Form 9-331 C
(May 1963)

Amended

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.
30-039-21629

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 [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: El Paso Natural Gas Company

3. ADDRESS OF OPERATOR: PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1140'S, 970'W
M
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: SF 079160

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Rincon Unit

8. FARM OR LEASE NAME: Rincon Unit

9. WELL NO.: 231

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.12,T-26-N,R-7-W NMPM

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

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 24 miles Southeast of Blanco, 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
150	Unit	W/320.00
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**
970	7300'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6516'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
13 3/4"	9 5/8"	32.3#	200'	224 cu.ft. to circulate
8 3/4" & 7 7/8"	4 1/2"	10.5#&11.6#	7300'	1186 cu.ft. - 3 stages

Stage #1 - 395 cu.ft. to cover Gallup formation.
Stage #2 - 425 cu.ft. to cover Mesa Verde formation.
Stage #3 - 426 cu.ft. to cover Ojo Alamo formation.

Selectively perforate and sandwater fracture the Dakota 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 W/2 of Section 12 is dedicated to this well.

RECEIVED
FEB 3 1978
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

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 A. G. Gusso TITLE Drilling Clerk DATE 2-1-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Ad

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FEB 7 1978
OIL CON. COM.
DIST. 3

*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	Rincon Unit (SF-079160)	231

Unit Letter	Section	Township	Range	County
M	12	26N	7W	Rio Arriba

Actual Footage Location of Well:
1140 feet from the South line and 970 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6516	Dakota	Basin Dakota	320.00 Acres

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

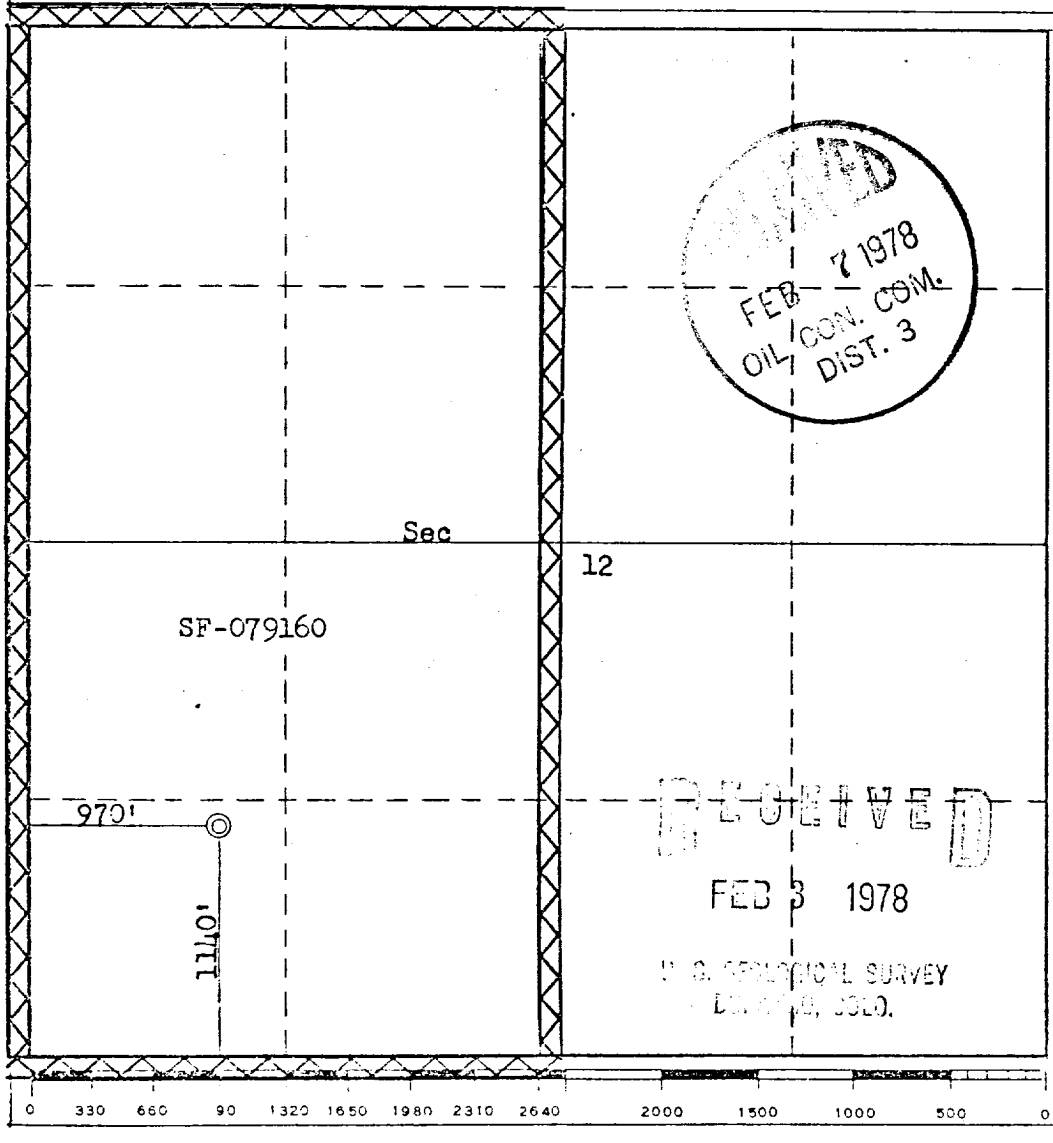
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Unitization

