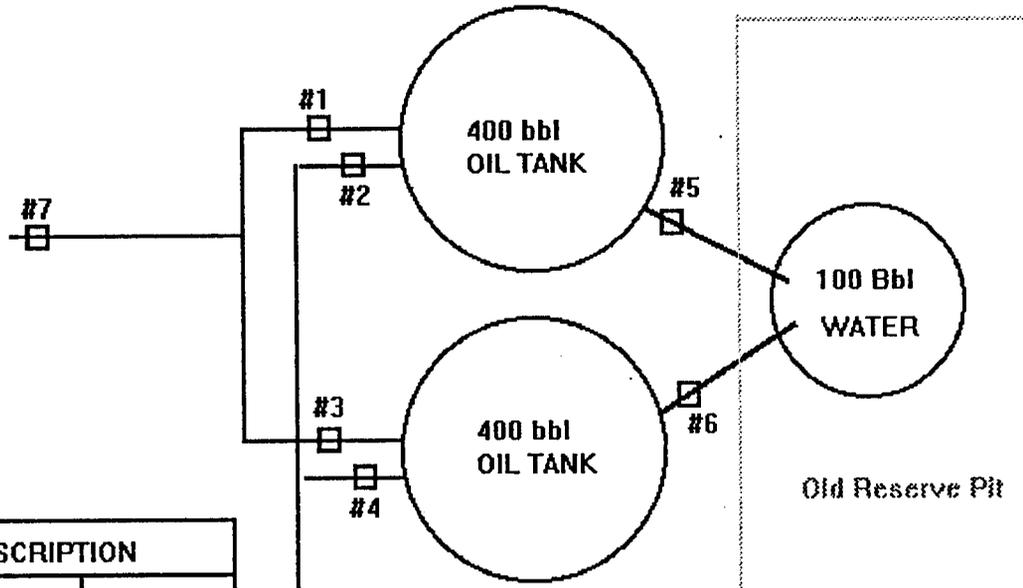
Date \_\_\_\_\_

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

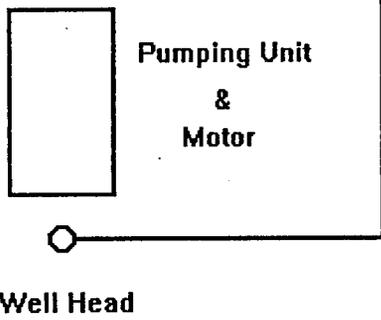
\*See Instruction on Reverse Side

**Equitable Resources Energy Company  
Balcron Federal #24-3Y  
Production Facility Diagram**

Balcron Federal #24-3Y  
SE SW Sec. 3, T9S, R17E  
Duchesne County, Utah  
Federal Lease #U-64381  
561.8' FSL, 1887.2' 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



**CONFIDENTIAL**

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

DIAGRAM NOT TO SCALE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

**CONFIDENTIAL**

5. Lease Designation and Serial No.  
U-64381

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

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

8. Well Name and No.  
Balcron Federal 24-3Y

9. API Well No.  
43-013-31397

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

11. County or Parish, State  
Duchesne County, UTAH

1. Type of Well  
 Oil Well     Gas Well     Other

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>NTL2B</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

This sundry notice is to be considered as our NTL2B (Disposition of Produced Water) for this well.

Any water produced by this well will be held in a produced water tank and then hauled to a commercial disposal facility. See Site Security Diagram for location of water tank.

**CONFIDENTIAL**  
SEP 13 1993

DIVISION OF  
OIL, GAS & MINING

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

Signed Lobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date September 9, 1993

(This space for Federal or State Office use)

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

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

RECEIVED  
SEP 13 1993

SEP 13 1993

1. Well name and number: Balcron Federal #24-3Y DIVISION OF  
 API number: 43-013-31397 OIL, GAS & MINING
2. Well location: QQ SE SW section 3 township 9S range 17E county Duchesne
3. Well operator: Equitable Resources Energy Company, Balcron Oil Division  
 Address: P.O. Box 21017 phone: (406) 259-7860  
Billings, MT 59104
4. Drilling contractor: Union Drilling (Rig #17)  
 Address: West Virginia phone: \_\_\_\_\_

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
No measurable water encountered during drilling operations.			

6. Formation tops: See Geologic Report submitted separately.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

Name Bobbie Schuman Signature Bobbie Schuman  
 Title Coordinator of Environmental and Regulatory Affairs Date September 9, 1993

Comments:



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

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

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

November 30, 1993

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

Gentlemen:

As requested, enclosed are sundry notices which are being resubmitted to comply with Onshore Order #7 which covers disposition of produced waters. These are being resubmitted for the following wells:

Balcron Monument Federal #32-11  
Balcron Monument Federal #22-5  
Balcron Monument Federal #13-5  
Balcron Federal #41-21Y  
Balcron Federal #21-13Y  
Balcron Federal #21-9Y  
Balcron Monument Federal #23-5  
Balcron Monument Federal #23-11  
Balcron Federal #22-10Y  
Balcron Federal #44-14Y  
Balcron Federal #24-3Y

These are to replace the sundry notices which were filed as NTL2B.

Also enclosed for your information is a copy of the State approval of the primary facility at which we dispose of our produced water.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 01 1993

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

DIVISION OF  
OIL, GAS & MINING

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SUBMIT IN TRIPLICATE

CONFIDENTIAL

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company (Balcron Oil Division)

3. Address and Telephone No.

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

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

SE SW Section 3, T9S, R17E  
561.8' FSL, 1887.2' FWL

5. Lease Designation and Serial No.

U-64381

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Federal 24-3Y

9. API Well No.

43-013-31397

10. Field and Pool, or Exploratory Area

Monument Butte/Green Rvr.

11. County or Parish, State

Duchesne County, UTAH

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

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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Onshore Order #7</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

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

Accepted by the State  
of Utah Division of  
Oil, Gas and Mining  
Date: 12-3-93

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

Signed

*Bobbie Schuman*

Title

Coordinator of Environmental  
and Regulatory Affairs

Date

November 30, 1993

(This space for Federal or State Office use)

Approved by

Federal Approval of this

Title

Date

Conditions of approval, if any:

None Necessary

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.

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

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U-64381

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n/a

SUBMIT IN TRIPLICATE

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n/a

8. Well Name and No.  
Balcron Federal #24-3Y

9. API Well No.  
43-013- 31397

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

11. County or Parish, State  
Duchesne County, UTAH

1. Type of Well  
 Oil Well  Gas Well  Other

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Equitable Resources Energy Company, Balcron Oil Division

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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>off-lease meter</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

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Operator requests approval for off-lease measurement of gas on this well. A map showing the location of the meter is attached.

The proposed gas meter was shown Federal Right-of-Way U-53105.

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

FILE  
1995  
DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date January 13, 1995  
(This space for Federal or State office use)

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



DAILY OPERATING REPORT

BALCRON FEDERAL #24-3Y

43-013-31397

Location: SE SW Section 3, T9S, R17E

Duchesne County, Utah

---TIGHT HOLE---

561.8' FSL, 1887.2' FWL

PTD: 5950' Formation: Green River

Green River Prospect/Monument Butte Field

Elevations: 5009.1' GL

Contractor: Union Drilling

Operator: Balcron/EREC

Spud: 7-10-93 @ 7 p.m.

Casing: 8-5/8" @ 259'

5-1/2" @ 5,883'

Tubing: 2-7/8" @ 5,579'

UNION DRILLING

7-9-93 Present Operation: Building location.  
Building location, will move in Union Drilling on Friday. Expect to spud Saturday.

7-11-93 TD: 278' (278') Day 1  
Formation: Rock, sand, shale  
Present Operation: WOC.  
Spud @ 7:00 PM, 7/10/93. Finish pit, riggin up, install pit liner. Drill rat hote + 20 for conductor pipe. Set conductor pipe & nipple up air head. Drill 12-1/4" hole to 278'. Trip out & nipple down air head & pull conductor pipe. Run 1 jt 8-5/8" pipe & cement w.d. 150 sx premium plus cement with 270 CCL & 1/4# per. sx. flocele. Plug down @ 5:30 AM 7-11-93.  
DC: \$12,092 CC: \$29,542

7-12-93 TD: 278' (0') Day 2  
Present Operation: Pressure Test BOP.  
Wait on cement, nipple up. Test BOP, manifold lines, casing & valves. Have everything tested except valve on manifold. Cement circulated 6 bbls back to pit. 1 hr after plug landed cement was 2' down from surface.  
DC: \$3,750 CC: \$33,292

7-13-93 TD: 485' (207') Day 3  
Formation: Uinta  
Present Operation: Drilling.  
Test BOP. Rig up blooie lines & manifold lines to pit. Drill plug & cement. Survey, drill collars down, change air head drill. Test BOP, manifold & lines, kelly cock safety & other valves to 2000 psi. Test casing to 1500 psi, all OK. BLM man, Jerry Barnes.  
DC: \$4,563 CC: \$37,855

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

7-14-93 TD: 1,511' (1,026') Day 4  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, get rig up to BLM specs. First water @ 1,017',  
about a 3/4" stream. Start injecting soap. 2-3 units background  
gas.  
DC: \$13,718 CC: \$51,573

7-15-93 TD: 2,540' (1,029') Day 5  
Formation: Green River  
Present Operation: Drilling  
Drill, survey, work on BLM specs.  
DC: \$18,070 CC: \$69,643

7-16-93 TD: 3,446' (906') Day 6  
MW 8.3 Vis 27 pH 7.6  
Formation: Green River  
Present Operation: Drilling.  
Drill, survey, clean & paint. Get automatic driller working.  
DC: \$13,109 CC: \$82,752

7-17-93 TD: 4,330' (884') Day 7  
MW 8.3 Vis 27 pH 7.6  
Present Operation: Prepare to trip out.  
Drill, survey, had tight connection @ 3,755', did not blow hole  
good. Put string float in. Bit started hopping; prep to trip out.  
DC: \$12,815 CC: \$95,567

7-18-93 TD: 4,626' (296') Day 8  
MW 8.3 Vis 27 pH 11  
Formation: Douglas Creek  
Present Operation: Service rig.  
Blow hole clean, trip out, pick up 5 more collars, trip in & blow  
water from 3,100' to bottom, back to drilling & survey.  
DC: \$5,707 CC: \$101,274

7-19-93 TD: 5,066' (440') Day 9  
MW: 8.4 Vis 27 pH 10  
Formation: Green River  
Present Operation: Trip in hole.  
Drill survey, start to switch over to fluid & something plugged up  
down hole. Trip out wet & float was plugged with sand. Start  
trip in hole. Tops: Douglas Creek 4,578', show 4,766'-76', 34  
units gas. Green marker 4,956'.  
DC: \$7,099 CC: \$108,373

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

7-20-93 TD: 5,376' (310') Day 10  
 MW 8.4 Vis 27 pH 9.6  
 Formation: Green River  
 Present Operation: Drilling.  
 Finish trip in hole & fill with fluid, circulate bottom up &  
 circulate hole good. First couple of connections were tight. Back  
 to drilling.  
 DC: \$5,373 CC: \$113,746

7-21-93 TD: 5,685' (309') Day 11  
 MW 8.4 Vis 27 pH 10.6  
 Formation: Green River  
 Present Operation: Drilling.  
 Drill, survey, repair engine on mud pump. Drilling @ 14.7' per hr.  
 DC: \$6,390 CC: \$120,136

7-22-93 TD: 5,900 (215') Day 12  
 MW 8.4 Vis 27 pH 11.4  
 Formation: Green River  
 Present Operation: Circulate for logs.  
 Drill, clean rig. Unload 1 load 5-1/2" casing, pump, sweep,  
 circulate for logs.  
 DC: \$6,151 CC: \$126,287

7-23-93 TD: 5,900' (0') Day 13  
 Present Operation: Pumping cement.  
 Circulate for logs. Trip out of hole. Rig up Schlumberger & log  
 well. Trip in hole with drill pipe. Circulate & come out of hole  
 laying down drill pipe. Lay down drill collars. Rig up casing  
 crews & run 135 jts 5-1/2" casing. Circulate hole, cementing.  
 DC: \$52,035 CC: \$178,322

7-24-93 TD: 5,900' (0') Day 14  
 Formation: Green River  
 Present Operation: Rig down to move.  
 Finish cementing with Halliburton. Set slips, cut casing off.  
 Nipple down & clean mud tank. Prepare to move. Cement with 150 sx  
 Hifill Standard & tail in with 470 sx 50/50 Posnix. Good returns.  
 Plug down @ 7:00 AM 7/23/93. Release rig @ 11:00 AM 7/23/93.  
 DC: \$12,370 CC: \$190,692

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

- 7-28-93 Present Operation: MIRU Cannon Well Service Rig #1.  
Move in rig pump & falt tank. Move in 500 BBL Frac Master. Fill Frac Master w/480 BBL of 2% KCL water.  
DC: \$1,743 CC: Not given
- 7-29-93 NU well head, NU BOP, TIH w/1 4-3/4" bit, 1 2-7/8" x 5-1/2" scrapper, & 187 jts 2-7/8 tbg. Tag PBD @ 5,836' KB. Circulate hole clean w/160 BBL of 2% KCL water. TOO H w/tbg, scrapper & bit. Test csg & BOP to 1000 psi. Test held 15 min. SDFN.  
DC: \$5,642 CC: Not given
- 7-30-93 Present Operation: Rig up HLS to log & perforate.  
Bod log. Perf 5,506'-12' KB 4 shots & 5,442'-68' 14 shots. TIH w/5-1/2 R-DBL grip pkr & 174 jts 2-7/8 EUE tbg. Set pkr @ 5,418" KB. End of tbg @ 5,450' KB. SWIFN.  
DC: \$5,765 CC: Not given
- 7-31-93 Present Operation: Shut Down.  
Shut down, can't get pump truck until 8/1/93.
- 8-1-93 Present Operation: Rig up to frac.  
RU Western for break down. 2% KCL water w/60 Balls. Csg 0 psi, Tbg 0 psi. Press test surface equip. Start break down .5 BOW to load. Break at 1600 psi; 2.8 BPM. Drop 1 ball per BBL. 1800 psi at 4.8 BPM 17 balls on perfs. Stop injection at 3500 psi, .8 BPM surge balls back. Press. Dropped to 800 psi. Pump for rate. 2300 psi, 6.3 BPM. Load used 98 BOW. ISIP 1000, 0939: 980 psi, 0944: 950 psi, 0949: 800 psi. Rig up swab. Tag fluid at surface. Made 14 swab runs, swab back 80 BBL. Trace of oil on last 7 runs. Rig down, swab, unset pkr & TOO H w/174 jts tbg, S.N., pkr & 1 jt of tbg. Shut well in for night.  
DC: \$4,003 CC: Not given

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

8-2-93 Present Operation: Fracing.

0600: Cas PSIG 20, RU Western to frac well w/2% KCL.

0858: Press test surface equipment to 4000 PSIG. OK.

1007: Start frac pump pad 110 BOW @ max psi 2120.

<u>Start Sand</u>	<u>BPM</u>	<u>PSI</u>
1006: 2# 20/40	34.1	2120
1007: 3# 20/40	34.	2100
1008: 4# 20/40	33.2	2120
1009: 5# 20/40	32.5	2050
1010: 6# 20/40	33.2	2000
1011: 6# 16/30	32.8	1920
1013: 7# 16/30	32.8	1850

1014: Flush 125 BOW @ max psi 2180 34.8 BPM

1018: ISIP. 1370 PSIG, 5 min 1210, 10 min 1130, 15 min 1090

1035: RD Western.

1200: SDFD.

448 BOW lad + 18 BOW load from breakdown = 466 BBL of load to recover.

DC: \$32,726

CC: Not given

8-3-93 Present Operation: TIH w/BP.

Csg 290 PSIG, TIH w/1 2-7/8" notched collar, 1 jt 2-7/8" tbg, 1 2-3/8 " x 5-1/2" R-3 Pkr, 1 2-7/8" SN, 173 jts 2-7/8" tbg. Tag fill @ 5,760', pull up & set Pkr. Bottom of tbg @ 5,419' KB. Pkr @ 5,387' KB. Swab 45 swab runs. Swab back 270 BOF. Last 3 runs were 60% oil & free of sand. Fluid level stayed @ 2,700'. Release Pkr, tag sand @ 5,755', circulate hole clean to PBTD (5,837' KB). TOOH w/tbg, SN, Pkr & notched collar. SWIFN.

Load water to be recovered - 466 BBL.

Load water used today - 125 BBL.

Load water recovered today - 200 BOW.

Total load to recover - 391 BOW.

---PLEASE SEE ATTACHED SWAB REPORTS---

DC: \$2,400

CC: Not given

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

- 8-4-93 Csg psi 0. TIH w/5-1/2" retrievable BP, retrieving tool & 170 jts 2-7/8" tbg. Set BP @ 5,292' KB. TOOH w/tbg & retrieving head. RU Schlumberger to perf 5,092'-97' & 4,767'-75' KB. TIH w/1 jt 2-7/8" tbg, 1 5-1/2" R-3 Pkr, 1 SN & 152 jts 2-7/8" tbg. End of tbg landed @ 4,764' KB, Pkr @ 4,733'. Rig up Western to do break down. Pressure test surface equip to 4000 PSIG, OK. Start break down, Pkr did not hold, TOOH w/tbg & Pkr, packing elements bad. TIH w/1 jt 2-7/8" tbg, 1 5-1/2 HD Pkr, 1 SN, & 152 jts 2-7/8" tbg. Set Pkr @ 4,733'. Bottom of tbg @ 4,764' KB. Pressure test Pkr to 4000 PSIG, OK. Start break down; pump 5 BOW, break @ 2200 psi, 4.5 BPM. Start balls, 1 per BBL, pumped 50 BOW to ball off 60 BBL load. Serge ball back; pump for rate 6.1 BPM @ 2600 PSIG, ISIP 1300 psi, 5 min 1000 psi, RD Western, swab 9 runs, swab back 51 BBL of fluid. POOH w/12 jts tbg. Total load to recover - 451 BOW.  
 DC: \$8,560 CC: \$251,531
- 8-6-93 Casing 470 PSIG & flow well back. TIH w/BP retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD Pkr, 1 SN, & 165 jts 2-7/8" tbg. Tag fill @ 5,165' KB, POOH to 4,768' KB w/bottom of tbg. Set Pkr @ 4,731' KB. Flow back 30 BOW. Swab 25 runs, flow & swab 180 BOW, last 2 runs 30% oil no sand. Release Pkr, TIH to fill, circulate csg. Clean w/2% KCL water, release BP, TOOH w/tbg, seat nipple, Pkr & BP. Mud anchor landed @ 4,766.96' KB.  
 DC: \$9,243 CC: \$260,774
- 8-7-93 Casing 5 PSIG, tbg 10 PSIG. ND BOP, NU well head. TIH w/1 BHP 2-1/2 x 1-1/2 x 16'. 6 1" x 25" rods. EL w/2-1/2" guides. 182 3/4" x 25' slick rods. 1 1-1/4" x 16' polish rod. Seat pump & press test tbg 1000 PSIG, 10 min - OK. RDMO.  
 DC: \$883 CC: \$261,657
- 8-9-93 Tear fence down. Suck pit out, haul in sand for tank & unit pad. Start backfill on pit. Start equipment move.  
 DC: \$1,927 CC: \$263,584

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
 Duchesne County, Utah

---TIGHT HOLE---

- 8-10-93 Continue to reclaim reserve pit. Start pad for beam pump. Start equipment hook up. Complete reserve pit reclamation.  
 DC: \$3,069 CC: \$266,653
- 8-11-93 Continue production equipment move & hook up. Set tank & beam pump.  
 DC: \$7,494 CC: \$274,147
- 8-12-93 Present Operation: Continue surface equipment hookup.  
 DC: \$4,919 CC: \$279,066
- 8-13-93 Present Operation: Continue surface equipment hook-up.  
 DC: \$2,536 CC: \$281,602
- 8-14-93 Present Operation: Well on production @ 10:30 AM, 8/14/93.  
 Continue hook-up, insulate piping. Start up at 4.0 strokes per minute, stroke length 66. Insulate flow lines & repair insulation on tanks. Hook up drain.  
 DC: \$2,869 CC: \$284,471
- 8-15-93: 53 STB fluid/water.
- 8-16-93 Present Operation: Pumping.  
 Complete dikes, point markers, reset location signs.  
 8/15/93 Produced 48 BBLS water.  
 8/16/93 Produced 54 BBLS water, trace of oil.  
 Load to recover: 412 BBLS water.  
 DC: Nil CC: \$284,471
- 8-16-93: Add to previous report: 57 STB fluid w/approx 5% oil cut @ the wellhead.
- 8-17-93: 20 STBO & 35 STBW.
- 8-18-93: 25 STBO & 12 STBW, found well down, went down during the night due to lack of csg gas.
- 8-19-93: 40 STBO & 25 STBW. Pump is at capacity, proposed to speed up pumping unit if total fluid remains constant. Well is also still returning water from frac load.
- 8-20-93 27 STBO & 20 STBW, pumped for 18 hrs.
- 8-21-93 17 STBO & 20 STBW, well is gas loc gas locking.

