SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

	<u>3</u> 0	-039-22231	,
i	5. LEAS	BE DESIGNATION AND SERIAL NO.	
	SF	079519A	

1a. TYPE OF WORK	1 TOK TEKNIN	TO DRILL, I	DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
	ILL 🖾	DEEPEN [7	DI LIG BAC	~	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	DELFEIN	N 🗆 PLUG BACK 🗌			San Juan 28-5 Unit			
	AS X OTHER			INGLE MULTIP	LE K	S. FARM OR LEASE NAME		
2. NAME OF OPERATOR						San Juan 28-5 Unit		
El Paso Na	-	9. WELL NO.						
3. ADDRESS OF OPERATOR		-				17A (PM)		
	, Farmington					10 MELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (R At surface	eport location clearly ar	d in accordance wit	h any S	tate requirements.*)		Blanco Mesa Verde		
)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA							
At proposed prod. zon	Sec.20,T-28-N,R-5-W							
	same			=1		NMPM		
4. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE	E*		12. COUNTY OR PARISH 13. STATE		
4 miles so	uth of Gober	nador, NM	10 No	O. OF ACRES IN LEASE	1 10 310 00	Rio Arriba NM		
LOCATION TO NEAREST PROPERTY OR LEASE I	r		10. NO	J. OF ACRES IN LEASE		ACRES ASSIGNED IS WELL		
(Also to nearest drlg	g. unit line, if any)	850 '		unit		160 5 320.00		
8. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,		L	ROPOSED DEPTH	20. ROTAR). ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		2000	<u>'</u>	6230'	Rotar			
1. ELEVATIONS (Show who	ether DF, RT, GK, etc.)					22. APPROX. DATE WORK WILL START*		
6739 ' GL 3.		DROBOSER GASH		OEMENWING PROGRA				
	T			CEMENTING PROGRA	i.M.			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот ———	SETTING DEPTH		QUANTITY OF CEMENT		
		36.0		200'	224 c	224 cu.ft. to circulate		
8 3/4"	7"	20.0	-			u.ft.to cover Ojo A		
6 1/4"	4 1/2"lin	er 10.5	#	3780-6230'	427 c	u.ft.to circ.liner		
Selectivel		and ander						
blind and	WP and 6000	on.) psi test .ll be used	ದೆಂಬ		venter	equipped with ion on this well.		
This gas i The S/2 of N ABOVE SPACE DESCRIBE one. If proposal is to preventer program, if any	WP and 6000 pipe rams wis dedicated. Section 20 proposed Program: If drill or deepen direction y.	is dedicate proposal is to deep	dou d fo ted pen or p	ble gave present blow out provided to this well	venter revent 6 1970 recent produced	equipped with ion on this well. EVE OV 02 1979 Cive zone and proposed new productive and true vertical depths. Give blowout		
This gas i The S/2 of N ABOVE SPACE DESCRIBE One. If proposal is to reventer program, if any	WP and 6000 pipe rams wis dedicated. Section 20 PROPOSED PROGRAM: If drill or deepen direction years.	is dedicate proposal is to deep	dou d fo ted pen or p	to this well on subsurface locations an	venter revent 6 1970 recent produced	equipped with ion on this well. WE OV 02 1979 Cities some and proposed new productive and true vertical depths. Give blowout k 1.0-18-79		
This gas i The S/2 of N ABOVE SPACE DESCRIBE One. If proposal is to reventer program, if any	WP and 6000 pipe rams wis dedicated. Section 20 proposed Program: If drill or deepen direction y.	is dedicate proposal is to deep	dou d fo ted pen or p	to this well on subsurface locations an	venter revent 6 1970 recent produced	equipped with ion on this well. WE OV 02 1979 Cities some and proposed new productive and true vertical depths. Give blowout k 1.0-18-79		
This gas i The S/2 of N ABOVE SPACE DESCRIBE DOR. If proposal is to reventer program, if any (This space for Feder	WP and 6000 pipe rams wis dedicated. Section 20 proposed Program: If drill or deepen direction y.	is dedicate proposal is to deep	dou d fo ted pen or p	to this well blug back, give data on pronsubsurface locations and	venter revent 6 1970 recent produced	equipped with ion on this well. WE OV 02 1979 Cities some and proposed new productive and true vertical depths. Give blowout k 1.0-18-79		

