

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Cotton Petroleum Corporation

## 3. ADDRESS OF OPERATOR

717 17th Street, Suite 2200, Denver, Colorado 80202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

1850' FWL, 900' FNL, Section 14

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

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

790'

## 16. NO. OF ACRES IN LEASE

## 19. PROPOSED DEPTH

3200'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6869' GR

## 22. APPROX. DATE WORK WILL START\*

April, 1980

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	100'	150 sx
7-7/8"	4-1/2"	10.5#	3200'	To be determined

It is proposed to drill this well with rotary tools using drilling mud for circulation through the Pictured Cliffs formation. All possible productive intervals in the Pictured Cliffs will be completed.

Estimated formation tops:

Ojo Alamo	2500'	Fruitland	2920'
Kirtland	2700'	Pictured Cliffs	3040'

The NW $\frac{1}{4}$  of Section 14 is dedicated to this well. The gas produced from this well will be sold to Northwest Pipeline Co.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed 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

*D.E. Wood*

TITLE Division Production Mgr.

DATE October 23, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*h. F. ...*

\*See Instructions On Reverse Side

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-76

All distances must be from the outer boundaries of the Section

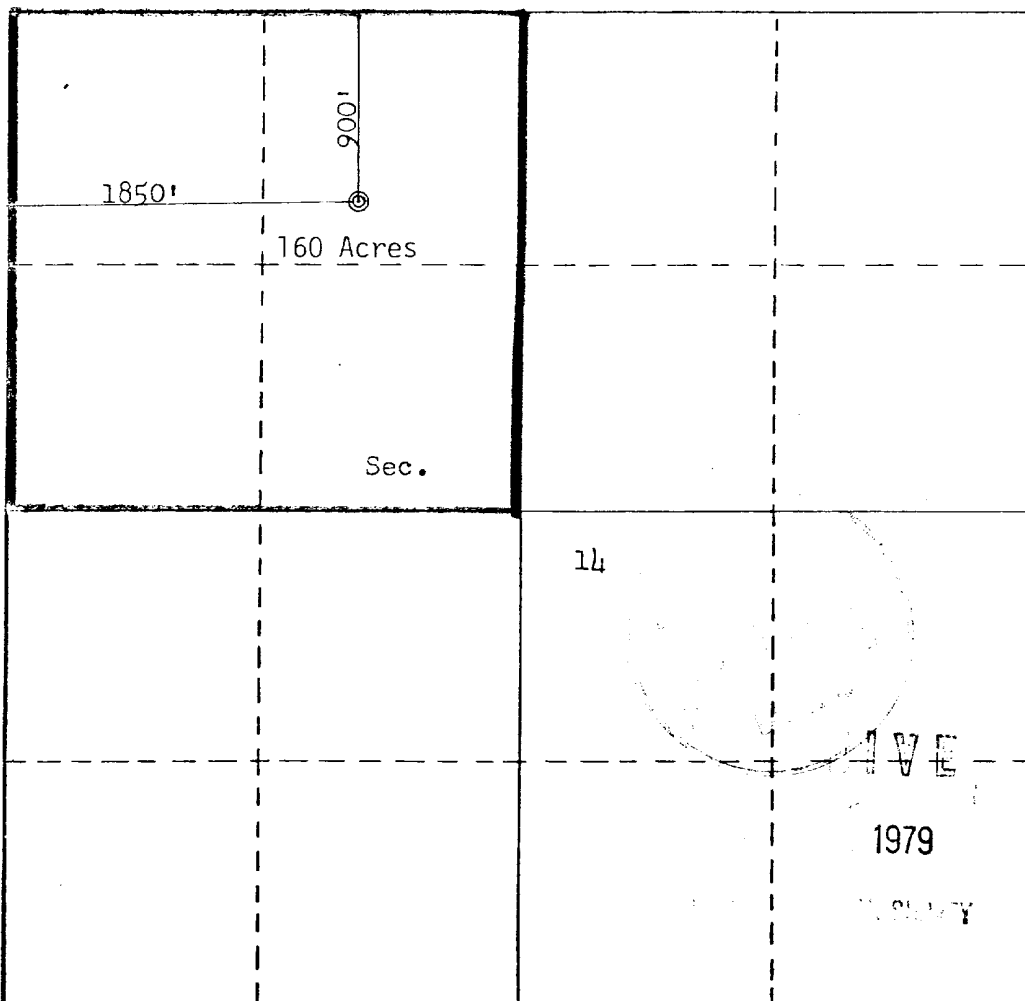
Operator COTTON PETROLEUM CORPORATION			Lease APACHE		Well No. 29
Unit Letter C	Section 14	Township 24N	Range 4W	County Rio Arriba	
Actual Footage Location of Well: 900 feet from the North line and 1850 feet from the West line					
Ground Level Elev. 6869	Producing Formation Pictured Cliffs		Pool So. Blanco Pictured Cliffs	Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*D.E. Wood*