DAILY OPERATING REPORTBALCRON FEDERAL #24-3Y

Location: SE SW Section 3, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

8-22-93 43 STBO & Zero water. Hot oiled well hot oiled.  
8-23-93 60 STBO & Zero water.  
8-24-93 35 STBO & 20 STBW.  
8-25-93 30 STBO & 30 STBW. Hot oiled well w/60 STB 2% KCl.  
8-26-93 28 STBO & 12 STBW.  
8-28-93 MIRU. Lowered pump. 30 STBO & 10 STBW.  
8-29-93 -0- STBO & 33 STBW, pumped 14 hrs.  
8-30-93 20 STBO & 26 STBW, pumped 24 hrs.  
8-31-93 28 STBO & 12 STBW, pumped 24 hrs.  
9-1-93 65 STBO & 9 STBW, pumped 24 hrs. 22 PSIG on csg gas.  
9-2-93 37 STBO & 32 STBW, pumped 24 hrs.  
9-3-93 51 STBO & -0- STBW, pumped 24 hrs. Now running on csg gas.  
9-4-93 63 STBO & 0 STBW.  
9-5-93 20 STBO & 0 STBW.  
9-6-93 47 STBO & 2 STBW.  
9-7-93 Completion  
Clean up location & paint fence & pipes.  
DC: \$146





# The Western Company—Treatment Report

Date 8-5-93 District VERNAL F. Receipt 220779 Operator BALCROW  
 Lease MB Well No. 24-34 Field PLEASANT VALLEY Location 53-79S-R17E  
 County Duchesne State UT Stage Number 2 This Zone  This Well

**WELL DATA** OGD  NG  NO  OOD  WOD  IWD  Misc.  Depth TD/PB \_\_\_\_\_ Formation \_\_\_\_\_  
 Tubing Size \_\_\_\_\_ WT. \_\_\_\_\_ Set at: \_\_\_\_\_ Type Packer \_\_\_\_\_ Set At \_\_\_\_\_  
 Casing Size 5 1/2 WT. 15.5 Set From SWF To TD Liner Size \_\_\_\_\_ Wt. \_\_\_\_\_  
 Liner Set From \_\_\_\_\_ To \_\_\_\_\_ Open Hole: Size \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_ Casing Perforations: Size .45  
 Holes Per Foot \_\_\_\_\_ Intervals 4787 - 4797 10 Holes  
 Previous Treatment BID KCL Prior Production N/A

**TREATMENT DATA** Pad Used: Yes  No  Pad Type Via I 35  
 Treating Fluid Type: Foam  Water  Acid  Oil  Treat. Fluid Vol. 3738 Gal.  
 Base Fluid Type 35# S-4L Base Fluid Vol. \_\_\_\_\_ Gal.  
 Foam Qual.: \_\_\_\_\_ % Mitchell  Slurry  Surface  Downhole  Total Prop Qty. 19,000 Lbs.  
 Prop Type: Sand  WP-1  WP-3  Baux.  Other 19,000 - 16/30  
 Prop Mesh Sizes, Types and Quantities 16/30 white sand  
 Hole Loaded With KCL Treat Via: Tubing  Casing  Anul.  Tubing & Anul.   
 Ball Sealers: \_\_\_\_\_ In \_\_\_\_\_ Stages of \_\_\_\_\_  
 Types and Number of Pumps Used 3-1300 FRAC MASTER'S  
 Auxiliary Materials 6# FRAC-PIPE 20

**LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.**  
 Tubing Cap. \_\_\_\_\_  
 Casing Cap. 113.5  
 Annular Cap. \_\_\_\_\_  
 Open Hole Cap. \_\_\_\_\_  
 Fluid to Load \_\_\_\_\_  
 Pad Volume 83  
 Treating Fluid 89  
 Flush 113  
 Overflush \_\_\_\_\_  
 Fluid to Recover 285  
 Total N<sub>2</sub> \_\_\_\_\_  
 Total CO<sub>2</sub> \_\_\_\_\_

### PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs Pumped		Slurry Rate BPM	Surface CO <sub>2</sub> BBLs Pumped		CO <sub>2</sub> Rate BPM	Surface N <sub>2</sub> MSCF Pumped		N <sub>2</sub> Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
8:25												Test lines @ 4000
8:50												START PAD
8:55	2800			83	11.7							START 2# 16/30
8:56	2820			95	16.5							START 3# 16/30
8:57	2850			110	13.5							START 4# 16/30
8:58	2400			130	15.5							START 5# 16/30
9:01	2800			145	13.7							START 6# 16/30
9:03	2600			195	13.8							START Flush
9:09	2680			306	18.5							SHUT DOWN All Flush

Treating Pressure: Min. 2600 Max. 3000 Avg. 2800 Customer Representative DALE GRIFFIN  
 Inj. Rate on Treating Fluid 11.7 Rate on Flush 18.5 Western Representative B. SEARLE  
 Avg Inj. Rate 15.5 I.S.D.P. 2000 Flush Dens. lb./gal. 8.34 Distribution \_\_\_\_\_  
 Final Shut-in Pressure 1170 in 15 Minutes \_\_\_\_\_  
 Operator's Maximum Pressure \_\_\_\_\_

Job Number 172-097 Recommendation ID # VR010453



# The Western Company—Treatment Report

Date 8-5-93 District VERNAL F. Receipt 220779 Operator BAKROW  
 Lease MB Well No. 24-34 Field PLEASANT VALLEY Location 53-795-R17E  
 County Duchesne State UT Stage Number 7 This Zone  This Well

### WELL DATA

OG  NG  NO  OO  WO  IW  Misc.  Depth TD/PB \_\_\_\_\_ Formation \_\_\_\_\_  
 Tubing Size \_\_\_\_\_ WT. \_\_\_\_\_ Set at: \_\_\_\_\_ Type Packer \_\_\_\_\_ Set At \_\_\_\_\_  
 Casing Size 5 1/2 WT. 15.5 Set From SAFE To TD Liner Size \_\_\_\_\_  
 Liner Set From \_\_\_\_\_ To \_\_\_\_\_ Open Hole: Size \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Holes Per Foot \_\_\_\_\_ Intervals 4787 - 4797 Casing Perforations: Size .45  
 Previous Treatment BID KCL Prior Production N/A

### TREATMENT DATA

Pad Used: Yes  No  Pad Type VIA I 35  
 Treating Fluid Type: Foam  Water  Acid  Oil  Treat. Fluid Vol. 3738 Gal.  
 Base Fluid Type 35# S-4L Base Fluid Vol. \_\_\_\_\_ Gal.  
 Foam Qual.: \_\_\_\_\_ % Mitchell  Slurry  Surface  Downhole  Total Prop Qty. 17,000 Lbs.  
 Prop Type: Sand  WP-1  WP-3  Baux  Other 19,000 - 16/30  
 Prop Mesh Sizes, Types and Quantities 16/30 white sand  
 Hole Loaded With KCL Treat Via: Tubing  Casing  Anul.  Tubing & Anul.   
 Ball Sealers: \_\_\_\_\_ In \_\_\_\_\_ Stages of \_\_\_\_\_  
 Types and Number of Pumps Used 3 - 1300 FRAC MASTER'S  
 Auxiliary Materials 6# FRAC-LIPE 20

### LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.

Tubing Cap. \_\_\_\_\_  
 Casing Cap. 113.5  
 Annular Cap. \_\_\_\_\_  
 Open Hole Cap. \_\_\_\_\_  
 Fluid to Load \_\_\_\_\_  
 Pad Volume 83  
 Treating Fluid 89  
 Flush 113  
 Overflush \_\_\_\_\_  
 Fluid to Recover 285  
 Total N<sub>2</sub> \_\_\_\_\_  
 Total CO<sub>2</sub> \_\_\_\_\_

### PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Surface CO <sub>2</sub> BBLs. Pumped		CO <sub>2</sub> Rate BPM	Surface N <sub>2</sub> MSCF Pumped		N <sub>2</sub> Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
8:25												
8:50												
8:55	2800											Test lines @ 4000
8:56	2820			83	16.7							START PAD
8:57	2850			95	16.5							START 2# 16/30
8:58	2900			110	13.5							START 3# 16/30
9:01	2800			130	13.5							START 4# 16/30
9:03	2600			165	13.7							START 5# 16/30
9:09	2680			193	13.8							START 6# 16/30
				306	18.5							START Flush
												SHUT DOWN All Flush

Treating Pressure: Min. 2600 Max. 3000 Avg. 2800 Customer Representative DALE GRIFFIN  
 Inj. Rate on Treating Fluid 16.7 Rate on Flush 18.5 Western Representative B. SEARLE  
 Avg. Inj. Rate 15.5 I.S.D.P. 2000 Flush Dens. lb./gal. 8.34 Distribution \_\_\_\_\_  
 Final Shut-in Pressure 1770 in 15 Minutes \_\_\_\_\_  
 Operator's Maximum Pressure \_\_\_\_\_

Job Number 172-0017

Recommendation ID # VR010483

**THE WESTERN COMPANY**

OPERATOR: BALCRON OIL COMPANY  
 WELL: MONUMENT BUTTE 24-3Y STG#2  
 FORMATION: GREEN RIVER

**FLUID & PROPPANT PUMPING SCHEDULE**

FLUID TYPE	FLUID VOLUME (GALS)	PROPPANT				VOLUME		
		CONC. (LB/GAL)	TOTAL (LBS)	MESH SIZE	TYPE	FLUID (BBLs)	SLURRY (BBLs)	CUM (BBLs)
VIKING I	3500	0.00	0	PAD		83	83	83
VIKING I	500	2.00	1000	16/30	SAND	12	13	96
VIKING I	500	3.00	1500	16/30	SAND	12	14	110
VIKING I	700	4.00	2800	16/30	SAND	17	20	130
VIKING I	1200	5.00	6000	16/30	SAND	29	35	165
VIKING I	1200	6.00	7200	16/30	SAND	29	36	201
VIKING I	1000	7.00	7000	16/30	SAND	24	31	232
VIKING I	4746	0.00	0			113	113	345
<b>TOTALS</b>	<b>13346</b>		<b>25500</b>			<b>319</b>	<b>345</b>	<b>345</b>

**RATE SCHEDULE**

FLUID TYPE	FLUID VOLUME (GALS)	PROPPANT CONC. (LB/GAL)	SLURRY RATE (BPM)	FLUID RATE (BPM)	PROPPANT RATE (LBS/MIN)	SLURRY VOLUME (BBLs)	PUMP TIME HH:MM:SS
VIKING I	3500	0.00	25.0	25.0	0.0	83	00:03:20
VIKING I	500	2.00	25.0	22.9	1925.4	13	00:00:31
VIKING I	500	3.00	25.0	22.0	2772.8	14	00:00:32
VIKING I	700	4.00	25.0	21.2	3555.1	20	00:00:47
VIKING I	1200	5.00	25.0	20.4	4279.6	35	00:01:24
VIKING I	1200	6.00	25.0	19.7	4952.4	36	00:01:27
VIKING I	1000	7.00	25.0	19.0	5578.9	31	00:01:15
VIKING I	4746	0.00	25.0	25.0	0.0	113	00:04:31
<b>TOTAL PUMP TIME</b>							<b>00:13:48</b>

3.5

VR010482 01 01

**THE WESTERN COMPANY**

OPERATOR: BALCRON OIL COMPANY  
 WELL: MONUMENT BUTTE FED. 24-3Y  
 FORMATION: GREEN RIVER

105

372

**FLUID & PROPPANT PUMPING SCHEDULE**

FLUID TYPE	FLUID VOLUME (GAL)	PROPPANT				PUMP		
		CONC. (LBS/GAL)	WEIGHT (LBS)	SIZE (MESH)	TYPE	START TIME (MM:SS)	STOP TIME (MM:SS)	DURATION (MM:SS)
VIKING I	4600	0.00	0	PAD		110		110
VIKING I	850	2.00	1700	20/40	SAND	20		132
VIKING I	850	3.00	2550	20/40	SAND	20		158
VIKING I	1400	4.00	5600	20/40	SAND	33		194
VIKING I	1400	5.00	7000	20/40	SAND	33		235
VIKING I	2000	6.00	12000	20/40	SAND	48		296
VIKING I	1300	6.00	7800	16/30	SAND	31		335
VIKING I	1100	7.00	7700	16/30	SAND	26		370
VIKING I	5418	0.00	0			129		499
<b>TOTALS</b>	<b>18918</b>		<b>44350</b>			<b>480</b>		<b>499</b>

4500 @ 20

@ 180 LBS INTO 6.0"

CUT 20/40

W/ FULL HOPPER

26

**RATE SCHEDULE**

FLUID TYPE	FLUID VOLUME (GAL)	PROPPANT CONC. (LBS/GAL)	PROPPANT WEIGHT (LBS)	PROPPANT SIZE (MESH)	PROPPANT TYPE	PUMP START TIME (MM:SS)	PUMP STOP TIME (MM:SS)	PUMP DURATION (MM:SS)
VIKING I	4600	0.00	35.0	35.0	0.0	110		00:03:07
VIKING I	850	2.00	38.0	32.1	2695.5	22		00:00:37
VIKING I	850	3.00	39.0	30.8	3881.9	23		00:00:39
VIKING I	1400	4.00	35.0	29.6	4977.1	39		00:01:07
VIKING I	1400	5.00	35.0	28.8	5991.4	41		00:01:10
VIKING I	2000	6.00	35.0	27.5	6923.4	61		00:01:43
VIKING I	1300	6.00	35.0	27.5	6923.4	39		00:01:07
VIKING I	1100	7.00	35.0	26.6	7810.5	35		00:00:59
VIKING I	5418	0.00	35.0	38.0	0.0	129		00:03:41
<b>TOTAL PUMP TIME</b>								<b>00:16:16</b>

#27070

VR010482 01 01

3.5

**THE WESTERN COMPANY**

OPERATOR: BALCRON OIL COMPANY  
WELL: MONUMENT BUTTE FED. 24-3Y  
FORMATION: GREEN RIVER

**FLUID & PROPPANT PUMPING SCHEDULE**

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PLATE TYPE	PLATE WEIGHT (LBS)	PROPPANT				TOTALS		
		CONC. (LBS/100)	DEPTH (FEET)	SIZE	TYPE	PLATE (LBS)	PROPPANT (LBS)	CONC. (LBS)
VIKING I	4600	0.00	0	PAD				
VIKING I	850	2.00	1700	20/40	SAND	110		110
VIKING I	850	3.00	2550	20/40	SAND	20		132
VIKING I	1400	4.00	5600	20/40	SAND	20		158
VIKING I	1400	5.00	7000	20/40	SAND	33		194
VIKING I	2000	6.00	12000	20/40	SAND	33		235
VIKING I	1300	7.00	7800	16/30	SAND	48		296
VIKING I	1100	0.00	7700	16/30	SAND	31		335
VIKING I	5418	0.00	0		SAND	26		370
<b>TOTALS</b>	<b>18918</b>		<b>44350</b>			<b>129</b>		<b>499</b>

**RATE SCHEDULE**

4500 @ 20  
@ PALS INTO 6.0F

CUT 2014  
w/ Full Hopper

26

PLATE TYPE	PLATE WEIGHT (LBS)	PROPPANT CONC. (LBS/100)	PROPPANT DEPTH (FEET)	PROPPANT SIZE	PROPPANT TYPE	PLATE (LBS)	PROPPANT (LBS)	TOTAL TIME
VIKING I	4600	0.00	35.0	35.0	0.0			
VIKING I	850	2.00	35.0	32.1	2698.5	110	00:03:07	
VIKING I	850	3.00	35.0	30.8	3881.9	22	00:00:37	
VIKING I	1400	4.00	35.0	29.6	4977.1	23	00:00:39	
VIKING I	1400	5.00	35.0	28.8	5991.4	39	00:01:07	
VIKING I	2000	6.00	35.0	27.5	6933.4	41	00:01:10	
VIKING I	1300	6.00	35.0	27.5	6933.4	61	00:01:43	
VIKING I	1100	7.00	35.0	26.6	7810.6	39	00:01:07	
VIKING I	5418	0.00	35.0	35.0	0.0	35	00:00:59	
<b>TOTALS</b>						<b>129</b>	<b>00:03:41</b>	
<b>TOTAL PUMP TIME</b>								<b>00:16:16</b>

22070





# The Western Company—Treatment Report

Date 8-4-93 District VERNON F. Receipt 220798 Operator BALCROW  
 Lease Feed Well No. 24-34 Field Pleasant Valley Location 23-795-1217E  
 County Duchesne State UT Stage Number 2 This Zone  This Well

**WELL DATA** OGD  NGD  NOX  OOD  WDD  IWD  Misc.  Depth TD/PB \_\_\_\_\_ Formation \_\_\_\_\_  
 Tubing Size 2 7/8 WT. 6.1 Set at: 4764 Type Packer \_\_\_\_\_ Set At 4733  
 Casing Size 5 1/2 WT. 15.5 Set From Surf To TD Liner Size \_\_\_\_\_ Wt. \_\_\_\_\_  
 Liner Set From \_\_\_\_\_ To \_\_\_\_\_ Open Hole: Size \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_ Casing Perforations: Size .4  
 Holes Per Foot \_\_\_\_\_ Intervals 4767-4797  
 Previous Treatment 3/10 - FRAC Prior Production N/A

**TREATMENT DATA** Pad Used: Yes  No  Pad Type \_\_\_\_\_  
 Treating Fluid Type: Foam  Water  Acid  Oil  Treat. Fluid Vol. 2520 Gal.  
 Base Fluid Type 3% KCL Base Fluid Vol. \_\_\_\_\_ Gal.  
 Foam Qual.: \_\_\_\_\_ % Mitchell  Slurry  Surface  Downhole  Total Prop Qty. \_\_\_\_\_ Lbs.  
 Prop Type: Sand  WP-1  WP-3  Baux.  Other \_\_\_\_\_  
 Prop Mesh, Sizes, Types and Quantities \_\_\_\_\_  
 Hole Loaded With \_\_\_\_\_ Treat Via: Tubing  Casing  Anul.  Tubing & Anul.   
 Ball Sealers: 60 In 60 Stages of 1  
 Types and Number of Pumps Used 1 ACID FRAC 700  
 Auxiliary Materials 60 1.2 BAKS

**LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.**  
 Tubing Cap. 27.6  
 Casing Cap. .8  
 Annular Cap. \_\_\_\_\_  
 Open Hole Cap. \_\_\_\_\_  
 Fluid to Load 0  
 Pad Volume 0  
 Treating Fluid Flush 60  
 Overflush \_\_\_\_\_  
 Fluid to Recover \_\_\_\_\_  
 Total N<sub>2</sub> \_\_\_\_\_  
 Total CO<sub>2</sub> \_\_\_\_\_

**PROCEDURE SUMMARY** Pump 45 BALLS IN 15 BBLs KCL H<sub>2</sub>O Balled off. Do injection Test.

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs Pumped		Slurry Rate BPM	Surface CO <sub>2</sub> BBLs Pumped		CO <sub>2</sub> Rate BPM	Surface N <sub>2</sub> MSCE Pumped		N <sub>2</sub> Rate	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
17:33												Start Injection Test @ 4000
17:45												Start KCL WATER
17:53												Shut Down TLM VALVE
18:05												Start KCL
18:56												Shut Down PACKER
4:12												Retest Lines
4:33												Start KCL WATER
4:34	1400			1.5	4.5							START BALLS
4:41	3800			50.4	3							Ball out
5:19	2600			50.4	6.1							START INJECTION TEST
5:17	2600			63	6.1							Shut Down
												5 MIN

Treating Pressure: Min. 1800 Max. 3800 Avg. 2300 Customer Representative D. GRIFFIN  
 Inj. Rate on Treating Fluid 4.5 Rate on Flush 4.5 Western Representative B. SEARLE  
 Avg. Inj. Rate 4.5 I.S.D.P. 1300 Flush Dens. lb./gal. \_\_\_\_\_ Distribution \_\_\_\_\_  
 Final Shut-in Pressure 1000 in 5 MIN Minutes  
 Operator's Maximum Pressure 3000

Job Number \_\_\_\_\_ Recommendation ID # \_\_\_\_\_



# CANNON WELL SERVICE, INC.

P.O. Box 906  
VERNAL, UTAH 84078

Page #1

## SWAB REPORT

DATE 8-3-93 LEASE Monument Butte WELL NO. Balcon Fed 24-34

TANK NO. TANK SIZE BBLs. PER INCH CO. REP. Dale Griffin

659/291 722-4469

RING	FLUID LEVEL	PULLED FROM	FLUID LEVEL IN TANK		BBLs. IN TANK	BBLs. PER RUN	TOT. BBLs. SWABBED	FLUID ANALYSIS					
			FT.	IN.				OIL	WATER	MUD	BS	GAS	
1	100'	1100'				6	6	100%					
2	300'	1300'				6	12	100%					
3	400'	1400'				6	18	100%					
4	600'	1600'				6	24	100%					
5	700'	1700'				6	30	100%					
6	900'	1900'				6	36	100%					
7	1000'	2000'				6	42	100%					
8	1100'	2100'				6	48	100%					
9	1200'	2200'				6	54	100%					
10	1300'	2300'				6	60	100%					
11	1400'	2400'				6	66	100%					
12	1600'	2600'				6	72	100%					
13	1700'	2700'				6	78	100%					
14	1800'	2800'				6	84	100%					
15	1900'	2900'				6	90	100%					
16	2100'	3100'				6	96	100%					
17	2200'	3200'				6	102	100%					
18	2200'	3200'				6	108	100%					
19	2300'	3300'				6	114	17% 99%					
20	2300'	3300'				6	120	27% 98%					
21	2400'	3400'				6	126	27% 98%					
22	2400'	3400'				6	132	27% 98%					
23	2400'	3400'				6	138	57% 95%					
24	2400'	3400'				6	144	57% 95%					
25	2400'	3400'				6	150	57% 95%					
26	2500'	3500'				6	156	79% 93%					
27	2500'	3500'				6	162	79% 93%					
28	2500'	3500'				6	168	79% 93%					
29	2500'	3500'				6	174	10% 90%					
30	2500'	3500'				6	180	10% 90%					





# The Western Company—Treatment Report

Date 8-1-93 District VIRNAI F. Receipt 220758 Operator Balceran  
 Lease Federal Well No. 24-34 Field Pleasant Valley Location 3/T95/R17E  
 County Puckett State Ut Stage Number 1 This Zone  This Well

**WELL DATA** OGD  NGD  NOG  OOG  WDG  IWD  Misc.  Depth TD/PB 5827 Formation \_\_\_\_\_  
 Tubing Size 2 7/8 WT. 6.5 Set at: 5110 Type Packer \_\_\_\_\_ Set At 5118  
 Casing Size 5.5 WT. 15.5 Set From \_\_\_\_\_ To \_\_\_\_\_ Liner Size \_\_\_\_\_ Wt. \_\_\_\_\_  
 Liner Set From \_\_\_\_\_ To \_\_\_\_\_ Open Hole: Size \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_ Casing Perforations: Size \_\_\_\_\_  
 Holes Per Foot \_\_\_\_\_ Intervals 5112 - 5512  
 Previous Treatment N/A Prior Production N/A

**TREATMENT DATA** Pad Used: Yes  No  Pad Type \_\_\_\_\_  
 Treating Fluid Type: Foam  Water  Acid  Oil  Treat. Fluid Vol. \_\_\_\_\_ Gal.  
 Base Fluid Type 2% KCL Base Fluid Vol. \_\_\_\_\_ Gal.  
 Foam Qual.: \_\_\_\_\_ % Mitchell  Slurry  Surface  Downhole  Total Prop Qty. \_\_\_\_\_ Lbs.  
 Prop Type: Sand  WP-10  WP-30  Baux.  Other \_\_\_\_\_  
 Prop Mesh Sizes, Types and Quantities \_\_\_\_\_  
 Hole Loaded With KCL Treat Via: Tubing  Casing  Anul.  Tubing & Anul.   
 Ball Sealers: 15 In 15 Stages of 1  
 Types and Number of Pumps Used 1 ACID FRAC 700  
 Auxiliary Materials 15 BALLS 1.5 SD 612 7/8

**LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.**  
 Tubing Cap. 31.5  
 Casing Cap. 1.5  
 Annular Cap. \_\_\_\_\_  
 Open Hole Cap. \_\_\_\_\_  
 Fluid to Load \_\_\_\_\_  
 Pad Volume \_\_\_\_\_  
 Treating Fluid 8.15  
 Flush 3.3  
 Overflush 11  
 Fluid to Recover 97.8  
 Total N<sub>2</sub> \_\_\_\_\_  
 Total CO<sub>2</sub> \_\_\_\_\_

**PROCEDURE SUMMARY** Drop Balls in KCL + flush to Bottom of

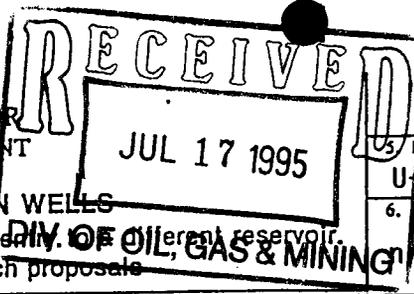
Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Surface CO <sub>2</sub> BBLs. Pumped		CO <sub>2</sub> Rate BPM	Surface N <sub>2</sub> MSCF Pumped		N <sub>2</sub> Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
7:15	STP											
8:10												Test lines @ 4000
8:22	1800	-			4.8							start 26" H <sub>2</sub> O allowed
8:29	1800				4.8							start balls
8:49	3000				2.2							balls on feet
9:25	2500				.8							shut down all flow
9:31	250											start injection Test
9:31	2300				6.3							shut down
												5--980
												10--950
												15--800

Treating Pressure: Min. 1400 Max. 3600 Avg. 3100 Customer Representative DATE GRIFFIN  
 Inj. Rate on Treating Fluid 4.8 Rate on Flush .8 Western Representative BLANK SCHEFFLE  
 Avg. Inj. Rate 1.5 I.S.D.P. 1000 Flush Dens. lb./gal. 2.1 Distribution \_\_\_\_\_  
 Final Shut-in Pressure \_\_\_\_\_ in \_\_\_\_\_ Minutes  
 Operator's Maximum Pressure 3500

Job Number \_\_\_\_\_ Recommendation ID # \_\_\_\_\_



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 recomplete a well.  
Use "APPLICATION FOR PERMIT—" for such proposals.

U.S. Lease Designation and Serial No.  
U-64381  
6. If Indian, Allottee or Tribe Name  
n/a

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)  
 SE SW Section 3, T9S, R17E  
 562' FSL, 1887' FWL

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

8. Well Name and No.  
 Balcron Federal #24-3Y

9. API Well No.  
 43-013-31397

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

11. County or Parish, State  
 Duchesne County, UT

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

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

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

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

Operator requests approval for off-lease natural gas measurement for this well. It is desired to place the gas meter off-lease to reduce the distance that our gas plant operator must travel each day. The operator must check the meter daily. Due to rocky terrain this necessitates driving several additional miles each day if the meter were located on lease. Less driving also aids with dust control. See attached map for the meter location.

Operator also requests approval to commingle gas from this well and the Balcron Federal #22-10Y in SE NW Section 10, T9S, R17E (Lease U-65210). This is also to reduce the distance that our gas plant operator must travel each day. The commingled gas would be measured with a single gas meter and allocated back to each well.

