Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-039-21603

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [Z] 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
1590'S, 2040'W
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
SF 079265

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Klein

9. WELL NO.
27

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec.35,T-26-N,R-6-W
NMPM

12. COUNTY OR PARISH 13. STATE
Rio Arriba NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
approximately 16 miles North of Counselors, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1590'

16. NO. OF ACRES IN LEASE
2242.48

17. NO. OF ACRES ASSIGNED TO THIS WELL
S/320.00

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1005'

19. PROPOSED DEPTH
7140'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6331'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
13 3/4"	9 5/8"	32.3#	200'	224 cu.ft. to circulate
8 3/4"	4 1/2"	10.5#	5124'	
7 7/8"	4 1/2"	10.5#-11.6#	7140'	1066 cu.ft.-3 stages

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 S/2 of Section 35 is dedicated to this well.

RECEIVED
DEC 30 1977
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 December 28, 1977

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JAN 3 1977

Okd

*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	KLEIN (SF-079265)	27

Unit Letter	Section	Township	Range	County
K	35	26-N	6-W	RIO ARRIBA

Actual Footage Location of Well:
1590 feet from the SOUTH line and 2040 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6331	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.

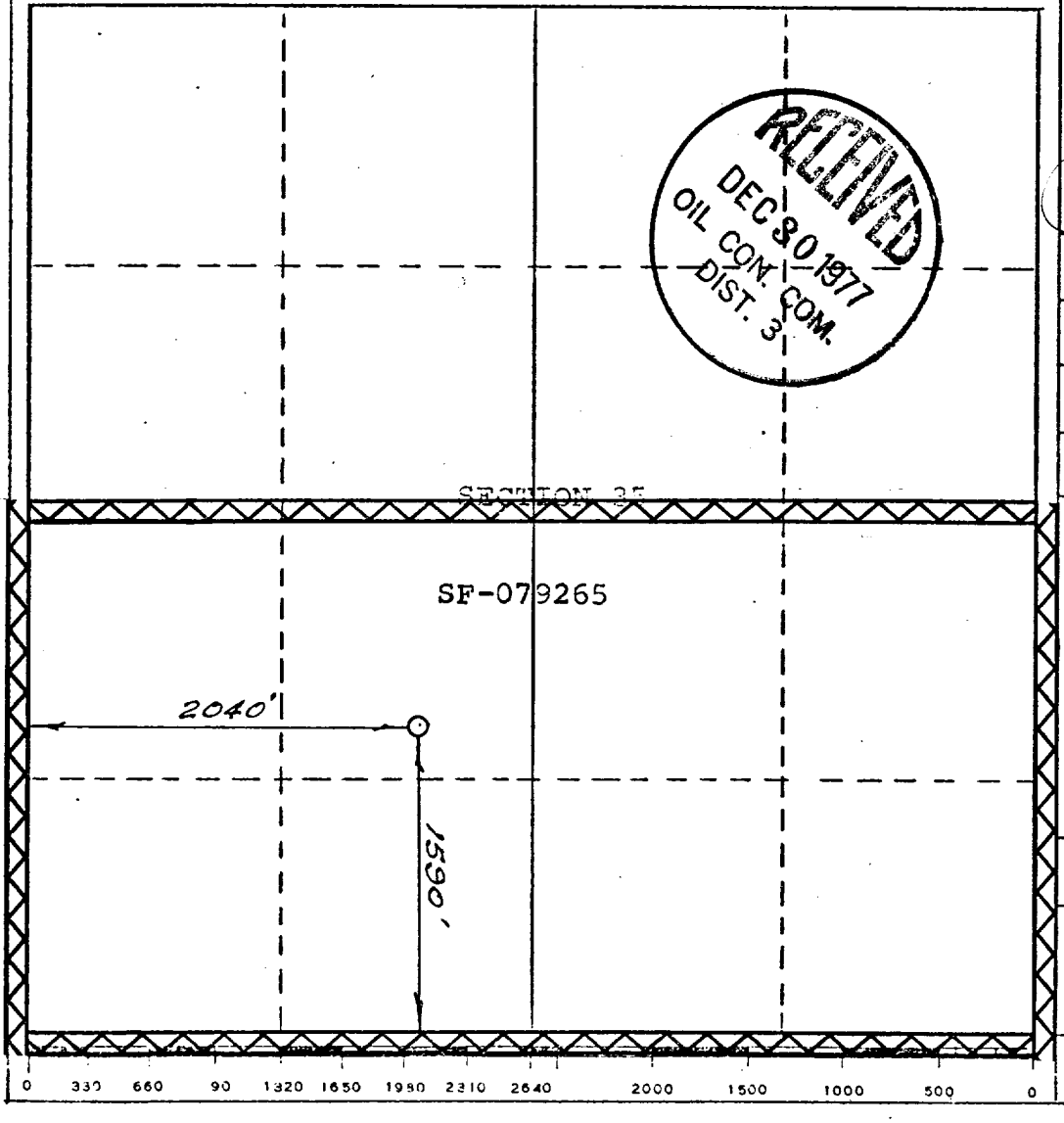
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 _____

