

**El Paso** EXPLORATION  
COMPANY

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

NS 2-1410  
Rule 104 F  
Blanco Mesa Verde  
Immediate fee  
(Do we have a waiver  
from the fee?)

July 14, 1981

Mr. Joe Ramey  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

This is a request for administrative approval for an unorthodox gas well location in the Blanco Mesa Verde pool.


It is intended to locate the El Paso Natural Gas Company's San Juan 27-4 Unit #139 at 2200' from the South line and 800' from the East line of Section 9, T-27-N, R-4-W, Rio Arriba County, New Mexico.

Extremely rough terrain in the form of steep cliffs and the sand wash Arroyo Companero in the southeast corner of this section makes it impossible to build an orthodox gas well location.

El Paso operates all proration units offsetting the proposed unorthodox location.

Plats showing the proposed well location and the terrain of Section 9, along with an ownership plat, are attached.

Yours truly,



Gary W. Brink  
Project Drilling Engineer

GWB:pb

# EL PASO NATURAL GAS COMPANY

Well Name San Juan 27-4 Unit #139

Blanco Mesaverde

Footage----- 2200' FSL, 800' FEL

## APPLICATION FOR NON-STANDARD LOCATION

County Rio Arriba

State New Mexico

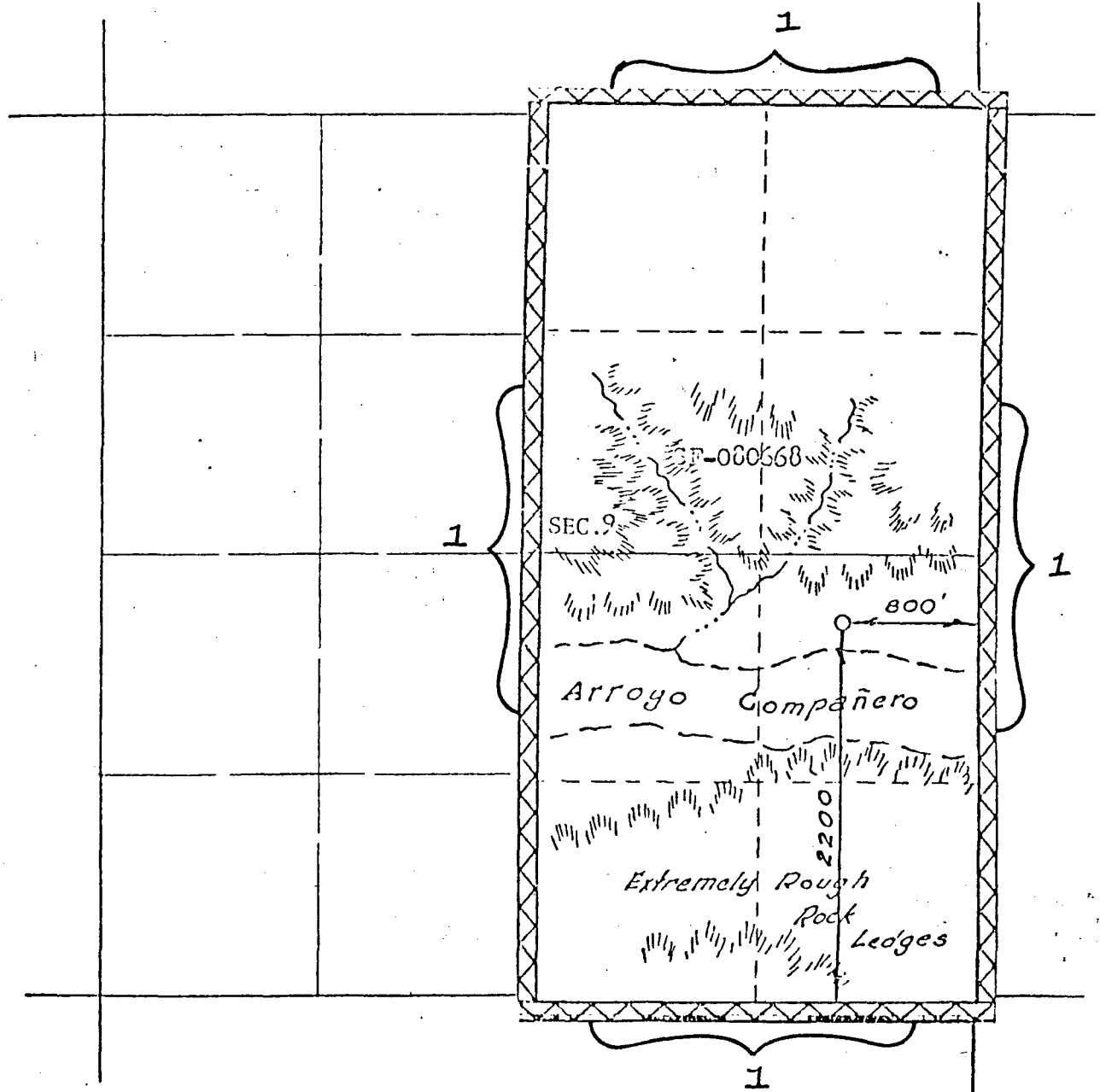
Section 9

Township

27 N

Range

4 W



REMARKS: (1) San Juan 27-4 Unit, EL PASO NATURAL GAS COMPANY-OPERATOR

(ld)

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

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 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

2200'S, 800'E

At proposed prod. zone

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

9 miles southeast of Gobernador, NM