Name

D. E. Wood

Position

Division Production Manager

Company

Cotton Petroleum Corporation

Date

October 23, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

October 12, 1979

Registered Professional Engineer  
and/or Land Surveyor*Fred B. Kerr Jr.*

Certificate No. MEXICO

3950 B. KERR JR.

COTTON PETROLEUM CORPORATION  
APACHE NO. 29

Multi-Point Surface Use Plan

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
3. Location of Existing Wells - Please refer to Attachment No. 2.
4. Location of Tank Batteries - Production facilities will be installed on location.
5. Location and Type of Water Supply - Water for the proposed project will be obtained from a water hole located at Largo Wash, SW/4, Sec. 9, T24N, R4W.
6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.
7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on Attachment No. 3. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located

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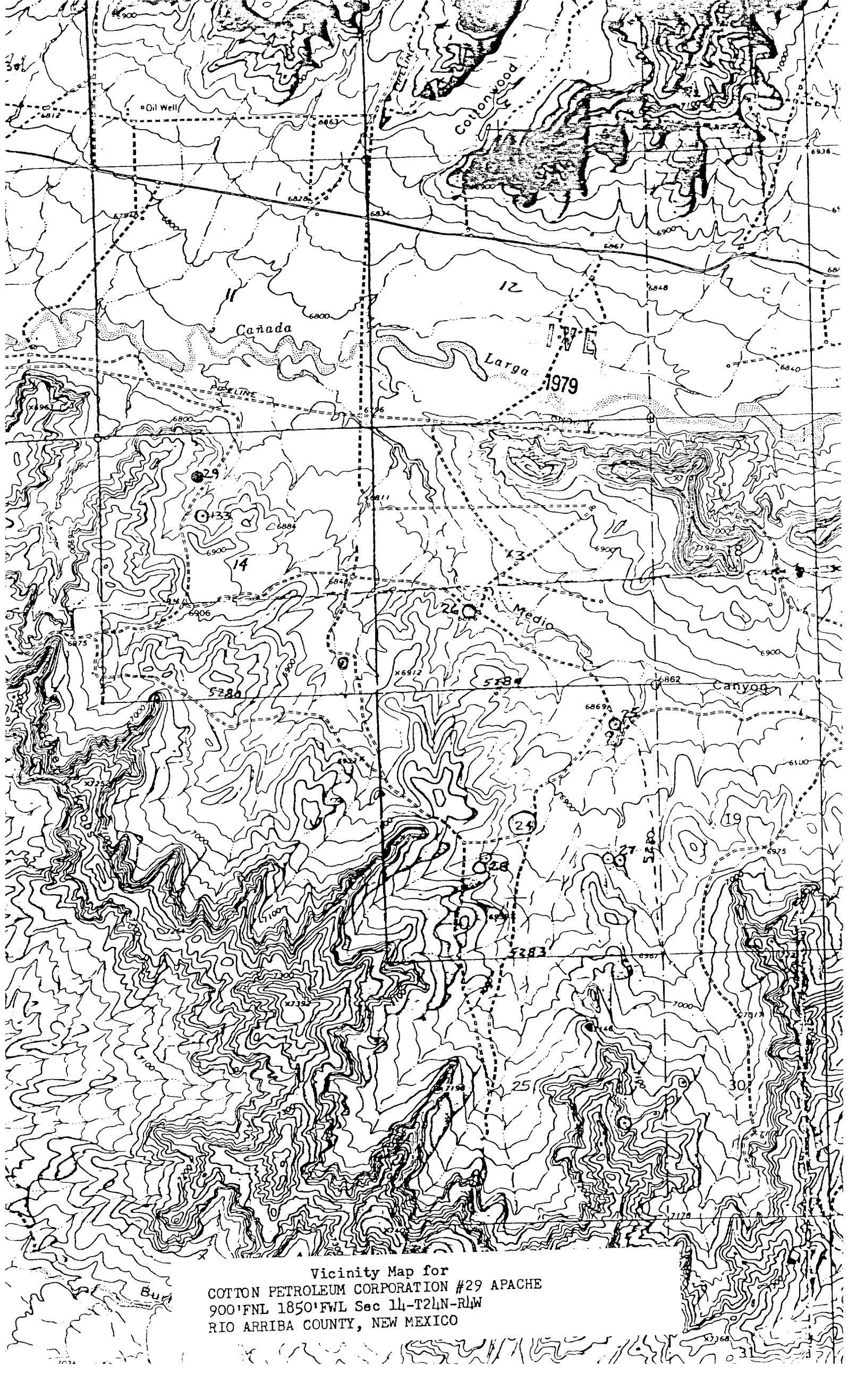
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on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

