		TED STATES	(Other instru- reverse	side)	Budget Bureau No. 42-B142 O - O45 - 23/9/ LEASE DESIGNATION AND BEBIAL NO	
	GEOLO	OGICAL SURVEY			SF 078095	
APPLICATION	N FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG	BACK ^{6.}	IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🞦	DEEPEN	PLUG BA	. ск 🗌 ^{т.}	UNIT AGREEMENT NAME	
WELL W	ELL OTHER		SINGLE MULTI ZONE ZONE	<u> </u>	FARM OR LEASE NAME	
2. NAME OF OPERATOR El Paso Nat	ural Gas Cor	npany		I	WELL NO.	
3. ADDRESS OF OPERATOR				ł	4A	
	Farmington,	, NM 87401 Id in accordance with any	- State requirements *)		Brimanus pobilis Gibiafis Blanco Mesa Verde	
At proposed prod. zon	1450'N, 11	-	State requirements.")	11.	SEC., T., B., M., OR BLK. SAND SURVEY AT ANTA-N, R-1 SEC. IS, I-31-N, R-1	
At proposed prod. zon	same				NMPM	
ll miles No	orth of Azteo	-			COUNTY OF PARISH 13. STATE San Juan NM	
 DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM PROP 	r INE, FT. 2. unit line, if any)	1000'	NO. OF ACRES IN LEASE 1900.14	TO THIS V	160.00 2-320	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	2000 '	PROPOSED DEPTH 5490	Rotary	R CABLE TOOLS	
21. ELEVATIONS (Show who 6225 GR	ether DF, RT, GR, etc.)			2	2. APPROX. DATE WORK WILL START	
23.		PROPOSED CASING A	ND CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#	200		ft. to circulate ft.to cover Ojo A	
6 1/4"	4 1/2"	10.5#	3045-5490'		ft.to fill to 319	
Pictured Cl A 3000 psi blind and p			fracture the able gate pre- or blow out p		erde and 11978 AUG 11978 n on Hols West .3	
The E/2 of	Section 18	is dedicated	to this well	•	анд ¹ .	
one. If proposal is to preventer program, if any	drill or deepen direction				re zone and proposed new productiv I true vertical depths. Give blowor	
signed	9. Duic	0	Drilling	Clerk	DATE July25,1978	
(This space for Feder	ral or State office use)	·····				
PERMIT NO.			APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·		
APPROVED BY		TITLE			DATE	

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*See Instructions On Reverse Side

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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 (SF078095) CASE hΑ Unit Letter Section Township Range County 18 Η 31N 11W San Juan Actual Footage Location of Well: 1/150 feet from the North 1175 line and feet from the East line Ground Level Elev. PooBlanco Pictured Cliffs Ext. Pictured Cliffs Dedicated Acreage: 6225 Mesa Verde Blanco Mesa Verde 160.00 & 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 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. 1000 Name Drilling Clerk 11751 Position l Paso Natural Gas Co. uly 25, SF-078095 1978 Date Sec 18 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. #4 \odot Date Surveyed, June 20, Registered Pro and/or Land NY MESS Certificate Vacation

660

90

1320

1650

1980

2310

2640

2000

1500

1000

500

3950



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

Multi-Point Surface Use Plan Case #4A

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 Aztec Ditch.
- 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 sandstone ledges and rolling hills 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.

Walker

D. C. Walker Project Drilling Engineer

Operations Plan Case #4A

- I. Location: 1450'N, 1175'E, Section 18, T-31-N, R-11-W, San Juan County, NM Field: Blanco MV & Blanco PC Ext. Elevation: 6225'GR
- II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2995 '
			Ojo Alamo	1030'	Mesa Verde	4310'
			Kirtland	1170'	Menefee	4635 '
			Fruitland	2465 '	Point Lookout	5040'
			Pic.Cliffs	2825 '	Total Depth	5490'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4300', 4625', 5030' 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 3195'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3195'	7"	20.0# K-55
		6 1/4"	3045-5490'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

4 l/2" liner - 4 l/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).

- C. Tubing: 5490' 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. 2995' of 1 1/4", 2.33# J-55 IJ tubing with a common pump seatin nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

Operations Plan - Case #4A Case #4A

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 228 _____ 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 (488 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 288 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (400 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.





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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 Case #4A (PM) NE 18-31-11



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS		1
EXISTING	PIPELINES	-+	⊢
EXISTING	ROAD & PIPELIN	⊡ ⊷ ∤ ∳•	b -1-1
	ROADS		
PROPOSED	PIPELIMES		
PROPOSED	PIPELINES ROAD & PIPELIN	E	- -

T 31 N





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