## 15. DISTANCE FROM PROPOSED\*

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

800'

## 16. NO. OF ACRES IN LEASE

unit

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

2640'

## 19. PROPOSED DEPTH

6250'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320.00

## 20. ROTARY OR CABLE-TOOLS

Rotary

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

6748' 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"	36.0#	200'	224 cu.ft.to circulate
8 3/4"	7"	20.0#	4005'	256 cu.ft.to cover Ojo Al.
6 1/4"	4 1/2" liner	10.5#	3855-6250'	417 cu.ft.to circ. liner

Selectively perforate and sandwater fracture the Mesa Verde 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 9 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

*A. G. Busco*

TITLE

Drilling Clerk

DATE

July 14, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

N MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-120  
Effective 1-1-65

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

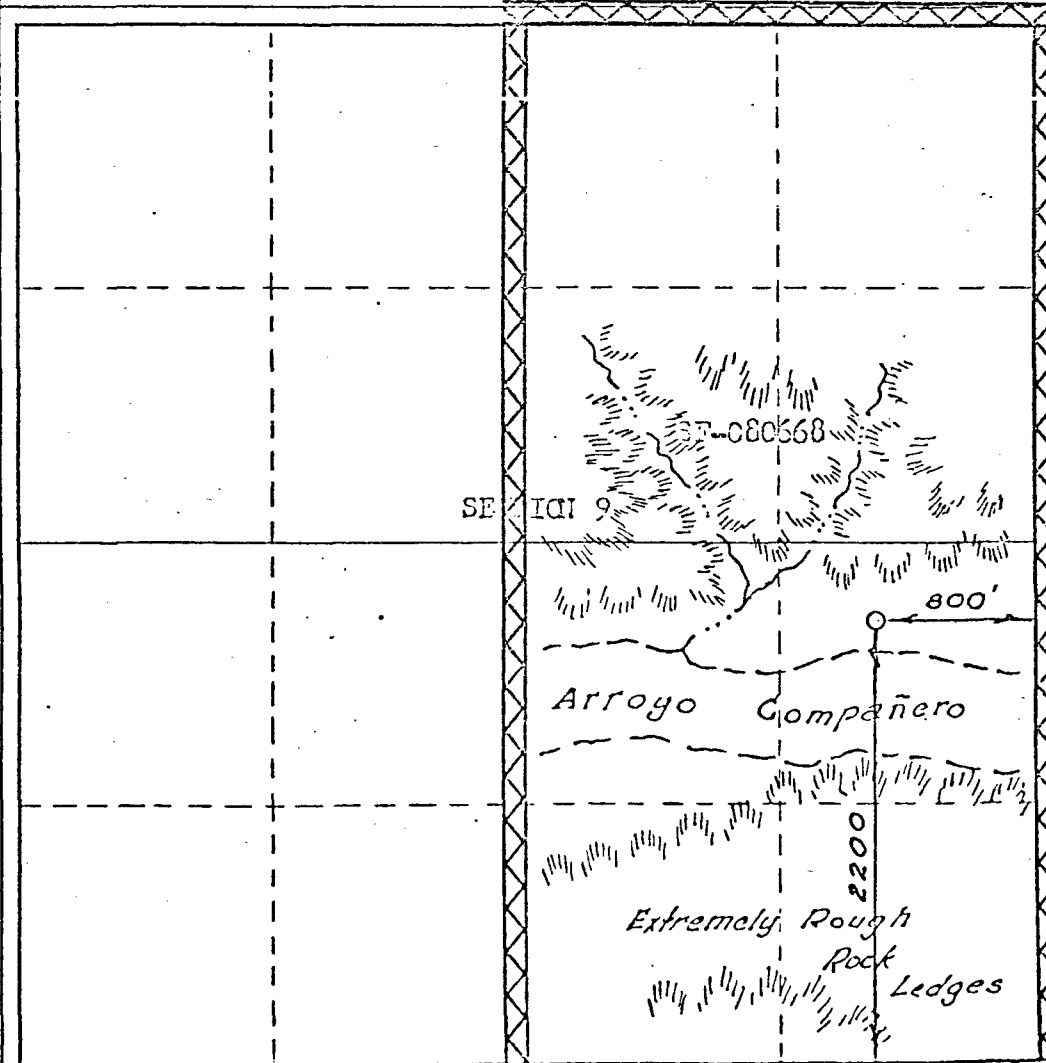
Operator <b>EL PASO NATURAL GAS COMPANY</b>		Lease <b>SAN JUAN 27-4 UNIT (SF-080668)</b>		Well No. <b>139</b>
Unit Letter <b>I</b>	Section <b>9</b>	Township <b>27-N</b>	Range <b>4-W</b>	County <b>RIO ARriba</b>
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span>2200 feet from the <b>SOUTH</b> line and</span> <span>800 feet from the <b>EAST</b> line</span> </div>				
Ground Level Elev. <b>6748</b>	Producing Formation <b>MESA VERDE</b>	Pool <b>BLANCO MESA VERDE</b>	Dedicated Acreage: <b>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. NOTE: THIS PLAT REISSUED TO SHOW WELL NUMBER AND PRODUCING FORMATION CHANGE 6-9-81



