

UTAH OIL AND GAS CONSERVATION COMMISSION

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

*960410 Oper. Nm. Chg. 970722 LAD eff 4/21/97:*

DATE FILED **OCTOBER 17, 1994**

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. **UTU-69960** INDIAN \_\_\_\_\_

DRILLING APPROVED: **APRIL 27, 1995**

SPUDDED IN: \_\_\_\_\_

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: *April 21, 1997*

FIELD: **WILDCAT FIELD**

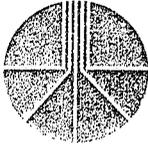
UNIT: **NA**

COUNTY: **MILLARD**

WELL NO. **ASP FEDERAL #1** APT NO. **43-027-30033**

LOCATION **1320' FSL** FT. FROM (N) (S) LINE. **1320' FWL** FT. FROM (E) (W) LINE. **C/SW** 1/4 - 1/4 SEC. **12**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				16S	19W	12	EQUIT RES ENERGY CO



EQUITABLE RESOURCES  
ENERGY COMPANY

**BALCRON OIL DIVISION**

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

OCT 17 1994

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

October 14, 1994

Bureau of Land Management  
150 East 900 N  
Richfield, UT 84701

Gentlemen:

RE: Asp Federal #1  
C/SW Section 12-T16S-R19W  
Millard County, Utah

Enclosed is our Application for Permit to Drill (APD) the referenced well.

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

If you have any questions or need additional information, please give me a call at (406) 259-7860.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

OCT 17 1994  
CONFIDENTIAL

1. Lease Designation and Serial No.  
Federal #UTU-69960

2. APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

3. Type of Work  
a. DRILL  DEEPEN  PLUG BACK   
b. Type of Well  
Oil Well  Gas Well  Other   
Single Zone  Multiple Zone

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

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

6. Location of Well (Report location clearly and in accordance with any State requirements.\*)  
At surface  
C/SW Section 12, T16S, R19W 1320' FSL, 1320' FWL  
At proposed prod. zone

7. Field and Pool, or Wildcat  
Wildcat/Paleozoic

8. County or Parrish | 9. State  
Millard | UTAH

10. Distance in miles and direction from nearest town or post office\*  
Approximately 2.3 miles from Warm Creek Ranch

11. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. line, if any)  
12. No. of acres in lease  
13. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.  
14. Proposed depth  
6,000

15. Rotary Cable Type  
Rotary

16. Elevations (Show whether DF, RT, GR, etc.)  
4813' GL

17. Approx. date work will start\*  
Upon APD approval

18. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See EXHIBIT "D" Drilling Program/Casing Design				

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

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

21. I hereby certify that this report is true and complete to the best of my knowledge.  
Signed Bobbie Schuman Regulatory and Environmental Specialist  
Bobbie Schuman Title Date 10-14-94

API NO. 43-027-30033  
Approved by [Signature] Approval Date 4/29/95  
Conditions of approval, if any: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

\*See Instructions On Reverse Side

WELL SPACING: \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCT 17 1984  
Other instructions on  
reverse side

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-69960

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

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

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

7. UNIT AGREEMENT NAME  
n/a

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

8. FARM OR LEASE NAME  
Asp Federal

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

9. WELL NO.  
#1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
C/SW Section 12, T16S, R19W 1320' FSL, 1320' FWL  
At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT  
Wildcat/Paleozoic

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 12, T16S, R19W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 2.3 miles from Warm Creek Ranch.

12. COUNTY OR PARISH  
Millard

13. STATE  
UTAH

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

18. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH  
6,000'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4813' GL

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

PROPOSED CASING AND CEMENTING PROGRAM

**CONFIDENTIAL**

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

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

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

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

24. SIGNED Robbie Schuman REGULATORY and ENVIRONMENTAL Specialist TITLE DATE 10-14-94

PERMIT NO. 43-027-30034 APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING APPROVAL DATE 4/27/95

APPROVED BY [Signature] BY: WELL SPACING:                     

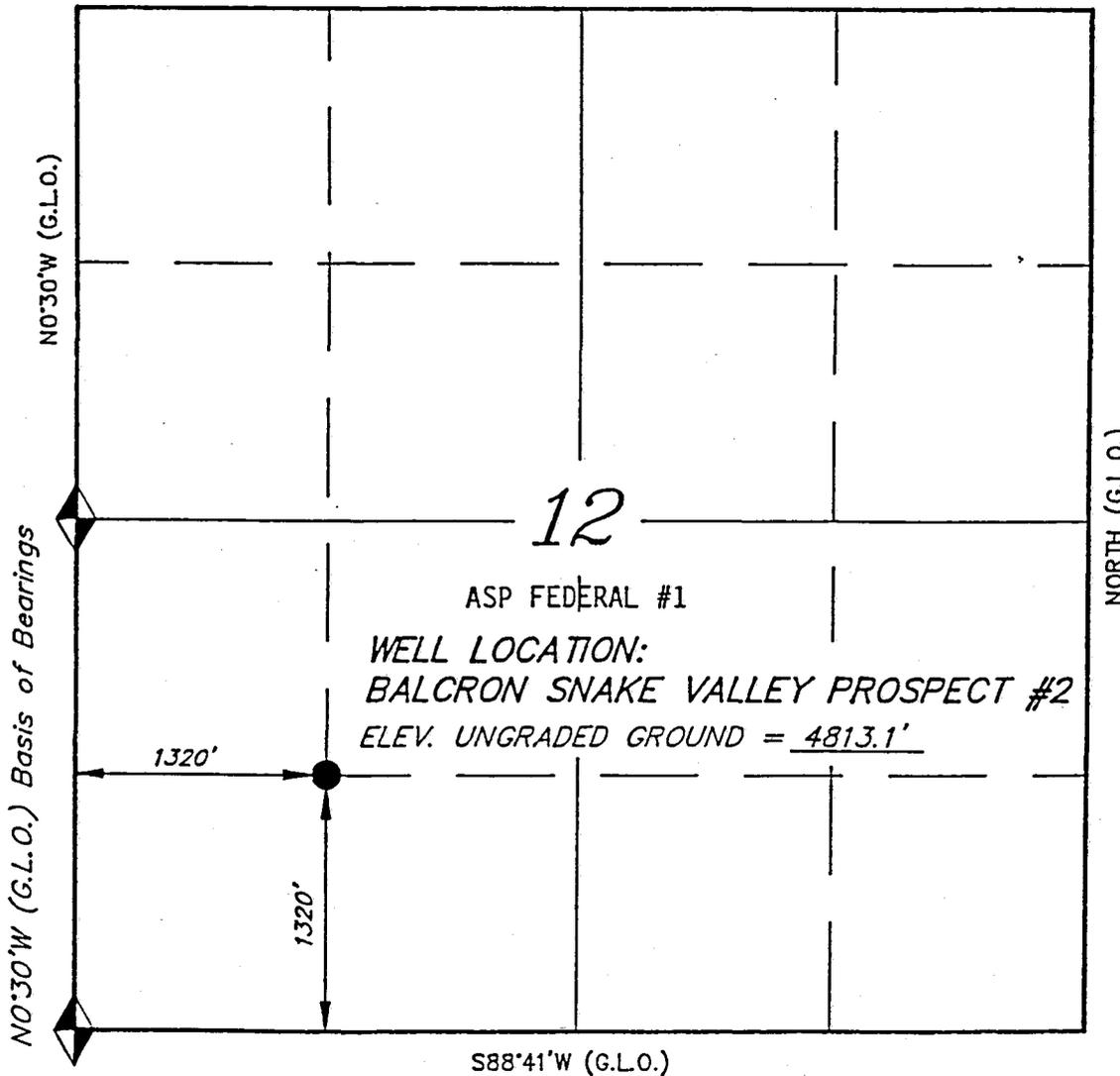
\*See Instructions On Reverse Side

T16S, R19W, S.L.B.&M.

S88°33'W (G.L.O.)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON SNAKE VALLEY PROSPECT #2, LOCATED AS SHOWN IN THE SW 1/4 OF SECTION 12, T16S, R19W, S.L.B.&M. MILLARD COUNTY, UTAH.



N0°30'W (G.L.O.)

N0°30'W (G.L.O.) Basis of Bearings

NORTH (G.L.O.)

ASP FEDERAL #1

WELL LOCATION:  
BALCRON SNAKE VALLEY PROSPECT #2  
ELEV. UNGRADED GROUND = 4813.1'

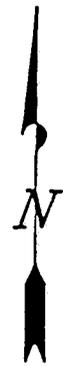
1320'

1320'

S88°41'W (G.L.O.)



= SECTION CORNERS LOCATED  
BASIS OF BEARINGS; G.L.O. PLAT  
BASIS OF ELEV; U.S.G.S. 15 min QUAD (GANDY, UTAH)



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

STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: S.S. S.D.
DATE: 7-18-94	WEATHER: HOT
NOTES:	FILE #SVP2

EXHIBIT "K"

EXHIBITS FOR ASP FEDERAL #1 WELL:

- A PROPOSED DRILLING PROGRAM
- B PROPOSED SURFACE USE PROGRAM
- C GEOLOGIC PROGNOSIS
- D DRILLING PROGRAM/CASING DESIGN
- E EVIDENCE OF BOND COVERAGE
- F HAZMAT DECLARATION
- G EXISTING & PLANNED ACCESS ROADS
- H WELLSITE LAYOUT/CUT & FILL DIAGRAM
- I BOPE SCHEMATIC
- J RIG LAYOUT
- K SURVEY PLAT
- L BLM MITIGATION MEASURES

10/13/94

# **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  
Asp Federal #1  
C/SW Section 12-T16S-R19W  
Millard 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:

Water can be expected throughout the Neogene (young Valley Fill) from 10' below surface to target formation (Paleozoic). The water should be relatively fresh and similar in salinity to surface waters coming from springs in the valley.

Oil or gas, if present, will be found only in rock formations beneath the base of the Valley Fill.

The boundary between the water in Valley Fill and the underlying hydrocarbons is a clay seal at the base of the Valley Fill that caps the hydrocarbon reservoirs. No mixing of the water above the seal and the hydrocarbons below the seal has been seen anywhere.

Also see Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

a. EXHIBIT "I" is a schematic of the BOP equipment and choke manifold. A 3M system will be used. The BOPE will be installed after setting 9-5/8" casing at 600'. 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 Valley Fill formation to approximately 600' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.00, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following attachment:

Drilling Program/Casing Design (EXHIBIT "D")

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

- a. Expected bottom hole temperature is 170 degrees F. Expected bottom hole pressure is 2700 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled in this area.
- c. An H<sub>2</sub>S contingency plan is being developed and will be submitted as soon as it is complete.

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 21 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.

SURFACE USE PROGRAM

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Asp Federal #1  
C/SW Section 12-T16S-R19W  
Millard County, Utah

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

1. EXISTING ROADS:

- a. From Highway 6 and 50, go east one mile and take the Gandy road north 30 miles. At the Warm Creek Ranch turn right and follow the dirt road for approximately 2.3 miles to proposed access road sign. Follow flags approximately 1.5 miles to location.
- b. Existing roads will not need to be upgraded for this location.
- c. All existing roads used by these drilling operations will be maintained in the same or better condition as were existing prior to entry.
- d. See EXHIBIT "G" for access route.

2. PLANNED ACCESS ROADS: See EXHIBIT "G"

- a. Length: Approximately 1.5 miles of new access road will be required.
- b. Width: Maximum 30' overall right-of-way with an 18' running surface.
- c. Maximum grade: < 8%
- d. Culverts will be installed if necessary.
- e. Surface materials: Any surface materials which are required will either be native materials from the location and/or access site or materials purchased from a private source.
- f. All travel will be confined to location and access routes.
- g. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. This shall include ditching, draining, graveling, crowning, and

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

- h. If a Right-of-Way is necessary for the proposed access, please consider this the Application.

3. LOCATION OF EXISTING WELLS:

There are no existing wells in this area.

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

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

5. LOCATION AND TYPE OF WATER SUPPLY:

- a. Water to be used for drilling of this well will be hauled by truck over the roads described in this Surface Use Program. The water will be purchased from a private source owned by Gerald C. Bates of HCR Box 340, Garrison, UT 84728.
- b. No water well will be drilled on this location.

6. CONSTRUCTION ROAD/LOCATION MATERIALS:

- a. Any construction materials which are required will either be native materials from the location and/or access site or material purchased from a private source.
- b. Reasonable precautions will be taken to protect all lands.

