

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

El Paso Natural Gas Company

## 3. ADDRESS OF OPERATOR

PO Box 289, Farmington, NM 87401

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

At surface

1510'N, 1550'W

At proposed prod. zone

same

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

2 miles South of Aztec, NM

## 15. DISTANCE FROM PROPOSED\*

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

1510'

## 16. NO. OF ACRES IN LEASE

1920.0

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

158.25

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

600'

## 19. PROPOSED DEPTH

2410'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5879'GL

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

## 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"	24.0#	120'	106 cu.ft.circ.to surface
6 3/4"	2 7/8"	6.4#	2410'	496 cu.ft.to cover Ojo Alam

Selectively perforate and sandwater fracture the Pictured Cliffs formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The NW/4 of Section 28 is dedicated to this well.

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

TITLE

Drilling Clerk

DATE

7-25-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

30-075-237

5. LEASE DESIGNATION AND SERIAL NO.  
SF 078138

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Morris A

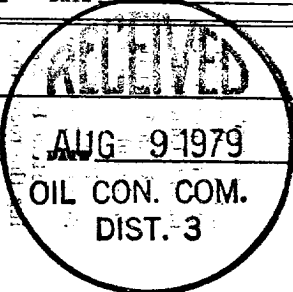
9. WELL NO.  
3R

10. FIELD AND POOL, OR WILDCAT  
Aztec Pic.Cliffs

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR APPA  
Sec. 28, T-30-N, R-11-W  
NMPM

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM



## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

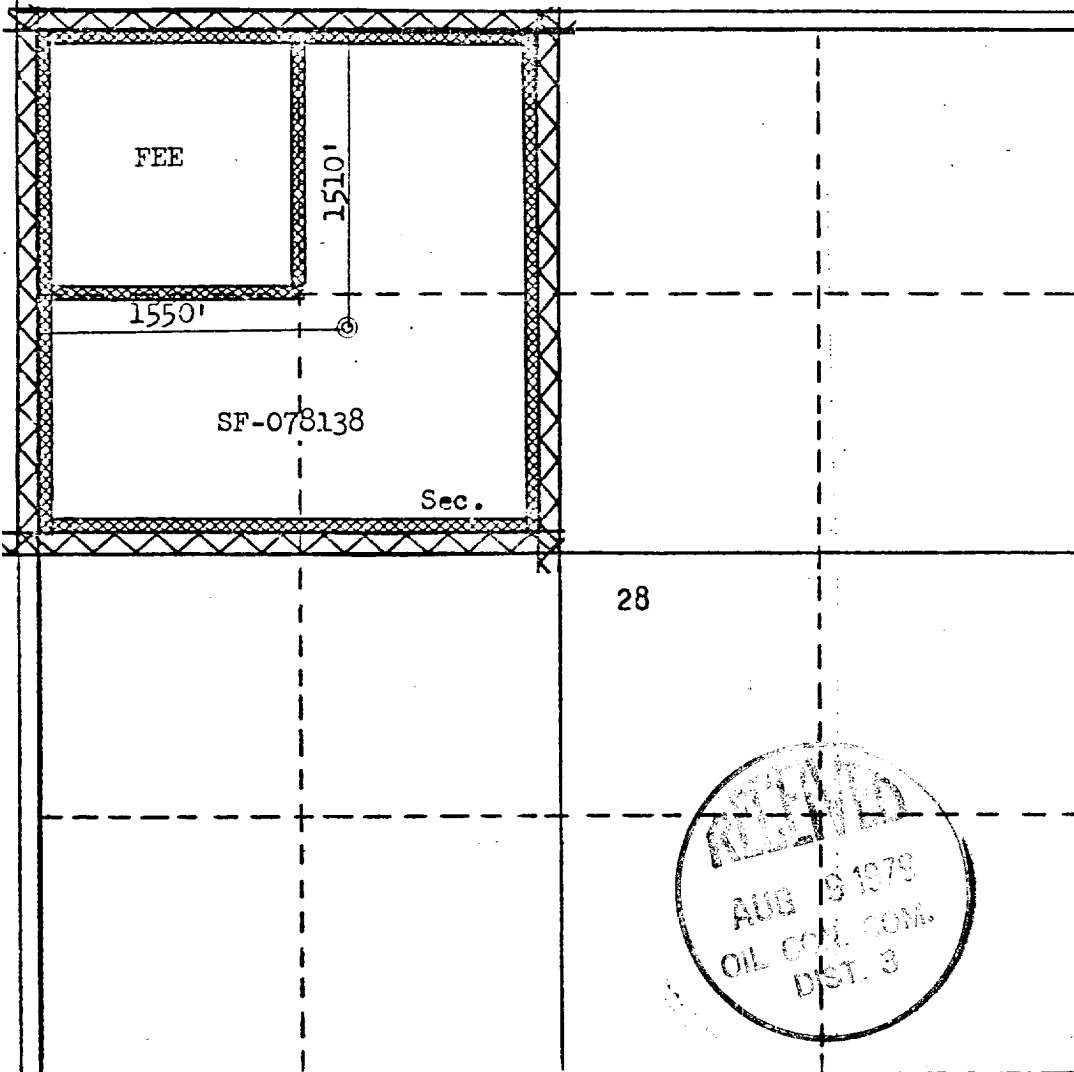
Operator EL PASO NATURAL GAS COMPANY			Lease MORRIS "A" (SF-078138)		Well No. 3-R
Unit Letter F	Section 28	Township 30N	Range 11W	County San Juan	
Actual Footage Location of Well: 1510 feet from the North line and 1550 feet from the West line					
Ground Level Elev. 5879	Producing Formation PICTURED CLIFFS		Pool AZTEC PICTURED CLIFFS	Dedicated Acreage: 158.25 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Communitization