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

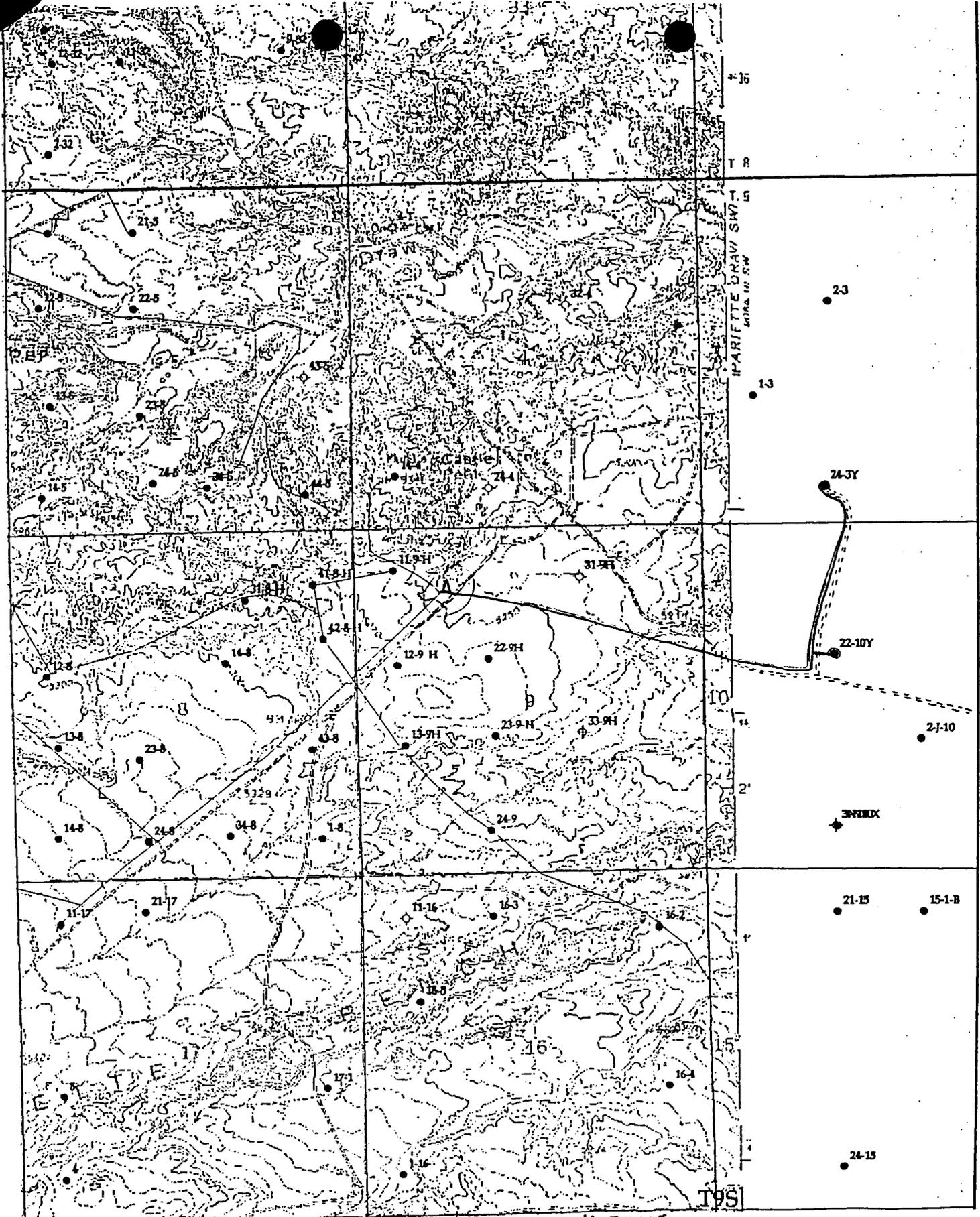
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date July 13, 1995

(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.



**PIPELINE ROW U-53105**

- Existing Gas Lines
  - Proposed 2" Poly Lines (ROW)
  - ▲ Proposed Gas Meter
- 24-34  
22-104

Equitable Resources Energy Company  
Balcon Oil Division

Monument Butte Gas Plant  
Gas Gathering System

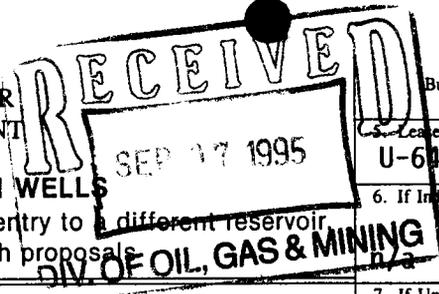
5-1-94

12

T 9 S

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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



**SUNDRY NOTICES AND REPORTS ON WELLS**

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

Lease Designation and Serial No.  
**U-61381**

6. If Indian, Allottee or Tribe Name  
7. If Unit or CA, Agreement Designation

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well    Gas Well    Other

n/a  
8. Well Name and No.  
**Balcron Federal #24-3Y**

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

9. API Well No.  
**43-013-31397**

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SE SW Section 3, T9S, R17E  
562' FSL, 1887' FWL**

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

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> 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 <b>off-lease gas measurement and commingling</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Operator requests approval for off-lease gas measurement and commingling in accordance with the attached explanation.

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

**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 Bobbie Schuman

Title Regulatory and Environmental Specialist

Date 9-5-95

(This space for Federal or State office use)

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

Title \_\_\_\_\_ Date \_\_\_\_\_

Attachment To Sundry Notice  
Balcron Federal #24-3Y  
Duchesne County, Utah

Equitable Resources Energy Company, Balcron Oil Division is requesting approval for off-lease natural gas measurement for the Balcron Federal #24-3Y. Balcron Oil is also requesting approval to commingle the natural gas produced from this well with the natural gas produced from the Balcron Federal #22-10Y (Lease No. U-65210) located in the SE NW Section 10, T9S, R17E, Duchesne County, Utah. Placing the natural gas meter for these wells off-lease will reduce the distance that our gas plant operator must travel each day by several miles. Reducing the distance traveled will reduce Balcron Oil's operating costs and will aid in dust control and the over-all impact on this area. The commingling of produced natural gas from these wells allows for a single gas meter to be placed in a convenient location close to Balcron's existing operations. These wells produce approximately five to six MSCFPD of natural gas above that used on lease. A second gas meter would cost approximately \$3500.00 to install which is not economical at today's gas prices. It is proposed to commingle the gas production from these wells which will be measured with a single gas meter and allocated back to each well according to quarterly gas tests. The gas tests will be performed by Balcron Oil employees using an orifice and pressure recorder. These gas tests will be used in a spreadsheet to allocate the total produced gas back to each well on a monthly basis.





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

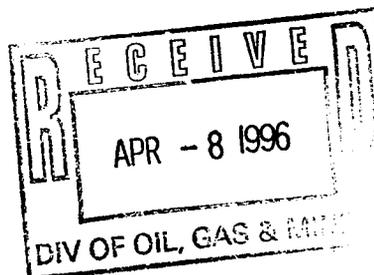
**BALCRON OIL DIVISION**

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.

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

1. Type of Well: OIL  GAS  OTHER: See attached listing

8. Well Name and Number:

See attached listing

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

9. API Well Number:

See attached listing

3. Address and Telephone Number:  
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

10. Field and Pool, or Wildcat:

See attached listing

4. Location of Well  
Footages: See attached listing

County: See attached list

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

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.

13. Name & Signature: Bobbie Schuman  
Bobbie Schuman

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

(This space for State use only)

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

Routing:

1	LEP 7-SJ	✓
2	DP 58-FILE	✓
3	VLD (GIL)	✓
4	RJE	✓
5	IFC	✓
6	FILM	✓

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	phone (406) <u>259-7860</u>	<u>BILLINGS MT 59102-4126</u>
	account no. <u>N9890</u>	phone (406) <u>259-7860</u>
		account no. <u>N9890</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>013-31397</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 4-4-96 & 4-8-96)*
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(4-10-96)*
- Yec 6. Cardex file has been updated for each well listed above. *(4-11-96)*
- Yec 7. Well file labels have been updated for each well listed above. *(4-11-96)*
- Yec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(4-10-96)*
- Yec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- See* 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) Schwa Ins. Co. (Bond Rider In Progress)

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

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

**FILMING**

- KDR* 1. All attachments to this form have been microfilmed. Date: May 20 1996.

**FILING**

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

**COMMENTS**

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

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

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT  (Highlight Changes)

Well Name API Number      Entity      Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ MONUMENT FEDERAL 14-5 4301331385 11492 09S 17E 5	GRRV					
✓ MONUMENT FEDERAL 24-12J 4301331409 11492 09S 16E 12	GRRV					
✓ BALCRON MONUMENT FEDERAL 31-1J 4301331413 11492 09S 16E 1	GRRV					
✓ MONUMENT FEDERAL 32-1J 4301331414 11492 09S 16E 1	GRRV					
✓ BALCRON MONUMENT FEDERAL 33-11J 4301331451 11492 09S 16E 11	GRRV					
✓ BALCRON MONUMENT FEDERAL 42-12J 91331486 11492 09S 16E 12	GRRV					
✓ BALCRON MONUMENT FEDERAL 41-12J 4301331487 11492 09S 16E 12	GRRV					
✓ BALCRON MONUMENT FEDERAL 12-7J 4301331493 11492 09S 17E 7	GRRV					
✓ FEDERAL 24-3Y 4301331397 11493 09S 17E 3	GRRV					
✓ FEDERAL 14-4 4304715678 11500 08S 25E 4	GRRV					
✓ E. RED WASH 1-5 4304720174 11500 08S 25E 5	GRRV					
✓ E. RED WASH FED 1-12 4304720207 11500 08S 24E 12	GRRV					
✓ E. RED WASH FED 1-6 4304720208 11500 08S 25E 6	GRRV					
<b>TOTALS</b>						

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

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

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

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

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

UTAH - ALL

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31392	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNL, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WVW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WVW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WVW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WVW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WVW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WVW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

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

4. Location of Well

Footages: See Attached Exhibit

OO, Sec., T., R., M.:

County:

State:

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Date of work completion 9-30-97

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

\* Must be accompanied by a cement verification report.

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

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

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

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

OCT 10 1997

13.

Name & Signature:

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date:

9/30/97

(This space for State use only)

INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ BALCRON FEDERAL #24-3Y	SESW 3 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31397-00	UTU75037	
✓ BALCRON FEDERAL #44-4Y	SESE 4 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31452-00	UTU65967	
✓ BALCRON FEDERAL #14-3Y	SW SW 3 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31535-00	UTU75037	
✓ MONUMENT FEDERAL #11-11Y	NW NW 119S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31593-00	UTU65210	
✓ MONUMENT FEDERAL #31-5-9-17	NW NE 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31680-00	UTU74808	
ALLEN FEDERAL #1	SESE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15779-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #12-5	SWNW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30611-00	UTU020252	UTU72086A
✓ ALLEN FEDERAL #12-6	SWNW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30582-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #13-6	NWSW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30918-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #21-5	NENW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30612-00	UTU020252	UTU72086A
✓ ALLEN FEDERAL #21-6	LOT3 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30584-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #22-6	SENW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30919-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #23-6	NESW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30558-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #31-6	LOT2 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31195-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #32-6	SWNE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30559-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #34-6	SWSE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30586-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #41-6	NENE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30581-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #43-6	NESE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30583-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL A #1	NWNW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15780-00	UTU020252	UTU72086A
✓ C&O GOV'T #1	NWSW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15111-00	UTU035521A	UTU72086A
✓ C&O GOV'T #2	NWSE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15112-00	UTU035521	UTU72086A
✓ C&O GOV'T #4	NESW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30742-00	UTU035521A	UTU72086A
✓ CASTLE PEAK FEDERAL #22-15	SENW 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30634-00	UTU017985	UTU72086A
✓ CASTLE PEAK FEDERAL #24-15	SESW 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30631-00	UTU017985	UTU72086A
✓ CASTLE PEAK FEDERAL #31-15	NWNE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30613-00	UTU017985	UTU72086A
✓ CASTLE PEAK FEDERAL #33-15	NWSE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30632-00	UTU017985	UTU72086A
✓ CASTLE PEAK FEDERAL #44-10	SESE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30630-00	UTU017985	UTU72086A
✓ CASTLE PEAK FEDERAL #42-15	SENE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30633-00	UTU017985	UTU72086A
✓ FEDERAL #2-1	NENE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30603-00	UTU33992	UTU72086A
✓ GETTY #12-1	NWNE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30889-00	UTU44426	UTU72086A
✓ GETTY #7-A	NENE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30926-00	UTU44426	UTU72086A
✓ GETTY #7-C	NENW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30961-00	UTU44426	UTU72086A
✓ GOATES FEDERAL #1	SESW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15789-00	UTU096547	UTU72086A
✓ GOATES FEDERAL #3	NWNW 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15791-00	UTU096547	UTU72086A
✓ MONUMENT BUTTE #1-14	SWSW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30703-00	UTU18399	UTU72086A
✓ MONUMENT BUTTE #1-23	NESW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30646-00	UTU18399	UTU72086A
✓ MONUMENT BUTTE #1-24	SESW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30701-00	UTU18399	UTU72086A
✓ MONUMENT BUTTE #1-34	SWSE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30736-00	UTU52013	UTU72086A
✓ MONUMENT BUTTE #1-43	NESE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30734-00	UTU52013	UTU72086A

RECEIVED

OCT 16 1997



October 7, 1997

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

RE: Change of Operator  
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

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

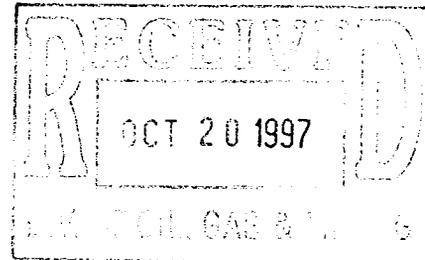
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





# 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

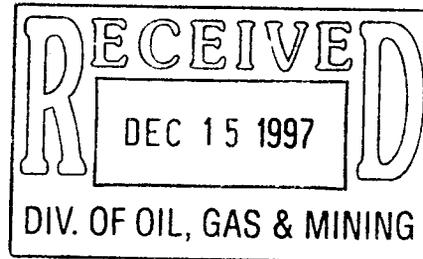
## BUREAU OF LAND MANAGEMENT

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

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:  
3162.3  
UT08438

December 9, 1997



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

Re: Well No. Balcron Federal 24-3Y  
SESW, Sec. 3, T9S, R17E  
Lease U-75037  
Duchesne County, Utah  
*43-013-31397*

Dear Sir:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Inland Production Company is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0056, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Howard B. Cleavinger II  
Assistant Field Manager,  
Minerals Resources

cc: Division of Oil, Gas & Mining  
Equitable Resources Energy Company  
Yates Petroleum Corp.

# OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTB/S	8-SI
4-VLD	9-FILE
5-IRB	

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

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

TO: (new operator)	<u>INLAND PRODUCTION COMPANY</u>	FROM: (old operator)	<u>EQUITABLE RESOURCES ENERGY</u>
(address)	<u>PO BOX 1446</u>	(address)	<u>C/O CRAZY MTN O&amp;G SVS</u>
	<u>ROOSEVELT UT 84066</u>		<u>PO BOX 577</u>
			<u>LAUREL MT 59044</u>
	Phone: <u>(801)722-5103</u>		Phone: <u>(406)628-4164</u>
	Account no. <u>N5160</u>		Account no. <u>N9890</u>

WELL(S) attach additional page if needed:

Name: <u>HENDEL FED. 1-9/GRRV</u>	API: <u>43-047-20011</u>	Entity: <u>1310</u>	S <u>9</u>	T <u>9S</u>	R <u>19E</u>	Lease: <u>U058149</u>
Name: <u>FEDERAL 24-3Y/GRRV</u>	API: <u>43-013-31397</u>	Entity: <u>11493</u>	S <u>3</u>	T <u>9S</u>	R <u>17E</u>	Lease: <u>U64381</u>
Name: <u>FEDERAL 21-25Y/GRRV</u>	API: <u>43-013-31394</u>	Entity: <u>11530</u>	S <u>25</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U64380</u>
Name: <u>MONUMENT 14-3-9-17Y/GR</u>	API: <u>43-013-31535</u>	Entity: <u>11857</u>	S <u>3</u>	T <u>9S</u>	R <u>17E</u>	Lease: <u>U64381</u>
Name: <u>MONUMENT 22-20-9-16/GR</u>	API: <u>43-013-31681</u>	Entity: <u>11961</u>	S <u>20</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U52018</u>
Name: <u>MONUMENT 24-17-9-16/GR</u>	API: <u>43-013-31682</u>	Entity: <u>11994</u>	S <u>17</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U52018</u>
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). *(rec'd 12-10-97)*
2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(rec'd 10-20-97)*
3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_
4. FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(12-15-97)*
6. Cardex file has been updated for each well listed above. *(12-15-97)*
7. Well file labels have been updated for each well listed above. *(12-15-97)*
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(12-15-97)*
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Yes 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) \_\_\_\_ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- Yes 2. A copy of this form has been placed in the new and former operator's bond files.
- \_\_\_ 3. The FORMER operator has requested a release of liability from their bond (yes/no) \_\_\_\_, as of today's date \_\_\_\_\_. If yes, division response was made to this request by letter dated \_\_\_\_\_.

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on \_\_\_\_\_ to \_\_\_\_\_ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 2/21/97 19 \_\_\_\_, of their responsibility to notify all interest owners of this change.

**FILMING**

- Yes 1. All attachments to this form have been microfilmed. Today's date: JAN 06 1998.

**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**

971215 BLM / aprv. 12-9-97.

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

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

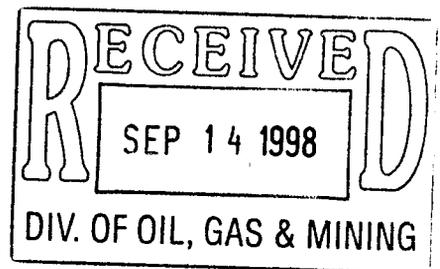
<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-75037</b>	
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  <b>N/A</b>	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> INJECTION		7. UNIT AGREEMENT NAME  <b>NA</b>	
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		8. FARM OR LEASE NAME <b>FEDERAL 24-3Y</b>	
3. ADDRESS OF OPERATOR <b>410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102</b>		9. WELL NO. <b>24-3Y</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>SE/SW 0562 FSL 1887 FWL</b>		10. FIELD AND POOL, OR WILDCAT  <b>MONUMENT BUTTE</b>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SE/SW Section 3, T09S R17E</b>	
14. API NUMBER <b>43-013-31397</b>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5099 GR</b>	12. COUNTY OR PARISH <b>DUCHESNE</b>	13. STATE <b>UT</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/></p> <p>FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/></p> <p>SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/></p> <p>REPAIR WELL <input type="checkbox"/></p> <p>(OTHER) _____ <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/></p> <p>FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/></p> <p>(OTHER) <u>Change in Lease Number</u> <input checked="" type="checkbox"/></p> <p>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p>
---	---

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Due to unitization, the lease number for the above referenced well has been changed from U-64381 to UTU-75037.



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

SIGNED Debbie E. Knight TITLE Manager, Regulatory Compliance DATE 9/11/98

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

47-1674

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- 1. Irrigation  Domestic  Stockwatering  Municipal  Power  Mining  Other Uses

2. The name of the applicant is Joe Shields

3. The Post Office address of the applicant is Myton, Utah 84052

4. The quantity of water to be appropriated .015 second-feet and/or \_\_\_\_\_ acre-feet

5. The water is to be used for Stockwatering & Other from \_\_\_\_\_ to \_\_\_\_\_  
(Major Purpose) (Month) (Day) (Month) (Day)

other use period Irrigation from Apr. 1 to Oct. 31  
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from \_\_\_\_\_ to \_\_\_\_\_  
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is \_\_\_\_\_  
(Leave Blank)

7. The direct source of supply is\* Drain  
(Name of stream or other source)

which is tributary to \_\_\_\_\_ tributary to \_\_\_\_\_

\*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Duchesne County, situated at a point\*  
West 900 ft. South 1100ft. from E½ Cor. Sec. 15, T4S, R2W, USB&M  
(3½ Miles SW of Myton)

Myton Area

\*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of a collection ditch to place of use

10. If water is to be stored, give capacity of reservoir in acre-feet \_\_\_\_\_ height of dam \_\_\_\_\_  
area inundated in acres \_\_\_\_\_ legal subdivision of area inundated \_\_\_\_\_

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:  
NE½SE½ Sec. 15, T4S, R2W, USB&M

Total .25 Acres

12. Is the land owned by the applicant? Yes X No \_\_\_\_\_ If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes \_\_\_\_\_ No X  
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. \_\_\_\_\_

15. If application is for mining, the water will be used in \_\_\_\_\_ Mining District at  
the \_\_\_\_\_ mine, where the following ores are mined \_\_\_\_\_

16. If application is for stockwatering purposes, number and kind of stock watered 320 Cattle  
in NE½SE½ Sec. 15, T4S, R2W, USB&M

17. If application is for domestic purposes, number of persons \_\_\_\_\_, or families \_\_\_\_\_

18. If application is for municipal purposes, name of municipality \_\_\_\_\_

19. If application is for other uses, include general description of proposed uses Oil Field use

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Myton Oil Field in Pleasant Valley

21. The use of water as set forth in this application will consume .015 second-feet and/or acre-feet of water and None second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: \_\_\_\_\_

Lined area for text entry.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

*[Handwritten Signature]*  
Signature of Applicant\*

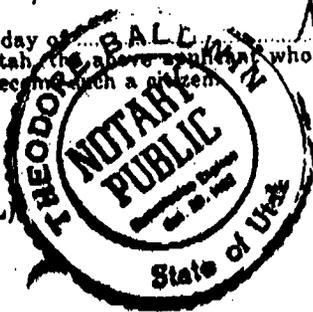
\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, *Vintah* }  
County of.....

On the *10th* day of *May*, 19 *82*, personally appeared before me, a notary public for the State of Utah, *the above named* who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:



*Theodore Baldwin*  
Notary Public

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.

**UTU-75037**

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

**FEDERAL 24-3Y**

9. API Well No.

**43-013-31397**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

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

**0562 FSL 1887 FWL                      SE/SW Section 3, T09S R17E**

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

**TYPE OF SUBMISSION**

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

**TYPE OF ACTION**

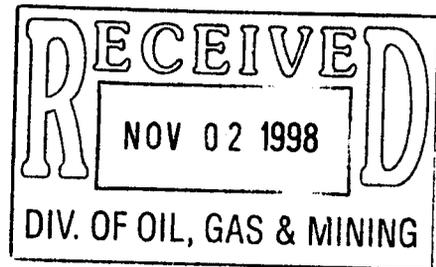
Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Site Security

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-ally 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

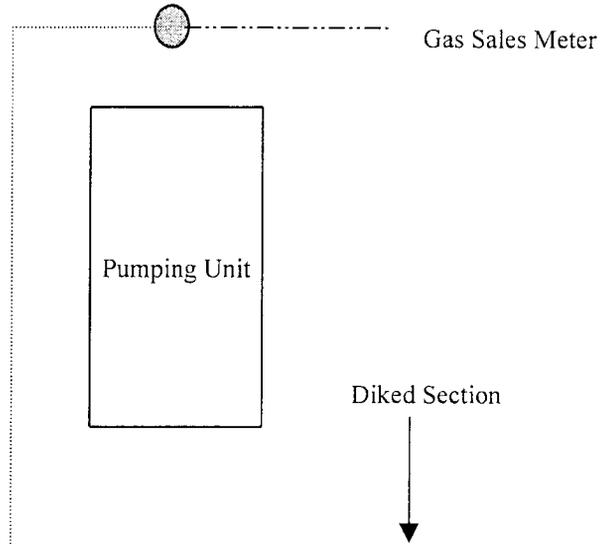
Federal 24-3Y

SE/SW Sec. 3, T9S, 17E

Duchesne County

May 12, 1998

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



**Production Phase:**

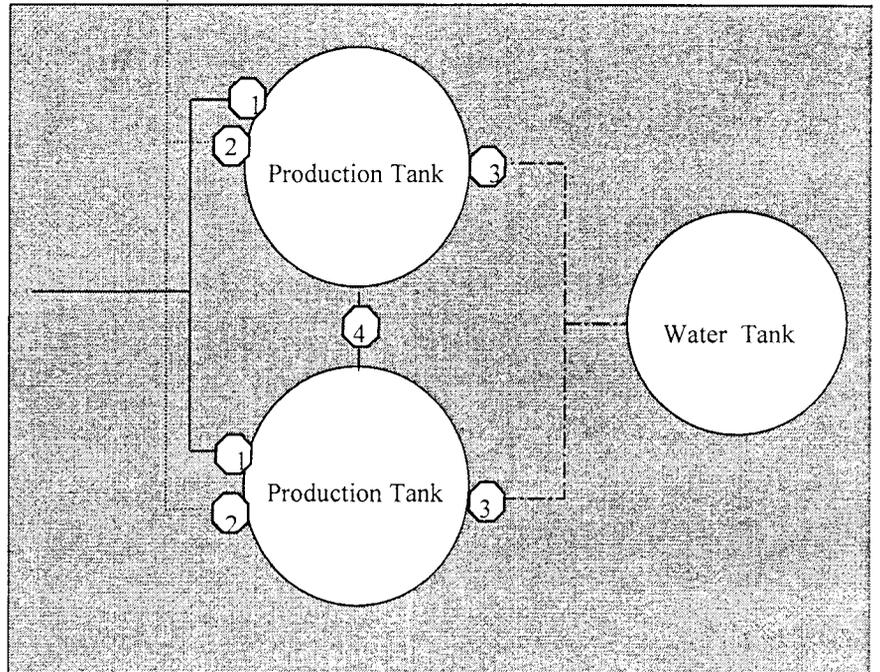
- 1) Valves 1 and 3 sealed closed
- 2) Valves 2 and 4 sealed open

**Sales Phase:**

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

**Draining Phase:**

- 1) Valve 3 open



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

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM -FORM 6

OPERATOR: INLAND PRODUCTION COMPANY  
 ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11867	12704	43-013-31536	Monument Federal #12-10Y	SWNW	10	9S	17E	Duchesne		3/1/2000
WELL 2 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added</i>											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11857	12704	43-013-31535	Federal #14-3Y	SWSW	3	9S	17E	Duchesne		3/1/2000
WELL 2 COMMENTS: Moved well to BlackJack Unit <i>000514 entity added.</i>											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11859	12704	43-013-31537	Federal #21-10Y	NENW	10	9S	17E	Duchesne		3/1/2000
WELL 3 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11501	12704	43-013-31395	Federal #22-10Y	SENW	10	9S	17E	Duchesne		3/1/2000
WELL 4 COMMENTS: Moved well to BlackJack Unit <i>000514 entity added</i>											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
	11493	12704	43-013-31397	Federal #24-3Y	SESW	3	9S	17E	Duchesne		3/1/2000
WELL 5 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											

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**

MAY 11 2000

DIVISION OF  
 OIL, GAS AND MINING

*Lebbie S Jones*  
 Signature  
 Production Clerk  
 Title  
 May 9, 2000  
 Date



February 7, 2003

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Balcron Federal #24-3Y-9-17 *INDIAN COUNTRY*  
Monument Butte Field, BlackJack Unit, Lease #UTU-75037  
Section 3-Township 9S-Range 17E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Balcron Federal #24-3Y-9-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, BlackJack Unit.

