

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTION SUB. REPORT/abd.

DATE FILED **10-22-93**

LAND. FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. **U-035521** INDIAN

DRILLING APPROVED: **11-22-93**

SUDDEN IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **LOCATION ABANDONED PER BLM EFF JANUARY 22, 1996**

FIELD: **MONUMENT BUTTE**

UNIT: **JONAH**

COUNTY: **DUCHESNE**

WELL NO. **BALCRON MONUMENT FED. 34-12J** API NO. **43-013-31420**

LOCATION **796' FSL** FT. FROM (N) (S) LINE. **2175' FEL** FT. FROM (E) (W) LINE. **SW SE** 1/4 - 1/4 SEC. **12**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<b>9S</b>	<b>16E</b>	<b>12</b>	<b>EQUITABLE RESOURCES</b>				

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				5. Lease Designation and Serial No. Federal # U-035521	
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				6. If Indian, Allottee or Tribe Name n/a	
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>				7. Unit Agreement Name Jonah Unit	
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division				8. Enrm or Lease Name Balcron Monument Federal	
3. Address of Operator P.O. Box 21017; Billings, MT 59104				9. Well No. #34-12J	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 796.4' FSL, 2175.5' FEL At proposed prod. zone				10. Field and Pool, or Wildcat Monument Butte/Green River	
14. Distance in miles and direction from nearest town or post office* Approximately 16 miles SW of Myton, UT				11. Q. Sec., T., R., H., or Blk. and Survey or Area SW SE Sec. 12, T9S, R16E	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any)		15. 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 <del>5,000</del> 5800'		20. Rotary or cable tools Rotary	
21. Elevations (Show whether DF, RT, GR, etc.) 5524.1' GL				22. Approx. date work will start* Upon APD approval	
23. PROPOSED CASING AND CEMENTING PROGRAM					
Size of Hole      Size of Casing      Weight per Foot      Setting Depth      Quantity of Cement					
See attached					

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

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OCT 22 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: Bobbie Schuman Title: Coordinator of Environmental and Regulatory Affairs Date: October 20, 1993  
(This space for Federal or State office use)

API NO. 43-013-31420 Approval Date \_\_\_\_\_  
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING  
Approved by \_\_\_\_\_ Title \_\_\_\_\_ DATE: 11/22/93  
Conditions of approval, if any: \_\_\_\_\_ BY: [Signature]  
WELL SPACING: 649-2-3

\*See Instructions On Reverse Side

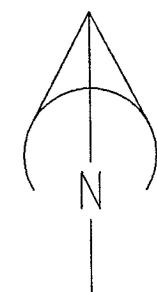
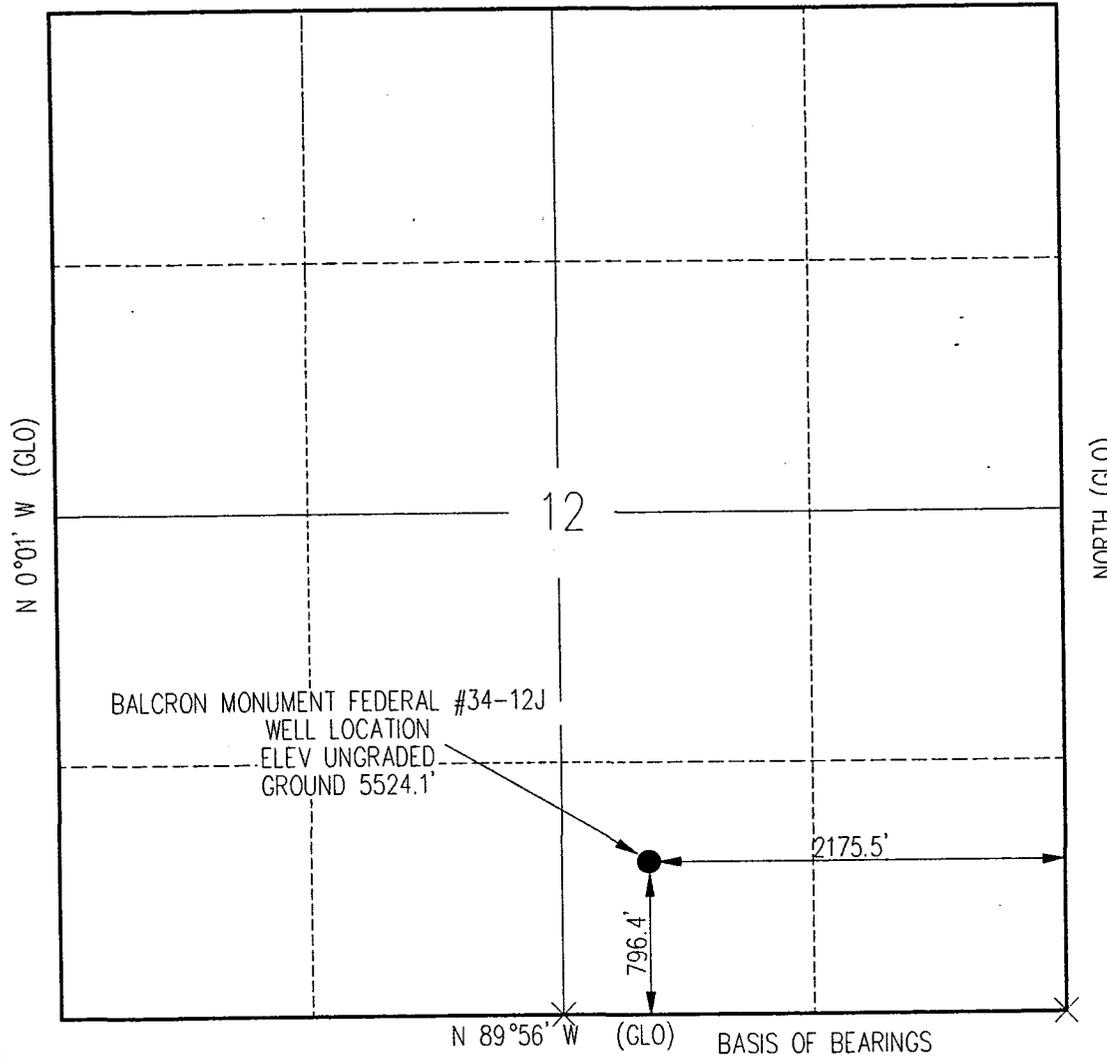
EXHIBIT "F"

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

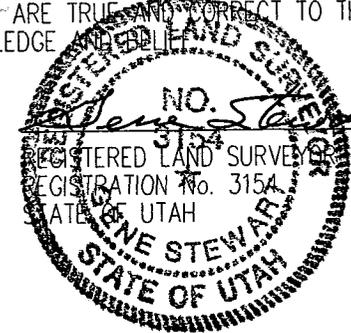
N 89°59' W (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #34-12J, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 12, T9S, R16E, 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.



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

WEATHER: CLEAR & HOT
DATE: 9/30/93
SCALE: 1" = 1000'
SURVEYED BY: GS QS
FILE: MF 34-12J



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
U-035521

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

7. UNIT AGREEMENT NAME  
Jonah Unit

8. FARM OR LEASE NAME  
Balcron Monument Federal

9. WELL NO.  
34-12J

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

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
SW SE Sec. 12, T9S, R16E

12. COUNTY OR PARISH  
Duchesne

13. STATE  
UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
796.4' FSL, 2175.5' FEL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 16 miles SW of Myton., UT

16. NO. OF ACRES IN LEASE  
17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
19. PROPOSED DEPTH  
6,000' 5800'

20. ROTARY OR CABLR TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5524.1' GL

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

23. PROPOSED CASING AND CEMENTING PROGRAM

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

EXHIBITS ATTACHED

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

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

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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.

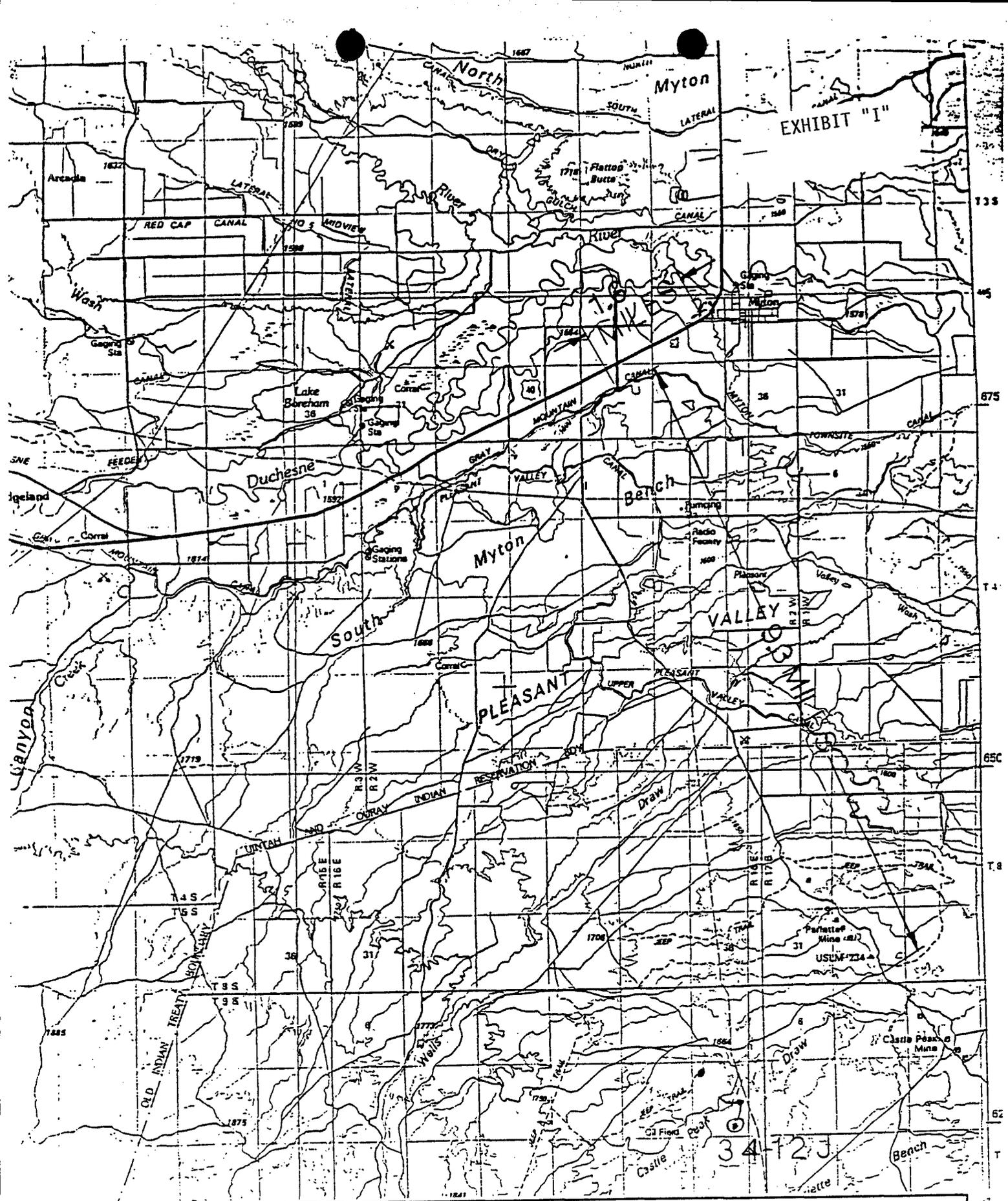
24. SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE October 20, 1993  
(This space for Federal or State office use)

