SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

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5.	LEASE	DESIGNA	TION	AND	SERIA	L N	0.

GEOLOGICAL SURVEY					SF 078498					
APPLICATION	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
1a. TYPE OF WORK				<u> </u>	<u> </u>	- CIV				
DR	DRILL 🖾 DEEPEN 🗌 PLUG BAC			CK 🗆	7. UNIT AGREEMENT NAME					
b. TYPE OF WELL OIL G	A. 17			_			San Juan 28-7 Unit			
WELL W	AS OTHER		SINGLE ZONE	k	MULTIPI ZONE	rie 🗌	8. FARM OR LEASE NAME			
2. NAME OF OPERATOR	_						San Juan 28-7 Unit			
EL Paso Nat	tural Gas Com	npany		····			9. WELL NO.			
**	Down in at an	3734 0746	. 7				252			
4. LOCATION OF WELL (R	, Farmington,	NM 8740		requirement	a * \		10. FIELD AND POOL, OR WILDCAT			
At surface	790'N, 18		m any butte	requirement	a. ,		Basin Dakota 11. sec., T., E., M., OR BLK.			
44 222224 2224 222		30 W					Sec. 32, T-28-N, R-7-W			
At proposed prod. zon	ie					ĺ				
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				NMPM 12. COUNTY OR PARISH 13. STATE			
15 miles SI	E of Abe's St	ore, NM					Rio Arriba NM			
15. DISTANCE FROM PROPO LOCATION TO NEARES?	OSED*		16. No. of	NO. OF ACRES IN LEASE 17. NO. O			F ACRES ASSIGNED			
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)		771	Unit		TO TE	118 WELL (U/315.36)				
18. DISTANCE FROM PROP	OSED LOCATION*		19. PROPOS	ED DEPTH		20. вотав	RY OR CABLE TOOLS			
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1700			7070' Rotar			1				
21. ELEVATIONS (Show whether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*					
6036'GR	6036'GR									
23.	I	PROPOSED CASIN	G AND CE	MENTING 1	PROGRA	м				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот	SETTING DEP	тн		QUANTITY OF CEMENT			
13 3/4"	9 5/8"	32.3#) '	224 c	u.ft. to circulate			
8 3/4"	7."	20.0#				cu.ft.to cover Ojo Alam				
6 1/4"	4 1/2"line	r 11.6#-1	.0.5#	7070)'		cu.ft.to fill to 2875'			
	•	ı	ı			ł				
Colootical	-									
serectivery	periorate a	nd sandwa	ter fr	acture	the	Dako	ta formation.			
A 3000 psi	WP and 6000	ngi test	double	αa+o	nrov	ontor	equipped with			
blind and r	pipe rams wil	1 be used	for b	low on	prev t pr	event	ion on this well.			
F	- <u>-</u>				P.	C V C11 C	TON ON CHILD WELL.			
This gas is	dedicated.									
							I Bum.			

The W/2 of Section 32 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive one and proposed few 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.

(This space for Federal or State office use)

PERMIT NO.

TITLE ____

FEB 2 1978

*See Instructions On Reverse Side

APPROVAL DATE

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

Quite rains

		All distances must	be from the ou	ter boundaries of	the Section	١.	
Operator El Paso Na	tural Cas Com	nany	Lease	Tuan 28 5	7 1154 (SE_078\108	Well No.
El Paso Natural Gas Company Unit Letter Section Township							3) 252
C	32	28N	F.Gil	7W	County	Arriba	
Actual Footage Loca				<u> </u>	1 1(10	AILIUA	
790		orth line o	md 1850) fee	et from the	West	line
Ground Level Elev. 6036	Producing For Dakota	mation	Pool	Basin D	akota	/	Dedicated Acreage 315.36
 If more the interest and If more that dated by continuous Yes If answer in this form if 	an one lease is d royalty). In one lease of disommunitization, u No If and s "no," list the dispecsory.)	ifferent ownership nitization, force-po nswer is "yes," typ owners and tract do	well, outline is dedicated oling. etc? e of consol	e each and ide d to the well, idation	entify the have the Unit	ownership t interests of ization en consolid	hereof (both as to working
forced-pool sion.	ing, or otherwise)	or until a non-stand	dard unit, e	liminating suc	consolida ch interes	ted (by com ts, has been	nmunitization, unitization, approved by the Commis-
1850	5F-078498	771'				Name Drilli Position El Pas Company Januar Date I hereby shown on notes of under my is true of knowledge Novemb	per 27, 1977 Professional Engineer
		M				Fred E	Kerr Jr.
	30 1330 1660 1000	2310 2640 2	000 1500	1000 -		3950	





