

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-041-23383

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

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. SF 078095		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR El Paso Natural Gas Company			7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR PO Box 289, Farmington, NM 87401			8. FARM OR LEASE NAME Elliott A		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <b>E</b> 1450'N, 980'W  At proposed prod. zone same			9. WELL NO. 1A		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles North of Aztec, NM			10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 980'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T-31-N, R-11-W NMPM		
16. NO. OF ACRES IN LEASE 1900.14			12. COUNTY OR PARISH San Juan		
17. NO. OF ACRES ASSIGNED TO THIS WELL w/ 321.40			13. STATE NM		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 800'			19. PROPOSED DEPTH 5290'		
20. ROTARY OR CABLE TOOLS Rotary			21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6012' 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"	7"	20.0#	2920'	273 cu.ft. to cover Ojo Alam
6 1/4"	4 1/2" liner	10.5#	2770-5290'	440 cu.ft. to fill to 2770'

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 W/2 of Section 19 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. Guisco TITLE Drill DATE 1-15-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

\*See Instructions On Reverse Side

NMOCC

# WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-55

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

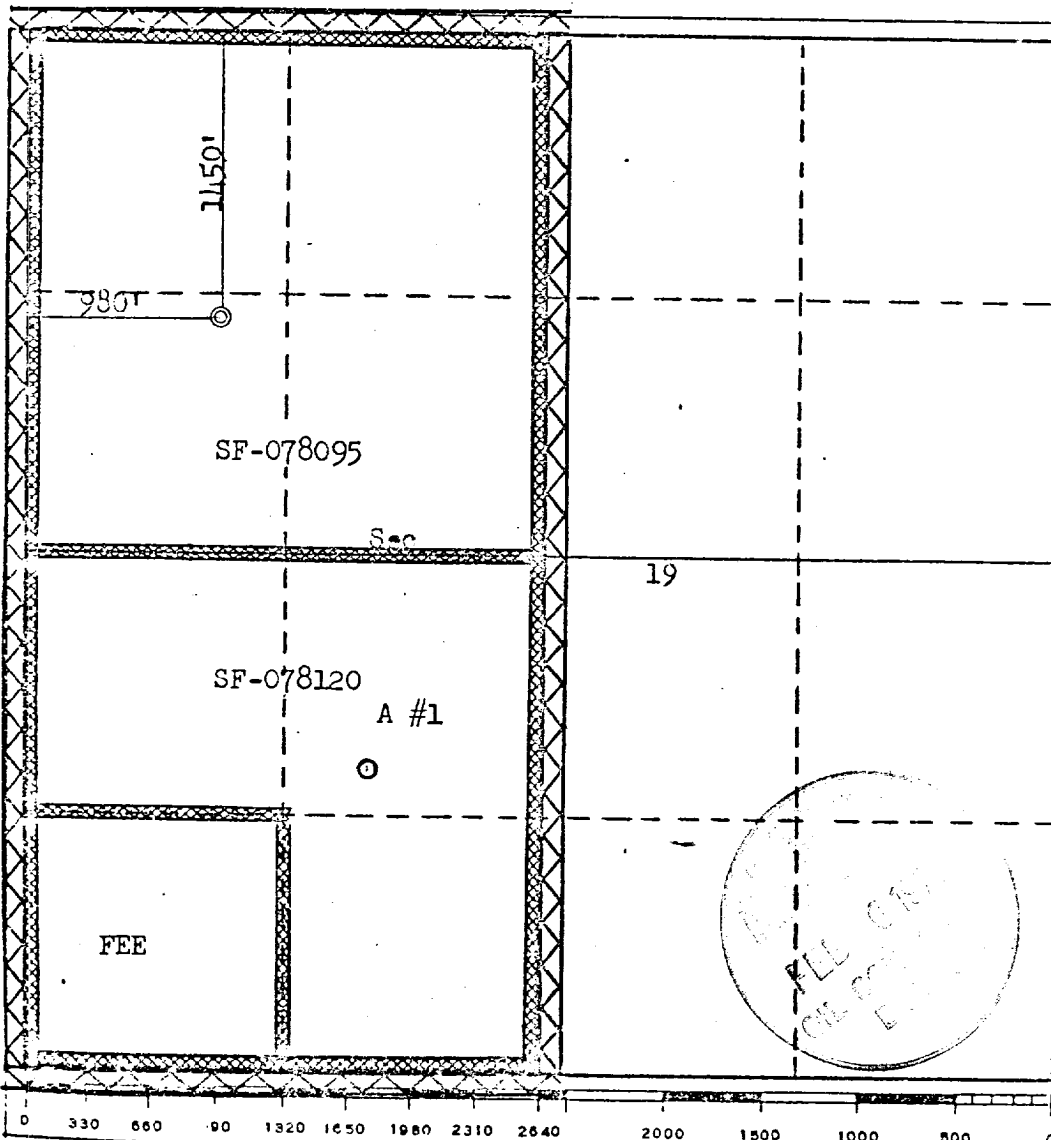
Operator <b>EL PASO NATURAL GAS COMPANY</b>			Lease <b>ELLIOTT A (SF-078095)</b>		Well No. <b>1A</b>
Unit Letter <b>E</b>	Section <b>19</b>	Township <b>31N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1450</b> feet from the <b>North</b> line and <b>980</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6012</b>	Producing Formation <b>Mesa Verde</b>		Pool <b>Blanco Mesa Verde</b>	Dedicated Acreage: <b>321.40</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 Communitization

