Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-24375

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 013860-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

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

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

8. FARM OR LEASE NAME: Russell

2. NAME OF OPERATOR: El Paso Natural Gas Company

9. WELL NO.: 12

3. ADDRESS OF OPERATOR: PO Box 289, Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: Undes. Pic.Cliffs
Undes. Chacra

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1695'N, 1120'E
H
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.24,T-28-N,R-8-W NMPM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 7 miles southwest of Navajo City, NM

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 945'

16. NO. OF ACRES IN LEASE: 1200

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160 & 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 500'

19. PROPOSED DEPTH: 3975'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6224'GR

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'	99 cu.ft.to circ.to surface
7 7/8"	5 1/2"	15.5#	3975'	558 cu.ft.to cover Ojo Alamo

Selectively perforate and sandwater fracture the Pictured Cliffs and Chacra 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 NE/4 of Section 24 is dedicated to this well.

RECEIVED
JUN - 4 1980
OIL CON. COM.
DIST. 3

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 April 24, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

APPROVED
AS AMENDED
JUN 1980
JAMES F. SIMS
DISTRICT ENGINEER

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	RUSSELL (NM-013860-A)	12

Unit Letter	Section	Township	Range	County
H	24	28N	8W	San Juan

Actual Footage Location of Well:
1695 feet from the North line and 1120 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6224	PICTURED CLIFFS-CHACRA	UNDESIGNATED PICTURED CLIFFS UNDESIGNATED CHACRA	160.00 & 160.00 Acres

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

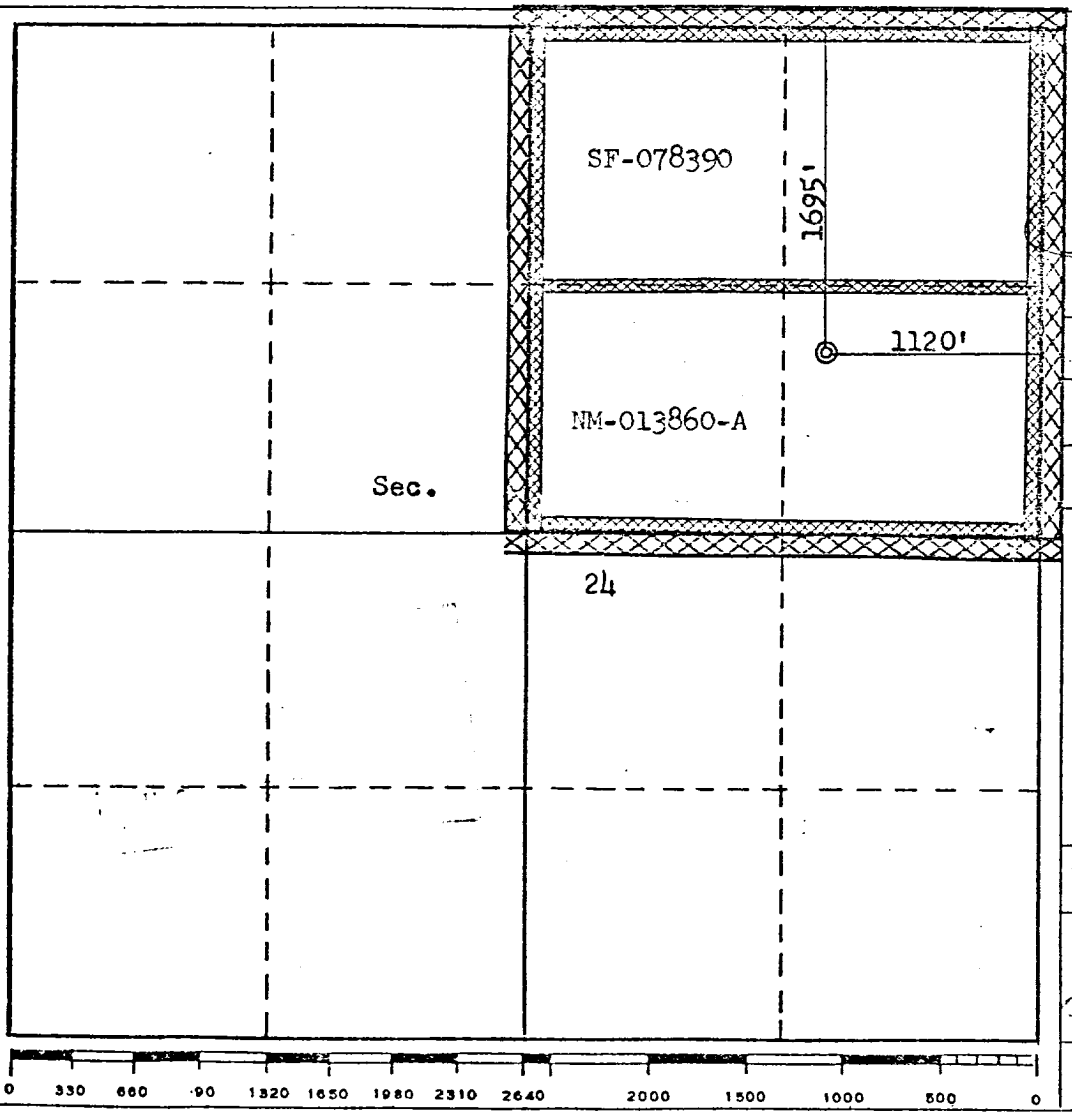
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Peggy Bradfield