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 1980 Form 8-102 Key1sed 10-1-78

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

Operator		Lease		Well No.					
EL PASO NATURAL GAS	3 COMPANY	SAN JUAN 28-5 I	JNIT (SF-079519-A)	17A					
Unit Letter Section	Township	Ficunça	County						
P 20	28N	5W	Rio Arriba						
Actual Footage Location of Well:									
980 feet from the		850 _{feet}	from the East lin	ne					
Ground Level Elev. Produ	icing Formation Pictured	PooUndesignated P	ictured Cliffs Dedicate	ed Acreage;					
6739 Me	esa Verde - Cliffs	Blanco Me	esa verde 160.0	& 320.0 Acres					
1. Outline the acreage	dedicated to the subject w	ell by colored pencil or	hachure marks on the plat b	oelow.					
_	•	•	•						
2. If more than one lea	ase is dedicated to the wel	l, outline each and iden	tify the ownership thereof (l	ooth as to working					
interest and royalty).			•	Ö					
3. If more than one leas	se of different ownership is	dedicated to the well, h	ave the interests of all owr	ners been consoli-					
dated by communitize	ation, unitization, force-pool	ing. etc?							
			77 1 1 - 1 1						
Yes No	If answer is "yes," type o	of consolidation	Unitization						
				•					
It answer is "no," li	st the owners and tract desc	criptions which have act	ually been consolidated. (Us	se reverse side of					
this form if necessary									
No allowable will be	assigned to the well until al	l interests have been co	onsolidated (by communitiza	ition, unitization,					
	erwise) or until a non-standar	d unit, eliminating such	interests, has been approve	ed by the Commis-					
sion.									
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+-		-NOV-02 1979 -	Drilling Cle	erk					
1	·		Position						
	4:	S (ECLOPICAL SUNVEY	El Paso Nati	ural Gas Co.					
		\mathcal{J}_{1} .	Company						
 		Page 1	October 18,	1979					
	And the second	inter ^{actor}	Date						
	Sec.	i !							
	W 20								
!	M 20	1	I hereby certify the	hat the well location					
!		1	shown on this plat	was plotted from field					
		1	notes of actual sur	rveys made by me or					
₹	#17	i	Mikl	on, and that the same					
AD 000536			KHZI	t to the best of my					
SF-080516-A	, , (1)	SF-07,9519-A	knowledge and belie	ef.					
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澗		1	Date Surveyed	<u> </u>					
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

#### Multi-Point Surface Use Plan

LANCE CONTRACTOR OF THE STATE O

#### San Juan 28-5 Unit #17A

- 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.
- Location and Type of Water Supply Water for the proposed project 5. 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

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 rolling flats with sagebrush growing. Cattle and deer are occasionally seen 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.

L. A. Aimes

Project Drilling Engineer

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# Operations Plan San Juan 28-5 Unit #17A

I. Location: 980'S, 850'E, Section 20, T-28-N, R-5-W, Rio Arriba County, NM

Field: Undes. PC & Blanco MV Elevation: 6739'GR

### II. Geology:

Α.	Formation T	ops:	Surface	San	Jose	Lewis	3730 <b>'</b>	ı
			Ojo Alamo		2900'	Mesa Verde	5285 <b>'</b>	l
			Kirtland		3065'	Menefee	54 <b>45 '</b>	!
			Fruitland		3340'	Point Lookout	5780 <b>'</b>	1
			Pic.Cliffs		3605'	Total Depth	6230'	!

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

I-ES and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 5275', 5435', 5770' 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 3930'. 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"	36.0# K-55
			8 3/4"	3930 <b>'</b>	7"	20.0# K-55
			6 1/4"	3780-6230'	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 flapper type float collar

- C. Tubing: 6230' 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.

