Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-23689

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [x] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [x] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [x]

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
N 910'S, 1400'W
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
NM 010989

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Fields

9. WELL NO.
13

10. FIELD AND POOL, OR WILDCAT
Undes. Fruitland
Blanco Pic.Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec.28,T-32-N,R-11-W
NMPM

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8 miles north of Aztec, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
910'	2480'	160.00 and 160.00
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
1500'	3310'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6463'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.to circulate~~
~~7 7/8"~~	~~5 1/2"~~	~~17.0#~~	~~3310'~~	~~407 cu.ft.to cover Ojo Alamo~~

Selectively perforate and sandwater fracture the Pictured Cliffs and Fruitland formations.

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.

6

RECEIVED
AUG 31
OIL CON. COM.
DIST. 3

The SW/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 Peggy Bradfield TITLE Drilling Clerk DATE 7-26-79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok 5mk

NMOCC

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	FIELDS (NM 010989)	13

Unit Letter	Section	Township	Range	County
N	28	32N	11W	San Juan

Actual Footage Location of Well:
910 feet from the South line and 1400 feet from the West line

Ground Level Elev:	Producing Formation	Pool	Dedicated Acreage:
6463	Fruitland-Pictured Cliffs	Undesignated Fruitland Blanco Pictured Cliffs	160.00 & 160.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

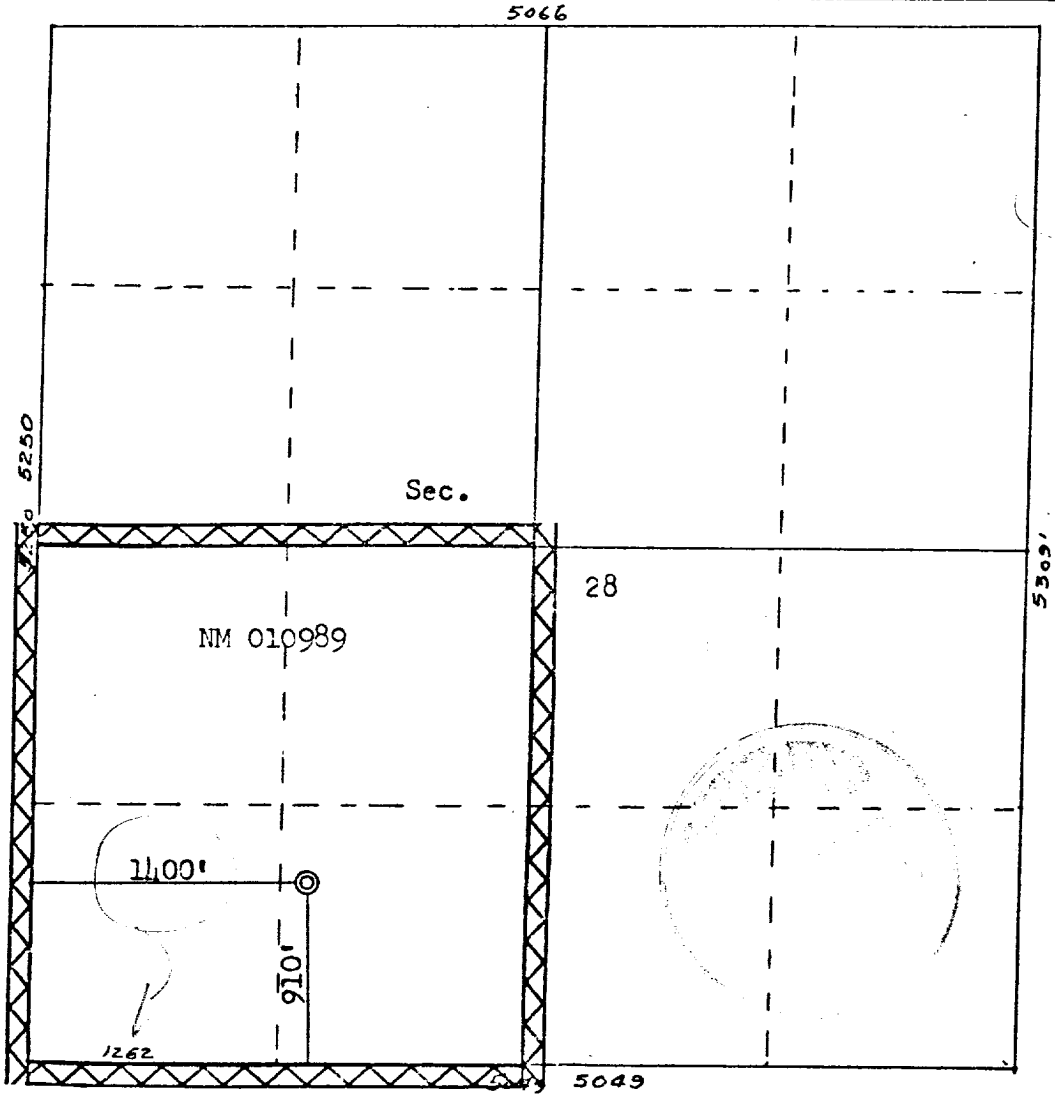
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 _____

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.

