

UTAH OIL AND GAS CONSERVATION COMMISSION

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

890327 OPA pu BOM

DATE FILED 2-9-87

LAND FEE & PATENTED \_\_\_\_\_ STATE LEASE NO \_\_\_\_\_ PUBLIC LEASE NO U-43156 INDIAN \_\_\_\_\_

DRILLING APPROVED 2-11-88

SPUDED IN \_\_\_\_\_

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

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

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

GOR \_\_\_\_\_

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

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

WELL ELEVATION 5259' GR

DATE ABANDONED OPA 3-07-89

FIELD: NATURAL BUTTES

UNIT \_\_\_\_\_

COUNTY: UINTAH

WELL NO EVANS FEDERAL 3-25 API #43-047-31836

LOCATION 600' FNL FT. FROM (N) (S) LINE. 2155' FWL FT. FROM (E) (W) LINE. NE NW 1/4 - 1/4 SEC. 25

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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10S 19E 25 APACHE CORPORATION

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 APACHE CORPORATION

3. ADDRESS OF OPERATOR  
 1700 Lincoln, Suite 1900, Denver, CO 80203-4519

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface 600' FNL & 2155' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 51 miles from Vernal, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 600

16. NO. OF ACRES IN LEASE  
 600

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 8400'

19. PROPOSED DEPTH  
 8400'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DP, BT, GR, etc.)  
 5259' GR

22. APPROX. DATE WORK WILL START\*  
 2/15/88

5. LEASE DESIGNATION AND SERIAL NO.  
 U-43156

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Evans Federal

9. WELL NO.  
 3-25

10. FIELD AND POOL, OR WILDCAT  
 Natural Buttes

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 25-T10S-R19E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	230'	125 SXS
7-7/8"	5-1/2"	17#	8400'	1710 SXS

The subject well will be drilled to test the productive potential of the Wasatch and Mesa Verde zones encountered. Significant oil/gas shows will be tested. The well will be cased and cemented as described above. If the well is plugged and abandoned, the operation will be completed in accordance with instructions from the BLM. Apache requests that this APD be considered for a right-of-way permit. Attachments are:

- Conditions of Approval for Notice to Drill
- Multi-Point Surface Use Plan which include:
  - 1) Plat
  - 2) Access Roads
  - 3) Drillsite Plan
  - 4) Drillsite Cross-Section
  - 5) Rig Layout

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 David M. Talbott TITLE Operations Engineer DATE 1/18/88

(This space for Federal or State office use)

PERMIT NO. 43-047-31836

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

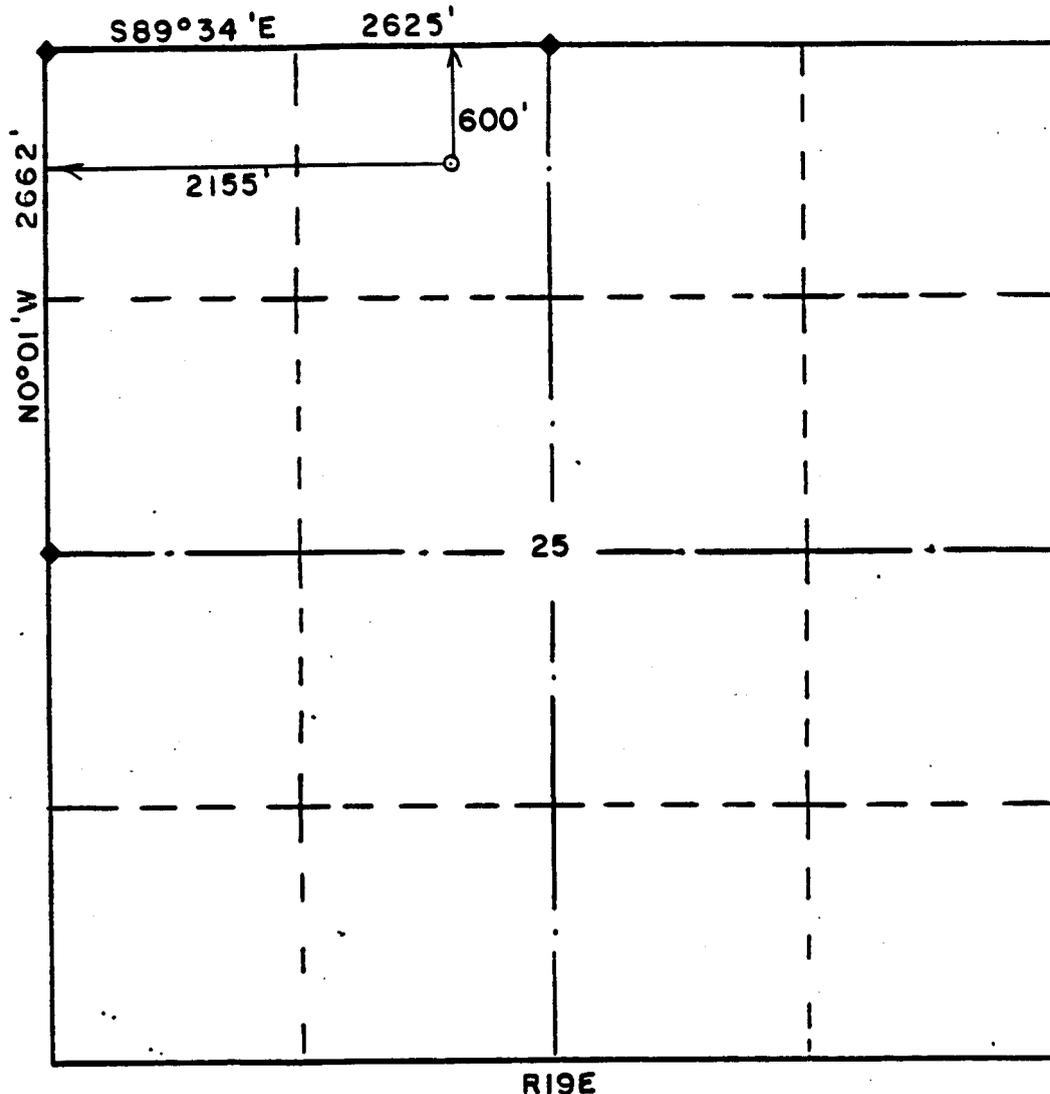
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

APPROVAL DATE 2-4-88  
 BY John R. Bay  
 WELL SPACING R615-3-2

\*See Instructions On Reverse Side

EXHIBIT C

WELL LOCATION AND ACREAGE DEDICATION PLAT

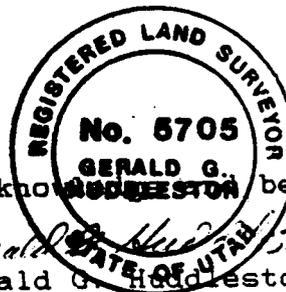


1"=1000'

T.10 S.

R19E

WELL LOCATION DESCRIPTION:  
 APACHE CORPORATION, Evans Federal #3-25  
 600' FNL & 2155' FWL, 5259' grd. elevation  
 Section 25, T.10 S., R.19 E., SLM  
 Uintah County, Utah  
 Reference; S 77 40'W, 254', 5294'grd.



The above plat is true and correct to my knowledge and belief.

