

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

## 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 1560'N, 1520'W

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 miles south of Gobernador, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

1120'

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

2200'

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6504'GL

## 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"	36.0#	200'	224 cu.ft. to circulate
8 3/4"	7"	20.0#	3590'	211 cu.ft. to cover Ojo Alamo
6 1/4"	4 1/2" liner	10.5#	3440-5840'	419 cu.ft. to circ. liner

Selectively perforate and sandwater fracture the Mesa Verde and  
Pictured Cliffs 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 33 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 D. G. Luisco TITLE Drilling Clerk DATE May 2, 1980

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

APPROVED  
AS AMENDEDMAY 21 1980  
JAMES F. SIMS  
DISTRICT ENGINEER

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO THE ATTACHED  
"CERTIFICATE OF AUTHORITY"

\*See Instructions On Reverse Side

NMOCC

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

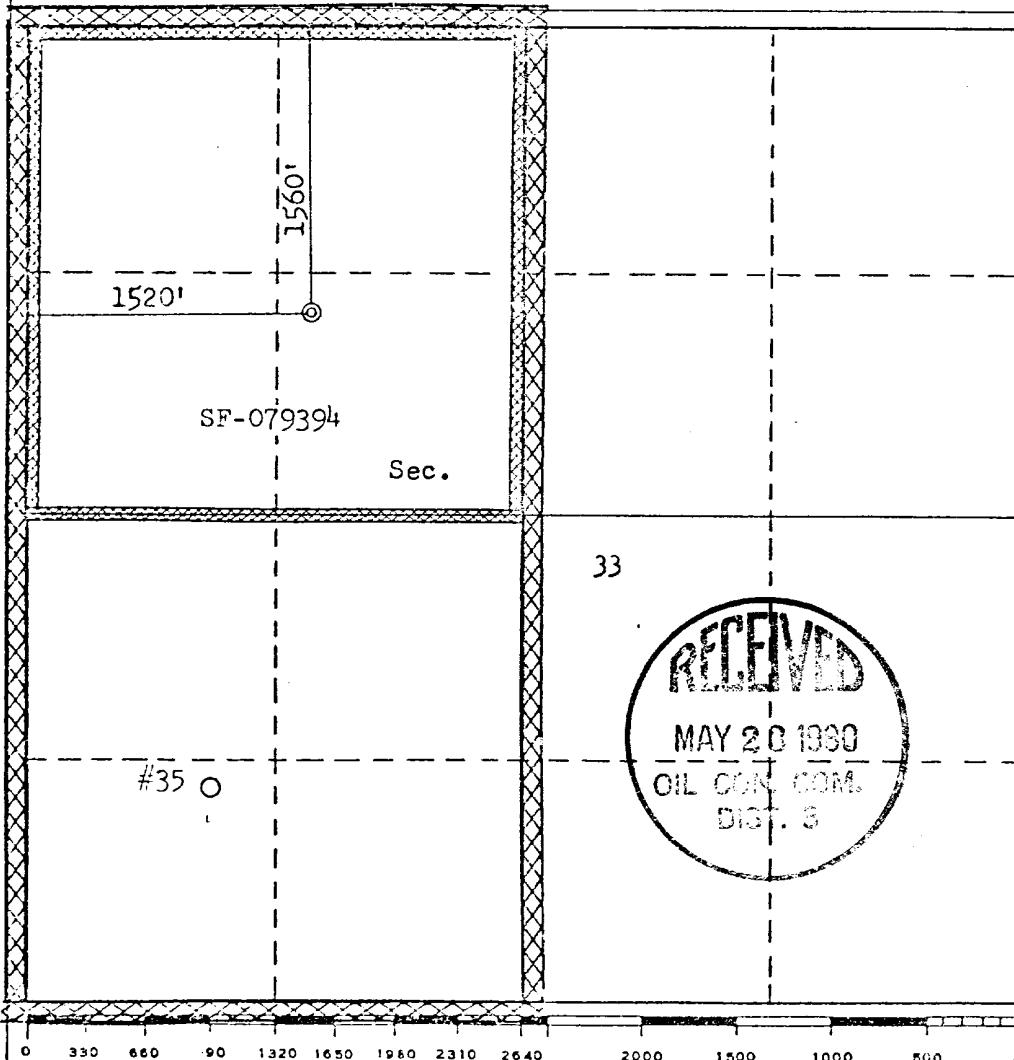
Operator <b>EL PASO NATURAL GAS COMPANY</b>			Lease <b>SAN JUAN 27-5 UNIT (SF-079394)</b>		Well No. <b>35-A</b>
Unit Letter <b>F</b>	Section <b>33</b>	Township <b>27N</b>	Range <b>5W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1560</b> feet from the <b>North</b> line and <b>1520</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6504</b>	Producing Formation <b>Mesa Verde -</b>	Pictured <b>Cliffs</b>	Pool So. Blanco Pictured <b>Cliffs</b>	Dedicated Acreage: <b>160.00 &amp; 320.00</b> 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. P. Brisco*