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: December 27, 1977

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: JANUARY 16, 1975

Registered Professional Engineer and/or Land Surveyor

Certificate No. 1760

El Paso NATURAL GAS COMPANY

P. O. BOX 990
FARMINGTON, NEW MEXICO 87401
PHONE: 505-325-2841

Multi-Point Surface Use Plan
Klein #27

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. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads a new proposed access roads. All known produc facilities are shown on these two maps.

5. Location and Type of Water Supply - Water for the proposed proj will be obtained from a water hole located at Tapacito 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 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 #2 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 Federal Standard #595-30318.

11. Other Information - The terrain is rolling hills and sandstone ledges with sage brush. 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.

December 28, 1977

D. R. Read
Division Drilling Engineer

DRR:pb

December 28, 1977

Drilling Operations - Klein #27

I. Location: 1590'S, 2040'W, Section 35, T-26-N, R-6-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 6331'GL

II. Geology:

A. Formation Tops:

Ojo Alamo	1834'	Point Lookout	4754'
Kirtland	2064'	Gallup	5919'
Fruitland	2364'	Greenhorn	6692'
Pic.Cliffs	2519'	Graneros	6746'
Lewis	2424'	Dakota	6898'
Mesa Verde	4199'	Total Depth	7140'

B. Logging Program: IES 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	Casing Size	Wt.&Grade
13 3/4"	200'	9 5/8"	32.3# H-40
8 3/4"	5124'	4 1/2"	10.5# K-55
7 7/8"	6500'	4 1/2"	10.5# K-55
	7140'	4 1/2"	11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig.102)

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" production casing - cement guide shoe and self-fill up float valve with multiple stage cementers equipped for 3 stage cementing. One centralizer on each bottom 8 joints, one below each stage tool and five above spaced every other joint.