Name: Drilling Clerk

Position: El Paso Natural Gas Co.

Company: April 24, 1980

Date

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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: March 18, 19[illegible]

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
STATE OF NEW MEXICO
FRED B. KERR, JR.

Certificate No. 3950

1695 N 1120 E

EL PASO NATURAL GAS COMPANY

P. O. Box [illegible]
Farmington, New Mexico 87401
Phone: [illegible]

Well Name Russell #12

Location NE 24 28-8

Formation PC

We, the undersigned, have inspected this location and road.

U. S. Forest Service — Date

Dabney Ford
Archaeologist — Date 4/14/80

Bureau of Indian Affairs Representative — Date

Bureau of Land Management Representative — Date 4/14/80

Barbara A. Conkin
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. — Date 4/14/80

REASON:

Seed Mixture: H

Equipment Color: BROWN

Road and Row: (Same) or (Separate)

Remarks:

C.C. to Dave Vilvin
Earl Mealer
John Ahim

El Paso EXPLORATION COMPANY

P. O. BOX 289
FARMINGTON, NEW MEXICO 87401
PHONE: 505-325-2841

Multi-Point Surface Use Plan
Russell #12

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 Ten Mile Water Hole #2.

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 rolling hills with sage, pinon and juniper 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.

Don Read

D. R. Read
Project Drilling Engineer

Operations Plan - Russell #12

I. Location: 1695'N, 1120'E, Section 24, T-28-N, R-8-W, San Juan County, NM

Field: Undes. PC & Undes. Chacra Elevation: 6224'GR

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1830'	Pictured Cliffs	2790'
Kirtland	1960'	Lewis	2910'
Fruitland	2570'	Chacra	3710'
		Total Depth	3975'

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:

1980 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:

Hole Size	Depth	Csg.Size	Wt.&Grade
12 1/4"	120'	8 5/8"	24.0# J-55
7 7/8"	3975'	5 1/2"	15.5# K-55

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

5 1/2" production casing - run cement guide shoe on bottom of a 6' shoe joint. Run a self-fill insert float valve on top of the shoe joint. Run 8 - 5 1/2" x 7 7/8" centralizers, one on each joint beginning with the shoe joint.