Multi-Point Surface Use Plan San Juan 28-7 Unit #252

- 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 Blanco water hole.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- Methods of Handling Waste Materials All garbage and trash 7. materials will be put into a burn pit shown on the attached Location Plat No. 1. 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 #1 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 brown (Federal Standard #595-30318)
- 11. Other Information The terrain is rolling hills and high sand stone ledges covered with pinon and cedar trees. Cattle occasionally graze 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.

January 31, 1978

D. Ř. Read

Division Drilling Engineer

Operations Plan San Juan 28-7 Unit #252

I. Location: 790'N, 1850'W, Section 32, T-28-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota <u>Elevation:</u> 6036'

II. Geology:

Α.	Formation Tops:	San Jose Ojo Alamo Kirtland Fruitland Pic.Cliffs	surface 1712' 1813' 2275' 2575'	Menefee Point Lookout Gallup Greenhorn Graneros	4352' 4783' 5990' 6720' 6781'
		Pic.Cliffs	2575 '		6781 '
		Lewis	2673'	Dakota	6900 '
		Mesa Verde	4246'	Total Depth	7070 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5083', 6290', 6781', 6900' 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 2875'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	<u>Casing Size</u>	Wt.&Grade
		13 3/4" 8 3/4" 6 1/4" 6 1/4"	200' 2875' 6500' 7070'	9 5/8" 7" 4 1/2" 4 1/2"	32.3# H-40 20.0# K-55 10.5# K-55 11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig.102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" production casing Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 7070' of 1 1/2", 2.9#, J-55, 10rd 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: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

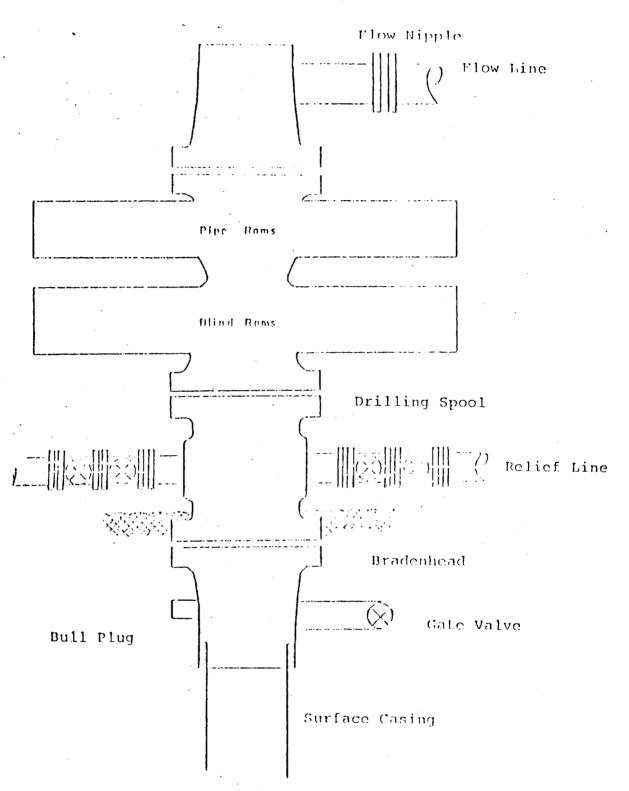
V. Cementing:

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.