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*D. G. Buice*  
Name

**Drilling Clerk**  
Position

**El Paso Natural Gas**  
Company

**July 14, 1981**  
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  
**OCTOBER 25, 1973**

Registered Professional Engineer and/or Land Surveyor

*David O'Brien*

Certificate No. **1760**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

C.C. to Dave Vilvin  
Earl Mealer  
John Abim

Multi-Point Surface Use Plan  
San Juan 27-4 Unit #139

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 44 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,

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 operation 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 canyon bottom with sage, grass and rabbitbrush growing. Location was previously built and reseeded. Cattle, deer and elk are occasionally seen on the proposed project site.
12. Operator's Representative - D. R. Read, PO Box 289, 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.



Gary W. Brink  
Project Drilling Engineer

Operations Plan  
San Juan 27-4 Unit #139

I. Location: 2200'S, 800'E, Section 9, T-27-N, R-4-W, Rio Arriba Co., NM

Field: Blanco Mesa Verde

Elevation: 6748'GL

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3806'
	Ojo Alamo	3166'	Mesa Verde	5424'
	Kirtland	3268'	Menefee	5564'
	Fruitland	3441'	Pt. Lookout	5797'
	Pic. Cliffs	3646'	Total Depth	6250'

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 5455', 5787' 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 4005'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>
	13 3/4"	200'	9 5/8"	36.0# H-40
	8 3/4"	4005'	7"	20.0# K-55
	6 1/4"	3855-6250'	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. Geyser shoe and plug latch-in collar assembly.