Company: July 26, 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: July 25, 1979

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

El Paso NATURAL GAS COMPANY

P. O. BOX 990
FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Fields #13

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 Map No. 2.

4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.

5. Location and Type of Water Supply - Water for the proposed project will be obtained from Kiffin Canyon Water Hole.

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 the attached Location Plat No. 1. 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'). A latrine, the location of which is also shown on Plat No. 1,

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 a rocky ridge with cedar, pinon, mormon tea and bitterbrush growing. 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

L. A. Aimes
Project Drilling Engineer

July 26, 1979

Operations Plan - Fields #13

I. Location: 910'S, 1400'W, Section 28, T-32-N, R-11-W, San Juan county, NM

Field: Blanco PC & Undes.Fruitland Elevation: 6463'GL

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1745'	Pictured Cliffs	3158'
Kirtland	1850'	Lewis	3268'
Fruitland	2710'	Total Depth	3310'

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 8 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:

Hole Size	Depth	Csg.Size	Wt.&Grade
12 1/4"	120'	8 5/8"	24.0# J-55
7 7/8"	3310'	5 1/2"	17.0# K-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe.

5 1/2" production casing - 10' shoe joint with notched collar for guide shoe and 5 1/2" insert float valve. Run one rigid centralizer on every other joint above the shoe for a total of 12 centralizers.

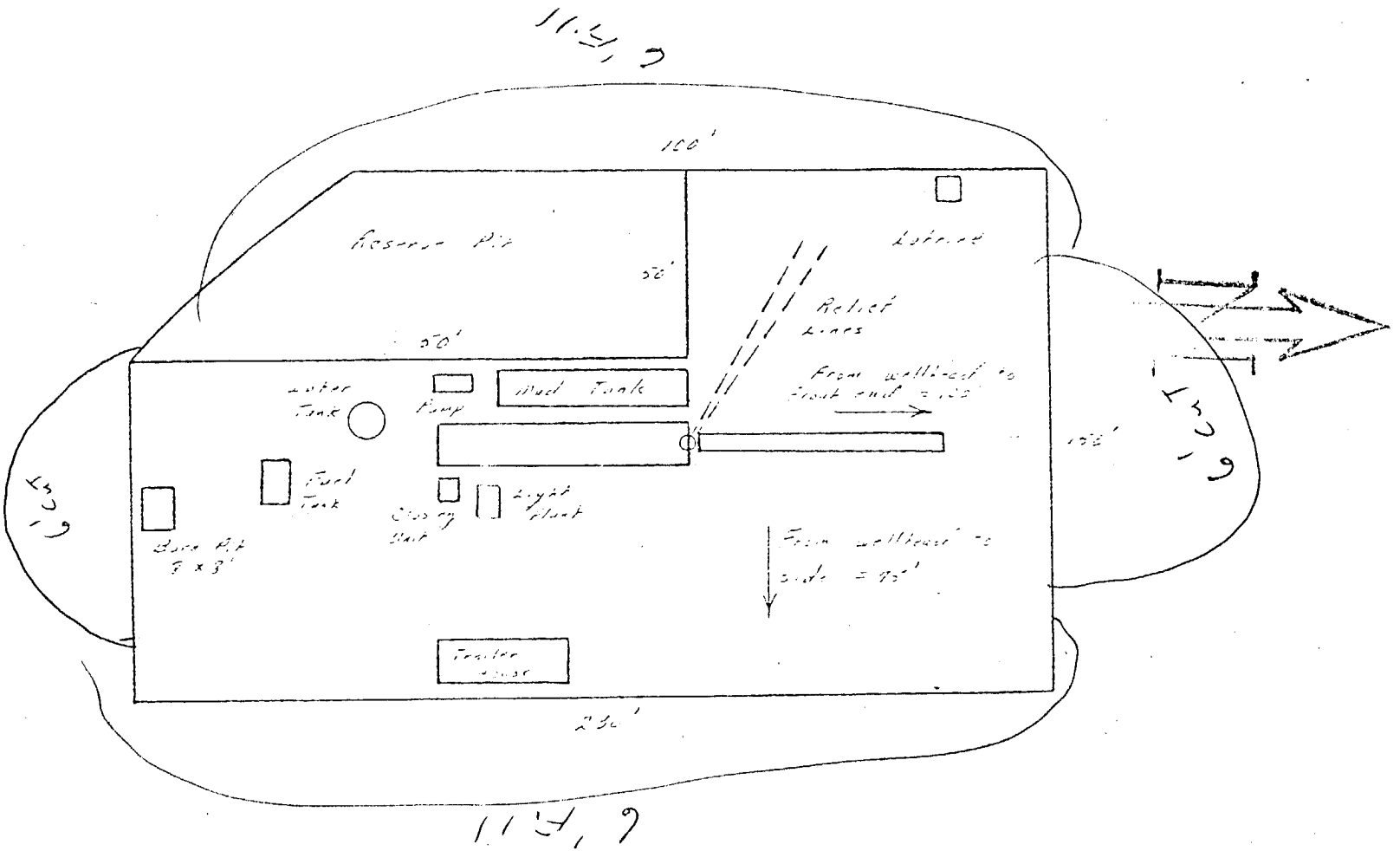
C. Tubing: 2 1/16" IJ tubing landed at 3310' Isolate producing zones with a packer.
1 1/4" IJ tubing landed at approximately 2950'.