4 November 1987

Gerald G. Haddleston, LS

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL  
DRILLING PROGRAM

COMPANY: APACHE CORPORATION

WELL NO: EVANS FEDERAL #3-25

LOCATION: NE NW Section 25-T10S-R19E  
Uintah County, Utah

LEASE NO: U-43156

ON-SITE INSPECTION DATE: Conducted November 4, 1987

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

	SURFACE
Uintah	1085'
Green River	4020'
Wasatch Tongue	4535'
Wasatch	5285'
Wasatch Gas Sand	7475'
Mesa Verde	8400'
TD	

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

	<u>Formation</u>	<u>Zone</u>
Expected oil zones:	Green River	1085'
Expected gas zones:	Wasatch Gas Sand	5285'
	Mesa Verde	7475'
Expected water zones:	None	
Expected mineral zones:	No coal or uranium is expected in this area.	

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

### 3. Pressure Control Equipment:

A double gate hydraulic BOP, Shaffer type LWS, 10", 3000# WP (or equivalent) with pipe rams and blind rams will be installed on the 9-5/8" casing head. Stack will be tested to 1000 psi prior to drilling under surface; and operational checks will be made daily or on trips. Please see attached Exhibit I.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

### 4. Casing Program and Auxiliary Equipment:

Surface Casing: 230' of 9-5/8", 36#, K-55, ST&C, used inspected casing set from 230' to surface. Cement with 125 sxs Class A with 2% CaCl<sub>2</sub>, volume based on hole size with 100% excess. Circ. cmt to surface. 9-5/8" guide shoe and insert float valve fillup attachment used for cementing.

Production Casing: 8400' of 5-1/2", 17#, N-80, LT&C, new casing set from 8400' to surface.

Pre-Flushes - 1) 50 bbls water  
2) 2000 gals Mud Flush  
3) 2000 gals Super Flush

Lead Cement - 400 sxs Hi-Fill cement (11.0 pounds/gallon; 3.2 cubic feet /sack; 23.0 gallons/sack)

Tail-In Cement - 1310 sxs 50/50 Pozmix with 2% gel, 10% salt, 0.5% Halad-322, and 1/4 pound/sk Flocele. (14.4 pounds/gallon; 1.28 cubic feet/sack; 5.75 gallons/sack).

One 5-1/2" float shoe, float collar and centralizers.

Auxiliary equipment will be a kelly cock, a full opening stabbing valve will be on the floor at all times. The mud system will be visually monitored.

5. Mud Program and Circulating Medium:

Surface 0-230'

Will air drill surface hole to 230' or use spud mud gel/lime system with funnel viscosity of 27-35 sec./qt, API water loss no control.

230' - 4000'

Clear water with polyacrylamide sweeps. Weight 8.33-8.5, viscosity water, water loss no control.

4000' - TD

Will run a low solids nondispersed KCL/polyacrylamide. Weight 8.6 - 9, viscosity 36-40 sec./qt, water loss 10-15 cc.

These drilling fluid values will be maintained or improved in order to obtain samples while drilling through the potential pay zones.

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

6. Coring, Logging and Testing Program:

a. No Cores are planned at this time.

b. No anticipated DST's.

c. Logging Program:

DIL

TD to base of surface pipe

CNL/FDC

TD to 100' above Green River

d. A conventional mud-logger will be used from base of Surface casing to TD.

e. Planned completion involves selectivity perforating sands in the Wasatch and Mesa Verde.

f. Productive zones will be swab tested. Water produced during testing will be contained in the temporary reserve pit. All possible oil will be stored and sold.

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

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

No abnormal temperatures, pressures or potential hazards such as H<sub>2</sub>S are anticipated.

8. Anticipated Starting Dates and Notifications of Operations: Location

Construction: February 15, 1988  
Spud Date: March 8, 1988

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

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, Vernal, Utah.

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

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

8. Anticipated Starting Dates and Notifications of Operations: (cont.)

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

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

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

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

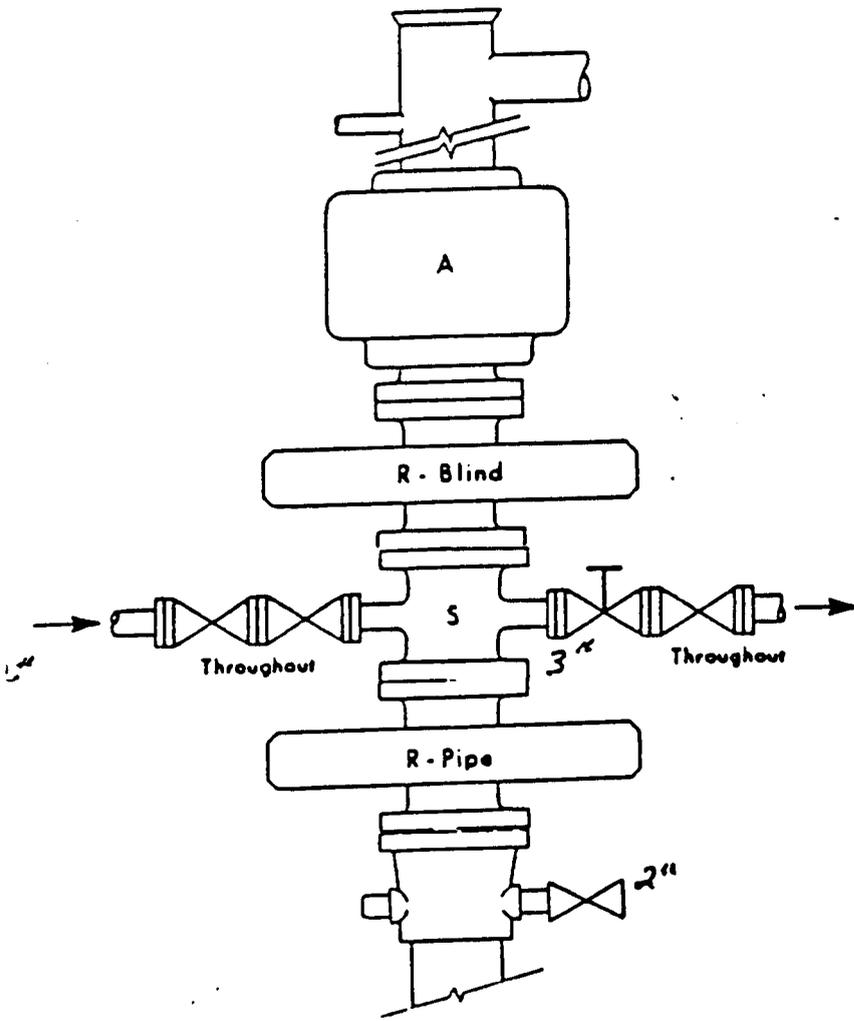


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David Talbott  
Operations Engineer  
APACHE CORPORATION

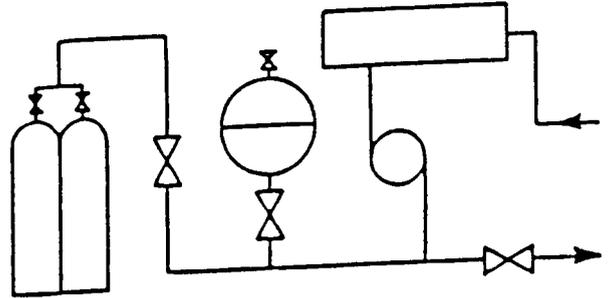
APACHE CORPORATION  
Evans Federal #3-25  
600' FNL, 2155' FWL  
Section 25-T10S-R19E  
Uintah County, Utah  
U-43156