  3780' of 1 1/4", 2.33#, J-55 IJ tubing with a common pump seating 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" x 7" quaing hanger, 10" 2000 x 6" 2000 dual tubing head.

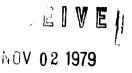
NOV 02 1979

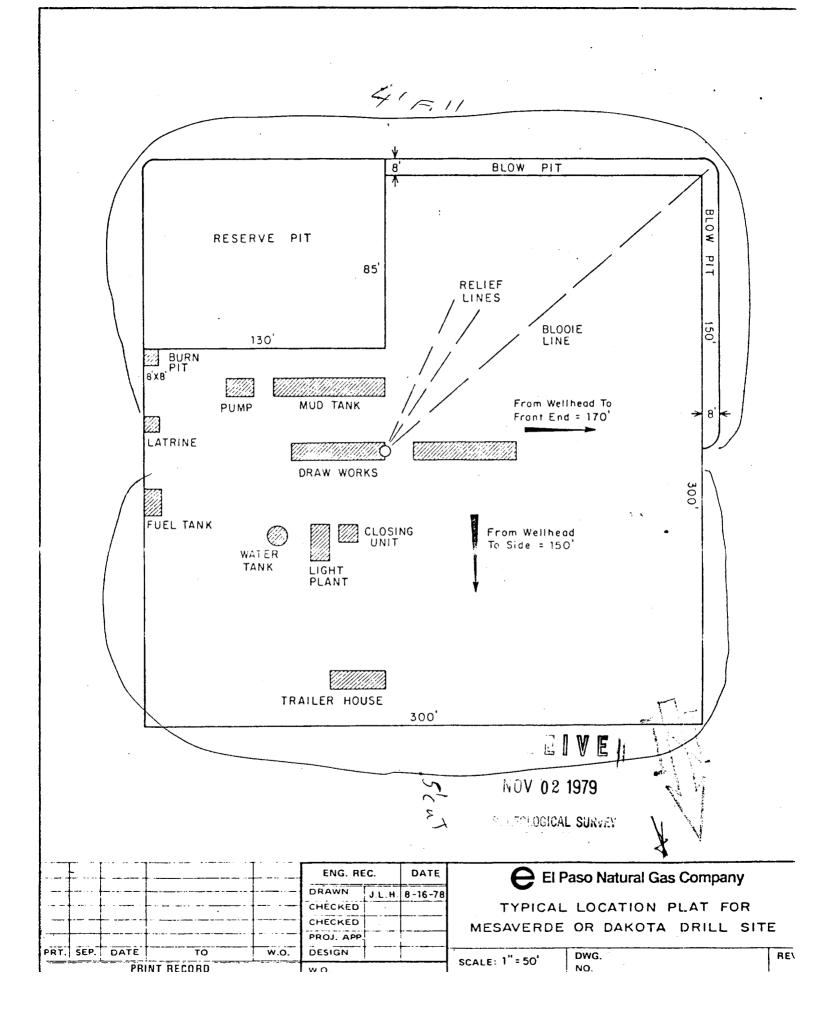
### V. Cementing:

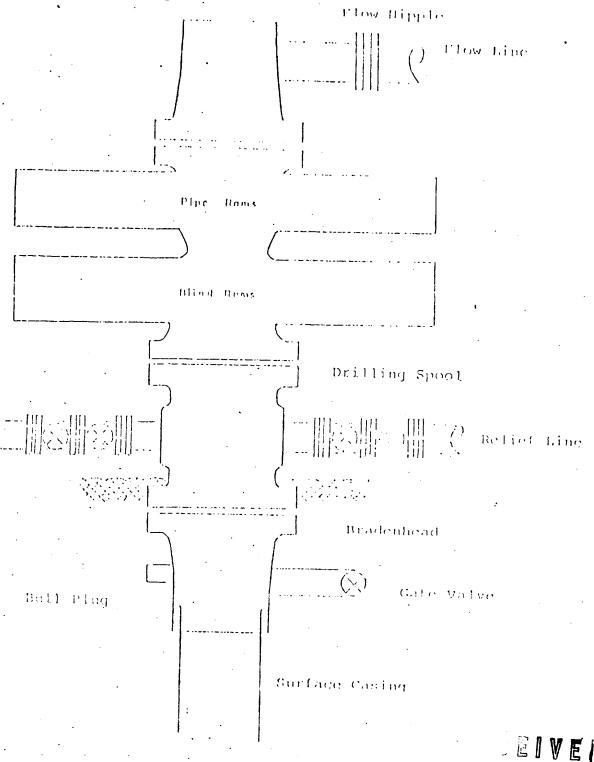
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 70 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 (231 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 307 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (427 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



