Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-22925

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: 2510'N, 1180'E
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: SF 078422

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Huerfano Unit

8. FARM OR LEASE NAME: Huerfano Unit

9. WELL NO.: 282

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.31,T-27-N,R-10-W NMPM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 12 miles South of Bloomfield, 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): 1180'

16. NO. OF ACRES IN LEASE: Unit

17. NO. OF ACRES ASSIGNED TO THIS WELL: E/ 320.00

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

19. PROPOSED DEPTH: 6386'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6056'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#	200'	165 cu.ft.to circulate
7 7/8"	4 1/2"	10.5#	6386'	1236 cu.ft. - 3 stages

1st stage cement - 344 cu.ft. to cover Gallup
2nd stage cement - 487 cu.ft. to cover Mesa Verde
3rd stage cement - 405 cu.ft. to cover Ojo Alamo

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 E/2 of Section 31 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 L. J. Lucero TITLE Drilling Clerk DATE 2-2-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Okay

RECEIVED
FEB 9 1978

*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	Huerfano Unit (SF-078422)	282

Unit Letter	Section	Township	Range	County
H	31	27N	10W	San Juan

Actual Footage Location of Well:
2510 feet from the North line and 1180 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6056	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.

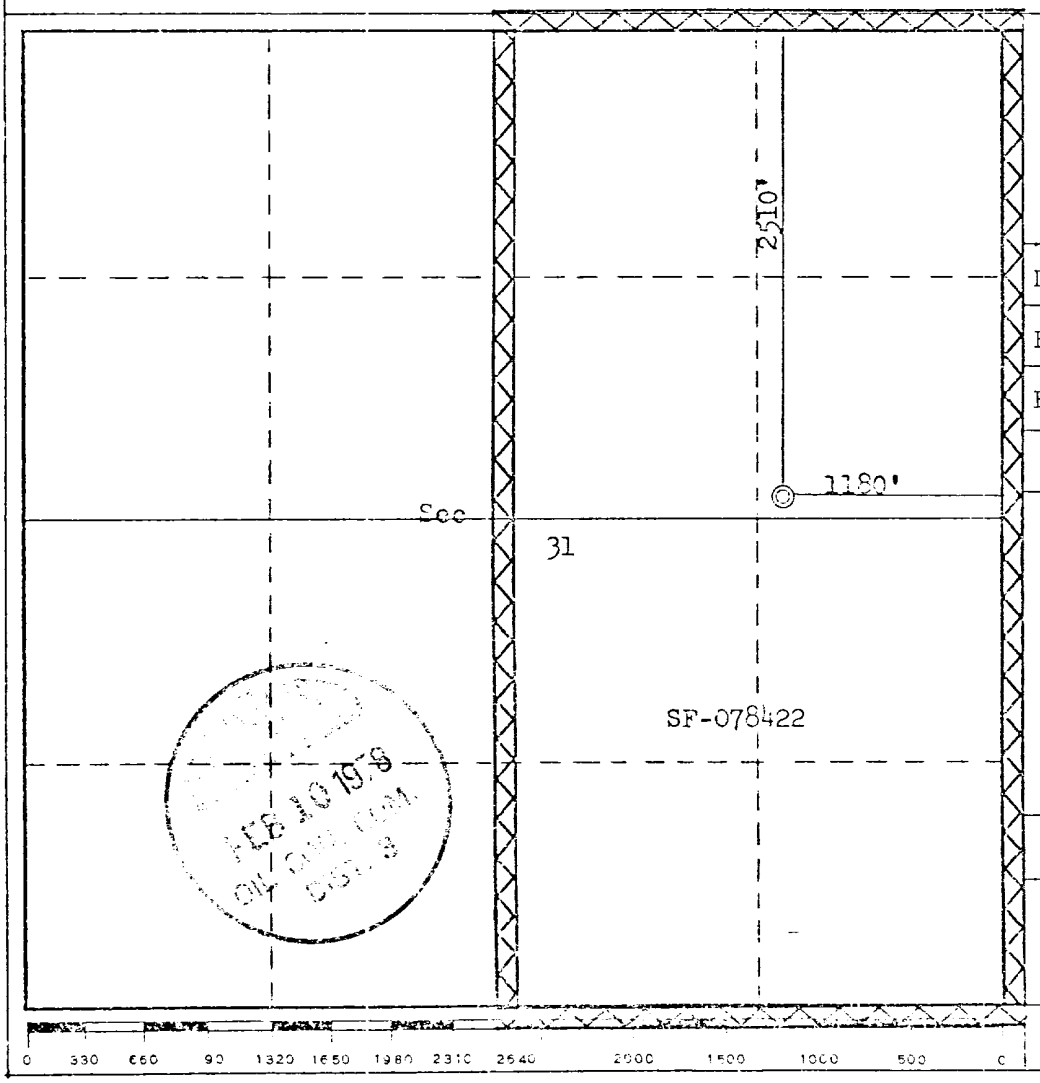
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Name: Drilling Clerk

Position: El Paso Natural Gas Co.