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.

*D. G. Buice*

Name  
Drilling Clerk  
Position  
El Paso Natural Gas Co.  
Company  
January 29, 1979  
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 8, 1978  
Registered Professional Engineer  
and/or Land Surveyor  
*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.  
Certificate No. 3950

Multi-Point Surface Use Plan  
Elliott A #1A

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 ditch at Aztec, NM.
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 reseeded operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeded 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 and sandstone ledges with pinon and cedar growing. cattle graze 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.



L. A. Aimes  
Project Drilling Engineer

Operations Plan  
Elliott A #1A

I. Location: NW/4 Section 19, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde

Elevation: 6012'GL

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Lewis	2720'
	Ojo Alamo	1710'	Mesa Verde	4045'
	Kirtland	1740'	Menefee	4300'
	Fruitland	2170'	Point Lookout	4840'
	Pic.Cliffs	2550'	Total Depth	5290'

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

C. Coring Program: none

D. Natural Gauges: 4035', 4290', 4830' 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 2920'. Gas from intermediate casing 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"	2920'	7"	20.0# K-55
	6 1/4"	2770-5290'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - B & W guide shoe  
(Prod. No. FC 06-09611-0200)

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A &37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig.222) and Larkin flapper type float collar(fig.404 M&F).

C. Tubing: 5290' 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" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