EXHIBIT I

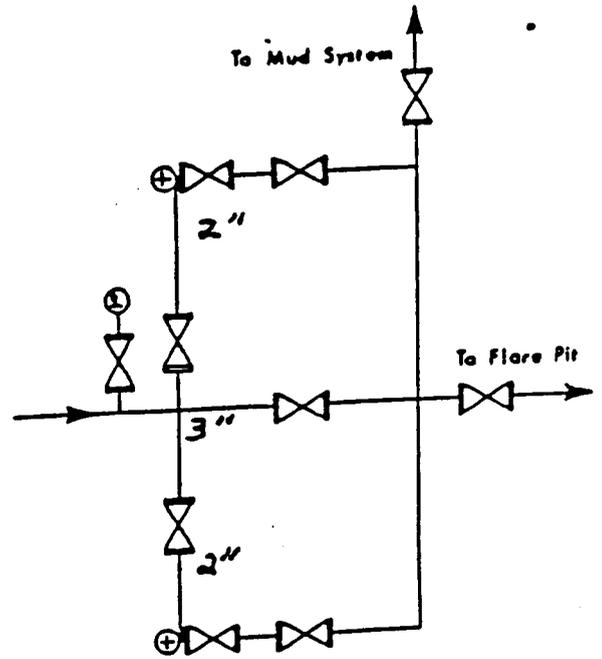
PRESSURE RATING  
3,000 psi



BLOWOUT PREVENTION STACK



ACCUMULATOR SYSTEM



Flanged Connections Throughout  
MANIFOLD SYSTEM

APACHE CORPORATION  
Evans Federal 3-25  
600' FNL, 2155' FWL  
Sec. 25, T10S, R19E  
Uintah County, Utah

MULTI-POINT SURFACE USE PLAN

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point: See Exhibit A.
- b. Proposed route to location:  
Begin at the U.S. Post Office in Vernal, Utah on Highway No. 40;  
Travel 14.15 miles southwesterly on Highway 40 to intersect Highway 88;  
Travel south on Highway 88, 26.10 miles to a "Y" and bear right;  
Travel 2.0 miles on a one lane dirt road 2.0 miles to an intersection and turn right;  
Travel 0.50 miles on a one lane dirt road to an intersection and turn right;  
Travel 6.10 miles on a one lane dirt road to an intersection and turn right;  
Travel 2.0 miles on a one lane dirt road and turn right;  
Proceed 1 mile on new access road (to be built) to location.
- c. Location and description of roads in the area: See attached map.
- d. Plans for improvement and/or maintenance of existing roads: Road will be graded and gravelled as needed to handle the traffic associated with our operations at this site.

2. Planned Access Roads:

- a. Width: The average dirt width will be 16'.
- b. Maximum grades: Maximum grade will not exceed 10%.
- c. Turnouts: No turnouts are planned.
- d. Location (center-line): The 1 mile of access road will start by intersecting the existing road located in the NE NW of Section 26. The road has been center staked with red flags to the location.
- e. Drainage: A drainage ditch will be constructed on the uphill side with a 4:1 slope with diversions away from the road as required on the downhill side where the slope exceeds 2%.
- f. Surface materials (source): All surface material will be local soil and rock.
- g. Gates, cattleguards, and fence cuts are not required.

3. Location of Existing Wells:

See Exhibit B.

4. Location of Tank Batteries and Production Facilities:

All permanent structures and facilities constructed or installed on location will be painted a flat, non-reflective, earth-tone color to match the standard environmental colors, as determined by the Bureau of Land Management. A structure or facility will be considered permanent if it has been on location more than six months. All permanent structures and facilities will be painted within six months of installation. Facilities required to comply with OSHA regulations will be excluded from painting.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1- times the storage capacity of the vessels in the battery.

Tank batteries will be placed on the SW corner of the location.

Load lines will be placed inside the dike surrounding the tank battery.

The tank battery will comply with all site security guidelines identified in 43 CFR 3162.7 regulations.

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

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:

An existing fresh-water well located in from an existing water well located in Section 17-T10S-R20E. The well is operated by CNG under permit #49-367.

6. Source of Construction Material:

No road surfacing and pad construction material will be required from off location.

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

Construction material (will/will not) be located on lease.

7. Method of Handling Waste Disposal:

The reserve pit (will/will not) be lined:

Only if necessary. The determination to line the pit will be made after the location has been constructed.

Burning (will/will not) be allowed. All trash must be contained and disposed of by:

Rubbish will be collected in a large wire-mesh cage set on the location site. Rubbish will be removed from the cage periodically and hauled to an approved sanitary landfill for disposal.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed 90 days after initial production. During the 90-day period an application for approval of a permanent method of disposal will be submitted to the AO for approval. All required water analyses will accompany the application. Failure to submit an application within the allotted time will be considered an incidence of non-compliance, which is grounds for issuing a shut-in order.

8. Ancillary Facilities:

Camp facilities (will/will not) be required.

9. Well Site Layout:

The reserve pit will be located:

See Exhibits D, E and F for pit location.

Topsoil (will/will not) be stockpiled:

Excess material from construction of the location will be stored on the NE edge of the location.

Access to the well pad will be from: See Exhibits A and B for the location of the planned access road.

The trash cage will be located: See Exhibit F.

Reserve pits will be fenced with wire-mesh fence and topped with at least one strand of barbed wire.

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash, junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

All disturbed areas will be re-claimed per BLM recommendations.

All disturbed areas, including the access roads, will be ripped, scarified and left with a rough surface.

Re-seeding, if required, will be conducted at a time specified by the BLM. Seed will either be broadcast or drilled. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

Seeding mixtures will be BLM recommended mixtures for the area. The BLM District Office in Vernal will be notified before re-seeding activities begin.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

11. Surface and Mineral Ownership:

Surface and mineral rights owner of this well is the U.S. Government.

12. Other Information:

There will be no deviation from the proposed drilling and completion program without prior approval from the AO. Safe drilling and operating practices will be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notices and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 40 CFR 3162.2.

The dirt contractor, Apache Corp. Field Foreman and Operator's Representative will be provided with an approved copy of the surface use plan.

A cultural resource clearance was completed 11/4/87, a copy of which is enclosed.

This permit will be valid for a period of one year from the date of approval. After the permit terminates, a new application will be filed for approval of any future operations.