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.

Name  
Drilling Clerk

Position  
El Paso Natural Gas Co.

Date  
July 25, 1979

Date

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

June 22, 1979

Registered Professional Engineer  
and/or Land Surveyor

Fred B. Kerr, Jr.

Certificate No.

3950

7. cont'd. will be provided for human waste. 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 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 the attached Plat No. 1.
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
11. Other Information - The terrain is rolling hills with cedar and sagebrush growing. Cattle and deer are occasionally seen on the proposed project site.
12. Operator's Representative - W.D. Dawson, PO Box 990, Farmington, NM
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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

  
L. A. Aimes

Project Drilling Engineer

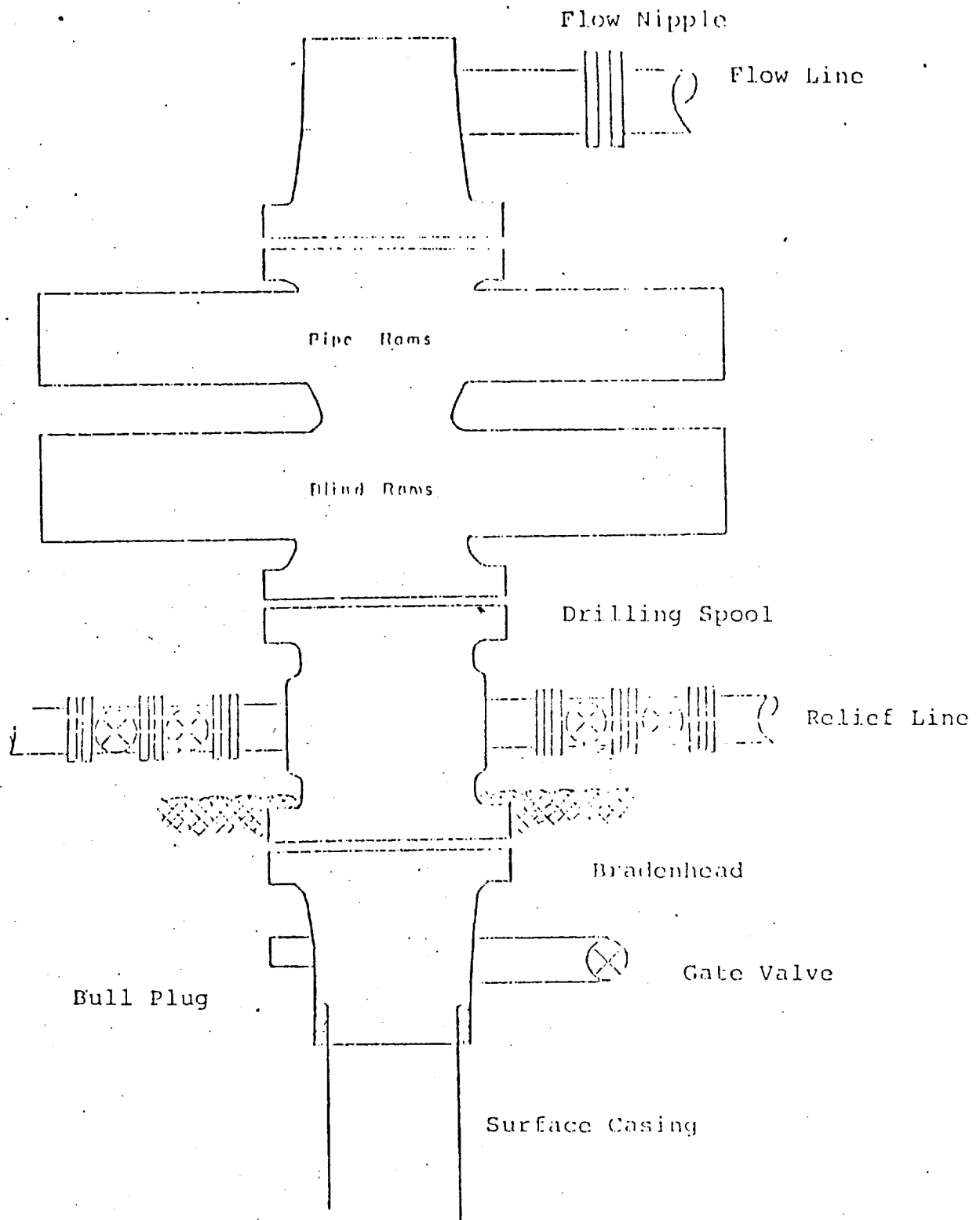
## Operations Plan - Morris A #3R

- I. Location: 1510'N, 1550'W, Section 28, T-30-N, R-11-W, San Juan County, NM  
Field: Aztec Pictured Cliffs Elevation: 5879'GR
- II. Geology:  
 A. Surface Formation: Nacimientto  
     Sub-surface Formation Tops:  
     Ojo Alamo               785'               Pictured Cliffs               2192'  
     Kirtland               900'               Lewis                       2370'  
     Fruitland           1890'           Total Depth               2410'
- B. Logging Program: Induction Electric and Gamma Ray Density at TD.  
 C. Coring: none  
 D. Testing: none
- III. Drilling:  
 A. Anticipated Starting Date and Duration of the Project:  
     1979 Drilling Program - approximately 4 days to complete.  
 B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.
- IV. Materials:  
 A. Casing Program: 

<u>Hole Size</u>	<u>Depth</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>
12 1/4"	120'	8 5/8"	24.0# J-55
6 3/4"	2410'	2 7/8"	6.4# J-55