PERMIT NO. 43-013-31420 APPROVAL DATE \_\_\_\_\_

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

\*See Instructions On Reverse Side

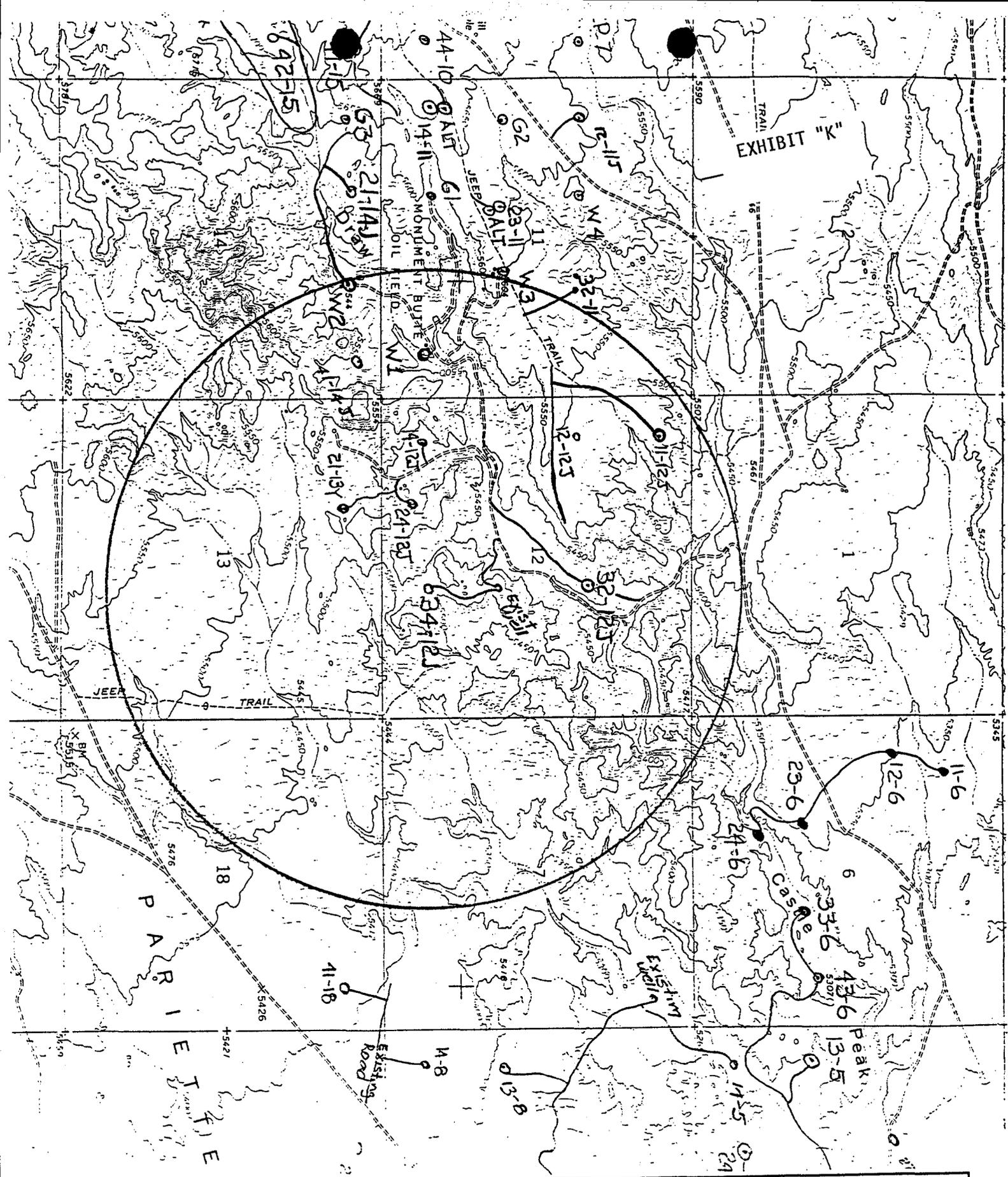
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



EQUITABLE RESOURCES ENERGY CO.  
 MONUMENT FEDERAL #34-12J  
 MAP "A"

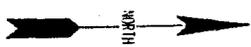




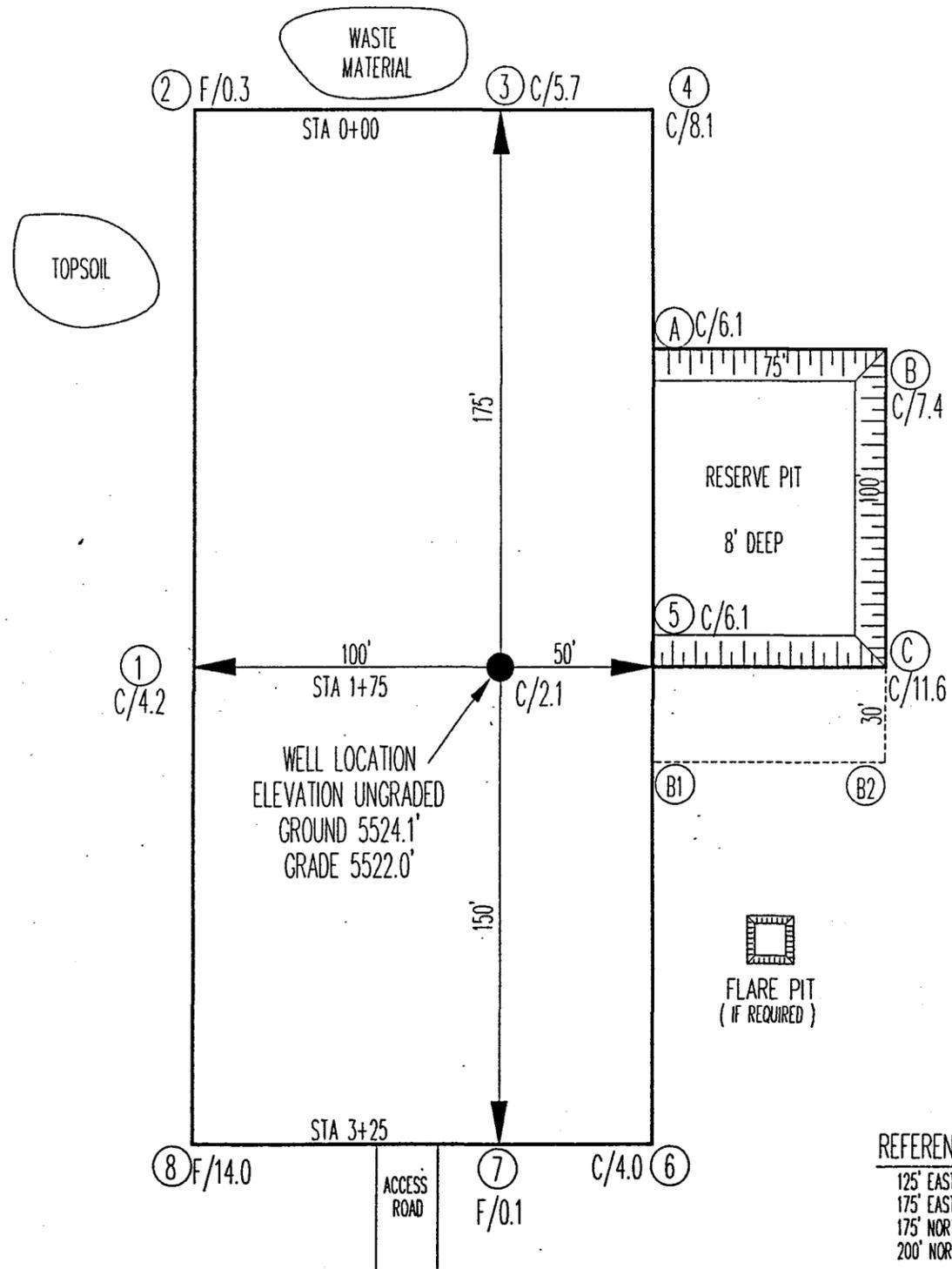


EQUITABLE RESOURCES ENERGY CO.  
 MONUMENT FEDERAL #34-12J  
 MAP "C"

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



EQUITABLE RESOURCES ENERGY CO.  
BALCRON MONUMENT FEDERAL #34-12J

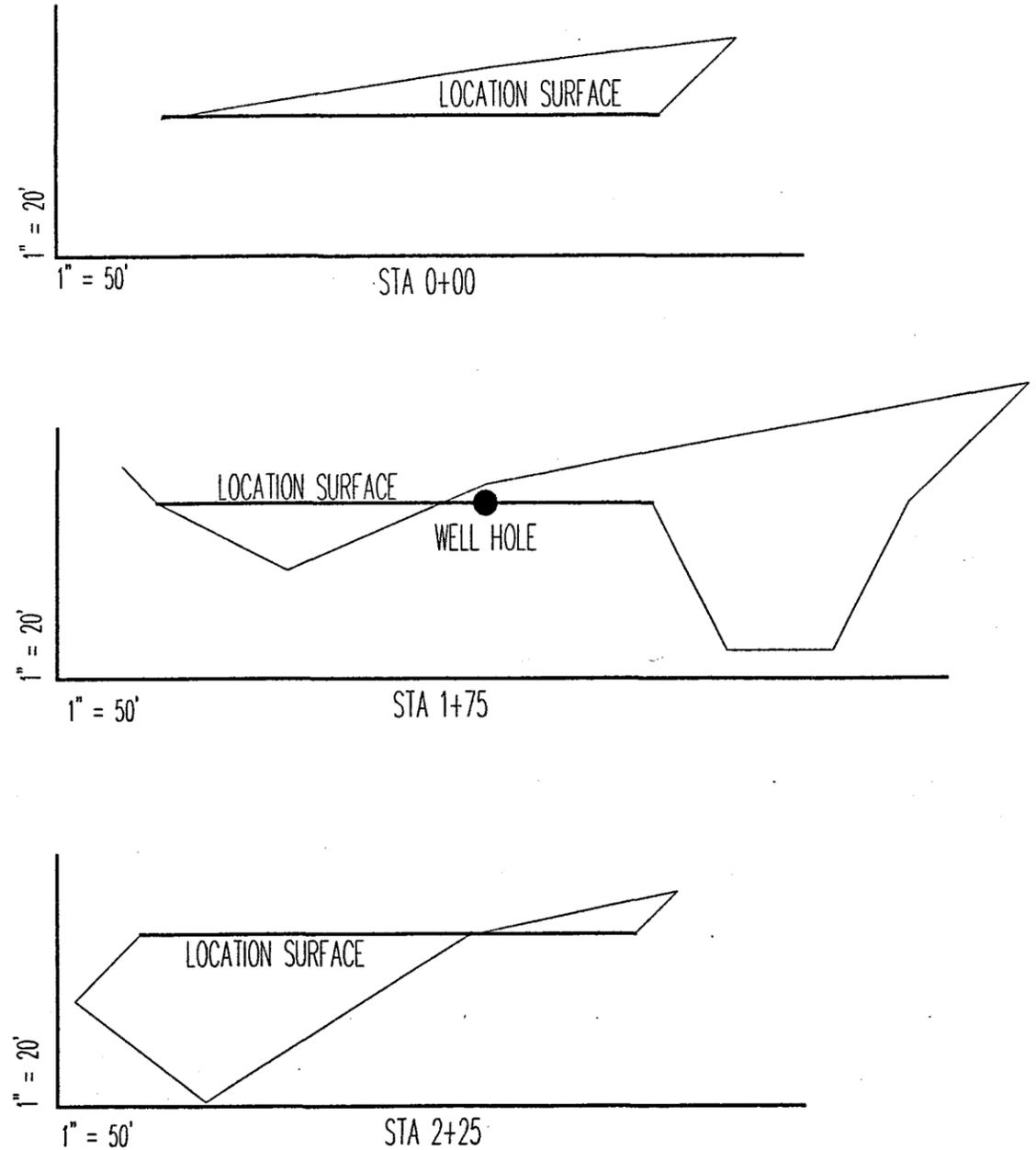


REFERENCE POINTS

125' EAST 5530.0'  
175' EAST 5538.1'  
175' NORTH 5520.5'  
200' NORTH 5519.9'

APPROXIMATE YARDAGE

CUT = 5626 Cu Yds  
FILL = 5093 Cu Yds  
PIT = 1826 Cu Yds



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

# **CONFIDENTIAL**

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

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

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #34-12J  
SW SE Section 12-T9S-R16E  
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 after APD approval as possible.
- b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.
- c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.
- d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

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

EQUITABLE RESOURCES ENERGY COMPANY  
BALCRON OIL DIVISION  
BALCRON MONUMENT FEDERAL #34-12J  
SW SE Section 12, T9S, R16E  
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. 125' & 175' East and 175' & 200' North.
- B. The Monument Federal #34-12J is located approximately 16 miles Southwesterly of Myton Utah, in the SW1/4 SE1/4 Section 12, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 34-12J, 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 9.3 miles to an intersection with Monument Butte Gas Plant road. Proceed West along said Gas Plant road 2.4 miles to road intersection. Turn left and proceed 1.0 mile to road intersection. Turn left and continue 0.2 mile to existing location #33-12. Follow flags 1200 feet to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

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

Approximately 1200 feet of new road construction will be required for access to the proposed well location.

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

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

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

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

Upgrading shall not be allowed during muddy conditions.

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

- C. Maximum grade - Less than 8%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

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

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

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

Please Refer to Map "C"

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

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

A. Existing

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

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout 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 accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

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

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

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

A. Water to be used for the drilling of these wells will be

hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah, or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the beginning of drilling operations.