13. Lessee's or Operators Representatives and Certification:

Representative

Name: David M. Talbott, Petroleum Engineer  
Address: Apache Corporation  
1900 United Bank Center, 1700 Lincoln Street  
Denver, CO 80203-4519  
Phone Nos: 303/837-5428; Office  
303/690-6518; Home

Alternate Representative

Name: Alex Nash, Jr., Operations Manager  
Address: Apache Corporation  
1900 United Bank Center, 1700 Lincoln Street  
Denver, CO 80203-4519  
Phone Nos: 303/837-5433; Office  
303/741-3353; Home

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are, to that the 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

APACHE CORPORATION

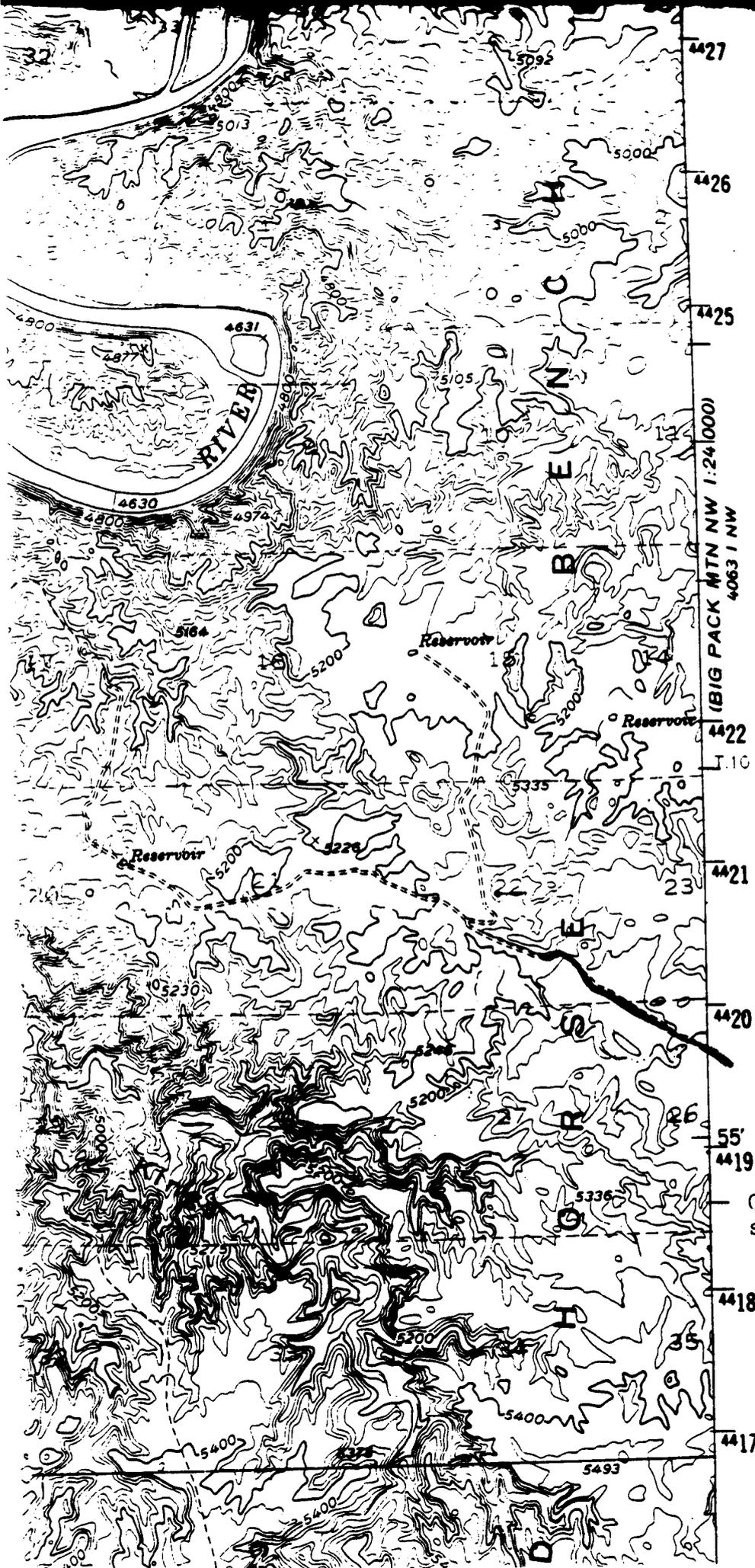
and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Jan 19, 1988  
Date

David M. Talbott  
David M. Talbott  
Operations Engineer

APACHE CORPORATION  
Evans Federal #3-25  
Sec. 25, T10S, R19E  
Uintah County, Utah  
U-43156





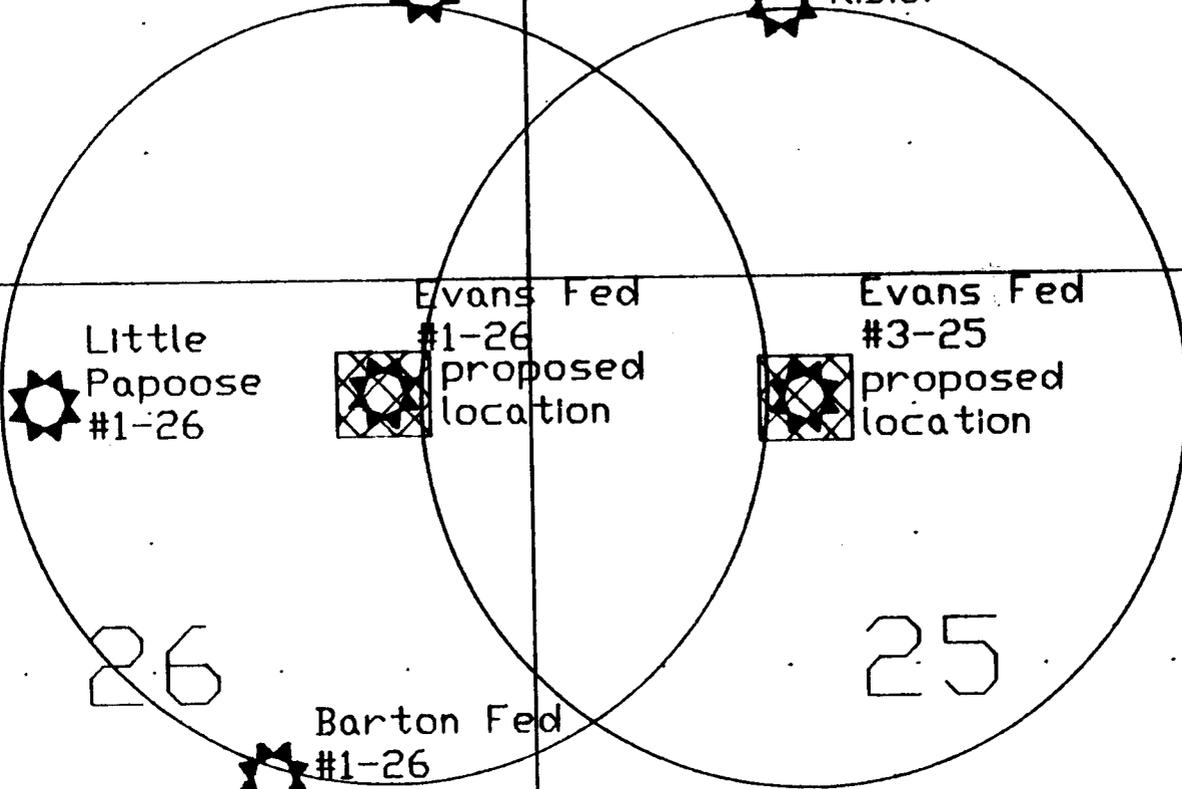
Extension of road from Big Pack  
Quadrangle. Maps not spliced due to  
scale change.

23

24

R.B.U.  
9-23E

#11-24-E  
R.B.U.