7. METHODS FOR HANDLING WASTE MATERIALS AND DISPOSAL:

- a. Garbage will be stored in a dumpster and disposed of according to local and state regulations, at an approved facility. Disposal will not be allowed on location. No trash will be disposed of in the reserve pit.
- b. Fluids produced during the completion operation will be collected in test tanks. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and hauled to an approved disposal site. Burning will not be allowed.
- c. The reserve pit will be lined. In order to conserve water and protect the environment, a plastic nylon reinforced liner will be used. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. The liner will be torn and perforated before backfilling of the reserve pit.
- d. Saltwater or testing tanks will be located and/or diked so that any spilled fluids will flow into the reserve pit. Saltwater tanks will not be placed on topsoil stockpiles.
- e. Any produced water will be contained on site for a period not to exceed 90 days.
- f. Sewage will be disposed of according to county and state requirements. Sealed chemical portable toilets will be on location during these drilling operations. Waste and chemicals will not be disposed of on location.
- g. Cuttings will be deposited in the reserve pit.

8. ANCILLARY FACILITIES:

None anticipated.

9. LOCATION SITE LAYOUT:

- a. The proposed location site and elevation plat is shown on EXHIBIT "K".
- b. The drill pad layout, showing elevations, orientation, and access to the pad is shown on EXHIBIT "H".
- c. The drilling rig facilities layout is shown on EXHIBIT "J". No permanent living facilities are planned. There will be two or three trailers on location during drilling operations.
- d. If a flare pit is used, it will be located downwind of the prevailing wind directions a minimum of 100' from the wellhead.

- e. All pits will be fenced according to the following minimum standards:
- a. 39-inch net wire will be used with at least one strand of barbed wire on top of the net wire unless pipe or some type of reinforcement rod is attached to the top of the entire fence.
  - b. The net wire shall be no more than 2 inches above the ground. If barbed wire it shall be 3 inches above the net wire. Total height of fence will be at least 42 inches.
  - c. Corner posts will be cemented and/or braced in such a manner to keep the fence tight at all times. Standard steel, wood, or pipe posts will be used between the cornerbraces. Maximum distance between any two posts will be no greater than 16'.
  - d. All wire will be stretched before it is attached to the corner posts.

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

10. PLANS FOR RECLAMATION OF LOCATION SITE:

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

Producing location:

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

Dry hole/abandoned location:

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

See Mitigation Measures (EXHIBIT "L") for seed mixture to be used in reclamation of this location.

11. SURFACE OWNERSHIP:

Bureau of Land Management  
150 East 900 N  
Richfield, UT 84701

12. OTHER INFORMATION:

- a. An archeology survey has been ordered and a copy of the report will be submitted as soon as it is completed.
- b. If unexpected cultural resources are observed during construction or reclamation operations, Equitable Resources Energy Company's Balcron Oil division will suspend operations in the vicinity of the discovery and immediately report the finding to the BLM District Office.
- c. Operator will have on site a copy of the Surface Use Program and a copy of the supplemental conditions.
- d. Drilling operations will be conducted in accordance with the Bureau of Land Management conditions of approval when received.
- e. EXHIBIT "L" is a copy of the mitigation measures provided by the Bureau of Land Management.

13. OPERATOR'S REPRESENTATIVES:

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

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

John Zellitti, Production Engineer  
Home: (406) 652-5784

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 Equitable Resources Energy Company's Balcron Oil Division 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 14, 1994  
Date

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

/rs



Equitable Resources Energy Company  
Balcron Oil Division  
DRILLING PROGRAM

WELL NAME: Asp Federal #1                      PROSPECT/FIELD: Wildcat  
LOCATION: (1320' FSL X 1320' FWL) C/SW Sec.12 Twn.16S Rge.19W  
COUNTY: Millard                                      STATE: Utah

TOTAL DEPTH: 6000'

HOLE SIZE            INTERVAL

=====

12 1/4"	Surf to 600'
8 3/4"	600' to 6000'

CASING                                      INTERVAL                                      CASING

=====

STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface	0	600'	9 5/8"	36 #/Ft	J-55
Production	0	6000'	7"	20,23 #/Ft	K-55

( All casing will be ST&C, 8rd, New)

CEMENT PROGRAM

=====

Surface                      100 sacks Halliburton lite with 2% CaCl and 1/4#/Sk Flocele. (Yield = 1.97 Cu. Ft./Sx, Weight = 12.4 PPG) Tailed with 150 sacks Premium cement with 2% CaCl and 1/4#/Sk Flocele. ( Yield = 1.15 Cu. Ft./Sx, Weight = 15.8 PPG)  
(Note: Cement Volumes are 100% Excess.)

Production                      400 sacks of Premium Plus AG 250 with 35% SSA-1, 0.4% CFR-3, 0.5% Halad-24, and 0.2% HR-5. (Yield = 1.50 Cu. Ft./Sx, Weight = 15.8 PPG)  
(Note: Actual cement volumes will be calculated from caliper log. Cement top will be 1500')

PRELIMINARY  
DRILLING FLUID PROGRAM

=====

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Spud Mud(Fresh Water)	0	600'	8.5-8.8	0	0
Fresh Mud (LSND)	600'	6000'	8.5-9.0	8-10	10-12

COMMENTS

1.) One possible test will be run in the Paleozoic Carbonates.

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Asp Fed. #1
Project ID:	Location: Millard County, Utah

Design Parameters:

Mud weight ( 9.00 ppg) : 0.468 psi/ft  
 Shut in surface pressure : 2205 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	4,100	7"	20.00	K-55	ST&C	4,100	6.331		
2	1,900	7"	23.00	K-55	ST&C	6,000	6.250		
	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	1917	2168	1.131	2615	3740	1.43	125.70	254	2.02 J
2	2805	3270	1.166	2805	4360	1.55	43.70	309	7.07 J

Prepared by : McCoskery, Billings, MT  
 Date : 10-13-1994  
 Remarks :

Minimum segment length for the 6,000 foot well is 1,500 feet.  
 The mud gradient and bottom hole pressures (for burst) are 0.468 psi/ft and  
 2,805 psi, respectively.

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



# United States Department of the Interior



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

IN REPLY TO:

MTH 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.

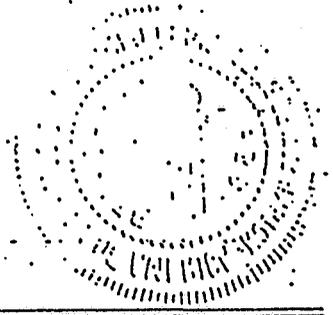
*Cynthia L. Embretson*  
Cynthia L. Embretson, Chief  
Fluids Adjudication Section

1 Enclosure  
1-Exhibit A

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

Form 3104-8  
(July 1984)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



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

Act of February 25, 1920 (30 U.S.C. Sec. 181)  
Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)  
Other Oil and Gas Leasing Authorities as Applicable

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

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

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

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

SCHEDULE A

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

NAMES OF STATES

ALL STATES

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

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

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

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



SURETY RIDER

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

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (BLM Bond No. MT0576)

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

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

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

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

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

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

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

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

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

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

SAFECO INSURANCE COMPANY OF AMERICA  
SURETY

By: *R. George Voinchet*  
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. VEHR; 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.

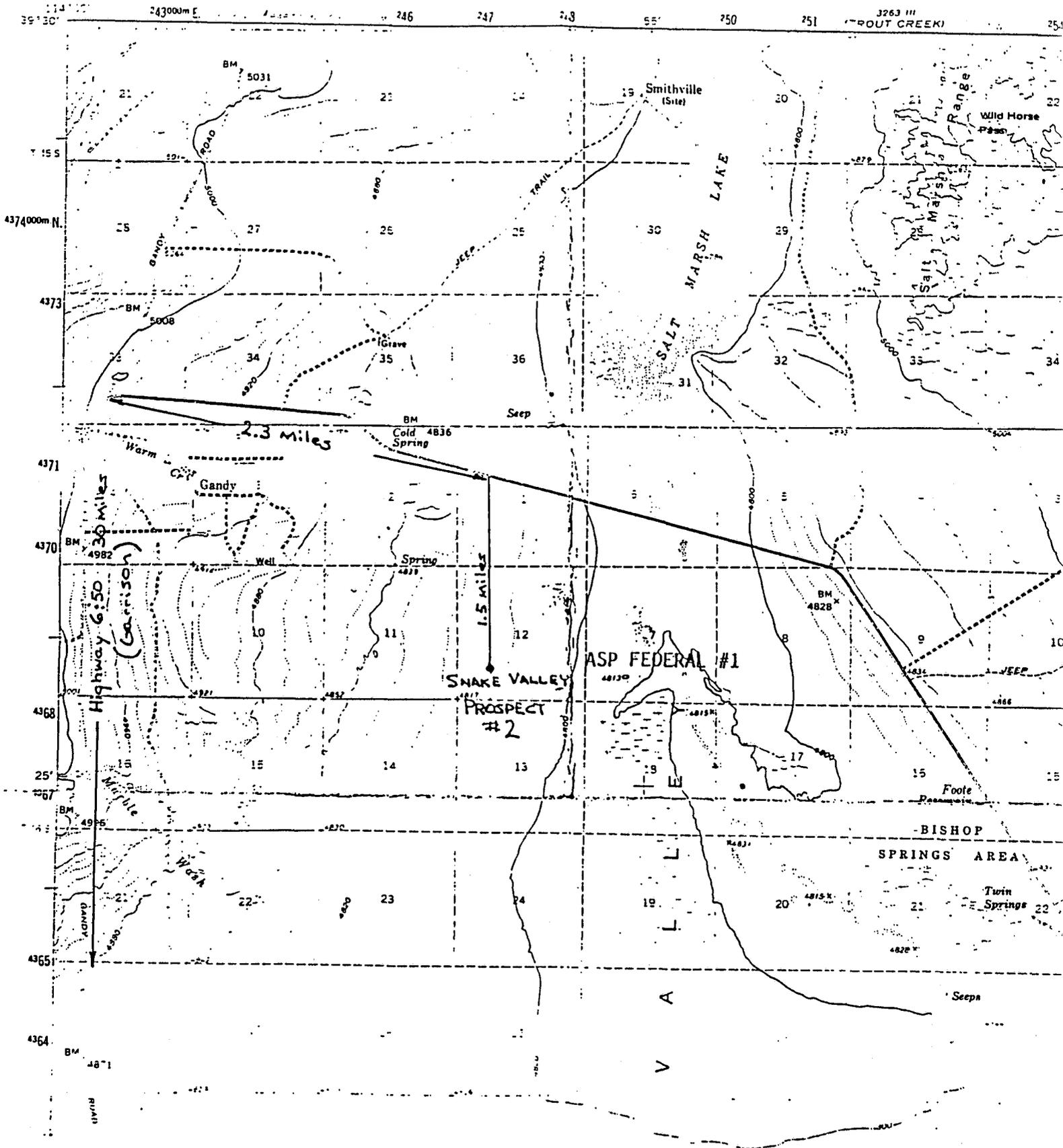
- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