Name  
Drilling Clerk

Position  
El Paso Natural Gas Co

Company  
May 2, 1980

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

April 1, 1980

Registered Professional Engineer  
and/or Land Surveyor

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No. *12*  
3950

# REHABILITATION AGREEMENT

Lease No.: SF-079394; Well Name & No.: San Juan 27-5 Unit #35 A  
 Location: SE 1/4 NW 1/4 Sec. 33, T. 27 N., R. 5 W.

El Paso Natural Gas Company intends to drill a well on surface owned by  
Eulogia Candelaria c/o Fidel Candelaria. The lessee/operator  
 agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access roads and provide adequate drainage  
 to road

☒ Yes ☐ No Reshape and reseed any area in excess of the pump and  
 support facilities.

Other requirements: \_\_\_\_\_

The following work will be completed when the well is abandoned:

☐ Yes ☒ No Site will require reshaping to conform to existing  
 topography.

☒ Yes ☐ No Pit will be fenced until dry, then filled to conform  
 to topography.

☒ Yes ☐ No Entire disturbed area will be reseeded. If yes,  
 the following seed mixture will be used:

## RECOMMENDED PROCEDURE AT TIME OF ABANDONMENT

☒ Yes ☐ No Access road will be rehabilitated and reseeded using  
 the same seed mixture as above.

☐ Yes ☐ No Access road will remain for landowner's use.

Other requirements: \_\_\_\_\_

### Landowner

Name: Eulogia Candelaria  
 Address: c/o Fidel Candelaria  
 City: Blanco  
 State: New Mexico  
 Telephone: \_\_\_\_\_  
 Date: 4-2-80

### Operator/Lessee

Name: EL PASO NATURAL GAS COMPANY  
 Address: P. O. Box 990  
 City: Farmington  
 State: New Mexico 87401  
 Telephone: (505) 325-2841  
 Date: 4-2-80

☒ Yes ☐ No I certify rehabilitation has been discussed with the  
 surface owner.


John A. O'Leary - Regional Land Manager

This agreement covers rehabilitation requirements only and does not affect any  
 other agreements between the lessee/operator and surface owner.

Multi-Point Surface Use Plan  
San Juan 27-5 Unit 35A

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 Campanero Water Hole #1.
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. Deer and cattle 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.



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D. R. Read  
Project Drilling Engineer

Operations Plan  
San Juan 27-5 Unit #35A

I. Location: 1560'N, 1520'W, Section 33, T-27-N, R-5-W, Rio Arriba County, NM

Field: Blanco MV & So.Blanco PC

Elevation: 6504'GL

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3388'
	Ojo Alamo	2656'	Mesa Verde	4845'
	Kirtland	2778'	Menefee	4977'
	Fruitland	2962'	Point Lookout	5389'
	Pic.Cliffs	3225'	Total Depth	5840'

B. Logging Program: I-ES and GR-Density at 3590'  
GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 4835', 4970', 5380' and at Total Depth.  
Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3590'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt.&amp;Grade</u>
	13 3/4"	200'	9 5/8"	36.0 K-55
	8 3/4"	3590'	7"	20.0# K-55
	6 1/4"	3440-5840'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

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" liner - 4 1/2" liner hanger with neoprene packoff & PBR. Geyser shoe and plug latch-in collar assembly.

C. Tubing: 5840' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.  
3590' of 1 1/4", 2.33# J-55 IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.