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.

A. G. Lucas

Name: Drilling Clerk

Position: El Paso Natural Gas Co.

Company: February 1, 1978

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: November 27, 1977

Registered Professional Engineer and/or 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

Rincon Unit #231

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 a water hole located at Gould Pass Water Well.

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 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 #1 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 gray (Federal Standard #595-36357)

11. Other Information - The terrain is rolling hills and sage brush flats. Cattle graze the proposed project site.

12. Operator's Representative - W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401

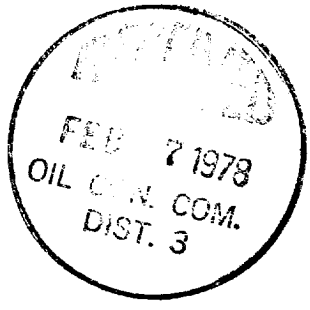
13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that 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.

February 1, 1978

Don L Walker

D. C. Walker
Project Drilling Engineer

DCW:pb



February 1, 1978

Operations Plan - Rincon Unit #231

I. Location: 1140'S, 970'W, Section 12, T-26-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 6516'GR

II. Geology:

A. Formation Tops:

Surface	San Jose	Menefee	4445'
Ojo Alamo	2020'	Point Lookout	5027'
Kirtland	2187'	Gallup	6087'
Fruitland	2554'	Greenhorn	6929'
Pic.Cliffs	2755'	Graneros	6988'
Lewis	2825'	Dakota	7084'
Mesa Verde	4404'	Total Depth	7300'

B. Logging Program: GR-Ind. and GR-Density at total depth.

C. Coring Program: none

D. Natural Gauges: none

III. Drilling:

A. Mud Program: mud from surface to total depth.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Csg.Size	Wt.&Grade
13 3/4"	200'	9 5/8"	32.3# H-40
8 3/4"	5327'	4 1/2"	10.5# K-55
7 7/8"	6500'	4 1/2"	10.5# KS
7 7/8"	7300'	4 1/2"	11.6# KS

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part No. 2006-1-010)

4 1/2" production casing - Baker guide shoe (Prod. #102-01) and 4 1/2" self-fill insert valve (Prod. No. 177-13), two Baker multiple stage cementers (Prod. No. 200-03) equipped for three stage cementing. Set tool for second stage at 5327' and third stage at 2925'. Run 25 Baker centralizers (Prod. No. 244-53) spaced as follows: one on each of the bottom 13 joints, one below and five above each stage tool spaced every other joint.

C. Tubing: 7300' of 2 3/8", 4.7#, J-55 ird tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.

D. Wellhead Equipment: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

V. Cementing:

Surface casing (13 3/4" x 9 5/8") - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 2% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to the surface). WOC 12 hours. Test casing to 600 psi/30 minutes.