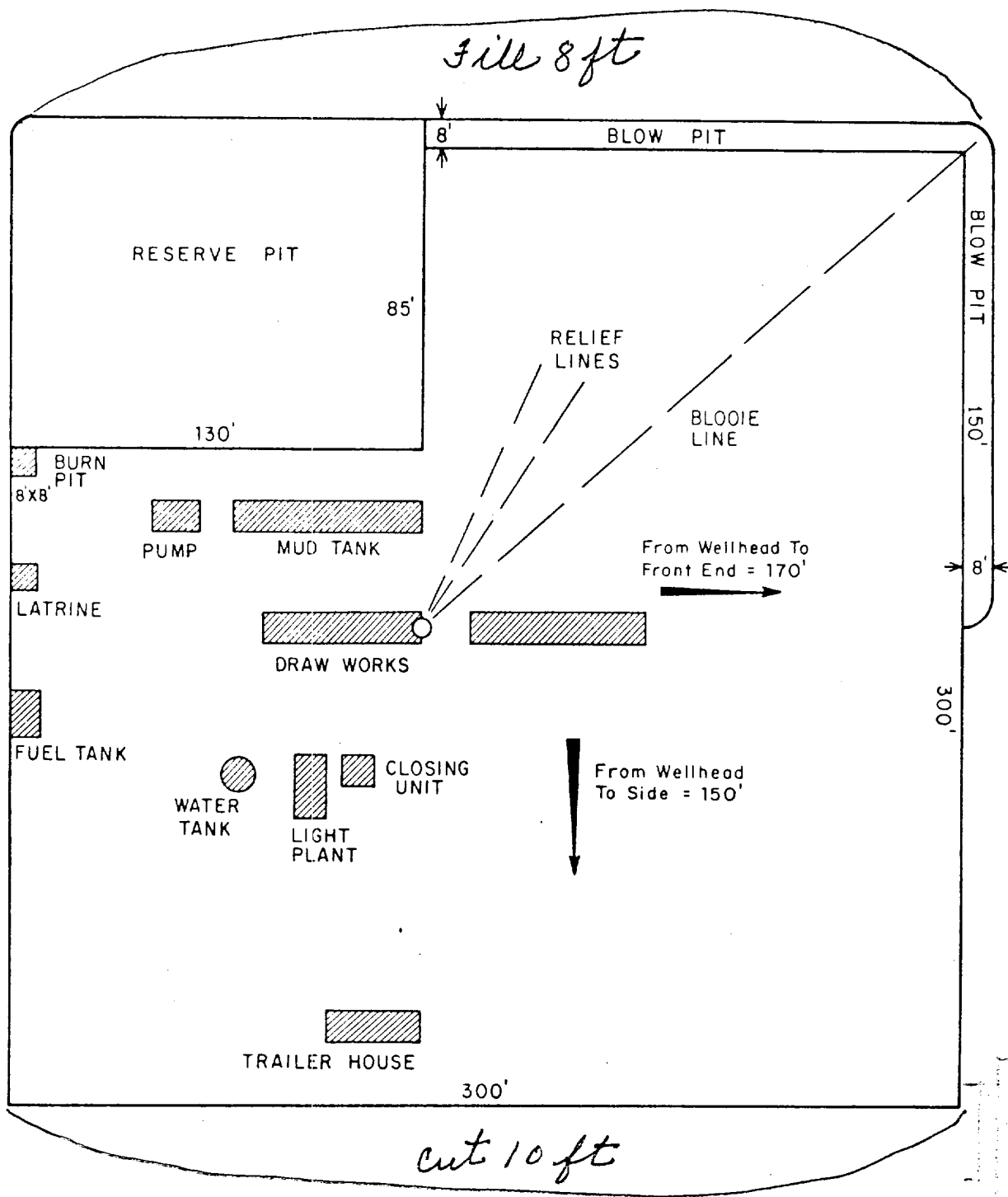
Operations Plan - Elliott A #1A

V. Cementing:

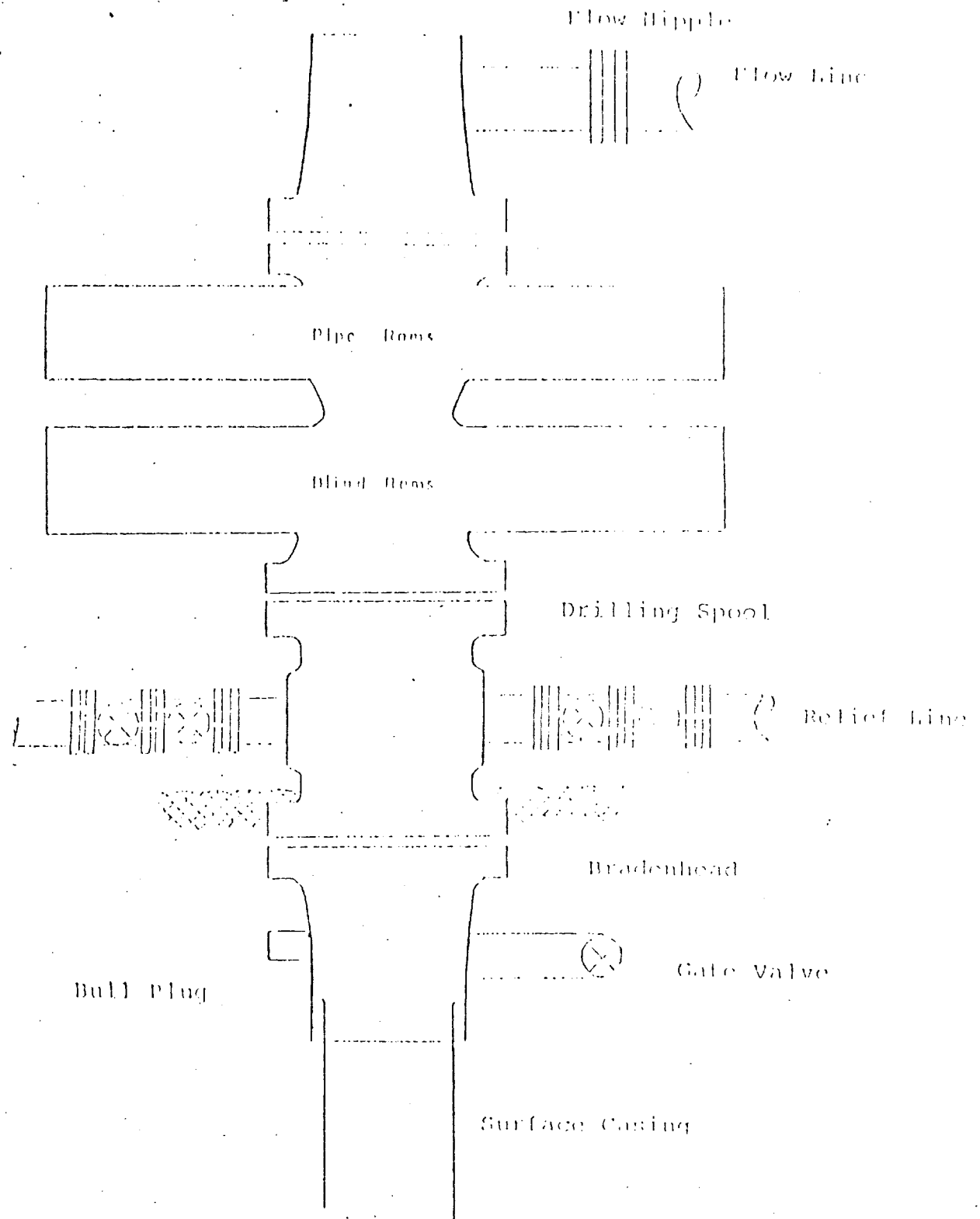
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 96 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 (273 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 316 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (440 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