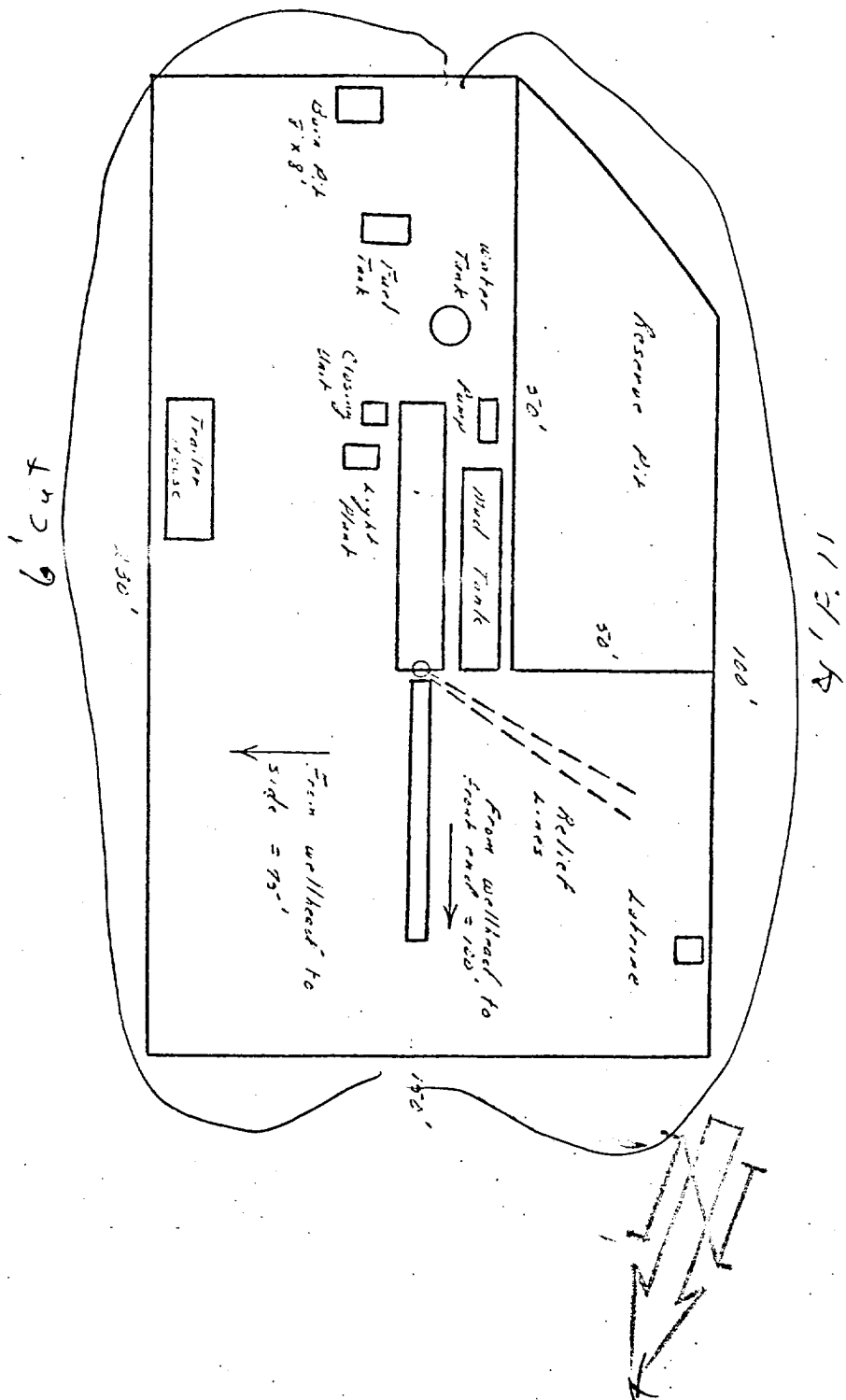
  
 B. Float Equipment: 8 5/8" surface casing - cement guide shoe.  
     2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.  
 C. Tubing: none  
 D. Wellhead Equipment: Hercules Wellhead Type CE (Fig.1-CE)
- V. Cementing:  
 8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.  
 2 7/8" production - precede cement with 5 bbls. water. Cement with 256 sks. of 65/35 Class "B" Poz with 6% gel and 8.3 gallons water per sack followed by 65 sks. 50/50 Class "B" Poz with 2% gel (496 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Spot 50 gallons of 7 1/2% acetic acid on top of plugs. Run temperature survey after 12 hours.