C. Tubing: 2790' of 1 1/4" IJ 2.3#, J-55 tubing. 3975' of 1 1/2", EUE 2.9# J-55 tubing. Isolate producing zones with a packer

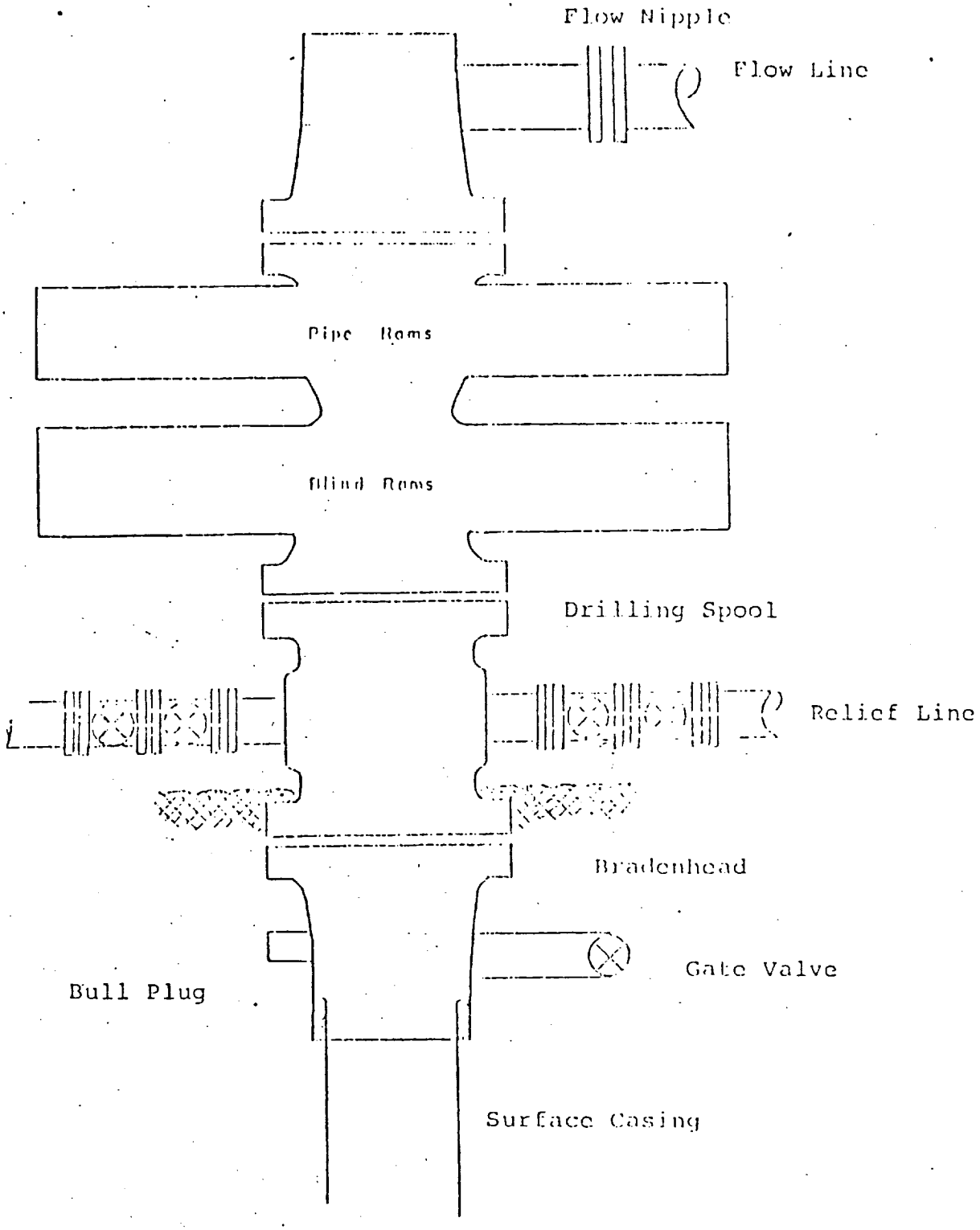
D. Wellhead Equipment: 8 5/8" x 5 1/2" 2000 psi dual wellhead. Wellhead representative to set all slips.

V. Cementing:

8 5/8" surface casing - 84 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (99 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing, wellhead, and BOP to 600#/30 minu.