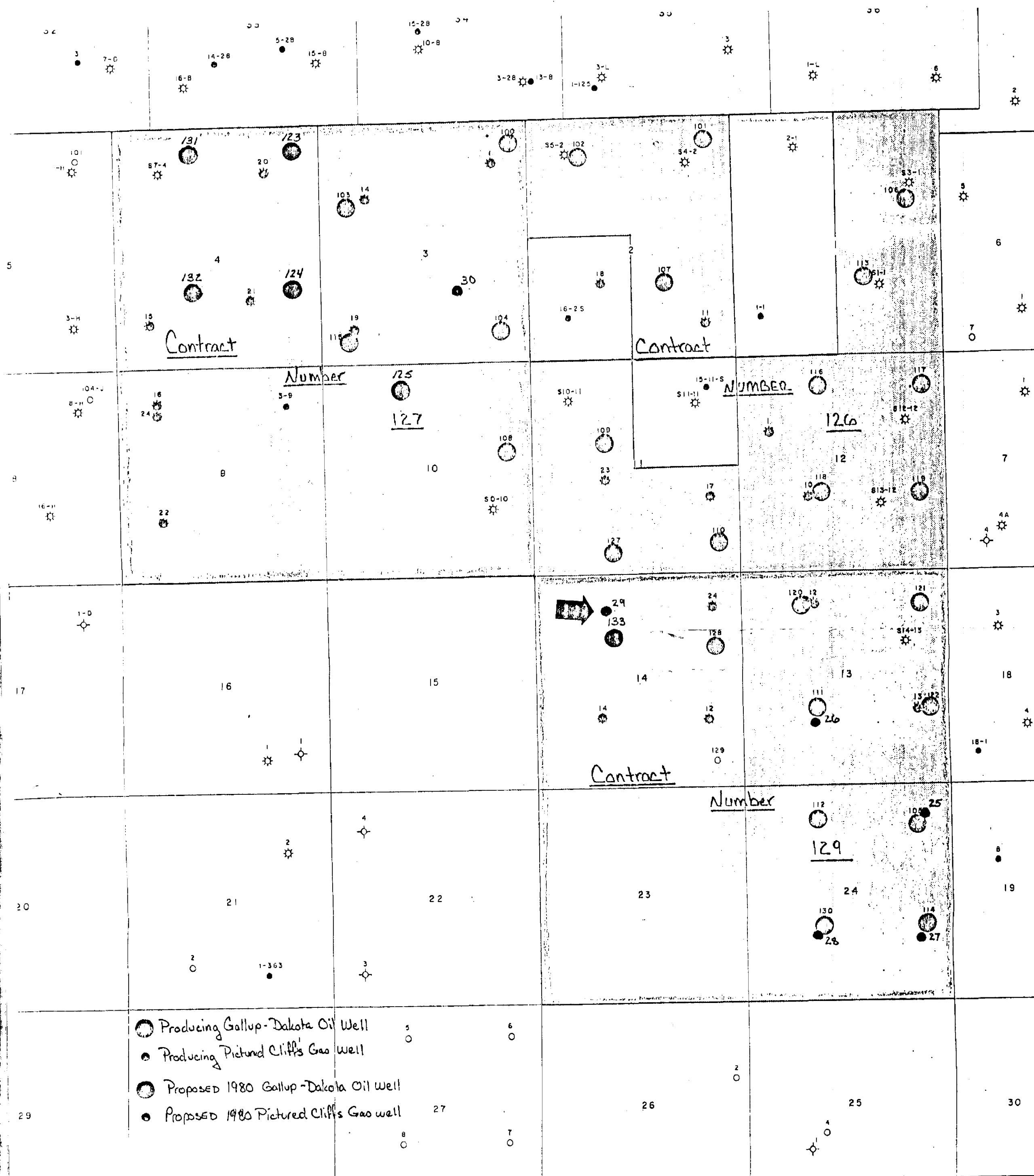
8. Ancillary Facilities - No camps or airstrips will be associated with this project.
9. Wellsite Layout - Please refer to Attachment No. 3.
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be left in such a condition that will enable reseeding operation to be carried out. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted.
11. Other Information - The terrain is high sandstone ledges and sagebrush flats with pinon and cedar growing. Cattle graze the proposed project site.
12. Operator's Representatives - Howard Davis  
Farmington, New Mexico  
Phone: (505) 325-2409 (Office)  
(505) 327-6443 (Home)  
Steve Zamets  
Denver, Colorado  
Phone: (303) 893-2233 (Office)  
(303) 794-0494 (Home)  
D. E. Wood  
Denver, Colorado  
Phone: (303) 893-2233 (Office)  
(303) 773-2722 (Home)
13. 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 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 Cotton Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