D. Wellhead Equipment: Larkin wellhead with a Larkin type R-DS dual tubing hanger (2000 WOG)

V. Cementing:

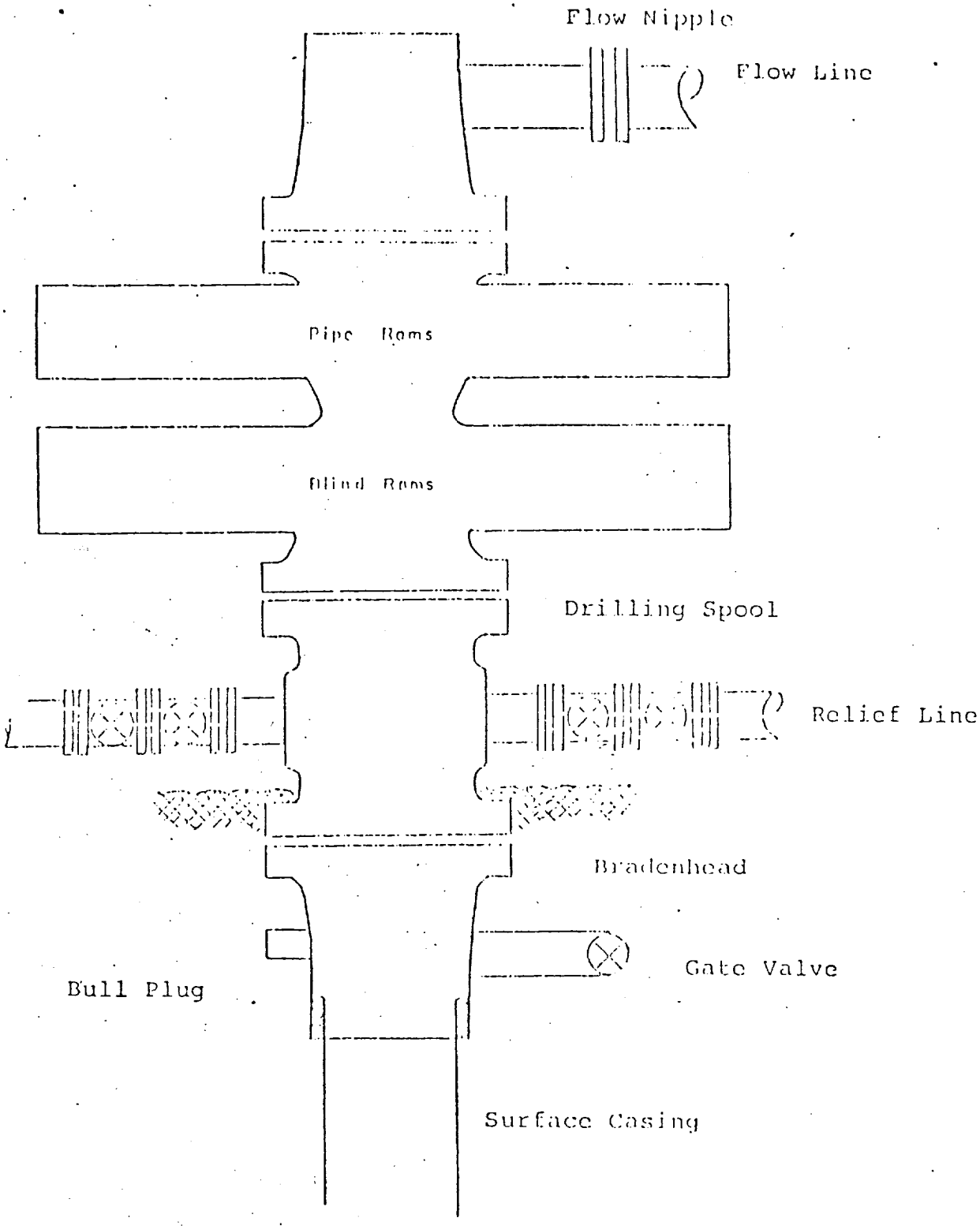
8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/ 30 minutes.
5 1/2" production - precede cement with 5 bbls. water. Cement with 175 sks. of 65/35 Class "B" Poz with 6% gel and 8.3 gallons water per sack followed by sks. 50/50 Class "B" Poz with 2% gel (407cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hours.