We also request permission to add additional perforations between the Garden Gulch and Basal Limestone formations at that time. All work will be detailed in a Sundry Notice.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

David Gerbig  
Operations Engineer

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

RECEIVED

FEB 25 2003

DIV. OF OIL, GAS & MINING

**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**BALCRON FEDERAL #24-3Y-9-17**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**BLACKJACK UNIT**  
**LEASE #UTU-75037**  
**FEBRUARY 7, 2003**

**RECEIVED**

**FEB 25 2003**

DIV. OF OIL, GAS & MINING

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COVER PAGE	
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# Balcron Federal #24-3Y-9-17

Initial Production: 42 BOPD,  
NM MCFD, 2 BWPD

Spud: 7/10/93  
Put on Production: 8/26/93  
GL: 5042' KB: 5052'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 6 jts. (249.7')  
DEPTH LANDED: 258.7' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt.

## PRODUCTION CASING

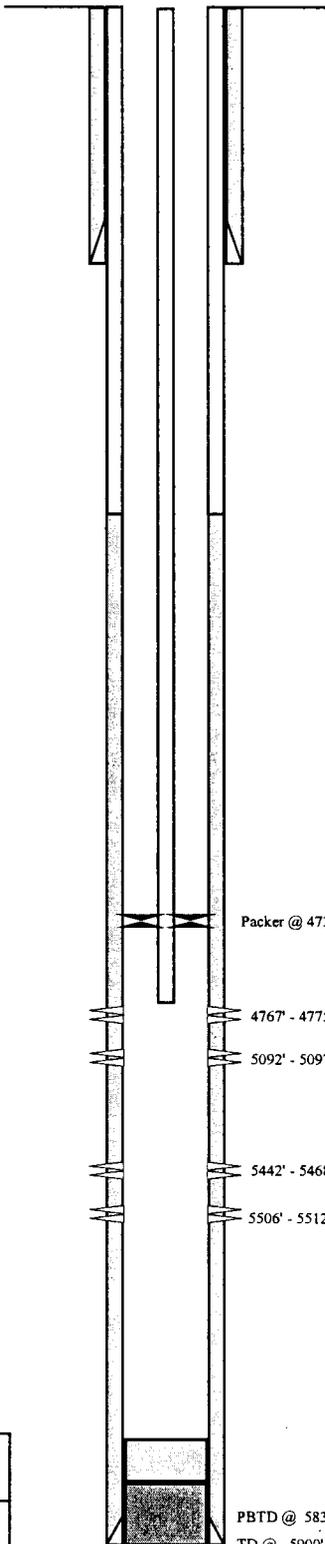
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts. (5888.07')  
DEPTH LANDED: 5883' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 150 sxs Hifill standard & 470 sxs 50/50 POZ.  
CEMENT TOP AT: 1130' per CBL

## TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 153 jts  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4745' KB  
PACKER: 4750' KB  
TOTAL STRING LENGTH: EOT @ 4755' KB

## Proposed Injection

### Wellbore Diagram



## FRAC JOB

8/02/93	5442'-5512'	<b>Frac zone as follows:</b> 29,000# 20/40 sand + 15,500# 16/30 sand in 448 bbls 2% KCl frac fluid. Treated @ avg press of 2022 psi w/avg rate of 32.2 BPM. ISIP 1370 psi. Calc flush: 5442 gal. Actual flush: 5250 gal.
8/5/93	4767'-5097'	<b>Frac zone as follows:</b> 25,500# 16/30 sand in 317 bbls 2% KCl frac fluid. Treated @ avg press of 2800 psi w/avg rate of 15.5 BPM. ISIP 2000 psi. Calc flush: 4767 gal. Actual flush: 4746 gal.
7/27/99		Tubing leak. Update rod and tubing details.

## PERFORATION RECORD

7/30/93	5506'-5512'	1 JSPF	04 holes
7/30/93	5442'-5468'	1 JSPF	14 holes
8/04/93	5092'-5'97	1 JSPF	04 holes
8/04/93	4767'-4775'	1 JSPF	06 holes



**Inland Resources Inc.**

**Balcron Fed. #24-3Y-9-17**

562' FSL & 1887' FWL

SE/SW Section 3-T9S-R17E

Duchesne Co, Utah

API #43-013-31397; Lease #UTU-75037

## WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Balcron Federal #24-3Y-9-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, BlackJack Unit.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. In the Balcron Federal #24-3Y-9-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (3911' - 5816'). We may add additional perms to those already existing; any additional perms will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 3911' and the Castle Peak top at 5400'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Balcron Federal #24-3Y-9-17 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-75037) in the Monument Butte (Green River) Field, BlackJack Unit, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 **Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 259' GL, and 5-1/2" 15.5# J-55 casing run from surface to 5883' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1358 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Balcron Federal #24-3Y-9-17, for existing perforations (4767' - 5512') calculates at 0.68 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1358 psig. At the time of conversion, we may add additional perforations between 3911' and 5950', and will detail the work performed in a Sundry Notice. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Balcron Federal #24-3Y-9-17, the proposed injection zone (3911' - 5816') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-6.

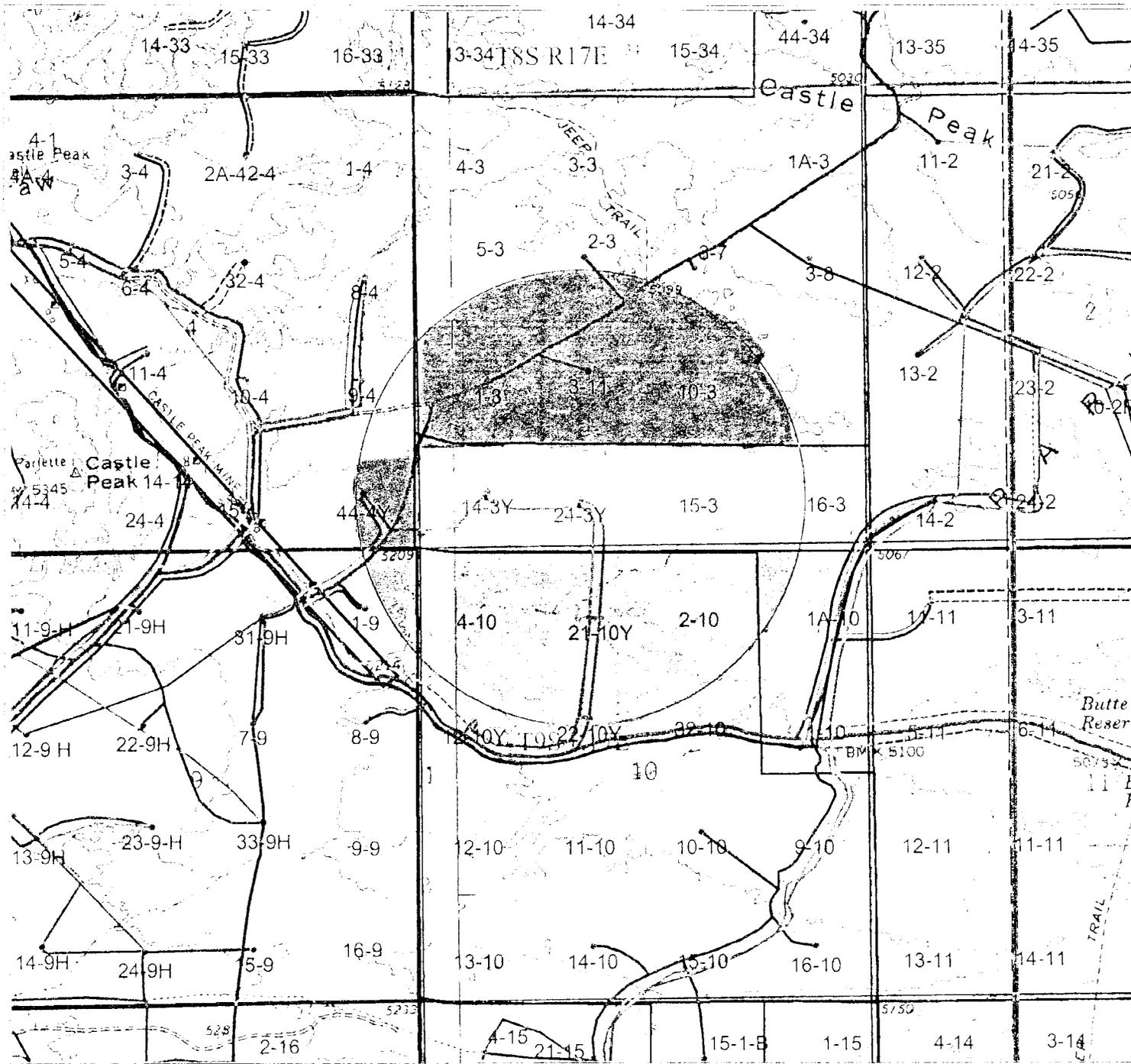
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Inland Production Company will supply any requested information to the Board or Division.



- WELLS**
- INJ
  - WTR UTR-75037
  - SWD UTR-65210
  - OIL
  - GAS
  - DRY UTR-75078
  - SHUTIN
  - SUSPENDED
  - ABND
  - LOC
- Water Source**
- Water Source 6" U-13043
  - Water Source 4"
  - Water 4" High Pressure
  - Water HP 2" to 3"
  - Proposed High Pressure Water
  - Water 3" High Pressure
  - Water Return
- Other Infrastructure**
- ▨ Petrolyst
  - ▨ Questar UTR-75038
  - ▨ Johnson Water
  - ▭ Mining Tract
- Gathering Lines**
- 2"
  - 3"
  - 4" UTR-65967
  - 6"
  - 8"
  - 10" U-61252
  - Proposed
  - Paved
  - Dirt
  - Proposed
  - Two Track
  - Private

Attachment A  
 Balcon Fed. 24-3Y-9-17  
 Sec 3, T9S-R17E

**Ward** 4101 S Street Suite 100  
 Denver, Colorado 80222  
 Phone: (303) 833-0102

1/2 Mile Radius Map  
 CLINE BASIN UTAH  
 Duchesne & Uinta Counties Utah

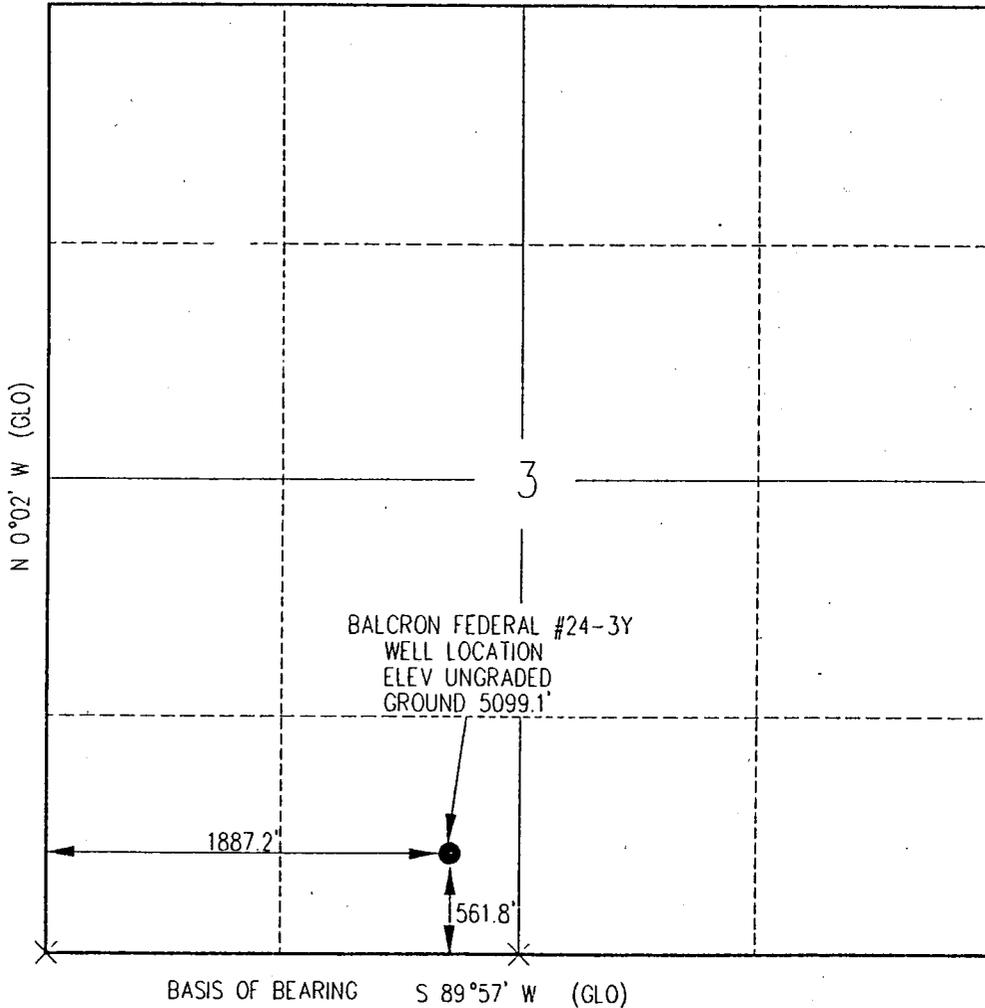
November 27, 2002

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

N 89°58' E (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #24-3Y,  
LOCATED AS SHOWN IN THE SE 1/4 SW 1/4  
OF SECTION 3, T9S, R17E, S.L.B. & M,  
DUCHESNE COUNTY UTAH.



Attachment A-1

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.

NO. 35 Stewart  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 3154  
 STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING  
 38 EAST 100 NORTH, VERNAL, UTAH 84078  
 (801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/29/93	WEATHER: CLEAR & WARM
NOTES:	FILE # 24-3Y

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

EXHIBIT "G"

## EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1.	<u>Township 9 South, Range 17 East</u> Section 3: S/2S/2 Section 25: S/2S/2 Section 28: All Section 29: SE/4SW/4 Section 31: Lots 2-4, E/2SW/4, W/2SE/4	UTU-75037 HBP	Inland Production Company Yates Petroleum Corporation	(Surface Rights) USA
2.	<u>Township 9 South, Range 17 East</u> Section 9: Lots 1,2,3	UTU-75078 HBP	Inland Production Company	(Surface Rights) USA
3.	<u>Township 9 South, Range 17 East</u> Section 10: W/2NE/4, NW/4 Section 11: N/2 Section 24: All Section 31: SE/4SE/4	UTU-65210 HBP	Inland Production Company Yates Petroleum Corporation Abo Petroleum Corporation Yates Drilling Company Myco Industries	(Surface Rights) USA
4.	<u>Township 9 South, Range 17 East</u> Section 10: E/2NE/4	U-18043 HBP	Cochrane Resources G. W. McDonald	(Surface Rights) USA

EXHIBIT B

Page 2

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
5.	<u>Township 9 South, Range 17 East</u> Section 4: SE/4SE/4	UTU-65967 HBP	Inland Production Company Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc.	(Surface Rights) USA
6.	<u>Township 9 South, Range 17 East</u> Section 4: Lots 1-12, S/2NE/4, SE/4NW/4, N/2SE/4	UTU-75038 HBP	Inland Production Company	(Surface Rights)
7.	<u>Township 9 South, Range 17 East</u> Section 3: Lots 2-4, S/2N/2	UTU-61252 HBP	El Paso Production Oil & Gas Company	(Surface Rights) USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Balcron Federal #24-3Y-9-17

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: David Gerbig  
Inland Production Company  
David Gerbig  
Operations Engineer

Sworn to and subscribed before me this 20 day of February, 2003.

Notary Public in and for the State of Colorado: Deke [Signature]

My Commission Expires: 8/29/05

Balcron Federal #24-3Y-9-17

Initial Production: 42 BOPD,  
NM MCFD, 2 BWPD

Spud: 7/10/93  
Put on Production: 8/26/93  
GL: 5042' KB: 5052'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 6 jts. (249.7')  
DEPTH LANDED: 258.7' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts. (5888.07')  
DEPTH LANDED: 5883' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 150 sxs Hifill standard & 470 sxs 50/50 POZ.  
CEMENT TOP AT: 1130' per CBL.

**TUBING RECORD**

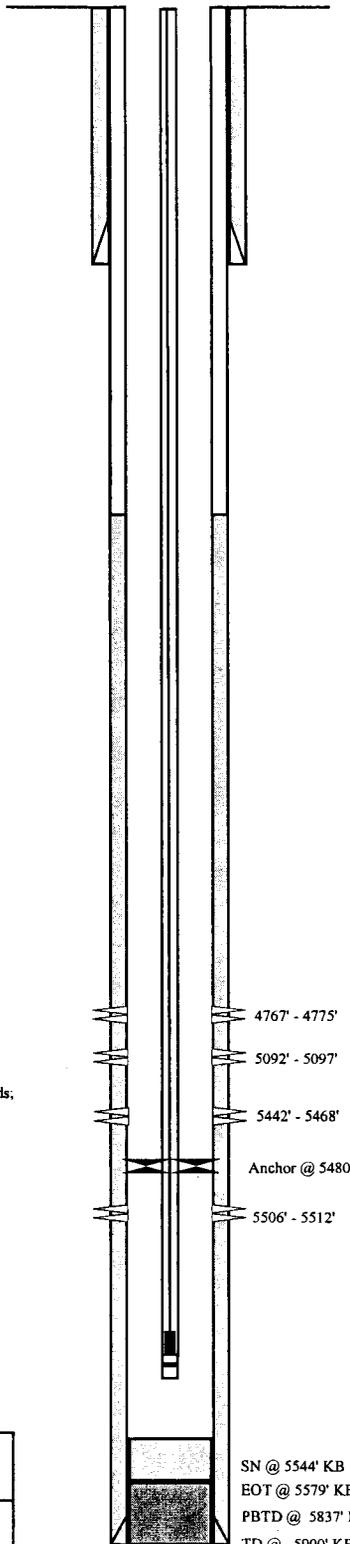
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 176 jts  
TUBING ANCHOR: 5480' KB  
NO. OF JOINTS: 2 jts  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5545' KB  
NO. OF JOINTS: 1 jts  
TOTAL STRING LENGTH: EOT @ 5577' KB

**SUCKER ROD RECORD**

POLISHED ROD: 1-1/4" x 16' SM  
SUCKER RODS: 1- 1 1/2" x 8' Wt rod, 4- 1" scraper rods; 8- 3/4" scraper rods;  
208- 3/4" slick rods, 1- 2' x 3/4" pony rod.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: 65"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

8/02/93	5442'-5512'	<b>Frac zone as follows:</b> 29,000# 20/40 sand + 15,500# 16/30 sand in 448 bbls 2% KCl frac fluid. Treated @ avg press of 2022 psi w/avg rate of 32.2 BPM. ISIP 1370 psi. Calc flush: 5442 gal. Actual flush: 5250 gal.
8/5/93	4767'-5097'	<b>Frac zone as follows:</b> 25,500# 16/30 sand in 317 bbls 2% KCl frac fluid. Treated @ avg press of 2800 psi w/avg rate of 15.5 BPM. ISIP 2000 psi. Calc flush: 4767 gal. Actual flush: 4746 gal.
7/27/99		Tubing leak. Update rod and tubing details.



**PERFORATION RECORD**

7/30/93	5506'-5512'	1 JSPF	04 holes
7/30/93	5442'-5468'	1 JSPF	14 holes
8/04/93	5092'-5'97'	1 JSPF	04 holes
8/04/93	4767'-4775'	1 JSPF	06 holes

**Inland Resources Inc.**  
Balcron Fed. #24-3Y-9-17  
562' FSL & 1887' FWL  
SE/SW Section 3-T9S-R17E  
Duchesne Co, Utah  
API #43-013-31397; Lease #UTU-75037

# Riviera Federal #3-11

Spud Date: 4/29/97  
 Put on Production: 6/21/97  
 GL: KB: 5133'

Initial Production: 110 BOPD,  
 50 MCFPD, 5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE:  
 WEIGHT:  
 LENGTH:  
 DEPTH LANDED: 297'  
 HOLE SIZE:  
 CEMENT DATA: 200 sxs cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE:  
 WEIGHT:  
 LENGTH:  
 DEPTH LANDED: 5737'  
 HOLE SIZE:  
 CEMENT DATA: 580 sks  
 CEMENT TOP AT:

TUBING

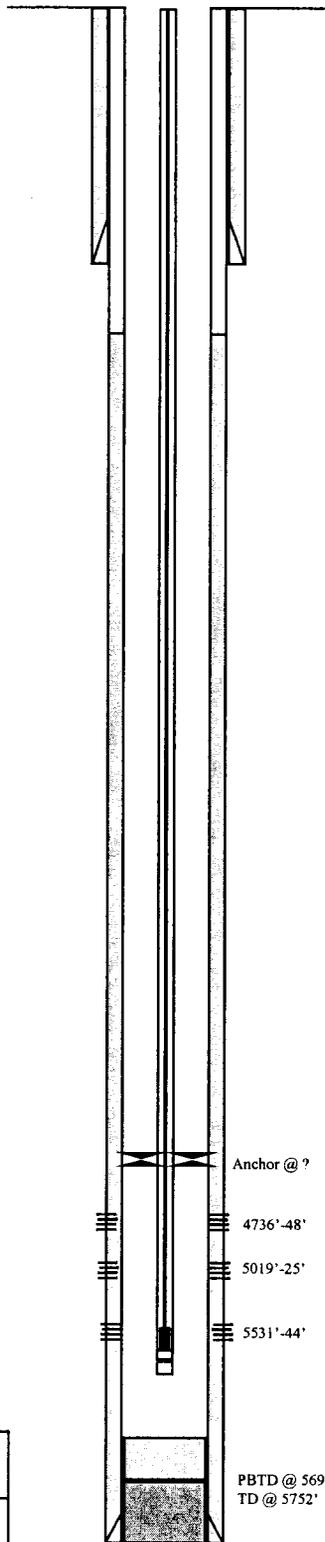
SIZE/GRADE/WT.: 2-7/8"  
 NO. OF JOINTS: ? 5568'  
 TUBING ANCHOR:  
 SEATING NIPPLE:  
 TOTAL STRING LENGTH:  
 SN LANDED AT:

SUCKER RODS

POLISHED ROD:  
 SUCKER RODS:  
 TOTAL ROD STRING LENGTH:  
 PUMP NUMBER:  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 LOGS: DIGL/SP/GR/CAL  
 SDL/DSN/GR

FRAC JOB

SWFR (5531'-5544')	384 bbls 72,500 lbs sand, 20/40 sd x-link gelled water.
SWFR (5019'-5025')	277 bbls 35,500 lbs sand, 20/40 sd x-link gelled water.
SWFR (4736'-4748')	346 bbls 60,000 lbs sand, 20/40 sd x-link gelled water.