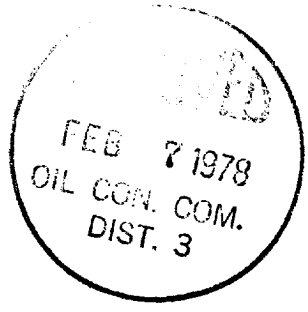
Production casing -

First stage (7 7/8" x 4 1/2") - use 135 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride. Mix with 8.3 gallons of water per sack for a slurry weight of 12.88 ppg, followed by 100 sks. of 50/50 Class "B" Pozmix, 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (345 cu.ft. of slurry, 25% excess to cover Gallup).

Second stage (8 3/4" x 4 1/2") - circulate hole for two hours. Cement with 262 sks. of 65/35 Class "B" with 6% gel and 2% calcium chloride mixed with 8.3 gallons of water per sack (425 cu.ft. of slurry, 50% excess to cover the Mesa Verde).

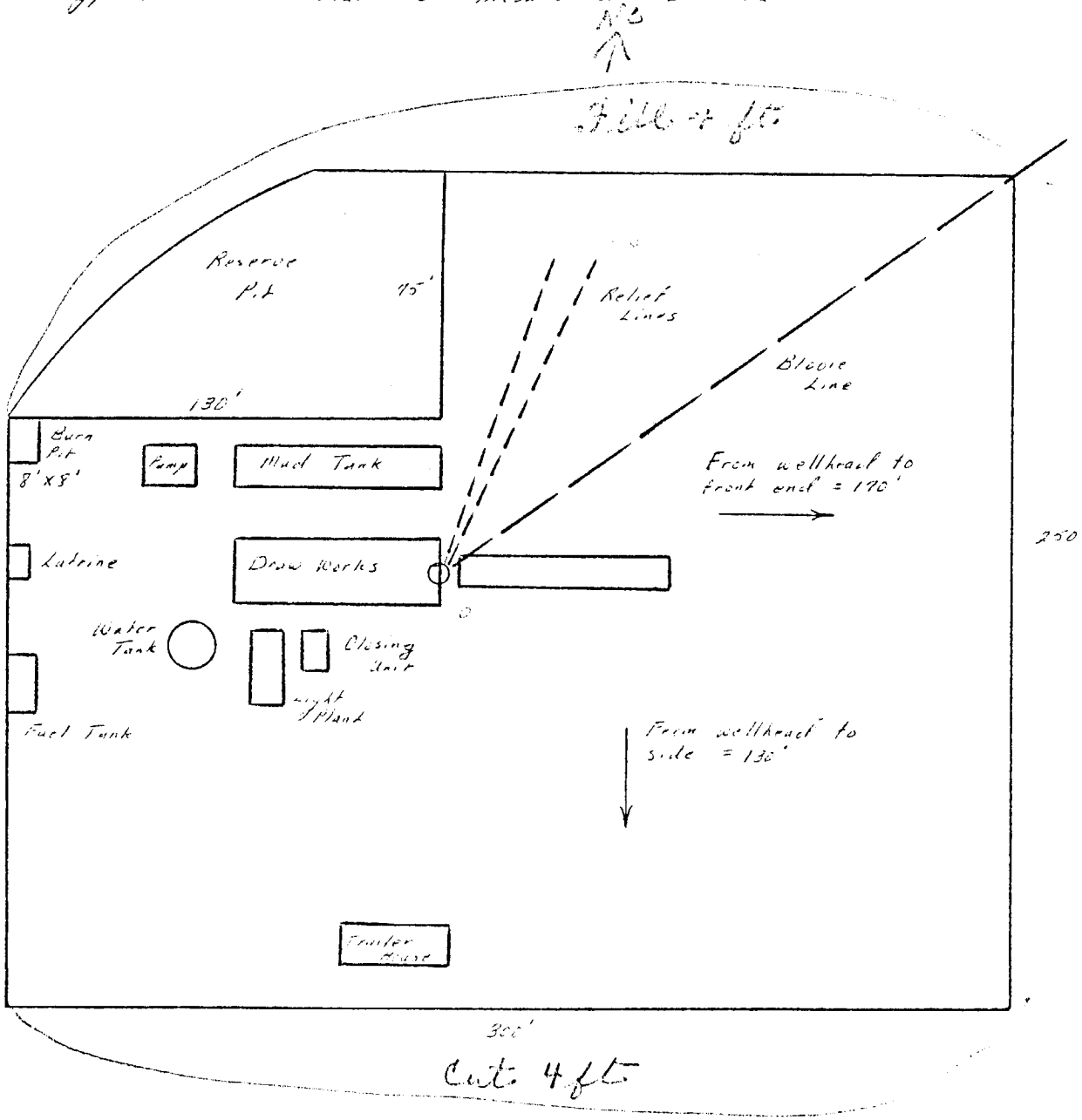
Third stage - circulate for two hours. Cement with 257 sks. of 65/35 Poz with 6% gel and 2% calcium chloride (416 cu.ft. of slurry, 50% excess to cover Ojo Alamo). WOC 18 hours. Run temperature survey after 8 hours.