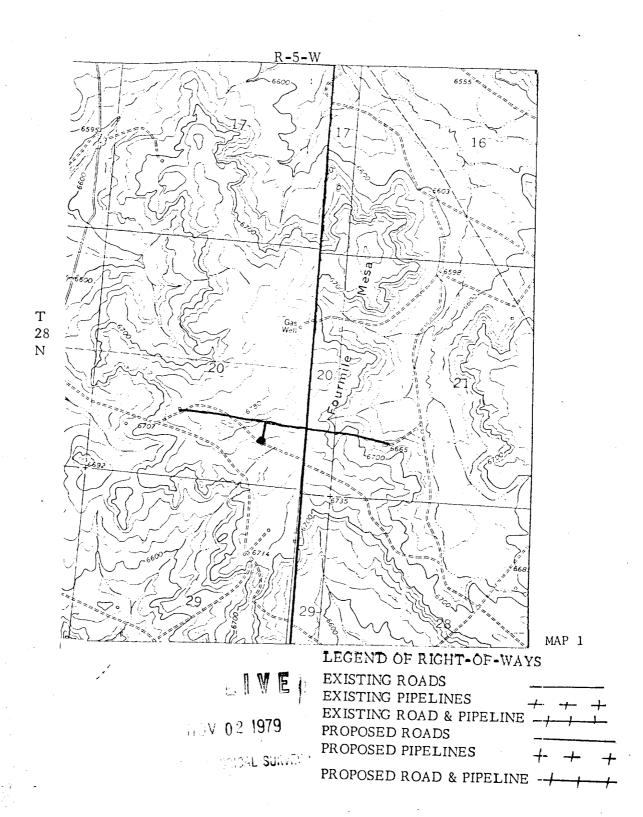




Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

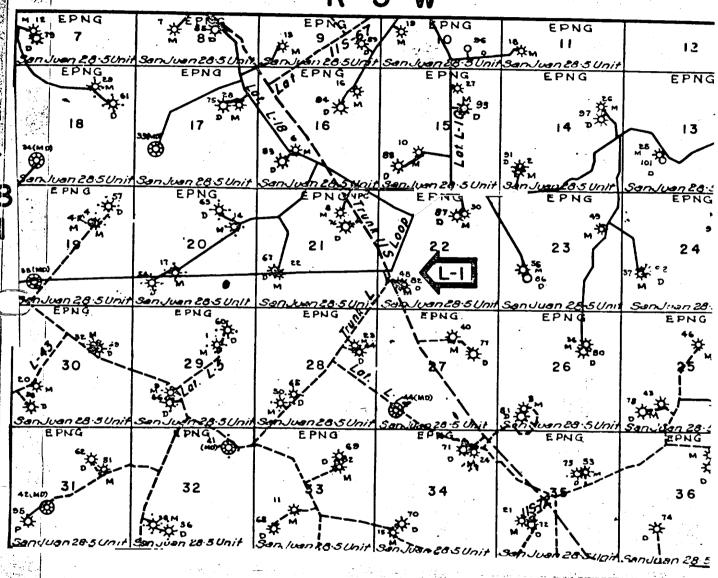
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S. 030 OGICAL SURVEY



El Paso Natural Gas Company San Juin 28-5 Unit #17A SE 20-28-5-

R-5-W



MAP 2

CIVE

Proposed Location

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S. CEOLOGICAL SURVEY