Company: February 2, 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 25, 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

Huerfano Unit #282

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 Pipkin 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 the Angel Peak Badlands with rolling hills of shale with greasewood. Coyotes are seen on 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

D. C. Walker
Project Drilling Engineer

DCW:pb

Operations Plan - Huerfano Unit #282

I. Location: 2510'N, 1180'E, Section 31, T-27-N, R-10-W, San Juan County, NM

Field: Basin Dakota Elevation: 6056'

II. Geology:

A. Formation Tops:

Ojo Alamo	686'	Point Lookout	4076'
Kirtland	790'	Mancos	4576'
Fruitland	1481'	Gallup	5176'
Pic.Cliffs	1651'	Greenhorn	6065'
Lewis	1776'	Graneros	6121'
Mesa Verde	3251'	Dakota	6226'
Menefee	3316'	Total Depth	6386'

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 TD.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Csg.Size	Wt.&Grade
13 3/4"	200'	8 5/8"	24.0# K-55
7 7/8"	6386'	4 1/2"	10.5# K-55

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

4 1/2" production casing - cement guide shoe and self-fill insert valve. Two multi-stage cementers equipped for three stage cementing. 20 centralizers spaced as follows: one on each of the bottom 8 joints, one below each stage tool and five above spaced every other joint.

C. Tubing: 6386' 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: 8" 600 x 8 5/8" casing head and 8" 600 x 6" 600 xmas tree assembly.

V. Cementing:

8 5/8" surface casing - use 140 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

V. cont'd.

4 1/2" production casing (4 1/2" x 7 7/8") -

1st stage - use 130 sks. of 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. (344 cu.ft., 25% excess to cover the Gallup).

2nd stage - use 301 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride (487 cu.ft. of slurry, 50% excess to cover the Mesa Verde from 100' into the Mancos Shale).

3rd stage - use 251 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride (405 cu.ft. of slurry, 60% excess to cover the Ojo Alamo from 100' into the Lewis Shale).