PERFORATION RECORD

	<b>Inland Resources Inc.</b>
	<b>Riviera Federal #3-11</b>
	2050 FSL 2008 FWL
	NESW Section 3-T9S-R17E
	Duchesne Co, Utah
	API #43-013-31764

# Monument Butte Federal #1-3

Spud Date: 3/10/82  
 Put on Production: 4/22/82  
 GL: 5156' KB: 5171'

Initial Production: 90 BOPD, ?  
 MCFPD, 15 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE:  
 WEIGHT:  
 LENGTH:  
 DEPTH LANDED: 312'  
 HOLE SIZE:  
 CEMENT DATA: 225 sxs cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE:  
 WEIGHT:  
 LENGTH:  
 DEPTH LANDED: 6212'  
 HOLE SIZE:  
 CEMENT DATA: 955 sks  
 CEMENT TOP AT:

TUBING

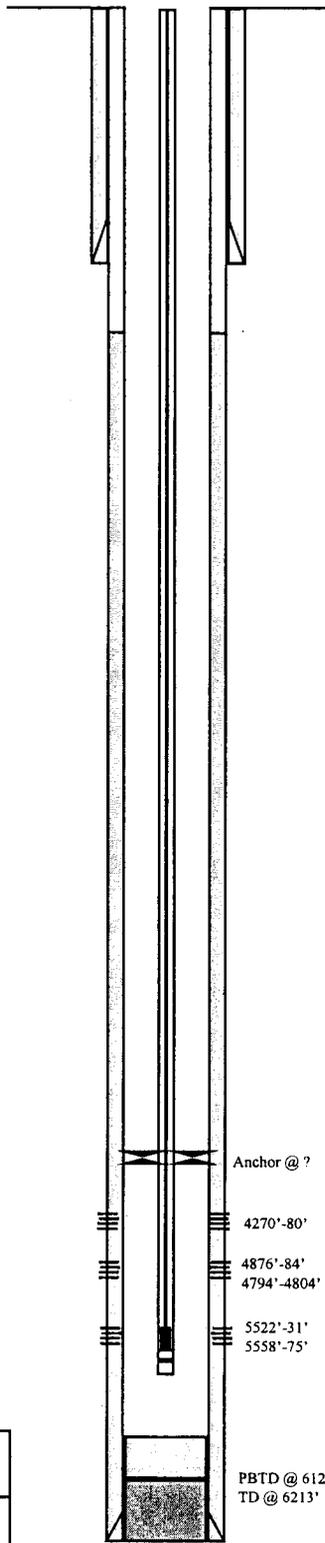
SIZE/GRADE/WT.: 2-7/8"  
 NO. OF JOINTS: ? 4995'  
 TUBING ANCHOR:  
 SEATING NIPPLE:  
 TOTAL STRING LENGTH:  
 SN LANDED AT:

SUCKER RODS

POLISHED ROD:  
 SUCKER RODS:  
 TOTAL ROD STRING LENGTH:  
 PUMP NUMBER:  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 LOGS: DIGL/SP/GR/CAL  
 SDL/DSN/GR

FRAC JOB

SWFR (5558'-5575') 18 holes - acid w/3500 gal WFC-1 acid  
 SWFR (5522'-5531') 10 holes - frac w/9000 gal Diesel pad  
 36,000# 20/40 sand 12,000# 10/20 sand  
 SWFR (4794'-4884') 1 SPF - frac w 27,000 gal frac fluid  
 36,000# 20/40 sand 12,000# 10/20 sand.  
 SWFR (4270'-4280') 1 SPF - bk down w/1100 gal diesel- frac  
 w/10,102 gal diesel 16,000# 20/40 sand  
 6400# 10/20 sand



PERFORATION RECORD

*This well is operated by Wildrose Resources*

	<b>Inland Resources Inc.</b>
	<b>Monument Butte Federal #1-3</b>
	1954 FSL 816 FWL
	NWSW Section 3-T9S-R17E
	Duchesne Co, Utah
API #43-013-30642 Lease #UTU-79017	

# Balcron Monument Fed. #14-3Y-9-17

Spud Date: 11/21/94  
 Put on Production: 12/15/95  
 GL: 5170' KB: 5179'

Initial Production: 75 BOPD,  
 NM MCFD, 2 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (248.05')  
 DEPTH LANDED: 304.55'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 132 jts. (5713')  
 DEPTH LANDED: 5723.00'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250 sxs Super "G" & 330 sxs 50/50 POZ.  
 CEMENT TOP AT: 1390 per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 176 jts (5460.17')  
 TUBING ANCHOR: 5469.17'  
 NO. OF JOINTS: 2 jts (59.35')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5531.32' KB  
 NO. OF JOINTS: 2 jts (63.92')  
 TOTAL STRING LENGTH: EOT @ 5596.79'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22' SM  
 SUCKER RODS: 6-1 1/2" weight bars, 12-3/4" scraped rods, 102-3/4" plain rods, 20-3/4" scraped rods, 80-7/8" scraped rods, 1-6', 1-2' x 7/8" pony rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 84"  
 PUMP SPEED, SPM: 3.5 SPM  
 LOGS: DIGL/SP/GR/CAL SN @ 5531'

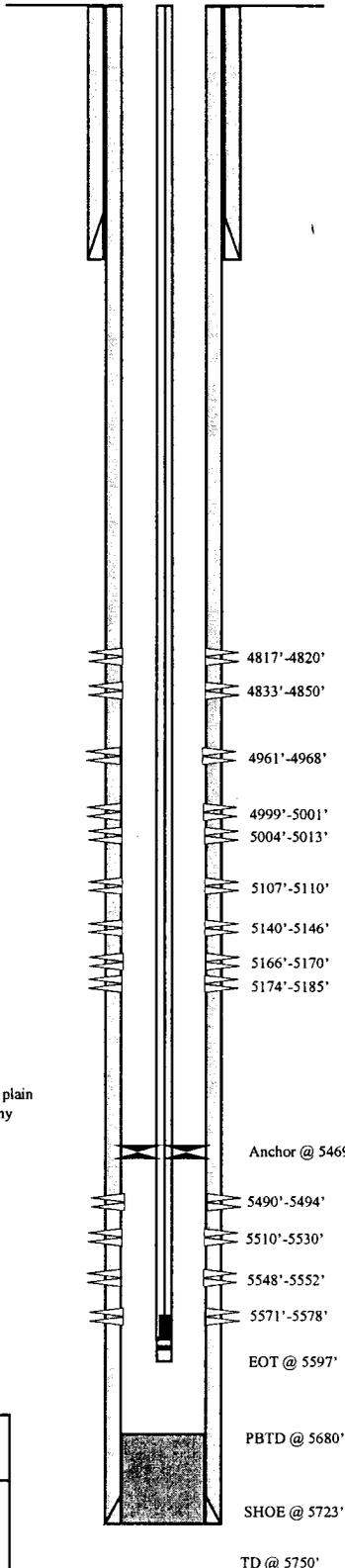
**FRAC JOB**

11/28/95 5107'-5185' **Frac zone as follows:**  
 48,900# 20/40 sand + 63,580# 16/30 sand in 670 bbls 2% KCl. Treated @ avg press of 2100 psi w/avg rate of 30.1 BPM. ISIP 2100 psi. Calc. flush: 5107 gal. Actual flush: 5040 gal.

11/30/95 4961'-5013' **Frac zone as follows:**  
 32,760# 20/40 sand + 52,700# 16/30 sand in 552 bbls 2% KCl. Treated @ avg press of 2450 psi w/avg rate of 31.7 BPM. ISIP 2900 psi. Calc. flush: 4961 gal. Actual flush: 4956 gal.

12/05/95 4817'-4850' **Frac zone as follows:**  
 54,040# 16/30 sand in 429 bbls 2% KCl. Treated @ avg press of 3000 psi w/avg rate of 33.5 BPM. ISIP 4600 psi. Calc. flush: 4817 gal. Actual flush: 4746 gal.

11/21/02 5490'-5578' **Frac CP1 and CP2 sands as follows:**  
 97,820@ 20/40 sand in 615 bbls Viking I-25 fluid. Treated @ avg. pressure of 4480 psi w/avg. rate of 20.5 BPM. ISIP-1510 psi. Calc. flush: 1451 gals. Actual flush: 1344 gals.



**PERFORATION RECORD**

Date	Depth Range	Number of Holes	Perforation Type
11/27/95	5174'-5185'	44	JSPF
11/27/95	5166'-5170'	16	JSPF
11/27/95	5140'-5146'	24	JSPF
11/27/95	5107'-5110'	12	JSPF
11/30/95	5004'-5013'	36	JSPF
11/30/95	4999'-5001'	08	JSPF
11/30/95	4961'-4968'	28	JSPF
12/04/95	4833'-4850'	68	JSPF
12/04/95	4817'-4820'	12	JSPF
11/20/02	5571'-5578'	28	JSPF
11/20/02	5548'-5552'	16	JSPF
11/20/02	5510'-5530'	80	JSPF
11/20/02	5490'-5494'	16	JSPF



**Inland Resources Inc.**

**Balcron Monument Fed. #14-3Y-9-17**

671' FSL & 792' FWL  
 SWSW Section 3-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31535; Lease #U-75037

# Balcron Federal #44-4Y-9-17

Spud Date: 9/30/94  
 Put on Production: 12/13/94  
 Put on Injection: 5/04/01  
 GL: 5201.5' KB: 5211.5'

Initial Production: 20 BOPD,  
 NM MCFPD, 0 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (260.15')  
 DEPTH LANDED: 267' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G", est 10 Bbls cmt to surface

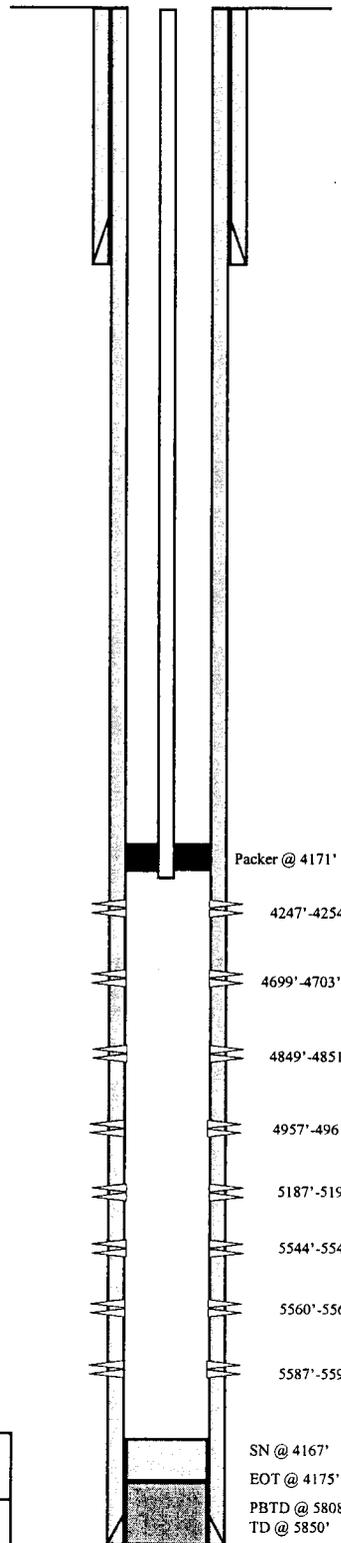
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5849.63')  
 DEPTH LANDED: 5846.63' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 261 sxs Super "G" cement & 316 sx 50/50 Poz.  
 CEMENT TOP AT: ? Per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 133 jts. (4156.78')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4167.88' KB  
 PACKER: 4171.08' KB  
 TOTAL STRING LENGTH: EOT @ 4175.25' KB

### Injection Wellbore Diagram



### FRAC JOB

Date	Interval	Description
11/23/94	5544'-5593'	<b>Frac sand as follows:</b> 51,680# 20/40, and 40,540# 16/30 sand in 728 bbls 2% KCL gelled water. Treated w/avg press of 1900 psi w/avg rate of 30.4 BPM. ISIP-1580 psi. Calc. flush: 5544 gal. Actual flush 5544 gal.
11/29/94	5187'-5192'	<b>Frac sand as follows:</b> 21,340# 20/40 sand + 2100# 16-30 sand in 261 bbls. 2% KCL gelled water. Treated w/avg press of 3800 psi w/avg rate of 26 BPM. Screened out. Calc. flush: 5187 gal. Actual flush 3276 gal.
12/1/94	4247'-4254'	<b>Frac sand as follows:</b> 45,700# 16/30 sand in 368 bbls. 2% KCL gelled water Treated w/avg press of 2400 psi w avg rate of 31.5 BPM. ISIP-1880 psi. Calc. flush: 4246 gal. Actual flush 3256 gal.
3/9/01	4,699'-4,703'	<b>Break down with 2 bbls 15%</b>
3/9/01	4,849'-4,851'	<b>HCL per interval for work done on 3/9/01.</b>
3/9/01	4,958'-4,962'	<b>HCL per interval for work done on 3/9/01.</b>
3/15/01		<b>Convert to injector.</b>

### PERFORATION RECORD

Date	Interval	Tool	Holes
11-22-94	5544'-5448'	4 JSPP	16 holes
11-22-94	5560'-5564'	4 JSPP	16 holes
11-22-94	5587'-5593'	4 JSPP	24 holes
11-28-94	5187'-5192'	4 JSPP	20 holes
11-30-94	4247'-4254'	4 JSPP	32 holes
03-09-01	4699'-4703'	4 JSPP	16 holes
03-09-01	4848'-4850'	4 JSPP	8 holes
03-09-01	4957'-4961'	4 JSPP	16 holes



**Inland Resources Inc.**

**Balcron Federal #44-4Y-9-17**

660 FSL & 660 FEL  
 SESE Section 4-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31452; Lease #U-65967

# Balcron Monument Federal #21-10-9-17Y

Spud Date: 11-21-95  
 Put on Production: 12-22-95  
 GL: 5097' KB: ?

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 155 jts. (5339.62')  
 TUBING ANCHOR: 5349.62' KB  
 NO. OF JOINTS: 1 jts. (31.37')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5383.79' KB  
 NO. OF JOINTS: 2 jt. (62.85')  
 TOTAL STRING LENGTH: EOT @ 5448.19' KB

**SUCKER RODS**

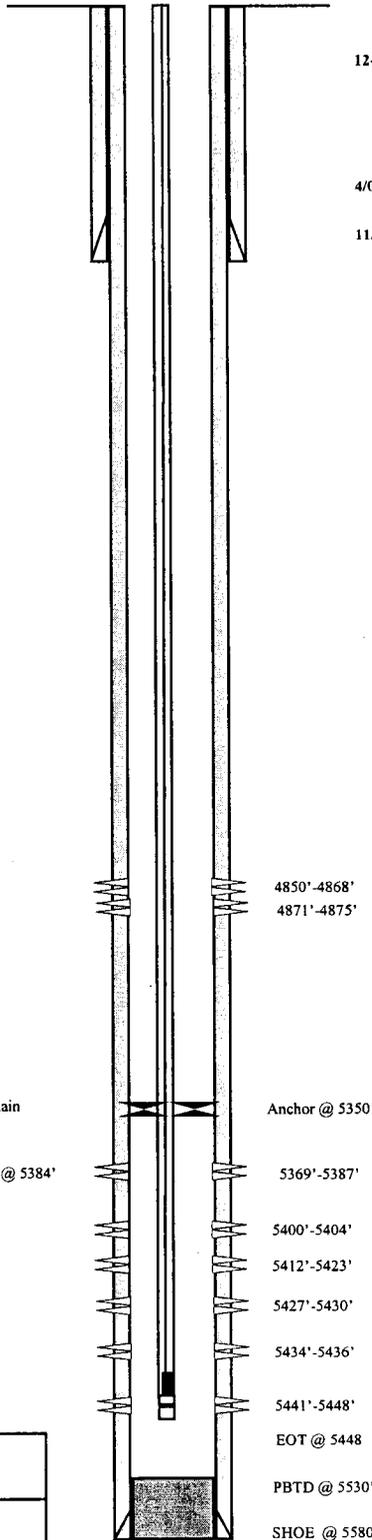
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraper rods; 109-3/4" plain rods, 89-3/4" scraper rods, 1-4", 1-8" x 3/4" pony rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4 SPM  
 LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

12-7-95 4850'-4875' **Frac sand as follows:**  
 27,594 gals 2% KCL gelled water and 102,070# 16/30 sand. Perfs broke @ 2640 psi. Treated w/avg press of 2400 psi w/avg rate of 31.4 BPM. ISIP-2320 psi, 5 min 2010 psi.  
 4/01/02 **Pump change:**  
 Update rod and tubing details.  
 11/06/02 5369'-5448' **Frac new CP1/CP2 sands as follows:**  
 110,500# 20/40 sand in 852 bbls Viking I-25 fluid. Treated @ avg pressure of 3297 psi with avg rate of 19.9 BPM. ISIP-1370 psi. Calc. Flush: 1409 Actual Flush: 1302

**PERFORATION RECORD**

Date	Interval	Tool	Holes
12-6-95	4850'-4868'	4 JSPF	72 holes
12-6-95	4871'-4875'	4 JSPF	16 holes
11-5-02	5369'-5387'	4 JSPF	72 holes
11-5-02	5400'-5404'	4 JSPF	16 holes
11-5-02	5412'-5423'	4 JSPF	44 holes
11-5-02	5427'-5430'	4 JSPF	12 holes
11-5-02	5434'-5436'	4 JSPF	8 holes
11-5-02	5441'-5448'	4 JSPF	28 holes





**Inland Resources Inc.**  
**Balcron Monument Federal #21-10-9-17Y**  
 807 FNL & 2120 FWL  
 NENW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #U-65210

# Balcron Federal #22-10Y-9-17

Spud Date: 7-25-93  
 Put on Production: 8-30-93  
 GL: 5121' KB: 5131'

Initial Production: 87 BOPD,  
 25 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 254.85  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sx Premium, est 7-8 bbis cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5824')  
 DEPTH LANDED: 5820'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 154 sx Thrifty-Lite & 258 sx 50/50 Poz  
 CEMENT TOP AT: 2450' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 174 jts. (5437.77')  
 TUBING ANCHOR: 5450.55'  
 NO. OF JOINTS: 1 jt. (31.54')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5483.10'  
 NO. OF JOINTS: 1 jt. (31.30')  
 TOTAL STRING LENGTH: EOT @ 5515.84'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 16'  
 SUCKER RODS: 4-1 1/2" weight bars, 10-3/4" scraper rods, 115-3/4" slick rods, 90-3/4" scraper rods, 1-3/4" slick rod, 1-2' x 3/4" pony rod.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 5 SPM  
 LOGS:

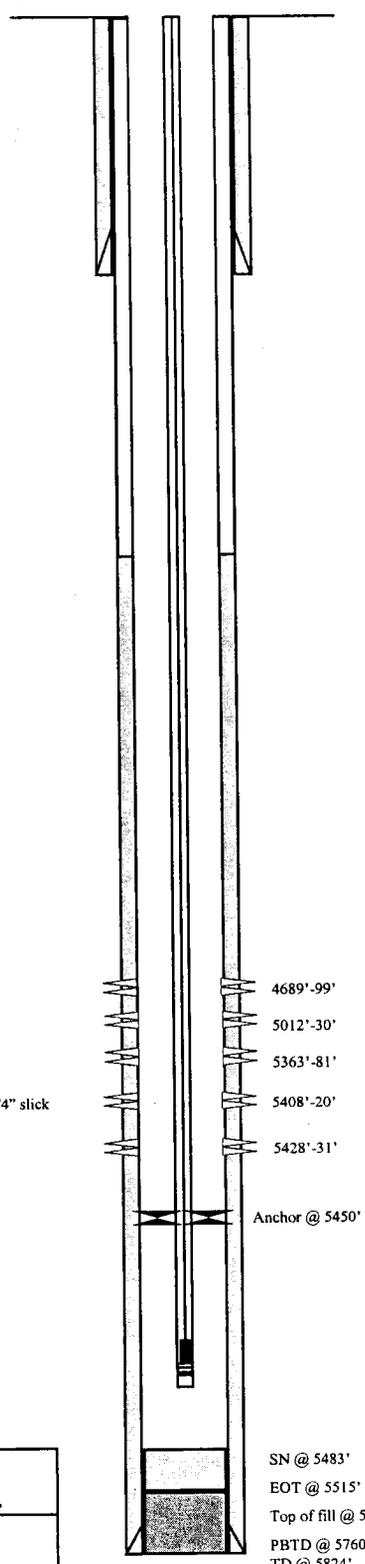
**FRAC JOB**

8-13-93 5363'-5431' **Frac sand as follows:**  
 14,112 gals Viking, 26,160# 20/40, and 23,140# 16/30 sand. Perfs broke @ 2800 psi. Treated w/avg press of 1400 psi w/avg rate of 26.4 BPM. ISIP-1450 psi, 5 min 1290 psi.

8-17-93 5012'-5030' **Frac sand as follows:**  
 13,230 gals Viking, 24,440# 20/40, and 21,100# 16/30 sand. Perfs broke @ 2400 psi. Treated w/avg press of 2350 psi w/avg rate of 26 BPM. ISIP-2350 psi, 5 min 2180 psi.

8-17-93 4689'-4699' **Frac sand as follows:**  
 8232 gals Viking and 26,000# 16/30 sand. Perfs broke @ 2100 psi. Treated w/avg press of 2200 psi w/avg rate of 20.6 BPM. ISIP-1990 psi, 5 min 1730 psi.

12/21/01 Tubing leak. Update rod and tubing details.



**PERFORATION RECORD**

Date	Depth Range	Perforation Type	Holes
8-10-93	5428'-5431'		02 holes
8-10-93	5408'-5420'		06 holes
8-10-93	5363'-5381'		07 holes
8-15-93	5012'-5030'	2 JSPF	36 holes
8-17-93	4689'-4699'	2 JSPF	20 holes



**Inland Resources Inc.**

**Balcron Federal #22-10Y-9-17**

1980 FNL & 1980 FWL

SE/NW Section 10-T9S-R17E

Duchesne Co, Utah

API #43-013-31395; Lease #U-65210

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: JWL, PIS #2

Lab Test No: 2002403193      Sample Date: 10/14/2002  
Specific Gravity: 1.002  
TDS: 554  
pH: 7.50

Cations:	mg/L	as:
Calcium	64	(Ca <sup>++</sup> )
Magnesium	39	(Mg <sup>++</sup> )
Sodium	46	(Na <sup>+</sup> )
Iron	0.20	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	244	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	90	(SO <sub>4</sub> <sup>-</sup> )
Chloride	71	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: Federal, 24-3Y-9-17

Lab Test No:	2002403644	Sample Date:	11/27/2002
Specific Gravity:	1.005		
TDS:	6153		
pH:	8.40		

Cations:	mg/L	as:
Calcium	40.00	(Ca <sup>++</sup> )
Magnesium	24.00	(Mg <sup>++</sup> )
Sodium	2300	(Na <sup>+</sup> )
Iron	5.00	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	244	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>-</sup> )
Chloride	3540	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

DownHole SAT(tm)  
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) Johnson Water

2) Fed 24-3Y-9-17

Report Date: 12-02-2002

SATURATION LEVEL	
Calcite (CaCO3)	4.36
Aragonite (CaCO3)	3.65
Anhydrite (CaSO4)	0.00566
Gypsum (CaSO4*2H2O)	0.00553
Barite (BaSO4)	0.00
Hydroxyapatite	0.00
Iron hydroxide (Fe(OH)3)	7632
Siderite (FeCO3)	442.23
Iron sulfide (FeS)	0.00

MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	1.59
Aragonite (CaCO3)	1.49
Witherite (BaCO3)	-6.29
Strontianite (SrCO3)	-2.10
Anhydrite (CaSO4)	-385.08
Gypsum (CaSO4*2H2O)	-440.51
Barite (BaSO4)	-0.407
Hydroxyapatite	-243.48
Iron hydroxide (Fe(OH)3)	< 0.001
Siderite (FeCO3)	1.45
Iron sulfide (FeS)	-0.00458

SIMPLE INDICES	
Langelier	0.753
Stiff Davis Index	0.789

BOUND IONS	TOTAL	FREE
Calcium	52.06	44.44
Barium	0.00	0.00
Carbonate	11.90	3.59
Phosphate	0.00	0.00
Sulfate	45.00	38.53

OPERATING CONDITIONS

Temperature (°F)	120.00
Time (mins)	3.00

UNICHEM - Corporate Office  
14505 Torrey Chase Boulevard, Houston, Texas 77014

**Attachment "G"**

**Balcron Federal 24-3Y-9-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5442	5512	5477	1370	0.68	1358
5755	5848	5802	2000	0.78	1988
				<b>Minimum</b>	<u>1358</u>

Calculation of Maximum Surface Injection Pressure  
 $P_{max} = (\text{Frac Grad} - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.005.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

BALCRON OIL COMPANY

Completion/Workover Report

Well Balcron Red, 24-3N Sec 3 Twp 9S Rng 17E Co. Duchesne State Utah  
 TD 5900' PBD 5337' KB 10' GL 5100' Casing: Size 5 1/2" Ht. Range - #/Ft. 15.5 - Depth 5337'  
 TOC \_\_\_\_\_ Perfs/Open Hole 5442-68, 5506-12  
 Present Operation Y

Details 0600: Cas. PSIG. 20, RU western to frac well w/ 2% KCh

0858: pull test surface Equipment to 4000 PSIG. OK.