C. Tubing: 6250' 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.

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



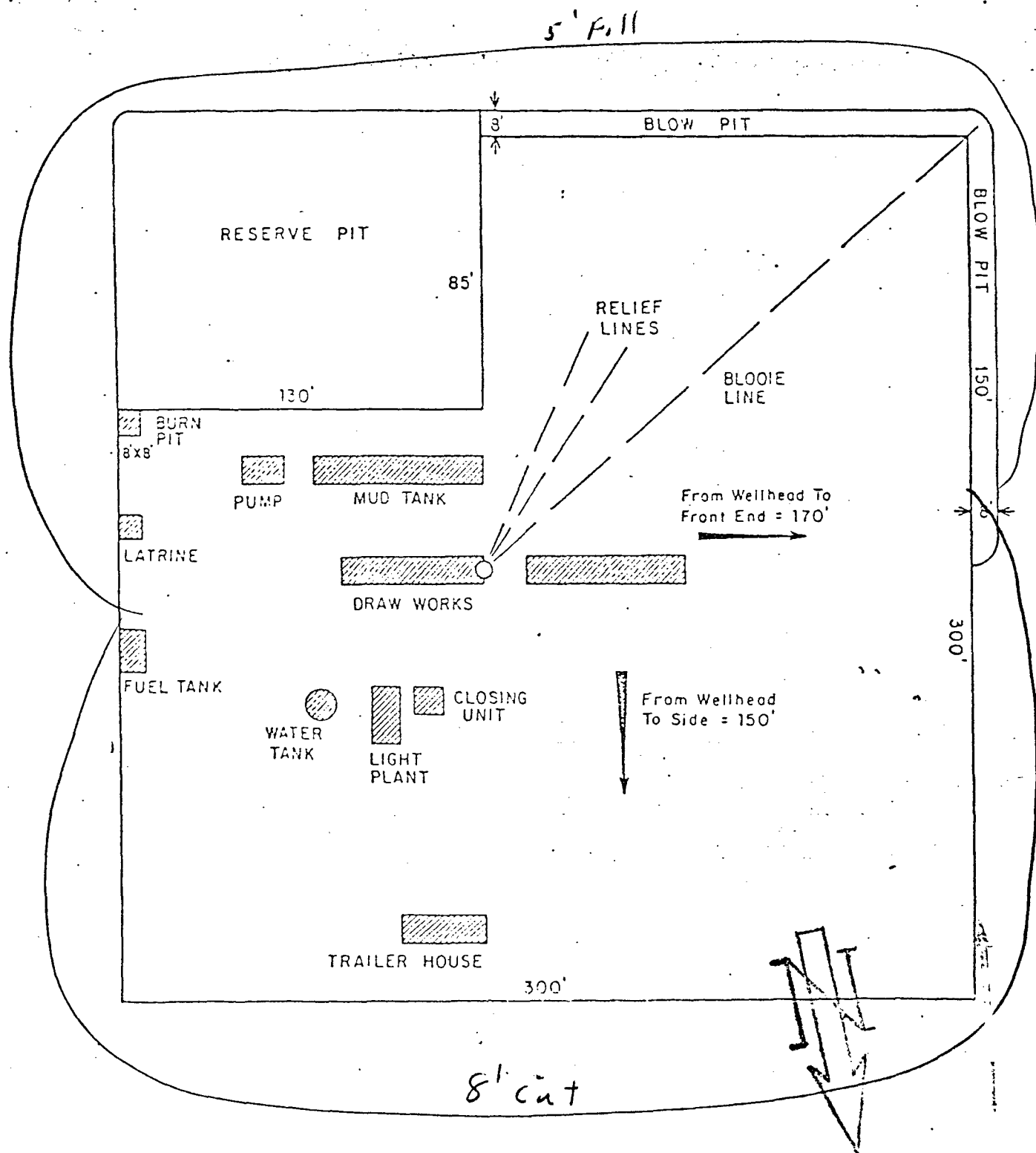
Operations Plan - San Juan 27-4 Unit #139

V. Cementing:


9 5/8" surface casing - use 190 sks. 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 85 sks. 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons water/sack) followed by 100 sks. Class "B" with 2% calcium chloride (256 cu.ft. of slurry, 100% 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 bbls. gel water (2 sks.gel). Cement with 300 sks. 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (417 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