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

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

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

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

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

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

D. There are no trees on this location.

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

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

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

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

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

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with 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 help visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. The reserve pit will be located on the West side, and the flare pit will be downwind of the prevailing wind direction between corners #5 & #6. Access to the well pad will be from the North between corners #7 & #8.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There may be as many as three (3) trailers on location during drilling operation.
- C. A 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 on the South side of location near pit corner B, at least 100' from the wellhead and at least 30' from the reserve pit. This pit might be used for testing, but only after the drilling is completed and the drilling equipment and personnel are off the well site location.

The reserve pit will be lined. The liner 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 it 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. The plastic reinforced pit liner shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

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

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year

round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

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

Seeded will be prepared by dishing, 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 seed mixture stipulated by the authorized officer.

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) re-establishing irrigation systems where applicable,
  - (b) re-establishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and,
  - (c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.
  
2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeded operations will be performed in the fall or spring following completion of reclamation operations.
  - (a) A silt catchment basin will be constructed according to BLM specifications approximately 400 feet NE of corner #8.

**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 11 miles South of Myton Utah.

This basin floor is interlaced with numerous canyons and

ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

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

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

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

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

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

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

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

- B. The surface ownership is Federal. The surface use is grazing and petroleum production.
- C.
  1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.
  2. There are no occupied dwellings in the immediate area
  3. An archaeological report will be forwarded upon

completion.

4. There are no reported restrictions or reservations noted on the oil and gas lease.

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

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

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

Dale Griffin, Field Superintendant Home (406)656-9719

**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.

October 20, 1993

**Date**

Bobbie Schuman

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



Equitable Resources Energy Company  
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Monument Butte Area  
LOCATION: Twn.9S' Rge.16E & 17E  
COUNTY: Duchesne

PROSPECT/FIELD: Monument Butte  
STATE: Utah

TOTAL DEPTH: SEE APD COVER SHEET

HOLE SIZE INTERVAL

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

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

CEMENT PROGRAM

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

Production 250 sacks Thifty Lite and 400 sacks 50-50 Poz mix.

PRELIMINARY DRILLING FLUID PROGRAM

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

depending on the drilling contractor either:

- a.) Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.
- b.) Drilling will be done using 2% KCl water and gel.

COMMENTS

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

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: MONUMENT BUTTE AREA
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight ( 9.63 ppg) : 0.500 psi/ft  
 Shut in surface pressure : 2280 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	SFC TO TD 5-1/2"	15.50	J-55	ST&C	SEE APD COVER SHEET	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	2850	4040	1.418	2850	4810	1.69	88.35	202	2.29 J

Prepared by : McCoskery, Billings, MT  
 Date : 11-30-1992 (Revised 8/30/93)  
 Remarks :

The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 2,850 psi, respectively.

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



# 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

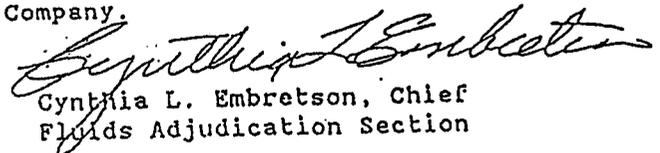
### CORPORATE MERGER RECOGNIZED RIDER TO NATIONWIDE BOND ACCEPTED

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)

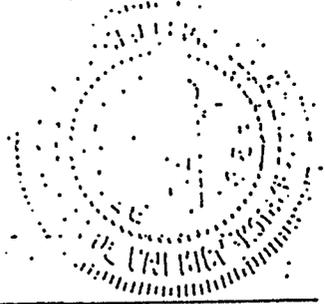
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

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



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: [Signature]  
R. George Voinchet ATTORNEY-IN-FACT



POWER  
OF ATTORNEY

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. VEHAR; 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."

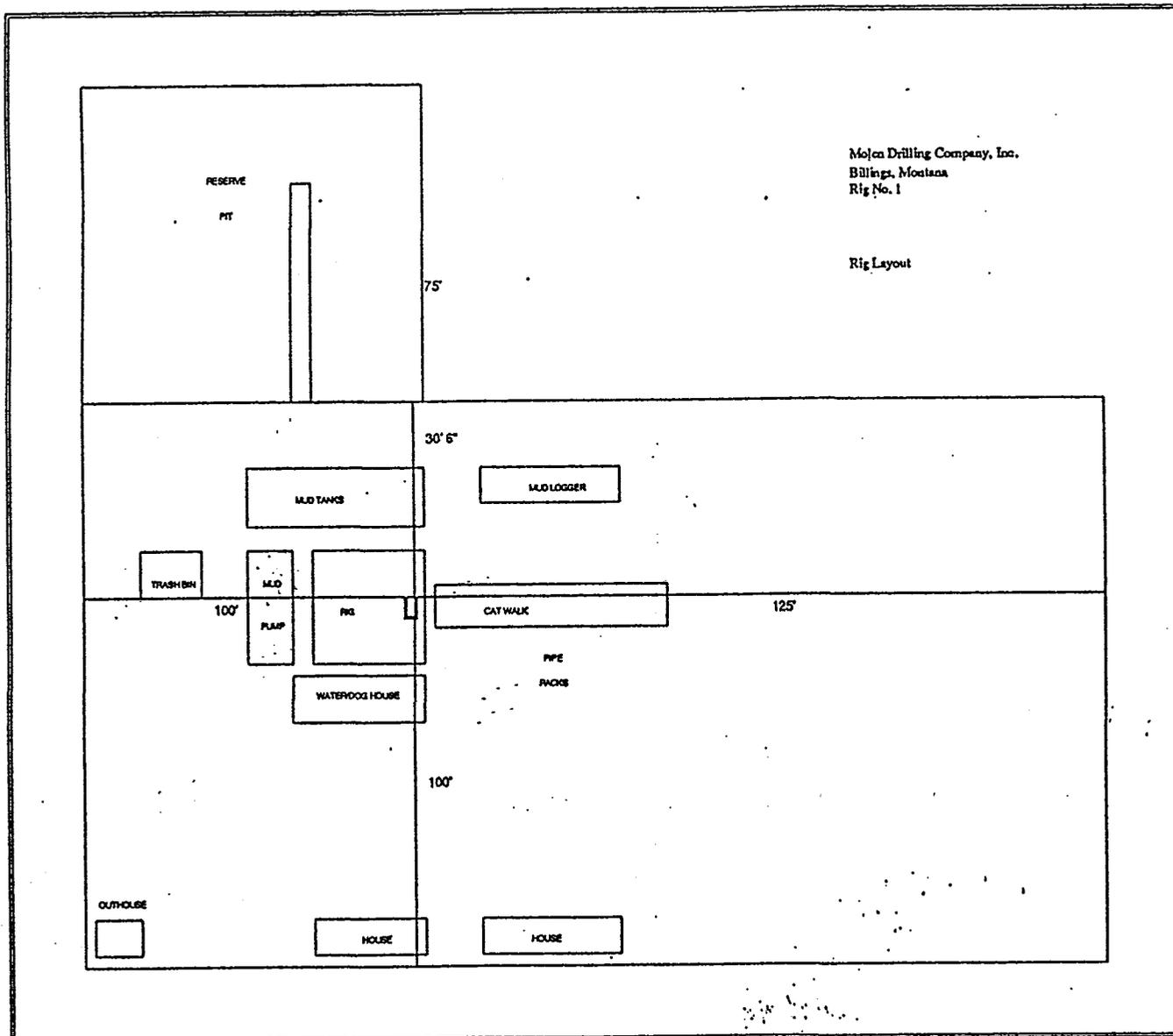
I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true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

## EXHIBITS "G" and "H"

Rig layouts and BOPE diagrams are submitted for both Union Drilling Rig #17 and Molen Drilling Rig #1. This well will be drilled with air as far as hole conditions allow and then with drilling fluids. See EXHIBIT "D" for additional details.

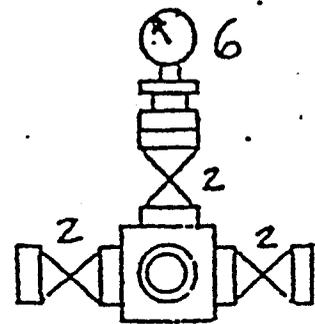
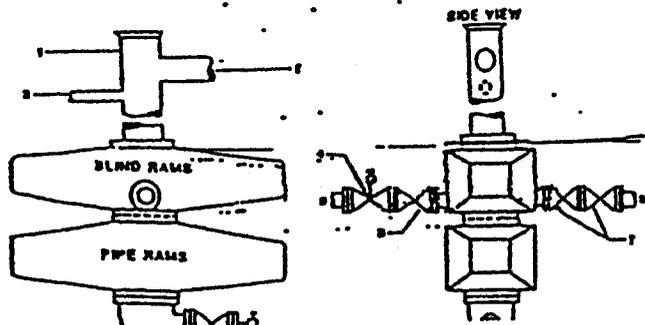
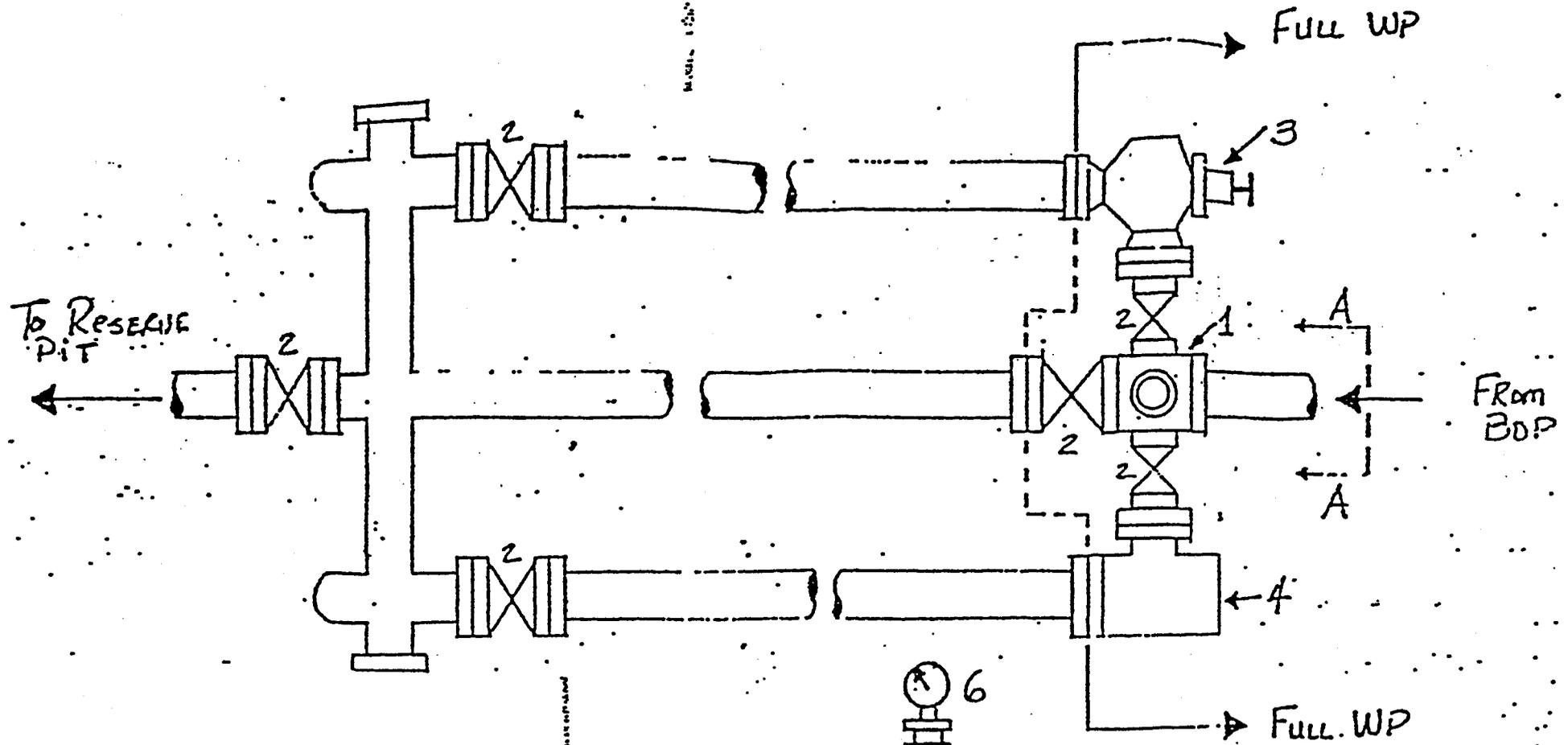