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

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

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

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

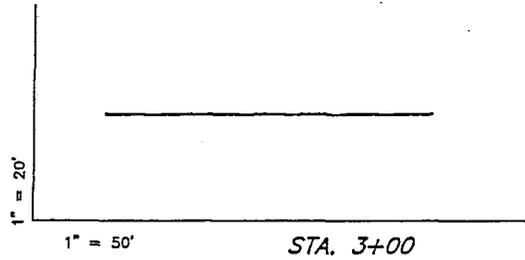
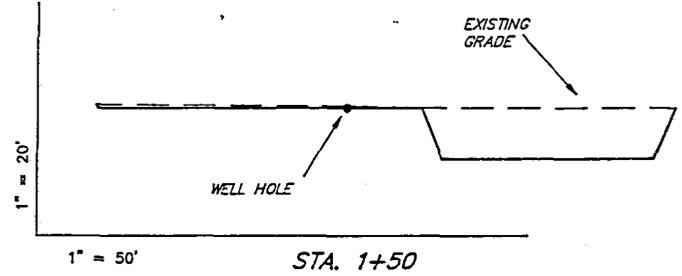
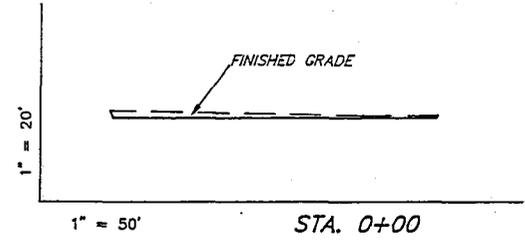
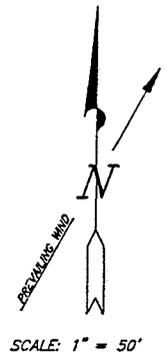
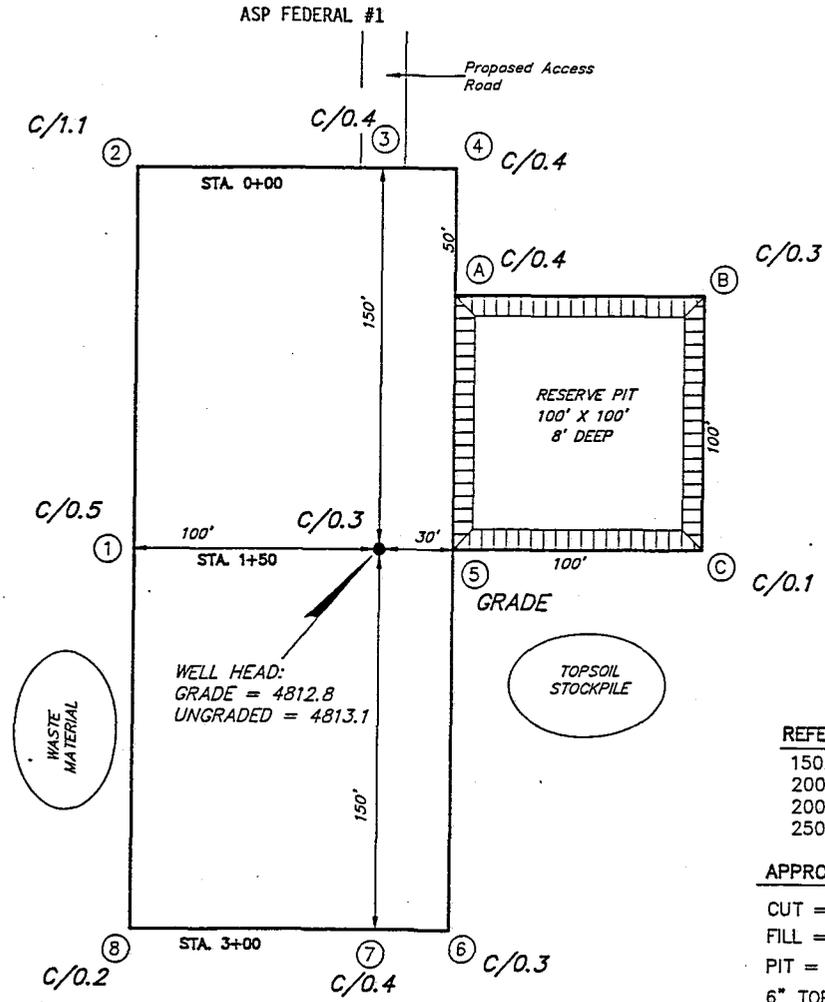


EQUITABLE RESOURCES ENERGY CO.  
SNAKE VALLEY PROSPECT #2  
MAP "A"

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

**EQUITABLE RESOURCES ENERGY CO.**

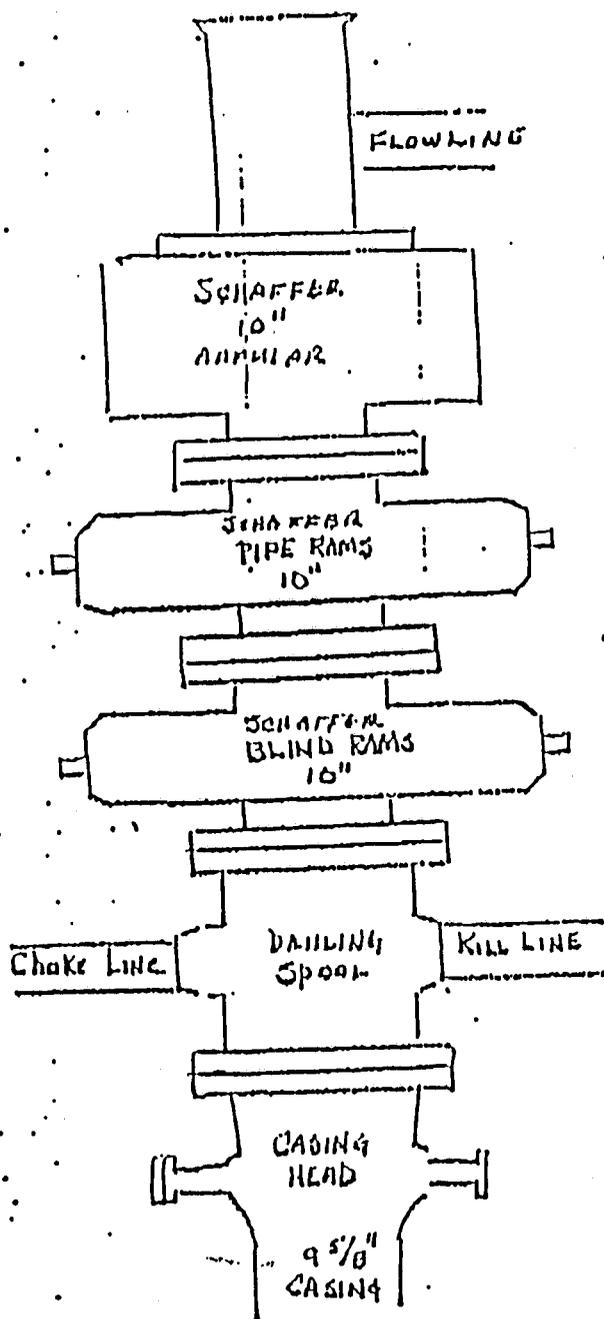
**BALCRON SNAKE VALLEY PROSPECT #2**



**REFERENCE POINTS**  
 150.0' WEST 4813.1'  
 200.0' WEST 4813.6'  
 200.0' SOUTH 4812.9'  
 250.0' SOUTH 4812.5'

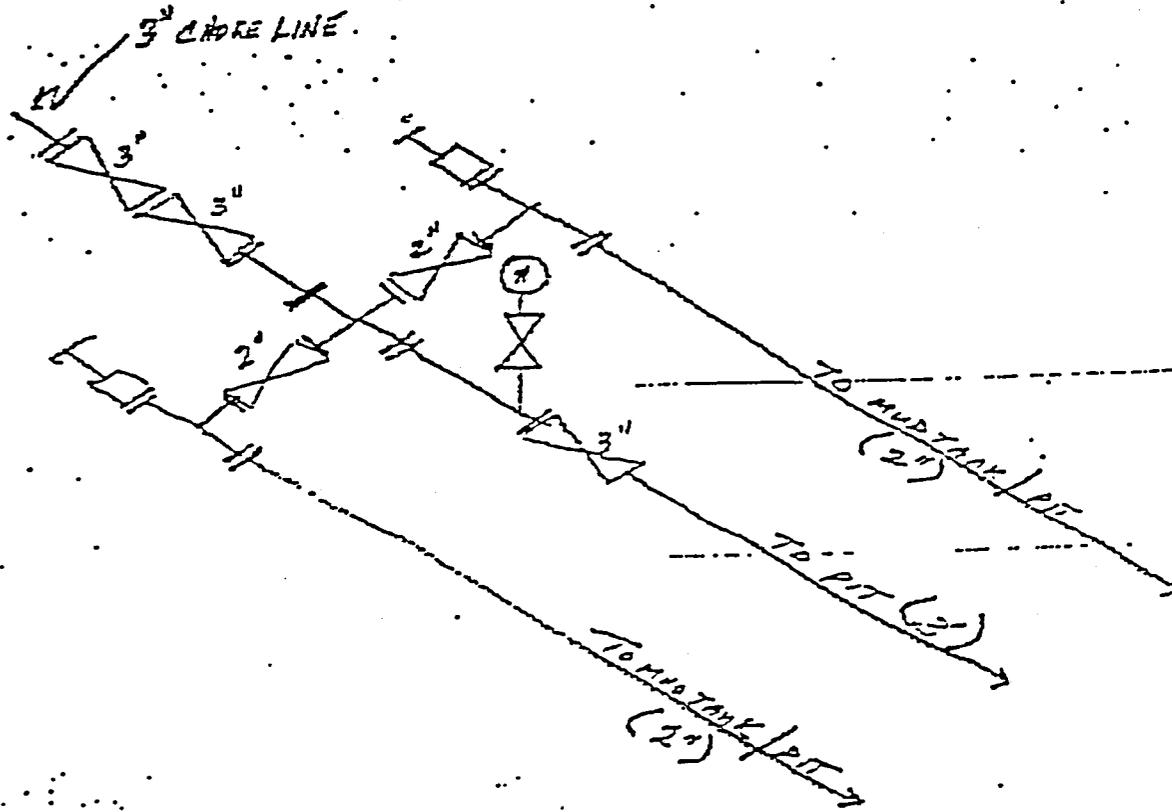
**APPROXIMATE YARDAGES**  
 CUT = 665 Cu. Yds.  
 FILL = 0 Cu. Yds.  
 PIT = 2,725 Cu. Yds.  
 6" TOPSOIL = 907 Cu. Yds.

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



Annular preventer optional.

**BLOWOUT PREVENTER  
EQUIPMENT**



CHOKER MANIFOLD EQUIPMENT  
SKID MOUNTED  
ENCLOSED IN STEEL BUILDING

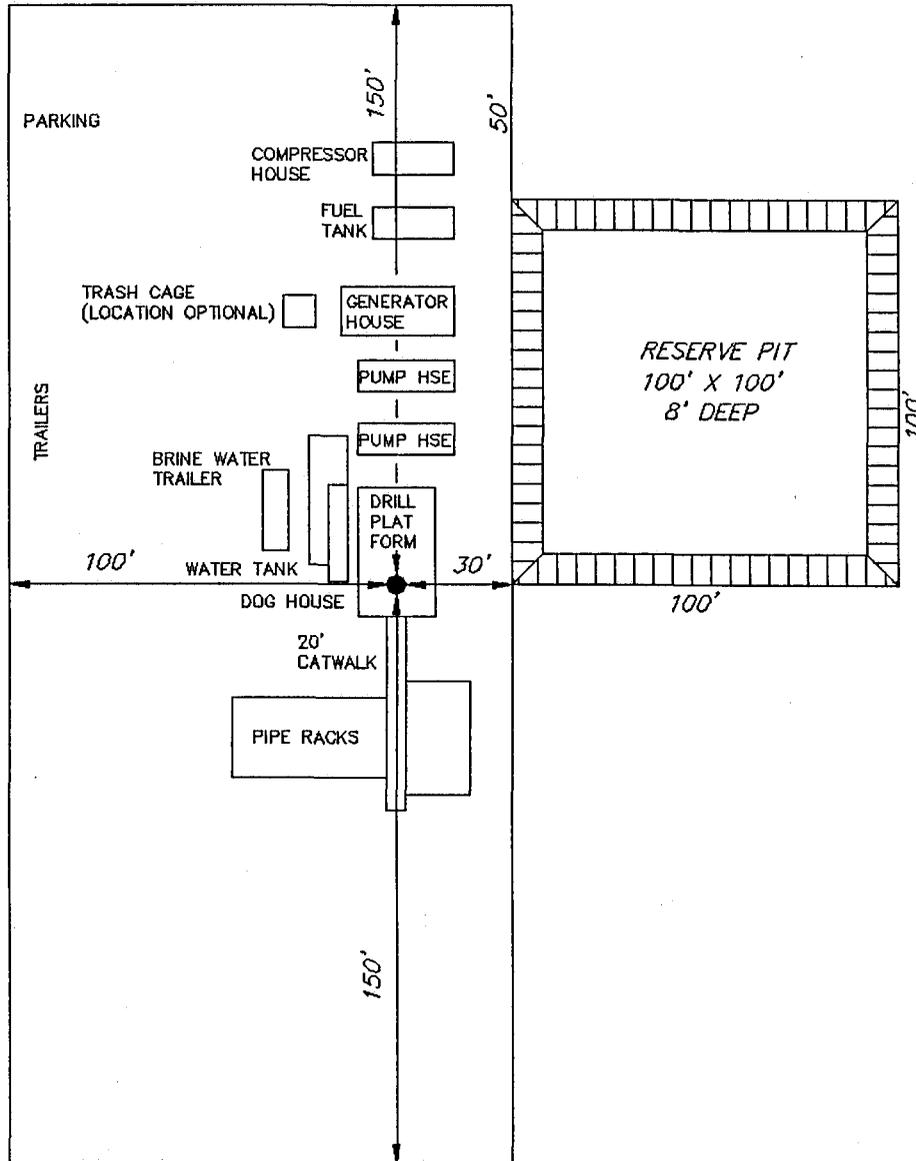
PLAT #2

EXHIBIT "J"