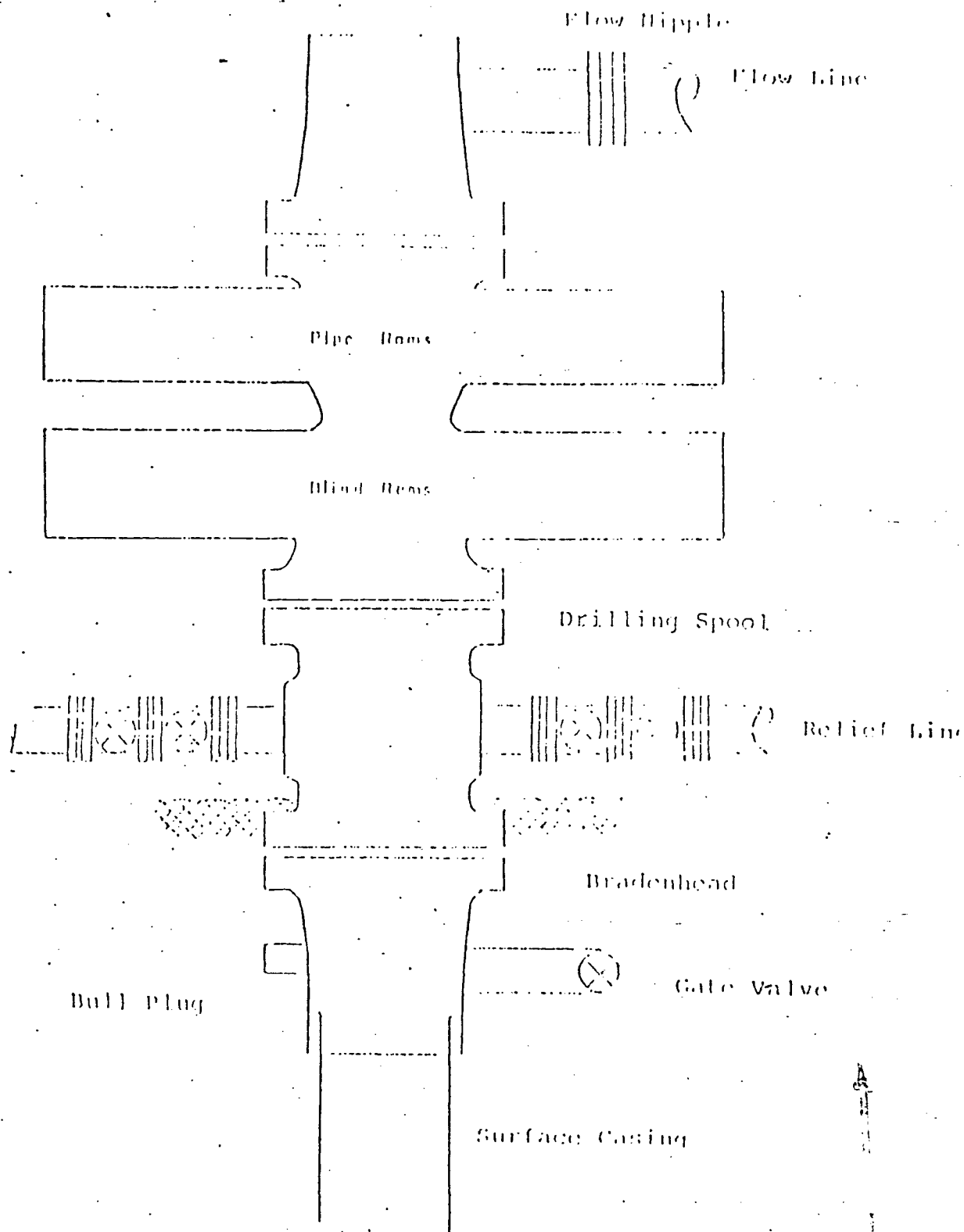


ENG. REC.		DATE
DRAWN	J.L.H.	18-16-78
CHECKED		
CHECKED		
PROJ. APP.		
DESIGN		

 El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR  
MESAVERDE OR DAKOTA DRILL SITE