Mojan Drilling Company, Inc.  
 Billings, Montana  
 Rig No. 1

Rig Layout

EXHIBIT "G"

EXHIBIT "H"

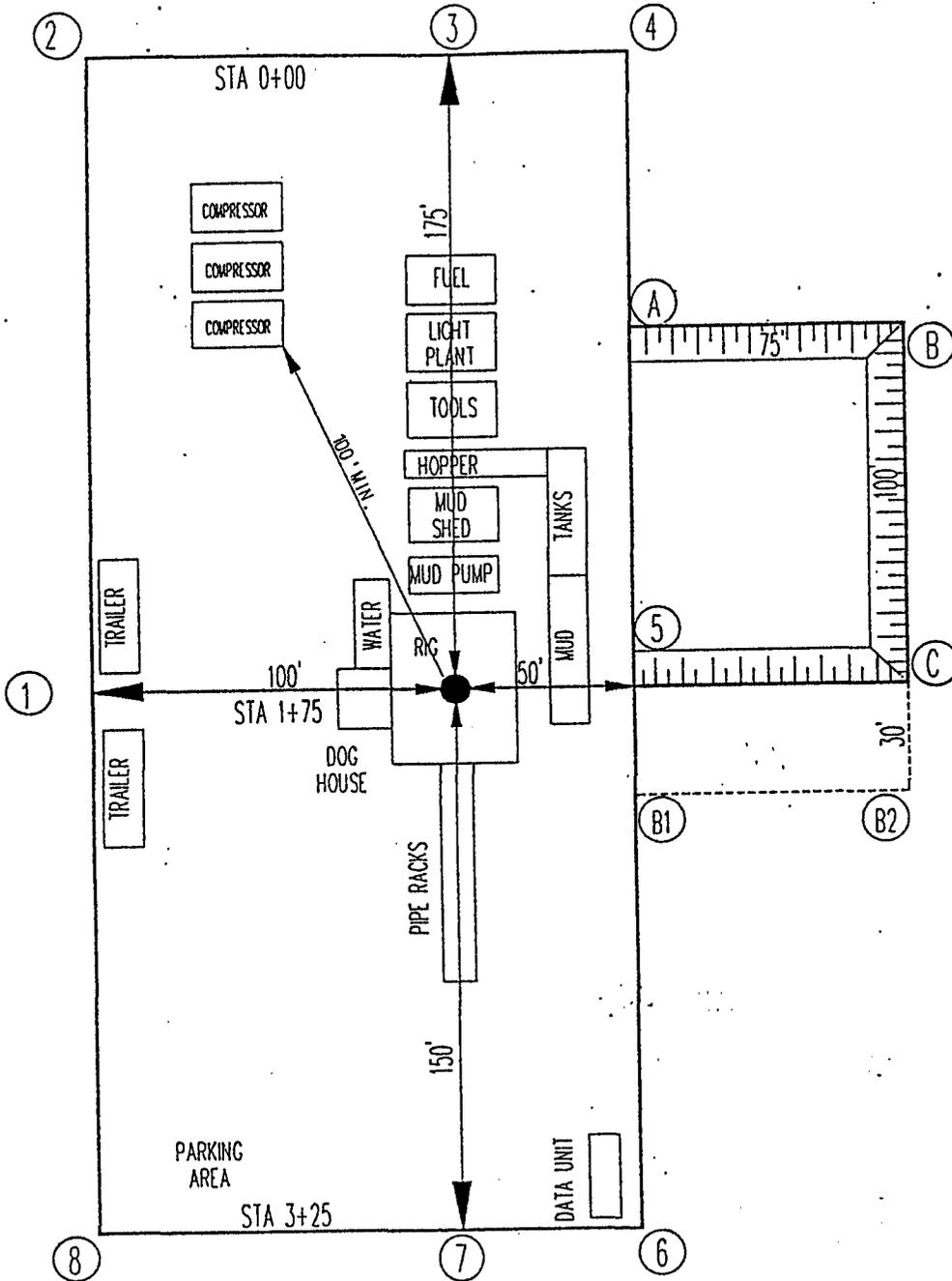


VIEW A-A

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

Notes: All lines must be securely anchored

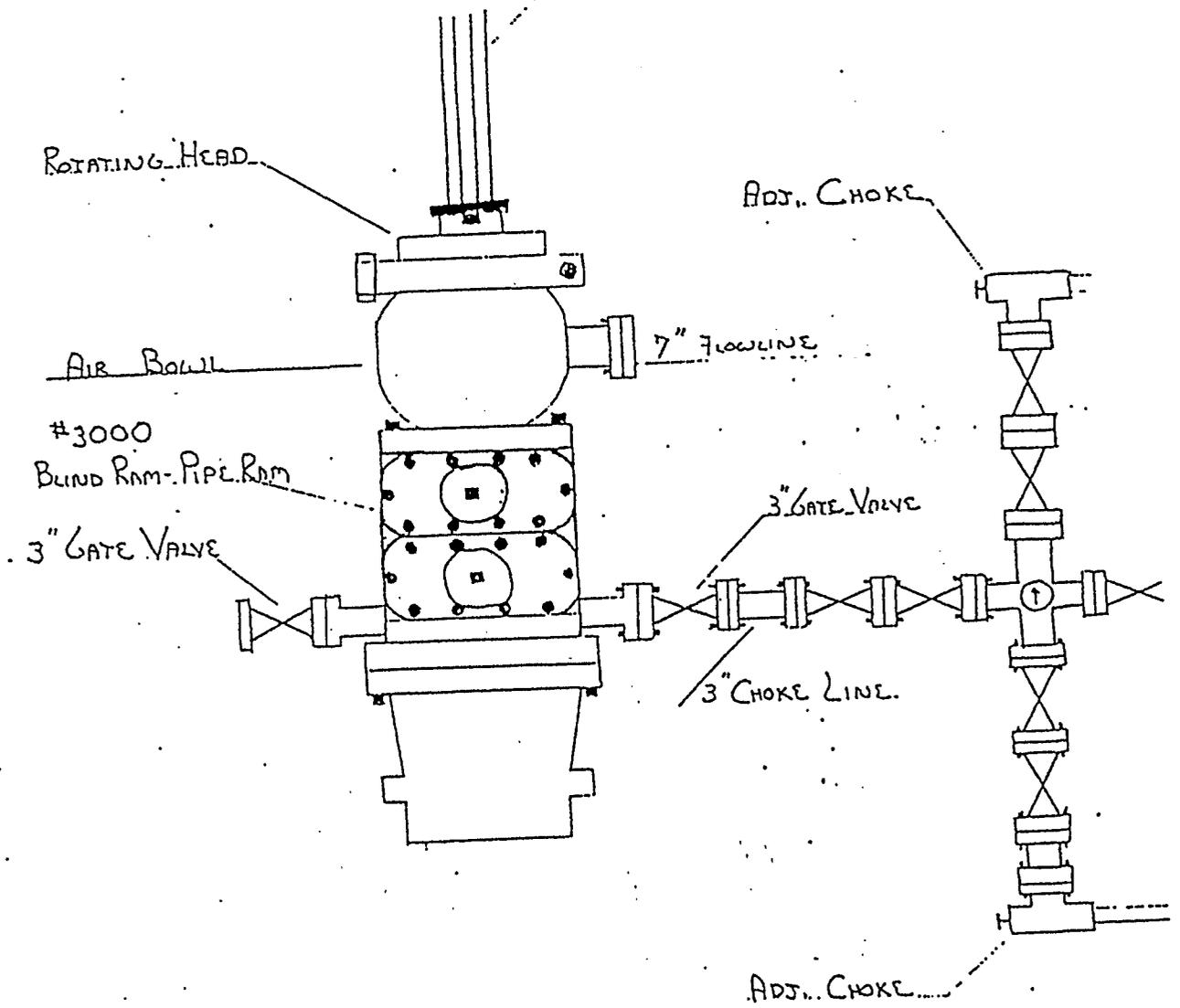
# EQUITABLE RESOURCES ENERGY CO. WELLSITE LAYOUT



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

UNION DRILLING RIG #17

Hex Kelly -



#3000 STACK

**CULTURAL RESOURCE EVALUATION  
OF EIGHT PROPOSED WELLS  
IN THE MONUMENT BUTTES  
LOCALITY OF DUCHESNE COUNTY, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-93-54937  
AERC Project 1410 (BLCR-93-9)

Utah State Project No.: UT-93-AF-595b

Principal Investigator  
F. Richard Hauck, Ph.D.

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



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

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

November 8, 1993

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of eight proposed wells (Units 31-1J, 32-1J, 44-1J, 12-11J, 11-12J, 32-12J, 34-12J, 21-14J) and associated access routes situated on BLM administered lands located in the Monument Buttes locality of Duchesne County, Utah. This evaluation involved a total of 90.79 acres, of which 80 acres are associated with the eight well pads and an additional 10.79 acres associated with the various access road rights of way. These evaluations were conducted by Glade Hadden and Walter Lenington of AERC on October 29 and November 4, 1993.

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

Two newly identified cultural resource activity loci were discovered and recorded during the examinations. 42DC 780 is a significant prehistoric activity locus associated with well location 34-12J. This location can not be moved within the ten acre parcel to avoid Site 42DC 780 and the mitigation of the site is recommended should Balcron Oil Division desire to initiate a drilling program at this location. 42DC 781 is a non-significant prehistoric activity locus associated with well location 32-12J.

Six isolated artifacts (AERC #s 1410 G/X1 through 1410 G/X5 and 1410W/X1) are non-diagnostic flakes and bifacially flaked tools which were noted and recorded during the investigations.

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

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## GENERAL INFORMATION

On October 29 and November 4, 1993, AERC archaeologists Glade Hadden and Walter Lenington conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved eight proposed well locations (Units 31-1J, 32-1J, 44-1J, 12-11J, 11-12J, 32-12J, 34-12J, 21-14J) and associated access roads located in the Monument Buttes area south of Myton, Utah. Some 90.79 acres were examined which includes ca. 80 acres associated with the eight well pads and an additional 10.79 acres associated with the various 100 foot-wide access routes. This project is situated in the Monument Buttes locality of Duchesne County, Utah. The entire project area is situated on federal lands administered by the Bureau of Land Management, Vernal District Office, Diamond Mountain Resource Area.