Typical Mud Drilled B.O.P. Installation  
for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated  
at 3000 psi Working Pressure

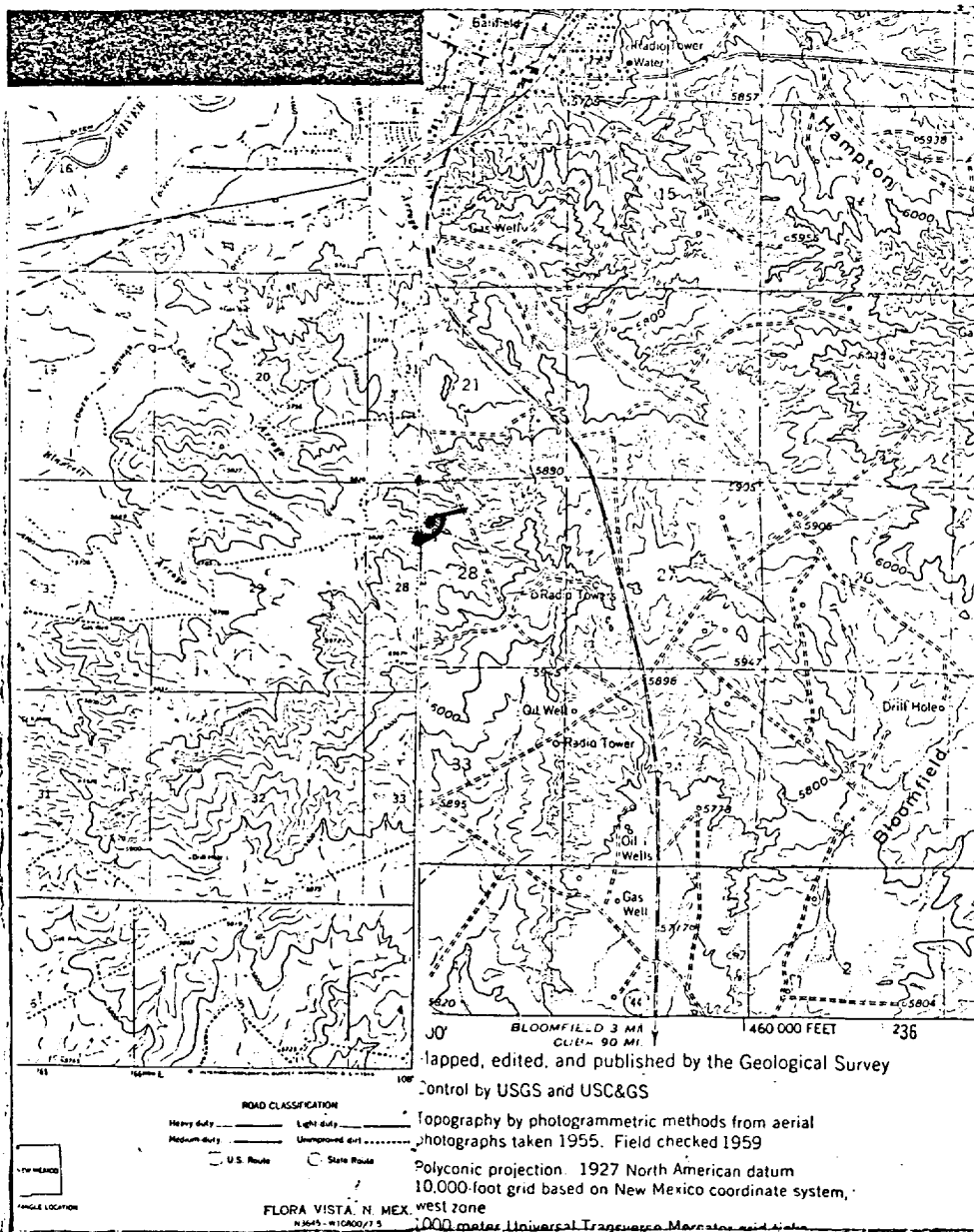
El Paso Natural Gas Company  
 Typical Location Pit for Pictured Cliffs Well