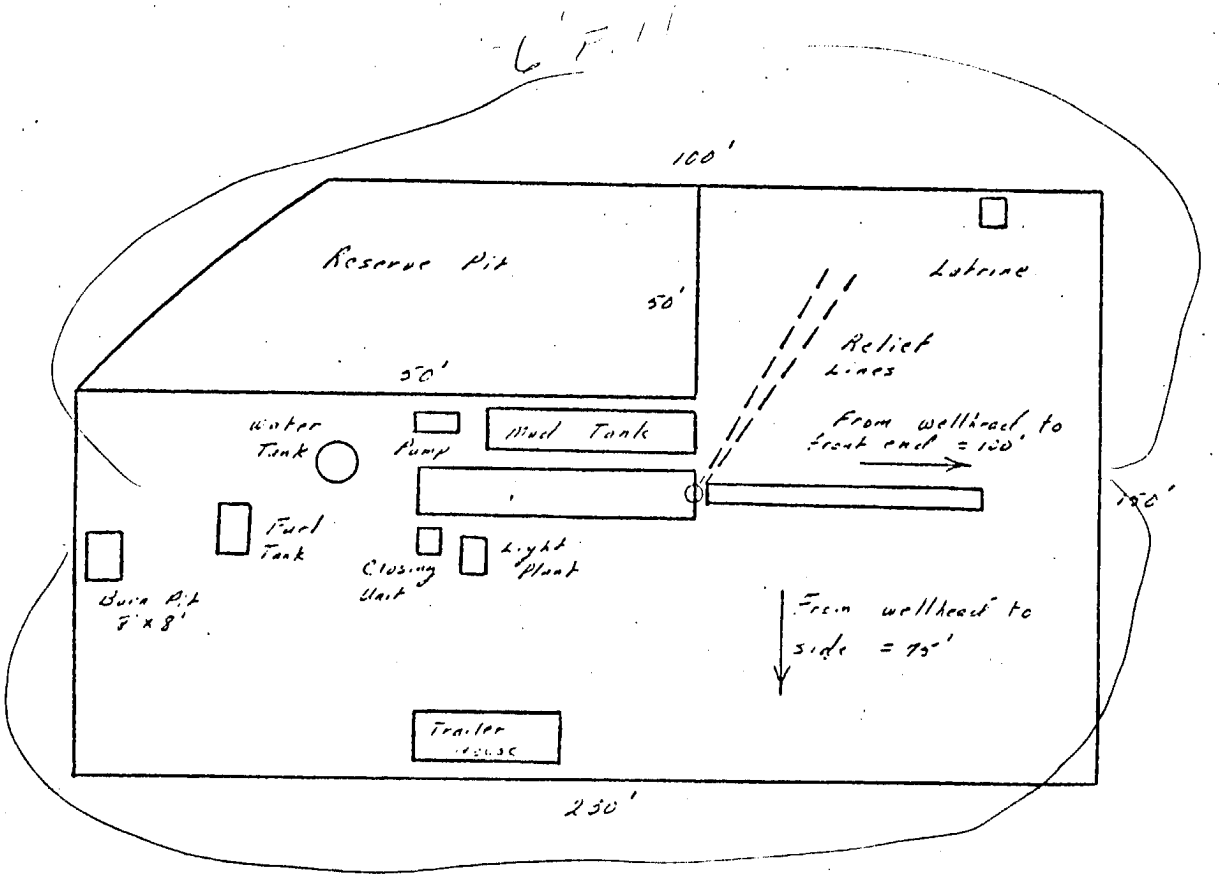
5 1/2" production casing - precede cement with 5 bbls. water. Cement with 280 sks. 65/35 Class "B" Poz with 6% gel , 2% calcium chooride and 8.3 gal. water/sk. followed by 105 sks. 50/50 Class "B" Poz with 2% gel,(558 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temp. survey after 12 hours.