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

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

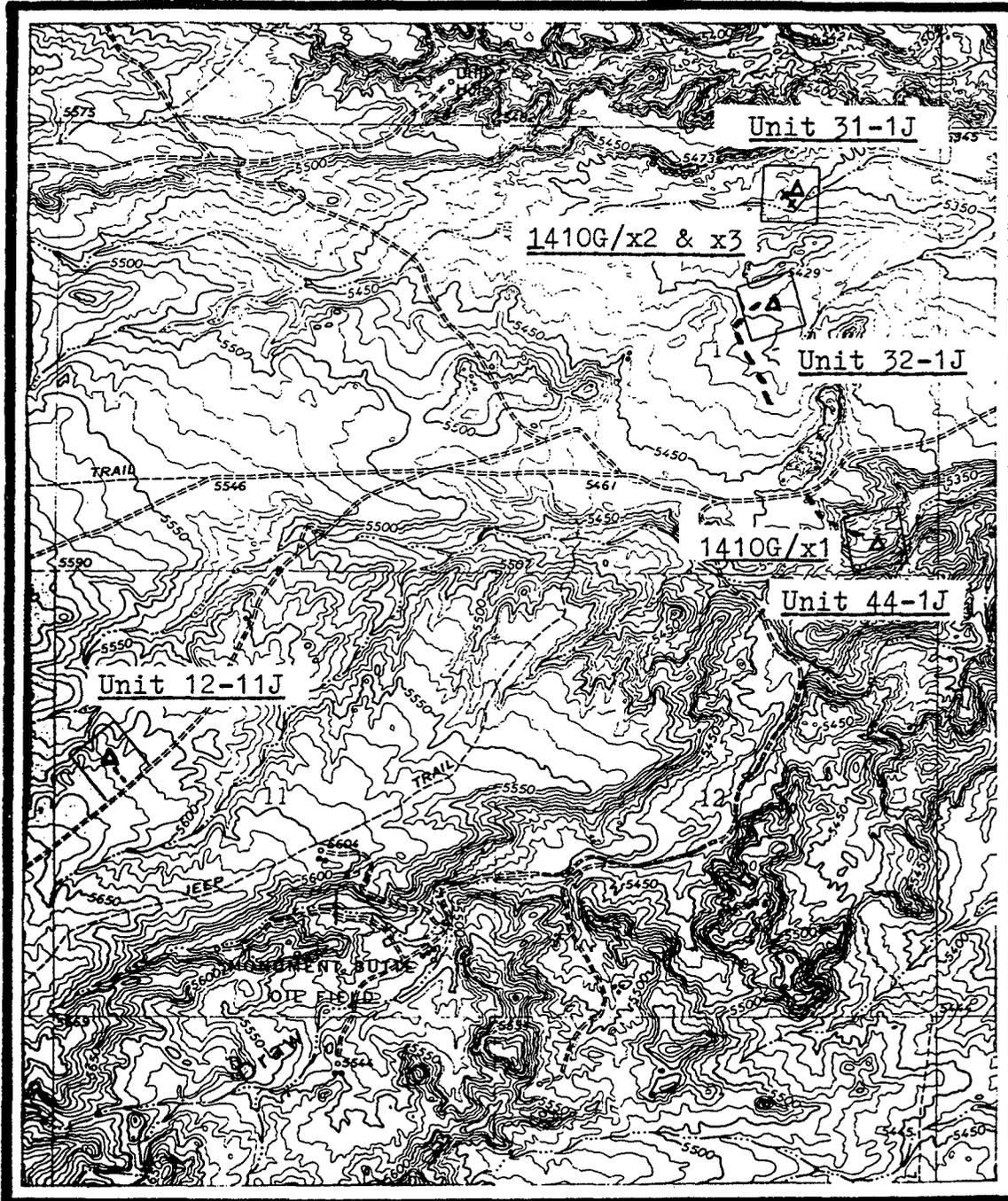
### Project Location

The project location is in the Monument Buttes locality of Duchesne County, Utah. It is situated on the Myton SE 7.5 minute topographic quad. The proposed drilling locations are situated in the following sections:

Balcron Monument Federal #31-1J is located in the NW - NE of Section 1, T. 9 So., R. 16 E. (see Map 1)

Balcron Monument Federal #32-1J is located in the SW - NE of Section 1, T. 9 So., R. 16 E. and includes ca. 1500 feet of access road (see Map 1)

Balcron Monument Federal #44-1J is located in the SE - SE of Section 1, T. 9 So., R. 16 E. and includes ca. 700 feet of access road (see Map 1)



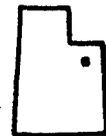
T. 9 South  
 R. 16 East  
 Meridian: SL  
 Quad: Myton  
 SE, Utah

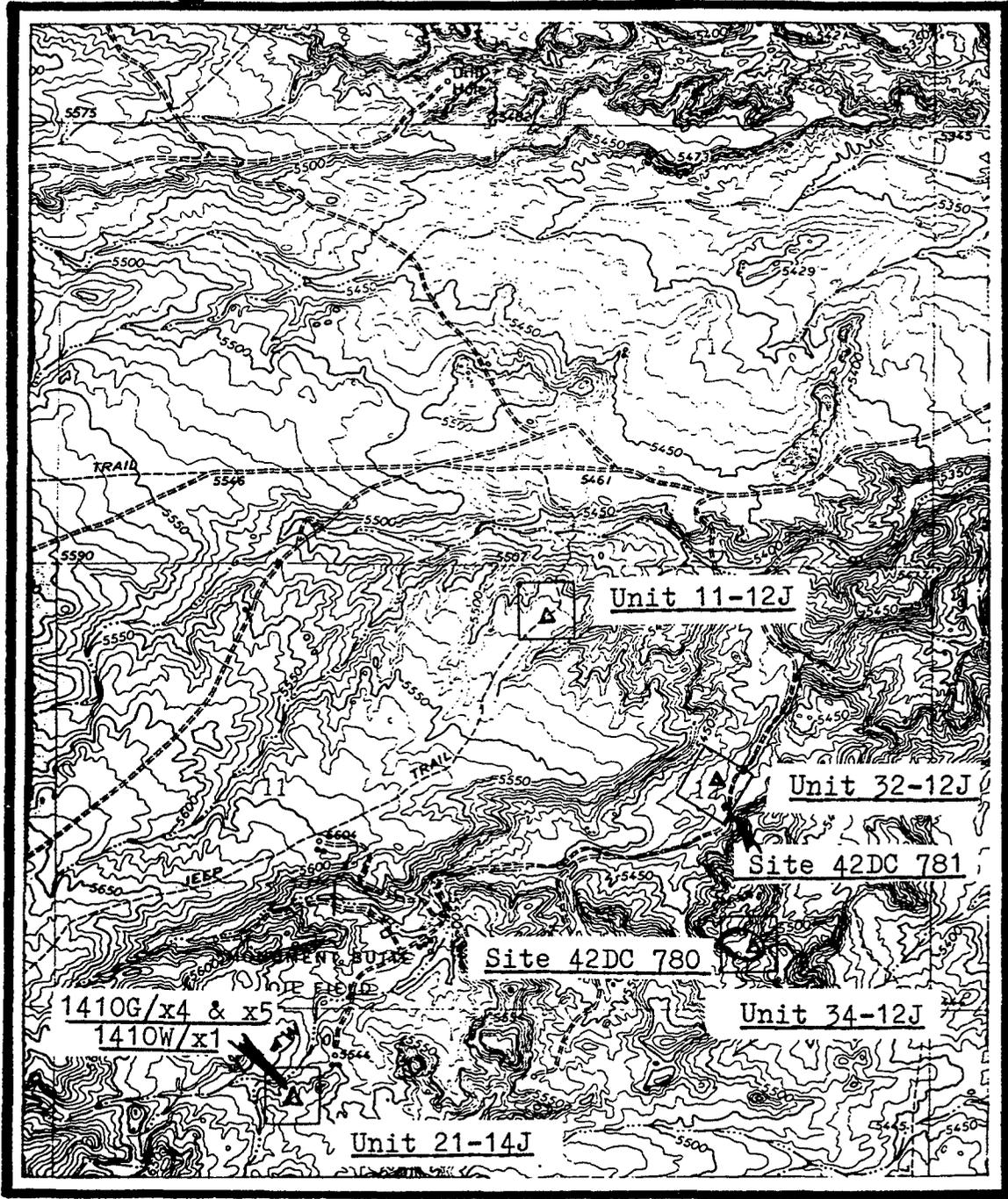
**MAP 1**  
 Cultural Resource Survey  
 of Proposed Drilling Units  
 in the Monument Butte  
 Locality of Duchesne Co.

- Legend:**
- Well Location 
  - Access Route 
  - 10 Acre Survey Area 
  - Isolated Artifact 



**Project:** Scale: 1:24000  
**Series:** BICR-93-9  
**Date:** Uinta Basin  
 11-15-93





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

**MAP 2**  
 Cultural Resource Survey  
 of Proposed Drilling Units  
 in the Monument Butte  
 Locality of Duchesne Co.

- Legend:**
- Well Location
  - Access Route
  - 10 Acre Survey Area
  - Cultural Site
  - Isolated Artifact

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**Project:** BLCR-93-9  
**Series:** Uinta Basin  
**Date:** 11-15-93

**Scale:** 1:24000  
 3



Balcron Monument Federal #12-11J is located in the SW - NW of Section 11, T. 9 So., R. 16 E. (see Map 1)

Balcron Monument Federal #11-12J is located in the NW - NW of Section 12, T. 9 So., R. 16 E. and includes ca. 1800 feet of access road (see Map 2)

Balcron Monument Federal #32-12J is located in the SW - NE of Section 12, T. 9 So., R. 16 E. (see Map 2)

Balcron Monument Federal #34-12J is located in the SW - SE of Section 12, T. 9 So., R. 16 E. and includes ca. 500 feet of access road (see Map 2)

Balcron Monument Federal #21-14J is located in the NE - NW of Section 14, T. 9 So., R. 16 E. and includes ca. 200 feet of access road (see Map 2)

### Environmental Description

The project area is within the 5300 to 5600 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project area.

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

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

### PREVIOUS RESEARCH IN THE LOCALITY

#### File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on October 18, 1993. A similar search was conducted in the Vernal District Office of the BLM on October 29, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Monument Buttes / Castle Peak Draw locality. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Norman and Hauck 1980). Other sites have been located and recorded by AERC and other archaeological consultants during oil and gas exploration inventories.

## Prehistory and History of the Cultural Region

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

## Site Potential in the Project Development Zone

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

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

## FIELD EVALUATIONS

### Methodology

Intensive evaluations consisted of the archaeologists walking a series of 10 to 20 meter-wide transects across a 10 acre area covering each well pad. In addition, access routes were surveyed by the archaeologists walking a pair of 10 to 15 meter wide transects on each side of the flagged access route right of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 10.79 acres) was examined for the total ca. 4700 foot length of proposed access road, in addition to the eighty acres inventoried on the well pads for a total of 90.79 acres.

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

Two prehistoric cultural resource activity loci were observed and recorded during the archaeological evaluations. These two sites include 42DC 780 and 42DC 781. A brief summary of each site can be provided as follows:

### Site 42DC 780 (see Map 2)

Site 42DC 780 is an extensive lithic scatter and sheltered occupation located within the development zone of Monument Federal Unit #34-12J. Site 42DC 780 consists of a 120 x 60 meter lithic scatter and shallow rock shelter complex. Isolated flakes are located up to 200 meters from the main locus. Artifacts are composed mainly of Parachute Creek Chert cores and flakes in all stages of lithic tool manufacture. Figure 1 is a sketch of a knife fragment manufactured from Parachute Creek Formation chert. This scatter appears to be the result of hunting, limited occupation and lithic procurement activities and is probably of Archaic date ranging in age between 1500 and 5000 years old. No artifacts were collected from this site.

This site is a significant cultural resource locus. Extensive subsurface deposits are present and include hearth areas. Some vandalism in the form of collectors piles were noted, however, numerous artifacts and features remain in an undisturbed context. The site qualifies under criterion d of Title 36 CFR 60.6 (see preceding section).

The butte where Unit 34-12J and Site 42DC 780 are located is too restricted to permit relocation of the proposed well pad in such a position as to avoid adverse impact to this cultural resource. Since avoidance is not a viable alternative, Site 42DC 780 will be subjected to primary or direct disturbance and exposed to secondary or indirect destruction (vandalism) should the proposed development of Unit 34-12J be initiated at this location without the implementation of a detailed archaeological recovery program to mitigate these potential adverse impacts.

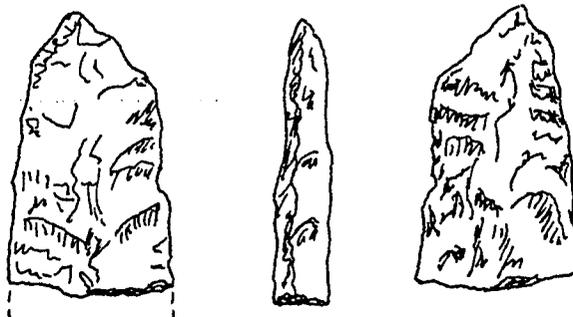


FIGURE 1: Knife Fragment -- Site 42DC 780  
(actual size)

Site 42DC 781 (see Map 2)

Site 42DC 781 consists of a small lithic scatter located outside the development zone of Monument Federal Unit #32-12J. Site 42DC 781 is a 2 x 2 meter scatter of debitage consisting of five primary flakes of Parachute Creek chert. It is located near a rock overhang at the bottom of Castle Peak Draw.

This site is considered to be a non-significant cultural resource since it contains no potential for soil depth, no features, no occupational surfaces, and no diagnostic artifacts. This site does not qualify as a candidate for nomination to the National Register of Historic Places under any of the criteria as established in Title 36 CFR 60.6.

This non-significant site is outside the development area and will not be affected by the proposed development of Unit 32-12J.

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

No paleontological loci were observed or recorded during the evaluations.

Six isolated artifacts were recorded during the evaluations. None of these artifacts were collected. A brief description of these six artifacts follows:

Isolate 1410G/x1 (see Figure 2) consists of a non-diagnostic bifacially flaked ignimbrite stone tool. This artifact was located outside the development zone of Unit 44-1J (see Map 1).

Isolate 1410G/x2 (see Figure 3) is a non-diagnostic unifacially retouched flake scraper made from Parachute Creek chert. It was located within the development area for Unit 31-1J (see Map 1).

Isolate 1410G/x3 (see Figure 4) is a primary flake which was also constructed from parachute creek chert. Like Isolate 1410G/x2, this artifact was located within the development zone of Unit 31-1J (see Map 1).