RIG LAYOUT

BALCRON SNAKE VALLEY PROSPECT #2

ASP FEDERAL #1



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

38 WEST 100 NORTH, VERNAL, UTAH 84078

MITIGATIONS  
BALCRON NOTICE OF STAKING ON-SITE  
WELLS BOA FEDERAL #1 AND ASP FEDERAL #1  
LEASES U-66447 AND U-69960, RESPECTIVELY

1. The top 6-8 inches of soil material, including all vegetation, shall be removed from the disturbed areas and stockpiled adjacent to the well pad and adjacent to the roadside, within the right-of-way if applicable. Topsoil stockpiles shall be indicated on well pad layouts and access maps. Topsoil shall be reserved for reclamation and not utilized for any other purpose.
2. Well pads and roads shall be designed with necessary gravel surfaces, crowning, ditches, or other means to allow for proper drainage and to prevent ponding of water adjacent to or on the pad, except for the reserve pit. Roads and pads shall be constructed to be above seasonally elevated water tables.
3. Any fill dikes in the reserve pit shall be compacted in lifts.
4. Three sides of the reserve pit shall be fenced in accordance with Bureau standards (attached) for a "cattle only" fence and H-style corner braces before drilling starts. The fence shall be maintained in good repair during operations.
5. All drilling fluids must be contained in the reserve pit. All appropriate measures must be taken to prevent leakage into the substratum or onto the surface. All appropriate measures must be taken to prevent overflow, and a minimum of 2 feet of freeboard must be maintained in the reserve pit. Design of the liner is dependent upon the site conditions and shall be specified in the surface use plan. A bentonite liner is preferred.
6. Immediately upon completion of drilling operations, the reserve pit shall be de-watered by removing and disposing drilling related fluids at an approved facility unless otherwise requested by the operator and approved by the Authorized Officer. Any accumulations of hydrocarbons in the reserve pit shall be removed and recovered for sale unless it is determined by the Authorized Officer to be waste oil. All waste oil shall be disposed of properly at approved facilities. The location and surrounding area, including the reserve pit, shall be cleared of all remaining debris, trash, junk, and materials not required for production.  

Once any oil or waste fluid has been removed, then the reserve pit fence shall be completed by constructing the fourth side in accordance with Bureau standards, and the pit shall be allowed to completely dry. The fence must remain in place and in good repair until the pit is dry and site restoration begins.
7. If a polyurethane liner is used, it shall be cut above the fill of the cuttings and disposed at an approved facility. Cuttings shall be buried in the pit. The pit shall be backfilled to slightly above grade to promote settling of the unconsolidated fill material.
8. The reserve pit and that portion of the location and access road not needed for production shall be reclaimed as described in the surface use plan. All stockpiled topsoil, in proportion to the area being reclaimed, shall be used in reclaiming unused areas.
9. Burning of waste shall not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site as necessary to keep the project area free and clean from trash, litter, discarded materials, and debris. The project area shall be maintained in a

sanitary condition at all times. "Waste" is defined as all discarded matter including, but not limited to, human waste, trash, garbage, refuse, pipe, oil, oil drums, grease, petroleum products, ashes, concrete, construction materials, equipment. Appropriate county sanitation permits shall be obtained for human waste and sanitation.

10. Site reclamation shall include ripping and re-contouring the disturbed sites and access routes to approximate natural contours, evenly redistributing stockpiled topsoil over the disturbed areas, scarifying disturbed areas, to a depth of not less than 1 inch prior to reseeding, and drilling seeds in the following seed mixture and rate:

Common Name	Scientific Name	Rate (lbs/acre)
Indian ricegrass	<u>Oryzopsis hymenoides</u>	2
Great Basin wildrye	<u>Elymus cinereus</u>	1
Winterfat	<u>Eurotia lanata</u>	2
Forage kochia	<u>Kochia prostrata</u>	1

The seed mixture below, which is in addition to the above seed mixture, will not pass through a drill but can be seeded with a dribbler in conjunction with drilling or it may be broadcast.

Fourwing Saltbush	<u>Atriplex canescens</u>	2
	TOTAL	8

The seed will be certified, pure live seed and seed tags must be available if requested by the Authorized Officer. No noxious weeds shall be in the seed mixture. The seed will be drilled to a depth of ½ to 1 inch. Seeding will be done in the fall between October 1 and November 30, before the ground freezes. Seeding will be repeated until a satisfactory stand is established as determined by the Authorized Officer.

11. Weed control shall be the responsibility of the operator. On BLM administered lands, use of pesticides and herbicides shall be approved by the Authorized Officer for any applications.
12. Access roads that shall be used in existing condition or constructed or reconstructed are to be addressed under the surface use plan as stated in Onshore Order #1. A right-of-way shall be granted as appropriate and necessary for off-lease portions of access roads.
13. Pre-existing access roads that are improved or upgraded shall be reclaimed to the pre-operation condition unless otherwise approved by the Authorized Officer.
14. The operator must acquire appropriate written agreements and/or permits as necessary to use existing county roads or authorized rights-of-way. Appropriate documentation for such agreements must be submitted prior to approval of the APD. (A list of current rights-of-way holders in the vicinity of the proposed wells and access was provided to Balcron during the on-site.)
15. Dust shall be controlled by applying water or other means as approved by the Authorized Officer and in accordance with federal, state and local emission standards for air quality.
16. The holder(s) of a right-of-way grant or the holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.

The holder(s) of a right-of-way shall indemnify and hold harmless the

United States against any liability for damage to life or property arising from the occupancy or use of the public lands under authority of this right-of-way grant. In any case, where strict liability is imposed and the damage or injury was caused by a third party, the rules of subrogation shall apply in accordance with the laws of the jurisdiction in which the damage or injury occurred.

A right-of-way will be issued subject to all valid existing rights including other authorized rights-of-way that may be located adjacent to or which may be affected by the construction of this subject right-of-way. Any existing facilities which may be damaged during operation, maintenance, or termination of the proposed operation shall be repaired or restored to the same condition as existed prior to the damage. Any costs for such damage or repair shall be the total responsibility of the holder(s) or the lease operator.

The holder(s) of rights-of-way or lease operator shall permit free and unrestricted public access to and upon rights-of-way for all lawful purposes except for those specific areas designated as restricted by the Authorized Officer to protect the public, wildlife, livestock, or facilities constructed within the right-of-way.

The holder(s) or lease operator shall conduct all activities associated with the operation, maintenance, and termination of rights-of-way on public land, within the authorized limits of the right-of-way, unless otherwise approved in writing by the Authorized Officer.

If at any time hereafter, the holder(s) or lease operator wishes to reconstruct, remodel, or relocate any portion of a right-of-way or change, modify, or add improvements or facilities thereon, the prior written approval of the Authorized Officer must be obtained. No such approval will be given unless the request is fully justified by the holder(s).

Use of existing roads shall be required during construction except as addressed in the surface use plan and approved by the Authorized Officer. During operations, all equipment and vehicles will be confined to the access roads and pad as specified in the APD.

17. Gas, diesel fuel, oil lubricants, and other petroleum products shall be located, handled and stored in a manner that prevents them from entering into and contaminating the soils. Contaminated soils and contents of the reserve pit shall be disposed in an approved facility, unless otherwise tested and approved by the Authorized Officer.

Compliance shall be made with all applicable Federal laws and regulations existing or hereafter enacted or promulgated for industrial wastes and toxic substances. Undesirable events shall be reported in accordance with NTL-2B and any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b.

In any event, the holder/operator shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under a right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

The holder of a right-of-way grant agrees to indemnify the United States

against any liability arising from the release of any hazardous substances or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901, et seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

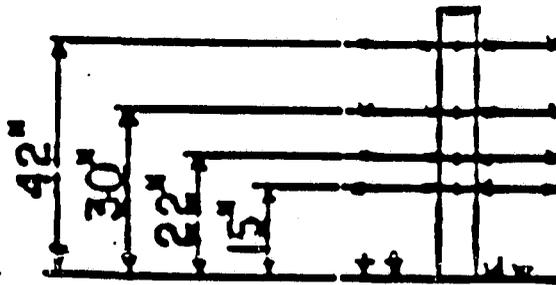
18. Water necessary for operations must be addressed as required under Onshore Order #1 and properly appropriated under State law.
19. The well site layout shall be designed in consideration of H<sub>2</sub>S safety and to orient the flare line away from powerlines and access routes.
20. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials and contact the AO. Within five (5) working days, the AO will inform the operator as to:
  - whether the materials appear to be eligible for the National Register of Historic Places,
  - the mitigation measures the operator will likely have to undertake before the site can be used, assuming in situ preservation is not necessary, and
  - a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials which may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigations have been completed the operator will then be allowed to resume construction.

21. Boundary adjustments in oil and gas leases owned by Equitable Resources Energy Company, Balcron Oil Division shall automatically require an amendment to any right-of-way to include that portion of a facility no longer contained within the lease. In the event of an automatic amendment to a right-of-way grant, the prior on-lease conditions of approval for any facility will not be affected even though they would now apply to facilities outside of the lease as a result of a boundary adjustment. Rental fees, if appropriate shall be recalculated, based on the conditions of the grant and the regulations in effect at the time of an automatic amendment.

BLM WIRE SPACING STANDARDS  
NOT TO SCALE

Cattle Only



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/17/94

API NO. ASSIGNED: 43-027-30033

WELL NAME: ASP FEDERAL 1  
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:  
CSW 12 - T16S - R19W  
SURFACE: 1320-FSL-~~1320~~-FWL  
BOTTOM: 1320-FSL-1320-FWL  
MILLARD COUNTY  
WILDACT FIELD (001)

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

LEASE TYPE: FED  
LEASE NUMBER: UTU-69960

PROPOSED PRODUCING FORMATION: PRCAM

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal [X] State[] Fee[]  
(Number 5547188)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number FROM GERALD BATES)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

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

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

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

STATE OF UTAH

<b>Operator: EQUITABLE RESOURCES</b>	<b>Well Name: ASP FEDERAL 1</b>
<b>Project ID: 43-027-30033</b>	<b>Location: SEC. 12 - T16S - R19W</b>

Design Parameters:

Mud weight ( 9.00 ppg) : 0.468 psi/ft  
 Shut in surface pressure : 2444 psi  
 Internal gradient (burst) : 0.060 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	4,100	7.000	20.00	K-55	LT&C	4,100	6.331
2	1,900	7.000	23.00	K-55	LT&C	6,000	6.250

	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	1917	2185	1.140	2691	3740	1.39	108.40	281	2.59 J
2	2805	3270	1.166	2805	4360	1.55	37.69	341	9.05 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 04-27-1995  
 Remarks :

Minimum segment length for the 6,000 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 104°F (Surface 74°F , BHT 134°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.468 psi/ft and 2,805 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 1987 pricing model. (Version 1.06)

EQUITABLE RESOURCES ASP FEDERAL #1  
SEC. 12 16 SOUTH, 19 WEST,  
MILLARD COUNTY, UTAH



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.  
UTU-69960

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

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

SUBMIT IN TRIPLICATE

8. Well Name and No.

Asp Federal #1

9. API Well No.

not yet issued

10. Field and Pool, or Exploratory Area  
Wildcat/Paleozoic

11. County or Parish, State

Millard County, UTAH

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

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

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

C/SW Section 12, T16S, R19W.  
1320' FSL, 1320' FWL

43-027-30033

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

TYPE OF SUBMISSION

TYPE OF ACTION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

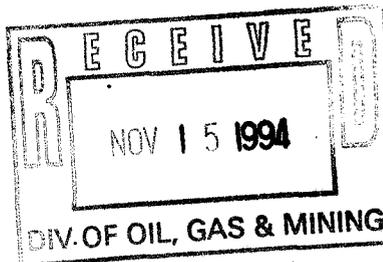
- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other cultural resource svy.

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

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

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

Attached is the Cultural Resource Evaluation of this proposed wellsite and associated access.