D. Wellhead Equipment: 10" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 dual tubing head.

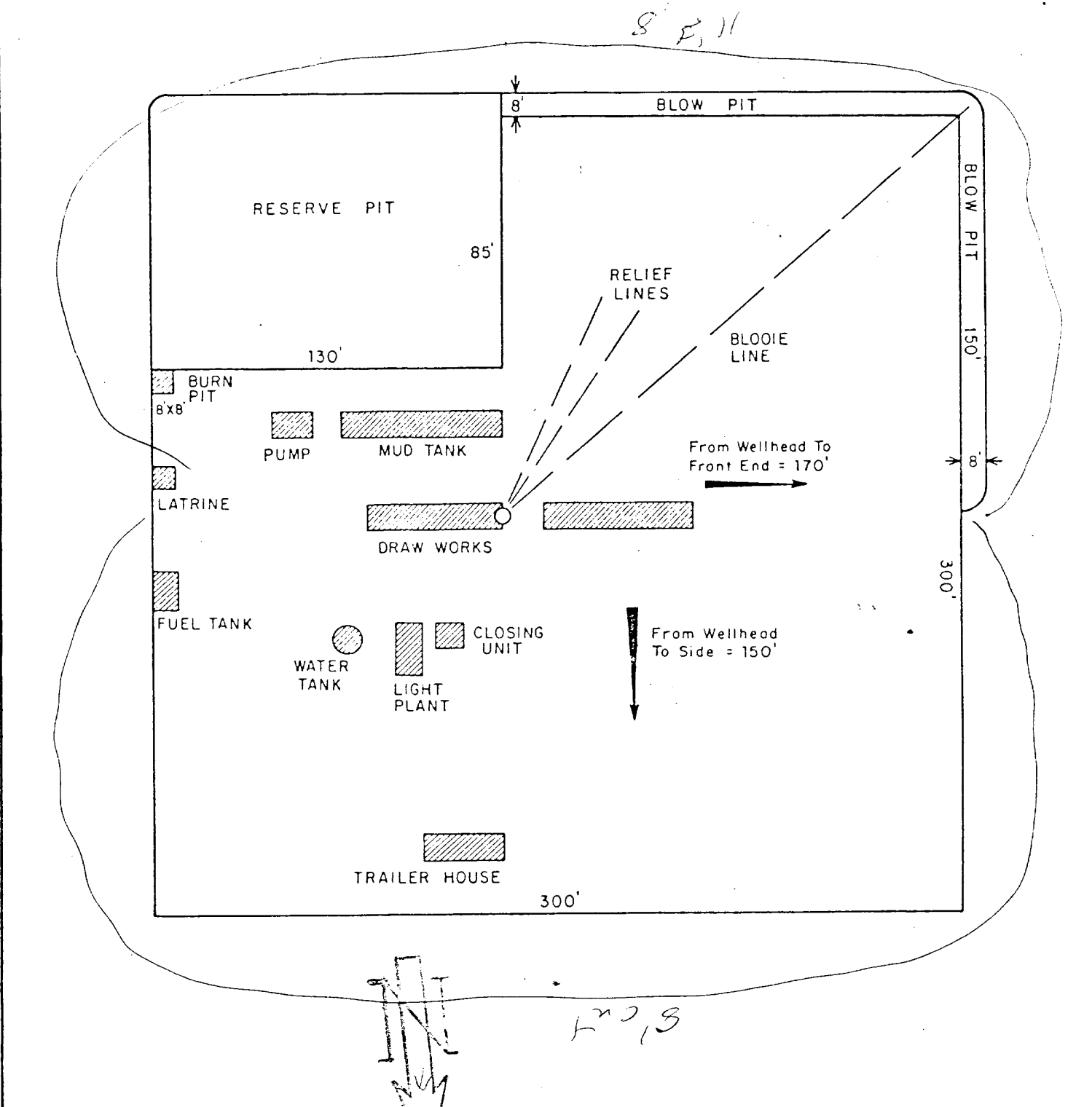
## Operations Plan - San Juan 27-5 Unit #35A

### 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.

7" intermediate casing - use 57 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (211 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