Isolate 1410G/x4 (see Figure 5) consists of a biface blank fragment constructed from parachute creek chert. Like Isolate 1410G/x5, this artifact was located within the development zone of Unit 21-14J (see Map 2).

Isolate 1410G/x5 (see Figure 6) is a secondary flake which was also constructed from parachute creek chert. Like Isolate 1410W/x1, this artifact was located within the development zone of Unit 21-14J (see Map 2).

Isolate 1410W/x1 (see Figure 7) is a biface blank fragment which was also constructed from parachute creek chert. Like Isolates 1410G/x4 and x5, this artifact was located within the development zone of Unit 21-14J (see Map 2).

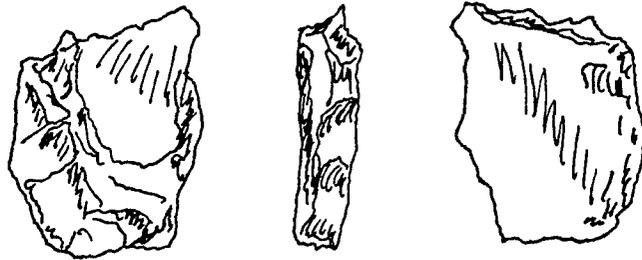


FIGURE 2: Isolated Artifact 1410G/x1  
(actual size)

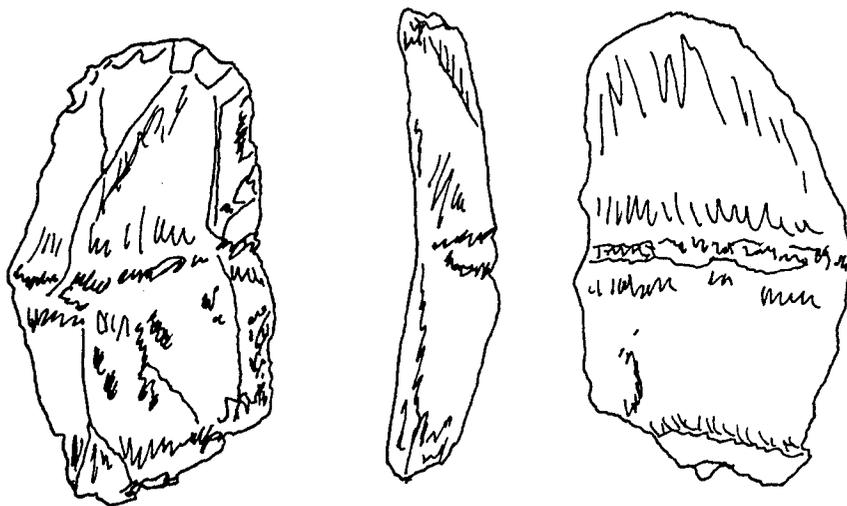


FIGURE 3: Isolated Artifact 1410G/x2  
(actual size)

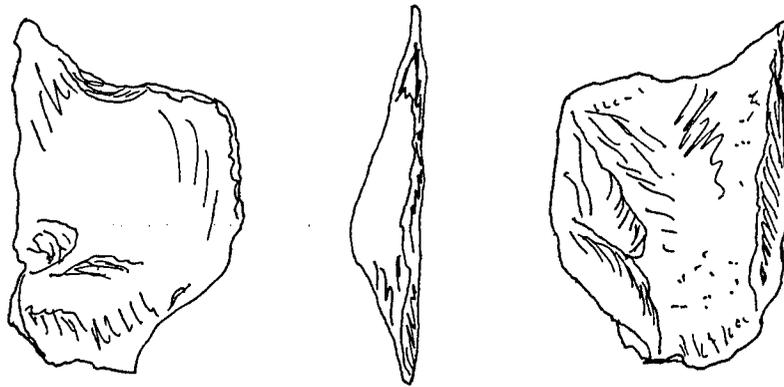


FIGURE 4: Isolated Artifact 1410G/x3  
(actual size)

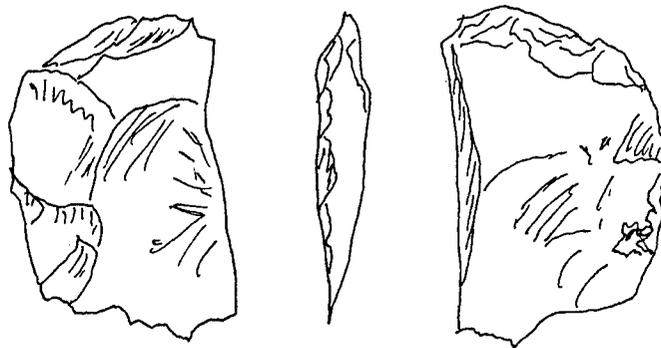


FIGURE 5: Isolated Artifact 1410G/x4  
(actual size)

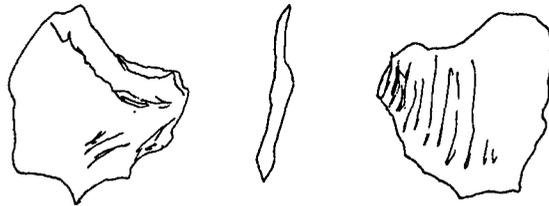


FIGURE 6: Isolated Artifact 1410G/x5  
(actual size)

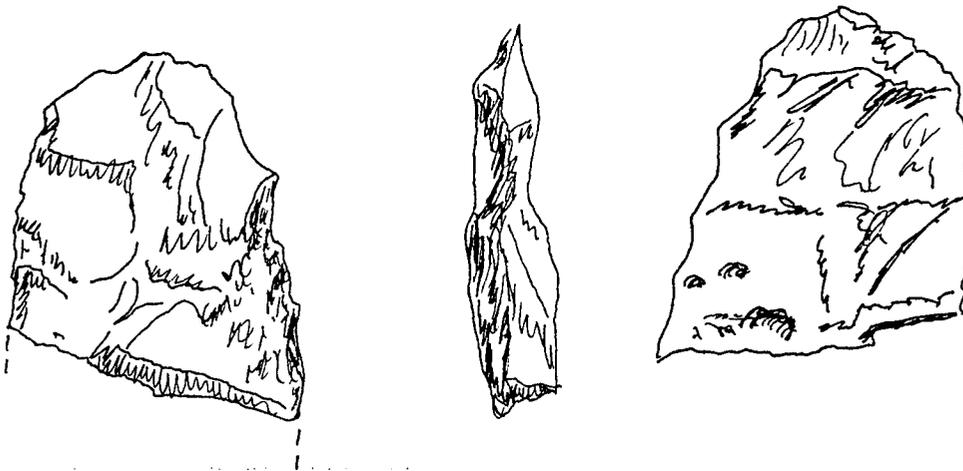


FIGURE 7: Isolated Artifact 1410W/x1  
(actual size)

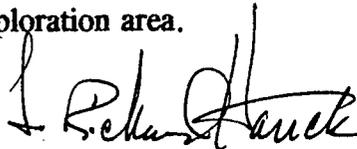
## CONCLUSION AND RECOMMENDATIONS

Site 42DC 780, a significant prehistoric resource, cannot be avoided by moving the location of proposed Unit 34-12J since both the site and the well location occupy the top of an isolated butte. The development of Unit 34-12J will result in the destruction of Site 42DC 780 unless the adverse effect is adequately mitigated through the initiation of an archaeological recovery program.

No known significant cultural or paleontological resources will be adversely impacted during the development and operation of Balcron Units 31-1J, 32-1J, 44-1J, 12-11J, 11-12J, 32-12J, and 21-14J as evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the developments of these eight proposed drilling locations based upon adherence to the following stipulations:

1. Should Balcron determine that the initiation of drilling activities on Unit 34-12J should proceed, AERC recommends that an extensive testing and artifact recovery program be implemented on this site prior to the construction period. Such a program should map the complete site including a point-plot map of all surface artifacts. In addition, the archaeological recovery program should section existing fire hearths to recover radiometric samples and to document all buried cultural contexts associated with those hearths. The stabilized dune deposits on the site should be test excavated in order to determine the presence of buried cultural contexts which could be disrupted during the construction of adjacent Unit 34-12J or could be vandalized by collectors during the construction phase or after completion of the drilling site.
2. 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.
3. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
4. 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.



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Investigator

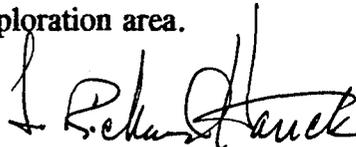
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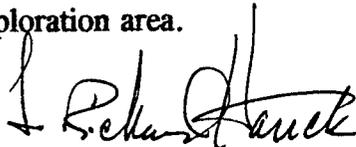
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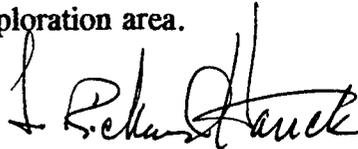
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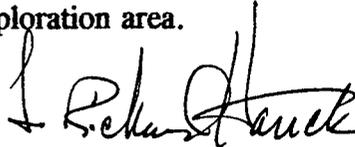
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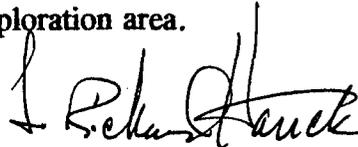
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- 1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/22/93

API NO. ASSIGNED: 43-013-31420

WELL NAME: BALCRON MONUMENT FED. 34-12J  
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:  
SWSE 12 - T09S - R16E  
SURFACE: 0796-FSL-2175-FEL  
BOTTOM: 0796-FSL-2175-FEL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

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

LEASE TYPE: FED  
LEASE NUMBER: U-035521

RECEIVED AND/OR REVIEWED:

Plat  
 Bond  
(Number FEDERAL)

Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
(Number BY SUNDAY)

RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

R649-2-3. Unit: UTU 72046A

R649-3-2. General.

R649-3-3. Exception.

Drilling Unit.  
Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS: WELL IS NOT PART OF 1993 POD  
Included in 1994 POD

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

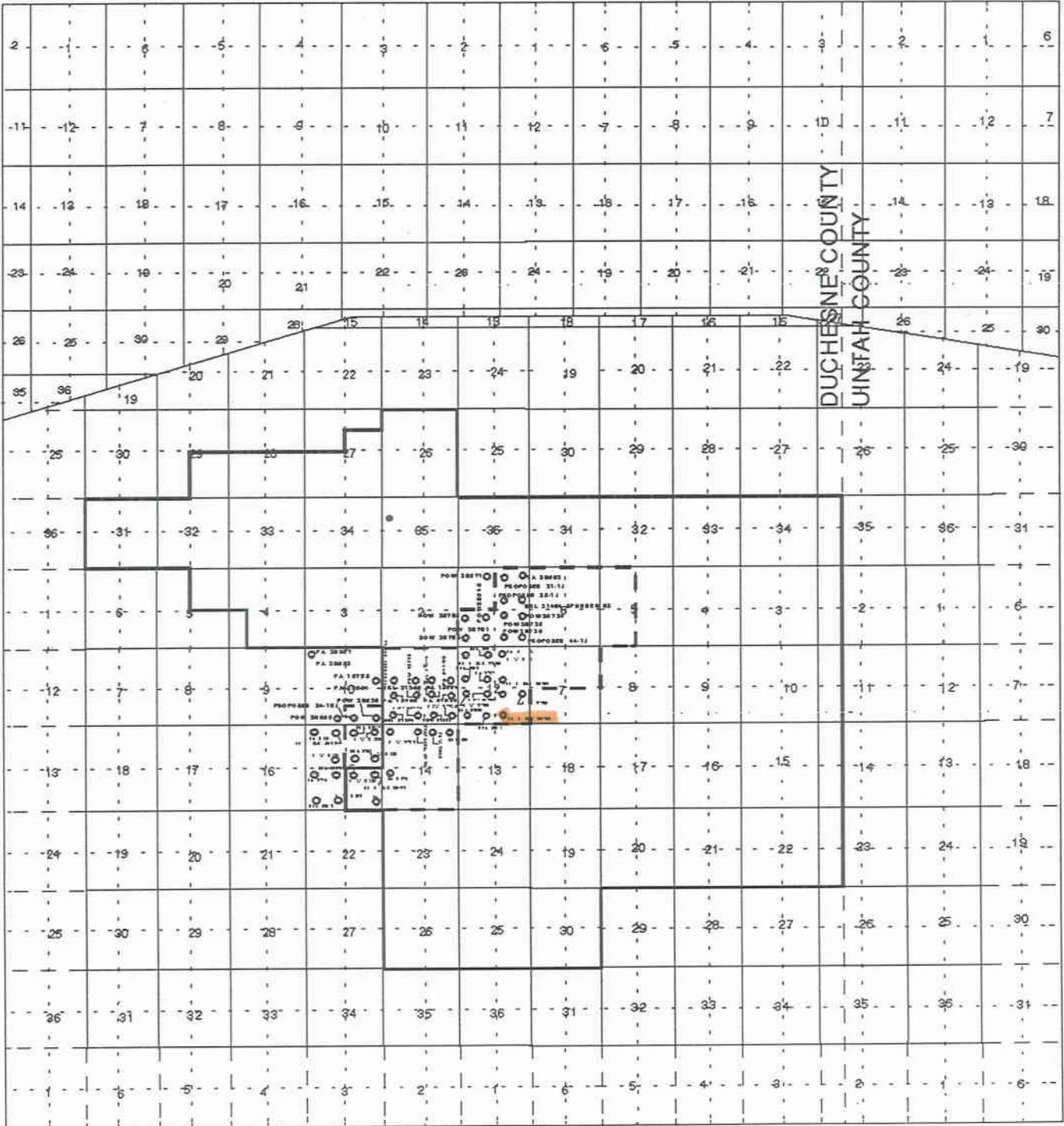
\_\_\_\_\_

\_\_\_\_\_

# MONUMENT BUTTE

T 1 W

R 1 E



T 4 S

T 8 S

T 9 S

R 16 E

R 17 E

DUCHESNE COUNTY  
FIELD 105 ACTIVE



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 18, 1993

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

Gentlemen:

We are sending, under separate cover, copies of the archeological survey that has been conducted for the wells on the attached list. These are to be considered a part of the Applications for Permit to Drill those wells.