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



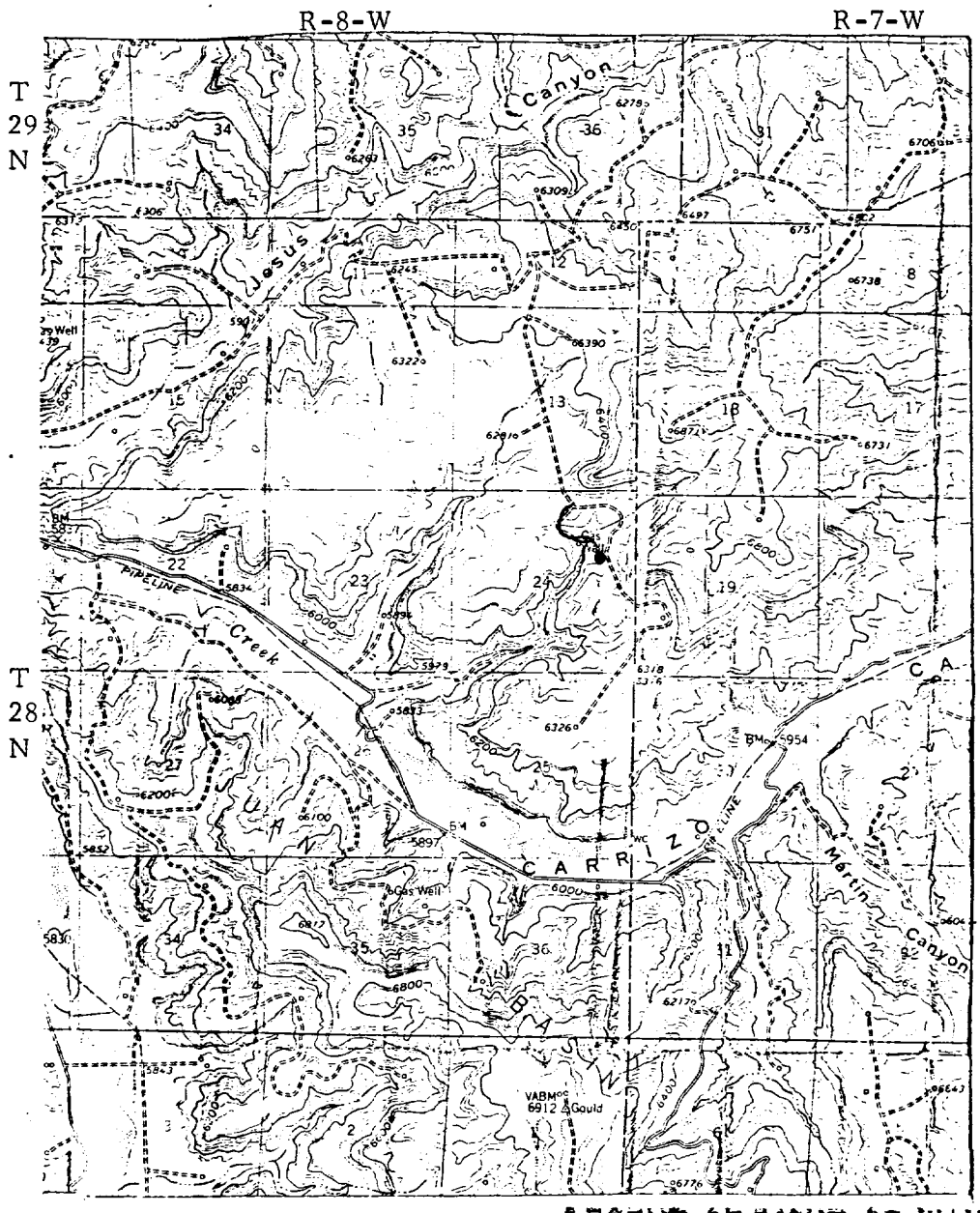
8" Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

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



Scale: 1" = 20'