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



Scale: 1" = 25'

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



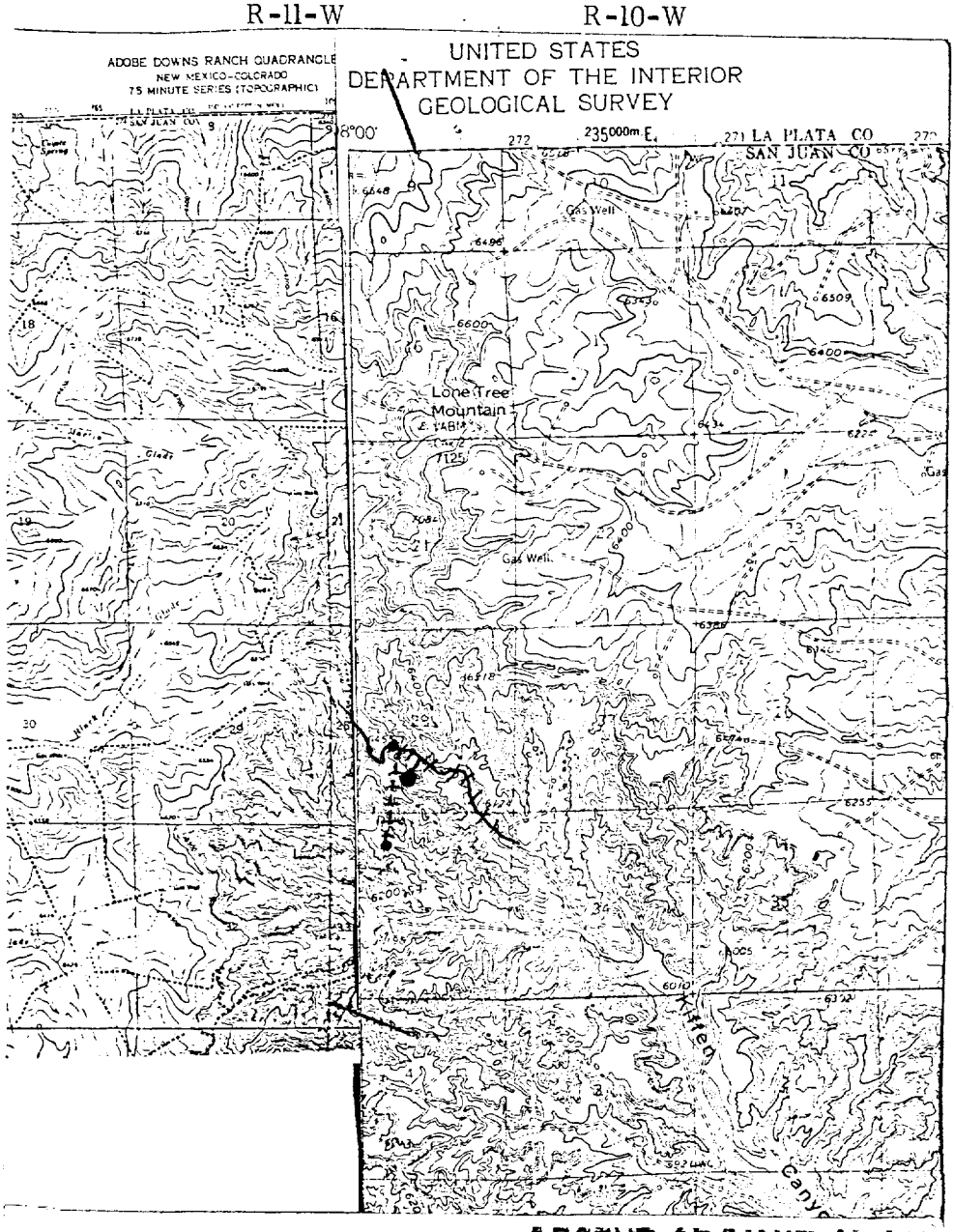
8" Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