Sincerely,

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

cc: Utah Division of Oil, Gas and Mining

RECEIVED

NOV 19 1993

DIVISION OF  
OIL, GAS & MINING

Balcron Monument Federal #31-1J  
NW NE Section 1, T9S, R16E  
Duchesne County, Utah  
660' FNL, 1980' FEL  
FLS #U-33992

Balcron Monument Federal #32-1J  
SW NE Section 1, T9S, R16E  
Duchesne County, Utah  
2143' FNL, 1987' FEL  
FLS #U-33992

Balcron Monument Federal #44-1J  
SE SE Section 1, T9S, R16E  
Duchesne County, Utah  
338 FSL, 859' FEL  
FLS #U-44426

Balcron Monument Federal #12-11J  
SW NW Section 11, T9S, R16E  
Duchesne County, Utah  
2128' FNL, 689' FWL  
FLS #U-096550

Balcron Monument Federal #11-12J  
NW NW Section 12, T9S, R16E  
Duchesne County, Utah  
660' FNL, 660' FWL  
FLS #U-096550

Balcron Monument Federal #32-12J  
SW NE Section 12, T9S, R16E  
Duchesne County, Utah  
1804.8' FNL, 2138.6' FEL  
FLS #U-035521

Balcron Monument Federal #34-12J  
SW SE Section 12, T9S, R16E  
Duchesne County, Utah  
796.4' FSL, 2175.5' FEL  
FLS #U-035521

Balcron Monument Federal #21-14J  
NE NW Section 14, T9S, R16E  
Duchesne County, Utah  
517.8' FNL, 1850.2' FWL  
FLS #U-096547

43-013-31420

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions  
reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
796.4' FSL, 2175.5' FEL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 16 miles SW of Myton, UT

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

18. NO. OF ACRES IN LEASE  
19. PROPOSED DEPTH  
6,000' 5800'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5524.1' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

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

EXHIBITS ATTACHED

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

RECEIVED  
OCT 22 1993

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

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

24. SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE October 20, 1993  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE DEC 22 1993  
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

## WELL LOCATION INFORMATION

Company/Operator: Equitable Resources Energy Company  
API Number 43-013-31420  
Well Name & Number: 34-12J  
Lease Number: U-035521  
Location: SWSE Sec. 12 T. 9S R. 16E  
Surface Ownership: Federal

## 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

Company Equitable Resources Energy Company Well No. Balcron Federal 34-12J

Location SWSE Section 12, T9S, R16E Lease No. U - 035521

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

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

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

A. DRILLING PROGRAM

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

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

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

2. Pressure Control Equipment

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

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

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

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

#### 6. Notifications of Operations

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

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

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

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

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

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

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

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

Refinery wastes

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

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## CONDITIONS OF APPROVAL

- \* The requested emergency pit is hereby approved under Onshore Order No. 7, subject to the following Conditions of Approval:
  1. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards 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.
  2. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.
  
- \* If paleontologic resources are found or uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.
  
- \* Due to archaeological finds on this location the Vernal District archaeologist requests this site not be drilled. If the operator insists on drilling the 34-12J well as planned, a 45 day consultation must be conducted as required by the National Historic Preservation Act. And extensive salvage operations conducted on site to mitigate the disturbance to the archaeological materials. Contact the Authorized Officer to initiate the consultation procedure.
  
- \* Due to raptor use in the area the wildlife specialist for the Vernal District requests the pump motor to be equipped with a muffler to reduce the noise levels.
  
- \* A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.
  
- \* The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.
  
- \* The BLM Office shall be notified upon site completion prior to moving on the drilling rig.



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)

November 22, 1993

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

Re: Balcron Monument Federal #34-12J Well, 796' FSL, 2175' FEL, SW SE, Sec. 12, T. 9 S., R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or Mike Hebertson, Oil and Gas Field Specialist, (Home) (801)269-9212.



Page 2  
Equitable Resources Energy Company  
Balcron Monument Federal #34-12J Well  
November 22, 1993

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

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31420.

Sincerely,



R.J. Birt  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Duchesne County Assessor  
Bureau of Land Management, Vernal  
WO11

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

Type of Well  
 Oil Well     Gas Well     Other

Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

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

Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW SE Section 12, T9S, R16E  
  
796.4' FSL, 2175.5' FEL

5. Lease Designation and Serial No.  
U-035521

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

7. If Unit or CA, Agreement Designation  
Jonah Unit

8. Well Name and No.  
Balcron Monument Federal #134-12J

9. API Well No.  
43-013-31420

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

11. County or Parish, State  
Duchesne County, Utah

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>identification of chemicals</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.)

3. 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.)\*

See attached

RECEIVED

DEC 03 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 December 1, 1993

(This space for Federal or State office use)

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

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

\*See instruction on Reverse Side

ATTACHMENT TO SUNDRY NOTICE

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

Cement (cement and associated additives)  
Crude oil (produced hydrocarbons)  
Diesel (fuels)  
Fly ash (cement and associated additives)  
Gasoline (fuels)  
Hydrochloric acid (acids, organic)  
Lime (cement and associated additives)  
Potassium chloride (salt solutions)

We anticipate that it is possible that the 10,000 pound threshold of the above chemicals could be met or exceeded in these operations. With the exception of crude oil, all chemicals used will be in the normal course of drilling and completion operations and will be provided by service companies subcontracted by the operator. Storage, transportation, and disposal of any of these chemicals will be handled by such service companies. It is anticipated that drilling of this well will produced crude oil.

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

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

12/1/93  
/rs



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

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

RECEIVED

DEC 03 1993

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

DIVISION OF  
OIL, GAS & MINING

December 1, 1993

-- VIA FEDERAL EXPRESS --

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

*BALCRON Monument Federal 34-12J  
43-013-31420  
Sec 12, T9S, R16E*

Gentlemen:

In response to APD deficiency letters for wells on the enclosed list, enclosed are sundry notices giving identification of chemicals. Also noted on that list are specific comments on archeological reports, Plan of Development, and Right-of-Way where applicable. There were three requests for archeological reports which were submitted with the APDs (see EXHIBIT "M" of those APDs). Please confirm that you did receive those with the APDs.

Thank you.

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

NINTH BATCH

=====

Balcron Monument Federal #32-12J  
SW NE Section 12, T9S, R16E  
Duchesne County, Utah  
1804.8' FNL, 2138.6' FEL  
FLS #U-035521  
PTD: 5,800'  
GL 5413'

Archeological Report sent 11/18/93  
POD has been approved

Balcron Monument Federal #34-12J  
SW SE Section 12, T9S, R16E  
Duchesne County, Utah  
796.4' FSL, 2175.5' FEL  
FLS #U-035521  
PTD: 5,800'  
GL 5524.1'

Archeological Report sent 11/18/93  
POD has been approved

Balcron Monument Federal #21-14J  
NE NW Section 14, T9S, R16E  
Duchesne County, Utah  
517.8' FNL, 1850.2' FWL  
FLS #U-096547  
PTD: 5,750'  
GL 5592.5'

Archeological Report sent 11/18/93  
POD has been approved

Balcron Monument Federal #34-10J  
SW SE Section 10, T9S, R16E  
Duchesne County, Utah  
592' FSL, 1979.2' FEL  
FLS #U-017985  
PTD: 5,850'  
GL 5,717.7'

Archeological Report submitted with  
APD -- see EXHIBIT "M"  
POD has been approved

Balcron Monument Federal #31-1J  
NW NE Section 1, T9S, R16E  
Duchesne County, Utah  
660' FNL, 1980' FEL  
FLS #U-33992  
PTD: 5,950'  
GL 5368.1'

Archeological Report sent 11/18/93  
POD has been approved  
ROW applied for 11/12/93

Balcron Monument Federal #32-1J  
SW NE Section 1, T9S, R16E  
Duchesne County, Utah  
2143' FNL, 1987' FEL  
FLS #U-33992  
PTD: 5,950'  
GL 5398.4'

Archeological Report sent 11/18/93  
POD has been approved

Balcron Monument Federal #44-1J  
SE SE Section 1, T9S, R16E  
Duchesne County, Utah  
338 FSL, 859' FEL  
FLS #U-44426  
PTD: 5,900'  
GL 5372.1'

Archeological Report sent 11/18/93  
POD has been approved  
New APD face page sent 11/16/93

Balcron Monument Federal #12-11J  
SW NW Section 11, T9S, R16E  
Duchesne County, Utah  
2128' FNL, 689' FWL  
FLS #U-096550  
PTD: 5,700'  
GL 5617.2'

Archeological Report sent 11/18/93  
POD has been approved

Balcron Monument Federal #11-12J  
NW NW Section 12, T9S, R16E  
Duchesne County, Utah  
660' FNL, 660' FWL  
FLS #U-096550  
PTD: 5,900'  
GL 5516.1'

Archeological Report sent 11/18/93  
POD has been approved



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

December 8, 1993

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

Enclosed are sundry notices forwarding paleontology reports of wellpad location and access roads for the following:

Balcron Monument Federal #44-1J  
Balcron Monument Federal #34-12J 43-013-31420  
Balcron Monument Federal #32-12J  
Balcron Monument Federal #32-1J  
Balcron Monument Federal #31-1J  
Balcron Monument Federal #21-14J  
Balcron Monument Federal #12-11J  
Balcron Monument Federal #11-12J

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

**CONFIDENTIAL**

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

RECEIVED

DEC 10 1993

DIVISION OF  
OIL, GAS & MINING

160-5  
990)

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

Type of Well  
 Oil Well  Gas Well  Other

Name of Operator  
Equitable Resources Energy Company, Balcon Oil Division

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

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

SW SE Section 12, T9S, R16E

796.4' FSL, 2175.5' FEL

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

5. Lease Designation and Serial No.

U-035521

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcon Monument Federal #134-12J

9. API Well No.

43-013-31420

10. Field and Pool, or Exploratory Area

Monument Butte/ Green River

11. County or Parish, State

Duchesne County, Utah

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 paleo report

- 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.)

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

Attached is the paleontology report of the wellpad location and access road.

I hereby certify that the foregoing is true and correct

Signed Sobbie Schuman

Coordinator of Environmental  
and Regulatory Affairs

Date December 8, 1993

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Section 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

Balcron Monument Federal #34-12J

SW SE Section 12, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

DECEMBER 4, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #34-12J

Description of Geology and Topography-

This well location is approximately 10 1/2 miles south of Myton, Utah. It is on a ridge about 1/4 mile south of Castle Peak Draw. The highest point on the ridge is about 130 feet above Castle Peak Draw. Rocks in the immediate area of the proposed wellpad and road are composed of interbedded sandstone, and mudstone.