C. Tubing: 7140' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.

D. Wellhead Equipment: 10" 900 x 9 5/8" casing head, 10" 900 x 6" 900 xmas tree assembly.

Operations Plan -

V. Cementing:

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

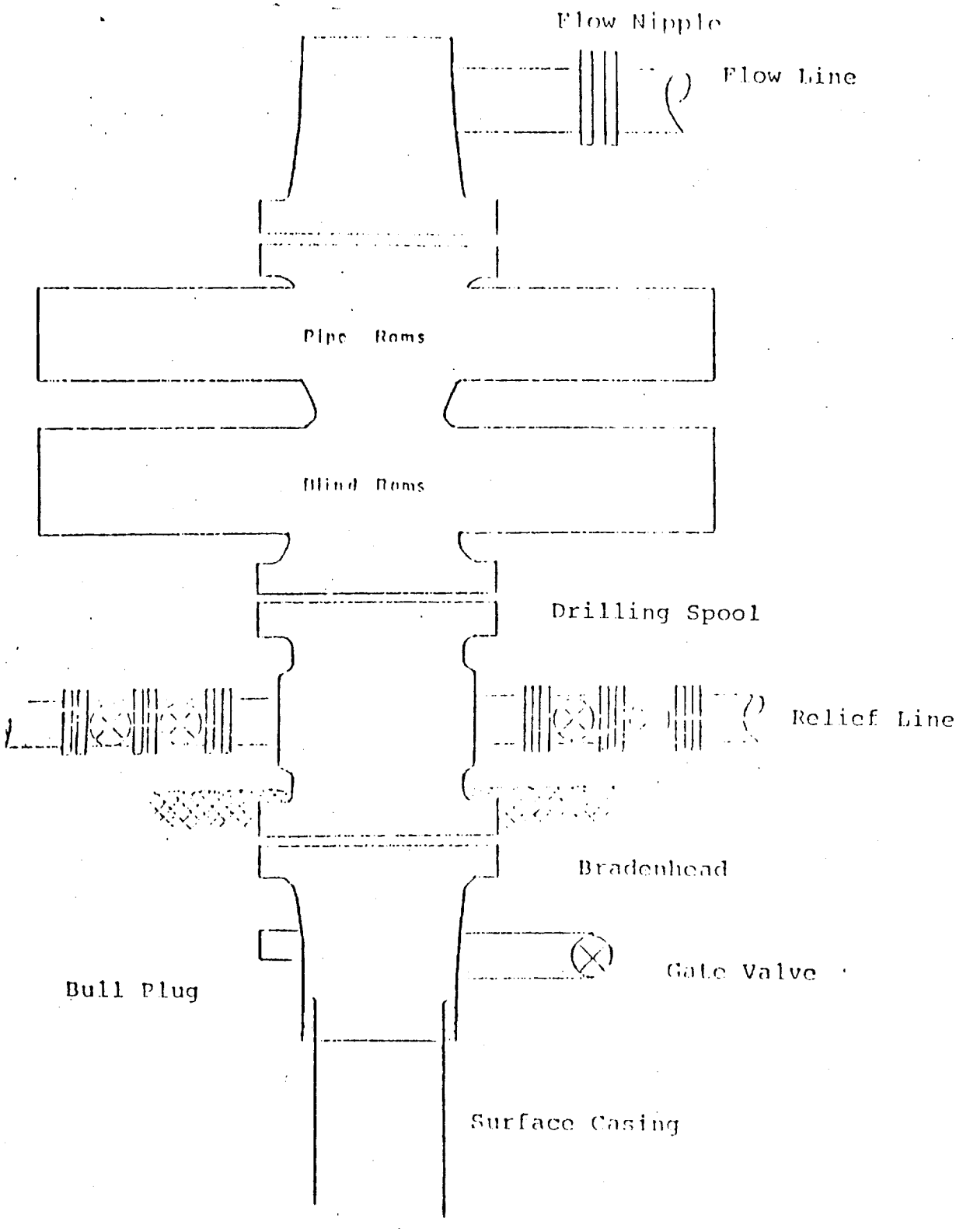
4 1/2" production casing -

1st stage (4 1/2" x 7 7/8") - use 132 sks. 65/35 Class "B" pozmix with 6% gel and 2% calcium chloride, followed by 100 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (348 cu.ft. of slurry, 25% excess to cover the Gallup).

2nd stage (4 1/2" x 8 3/4") - use 234 sks. 65/35 Class "B" pozmix with 6% gel and 2% calcium chloride (380 cu.ft. of slurry, 50% excess to cover the Mesa Verde from 100' into the Mancos shale).

3rd stage (4 1/2" x 8 3/4") - use 208 sks. 65/35 Class "B" pozmix with 6% gel and 2% calcium chloride (337 cu.ft. of slurry, 60% excess to cover the Ojo Alamo from 100' into the Lewis shale).