El Paso Natural Gas Company
Fields #13
SW 28-32-11

R-11-W R-10-W

T 32 N

T 31 N

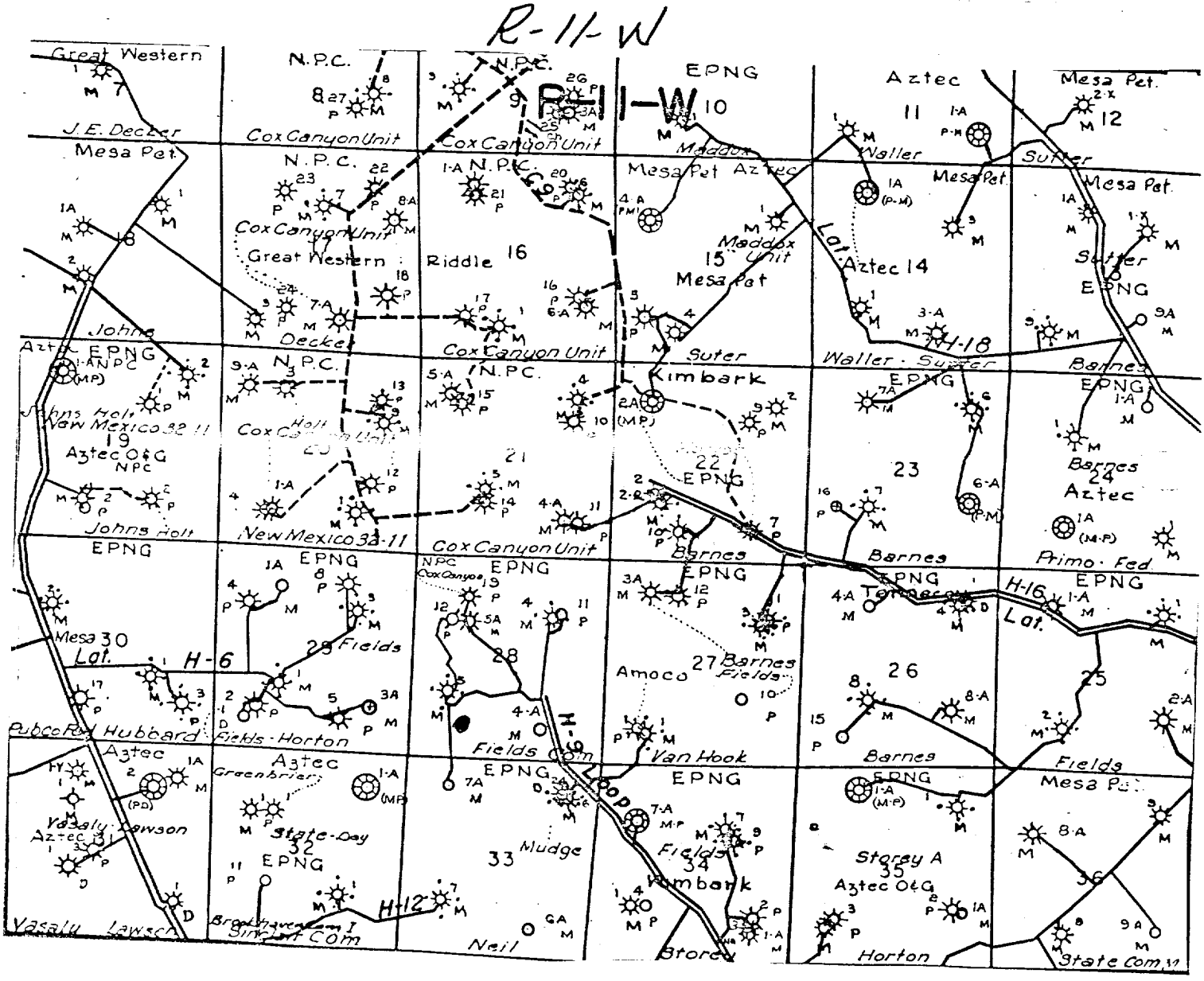


MAP 1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS
EXISTING PIPELINES
EXISTING ROAD & PIPELINE
PROPOSED ROADS
PROPOSED PIPELINES
PROPOSED ROAD & PIPELINE

El Paso Natural Gas Company
Fields #13
SW 28-32-11



MAP 2

Proposed Location ●