The road starts off from another well location and follows the east side of the ridge on a brown-gray sandy mudstone south and southeast to the location. A tan to rusty colored stream channel sandstone sits on the ridge above the proposed road. The wellpad is on a fairly flat spot forming a saddle on the ridge. The ridge is capped with sandstone both north and south of this saddle. The wellpad is covered with sand on the north side with bedrock close to the surface. There are two ravines on the south end. One at the southeast corner draining east and one at the southwest corner draining west.

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

Paleontological material found -

The proposed access road has a few weather pieces of turtle shell. There were no fossil found on the wellpad. Weathered turtle shell was seen eroding out of the brown-gray slope northwest of the pit area. There were also a few turtle shell fragments in the ravine southwest of the wellpad.

Recommendations-

The fossil material found will be recorded as a fossil locality, but construction of the road and wellpad as staked will not impact this material. No other recommendations are made for this location.

Alfred H. Humble

Date December 6, 1993

## PALEONTOLOGY LOCALITY

## Data Sheet

Page 1 of 1 plus map

State Local. No. 42 DC 151 V

Agency No.

Temp. No BALCRON MONUMENT BUTTE  
FEDERAL #34-12J

Other \_\_\_\_\_

1. Type of locality  
Invertebrate

Plant

Vertebrate

X

Trace

2. Formation: UINTA

Horizon: "B"

Geologic Age: Late Eocene

3. Description of Geology and Topography: This location is on a ridge about 1/4 mile south of Castle Peak Draw. The highest point on the ridge is about 130 feet above Castle Peak Draw. Rocks in the immediate area of the proposed wellpad and road are composed of interbedded sandstone, and mudstone.

The road starts off from another well location and follows the east side of the ridge on a brown-grey sandy mudstone south and southeast to the location. A tan to rusty colored stream channel sandstone sits on the ridge above the proposed road. The wellpad is on a fairly flat spot forming a saddle on the ridge. The ridge is capped with sandstone both north and south of this saddle. The wellpad is covered with sand on the north side with bedrock close to the surface. There are two ravines on the south end. One at the southeast corner draining east and one at the southwest corner draining west.

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

4. Location of Outcrop: 10 1/2 miles south of Myton, Utah.

5. Map Ref. USGS Quad Myton SE, Utah Scale 7.5 Min Edition 1964

NW1/4	&	SW1/4	of	SE1/4	of Sectn	12	T	9 S	R	16E	Meridn	SLB
-------	---	-------	----	-------	----------	----	---	-----	---	-----	--------	-----

6. State: UTAH County: DUCHESNE COUNTY BLM/FS District: VERNAL- DIAMOND MT.

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: The proposed access road has a few weather pieces of turtle shell. There were no fossils found on the wellpad. Weathered turtle shell was seen eroding out of the brown-gray slope northwest of the pit area. There were also a few turtle shell fragments in the ravine southwest of the wellpad.

10. Owner:	State	BLM	X	US	NPS	IND	MIL	OTHR
Private				FS				

11. Recommendations for Further Work or Mitigation: The fossil material found will be recorded as a fossil locality, but construction of the road and wellpad as staked will not impact this material. No other recommendations are made for this location.

12. Type of Map Made by Recorder:

13. Disposition of Photo Negatives:

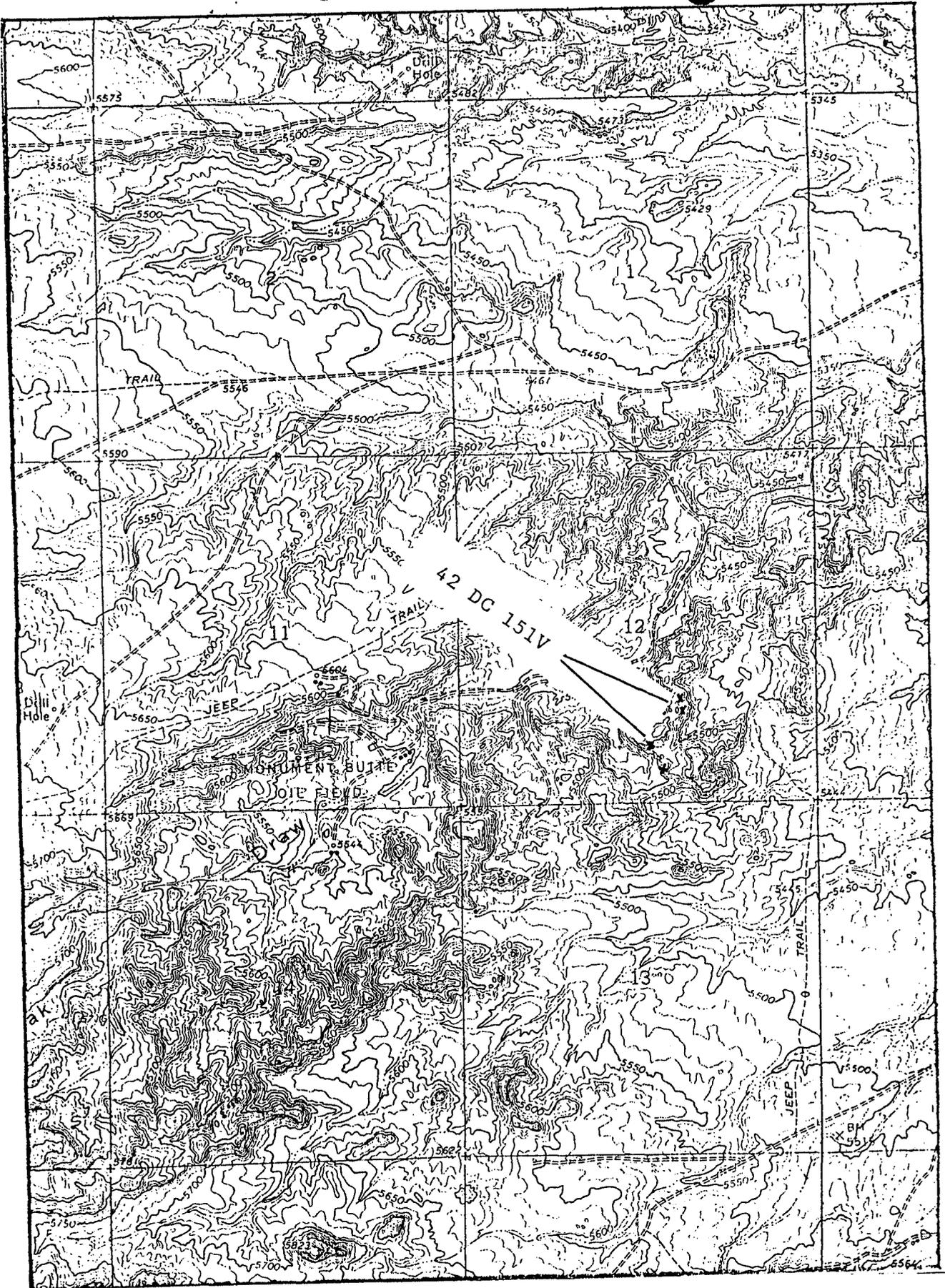
14. Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.

15. Remarks:

16. Sensitivity:	Critical	Significant	Important	X	Insignificant
------------------	----------	-------------	-----------	---	---------------

17. Recorded by: Alden Hamblin,  
Paleontologist

Date: October 28, 1993



42 DC 151V

BALCRON OIL MONUMENT BUTTE FEDERAL #34-12J  
SW SE SEC. 12, T9S, R16E, SLB&M MYTON SE, UT QUAD



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

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

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

CONFIDENTIAL

August 11, 1994

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

BALCRON MONUMENT Fed 24-12 J  
Sec 12 T9S R16E

Gentlemen:

43-013-31420

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

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

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

Sincerely,

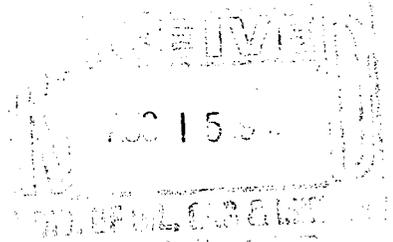
*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

See attached listing

6. If Indian, Allottee or Tribe Name

n/a

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

See attached listing

1. Type of Well

Oil Well  Gas Well  Other

8. Well Name and No.

See attached listing

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.

See attached listing

3. Address and Telephone No.

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

10. Field and Pool, or Exploratory Area

See attached listing\*

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

See attached listing

11. County or Parish, State

See attached listing

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

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

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

\*Formation (pool): Green River

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

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

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

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

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

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

Signed Bobbie Schuman

Title Regulatory and Environmental Specialist

Date 8-10-94

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Have approved APDs but not yet drilled (continued)

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

Balcron Monument Federal #31-1J  
NW NE Section 1, T9S, R16E  
Duchesne County, Utah  
660' FNL, 1980' FEL  
FLS #U-33992  
Monument Butte Field  
Jonah Unit  
API #43-013-31413

Balcron Monument Federal #32-1J  
SW NE Section 1, T9S, R16E  
Duchesne County, Utah  
2143' FNL, 1987' FEL  
FLS #U-33992  
Monument Butte Field  
Jonah Unit  
API #43-013-31414

Balcron Monument Federal #11-12J  
NW NW Section 12, T9S, R16E  
Duchesne County, Utah  
660' FNL, 660' FWL  
FLS #U-096550  
Monument Butte Field  
Jonah Unit  
API #43-013-31418

Balcron Monument Federal #34-12J  
SW SE Section 12, T9S, R16E  
Duchesne County, Utah  
796.4' FSL, 2175.5' FEL  
FLS #U-035521  
Monument Butte Field  
Jonah Unit  
API #43-013-31420

CONFIDENTIAL



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

January 12, 1995

-- VIA FAX and FEDERAL EXPRESS --

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

Gentlemen:

We hereby request extensions of the Applications for Permit to Drill the following wells:

- Balcron Monument Federal #11-12J (expires 12/13/94)
- Balcron Monument Federal #34-12J (expires 12/22/94) *43-012-31420*
- Balcron Monument Federal #43-15J (expires 12/16/94) *Sec 12 T95 R 16E*
- Balcron Monument Federal #31-1J (expires 12/16/94)
- Balcron Monument Federal #34-7J (expires 2/2/95)
- Balcron Monument Federal #42-18 (expires 1/20/95)

It is obvious that the expiration dates on several of these APDs were overlooked by us. Your help in this matter will be most appreciated.

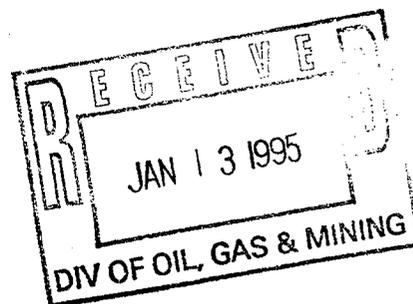
Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

cc: Utah Division of Oil, Gas and Mining



APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 1/17/95  
BY: [Signature]

1/23/96



# United States Department of the Interior

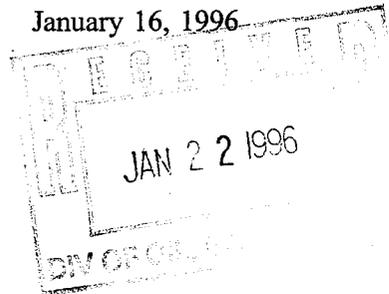
## BUREAU OF LAND MANAGEMENT

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

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:  
3162  
UT08438

January 16, 1996



DOGm  
LA date  
←

Equitable Resources Energy Company  
Attn: Bobbie Schuman  
P O Box 21017  
Billings MT 59104

Re: Notification of Expiration  
Well Balcron Monument Fed. 34-12J  
Section 12, T9S, R16E 43-013-31420  
Lease No. U-035521  
Duchesne County, Utah

Dear Ms. Schuman:

The Application for Permit to Drill the above-referenced well was approved on December 22, 1993. Equitable Resources Energy Company requested an extension of the original APD approval for an additional year. The request was reviewed and the extension approved until December 22, 1995. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Margie Herrmann  
Legal Instruments Examiner

cc: State Div. OG&M



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

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

FEB - 5 1996

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

January 30, 1996

Ms. Margie Herrmann  
Legal Instruments Examiner  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078-2799

Dear Ms. Herrmann:

This is to notify you that no surface disturbance has been made for the following proposed wellsites:

Balcron Monument Federal #11-12 (Lease #U-096550)  
✓ Balcron Monument Federal #34-12J (Lease #U-035521) - 43-013-31420 (LA'd 1/22/96)  
Balcron Monument Federal #43-15J (Lease #U-017985)

The Applications for Permit to Drill these wells have expired.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

cc: Utah Division of Oil, Gas and Mining