EL PASO NATURAL GAS COMPANY
Russell #12 (PC)
NE 24-28-8

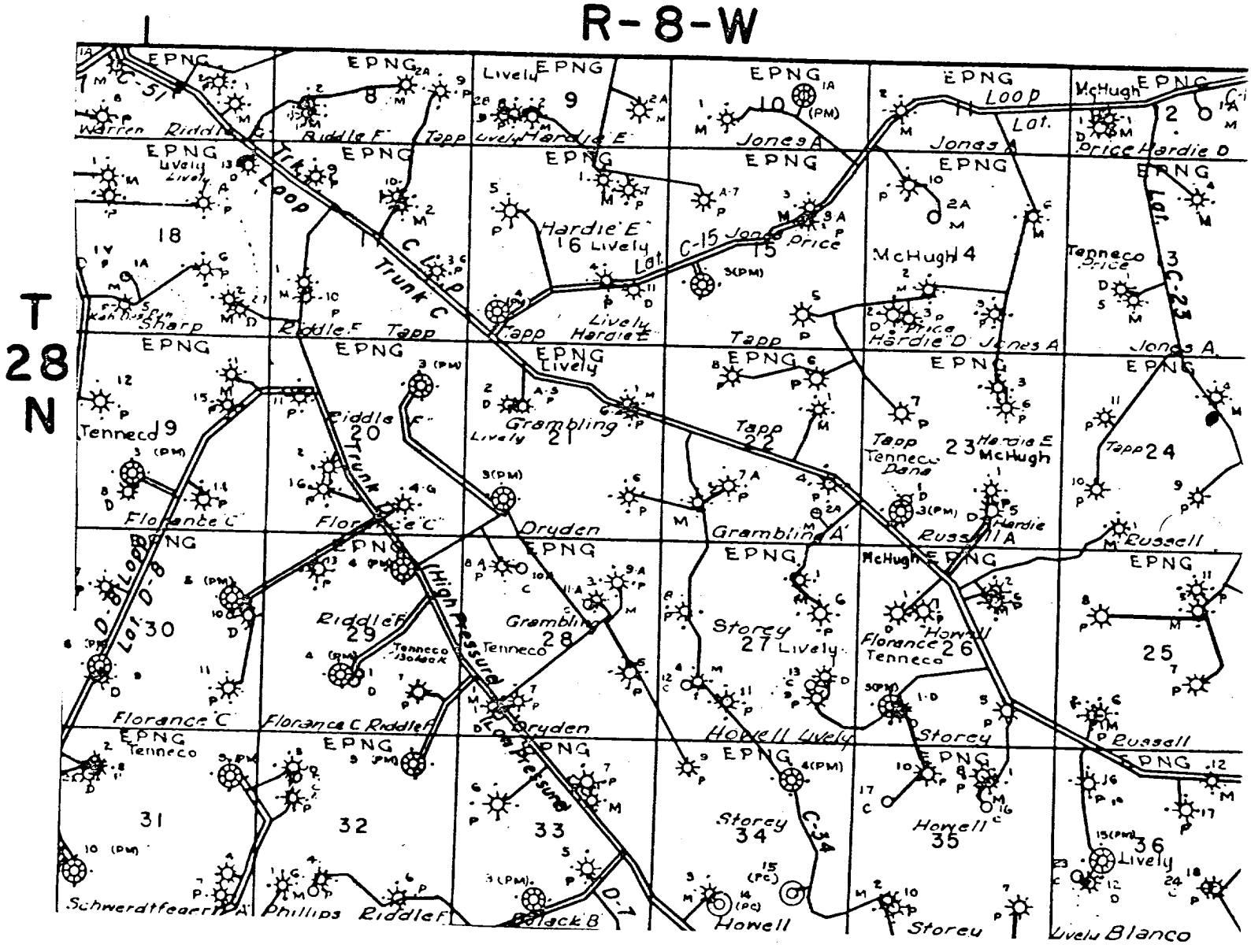


MAP #1

LEGEND OF RIGHT-OF-WAYS

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

EL PASO NATURAL GAS COMPANY
Russell #12 (PC)
NE 24-28-8



Map #2

Proposed Location ●