DRR:pb

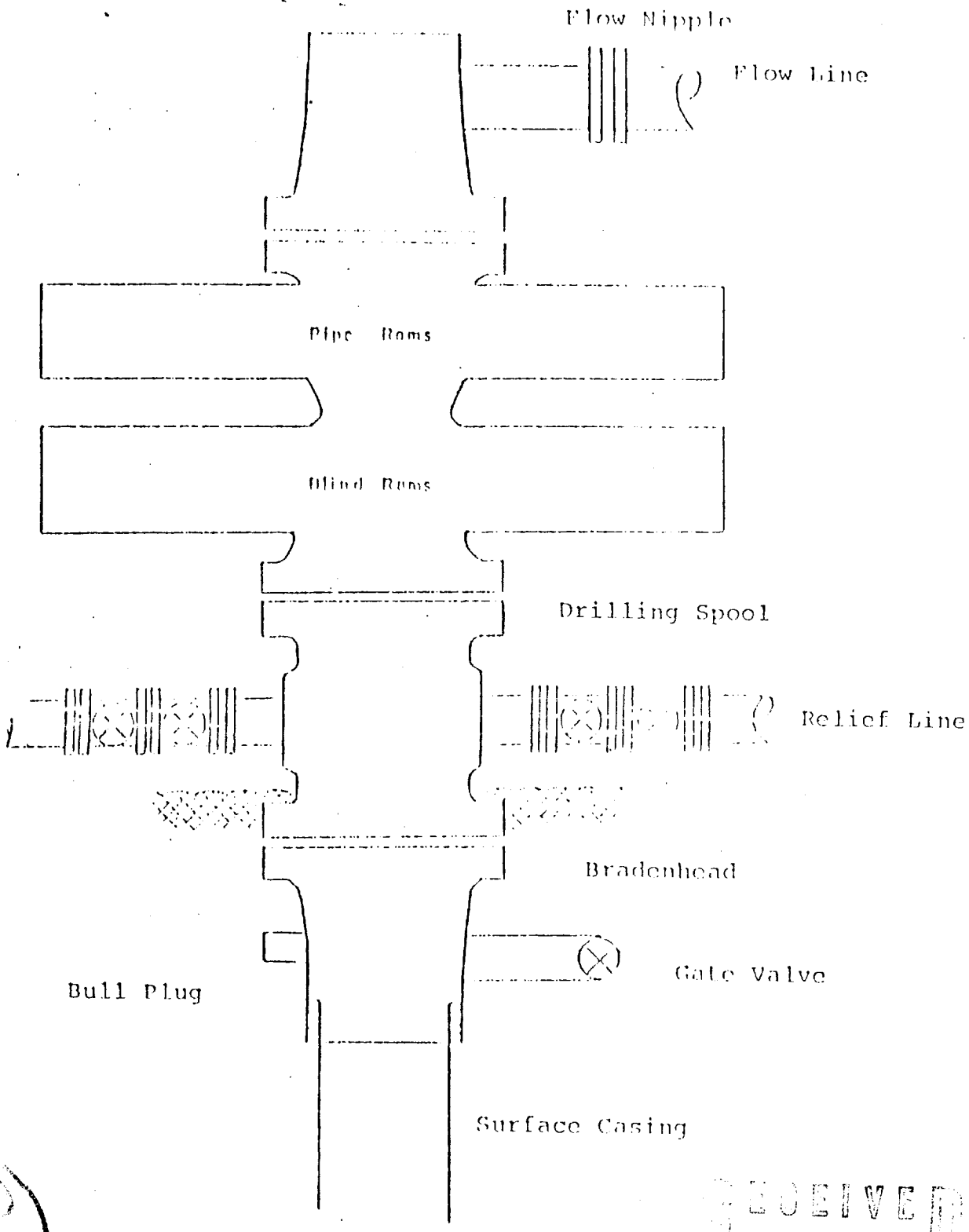


El Paso Natural Gas Company

Typical Location Plat for Mesa