Typical B.O.P. Installation
for Dakota Well

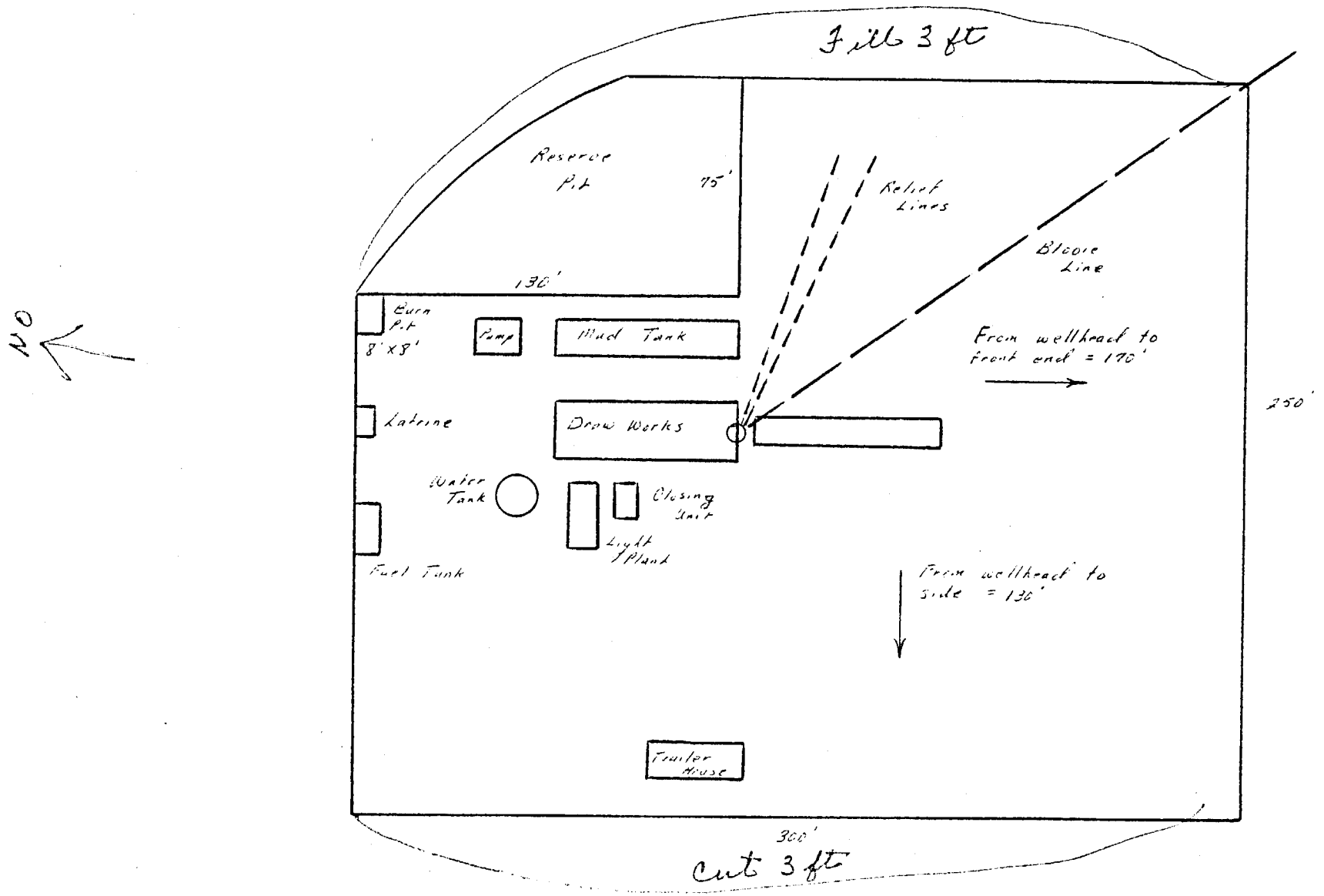


Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