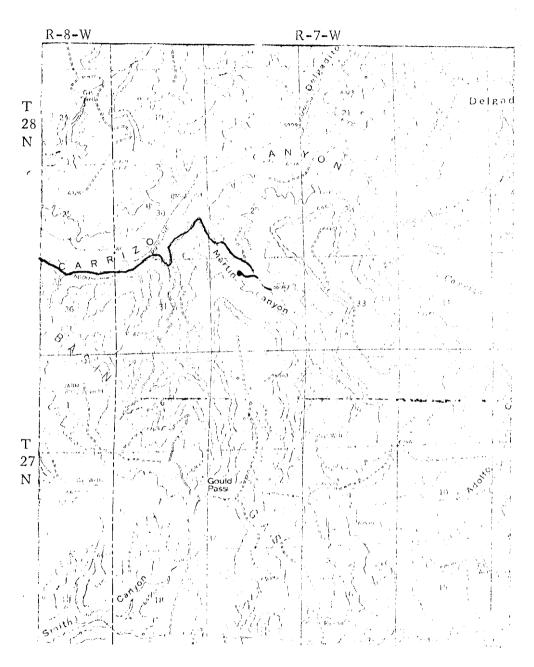
7" intermediate casing - use 88 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (262 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" production casing - precede cement with 40 bbls. of gel water (4 sks. gel) cement with 293 sks. of Class "B" with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7, followed by 100 sks. of Class "B" with 1/4# fine tuf-plug per sack and 0.4% HR-7 (645 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.

130 Compary woils from wellhood to Eloure Line Fill Get El Paso Natural 6us For Mose Verde cut 10 LC $\frac{1}{3}$. 10, ار ما دور اس ال 61.5.3 / sak Drive Warks 15011 Ausoria L.Y. Typical Location ,381 100 ر مر کز ام 2



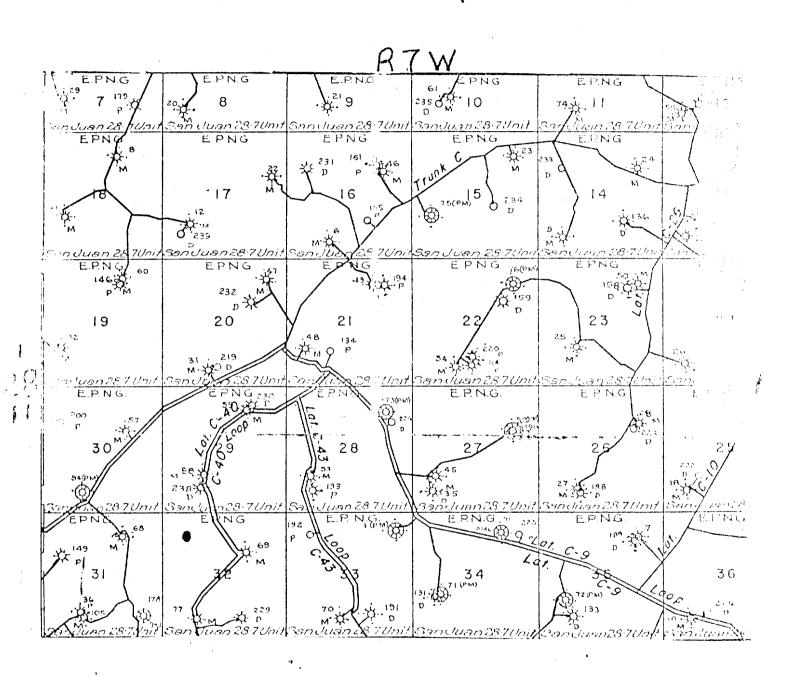
Scries 900 Double Gate BOF, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



MAP #1

LUCEND OF RIGHT-OF-WAYS

EXISTING	F 0AP6				
EXISTING	PETELIN		-+		
EXISTIES	ROND - MITTELI	[[] - }	· ‡ ··	i.	
PROPOSED	P.CVD3				•
PROPOSSIO	TERRITORS:	-	. 4-	-+-	
PROPOST	TIME THERE	[S] —	-		



MAP #2

Proposed Location •