Evans Fed  
#1-26  
proposed  
location

Evans Fed  
#3-25  
proposed  
location

Little  
Papoose  
#1-26



Barton Fed  
#1-26



Hill Creek  
Fed 1-30



26

25



EXHIBIT E  
WELL PAD CROSS-SECTION

Evans Federal 3-25

Cut   
Fill 

Scales: 1" = 60' H.  
1" = 30' V.

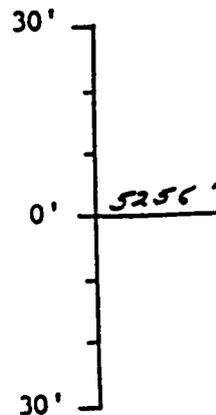
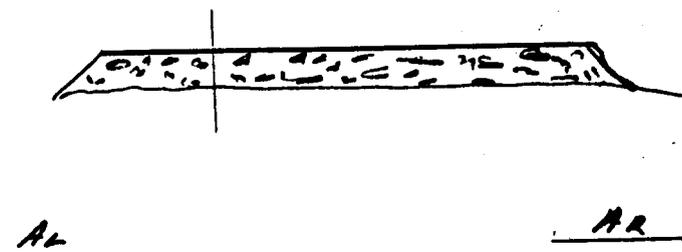
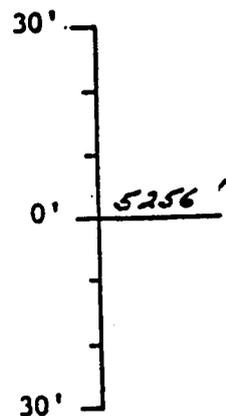
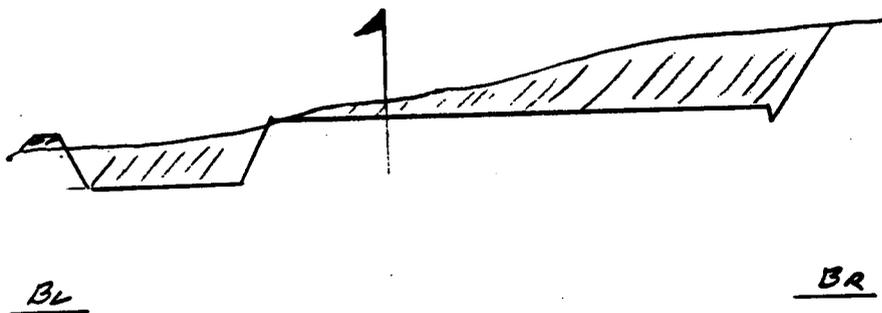
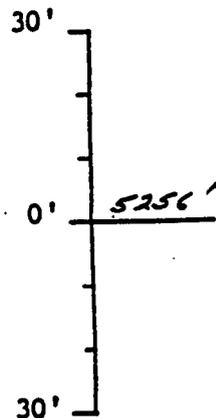
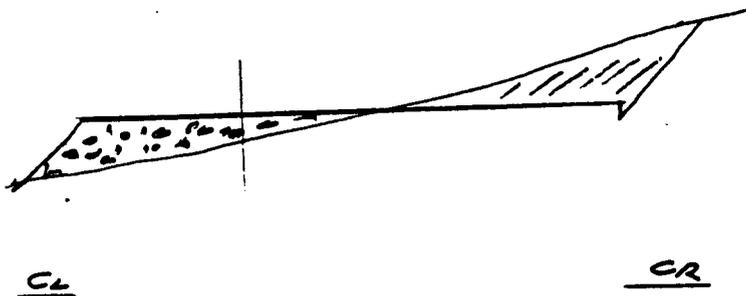
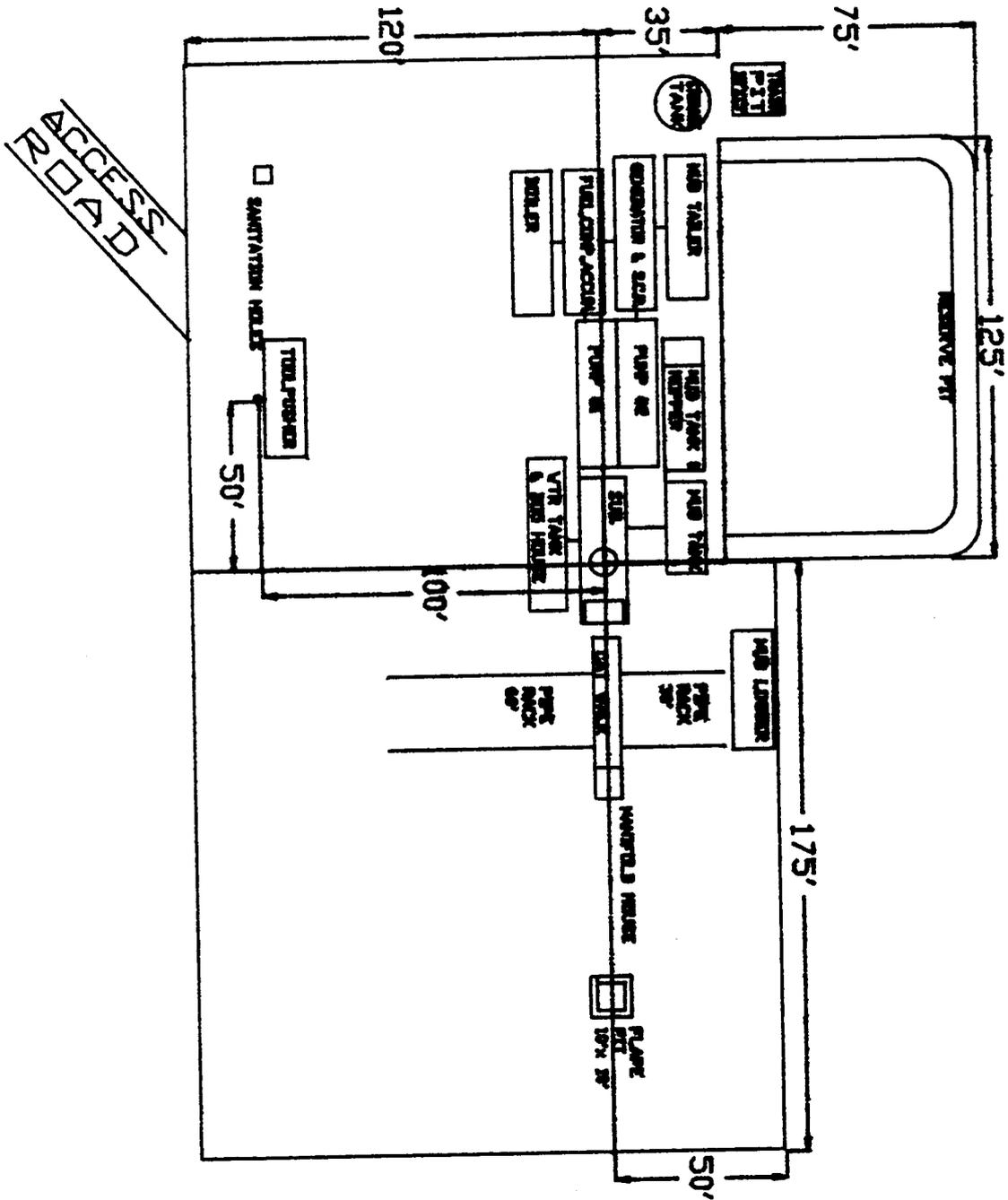