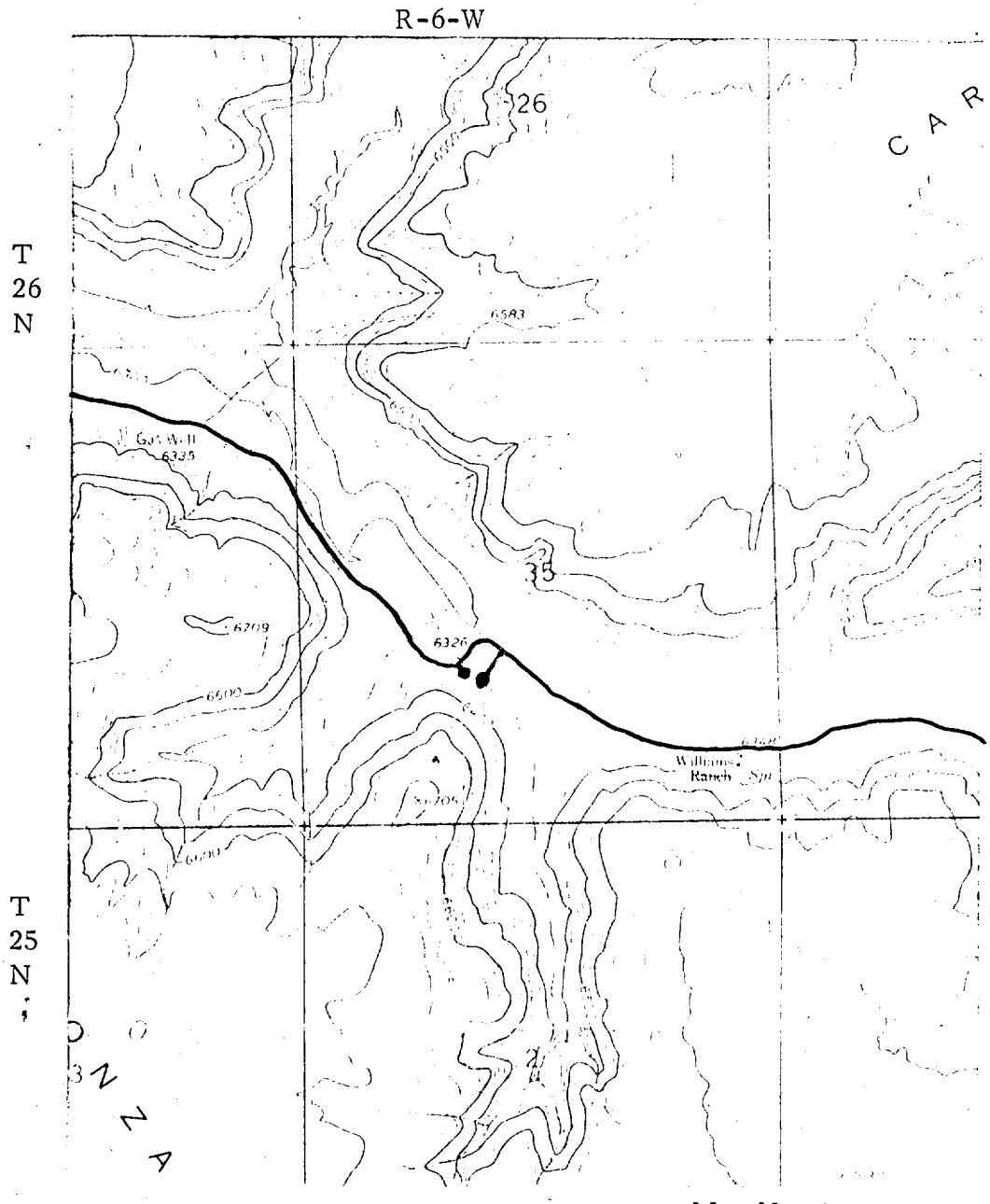
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