Typical B.O.P. Installation  
for Mega Verde Well

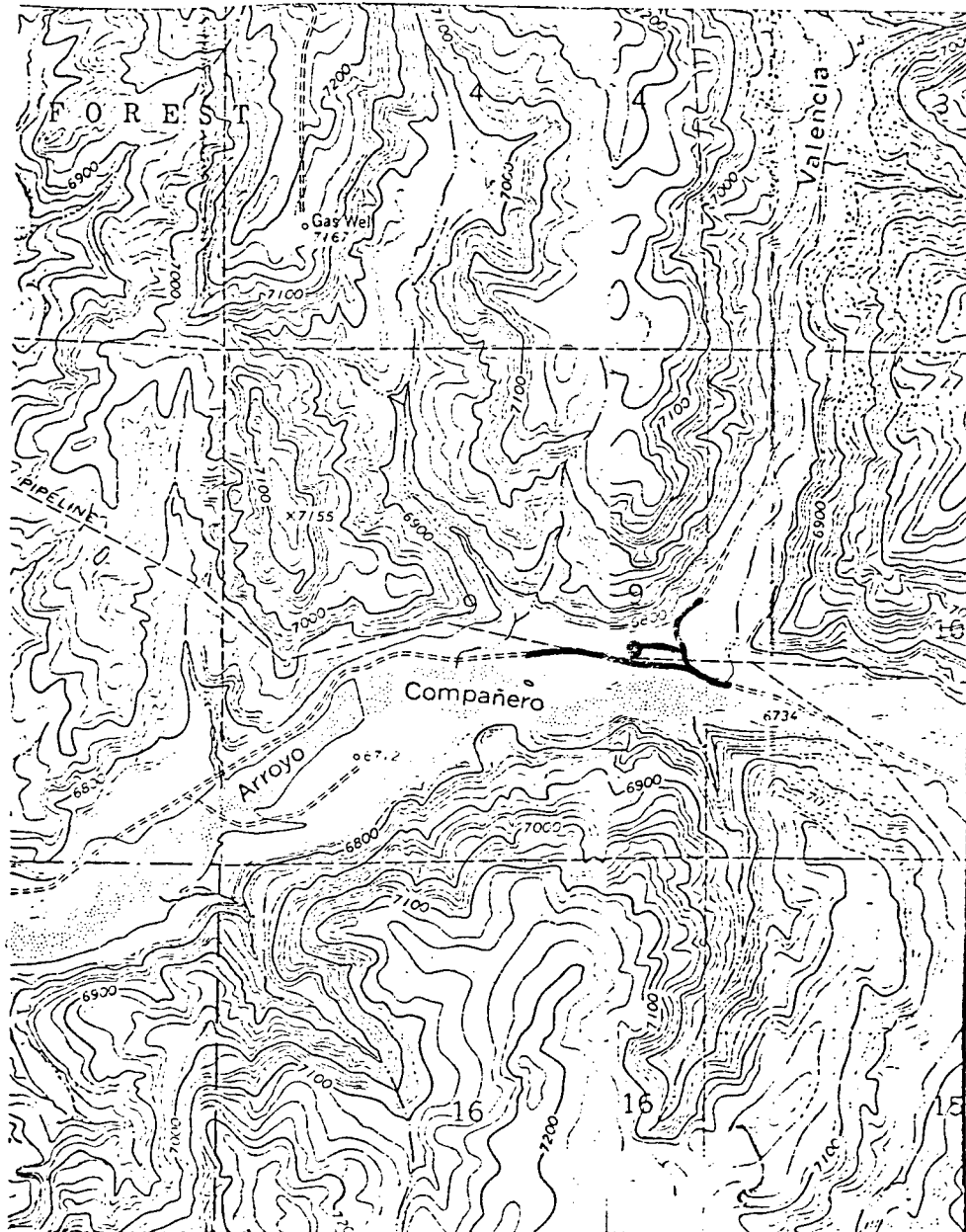


Series 900 Double Gate BOP, rated  
at 3000 psi Working Pressure  
When gas drilling operations begin a Shaffer type 50  
or equivalent rotating head is installed on top of the  
flow nipple and the flow line is converted into a blowie line