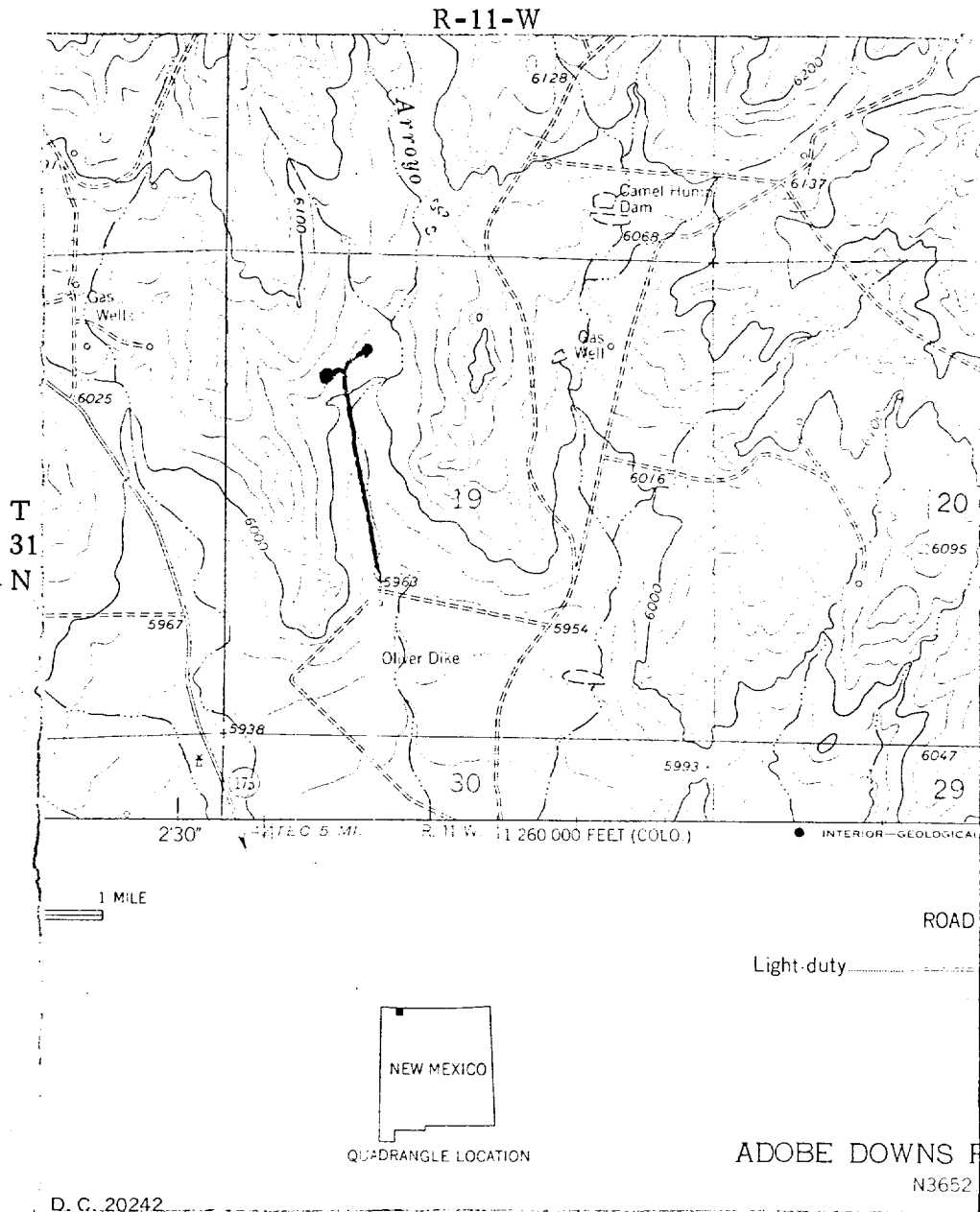
					ENG. REC.		DATE		<div style="text-align: center;"> <b>El Paso Natural Gas Company</b> </div> <div style="text-align: center;"> <b>TYPICAL LOCATION PLAT FOR</b>  <b>MESAVERDE OR DAKOTA DRILL SITE</b> </div>																																																		
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Series 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  
 Elliott A #1A  
 NW 19-31-11



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS	=====
EXISTING PIPELINES	+++
EXISTING ROAD & PIPELINE	+++=
PROPOSED ROADS	=====
PROPOSED PIPELINES	+++
PROPOSED ROAD & PIPELINE	+++=