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

Signed Dobbie Schuman

Title Regulatory and Environmental Specialist

Date 11-14-94

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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

**CULTURAL RESOURCE EVALUATION  
OF PROPOSED ASP FEDERAL NO. 1 AND ASSOCIATED  
ACCESS ROUTE IN THE SNAKE VALLEY  
LOCALITY OF MILLARD COUNTY, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-94-54937  
AERC Project 1455 (BLCR-94-8B)

Utah State Project No.: UT-94-AF-599b

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  
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November 7, 1994

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of proposed Asp Federal Unit No. 1 and associated access route in the Snake Valley locality of Millard County, Utah. This evaluation involved a total of 28.2 acres, of which ten acres is associated with the proposed well pad, and an additional 18.2 acres associated with a 1.5 mile-long access corridor. These evaluations were conducted by F. R. Hauck of AERC on October 20, 1994.

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

No newly identified cultural resource activity loci or isolated artifacts were discovered or recorded during the examination.

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 20, 1994, AERC archaeologist F. R. Hauck conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved Balcron's proposed Asp Federal Unit No. 1 and an associated access route located in the Gandy/Snake Valley area of western Utah. A 10 acre well pad and buffer zone along with some 1.5 miles of access right of way (18.2 acres) were examined for a total of 28.2 acres. The entire project is situated on public lands administered by the Fillmore Office of the Bureau of Land Management (Richfield District, Warm Springs 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 development of this well and access route requires 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, Executive Order 11593, and various Utah State regulations.

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 Richfield District Office and to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-94-54937 which expires on January 31, 1995.

### Project Location

The project location is in the Snake Valley locality of Millard County, Utah. It is situated on the Gandy 7.5 minute topographic quad (see Map).

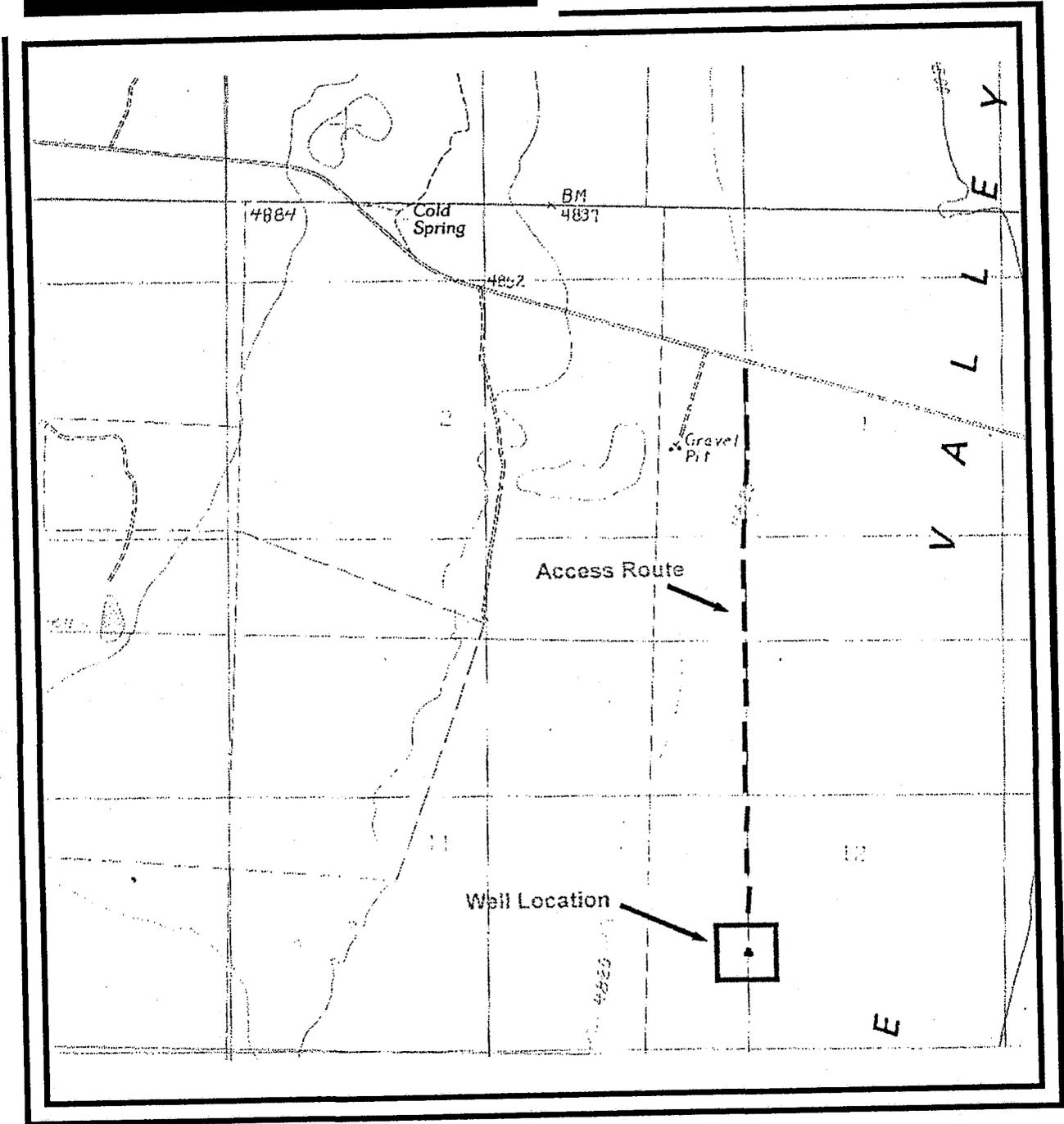
The proposed 100 foot-wide access corridor begins at the existing roadway ca. 2 miles east of Gandy. That location is in the SE quarter of the NW quarter of Section 1, Township 16 South, Range 19 West, Salt Lake Meridian. It extends to the south ca. 1.5 miles, ending at Balcron Asp Federal # 1 located in the SE quarter of the SW corner of Section 12 (see Map).

### Environmental Description

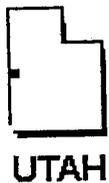
The project area is within the 4800 foot elevation zone above sea level. Open rangeland terrain is associated with the project area.

**MAP: CULTURAL RESOURCE SURVEY  
OF ASP FEDERAL UNIT NO. 1  
IN THE GANDY LOCALITY OF  
MILLARD COUNTY, UTAH**

**PROJECT: BLCR-94-8B  
SCALE: 1:24,000  
QUAD: Gandy, Utah  
DATE: 11-4-94**

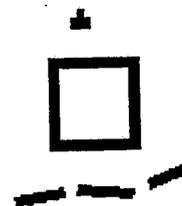


**LEGEND:**



**T. 16 South  
R. 19 West  
Meridian: Salt Lake B & M**

**Well Location  
Ten Acre Survey  
Plot  
Access Route**



Vegetation in the general project area reflects a typical "Artemesian" or Saltbush biotic province (Dice 1943) which is the dominant pattern found in many lowland areas throughout the eastern Great Basin. Limited rainfall and harsh climate promote the growth of xeric, salt tolerant species over most of the area, interspersed with scattered oases where shallow sub-surface water allows marshland vegetation to occur. The sparse vegetation in the general project area includes Rabbitbrush, (*Chrysothamnus spp.*), Sagebrush (*Artemisia spp.*), Greasewood (*Sarcobatus vermiculatus*), Mormon Tea (*Ephedra viridis*), Four-Wing Saltbush (*Atriplex canescens*), and a variety of alkali resistant grasses and sedges (cf. *Distichlis spicatus*, *Sporobolus airoides*, *Scirpus maritimus*, *Bromus tectorum* and *Carex rostrata*).

The geological associations within the project area consist of Quaternary fluvial and lake deposits which correlate with the post-Pleistocene recession of Lake Bonneville.

### 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 5, 1994. A similar search was conducted in the Fillmore BLM Office on October 12, 1994. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed development.

Few known cultural sites are situated in the Snake Valley locality. During the years, several of these prehistoric resources in the Gandy locality (cf., 42MD 66 and 42MD 68) have been identified and recorded by archaeologists conducting surface evaluations in this valley. Ms. Nancy Shearin, the Area Archaeologist has conducted surface evaluations within the vicinity of this present project (Shearin 1992a 1992b, 1993, 1994a, 1994b). Site 42MD 1129, a significant resource, was recently recorded by that archaeologist (Shearin 1994a). In addition, Kristopher Corambelas with Desert West Research, Inc. has recently evaluated seismic line corridors which pass through the Gandy locality (Corambelas 1994a and 1994b). Corambelas documented two ineligible sites (42MD 1167 and 1168) during his inventories in this general locality.

#### Prehistory and History of the Cultural Region

Currently available information indicates that the Great Basin Cultural Area 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 (cf., Jennings 1978, 1980). For a more definitive outline of the area's pre-history see "Prehistory of Southeastern Nevada" (Fowler et. al. 1973)

### Site Potential in the Project Development Zone

Previous archaeological evaluations in the general project area have resulted in the identification and recording of few cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). These sites include occupations sometimes containing ceramic scatters, and lithic scatters containing reduction materials.

### FIELD EVALUATIONS

#### Methodology

The intensive evaluation of the access route and ten acre parcel consisted of the archaeologist walking a 15 - 20 meter transect on each side of the staked right-of-way center line. Similar parallel transects were walked within the ten acre parcel . Thus, a 30 to 35 meter-wide or 100 foot-wide corridor (ca. 18.2 acres) was examined for the total ca. 7920 foot length of the proposed access route.

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

#### Site Significance Criteria

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

*The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. that are associated with the lives of persons significant in our past; or*
- c. that embody the distinctive characteristics of a type, period, or method of*

*construction ... ; or  
d. that have yielded, or may be likely to yield, information important in prehistory  
or history.*

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

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

### Results of the Inventory

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

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

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

No isolated artifacts were recorded or collected during the evaluation.

No paleontological loci were observed or recorded during the evaluation.

CONCLUSION AND RECOMMENDATIONS

No known significant cultural or paleontological resources will be adversely impacted during the development and operation of the Balcron Oil Company's Asp Federal Unit No. 1 as evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the proposed development of this well pad and access corridor based upon adherence to the following stipulations:

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



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

## REFERENCES

Corambelas, Kristopher

1994a "Class III Cultural and Paleontological Inventory for the Balcron 2-D Seismic Line in Millard County, Utah." Report prepared for Balcron Oil Division by Desert West Research, Inc. Salt Lake City.

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1992b "Bureau of Land Management Report on the Gandy Fence in Millard County, Utah (U92-BL-388b)." Warm Springs Resource Area Office, Fillmore.

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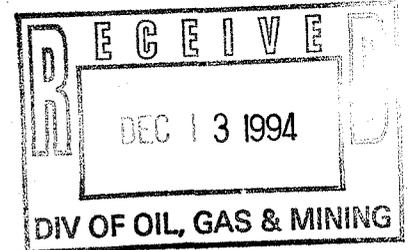
EQUITABLE RESOURCES  
ENERGY COMPANY

**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 12, 1994



Bureau of Land Management  
150 East 900 N  
Richfield, UT 84701

Gentlemen:

RE: Asp Federal #1  
C/SW Section 12-T16S-R19W  
Millard County, Utah

Enclosed is the H<sub>2</sub>S contingency plan which has been prepared for drilling the referenced well.

If you have any questions or need additional information, please give me a call at (406) 259-7860.

Sincerely,

*Bobbie Schuman*

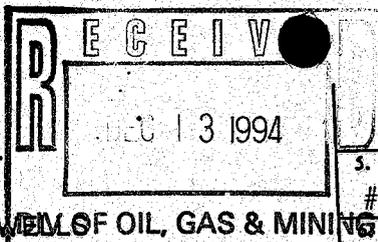
Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining

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 OF OIL, GAS & MINING

5. Lease Designation and Serial No.  
# TU-69960  
6. Name of Indian, Allottee or Tribe Name  
n/a

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

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

8. Well Name and No.

Asp Federal #1

9. API Well No.

43-027-30033

10. Field and Pool, or Exploratory Area  
Wildcat/Paleozoic

11. County or Parish, State

Millard County, UTAH

1. Type of Well  
 Oil Well  Gas Well  Other

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
C/SW Section 12, T16S, R19W 1320' FSL, 1320' FWL

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other H<sub>2</sub>S contingency plan
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

Attached is our H<sub>2</sub>S contingency plan which has been prepared for the drilling of the referenced well.

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

Signed Bobbie Schuman

Title Regulatory and Environmental Specialist

Date 12-12-94

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

**H2S CONTINGENCY PLAN  
for**

**Equitable Resources Energy Co  
Balcron Oil Division**

**Asp Federal # 1**

**Township 16S, Range 19W  
C/SW Section 12**

**Millard County, Utah**

**Balcron Oil Co  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, Montana 59104**

## PURPOSE OF PROGRAM

It is the policy of Balcron Oil CO to provide for the safety of its employees as well as contractor's employees at the job site, and to provide for the protection of the environment and the public within a two mile radius of this well site. The primary purpose of this contingency plan is to guide location personnel in the responses expected of them in the event that hydrogen sulfide (H<sub>2</sub>S) is released to the atmosphere during the drilling program.