EL PASO NATURAL GAS COMPANY  
San Juan 27-4 Unit #139  
SE 9-27-4

R-4-W

T  
27  
N



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

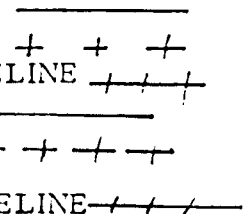
EXISTING PIPELINES

EXISTING ROAD & PIPELINE

PROPOSED ROADS

PROPOSED PIPELINES

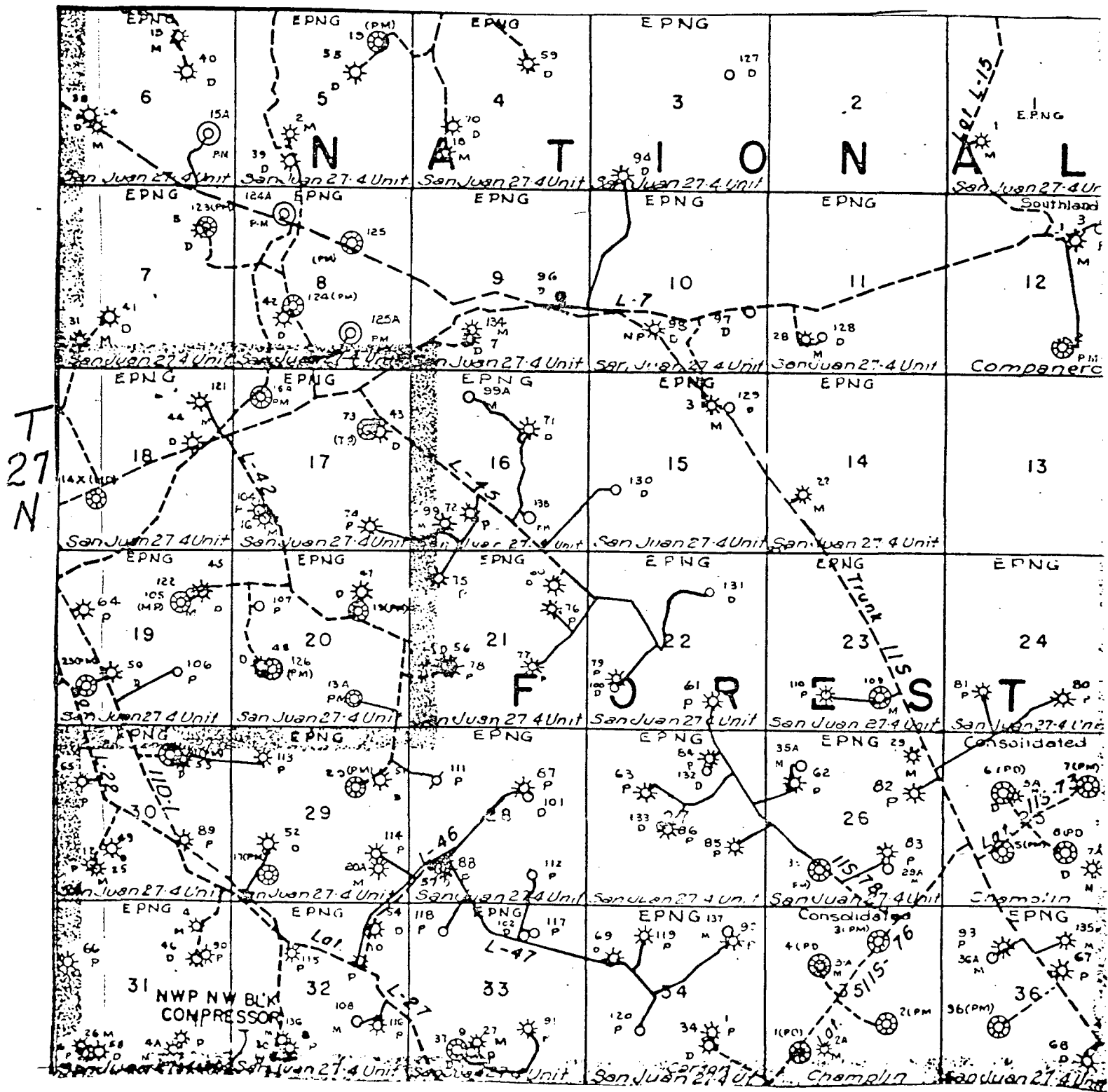
PROPOSED ROAD & PIPELINE



# EL PASO NATURAL GAS COMPANY

San Juan 27-4 Unit #139

SE 9-27-4



R-4-W

Proposed Location

MAP #2



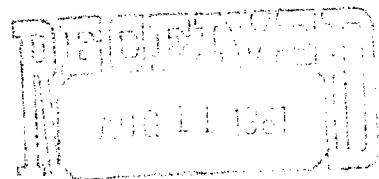
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 8-7-81

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL ✓ \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



OIL CONSERVATION DIVISION  
SANTA FE

Gentlemen:

I have examined the application dated July 20, 1981  
for the El Paso Natural Gas Co. Santa Fe 27-4 U-4 #129 I-9-27N-4W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Bill A. Edmister  
100