EXHIBIT F

# EVANS FED #3-25 APACHE CORP.



**ARCHEOLOGICAL SURVEY OF  
APACHE CORP.'S  
EVANS FED. 3-25 WELL & ACCESS,  
UINTAH COUNTY, UTAH**

**LAC REPORT 87131**

**by  
Patrick L. Harden**

**LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.  
P.O. BOX 783  
SALFORD, COLORADO 81323  
(303) 882-4933**

**NOVEMBER 19, 1987**

**FEDERAL ANTIQUITIES PERMIT  
85UT57626  
UTAH STATE PERMIT  
U87-LA-651b**

**Prepared For:**

**Apache Corp.  
1700 Lincoln St.  
Suite 4900  
Denver, Colorado 80203-4511**

## **ABSTRACT**

The archeological survey of Apache Corp.'s Evans Fed. 3-25 well pad and ca. 2500' of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on November 3, 1987. The project is located on lands administered by the Bureau of Land Management in Uintah County, Utah. An area 660 X 660 feet surrounding the well center stake and a 100' wide corridor along the access route were inventoried for cultural resources. No archeological sites were found and clearance for the project is recommended.

## **INTRODUCTION**

On November 3, 1987 the archeological survey of Apache Corp.'s Evans Fed. 3-25 well and ca. 2500 feet of access road was conducted by Patrick Harden of La Plata Archeological Consultants, Inc. of Dolores, Colorado. The project is located in Uintah County, Utah on lands administered by the Bureau of Land Management - Book Cliffs Resource Area.

The project will consist of the construction of a single well pad ca. 275 X 325' in size, and an access road ca. 2500' in length. The access will connect with the access to Apache's Evans Fed. 1-26 well west of the well pad. The access to the 1-26 well has been archeologically surveyed and no cultural resources are in its vicinity.

The well and access road are situated in the NW 1/4 of section 25, T10S, R19E. The area is included on the Big Pack Mtn. NW quadrangle (1968).

## **PHYSIOGRAPHY AND ENVIRONMENT**

The project area is located on Wildhorse Bench, approximately four miles east of the Green River, and ca. three miles west of Hill Creek. The well pad is situated in the bottom of a large swale at the base of a relatively prominent ridge. The access road is mostly in flat terrain, but traverses a ridge slope for ca. 300' west of the well pad. Sediments consist of residual clay, sand, and gravels in the well pad area. Sandy loam and gravels are prevalent over most of the access road area, although colluvial cobbles are dominant where the access traverses the ridge slope.

Vegetation consists of bur sage, prickley pear, horsebrush, and grasses. The vegetation in the well pad vicinity is particularly sparse.

## **SURVEY PROCEDURES**

Prior to the field investigations a file search was requested through the Division of State History, and another search attempted at the BLM office in Vernal. The State search indicated that no archeological sites had been previously recorded in the project area.

On-the-ground survey entailed walking a series of transects spaced 15 meters apart across an area 660 X 660 feet (ten acres) surrounding the well center stake. Two transects were walked along the access route, effectively inventoring a 100' wide corridor.

## **SURVEY RESULTS**

No cultural resources were found in the areas surveyed. The nature of the sediments makes the possibility of buried cultural deposits being present highly unlikely.

## **CONCLUSION**

The archeological survey of Apache Corp.'s Evans Fed. 3-25 well pad and ca. 2500' of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on November 3, 1987. The project is located on lands administered by the Bureau of Land Management in Uintah County, Utah. An area 660 X 660' surrounding the well center stake and a 100' corridor along the access route were archeologically surveyed. No cultural resources were found and final archeological clearance for the project is recommended.

ARCHEOLOGICAL SURVEY OF  
APACHE CORP.'S  
EVANS FED. 3-25 WELL & ACCESS,  
UINTAH COUNTY, UTAH

LAC REPORT 87131

by  
Patrick L. Harden

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.  
P.O. BOX 783  
DENVER, COLORADO 81323  
(303) 882-4933

NOVEMBER 19, 1987

FEDERAL ANTIQUITIES PERMIT  
85UT57626  
UTAH STATE PERMIT  
U87-LA-651b

Prepared For:

Apache Corp.  
1700 Lincoln St.  
Suite 4900  
Denver, Colorado 80203-4511

## **ABSTRACT**

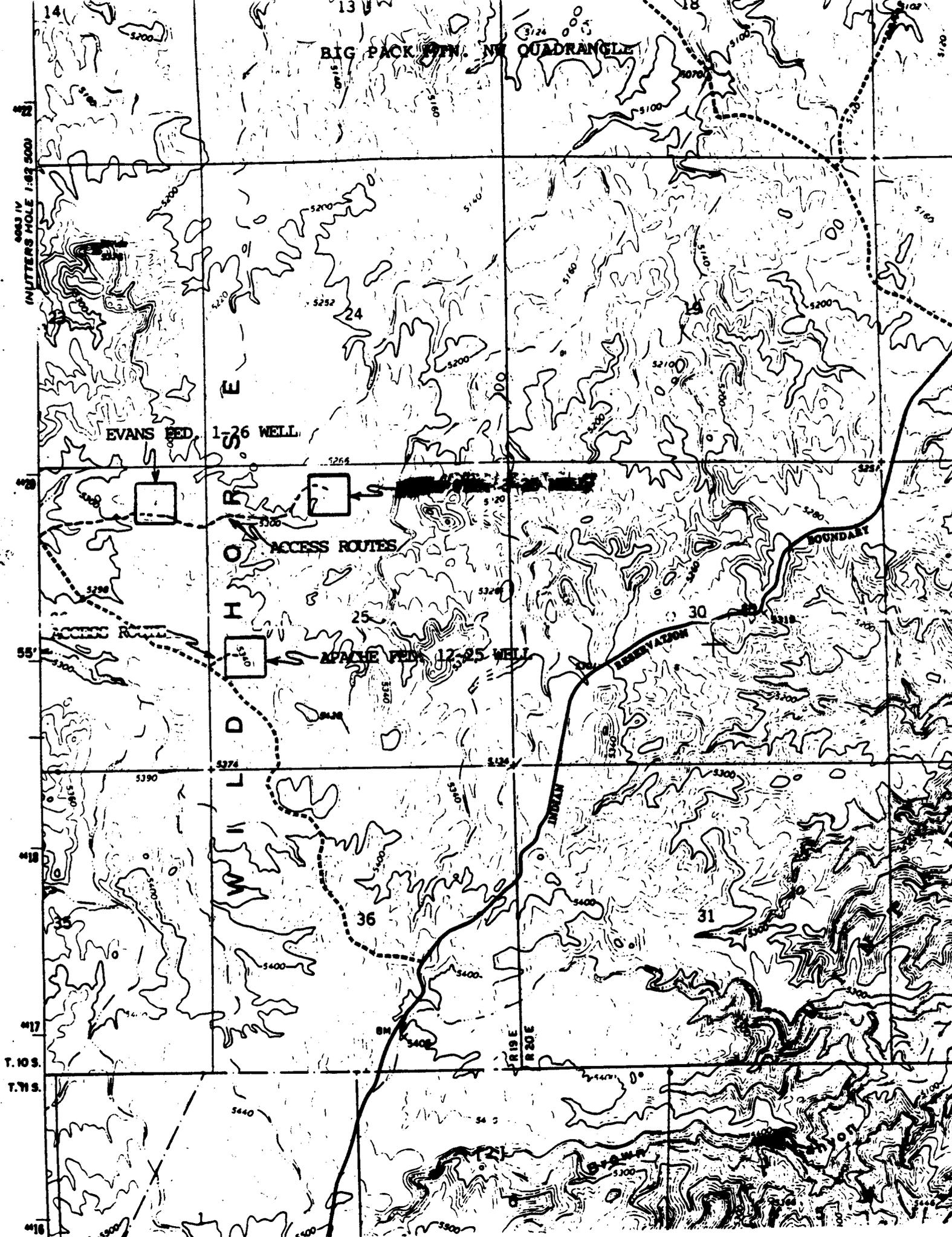
The archeological survey of Apache Corp.'s Evans Fed. 3-25 well pad and ca. 2500' of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on November 3, 1987. The project is located on lands administered by the Bureau of Land Management in Uintah County, Utah. An area 660 X 660 feet surrounding the well center stake and a 100' wide corridor along the access route were inventoried for cultural resources. No archeological sites were found and clearance for the project is recommended.