Due to its capability of endangering life at very low concentrations and of potentially causing instantaneous failure of high strength metals, hydrogen sulfide is extremely hazardous to field operations. Drilling and production operations of hydrocarbons containing toxic gases, however, are routinely performed safely and without incident when the necessary precautions are taken and the outlined safety procedures are followed. It is imperative that sulfide resistant materials be used, that the appropriate support safety equipment be readily available, and that this equipment be properly maintained to provide an effective safety program during the drilling of this well.

DIRECTIONS TO LOCATION - Asp Federal # 1

From Highway 6 & 50, go east one mile and take the Gandy road north 30 miles. At the Warm Creek Ranch turn right and follow the dirt road for approximately 2.3 miles to right hand turn onto new gravel road. Follow this road 1.5 miles to location.

## CHARACTERISTICS OF HYDROGEN SULFIDE

Hydrogen sulfide is a highly toxic gas which, when inhaled in relatively low concentrations, can rapidly cause death. It is also highly flammable, being classified by the U.S. Department of Transportation as a flammable compressed gas. Certain concentrations in the air can burn upon ignition.

Although at lower concentrations it has a characteristic odor of rotten eggs, at higher concentrations it cannot be smelled at all. Therefore, odor cannot be depended upon as a means of detection of the gas.

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure according to the ACGIH and government standards is 10 PPM, which is .001 percent by volume.

Hydrogen sulfide is heavier than air (specific gravity = 1.19) and colorless. It forms flammable mixture with air between 4.3 and 46.0 percent by volume, and burns to produce Sulfur Dioxide (SO<sub>2</sub>). SO<sub>2</sub> is considered by NIOSH to be a hazard to humans. It is a colorless, very irritating gas with a pungent odor and taste. It does not inhibit the sense of smell, but causes irritation to nose and throat which may result in choking and gagging. These symptoms are sufficiently disagreeable that most persons will not tolerate them for more than short periods. Exposure to higher concentrations of SO<sub>2</sub> may lead to chemical pneumonia. The government standard for exposure to sulfur dioxide is 2 PPM for an 8-hour period. Whenever exposure to any concentration of these gases exceeding ACGIH or government standards is anticipated, the use of protective breathing equipment is required.

## RESPIRATORY PROTECTIVE EQUIPMENT

When the H<sub>2</sub>S concentration in the work environment exceeds a minimum of 10 PPM during an 8-hour period of continuous exposure, respiratory protective equipment must be worn. If the H<sub>2</sub>S concentration reaches damage levels shown in the table, respiratory equipment is necessary to prevent injury for whatever exposure time. At higher concentration levels, a self-contained air breathing apparatus and a life line should be used.

## TESTING FOR HYDROGEN SULFIDE

**NEVER** rely on the sense of smell to guess what the H<sub>2</sub>S concentration may be. A relatively small amount of H<sub>2</sub>S quickly impairs the sense of smell. Always use an approved H<sub>2</sub>S detector to test for H<sub>2</sub>S concentrations, and respiratory protection should always be used when testing for the presence of H<sub>2</sub>S.

## FIRST AID TREATMENT OF HYDROGEN SULFIDE VICTIMS

A person who is overcome by hydrogen sulfide must be removed to an area clear of gas immediately and artificial respiration started at once. Any delay in the start of artificial respiration appreciably reduces the chance of recovery. Four minutes of delay reduces the chance for recovery to 50-50. The recommended method of artificial respiration is mouth-to-mouth using current techniques and barriers when available. Additional rescue procedures and first aid will be further described during the individual safety training of all personnel on location.

## TREATMENT FOR HYDROGEN SULFIDE POISONING

### Inhalation

As hydrogen sulfide in the blood oxidizes rapidly, symptoms of acute poisoning pass off when inhalation of the gas ceases. It is important, therefore, to get the victim of poisoning to fresh air as quickly as possible. He should be kept at rest and chilling should be prevented. If respiration is slow, labored, or impaired, artificial respiration may become necessary. Most persons overcome by hydrogen sulfide may be revived if artificial respiration is applied before the heart action ceases. Victims of poisoning should be under the care of a physician as soon as possible. Irritation due to subacute poisoning may lead to serious complications such as pneumonia. Under those conditions, treatment by a physician necessarily would be automatic. The patient should be kept in fresh air and hygienic conditions should be watched carefully.

### Contact with Eyes

Eye contact with liquid and/or gas containing hydrogen sulfide will cause painful irritation (conjunctivitis). Keep patient in a darkened room, apply ice compresses to eyes, put ice on forehead, and send for a physician. Eye irritation caused by exposure to hydrogen sulfide requires treatment by a physician, preferably an eye specialist. The progress to recovery in these cases is usually good.

### Contact with Skin

Skin absorption is very low. Skin discoloration is possible after contact with liquids containing hydrogen sulfide. If such skin contact is suspected, the area should be thoroughly washed.

## TOXICITY OF HYDROGEN SULFIDE TO MAN

The following table describes the toxicity of H<sub>2</sub>S concentrations, expressed as parts of H<sub>2</sub>S per million parts of air (PPM).

- 10 PPM** Obvious and obnoxious odor; has the characteristic odor of rotten eggs. Eye irritation begins in the range of 10 to 30 PPM. Safe for 8 hours exposure. Everyone must wear respiratory protective equipment at concentrations above this level.
- 20 PPM** Former TLV or Safe Working Level
- 100 PPM** Impairs the sense of smell after 2 to 15 minutes exposure; alters respiration, causes pain in eyes, and drowsiness after 15 to 30 minutes, and throat irritation after 1 hour.
- 200 PPM** Quickly eliminates the sense of smell; may result in death after 8 to 48 hours of continuous exposure.
- 500 PPM** Causes loss of sense of reasoning and balance produces respiratory paralysis in 30 to 45 minutes exposure, and death in exposures of 1 to 4 hours. Victim requires prompt artificial resuscitation.
- 600 PPM** Causes death within 30 to 60 minutes, if not rescued and given immediate artificial resuscitation.
- 1000 PPM** Causes immediate loss of consciousness; permanent brain damage may result if not rescued promptly and resuscitated.

RESUSCITATION CHART

DID YOU KNOW ?

THERE IS NOT TIME TO WASTE  
WHEN BREATHING STOPS!

ARTIFICIAL RESUSCITATION MUST BE STARTED IMMEDIATELY!!!

After Breathing is Stopped for:

The Chances for Life are:

1 Minute	98 out of 100
2 Minutes	92 out of 100
3 Minutes	72 out of 100
4 Minutes	50 out of 100
5 Minutes	25 out of 100 *
6 Minutes	11 out of 100 *
7 Minutes	8 out of 100 *
8 Minutes	5 out of 100 *
9 Minutes	2 out of 100 *
10 Minutes	1 out of 100 *
11 Minutes	1 out of 1,000 *
12 Minutes	1 out of 10,000 *

\* Irreparable brain damage starts at about the fifth minute.

COOL-HEADED ACTION IN RESCUE IS CRITICAL !!!!

## OPERATIONS

- 1) All respiratory protective equipment and H<sub>2</sub>S monitoring equipment will be rigged up after setting the surface casing. All personnel will be fully trained in H<sub>2</sub>S safety procedures at this time.
- 2) A 4 channel continuous H<sub>2</sub>S monitoring system will be used to constantly monitor for hydrogen sulfide. The monitor console will be located in an area that is easily accessible and controlled, with 1 alarm light and 1 siren situated so that they can be observed from any point on the location. Additional alarms and buzzers may be installed around the location as needed to ensure that everyone is cognizant of any H<sub>2</sub>S alarms. The monitor heads will be placed at the following areas- 1) on the rig floor near the driller's console 2) in the substructure near the bell nipple, 3) at the shale shaker 4) in the mud mixing area. The sensor heads will be calibrated to activate a revolving red beacon should 10+ PPM H<sub>2</sub>S be detected by any single monitor head. Should 15+ PPM or higher H<sub>2</sub>S be detected, a loud siren will alarm. Personnel will be trained to take action to protect themselves, and for non-essential personnel to proceed to the upwind briefing area when alarms sound.
- 3) 2 Gastec/ Sensidyne pump-type hand-held gas detectors will be available on the drilling location. These detectors use colormetric tubes to detect the presence of H<sub>2</sub>S and SO<sub>2</sub> at specific areas.
- 4) 3 windsocks will be strategically placed around the location to ensure that wind direction is easily determined by all personnel. One wind indicator will be mounted on or near the rig floor to be readily visible to rig crews when tripping. Windsocks will be in illuminated areas to be visible 24 hours a day.
- 5) At least two (2) Safe Briefing Areas (SBA) will be located on the location. These areas will be situated to ensure that at least one area will always be upwind. Each Safe Briefing Area will include 3-300 cu. ft. bottles of compressed breathing air cascaded together, 1-filler hose, and 1-Scott 30 minute rescue air pack.
- 6) No smoking areas will be established and "No Smoking" signs posted.
- 7) Reliable 24-hour radio communication will be established from the drilling rig and emergency call lists and contacts will be near this communication system.
- 8) Chalk-boards and writing markers will be provided for emergency communication purposes.

9) A well condition warning sign will be posted on the location entrance road and a three color flag system will be used to indicate current location status and potential hazard. Additionally, standby barricades will be placed at the location access road to control road access if needed.

10) Ten (10) Scott Ska-Paks (5 minute egress bottle) will be provided for the operation and placed to assure that all personnel have an emergency air mask available.

- a) At least five (5) units on the rig floor
- b) One (1) unit in the derrick with airline
- c) One (1) unit at the shale shaker with airline
- d) The remainder to be strategically placed around the location to provide emergency breathing air for service personnel.

11) Ten (10) Scott 30 minute rescue packs will be located for key personnel involved in emergency operations, including:

- a) Two (2) on the rig floor or adjacent doghouse.
- b) One (1) at each safe briefing area.
- c) One (1) at rig toolpusher's quarters.
- d) One (1) in Balcron drilling representative's quarters.
- e) The remainder to be placed around the rig at stairway access areas.

12) Spectacle kits will be available for the Scott airpaks for personnel that require corrective lenses for adequate vision.

13) Battery powered voice mikes will be available for communication when wearing breathing equipment.

14) Safety meetings and training sessions will be held at frequent intervals. All persons required to work on location will be thoroughly familiar with the use, care and servicing of the safety equipment on location.

## H2S SAFETY EQUIPMENT ON LOCATION

1. 1 electronic continuous H2S detector with 4 sensors, 1 light alarm and 1 siren alarm.
2. Ten (10) Scott Ska-Paks (5 minute egress units)
3. Ten (10) Scott 30 minute rescue SCBAs (positive pressure, NIOSH and MSHA approved)
4. Two Gastec/ Sensidyne portable hand operated pump type detectors with low and high range H2S detector tubes and SO2 detection tubes.
5. Three wind socks with poles.
6. At least two high pressure compressed air refill hoses.
7. One H2S well condition sign w/ three flag system
8. One battery powered bullhorn and writing board.
9. Three 300 cu. ft. refill cylinders with each Briefing Area station
10. Four battery powered voice mikes

NOTE: Additional equipment will be added if conditions require.

## H2S SAFETY TRAINING

All personnel on the drilling rig, all support personnel, visitors will be trained in H2S safety procedures.

This training will include, but not be limited to:

- 1) The potential hazards and characteristics of H<sub>2</sub>S and SO<sub>2</sub>.
- 2) The effects of these gases on man and materials.
- 3) Operation and limitations of all types of respiratory protective equipment available on the location with thorough hands-on practice both for routine and emergency donning.
- 4) The different types of H<sub>2</sub>S and SO<sub>2</sub> detection and alarm equipment available on the drill site and how to interpret this equipment.
- 5) Prevailing winds and safe briefing areas.
- 6) Rescue and H<sub>2</sub>S first aid procedures.
- 7) Working with the buddy system.
- 8) Emergency procedures to follow including company preferred well shut in procedures.