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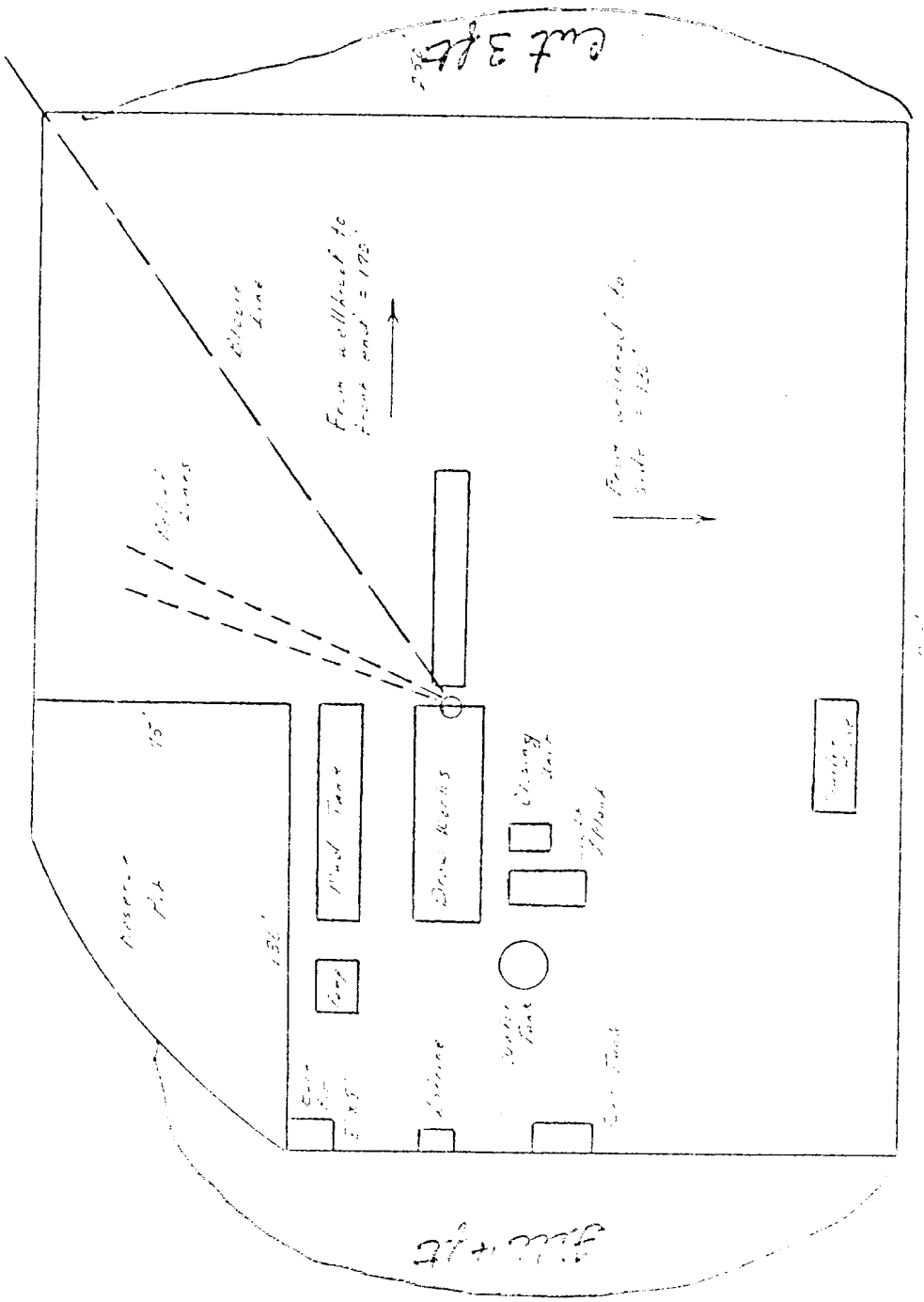
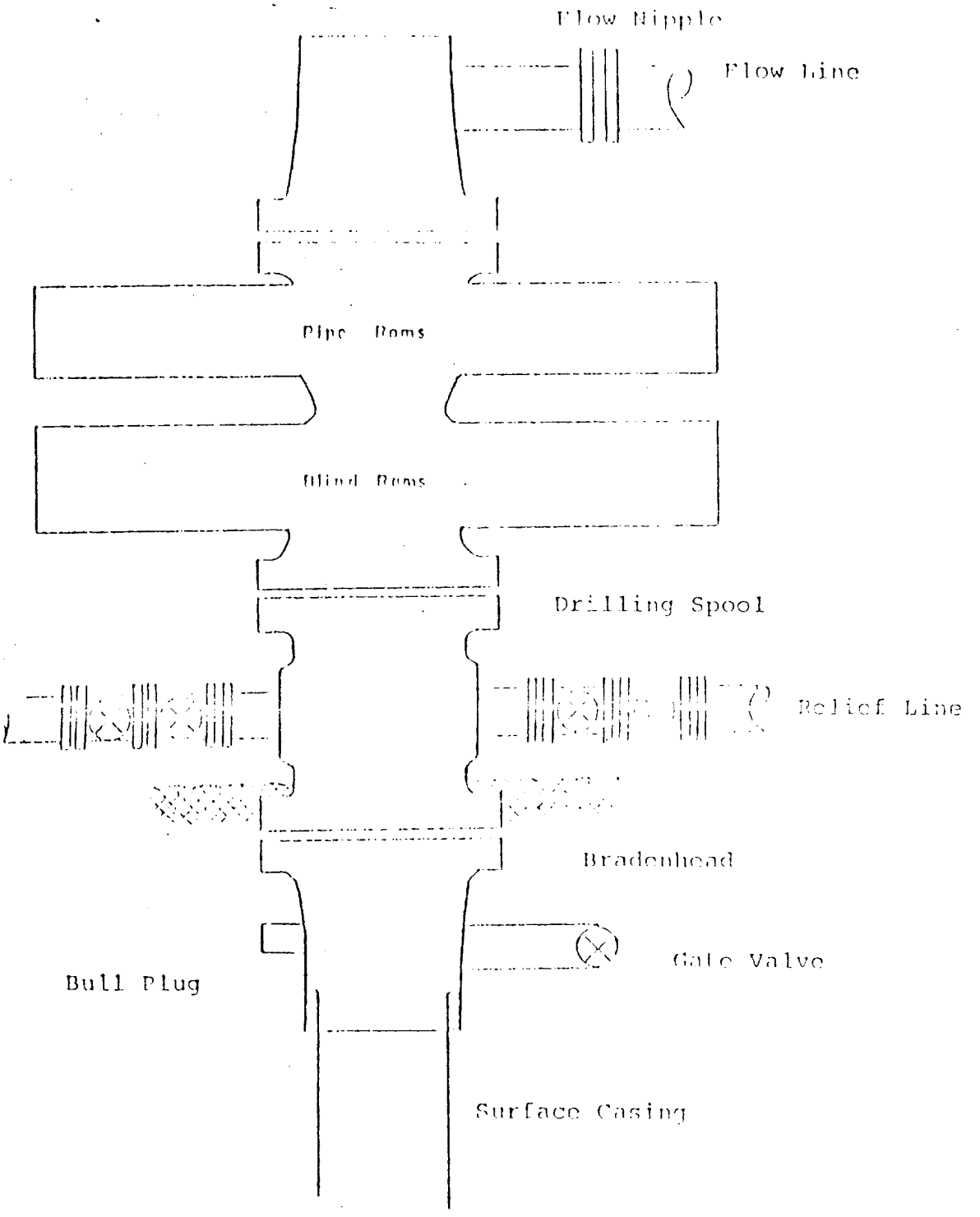


