SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

HNITED STATES

		IT OF THE IN	ITER	IOR	reverse s	ide)	5. LEASE DES	39-2	322	29
	GEOL	OGICAL SURVE	Y				SF 079		AD BEATAL I	NO.
APPLICATION	I FOR PERMIT	TO DRILL, D	EEPE	N, OR	PLUG E	ACK	6. IF INDIAN		OR TRIBE NA	ME
1a. TYPE OF WORK							7 777			
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b. TYPE OF WELL OIL CA				NGLE X	MULTIP	·LE	San Ju			
WELL W.	ELL C. OTHER		zo	NIC LA	ZONE		San Ju			i +-
El Paso Nat	ural Gas Co	mpanv					9. WELL NO.			
. ADDRESS OF OPERATOR		1 1					_ 29A		_	
PO Box 289,	Farmington	, NM 8740	l				10. FIELD AN	D POOL, OR	WILDCAT	
. LOCATION OF WELL (Re	eport location clearly as	nd in accordance with	any S	tate requiren	nents.*)		Blanco	Mesa	Verde	<u> </u>
At Bullace	1100'N, 9	40'W					11. SEC., T.,	3., M., OR BI	LK.	
At proposed prod. zone	same						Sec. 18	,T-28	^ N,R−5	5-W
4. DISTANCE IN MILES A		AREST TOWN OR POST	OFFICE	•			12. COUNTY O	R PARISH	13. STATE	
	outhwest of						Rio Ar		NM	
5. DISTANCE FROM PROPO	SED*		-	OF ACRES I	N LEASE). OF ACRES ASSIG	1		
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	940'		un	it	то	THIS WELL	N	320.00)
(Also to nearest drig 8. DISTANCE FROM PROPE	OSED LOCATIONS		19. PRO	POSED DEPT	H.	20. ROTARY OR CABLE TOOLS				
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED, S LEASE, FT.	2400		61	.59'	Rota	ary			
. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	<u> </u>			······································	1	22. APPROX	DATE WOR	K WILL STA	RT*
3.		PROPOSED CASING	G AND	CEMENTIN	NG PROGRA	AM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	т	SETTING	DEPTH	1	QUANTITY	OF CEMENT		
13 3/4"	9 5/8"	36.0#		2	00'	224	4 cu.ft. to circulate			
8 3/4"	7"	20.0#			15'		cu.ft.to			
6 1/4"	4 1/2"lin	er 10.5#		3765-	6159'		cu.ft.to			
A 3000 psi blind and p	perforate WP and 6000 ipe rams wi	psi test o	loub	le gat	e prev	vente	er equipp	ed wi this	th well.	
This gas is	dedicated.						NOV 0	2 1979	L.	
The N/2 of	Section 18	is dedicate	ed t	o this	well.		S. GEOLOGI	CAL SUR	vE/s	
A ABOVE SPACE DESCRIBE one. If proposal is to de reventer program, if any	Irill or deepen direction									
1.	7						AME STATE OF THE S	1 24		
SIGNED ILAMA	Trans	seld TITL	E	Dr	illing	g Cle	erk DATE	10-	18 79	
(This space for Feder	al or State office use)					····		G 197	3	

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _

*See Instructions On Reverse Side

APPROVAL DATE

PERMIT NO. .

TITLE

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LINERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

1980 Form C-102 Kevised 10-1-78

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

Operator					Lease							Well No.	······································
EL PASO N	ATUR	AL GAS COM	PANY		SA	N JUAN	AN 28-5 UNIT		(SF-079250)		29A	-	
Unit Letter	Secti		Township			ange		County					
D	1	18	281	1		5W		Rio	Arr	iba			-
Actual Footage Loc	ation	of Well:										_	
1100	feet	from the Nor	·th	line and	94)	feet	from the		West		line	
Ground Level Elev.		Producing Fore	nation		Pool	-					Dedica	ited Acreage:	
6634		Mesa Ver	rde			Bla	nco Me	sa Ver	rde		320	.00 -	Acres
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

San Juan 28-5 Unit #29A

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.

and the property of the second
- 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 28-6 Water Well.
- 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,

NOV 02 1979

P. S. GEOLOGICAL STRVE

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 sagebrush flats with sagebrush growing. Cattle, deer and horses are seen occasionally 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.