NW 28-30-11

T  
30  
N

T  
29  
N

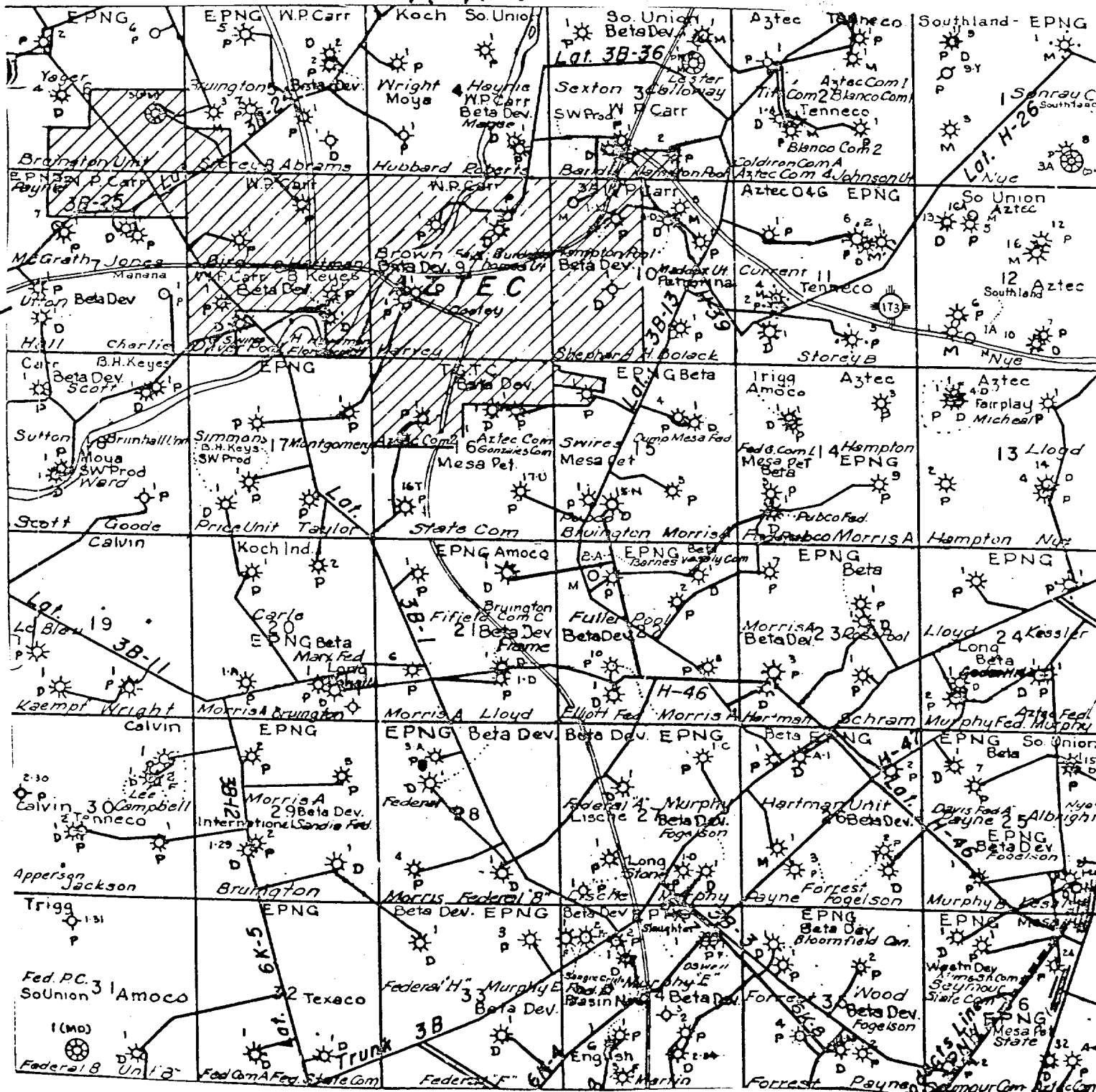


### LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS	_____
EXISTING PIPELINES	++ +
EXISTING ROAD & PIPELINE	+ + +
PROPOSED ROADS	_____
PROPOSED PIPELINES	+ + +
PROPOSED ROAD & PIPELINE	+ + +

NW 28-30-11

R-11-W



Proposed Location ●