Typical B.O.P. Installation
for Dakota Well

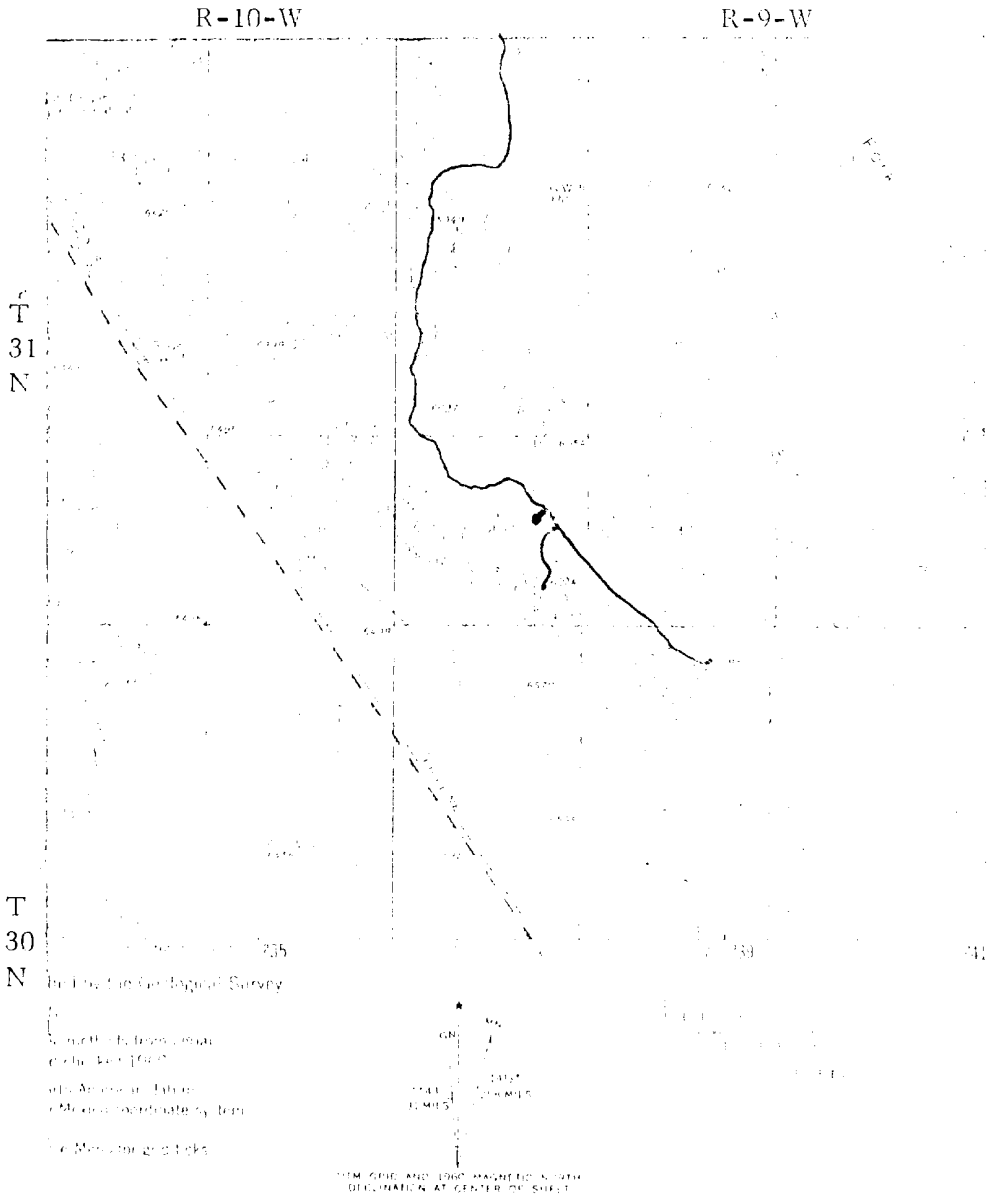


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

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.