T. A. Aimes

Project Drilling Engineer

BIVE

NOV 02 1979

11. S. GEOLOGICAL SURVEY

Operations Plan San Juan 28-5 Unit #29A

I. Location: 1100'N, 940'W, Section 18, T-28-N, R-5-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6634'GL

II. Geology:

Α.	Formation To	ps: Surface	San Jose	Lewis	3714'
	•	Ojo Alamo	2872	' Mesa Verde	5319'
		Kirtland	2950	' Menefee	5416'
		Fruitland	3284	' Point Lookout	5709 '
		Pic Cliff	s 3555	' Total Depth	6159'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5310', 5405', 5700' 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 3915'. 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"	36.0 # K-55
	8 3/4"	3915 '	7"	20.0# K-55
	€ 1/4"	3765-61591	4 1/2"	10.5# K-35

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 flapper type float collar

- C. Tubing: 6159' 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" $2000 \times 9 \times 5/8$ " casing head. 10" 2000×6 " 2000×10 " 10



NOV 02 1979

II. S. GEOLOGICAL SURVEY

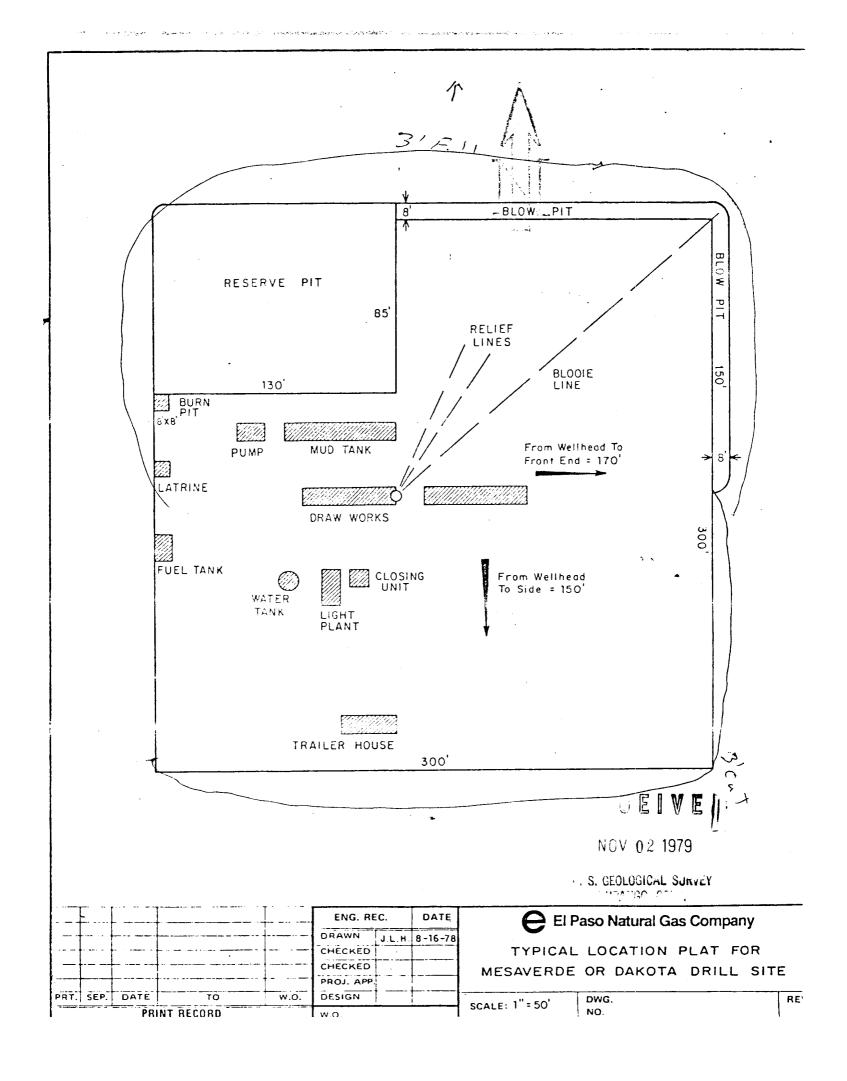
V. Cementing:

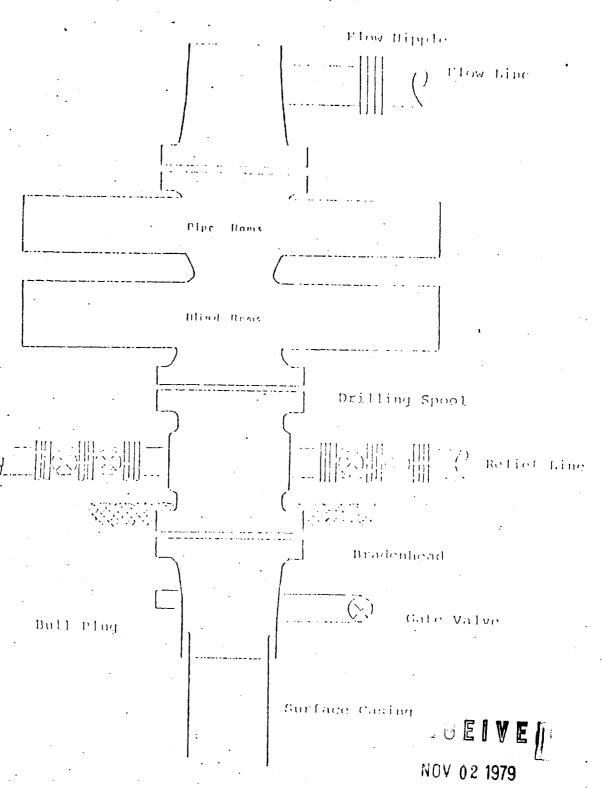
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 72 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) rollowed by 100 sks. of Class "B" with 2% calcium chloride (235 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.

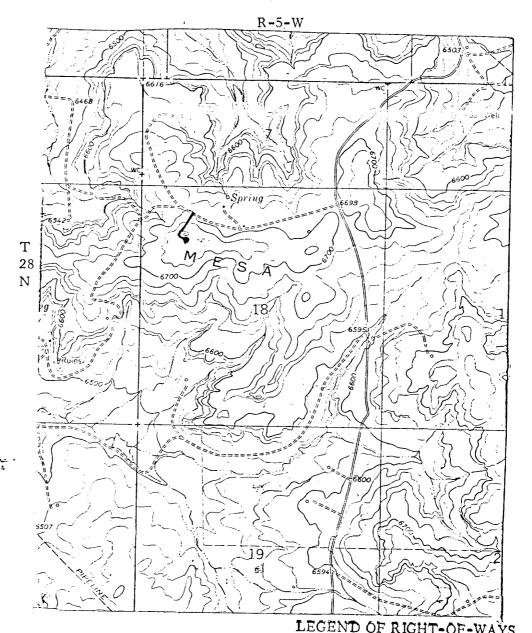
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 300 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (418 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.







Series 900 Double Gate BOP, rated B. S. GEOLOGICAL SURVEY 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

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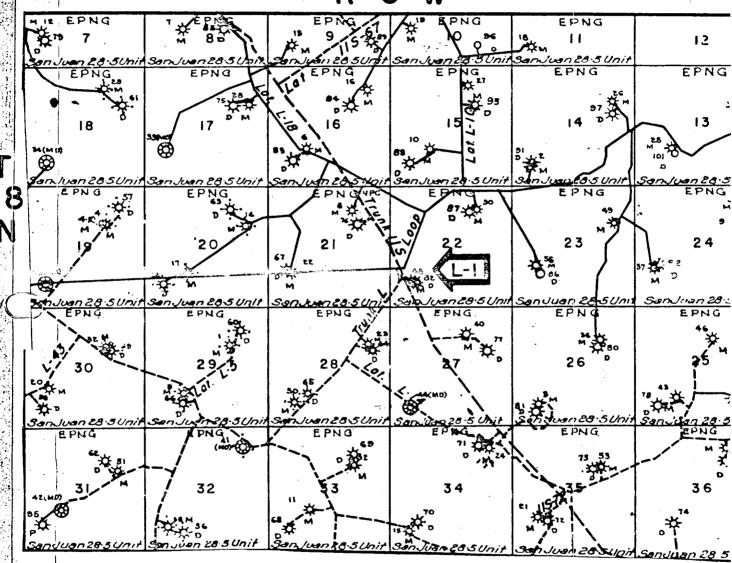
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El Paso Natural Gas Company San Juan 28-5 Unit #29A NW 18-28-5

R-5-W



MAP. 2-

Proposed Location

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S. GEOLOGICAL SURVEY