D. E. Wood / XGS

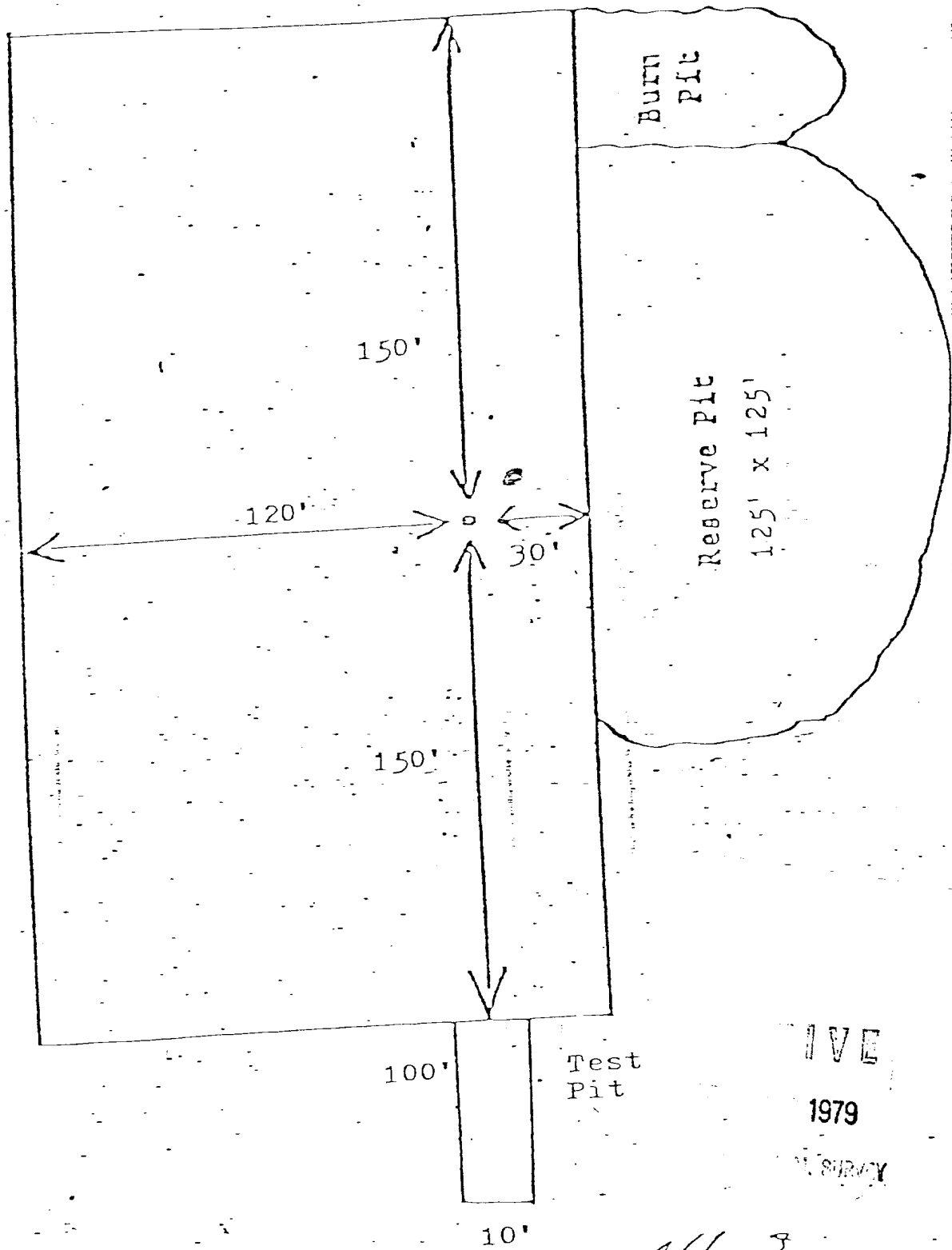
D. E. Wood, Division Production Manager



Vicinity Map for  
COTTON PETROLEUM CORPORATION #29 APACHE  
900' FNL 1850' FWL Sec 14-T24N-R4W  
RIO ARRIBA COUNTY, NEW MEXICO



- Producing Gallup-Dakota Oil Well
- Producing Pictured Cliffs Gas well
- Proposed 1980 Gallup-Dakota Oil Well
- Proposed 1980 Pictured Cliffs Gas well



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Attachment 3

COTTON PETROLEUM CORPORATION

APACHE NO. 29 -

1850' FWL, 900' FNL

Sec 24 - T24N-R4W

Rio Arriba Co., N.M.

Seven Point Well Control Program

1. Surface Casing.  
See Application for Permit to Drill.
2. Spools and Flanges.
  - A. Surface Casing - 10", Series 900, 3000 psi W.P.
  - B. Production, 10", Series 900, 3000 psi W.P.
  - C. Tubing Head - Series 900, 3000 psi. W.P.
3. Intermediate Casing.  
None
4. Blowout Preventers  
Production Hole - 10", 3000 psi  
Fill, kill and choke manifold - 5000 psi. W.P.
5. Additional Equipment (If necessary)
  - A. Kelly Cock
  - B. Bit Float