1002: start frac, pumped 110 Bow @ Max. PSI 2120

START SAND	BPM	PSI
1006: 2 # 20/40	34.1	2120
1007: 3 # "	34.	2100
1008: 4 # "	33.2	2120
1009: 5 # "	32.5	2050
1010: 6 # "	33.2	2000
1012: 6 # 16/30	32.8	1920
1013: 7 # "	32.8	1850

1014: FLUSH 125 Bow @ Max. PSI 2180 34.8 BPM

1018: ISIP. 1370 PSIG, 5 MIN. 1210 10 MIN. 1130 15 MIN. 1090

1035: RD western @ 1370 PSIG @ 10 MIN. 1130 @ 15 MIN. 1090  
~~1035: RD western @ 1370 PSIG @ 10 MIN. 1130 @ 15 MIN. 1090~~  
~~1035: RD western @ 1370 PSIG @ 10 MIN. 1130 @ 15 MIN. 1090~~

1200: SDFD

448 Bow Load + 18 Bow Load FROM BREAKDOWN = 466 BBL. OF LOAD TO RECOVER (Over)

Costs	Intangible		Tangible	
	Daily	Cumulative	Daily	Cumulative
Location Restoration			Production Casing/Liners	
Facility - Surface Settlements			Tubing	
Completion Rig	693		Packers, Retainers	
Bits			Wellhead Equipment	
Equipment Rental	205		Valves, Fitting, Line Pipe	
Completion Fluids - Water, etc.			Separator	
Logging/Perforating			Heater/Treater	
Stimulation western	3168		Tanks	
Cementing			Buildings	
Transportation			Pumping Units - Beam, Hydraulic	
Contract Labor			Sucker Rods	
Supervision (Eng./Geol.)			Downhole Pump	
Various other	205		Miscellaneous	

TOC \_\_\_\_\_ CCC \_\_\_\_\_ CDC \_\_\_\_\_ CHC \_\_\_\_\_ Temp./Weather \_\_\_\_\_

Operations Supervisor Dale Griffin Report Taken By pop

Well Balcron Fed. 24-3Y Sec 3 Twp 9S Rng 17E Cr Decheane State Utah  
 TD 5900 PBTD 5637 KB 10 GL 5100 Casing: Size 5 1/2 Ht. Range - 1/Fl. 15.5 - Depth 5887  
 TOC \_\_\_\_\_ Perfs/Open Hole 4767-75, 5042-97, 5442-68, 5506-12  
 Present Operation \_\_\_\_\_

Details 0700: TOOH w/ log & pbt. & ~~run~~ Run western & prepare to  
proc. stage 2. prest. test surface Equip. 4000 - OK  
0856: START FRAC, PAD. 93 BOW @ 2750 PSI MAX  
use 2% KCL water

<del>0855</del> START SAND	PSI MAX	RATE BPM	BOS
0855; 2 #	2800	16.7	13
0856; 3 #	2800	16.5	14
0857; 4 #	2990	13.5	20
0858; 5 #	2870	13.5	35
0901; 6 #	2780	13.7	<del>35</del> 26
7 #			
09031 FLUSH	2950	23.7	113
0904; ISIP	2000	5 MIN, 1850	10 MIN, 1800
1000; SWIFD			15 MIN, 1770

LOAD TO RECOVER ON UPPER PERFS. 294 BOW  
TOTAL. LOAD TO RECOVER ON WELL 694 BOW (Over)

Costs	Intangible		Tangible	
	Daily	Cumulative	Daily	Cumulative
Location Restoration			Production Casing/Liners	
Facility - Surface Settlements			Tubing	
Completion Rig	451		Packers, Retainers	
Bits			Wellhead Equipment	
Equipment Rental	240		Valves, Fitting, Line Pipe	
Completion Fluids - Water, etc.			Separator	
Logging/Perforating			Heater/Treater	
Stimulation <u>western</u>	14707		Tanks	
Cementing			Buildings	
Transportation			Pumping Units - Beam, Hydraulic	
Contract Labor			Sucker Rods	
Supervision (Eng./Geol.)			Downhole Pump	
Various <u>notional</u>			Miscellaneous	

TDC \_\_\_\_\_ CCC \_\_\_\_\_ CDC \_\_\_\_\_ CHC \_\_\_\_\_ Temp./Weather \_\_\_\_\_

Operations Supervisor Dale Griffin Report Taken By fox

431  
884

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4675'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. RU perforators and perforate with 4 shots at 309'.
5. Plug #3 Circulate 97 sx Class G cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus from 309' to surface.

The approximate cost to plug and abandon this well is \$33,025.

# Balcron Federal #24-3Y-9-17

Spud: 7/10/93  
 Put on Production: 8/26/93  
 GL: 5042' KB: 5052'

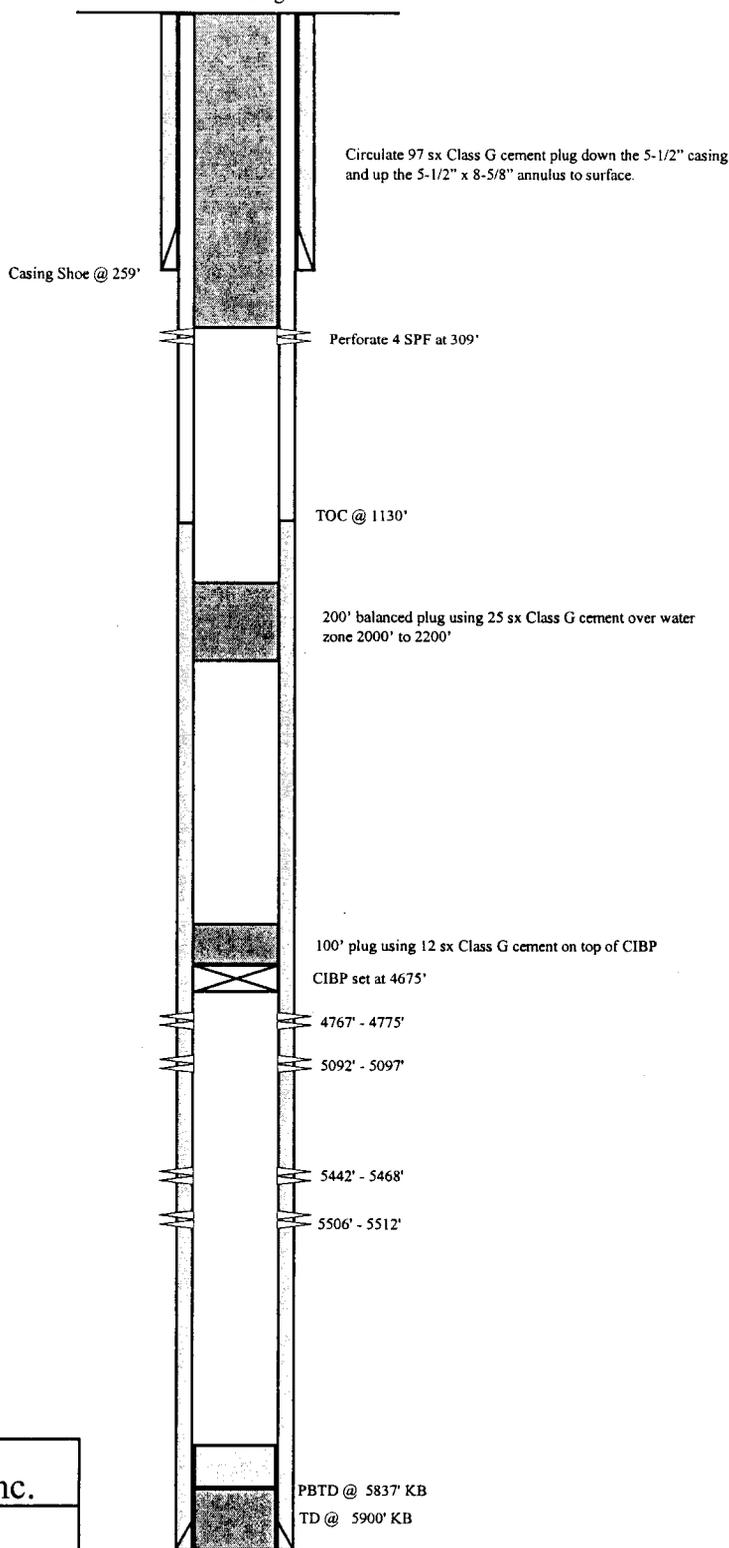
**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (249.7')  
 DEPTH LANDED: 258.7' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (5888.07')  
 DEPTH LANDED: 5883' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 150 sxs Hifill standard & 470 sxs 50/50 POZ.  
 CEMENT TOP AT: 1130' per CBL

Proposed P&A  
 Wellbore Diagram



	<b>Inland Resources Inc.</b>
	<b>Balcron Fed. #24-3Y-9-17</b> 562' FSL & 1887' FWL SE/SW Section 3-T9S-R17E Duchesne Co, Utah API #43-013-31397; Lease #UTU-75037

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No. <p style="text-align: center;">UTU-75037</p>
6. If Indian, Allottee or Tribe Name <p style="text-align: center;">NA</p>
7. If unit or CA, Agreement Designation <p style="text-align: center;">BlackJack</p>
8. Well Name and No. <p style="text-align: center;">Balcron Federal #24-3Y-9-17</p>
9. API Well No. <p style="text-align: center;">43-013-31397</p>
10. Field and Pool, or Exploratory Area <p style="text-align: center;">Monument Butte</p>
11. County or Parish, State <p style="text-align: center;">Duchesne County, Utah</p>

*SUBMIT IN TRIPLICATE*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other
2. Name of Operator <p style="text-align: center;"><b>INLAND PRODUCTION COMPANY</b></p>
3. Address and Telephone No. <p style="text-align: center;"><b>410 17th Street, Suite 700, Denver, Colorado 80202      (303) 893-0102</b></p>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <p style="text-align: center;">SE/SW      562' FSL, 1887' FWL      Sec. 3, T9S, R17E</p>

<b>12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water
		<small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct		
Signed <u>David Gerbig</u>	Title <u>Operations Engineer</u>	Date <u>2/20/03</u>
<b>David Gerbig</b>		

(This space of 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 to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

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10. Field and Pool, or Exploratory Area <p style="text-align: center;">Monument Butte</p>
11. County or Parish, State <p style="text-align: center;">Duchesne County, Utah</p>

*SUBMIT IN TRIPLICATE*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other
2. Name of Operator <p style="text-align: center;"><b>INLAND PRODUCTION COMPANY</b></p>
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	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		

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Please see attached injection application.

14. I hereby certify that the foregoing is true and correct		
Signed <u>David Gerbig</u>	Title <u>Operations Engineer</u>	Date <u>2-20-03</u>
<b>David Gerbig</b>		

(This space of Federal or State office use.)

Approved by _____	Title _____	Date _____
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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
(801) 359-3940 fax  
(801) 538-7223 TTY  
www.nr.utah.gov

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 306

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, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

*Earlene Russell*  
Earlene Russell  
Executive Secretary

encl.



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

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Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109

RE: Notice of Agency Action - Cause No. UIC 306

Gentlemen:

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Sincerely,

*Earlene Russell*  
Earlene Russell  
Executive Secretary

encl.

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

---

IN THE MATTER OF THE APPLICATION :  
OF INLAND PRODUCTION COMPANY :  
FOR ADMINISTRATIVE APPROVAL OF : NOTICE OF AGENCY ACTION  
THE TAR SANDS FEDERAL 9-31-8-17 :  
WELL LOCATED IN SEC. 31, T8S, R17E, : CAUSE NO. UIC 306  
AND BALCRON FEDERAL 24-3Y-9-17 :  
WELL LOCATED IN SEC. 3, T9S, R17E, :  
DUCHESNE COUNTY, UTAH, AS CLASS II :  
INJECTION WELLS :

---

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

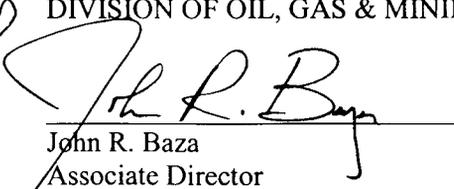
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec.31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin.Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed 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. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of March, 2003.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

PUBLISHED IN  
WINTA BASIN  
03-18-03  
STANDARD

**Inland Production Company**  
**Tar Sands Federal 9-31-8-17 and Balcron Federal 24-3Y-9-17**  
**Cause No. UIC 306**

Publication Notices were sent to the following:

Inland Production Company  
410 17th St, Suite 700  
Denver, CO 80202

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109

via E-Mail and Facsimile (801) 237-2776  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Vernal District Office  
Bureau of Land Management  
170 S 500 E  
Vernal UT 84078

Duchesne County Planning  
PO Box 317  
Duchesne UT 84021-0317

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
\_\_\_\_\_  
Earlene Russell  
Executive Secretary  
March 11, 2003

**From:** "NAC LEGAL" <naclegal@nacorp.com>  
**To:** "Earlene Russell" <EARLENERUSSELL@utah.gov>  
**Date:** 3/12/03 8:43AM  
**Subject:** Re: Cause # UIC 306

Please check the ad in the paper on Saturday, March 15th.  
Thank you.

----- Original Message -----

**From:** Earlene Russell  
**To:** naclegal@nacorp.com  
**Sent:** Tuesday, March 11, 2003 4:59 PM  
**Subject:** Cause # UIC 306

Please let me know when the publication date will be.

Thanks.

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

---

IN THE MATTER OF THE APPLICATION :  
OF INLAND PRODUCTION COMPANY :  
FOR ADMINISTRATIVE APPROVAL OF : NOTICE OF AGENCY ACTION  
THE TAR SANDS FEDERAL 9-31-8-17 :  
WELL LOCATED IN SEC. 31, T8S, R17E, : CAUSE NO. UIC 306  
AND BALCRON FEDERAL 24-3Y-9-17 :  
WELL LOCATED IN SEC. 3, T9S, R17E, :  
DUCHESNE COUNTY, UTAH, AS CLASS II :  
INJECTION WELLS :

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

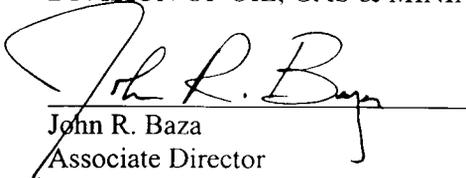
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec.31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin.Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed 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. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of March, 2003.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

**Inland Production Company**  
**Tar Sands Federal 9-31-8-17 and Balcron Federal 24-3Y-9-17**  
**Cause No. UIC 306**

Publication Notices were sent to the following:

Inland Production Company  
410 17th St, Suite 700  
Denver, CO 80202

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109

via E-Mail and Facsimile (801) 237-2776  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Vernal District Office  
Bureau of Land Management  
170 S 500 E  
Vernal UT 84078

Duchesne County Planning  
PO Box 317  
Duchesne UT 84021-0317

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
\_\_\_\_\_  
Earlene Russell  
Executive Secretary  
March 11, 2003

TRANSACTION REPORT

P. 01

MAR-11-2003 TUE 05:02 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
MAR-11	05:02 PM	14357224140	41"	2	SEND	OK	470	
TOTAL :						41S	PAGES:	2



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

1594 West North Temple, Suite 1210  
 PO Box 145801  
 Salt Lake City, Utah 84114-5801  
 (801) 538-5340 telephone  
 (801) 359-3940 fax  
 (801) 538-7223 TTY  
 www.nr.utah.gov

Michael O. Leavitt  
 Governor  
 Robert L. Morgan  
 Executive Director  
 Lowell P. Braxton  
 Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX

Uintah Basin Standard  
 268 S 200 E  
 Roosevelt UT 84066-3109

RECEIVED

MAR 12 2003

DIV. OF OIL, GAS & MINING

RE: Notice of Agency Action - Cause No. UIC 306

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, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

TRANSACTION REPORT

P. 01

MAR-11-2003 TUE 05:03 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
MAR-11	05:03 PM	2372776	43"	2	SEND	OK	471	
TOTAL :						43S	PAGES:	2



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

1594 West North Temple, Suite 1210  
 PO Box 145801  
 Salt Lake City, Utah 84114-5801  
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Michael O. Leavitt  
 Governor  
 Robert L. Morgan  
 Executive Director  
 Lowell P. Braxton  
 Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune  
 PO Box 45838  
 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 306

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, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Corporations Section  
P.O.Box 13697  
Austin, Texas 78711-3697



Geoffrey S. Connor  
Secretary of State

## 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

Come visit us on the internet at <http://www.sos.state.tx.us/>

PHONE(512) 463-5555  
Prepared by: SOS-WEB

FAX(512) 463-5709

TTY7-1-1

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

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

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

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

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

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

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

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

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

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

INLAND RESOURCES INC.

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

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



# 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

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: <u>Inland Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: <u>(303) 893-0102</u>	Date: <u>9/15/2004</u>
Comments:	

NEW OPERATOR

Company: <u>Newfield Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: _____	Date: <u>9/15/2004</u>
Comments:	

(This space for State use only)

Transfer approved by: *A. Stewart* Approval Date: 9-20-04  
 Title: *Tech. Services Manager*

Comments: Note: Indian Country wells will require EPA approval.

RECEIVED  
SEP 20 2004  
DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JAN 10 2005

Ref: 8P-W-GW

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

Mr. David Gerbig  
Operations Engineer  
Newfield Production Co.  
1401 Seventeenth Street - Suite 1000  
Denver, CO 80202

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

JAN 12 2005

RE: ADDITIONAL WELL TO CASTLE DRAW  
AREA PERMIT UT20776-00000  
**Balcron Federal No. 24-3Y-9-17**  
**Well ID: 20776-06163**  
SE SW Sec. 3 - T9S - 17E  
Duchesne County, Utah

Dear Mr. Gerbig:

The Newfield Production Co.(Newfield) request **to convert** a former Green River Formation oil well, the Balcron Federal No. 24-3Y-9-17, to an enhanced recovery injection well in the Castle Draw Area Permit is hereby authorized. The proposed Balcron Federal No. 24-3Y-9-17 Class II enhanced recovery injection well is within the exterior boundary of the Castle Draw Area Permit UT20776-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c) and the terms of the Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging and abandonment of the Balcron Federal No 24-3Y-9-17.

Prior to beginning injection, the Environmental Protection Agency (EPA) requires that Newfield submit for review and approval (1) the results of a **Part I (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, and (3) an **EPA Form No. 7520-12** (Well Rework Record, enclosed).



Because the cement bond log submitted for this well did not show an adequate interval of annulus cement through the confining zone, the operator shall be required to demonstrate Part II (External) MIT within a 180-day Limited Authorization To Inject. This demonstration may be made by a Temperature Survey, Noise Log, or Oxygen Activation Log, and Region 8 may accept results from a Radioactive Tracer Survey under certain circumstances. A limited period of authorization to inject is for the purpose of stabilizing the injection zone prior to this demonstration.

Copies of Guidance 37 (Demonstrating Part II External Mechanical Integrity), and a Region 8 Guideline for Conducting a Temperature Survey are enclosed.

Pursuant to Part II, Section C, Condition No. 5, (Injection Pressure Limitation), Castle Draw Area Permit UT20776-00000, the maximum initial surface injection pressure (MIP) shall not exceed 1740 psig. The Castle Draw Area Permit, Part II, C, 5., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

Please be aware that Newfield does not have authorization to begin injection into the Balcron Federal No. 24-3Y-9-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Newfield has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

If Newfield has any questions, please call Mr. Dan Jackson at (800) 227-8917 (Ext. 6155), or in the Denver area at (303) 312-6155. Please submit the required pre-authorization to inject data to **ATTENTION: DAN JACKSON**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



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

enclosures: EPA Form No. 7520-12 (Well Rework Record)  
Authorization For Conversion of An Additional Well  
Guidance No. 37: Mechanical Integrity (External)  
Temperature Survey Guidance  
Schematic Diagram of Proposed Conversion: Balcron Federal No.14-3Y-9-17

cc w/ enclosures: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

Mike Guinn  
Vice President - Operations  
Newfield Production Company

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources

Ed Forsman  
Sr. Petroleum Engineer  
Bureau of Land Management  
Vernal District



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**

**999 18<sup>TH</sup> STREET - SUITE 300**

**DENVER, CO 80202-2466**

**Phone 800-227-8917**

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

**AUTHORIZATION FOR AN ADDITIONAL WELL  
TO THE  
CASTLE DRAW AREA PERMIT: UT20776-00000**

The Environmental Protection Agency (EPA) authorizes the inclusion of an additional enhanced recovery injection well to the Castle Draw Area Permit No. UT20776-00000, as authorized by 40 CFR § 144.33 (c). The additional well is described as:

**WELL NAME: Balcron Federal No. 24-3Y-9-17**

**WELL PERMIT NUMBER: UT20776-06163**

**SURFACE LOCATION: 562' FSL & 1887' FWL (SE SW)  
Sec. 3 - T9S - R17E  
Duchesne County, Utah.**

This well is subject to all provisions of the original Castle Draw Area Permit No. UT20776-00000, and subsequent Modifications, unless specifically detailed below:

**UNDERGROUND SOURCE OF DRINKING WATER (USDW):** The base of the USDW (Total Dissolved Solids less than 10,000 mg/l) in the Balcron Federal No. 24-3Y-9-17 occurs within the Uinta Formation **less than fifty (50) feet** from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **258.7 feet** kelly bushing (KB) and cemented to the surface.

Reference: <http://NRWRT1.NR.STATE.UT.US...> Water Rights...Queries...POD: There are no domestic or agricultural wells, or springs, or streams, or reservoirs within the one-quarter (1/4) mile Area-of-Review (AOR) around the Balcron Federal No. 24-3Y-9-17.

**WATER ANALYSES:**

**Produced Green River Formation Water: (12/7/04) 13,338 mg/l TDS.**

**Source Water: Johnson Water District Reservoir. (10/14/02) 554 mg/l TDS.**

**Blended Injectate: (12/10/04) 7606 mg/l TDS.**



**CONFINING ZONE REVIEW: Balcron Federal No. 24-3Y-9-17.**

The EPA has authorized the gross interval from the top of the Garden Gulch Member to the top of the Wasatch as the enhanced recovery injection interval within the Castle Draw Area Permit. Overlying the top of the Garden Gulch Member, in the Balcron Federal No. 24-3Y-9-17, are fifty (50) feet (3558 feet to 3608 feet) of Green River Formation black, slightly silty, impervious shale which forms an effective lithologic confining zone.