## ACTION PLAN FOR H2S EMERGENCY

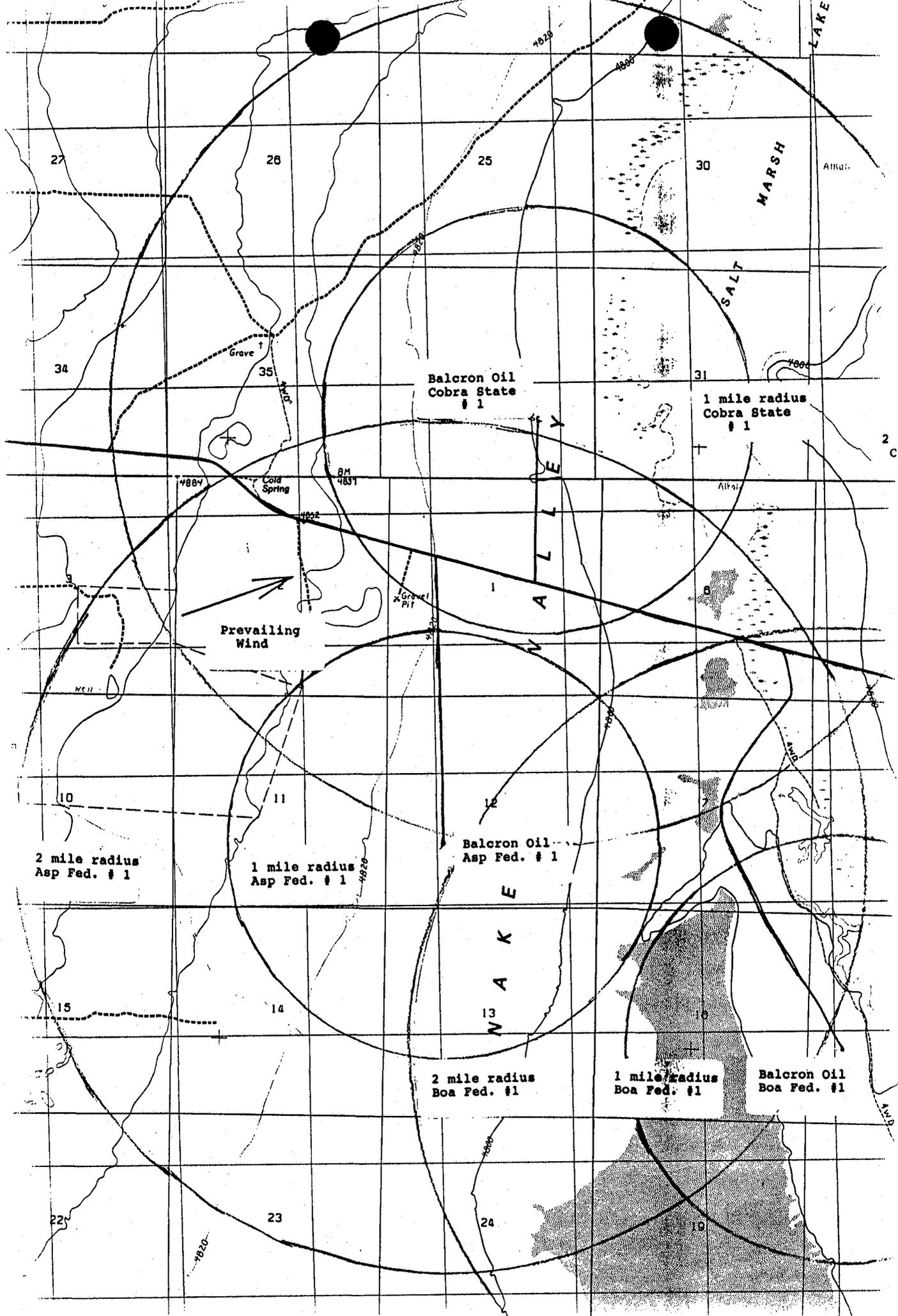
Should the H2S monitor alarms sound indicating the presence of hydrogen sulfide on location, the following actions will be taken:

- 1) All personnel on location must don protective breathing equipment and immediately follow the "buddy system" as prescribed during H2S training drills.
- 2) The Balcron drilling foreman will provide direction as to duties of drilling personnel depending on the current rig activity.
- 3) Monitor for hydrogen sulfide with portable gas detection equipment while following the directions of the Balcron drilling foreman.
4. Verify the drill site "head count" and search out and assist any missing or distressed personnel.
5. Ensure that all non-essential personnel are in a safe upwind briefing area and that no new visitors are allowed on location.

## Public in Roe

There are no permanent residents within a 2 mile area of the proposed well. Several ranch operations may be in this area as well as a federal agency. There are no identifying labels on the map for these groups as there is no defined area where they would be working.

1. Warm Springs Ranch.....(801) 693-3144
2. Gerald Bates Ranches.....(801) 693-3145
3. Brian Allred Ranches.....(801) 445-3528
4. U.S. Fish & Wildlife Service.... Doug Young - Mgr.....(801) 524-5001



Balcron Oil  
Cobra State  
# 1

1 mile radius  
Cobra State  
# 1

Prevailing  
Wind

Balcron Oil  
Asp Fed. # 1

1 mile radius  
Asp Fed. # 1

2 mile radius  
Asp Fed. # 1

2 mile radius  
Boa Fed. # 1

1 mile radius  
Boa Fed. # 1

Balcron Oil  
Boa Fed. # 1

EMERGENCY CALL LIST - OPERATIONS

A. Equitable Resources Energy Co  
Balcron Oil Division  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT. 59104

(406) 259-7860

**Operations Manager**

Dave McCoskery

Office.....(406) 259-7860

Home.....(406) 248-3864

Mobil .....(406) 698-6630

**Production Engineer**

John Zellitti

Office.....(406) 259-7860

Home.....(406) 652-5784

B. Drilling Contractor  
To Be Determined

C. Safety Contractor  
Inter-Mountain Safety Co, Inc.  
66 Walker Rd.  
Evanston, WY. 82930

**Manager**

Frank Kaunitz

Office.....(307) 789-3882

Home.....(307) 789-3882

**Safety Supervisor**

Ed Johannessen

Office.....(307) 789-3882

Home.....(307) 789-0341

## Emergency Call List

### Local Officials and Medical Contacts

Local Services are from Delta, Utah unless otherwise noted. There is a central emergency services for Millard County in Delta, Utah. (801)-864-2755. All emergency services are contacted from this number.

SHERIFF....Millard County, Utah .....(801)-864-2755  
AMBULANCE....Delta, UT.....(801) 864-2755  
HOSPITAL.....Delta Community Hospital .....(801) 864-5591  
DOCTOR.....On Call At Hospital Emergency Room  
HIGHWAY PATROL.....Utah.....Dial O  
FIRE.....Delta, UT.....(801) 864-2755

### Additional Notification Numbers

1. Bureau of Land Management.....(801) 896-8221  
Michael Jackson  
150 East 900 N  
Richfield, UT 84701
2. Bureau of Land Management.....Range office.....(801) 743-6811  
Rex Rowley Area Manager  
Filmore, Utah



EQUITABLE RESOURCES  
ENERGY COMPANY

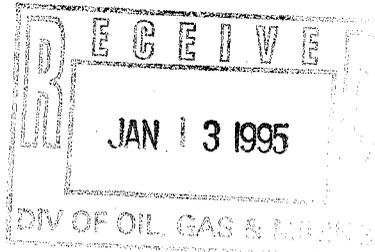
**BALCRON OIL DIVISION**

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

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

January 11, 1995

Mr. Michael Jackson  
Bureau of Land Management  
150 East 900 N  
Richfield, UT 84701



Dear Mr. Jackson:

RE: Asp Federal #1 *43-027-30033*  
C/SW Section 12-T16S-R19W  
Millard County, Utah

In accordance with our telephone conversation this week, it is my understanding that the BLM will not require an H<sub>2</sub>S contingency plan for drilling the referenced well. Therefore, please consider this a withdrawal of the H<sub>2</sub>S contingency plan which was sent to you for this well.

You had asked if we do put H<sub>2</sub>S monitoring equipment on our drilling wells and I found that we do not routinely do this.

If you have any questions or need additional information, please give me a call at (406) 259-7860.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining

**EQUITABLE RESOURCES**  
**ENERGY COMPANY****BALCRON OIL DIVISION**1601 Lewis Avenue  
Billings, MT 59102Office: (406) 259-7860  
FAX: (406) 245-1365   
FAX: (406) 245-1361 

March 21, 1995

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

Dear Mr. Hebertson:

RE: Asp Federal #1  
C/SW Section 12-T16S-R19W  
Millard County, Utah

The referenced well is located 1320' FSL, 1320' FWL due to geology for this prospect. As operator, we hereby request an Exception to Location for the referenced well for that reason.

If you have any questions or need additional information, please give me a call at (406) 259-7860.

Sincerely,

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

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

SUBMIT TRIPPLICATE\*  
(Other instructions on  
reverse side)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

U. LEASE DESIGNATION AND SERIAL NO.  
UTU-69960

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

7. UNIT AGREEMENT NAME  
n/a

8. FARM OR LEASE NAME  
Asp Federal

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat/Paleozoic

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 12, T16S, R19W

12. COUNTY OR PARISH  
Millard

13. STATE  
UTAH

22. APPROX. DATE WORK WILL START\*  
Upon AOD approval

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements,\*)  
At surface  
C/SW Section 12, T16S, R19W 1320' FSL, 1320' FWL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 2.3 miles from Warm Creek Ranch. *43-027-30033*

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

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

17. NO. OF ACRES IN LEASE

18. NO. OF ACRES ASSIGNMENT TO THIS WELL

19. PROPOSED DEPTH  
6,000'

20. ROTARY OR CASIN TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4813' GI

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	INIT	ACT	INFO
See attached	EXHIBIT "D" Drilling Program/Casing Design					

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

OCT 18 1994

SUP SERV			
PAO			
SHRA/WHHA			
MRA/WSRA			

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.

RECEIVED  
MAR 13 1995  
BOD OPERATIONS

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

SIGNED Robbie Schuman TITLE Regulatory and Environmental Specialist DATE 10-14-94  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY Jerry W. Doorman TITLE District Manager DATE 3/10/95  
CONDITIONS OF APPROVAL, IF ANY:  
See attached COA's



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

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

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

April 27, 1995

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

Re: Asp Federal #1 Well, 1320' FSL, 1320' FWL, C/SW, Sec. 12, T. 16 S., R. 19 W.,  
Millard County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-027-30033.

Sincerely,

R. J. Firth  
Associate Director

ldc  
Enclosures  
cc: Millard County Assessor  
Bureau of Land Management, Richfield District Office  
WAPD



Operator: Equitable Resources Energy Company

Well Name & Number: Asp Federal #1

API Number: 43-027-30033

Lease: Federal UTU-69960

Location: C/SW Sec. 12 T. 16 S., R. 19 W.