## **INTRODUCTION**

On November 3, 1987 the archeological survey of Apache Corp.'s Evans Fed. 3-25 well and ca. 2500 feet of access road was conducted by Patrick Harden of La Plata Archeological Consultants, Inc. of Dolores, Colorado. The project is located in Uintah County, Utah on lands administered by the Bureau of Land Management - Book Cliffs Resource Area.

The project will consist of the construction of a single well pad ca. 275 X 325' in size, and an access road ca. 2500' in length. The access will connect with the access to Apache's Evans Fed. 1-26 well west of the well pad. The access to the 1-26 well has been archeologically surveyed and no cultural resources are in its vicinity.

The well and access road are situated in the NW 1/4 of section 25, T10S, R19E. The area is included on the Big Pack Mtn. NW quadrangle (1968).



BIG PACK TOWN, NE QUADRANGLE

4003 IV  
INLETTERS HOLE 1:82 5000

EVANS BED, 1-26 WELL

ACCESS ROUTES

APACHE PEAK, 12-25 WELL

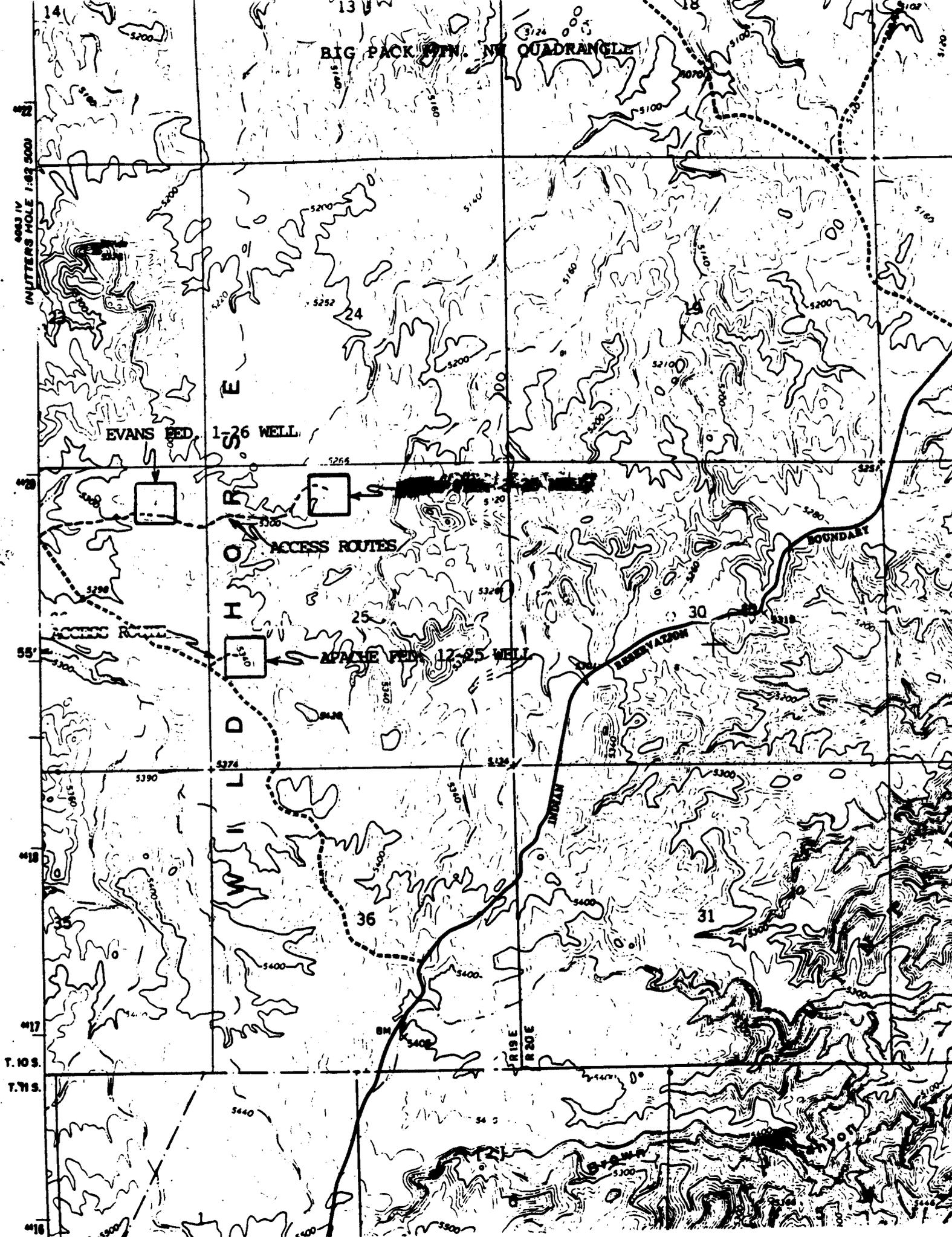
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RESERVAISON

BOUNDARY

T. 10 S.  
T. 11 S.

R 19 E  
R 20 E



## **PHYSIOGRAPHY AND ENVIRONMENT**

The project area is located on Wildhorse Bench, approximately four miles east of the Green River, and ca. three miles west of Hill Creek. The well pad is situated in the bottom of a large swale at the base of a relatively prominent ridge. The access road is mostly in flat terrain, but traverses a ridge slope for ca. 300' west of the well pad. Sediments consist of residual clay, sand, and gravels in the well pad area. Sandy loam and gravels are prevalent over most of the access road area, although colluvial cobbles are dominant where the access traverses the ridge slope.

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021902

OPERATOR Apache Corp. DATE 2-9-88

WELL NAME Evans Fed. 3-25

SEC NE NW 25 T 10S R 19E COUNTY Uitah

43-047-31836  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'  
Water permit & - per Water Rights #49-367

APPROVAL LETTER:

SPACING:  R615-2-3 \_\_\_\_\_ UNIT

R615-3-2

\_\_\_\_\_ CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

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



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 11, 1988

NE5040

Apache Corporation  
1700 Lincoln, Suite 1900  
Denver, Colorado 80203-4519

Gentlemen:

Re: Evans Federal 3-25 - NE NW Sec. 25, T. 10S, R. 19E  
600' FNL, 2155' FWL - Uintah County

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules.