  - C. Degasser
  - D. Pit Level Indicator
  - E. Sub with Valve for drill pipe.
6. Anticipated Bottom Hole Pressure.  
3100 psi. Current mud program is for 9.2 lb./gal mud with hydrostatic head of 3600 psi at 7390 feet. Mud weight will be increased if necessary for higher pressures.
7. Drilling Fluid.  
Oil Base Mud.

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COLEMAN DRILLING CO.

P. O. BOX 1515

FARMINGTON, N. M. 87401

PHONE 305 / 322-8892

## DRILLING RIG INVENTORY

RIG # 2

RATED DEPTH CAPACITY 8,000 FEET WITH 4 1/2" DRILL PIPE

DERRICK: 127' LEE C. MOORE W/440,000 HOOK LOAD CAPACITY

SUBSTRUCTURE: LEE C. MOORE - 13' K.B.

DRAWWORKS: H-40 D IDECO

ENGINES: 2 EACH V-8 DETROIT DIESEL

MUD PUMPS: IDECO MM600 W/CATERPILLER D-379TA  
555 MAX. HP AT 1100 RPM  
500 INT. HP AT 1100 RPM  
420 CONT. HP AT 1100 RPM

AUXILIARY MUD PUMP  
GARDNER-DENVER F X Z  
W/343TAC CATERPILLER

DESILTER: PIONEER 8 CONE CAPACITY 400 GPM

MUD TANK: 1 EACH 500 BBL. (42 GAL PER BBL.) WORKING CAPACITY

WATER STORAGE: 1 EACH 480 BBL. (42 GAL PER BBL.)