El Paso Natural Gas Company

Typical Location Plat for Mesa Verde and Dakota Wells



SW 35-26-6



Map No. 1

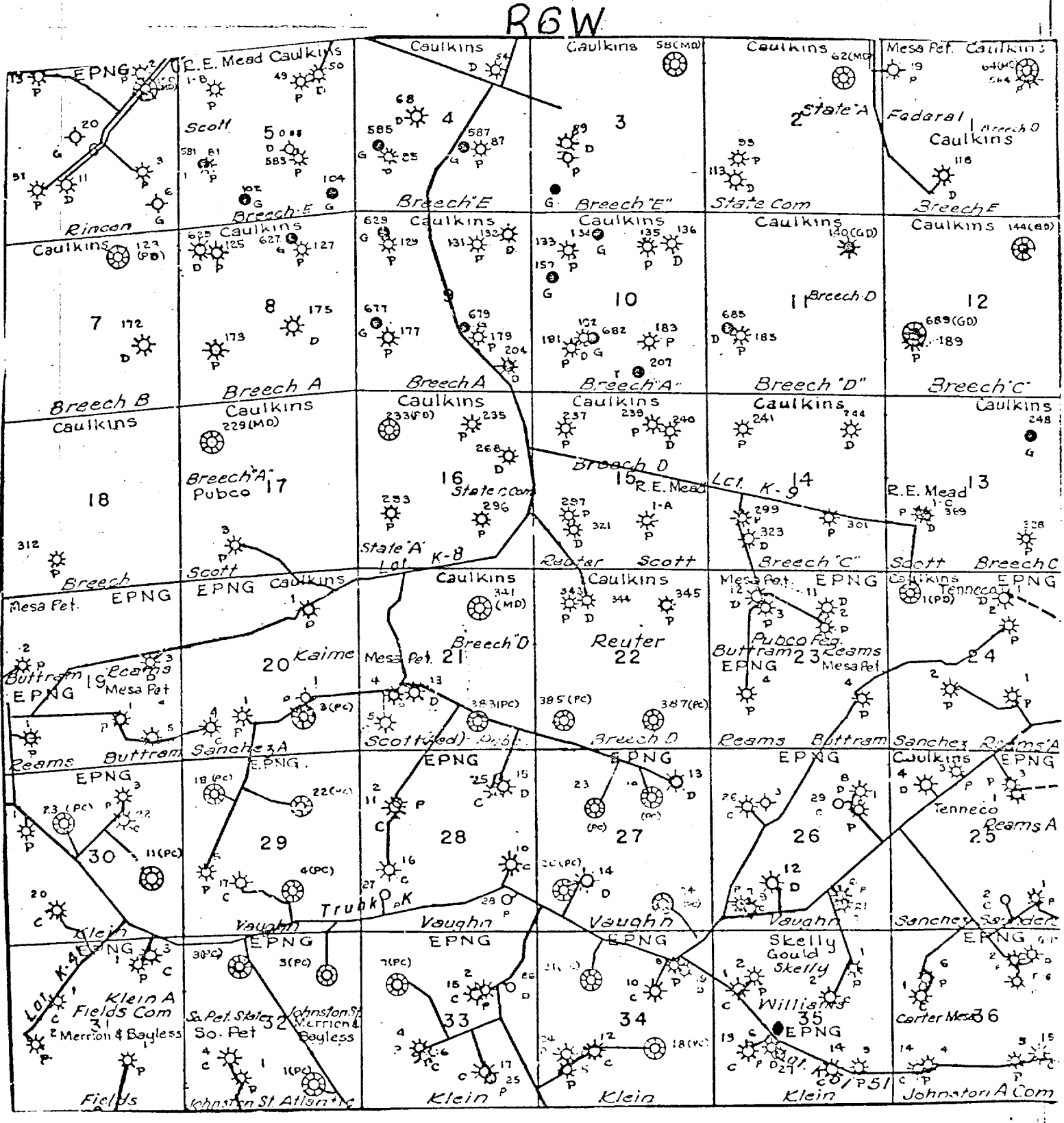
LEGEND OF RIGHT-OF-WAYS

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

El Paso Natural Gas Company

Klein #27

SW 35-26-6



MAP #2

Proposed Location ●