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

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Apache Corporation  
Evans Federal 3-25  
February 11, 1988

6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31836.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

2. NAME OF OPERATOR  
 APACHE CORPORATION

3. ADDRESS OF OPERATOR  
 1700 Lincoln, Suite 1900, Denver, CO 80203-4519

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface 600' FNL & 2155' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 51 miles from Vernal, Utah 43-047-31836

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

16. NO. OF ACRES IN LEASE  
 600

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

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

19. PROPOSED DEPTH  
 8400'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5259' GR

22. APPROX. DATE WORK WILL START\*  
 2/15/88

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	230'	125 SXS
7-7/8"	5-1/2"	17#	8400'	1710 SXS

The subject well will be drilled to test the productive potential of the Wasatch and Mesa Verde zones encountered. Significant oil/gas shows will be tested. The well will be cased and cemented as described above. If the well is plugged and abandoned, the operation will be completed in accordance with instructions from the BLM. Apache requests that this APD be considered for a right-of-way permit. Attachments are:

- Conditions of Approval for Notice to Drill
- Multi-Point Surface Use Plan which include:
  - 1) Plat
  - 2) Access Roads
  - 3) Drillsite Plan
  - 4) Drillsite Cross-Section
  - 5) Rig Layout

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 David M. Talbott TITLE Operations Engineer DATE 1/18/88  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 2-22-88  
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

\*See Instructions On Reverse Side

UT080-8m27  
 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.

Div OGM

1988 JAN 21 AM 10:08  
 DISTRICT OFFICE

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Apache Corporation Well No. 3-25

Location NE/NW Sec. 25, T.10S., R.19E. Lease No. U-43156

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

A. DRILLING PROGRAM

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

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

2. Pressure Control Equipment

All BOPE and testing procedures will be consistent with API RP 53.

RAM- type preventers shall be tested to 2400 psi. Annular Bag - type preventers shall be tested to 1500 psi.

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Cement for the surface casing shall be brought up to ground level.

Fresh water may be encountered in the Uintah Formation from 325' to 575' and 930' - 1,060', and in the Green River Formation from 1,325' - 1,525'. Fresh to saline water is anticipated in the Green River Formation from 2,200' - 3,000', 3,325' - 3,425' and 4,200' - 4,530'.

Oil Shale is anticipated in the Mahogany Zone of the Parachute Creek Member of the Green River Formation at 1,680' - 1,760'.

The proposed cementing program for the production casing should provide protection and/or isolation of the aforementioned fresh water and mineral resource zones (i.e. cement up to at least 1,650'). If, however, wellbore conditions prevents successful cementing operations, immediately notify Al McKee or Jerry Kenczka of this office for possible remedial procedures.

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

4. Coring, Logging and Testing Program

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

5. Notifications of Operations

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

6. Other Information

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

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

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

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

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

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

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

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

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

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

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

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

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

R. Allen McKee (801) 781-1368  
Petroleum Engineer

Craig M. Hansen (801) 247-2318  
Assistant District Manager  
for Minerals

Revised October 1, 1985

Date NOS Received 11/22/87

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator Apache Corporation

Well Name & Number Evans Federal No. 3-25

Lease Number U-43156

Location NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 25 T. 10S., R. 19E.

Surface Ownership Federal - BLM

B. THIRTEEN POINT SURFACE USE PROGRAM:

Multipoint Requirements to Accompany APD

1. Existing Roads

All travel will be confined to existing access road rights-of-way.

Access roads and surface disturbing activities will conform to standards outlined in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development.

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall 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 shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

2. Methods for Handling Waste Disposal

Cuttings will be settled out in the reserve pit or other approved disposal method.

Sewage will be contained in a proper container and disposed of in a state approved disposal system.

Following drilling liquid waste from drilling fluids will be evaporated and the remainder worked into the deep subsoil of the reserve pit prior to back filling and restoration or will be hauled to an approved disposal pit.

Produced oil will be held until sold as tankage or hauled to an approved disposal.

Pits are not to be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls, unless otherwise herein provided.

The reserve pit shall not be lined unless lining is needed to conserve water and drilling fluid.

If the pit is lined, it shall be constructed so as not to leak, break, or allow discharge.

The bottom of the reserve pit shall not be in fill material.

### 3. Well Site Layout

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until clean-up.

The fence will be constructed as prescribed in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development. Alternatives to the prescribed standards shall be submitted to the Authorized Officer for approval.

### 4. Plans for Restoration of Surface

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within 120 days from the date of well completion.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled from September 15 until the ground freezes. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

An appropriate seed mixture will be determined by the BLM at the time restoration activities are scheduled to begin.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

The BLM recommends the following procedure for reclamation:

Compacted areas of the well pad should be plowed or ripped to a depth of 12" before reseeding. Seeding should be done with a disc-type drill to ten inches apart. The seed should be planted between one-half inch deep and three-quarter inch deep. A drag, packer or roller may be used to insure uniform coverage of the seed, and adequate compaction. Drilling of the seed should be done on the contour where possible. Where slopes are too steep for contour drilling, a "cyclone" hand-seeder or similar broadcast seeder should be used, using twice the recommended seed per acre. Seed should then be covered to a depth described above by whatever means is practical.

5. Other Additional Information

If, during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.

On BLM administered land, it is required that a proposed use of pesticide, herbicide or other possible hazardous chemicals shall be cleared for use prior to application.

The operator or his contractor shall contact the BLM Bookcliffs Resource Area Minerals Staff at (801) 789-1362 between 24 and 48 hours prior to construction activities. Contact Jim Piani or Keith Chapman.

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

RECEIVED

MAR 22 1989

DIVISION OF  
OIL, GAS & MINING

3162.35  
UT-08438

March 16, 1989

Apache Corporation  
1700 Lincoln, Suite 1900  
Denver, CO 80203-4519

Re: Rescind Application for Permit to Drill  
Well No. 3-25 and 1-26  
Section 25 & 26, T10S, R19E  
Uintah County, Utah  
Lease No. U-43156

*43-047-31836 - Sec. 25, 10S 19E*  
*43-047-31837 - Sec 24, 10S 19E*

Gentlemen:

The Application for Permit to Drill the referenced wells were approved on February 22, 1988. Since that date, no known activity has transpired at the approved locations. Under current District policy, Applications for Permit to Drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at these locations at a future date, a new Application for Permit to Drill must be submitted.

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

Sincerely,



Howard B. Cleavinger  
ADM for Minerals

bcc: Well File  
State O & G  
U-922/U-943  
RA  
AIRS  
U-942

MHerrmann:plp



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

March 27, 1989

Apache Corporation  
1700 Lincoln, Suite 1900  
Denver, CO 80203-4519

Gentlemen:

Re: Federal 3-25 and 1-26 Wells, Sec.25 and 26, T.10S, R.19E, Uintah County,  
Utah API No's: 43-047-31836 and 43-047-31837

In concert with action taken by the Bureau of Land Management, approval to drill the above referenced wells is hereby rescinded. New Applications for Permits to Drill must be filed with this office for approval prior to the commencement of any future work on the subject locations.

If any previously unreported operations have been performed on these well locations, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don T. Staley  
Administrative Supervisor

TAS/tc

cc: D. R. Nielson

R. J. Firth

BLM-Vernal

Well files

WE16/103