Verde and Dakota Wells



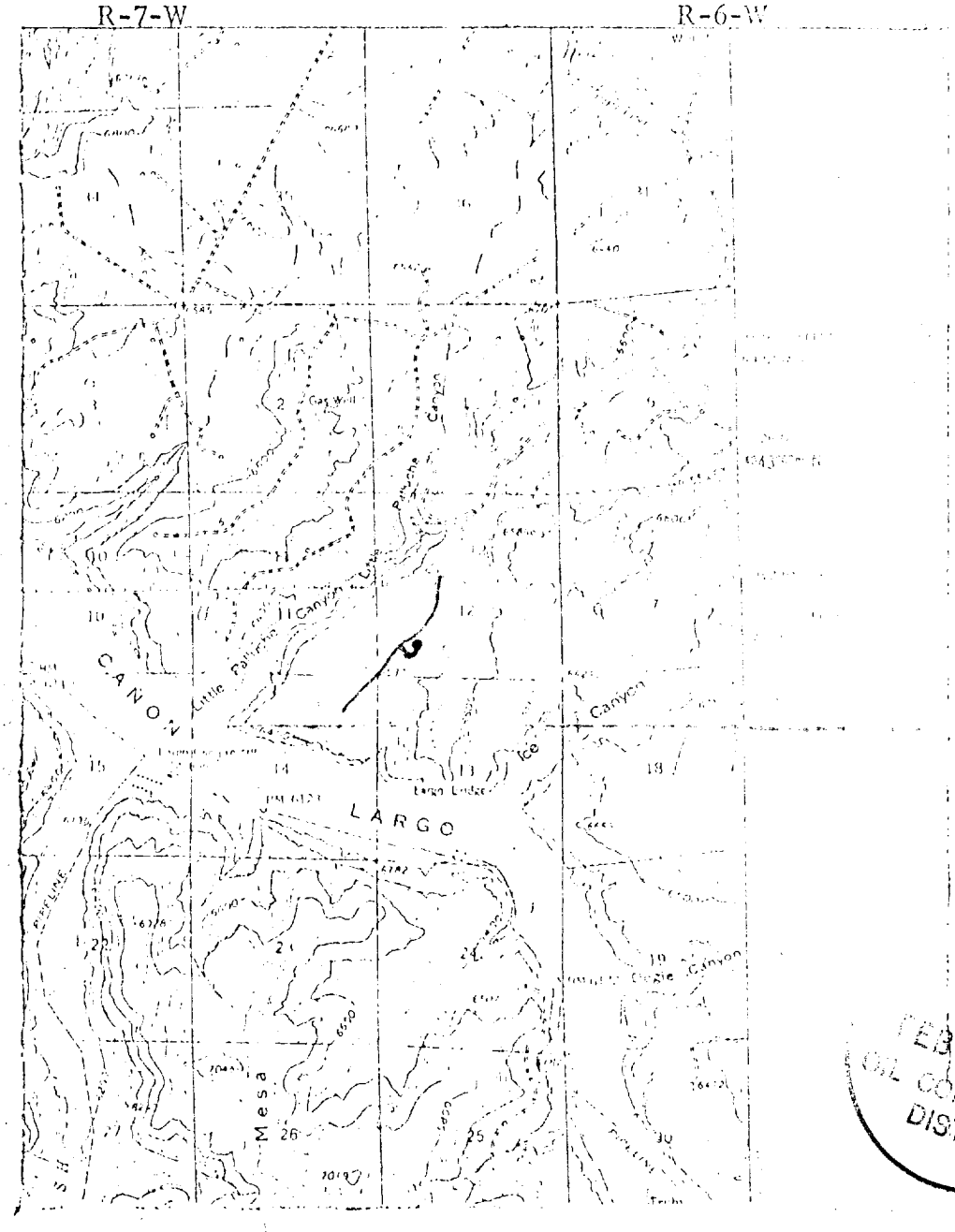
Typical B.O.P. Installation
for Dakota Well