ILLEGIBLE

El Paso Natural Gas Company
Huerfano Unit #[illegible]
SENE 31-27-10

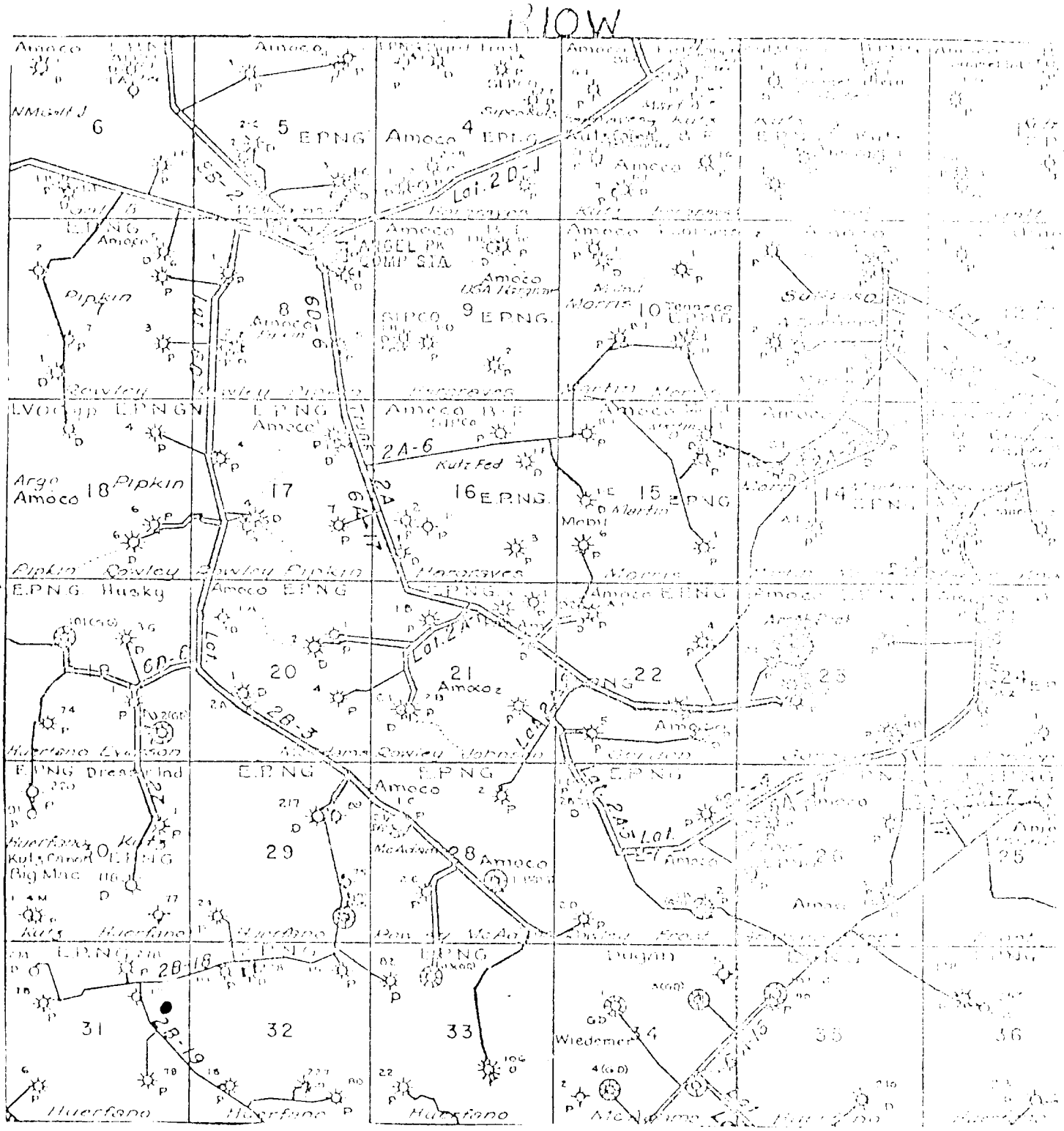


MAP #1

LEGEND OF ROAD-CLASS

EXISTING ROADS
EXISTING PIPELINES
PROPOSED ROADS
PROPOSED PIPELINES

El Paso Natural Gas Company
Huerfano Unit #282
SENE 31-27N-10W



MAP #2

Proposed Location ●