An EPA analysis of the Balcron Federal No. 24-3Y-9-17 CBL/GR did not identify any 80% bond index cement bond within the Garden Gulch Member confining zone, pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34: Cement Bond Logging Techniques and Interpretation. Therefore, **it has not been determined that the cement in this well provides an effective barrier** to significant upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2). The permittee will be required to demonstrate Part II External Mechanical Integrity (MI) within a 180-day period of limited authorization to inject. Part II External MI may be demonstrated using a Temperature Log, Noise Log, or Oxygen Activation Log. Region 8 may accept the results of a Radioactive Tracer Survey (RATS) under certain circumstances ((See the enclosed GROUND WATER SECTION GUIDANCE NO. 37, Demonstrating Part II (External) Mechanical Integrity for a Class II Injection Well Permit)).

**INJECTION ZONE REVIEW: Balcron Federal No. 24-3Y-9-17.**

The Castle Draw Final Area Permit (Effective November 29, 1995) authorized injection into the Garden Gulch and Douglas Creek Members of the Green River Formation.

By **Major Permit Modification No. 2** (Effective September 9, 2003), the EPA authorized the gross Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members as the enhanced recovery injection interval throughout the Castle Draw Area Permit. The gross injection interval would be limited from a Garden Gulch Member top of 4160 feet kelly bushing (KB) to the top of the Wasatch 6014 feet (KB,) **as identified in the Federal No. 1-26 TYPE LOG (NE NW Sec. 26-T8S-R17. Duchesne County, Utah).**

The gross correlative Green River Formation enhanced injection recovery interval for the **Balcron Federal No. 24-3Y-9-17** is from the Garden Gulch top of 3608 feet to the top of the **Wasatch Formation (Estimated to be 5941 feet).**

Lithologically, the gross authorized enhanced recovery injection interval, Garden Gulch to the top of the Wasatch Formation, is fluvial and lacustrine shale, fluvial and lacustrine sandstone, lacustrine marlstone, and limestone. The Uinta and Green River Formations are predominantly non-lacustrine fluvial shale and sandstone on the basin margins, whereas lacustrine deposition predominates in the central basin area for these two formations. The

Wasatch Formation is predominantly fluvial, except for increasing minor lacustrine deposition in the central basin area.

**WELL CONSTRUCTION REVIEW: Castle Draw Federal No. 24-3Y-9-17.**

**SURFACE CASING:** 8-5/8 inch casing is set at 258.7 feet in a 12-1/4 inch hole, using 150 sacks of Class "G" cement circulated to the surface. The base of the USDW is less than twenty-five (25) feet from ground level.

**LONGSTRING CASING:** 5-1/2 inch casing is set at 5883 feet kelly bushing (KB) in a 7-7/8 inch hole, and cemented with 150 sacks of HiFill Standard and 470 sacks of 50/50 Pozmix.

The operator identifies the top of cement at 1130 feet.

The EPA analysis of the CBL/GR shows the shallowest interval of 80% cement bond index is from 4373 feet to 4432 feet in the Garden Gulch Member.

**PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS**

**Tubing and Packer:**

(Condition 3)

For injection purposes, the **Balcron Federal No. 24-3Y-9-17** will be equipped with 2-7/8 inch tubing with a packer to be set at a depth no higher than 100 feet above the top perforation, i.e., 4767 feet.

**Formation Testing and Logging**

(Condition 6)

- (a) Upon conversion of the **Castle Draw Federal No. 24-3Y-9-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A **Step-Rate Test (SRT)** shall be performed on the **Castle Draw Federal No. 24-3Y-9-17** within 180 days after injection operations are initiated. The results shall be submitted to the EPA. The permittee will contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

Two (2) **sand/frac treatments** were run on the **Castle Draw Federal No. 24-3Y-9-17**. The minimum fracture gradient value was 0.68 psi/ft.

An EPA review of seven (7) fracture gradients, Sections 2 and 10 - T9S - R17E, derived from **Step-Rate Tests (SRT)** show that the sand/frac derived fracture gradient of 0.68 psi/ft is lower than any SRT FG in Sections 2 and 10 - T9S - R17E.

## **PART II. B.**

### Corrective Action

As of January 2005, there are three (3) active Green River oil wells within the one-quarter (1/4) mile radius around the Castle Draw No. 24-3Y-9-17. No wells need Corrective Action.

#### Douglas Creek Member Oil Well:

<u>Balcron Federal No. 14-3-9-17Y:</u>	SW SW Sec. 3 - T9S - R17E
Top Garden Gulch Member:	3680 feet
Garden Gulch Confining Zone:	3660 feet to 3680 feet
Top 80% EPA Cement Bond:	4118 feet to 4188 feet
Top Douglas Creek Member:	4690 feet
Total Depth (CBL)	5655 feet
Estimate Top Basal Carbonate:	5866 feet
Estimate Top Wasatch Fmn.:	5991 feet

The 20-foot confining shale (3660 feet to 3680 feet) overlying the top of the Garden Gulch Member (3680 feet) is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Balcron Federal No. 24-3Y-9-17 Permit.** The Balcron Federal No. 24-3Y-9-17 will suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

<u>Blackjack Federal No. 15-3-9-17:</u>	SW SE Sec. 3 - T9S - R17E
Top Garden Gulch Member:	3610 feet
Garden Gulch Confining Zone:	3584 feet to 3610 feet
Top 80% EPA Cement Bond:	3596 feet to 3620 feet
Top Douglas Creek Member:	4570 feet
Total Depth (CBL):	5770 feet
Estimated Top Basal Carbonate:	5820 feet

Estimated Top Wasatch Fmn.: 5945 feet

The 26-foot confining shale (3584 feet to 3610 feet) overlying the top of the Garden Gulch Member (3610 feet) is protected by 80% bond index cement bond.

**Balcron Monument Federal No. 21-10-9-17Y:**

**NE NW Sec. 10-T9S-R17E**

Top Garden Gulch Member:	3542 feet
Garden Gulch Confining Zone:	3488 feet to 3542 feet
Top 80% EPA Cement Bond:	4210 feet to 4512 feet
Top Douglas Creek Member:	4512 feet
Total Depth (CBL):	5506 feet

Estimated Top Basal Carbonate: 5740 feet  
Estimated Top Wasatch Formation: 5865 feet

The 54-foot confining shale (3488 feet to 3542 feet) overlying the top of the Garden Gulch Member (3542 feet) is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent the upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Balcron Federal No. 24-3Y-9-17 Permit.** The Balcron Federal No. 24-3Y-9-17 will suspend operations immediately, and will stay suspended until the noncompliance has been resolved and renewed injection has been approved in writing by the Director.

**PART II. C.**

**Prior to Commencing Injection (Additional Wells)**

**(Condition 2)**

**Balcron Federal No. 24-3Y-9-17: This document is being issued without authority to inject.** Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

- A successful **mechanical integrity test (MIT)** demonstrating Part I Internal MI (Enclosed);
- a **pore pressure calculation** of the proposed injection zone; and an
- EPA Form No. 7520-12 (**Well Rework Record**, enclosed).

**Confirmation that the injectate will be confined to the authorized injection zone: It has not been determined that the annulus cement in this well provides an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore (Part II MI), pursuant to 40 CFR 146.8 (a) (2). Within a 180-day LIMITED AUTHORIZATION TO INJECT PERIOD, the permittee shall demonstrate Part II MI. Part II MI may be demonstrated by using methods as described in the enclosed GROUND WATER SECTION GUIDANCE NO. 37: Demonstrating Part II (External Mechanical Integrity for a Class II Injection Well Permit).**

**The 180-day period of Limited Authorization To Inject shall begin on that date in which injection for enhanced recovery commences. THE PERMITEE SHALL ADVISE THE EPA AS SOON AS POSSIBLE OF THE DATE THAT ENHANCED RECOVERY INJECTION BEGAN.**

Please be advised that all tests will be conducted following current EPA Guidelines. Deviations from those Guidelines, without written approval of the Director, may result in denial of the survey/test.

**Injection Interval**

(Condition 3)

Injection shall be limited to the **gross interval 3608 feet (KB) to the top of the Wasatch Formation estimated to be 5941 feet.** Within this gross interval are the Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation.

**Injection Pressure Limitation**

(Condition 4)

Pursuant to Final Area Permit UT20776-00000, Part II. Section C. 5. (b). the maximum surface injection pressure (MIP) shall not exceed 2137 psig. Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the initial maximum surface injection pressure (MIP) for the **Balcron Federal No. 24-3Y-9-17** shall not exceed **1740 psig.**

$$\text{MIP} = [\text{FG} - (0.433)(\text{SG}) \text{ D}]$$

$$\text{FG} = 0.68 \text{ psi/ft.}$$

$$\text{SG} = 1.005$$

$$\text{D} = 4767 \text{ feet. Top perforation.}$$

$$\text{MIP} = [0.68 - (0.433)(1.005) 4767]$$

$$\text{MIP} = 1739 \text{ psig but increased to } \underline{1740 \text{ psig.}}$$

Final Area Permit (UT20776-00000), has a provision whereby the operator may request an increase, or decrease, in the maximum surface injection pressure.

## PART II. F.

Demonstration of Financial Responsibility: (Condition 1)

The applicant has chosen to demonstrate financial responsibility via a Financial Statement. This instrument has been reviewed and approved by the EPA.

## PART III. E.

Reporting of Noncompliance: (Condition 10)

- (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: (Condition 11)

**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 VIII UIC Program Compliance and Enforcement Director**, or by contacting the **Region VIII Emergency Operations Center at 303.293.1788** if calling from outside EPA Region VIII. 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:

(Condition 12)

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 202.267.2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>.

Other Noncompliance:

(Condition 13)

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III. 10. c. ii. of this Permit.

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.

**APPENDIX C**

PLUGGING AND ABANDONMENT: The Plugging and Abandonment (P&A) Plan (Application Attachment Q-2) submitted by the applicant has been reviewed and approved by the EPA. The P&A Plan meets all EPA requirements to protect all USDWs. The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

PLUG NO. 1: Set a cast iron bridge plug (CIBP) at 4675 feet. Set a 100-foot cement plug on top of the CIBP.

PLUG NO. 2: Set a cement plug inside of the 5-1/2 inch casing from 2000 feet to 2200 feet over a water zone.

PLUG NO. 3: Set a cement plug, on the inside of the 5-1/2 inch casing, from the surface to 310 feet.

PLUG NO. 4: Set a cement plug, on the backside of the 5-1/2 inch casing, from surface to a depth of 310 feet.

This authorization for well conversion of the Balcron Federal No. 24-3Y-9-17 to a Class II injection well becomes effective upon signature.

Date: 1/6/05

*Janice Wong*  
\_\_\_\_\_  
for Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300  
DENVER, COLORADO 80202-2466

**SUBJECT:** GROUND WATER SECTION GUIDANCE NO. 37  
Demonstrating Part II (external) Mechanical Integrity  
for a Class II injection well permit.

**FROM:** Tom Pike, Chief  
UIC Direct Implementation Section

**TO:** All Section Staff  
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - **INTERNAL MECHANICAL INTEGRITY** is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - **EXTERNAL MECHANICAL INTEGRITY** demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the



test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Test conducted by: \_\_\_\_\_  
 Others present: \_\_\_\_\_

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: ____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test?  Yes  No  
 Initial test for permit?  Yes  No  
 Test after well rework?  Yes  No  
 Well injecting during test?  Yes  No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	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



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION VIII**

**999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466**

**TEMPERATURE LOGGING FOR MECHANICAL INTEGRITY**

**January 12, 1999**

**PURPOSE:**

The purpose of this document is to provide a guideline for the acquisition of temperature surveys, a procedure that may be used to determine the internal mechanical integrity of tubing and casing in an injection well. A temperature survey may be used to verify confinement of injected fluids within the injection formation.

**LOGGING PROCEDURE**

Run the temperature survey while going into the hole, with the temperature sensor located as close to the bottom of the tool as possible. The tool need not be centralized.

Record temperatures a 1-5 °F per inch, on a 5 inches per 100 feet log scale.

Logging speed should be within 20 - 30 feet per minute.

Run the log from ground level to total depth (or plug-back depth) of the well.

When using digital logging equipment, use the highest digital sampling rate as possible. Filtering should be kept to a minimum so that small scale results are obtained and preserved.

Record the first log trace while injecting at up to the maximum allowed injection pressure. Subsequent to the temperature survey, the maximum injection pressure will be limited to the pressure used during the survey.

**LOG TRACES**

Log the first log trace while the well is actively injecting, and record traces for gamma ray, temperature, and differential temperature.

Shut-in (not injecting) temperature curves should be recorded at intervals depending on the length of time that the injection well has been active. Preferred time intervals are shown in the following table:

Active Injection	Record Curves at These Times (In Hours)				
1 month	1	3	6	12	
6 months	1	6	10-122	22-24	
1 year	1	10-12	22-24	45-48	
5 years	1	10-12	22-24	45-48	90-96
10 years or more	1	22-24	45-48	90-96	186-192

# Balcron Federal #24-3Y

Elev. - 5042' GL  
KB - 5052' KB (10')

## Wellbore Diagram

### SURFACE CASING

SIZE: 8-5/8" *Base 1190w 450'*  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 249.7 (6 jts)  
 DEPTH LANDED: 258.7 KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs premium plus +  
 2% CCI+1/4 #/sk floccle

*259'*

### PRODUCTION CASING

SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 5888.07 (135 jts)  
 DEPTH LANDED: 5883' KB --  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 150 sxs Hfill standard & tail w/  
 470 sxs 50-50 Poz

CEMENT TOP AT: 1852' KB

### TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: none  
 TUBING ANCHOR: none  
 NO. OF JOINTS: 178 jts (5533.76')  
 SEATING NIPPLE: 1.1' @ 5543.76' KB  
 PERF. SUB: 3.05'  
 MUD ANCHOR: 1 jt - 31.06' w/ NC  
 STRING LENGTH: 5568.97'  
 SN at: 5543.76' KB

### SUCKER ROD RECORD

POLISHED ROD: 1-1/4" x 16'  
 SUCKER RODS: 214 - 3/4" x 25' slick, 1 - 8", 1 - 2-3/4" pony  
 6 - 1" x 25' EL Rods w/ guides  
 STRING LENGTH: 5526'  
 PUMP SIZE: BHP 2-1/2 x 1-1/2 x 15.5' RHAC 66" SL @ 5 SPM

### ACID JOB / BREAKDOWN JOB

8/1/93 Western 5468'-5512' : 1890 gal 2% KCl wtr  
 w/ 60 balls. balled off,  
 ATR-4.8bpm, ATP-3100, ISIP-1000  
 8/4/93 Western 4767'-5097' : 2520 gal 2% KCl wtr,  
 w/ 60 balls. Balled off.  
 ATR-4.5bpm, ATP-2300, ISIP-1300

### FRAC JOB

8/2/93 Western 5468'-512' : 4620gal 2% KCl pad, 18,816 gal  
 2% KCl w/ 29,000# 20/40 & 15,500# 16/30  
 sand, flush w/ 5250 gal 2% KCl wtr. ISIP-1370  
 ATP-2022, ATR-32.2bpm, 5min-1210,  
 10min-1130, 15min-1090.  
 8/4/93 Western 4767'-5097' : 3486gal 2% KCl pad, 19,000#  
 16/30 sand w/ 11,970gal 2% KCl wtr. Flush w/  
 4746gal 2% KCl. ATR-15.5bpm, ATP-2800,  
 ISIP-2000, 15mi n-1770

### PERFORATION RECORD

7/30/93 Haliburton 5506' - 5512' 6 ft 4 holes  
 5442' - 5468' 26 ft 14 holes

8/4/93 Schlumberger 5092' - 5097' 5 ft 4 holes  
 4767' - 4775' 8 ft 6 holes

*- 3558' - 3608' (50') Confines Zone*  
*- 3608' Garden Gulch Mem*

*- 4373' - 4432' (59') Top 80% Cement*

*- 4574' Dougls Creek Mem*

4767' - 4775'  
 5092' - 5097'

5442' - 5468'  
 5506' - 5512'

S.N. @ 5544' KB  
 EOT @ 5579' KB  
 PBTD @ 5837' KB  
 TD @ 5900' KB

*- 5816' Basel Carb.*  
*- 5941' Wasatch (B67)*



Inland Resources Inc.

BALCRON FEDERAL #24-3Y  
 SE SW Sec.3 T9S R17E  
 Lease #U-64381  
 Monument Butte Field  
 Duchesne County, Utah

**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
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:		<b>9/1/2004</b>
<b>FROM:</b> (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO:</b> ( New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	

**CA No. Unit: BLACKJACK (GR)**

<b>WELL(S)</b>								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
TAR SANDS FED 4-33	33	080S	170E	4301331664	12704	Federal	OW	P
TAR SANDS FED 5-33	33	080S	170E	4301331665	12704	Federal	WI	A
TAR SANDS FED 12-33	33	080S	170E	4301331757	12704	Federal	OW	P
TAR SANDS FED 6-33	33	080S	170E	4301331814	12704	Federal	OW	P
TAR SANDS FED 7-33	33	080S	170E	4301331860	12704	Federal	WI	A
TAR SANDS FED 11-33	33	080S	170E	4301331861	12704	Federal	WI	A
TAR SANDS FED 10-33	33	080S	170E	4301331884	12704	Federal	OW	P
TAR SANDS FED 15-33	33	080S	170E	4301331890	12704	Federal	OW	P
FEDERAL 24-3Y	03	090S	170E	4301331397	12704	Federal	WI	A
MON FED 14-3-9-17Y	03	090S	170E	4301331535	12704	Federal	OW	P
PAIUTE FED 32-4R-9-17	04	090S	170E	4301330674	12704	Federal	NA	DRL
FEDERAL 44-4Y	04	090S	170E	4301331452	12704	Federal	WI	A
ALLEN FED 43-5R-9-17	05	090S	170E	4301330720	12704	Federal	NA	DRL
MON FED 31-5-9-17	05	090S	170E	4301331680	12704	Federal	WI	A
FEDERAL 31R-9H	09	090S	170E	4301331107	12704	Federal	WI	A
CASTLE DRAW 10-10-9-17	10	090S	170E	4301330684	12704	Federal	OW	P
CASTLE DRAW 14-10	10	090S	170E	4301330994	12704	Federal	OW	P
FEDERAL 22-10Y	10	090S	170E	4301331395	12704	Federal	WI	A
BALCRON MON FED 12-10-9-17Y	10	090S	170E	4301331536	12704	Federal	OW	P
BALCRON MON FED 21-10-9-17Y	10	090S	170E	4301331537	12704	Federal	OW	P

K  
K

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

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

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

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

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

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

**DATA ENTRY:**

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

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

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

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

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

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

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

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU75037

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
**BLACKJACK UNIT**

1. TYPE OF WELL:      OIL WELL       GAS WELL       OTHER

8. WELL NAME and NUMBER:  
**FEDERAL 24-3Y**

2. NAME OF OPERATOR:  
**Newfield Production Company**

9. API NUMBER:  
**4301331397**

3. ADDRESS OF OPERATOR:  
**Route 3 Box 3630                      CITY Myton                      STATE UT                      ZIP 84052**

PHONE NUMBER  
**435.646.3721**

10. FIELD AND POOL, OR WILDCAT:  
**Monument Butte**

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: **0562 FSL 1887 FWL**

COUNTY: **Duchesne**

STATE: **Utah**

QTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: **SE/SW, 3, T9S, R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	SubDate	TYPE OF ACTION	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only)  Date of Work Completion:  <b>04/07/2005</b>	<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: - Injection Conversion
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well was converted from a producing to an injection well on 4-7-05. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4553'. On 2-24-05 Dan Jackson with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 3-1-05. On 4-7-05 the csg was pressured up to 1210 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 # UT20776-06163 API #43-013-31397.

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

NAME (PLEASE PRINT) Kathy Chapman

TITLE Office Manager

SIGNATURE *Kathy Chapman*

DATE 05/06/2005

**RECEIVED**

(This space for State use only)

**MAY 09 2005**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
 Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 4 / 7 / 2005  
 Test conducted by: J.D. Horrocks  
 Others present: \_\_\_\_\_

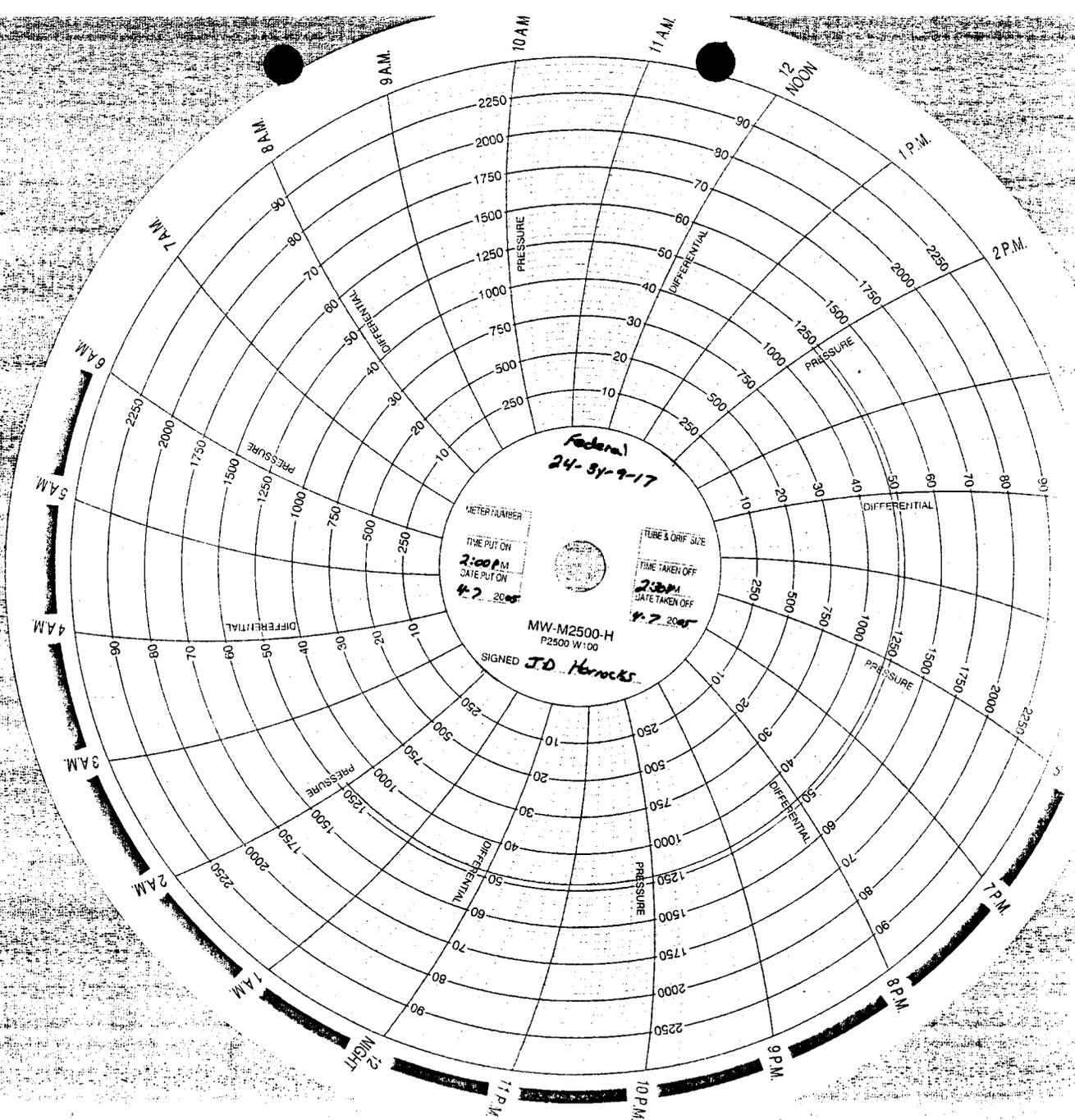
Well Name: <u>Federal 24-34-9-17</u>		Type: ER SWD	Status: AC TA UC
Field: <u>Black Jack Unit</u>			
Location: <u>SE/SW</u>	Sec: <u>3</u>	T <u>9</u>	N/S/R <u>17</u> E/W
County: <u>Duchesne</u>		State: <u>ut</u>	
Operator: <u>Newfield</u>			
Last MIT: _____ / _____ / _____		Maximum Allowable Pressure: _____ 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	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1210</u> psig	psig	psig
5 minutes	<u>1210</u> psig	psig	psig
10 minutes	<u>1210</u> psig	psig	psig
15 minutes	<u>1210</u> psig	psig	psig
20 minutes	<u>1210</u> psig	psig	psig
25 minutes	<u>1210</u> psig	psig	psig
30 minutes	<u>1210</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



Federal  
24-9-9-17

METER NUMBER

TIME PUT ON

DATE PUT ON

4-2-2005

TUBE & ORIF SIZE

TIME TAKEN OFF

DATE TAKEN OFF

4-2-2005

MW-M2500-H  
P2500 W:100

SIGNED J.D. Harrocks

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**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.