### Conditions of Approval

**1. General**

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

**2. Notification Requirements**

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

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

**3. Reporting Requirements**

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

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

Routing:

1	<del>LEP 7-5J</del>
2	<del>DP 58-FILE</del>
3	<del>VLD (GTY)</del>
4	<del>RJE</del>
5	<del>LEP</del>
6	<del>ELM</del>

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96 )

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
		<u>BILLINGS MT 59102-4126</u>
	phone <u>(406) 259-7860</u>	phone <u>(406) 259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>43-027-30033</u>	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). Rec'd 4-4-96 & 4-8-96
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ (4-10-96)
- Yec 6. Cardex file has been updated for each well listed above. (4-11-96)
- Yec 7. Well file labels have been updated for each well listed above. (4-11-96)
- Yec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)
- Yec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) # 5578314 (\$80,000) Seleo Ins. Co. (Bond Rider In Progress)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

FILMING

- VB 1. All attachments to this form have been microfilmed. Date: April 30 1997.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

9/6/10 BLM/BIA "Formal approval not necessary"



**EQUITABLE RESOURCES**  
ENERGY COMPANY

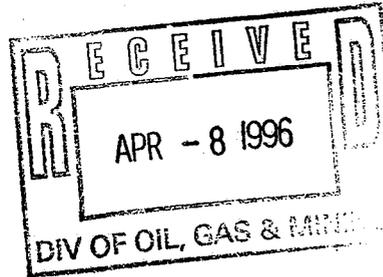
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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

March 22, 1996

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



Gentlemen:

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

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

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

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

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:  
See attached listing

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

7. Unit Agreement Name:  
See attached listing

8. Well Name and Number:  
See attached listing

9. API Well Number:  
See attached listing

10. Field and Pool, or Wildcat:  
See attached listing

1. Type of Well: OIL  GAS  OTHER: See attached listing

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

3. Address and Telephone Number:  
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well  
Footages: See attached listing  
OO, Sec., T., R., M.:

County: See attached list  
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

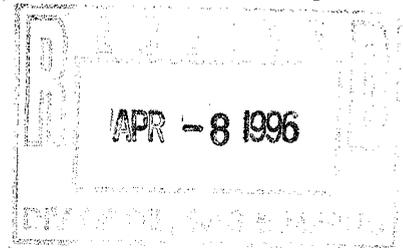
Date of work completion \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

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

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



13. Name & Signature: Bobbie Schuman  
Bobbie Schuman

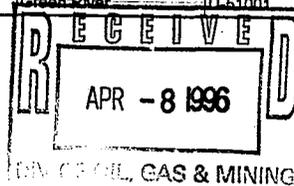
Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

Record#	OPERATOR	well_name	API_NUMBER	SECTION	TOWNSHIP	RANGE	DATEAPPRVD
1937	EQUITABLE RESOURCES	BALCRON MONUMENT FEDERAL 14-4	43-013-31430	04	09S	16E	12/20/93
2282	EQUITABLE RESOURCES	BALCRON MONUMENT FED 12-14J	43-013-31488	14	09S	16E	03/27/95
2283	EQUITABLE RESOURCES	BALCRON MONUMENT FED 22-14J	43-013-31489	14	09S	16E	03/07/95
2284	EQUITABLE RESOURCES	BALCRON MONUMENT FED 32-14J	43-013-31490	14	09S	16E	03/07/95
2285	EQUITABLE RESOURCES	BALCRON MONUMENT FED 42-14J	43-013-31491	14	09S	16E	04/20/95
2375	EQUITABLE RESOURCES	BALCRON MONUMENT FEDERAL 14-26	43-013-31512	26	08S	16E	04/20/95
2472	EQUITABLE RESOURCES	BALCRON MON FED 11-10-9-17Y	43-013-31534	10	09S	17E	/ /
2609	EQUITABLE RESOURCES	MONUMENT STATE 23-16-9-17B	43-013-31578	16	09S	17E	01/03/96
2613	EQUITABLE RESOURCES	MONUMENT FEDERAL 23-17-9-17B	43-013-31582	17	09S	17E	02/05/96
2614	EQUITABLE RESOURCES	MONUMENT FEDERAL 13-22-8-17Y	43-013-31583	22	08S	17E	02/22/96
2618	EQUITABLE RESOURCES	MONUMENT FEDERAL 32-22-8-17	43-013-31586	22	08S	17E	02/20/96
2619	EQUITABLE RESOURCES	MONUMENT FEDERAL 31-22-8-17	43-013-31587	22	08S	17E	02/20/96
2620	EQUITABLE RESOURCES	MONUMENT FEDERAL 33-22-8-17	43-013-31588	22	08S	17E	03/25/96
2621	EQUITABLE RESOURCES	MONUMENT FEDERAL 33-6-9-16Y	43-013-31589	06	09S	16E	04/15/96
2622	EQUITABLE RESOURCES	MONUMENT FEDERAL 31-10-9-17Y	43-013-31591	10	09S	17E	/ /
2623	EQUITABLE RESOURCES	MONUMENT FEDERAL 32-10-9-17Y	43-013-31592	10	09S	17E	02/22/96
*2201	EQUITABLE RESOURCES	ASP FEDERAL 1	43-027-30033	12	16S	19W	04/27/95
2539	EQUITABLE RESOURCES	COBRA FEDERAL 42-35	43-027-30037	35	15S	19W	/ /
1942	EQUITABLE RESOURCES	BALCRON MONUMENT FEDERAL 41-26	43-047-32456	26	08S	17E	12/21/93
2099	EQUITABLE RESOURCES	BALCRON MONUMENT FEDERAL 42-26	43-047-32531	26	08S	17E	06/01/95
2264	EQUITABLE RESOURCES	BALCRON MONUMENT STATE 32-2	43-047-32609	02	09S	17E	12/29/94
2267	EQUITABLE RESOURCES	BALCRON MONUMENT STATE 34-2	43-047-32611	02	09S	17E	12/29/94
2376	EQUITABLE RESOURCES	BALCRON MONUMENT FEDERAL 43-26	43-047-32668	26	08S	17E	05/08/95
2481	EQUITABLE RESOURCES	BALCRON MON FEDERAL 23-24-8-17	43-047-32710	24	08S	17E	02/13/96
2625	EQUITABLE RESOURCES	MONUMENT FEDERAL 32-20-9-18Y	43-047-32725	20	09S	18E	02/06/96
2635	EQUITABLE RESOURCES	MONUMENT FED 41-35-9-18Y	43-047-32727	35	09S	18E	04/15/96
2636	EQUITABLE RESOURCES	MONUMENT FED 44-31-8-18Y	43-047-32728	31	08S	18E	/ /
2637	EQUITABLE RESOURCES	MONUMENT FEDERAL 43-19-9-18Y	43-047-32730	19	09S	18E	02/05/96

*OH/Pending Status*

03/27/96														
Revised 3/20/96														
EQUITABLE REOURCES ENERGY COMPANY, WESTERN REGION-OPERATED WELL LIST														
(CURRENT)														
ST = State														
FED. OR STATE														
WELL NAME	FIELD	QTR/QTR	SEC.	TWP.	RANGE	COUNTY	ST.	STATUS	ZONE	LEASE NO.	API NUMBER	FOOTAGES	BLM	UNIT OR WELL
													OFFI	FILE NO.
A. Anderson State #1-16	Monument Butte	SW SW	16	9S	17E	Duchesne	UT	Oil (SI)	Green River	ML-3453	43-013-15582	660' FSL, 560' FWL		Beluga
Allen Federal #1-6	Monument Butte	SE SE	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-15779	660' FSL, 660' FEL	Vernal	Jonah
Allen Federal #12-5	Monument Butte	SW NW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-30611	1980' FNL, 660' FWL	Vernal	Jonah
Allen Federal #12-6	Monument Butte	SW NW	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30582	1980' FNL, 604' FWL	Vernal	Jonah
Allen Federal #13-6	Monument Butte	NW SW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-30918	2070' FSL, 578' FWL	Vernal	Jonah
Allen Federal #21-5	Monument Butte	NE NW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-30612	660' FNL, 1980' FWL	Vernal	Jonah
Allen Federal #21-6	Monument Butte	NE NW	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30584	660' FNL, 1980' FWL	Vernal	Jonah
Allen Federal #22-6	Monument Butte	SE NW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-30919	2141' FNL, 1902' FWL	Vernal	Jonah
Allen Federal #23-6	Monument Butte	NE SW	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30558	1980' FSL, 1980' FWL	Vernal	Jonah
Allen Federal #31-6	Monument Butte	NW NE	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31195	660' FNL, 1980' FEL	Vernal	Jonah
Allen Federal #32-6	Monument Butte	SW NE	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30559	1980' FNL, 1980' FEL	Vernal	Jonah
Allen Federal #34-6	Monument Butte	SW SE	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30586	662' FSL, 2075' FEL	Vernal	Jonah
Allen Federal #41-6	Monument Butte	NE NE	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30581	661' FNL, 655' FEL	Vernal	Jonah
Allen Federal #43-6	Monument Butte	NE SE	6	9S	17E	Duchesne	UT	Oil	Green River	U-020252-A	43-013-30583	1980' FSL, 660' FEL	Vernal	Jonah
Alien Federal A #1	Monument Butte	NW NW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-15780	660' FNL, 660' FWL	Vernal	Jonah
Amerada Guinand #1	Coyote Basin	SW NW	7	8S	25E	Uintah	UT	WIW	Green River	U-016271-V	43-047-20245	1920' FNL, 550' FWL	Vernal	Coyote Basin
Asp Federal #1	Wildcat	C/SW	12	16S	19W	Millard	UT	PND	Paleozoic	UTU-69960	43-047-3023	1320' FSL, 1320' FWL		Richfield
Balcron Allen Fed. #31-6G	Monument Butte	NW NE	6	9S	17E	Duchesne	UT	Gas	Green River	U-020252-A	43-013-31442	708' FNL, 2076' FEL	Vernal	
Balcron Coyote Fed. #12-5	Coyote Basin	SW NW	5	8S	25E	Uintah	UT	OSI	Green River	U-063597-A	43-047-32253	1980' FNL, 660' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #13-5	Coyote Basin	NW SW	5	8S	25E	Uintah	UT	Oil	Green River	U-063597-A	43-047-32261	1605' FNL, 586' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #13-7	Coyote Basin	NW SW	7	8S	25E	Uintah	UT	Oil	Green River	U-41377	43-047-32255	1980' FSL, 660' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #21-5	Coyote Basin	NE NW	5	8S	25E	Uintah	UT	Oil	Green River	U-063597-A	43-047-32260	660' FNL, 1980' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #22-7	Coyote Basin	SE NW	7	8S	25E	Uintah	UT	Oil	Green River	U-41377	43-047-32256	1749' FNL, 1601' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #23-5	Coyote Basin	NE SW	5	8S	25E	Uintah	UT	PND	Green River	U-065597A	43-047-32424	2110' FSL, 1980' FWL	Vernal	Coyote Basin
Balcron Coyote Fed. #31-7	Coyote Basin	NW NE	7	8S	25E	Uintah	UT	Oil	Green River	U-020309-D	43-047-32254	561' FNL, 1977' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #33-5	Coyote Basin	NW SE	5	8S	25E	Uintah	UT	Oil	Green River	U-063597-A	43-047-32257	1892' FSL, 2326' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #33-7	Coyote Basin	NW SE	7	8S	25E	Uintah	UT	PND	Green River	U-51001	43-047-32259	751' FSL, 1922' FEL	Vernal	



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**RECEIVED**  
MAY 13 1996  
DIV. OF OIL, GAS & MINING

Lease Designation and Serial Number:  
Fed. #UTU-69950  
If Indian, Allottee or Tribe Name:  
n/a  
Unit Agreement Name:  
n/a

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL  GAS  OTHER:  
2. Name of Operator:  
Equitable Resources Energy Company  
3. Address and Telephone Number:  
1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860  
4. Location of Well  
Footage: 1320' FSL, 1320' FWL  
OO, Sec., T., R., M.: C/SW Section 12, T16S, R19W

5. Well Name and Number:  
Asp Federal #1  
6. API Well Number:  
43-027-30033  
7. Field and Pool, or Wildcat:  
Wildcat/Paleozoic  
County: Millard  
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**NOTICE OF INTENT**  
(Submit in Duplicate)

Abandon  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Multiple Completion  
 Other \_\_\_\_\_

New Construction  
 Pull or Alter Casing  
 Recomplete  
 Reperforate  
 Vent or Flare  
 Water Shut-Off

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

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

Abandon  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Other Renew APD

New Construction  
 Pull or Alter Casing  
 Reperforate  
 Vent or Flare  
 Water Shut-Off

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

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

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

An APD extension was just granted by the Bureau of Land Management. That APD expires 3/10/97. We hereby request a one-year extension of the State APD.

ORIGINAL: Utah Division of Oil, Gas and Mining

*Extended to 4/27/97 DTS*

13. Name & Signature: Robbie Schuman Title: Regulatory and Environmental Specialist Date: 5/9/96

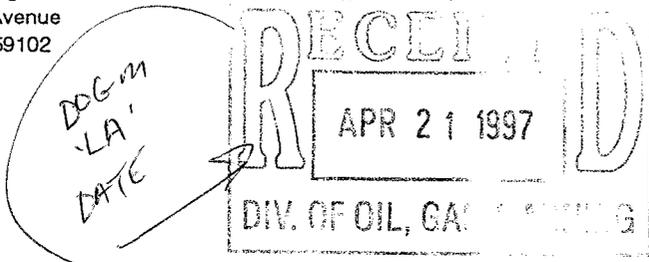
(This space for State use only)

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



Equitable Resources Energy Company  
Western Region  
1601 Lewis Avenue  
Billings, MT 59102

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



April 9, 1997

CONFIDENTIAL

-- VIA FAX and MAIL --

Mr. Michael Jackson  
bureau of Land Management  
150 East 900 North  
Richfield, UT 84701

Dear Michael:

In reference to our telephone conversation today, please be advised that it is our intent to let the Applications for Permit to Drill the following wells lapse without renewal:

Cobra Federal #42-35  
Asp Federal #1 *43-027-30033*

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

Sincerely,

Bobbie Schuman  
Regulatory Specialist

/hs

cc: State of Utah; Division of Oil, Gas and Mining