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

When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

EL PASO NATURAL GAS COMPANY
Rincon Unit #231
SESW 12 26-7

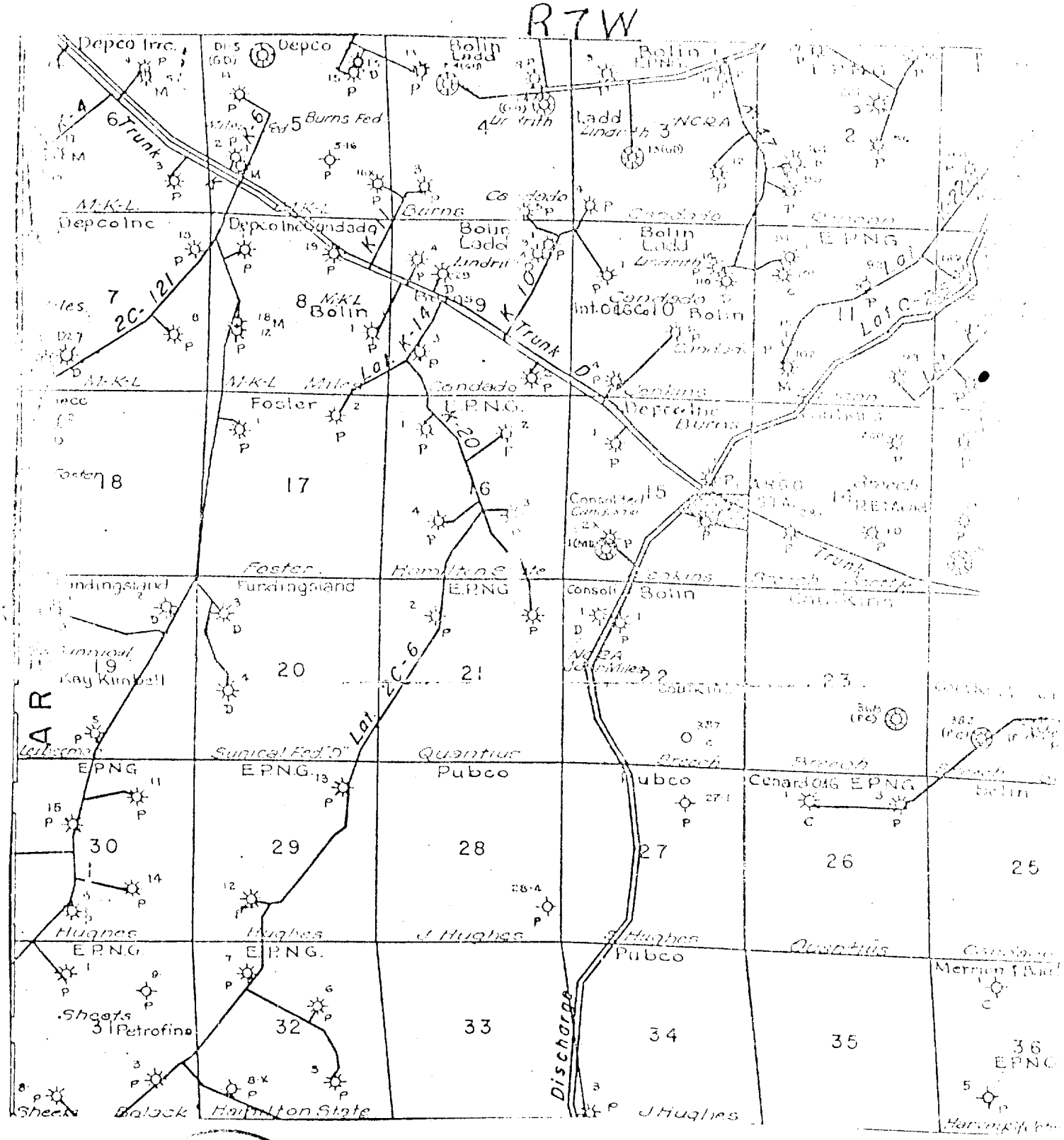


MAP #1

LEGEND OF RIGHT-OF-WAYS

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

EL PASO NATURAL GAS COMPANY
Rincon Unit #231
SESW 1-26-7



MAP #2

Proposed Location ●