<b>SUBMIT IN TRIPLICATE - Other Instructions on reverse side</b>		5. Lease Serial No. UTU75037
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other      Injection well		6. If Indian, Allottee or Tribe Name.
2. Name of Operator Newfield Production Company		7. If Unit or CA/Agreement, Name and/or No. BLACKJACK UNIT
3a. Address    Route 3 Box 3630 Myton, UT 84052	3b. Phone No. (include are code) 435.646.3721	8. Well Name and No. FEDERAL 24-3 Y
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 0562 FSL 1887 FWL SE/SW Section 3 T9S R17E		9. API Well No. 4301331397
		10. Field and Pool, or Exploratory Area Monument Butte
		11. County or Parish, State Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE 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 Notice	<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, Put Well on Injection
	<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 recomplete 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 recompletion 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 above referenced well was put on injection at 10:00 a.m. on 6/24/05.

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

I hereby certify that the foregoing is true and correct	Title
Name (Printed/Typed) Mandie Crozier	Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 06/27/2005

**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 reverse)

RECEIVED

JUN 29 2005

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU75037

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Injection well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: Newfield Production Company		7. UNIT or CA AGREEMENT NAME: BLACKJACK UNIT
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: FEDERAL 24-3Y
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 0562 FSL 1887 FWL		9. API NUMBER: 4301331397
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE/SW, 3, T9S, R17E		10. FIELD AND POOL, OR WILDCAT: Monument Butte
		COUNTY: Duchesne
		STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	SubDate	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT <small>(Submit in Duplicate)</small> Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT <small>(Submit Original Form Only)</small> Date of Work Completion: 12/05/2005	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

A step rate test was conducted on the subject well on December 1, 2005. The fracture pressure was not achieved during the test. Therefore, Newfield is requesting the maximum allowable injection pressure (MAIP) be changed to the instantaneous shut in pressure of 1435 psi.

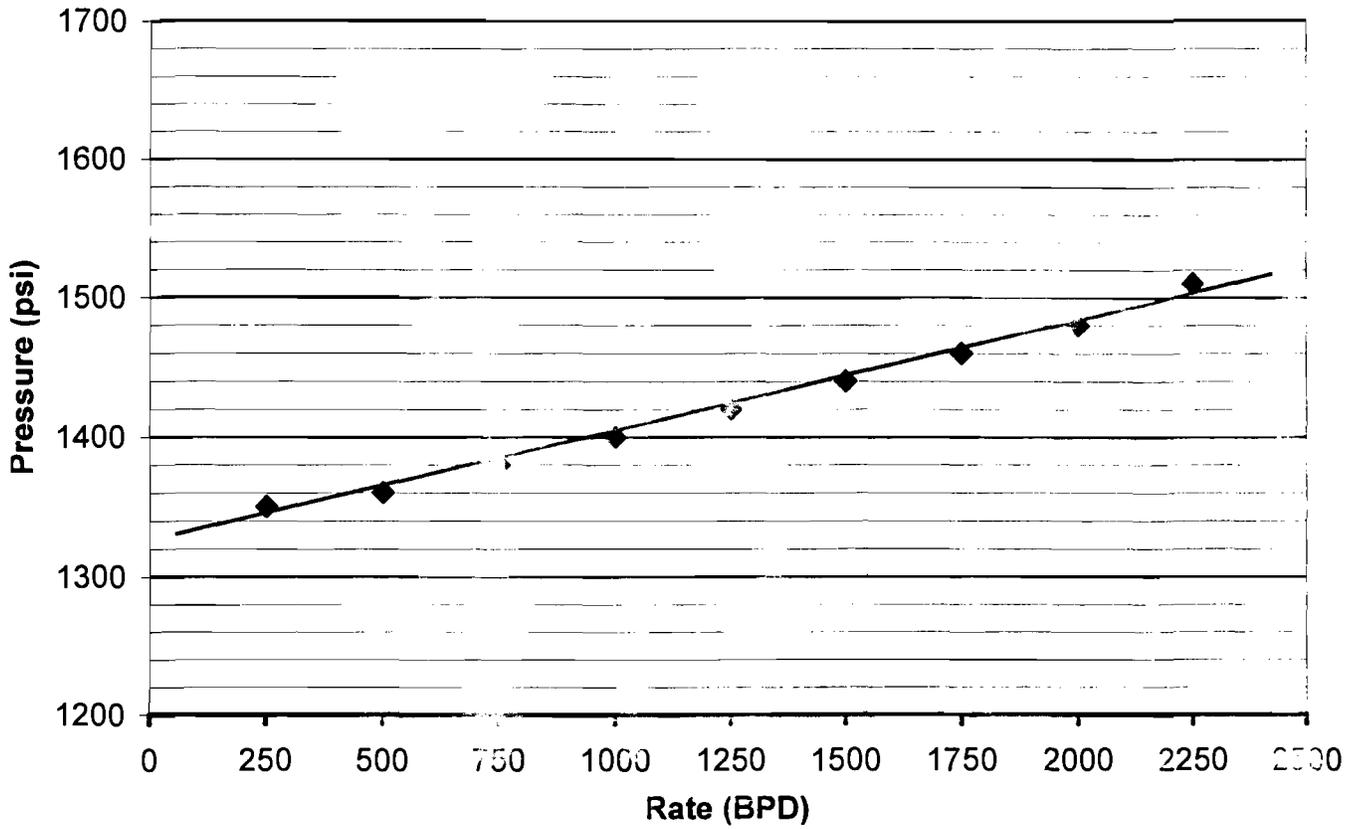
SUBMITTED TO  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Cheyenne Batemen TITLE Well Analyst Foreman  
SIGNATURE *Cheyenne Batemen* DATE 12/05/2005

(This space for State use only)

DEC 06 2005

**Balcron Federal 24-3Y-9-17  
Blackjack Unit  
Step Rate Test  
December 1, 2005**



**Start Pressure:** 1350 psi  
**Instantaneous Shut In Pressure (ISIP):** 1435 psi  
**Top Perforation:** 4-67 feet  
**Fracture pressure (Pfp):** 14A psi  
**FG:** 14 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	250	1350
2	500	1360
3	750	1380
4	1000	1400
5	1250	1420
6	1500	1440
7	1750	1460
8	2000	1480
9	2250	1510

## Step Rate Test (SRT) Analysis

Date: 12/05/2005

Operator:

Newfield Production Company

Well:

Balcron Federal 24-3Y-9-17

Permit #:

UT20776-06163

Enter the following data :

Specific Gravity (sg) of injectate = 1.005 g/cc

Depth to top perforation (D) = 4767 ft

Top of permitted injection zone depth (blank if no perforation to calculate fg) = \_\_\_\_\_ feet

Estimated Formation Parting Pressure (Pfp) from SRT chart = N/A psi

Instantaneous Shut In Pressure (ISIP) from SRT = 1435 psi

Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder = \_\_\_\_\_ psi

### Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = N/A psi/ft.

where: fg = Pbhp / D (Note: Use formula uses the downhole recorded bottom hole parting pressure if available) =

D = depth used = 4767

Pbhp used = 3509

Calculated Bottom Hole Parting Pressure (Pbhp) = 3509 psi

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 \* SG \* D)

(Use lower of ISIP or Pfp) Value used = 1435

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

Maximum Allowable Injection Pressure (MAIP) = 1435 psig

D = depth used = 4767

MAIP = ((0.433 \* SG) \* D) + #VALUE!

(rounded to nearest 5 psig)

Note: Parting pressure not reached during test. Use ISIP.



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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75037
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: BLACKJACK UNIT
8. WELL NAME and NUMBER: FEDERAL 24-3Y
9. API NUMBER: 4301331397
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:      OIL WELL       GAS WELL       OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:      PHONE NUMBER  
Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052      435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 562 FSL 1887 FWL      COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN:      SESW, 3, T9S, R17E      STATE:      UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  <u>11/09/2006</u>	<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: - Recompletion/MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well was workover because a hole in tubing. Found bad collar on jt # 73. Set packer w/ 15,000 tension @ 4696'. On 10-23-06 Nathan Wiser with the EPA was contacted concerning the MIT on the above list well. Permission was given at that time to perform the test on 10-27-06. On 10-27-06 the csg was pressured up to 1210 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 500 psig during the test. There was not a EPA representative available to witness the test. we are currently waiting for permission to commence injection.

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

NAME (PLEASE PRINT) Jentri Park      TITLE Production Clerk

SIGNATURE *Jentri Park*      DATE 11/09/2006

(This space for State use only)

**RECEIVED**  
**NOV 13 2006**  
DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 1 / 1 / \_\_\_\_\_  
 Test conducted by: Therese J. Ruzic  
 Others present: \_\_\_\_\_

Well Name: <u>Federal 24-34-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>MONUMENT BUTTE</u>		
Location: <u>SE/SW</u> Sec: <u>3</u> T <u>9</u> N <u>(S)</u> R <u>17</u> <u>(E)</u> W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Newfield</u>		
Last MIT: <u>1</u> / <u>1</u> / _____		Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 2 \_\_\_\_\_ psig

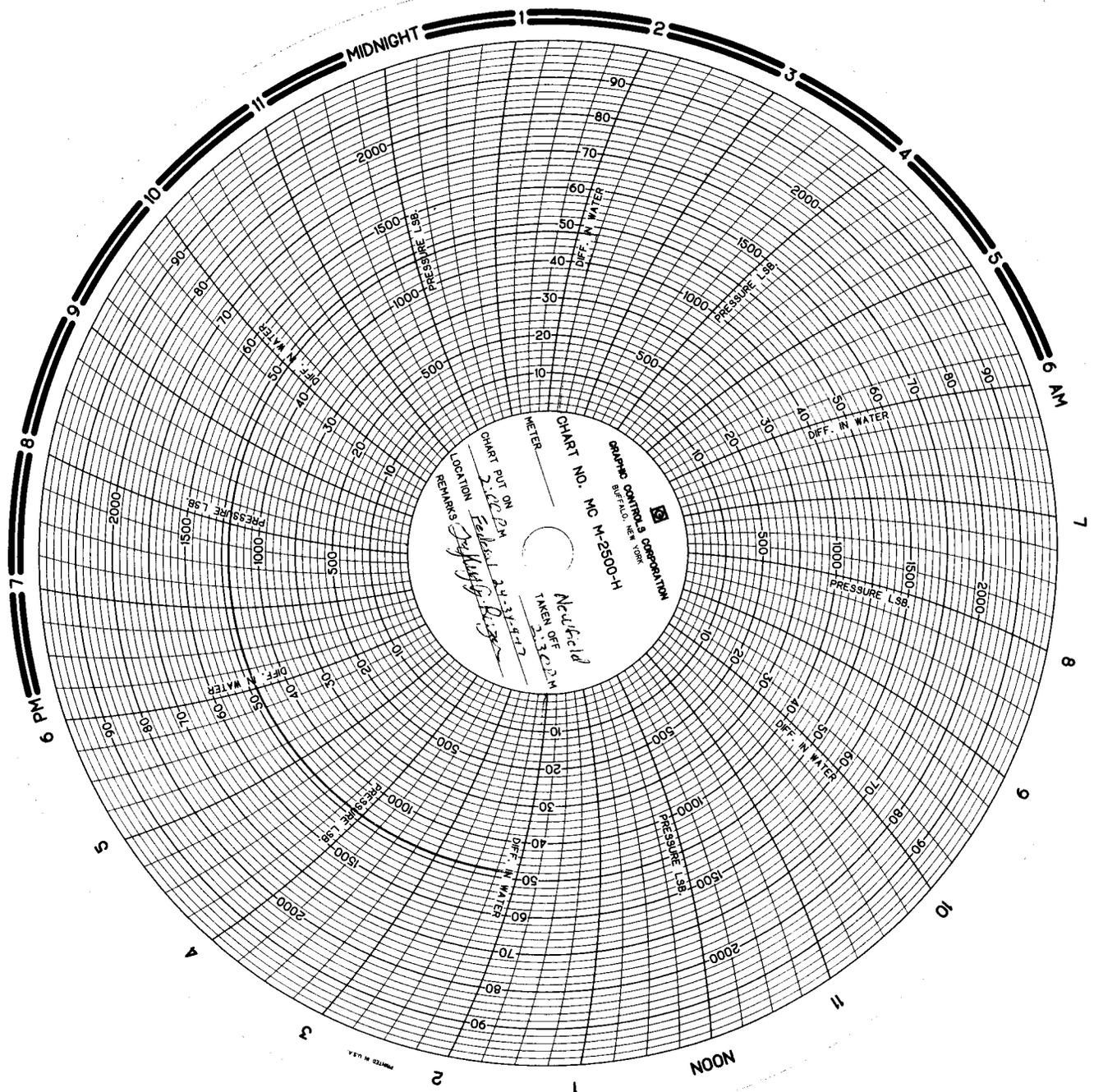
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>500</u> psig	psig	psig
End of test pressure	<u>500</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1210</u> psig	psig	psig
5 minutes	<u>1210</u> psig	psig	psig
10 minutes	<u>1210</u> psig	psig	psig
15 minutes	<u>1210</u> psig	psig	psig
20 minutes	<u>1210</u> psig	psig	psig
25 minutes	<u>1210</u> psig	psig	psig
30 minutes	<u>1210</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: \_\_\_\_\_



<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-75037
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> FEDERAL 24-3Y	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013313970000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0562 FSL 1887 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 03 Township: 09.0S Range: 17.0E Meridian: S	<b>COUNTY:</b> DUCHESNE	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/22/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
		OTHER: <input type="text" value="5 YR MIT"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>On 09/14/2011 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 09/22/2011 the casing was pressured up to 1165 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1367 psig during the test. There was not an EPA representative available to witness the test.</p> <p style="text-align: center;">EPA# UT20776-06163</p>		
<p><b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b></p>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/27/2011	

# 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: 9/22/11  
 Test conducted by: Lynn Monson  
 Others present: \_\_\_\_\_

Well Name: <u>Federal 24-34-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SE/SW</u> Sec: <u>3</u> T <u>9</u> N <u>KS</u> R <u>17E</u> W County: <u>Duchesne</u> State: <u>Ut.</u>		
Operator: <u>NewField</u>		
Last MIT: <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

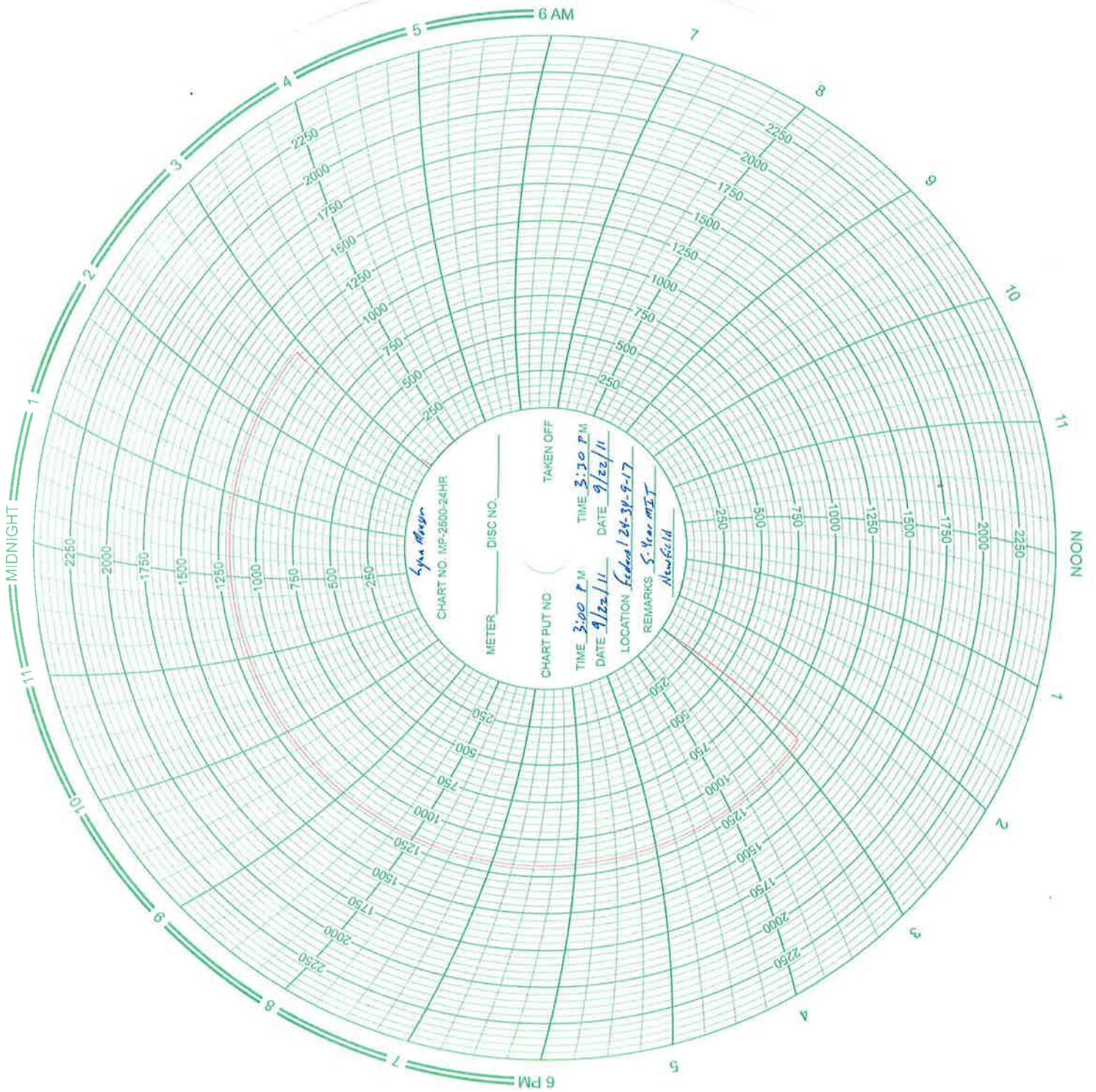
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1367</u> psig	psig	psig
End of test pressure	<u>1367</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1165</u> psig	psig	psig
5 minutes	<u>1165</u> psig	psig	psig
10 minutes	<u>1165</u> psig	psig	psig
15 minutes	<u>1165</u> psig	psig	psig
20 minutes	<u>1165</u> psig	psig	psig
25 minutes	<u>1165</u> psig	psig	psig
30 minutes	<u>1165</u> psig	psig	psig
<u>    </u> minutes	psig	psig	psig
<u>    </u> 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: \_\_\_\_\_



Spud: 7/10/93  
 Put on Production: 8/25/93  
 Put on Injection: 4/7/05  
 GL: 5042' KB: 5052'

# Balcron Federal #24-3Y-9-17

Initial Production: 42 BOPD,  
 NM MCFD, 2 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (249.7')  
 DEPTH LANDED: 258.7' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt.

### PRODUCTION CASING

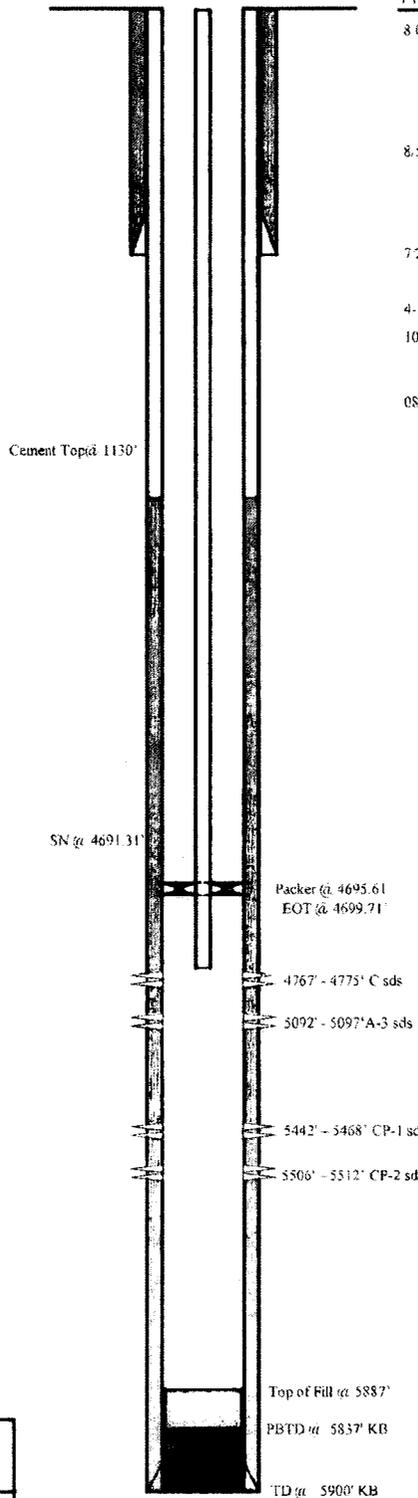
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (5888.67')  
 DEPTH LANDED: 5883' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 150 sxs Hifill standard & 470 sxs 50.50 POZ.  
 CEMENT TOP AT: 1130' per CBL

### TUBING RECORD

SIZE/GRADE/WT: 2-7/8" J-55 - 6.5#  
 NO. OF JOINTS: 151 jts @ (4681.31')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: (4691.31') KB  
 PACKER: (4695.61') KB  
 TOTAL STRING LENGTH: EOT @ 4699.71' KB

### Injection

### Wellbore Diagram



### FRAC JOB

8/02/93	5442'-5512'	Frac zone as follows: 29,600# 20.40 sand + 15,500# 16.30 sand in 448 bbls 2% KCl frac fluid. Treated @ avg press of 2022 psi w avg rate of 32.2 BPM. ISIP 1370 psi. Calc flush: 5442 gal. Actual flush: 5250 gal.
8/5/93	4767'-5097'	Frac zone as follows: 23,500# 16.30 sand in 317 bbls 2% KCl frac fluid. Treated @ avg press of 2800 psi w avg rate of 15.5 BPM. ISIP 2000 psi. Calc flush: 4767 gal. Actual flush: 4746 gal.
7/27/99		Tubing leak. Update rod and tubing details
4-7-05		Injection Conversion Complete
10/13/06		Workover, hole in tubing. MIT completed and submitted on 11/9/06. Tubing detail updated
08-13-08		Zone stimulation.

### PERFORATION RECORD

7/30/93	5506'-5512'	1 JSPF	04 holes
7/30/93	5442'-5468'	1 JSPF	14 holes
8/04/93	5092'-5'97'	1 JSPF	04 holes
8/04/93	4767'-4775'	1 JSPF	06 holes

**NEWFIELD**

Balcron Fed. #24-3Y-9-17  
 562' FSL & 1887' FWL  
 SE/SW Section 3-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31397; Lease #UTU-75037

<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-75037
<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> FEDERAL 24-3Y
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0562 FSL 1887 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 03 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013313970000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/22/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="5 YR MIT"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> 5 YR MIT performed on the above listed well. On 08/22/2016 the casing was pressured up to 1285 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1678 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06163		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          September 01, 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> 8/23/2016	

## 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: 8 / 22 / 2016

Test conducted by: Shannon Lazenby

Others present: \_\_\_\_\_

Well Name: <u>Rakoon Federal 24-31-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>24-31-9-17</u> Sec: <u>3</u> T <u>95</u> N/S R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>ut</u>
Operator: <u>Shannon Lazenby</u>		
Last MIT: <u>  </u> / <u>  </u> / <u>  </u>	Maximum Allowable Pressure: <u>1704</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: 0 bpd

Pre-test casing/tubing annulus pressure: 0/1678 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure	<u>1678</u> psig			
End of test pressure	<u>1678</u> psig			
<b>CASING/TUBING ANNULUS PRESSURE</b>				
0 minutes	<u>1281.2</u> psig			
5 minutes	<u>1282.8</u> psig			
10 minutes	<u>1283.2</u> psig			
15 minutes	<u>1283.6</u> psig			
20 minutes	<u>1284.4</u> psig			
25 minutes	<u>1284.8</u> psig			
30 minutes	<u>1285.4</u> psig			
_____ minutes	psig			
_____ minutes	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	<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: \_\_\_\_\_

24-3Y-9-17 5yr mit  
8/22/2016 12:19:32 PM