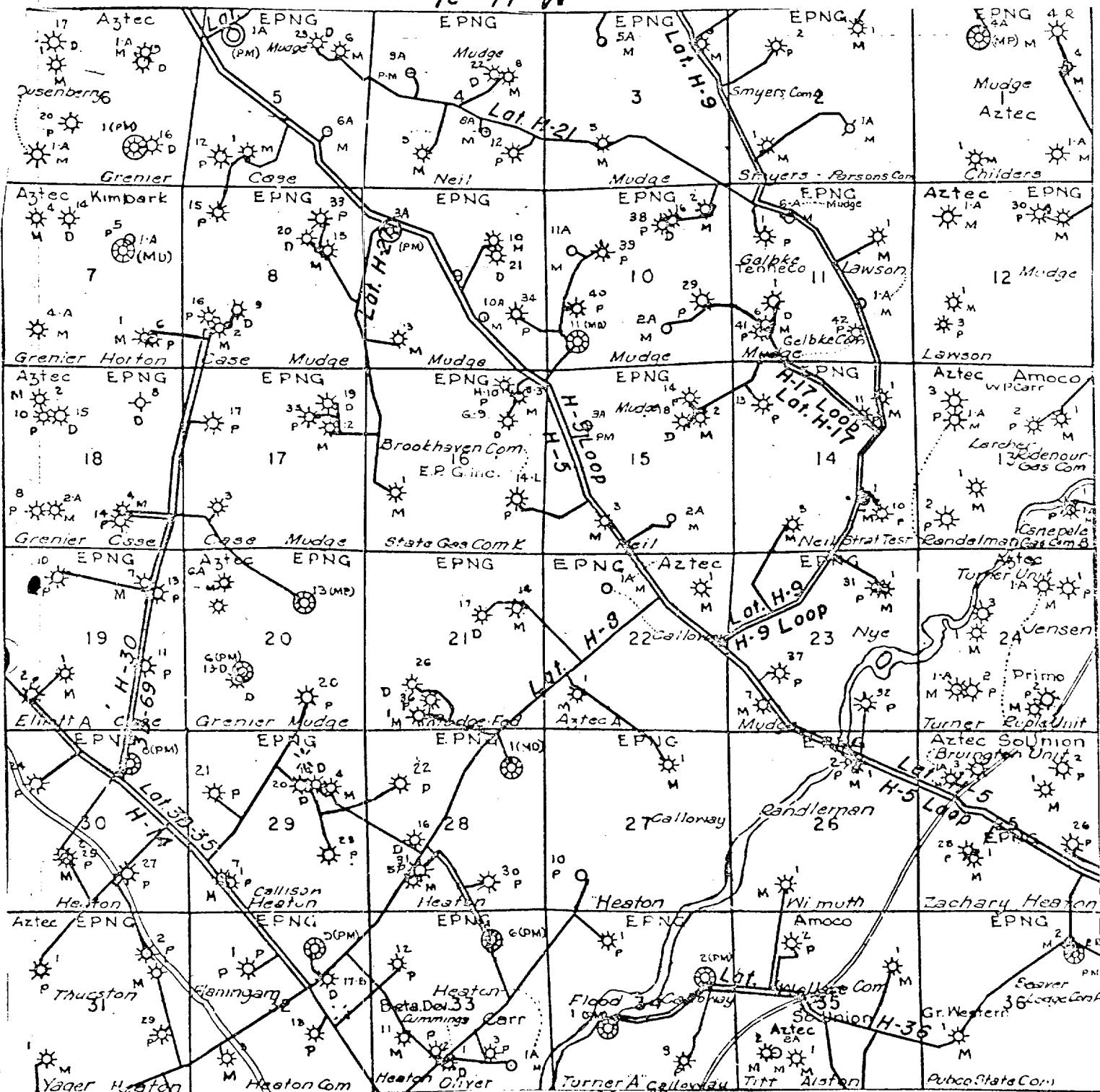
# EL PASO NATURAL GAS COMPANY

Elliott A #1A

NW 19-31-11

R-11-W

T  
31  
N



Map #2

Proposed Location