GENERATORS: 1 EACH 90 KW AC AND 1 EACH 30 KW AC

ROTARY TABLE: 23" IDECO

TRAVELING BLOCK: NATIONAL 430 - 150 TONS W/COMB. HOOK

SWIVEL: OILWELL PC 225

BLOW OUT PREVENTER: 10" SHAFFER LWS 3000 WP HYDRAULIC

SPECIAL: CROWN-O-MATIC  
SATELITE AUTOMATIC DRILLER  
TONG TORQUE GAUGE  
RATE OF PENETRATION RECORDER  
SHALE SHAKER  
TRAILER HOUSE  
TWO-WAY RADIO

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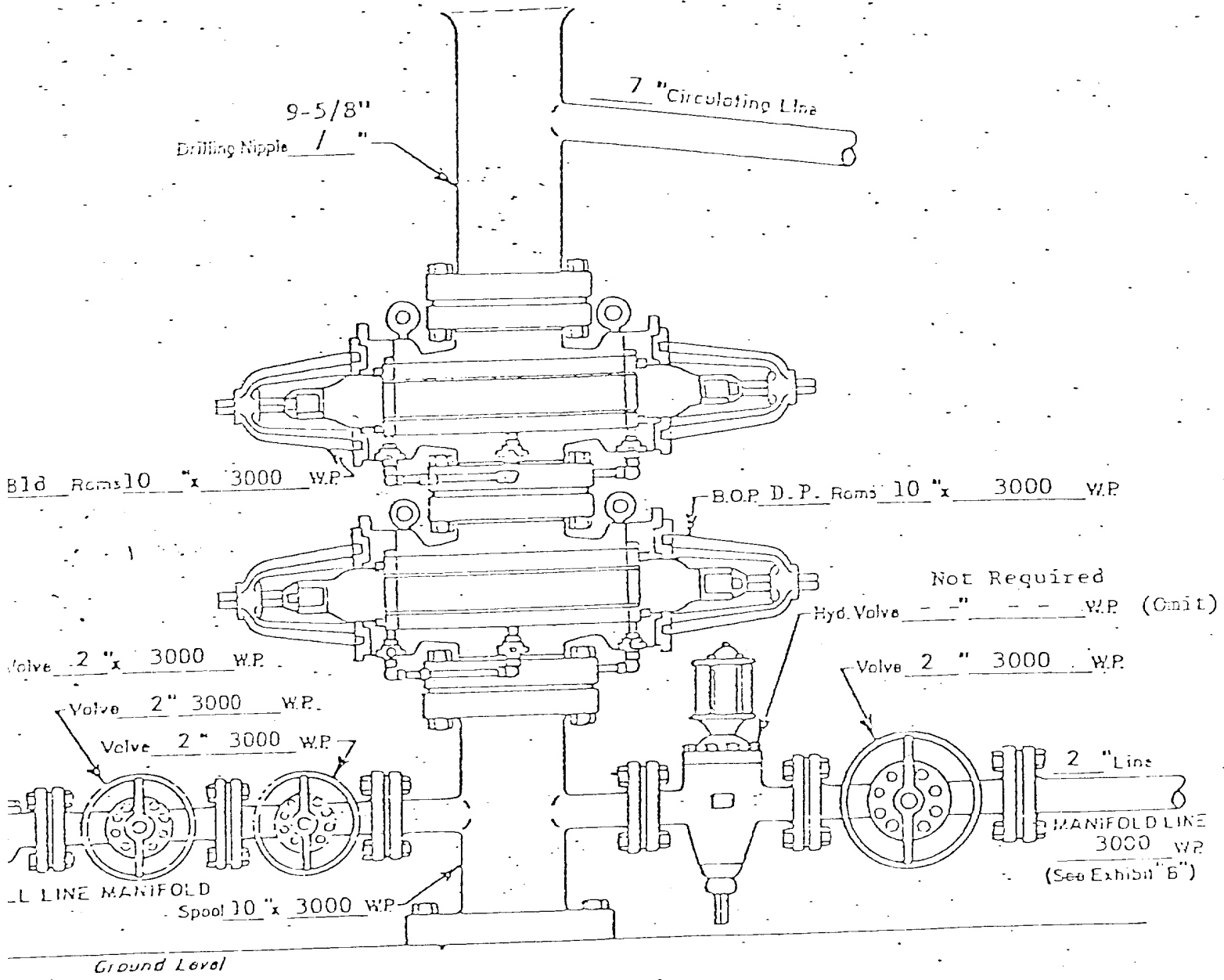
SURVEY

WELL NAME: Apache No. 29

LOCATION: 1850' FWL, 900' FNL

Sec.24 -T24N-R4W

Rio Arriba Co., N.M.



WELL HEAD B.O.P.  
3000 W.P.

☒ Hydraulic

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SECURITY