EL PASO NATURAL GAS COMPANY

Well Name San Juan 27-4 Unit #139

Blanco Mesaverde

Footage----- 2200' FSL, 800' FEL

APPLICATION FOR NON-STANDARD LOCATION

County Rio Arriba

State New Mexico

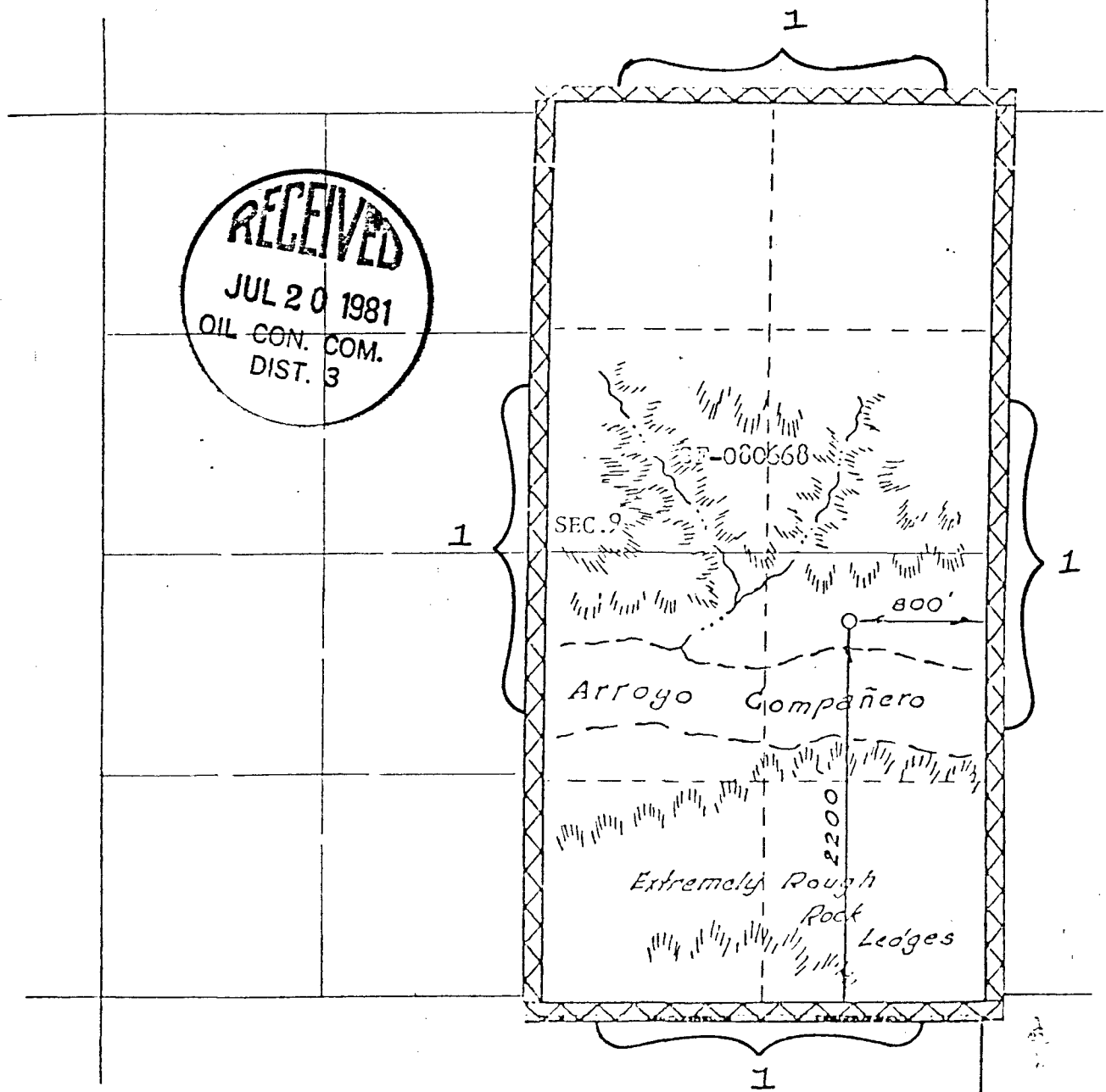
Section 9

Township

27 N

Range

4 W



REMARKS: (1) San Juan 27-4 Unit, EL PASO NATURAL GAS COMPANY-OPERATOR

ld