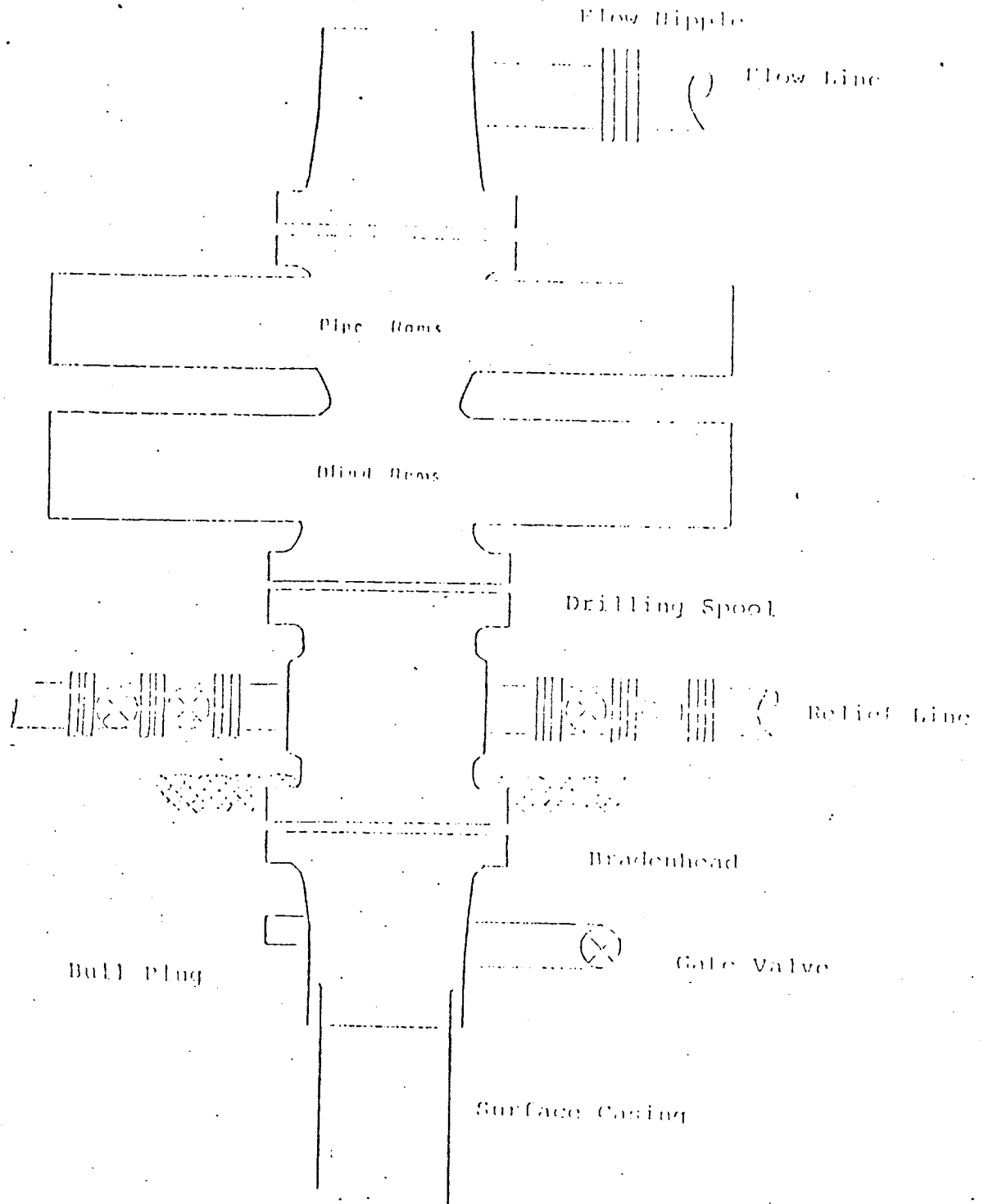
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 301 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (419 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



PRT.		SEP.	DATE	TO	W.O.	<table border="1"> <tr> <td colspan="2">ENG. REC.</td> <td>DATE</td> </tr> <tr> <td>DRAWN</td> <td>J.L.H.</td> <td>8-16-78</td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>PROJ. APP.</td> <td></td> <td></td> </tr> <tr> <td>DESIGN</td> <td></td> <td></td> </tr> </table>	ENG. REC.		DATE	DRAWN	J.L.H.	8-16-78	CHECKED			CHECKED			PROJ. APP.			DESIGN			El Paso Natural Gas Company		TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE		REV
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PRINT RECORD						SCALE: 1" = 50'	DWG. NO.																						



Typical R.O.C. Installation  
for Beta Verde 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

R-5-W



## PROPOSED ROAD & PIPELINE

E + +

R-5-W

