### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED	STATE	ES
DEPARTMENT OF	THF	INTERIOR

Budget Bureau No. 42-R1425.
30-039. 02205
5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY				CH OOOFICE				
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					SF 080516A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WORK								
b. Type of well	ILL 🔛		DEEPEN [		PL	UG BA	CK 🔲 🏻	7. UNIT AGREEMENT NAME
our 🗀	VELL X	OTHER			INGLE X	MULTIP ZONE	LE _	San Juan 28-5 Unit 8. FARM OR LEASE NAME
								San Juan 28-5 Unit -
El Paso Na 3. Address of Operator	tural (	ias Com	pany					9. WELL NO.
PO Box 289 4. LOCATION OF WELL (F	, Farmi	ington,	NM 8740	) <u>í</u>				10. FIELD AND POOL, OR WILDCAT
At surface				h any :	State requireme	ents.*)		Blanço Mesa Verde
At proposed prod co		O'N, 10	10'W				-	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zoi	<u> </u>	2						Sec. 20, T-28-N, R-5-W
14. DISTANCE IN MILES	AND DIRECTIO	N FROM NEARI	ST TOWN OR POST	OFFIC	E*			NMPM 12. COUNTY OR PARISH   13. STATE
3.5 miles	southwe	est of (	Gobernado	r C	amp. NM			
LOCATION TO NEARES	osed* T		1		OF ACRES IN	LEASE	17. No. of	KIO Arriba NM ACRES ASSIGNED IS WELL
(Also to nearest dri	g. unit line, ii	fany)	1010		un:	it	10 111	W 320.00
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	OSED LOCATION	)n* Pleted,	-	19. PE	OPOSED DEPTH		f	OR CABLE TOOLS
21. ELEVATIONS (Show wh		GR. etc.)	2200		61	30'	Rotary	
6637 <b>'</b> GL	,,							22. APPROX. DATE WORK WILL START*
23.		PR	OPOSED CASIN	G ANI	CEMENTING	PROGRA	<u></u>	
SIZE OF HOLE	SIZE OF	CASING	WEIGHT PER FO	от	SETTING D	EPTH		QUANTITY OF CEMENT
13_3/4"	9.5/	′8."	36.0#		2(	00'	224 C1	1.ft. to circulate
<del>8 3/4"</del>	<del>7"</del>		20.0#		_ ,	00'		1.ft.to cover Ojo Alamo
6 1/4"	4 1/	2"liner	10.5#		3740-6	5130'	416 cu	.ft.to circ.liner
Selectively	y perfo	rate an	ıd sandwa	ter	fractur	e the	. Mesa	Verde formation.
A 3000 psi blind and p	WP and pipe ra	6000 pms will	osi test . be used	doul foi	ole gate blow o	prev out pr	enter eventi	equipped with on on this well.
This gas is	s dedic	ated.				-	) <sub>(** -2</sub> ,	LIVE L
mb - 11/2 - 6		20.		<u>.</u> .		G/Z		2 6 1979
The N/2 of	PROPOSED PP	n ZU 15	dedicate	ed t	o this	well 2	5/57 50	CHOAL SURVEY
	or acceci	directionally	, give pertinent o	data or	ug back, give d subsurface lo	ata on pre	sent'product measured a	ive son and proposed hew productive nd true vertical depths. Give blowout
ereventer program, if any		1					<u> </u>	
SIGNED .	J. Si	used	TITLI	c	— Dri	<del>lling</del>	Clerk	- DATE <u>10-18-79</u>
(This space for Feder	al or State of	fice use)		*****				10 10 75
PERMIT NO.					DDDAFI' ~			
				_ '	PPROVAL DATE.	-		
APPROVED BY			TITLE	:				DATE
CONDITIONS OF APPROVA	L, IF ANY:							

A Fred

### OIL CONSERVATION DIVISION

### P. O. BOX 2088

## SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

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

Operator		Lease			Well No.				
<del></del>	TURAL GAS COMPANY		JUAN 28-5	<del></del>	)-A) 14A -				
Unit Letter Section Township			Range . County						
<u> </u>	E 20 28N 5W Rio Arriba								
Actual Footage Location of Well:  1520 feet from the North line and 1010 feet from the West line (									
Ground Level Elev.	Producing Formation	line and Pool	fee	t from the	line				
6637	Mesa Verde	P001	Blanco Mes	sa Verde	Dedicated Acreage: 320.00				
	<u> </u>								
2. If more the interest an	<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>								
dated by co	on one lease of different o	, force-pooling. etc?		Unitization	all owners been consoli-				
Yes	No fanswer is '	'yes,' type of consoli	dation						
this form if No allowab	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 Commis-								
		,		<del>Marin</del> y	CERTIFICATION				
1520'	SF-080516-A	SF-079519-A	 	tained he	certify that the information con- rein is true and complete to the y knowledge and belief. H. All 22				
	L i		 	Name					
1010			#14	(1/)	ng Clerk				
			0	[1]	Natural Gas Co.				
			   	Company October	r 18, 1979				
	Sec.		) 	Date					
			Access Consider						
		20		shown on notes of under my is true a	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the some and correct to the best of my e and belief.				
	+		F V E L 6 1979 DAL SURVEY	·	st 19, 1979 Professional Engineer				
0 330 660 6	0 1320 1650 1980 2310 26	40 2000 1500	1000 50	Certificate 3950	No. To all a superior and a superior				



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

### Multi-Point Surface Use Plan

### San Juan 28-5 Unit #14A

karaman kandaran karaman ang karaman ang kandidikan barah baran ang karaman kandidi karaman karaman kandidi ka

- 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.
- Planned Access Roads Please refer to Map No. 1. The grade of 2. 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.

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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,

1010AL SURVEY . 4 00 O.

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 upland bench with sagebrush pinon and juniper 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

\* 2 6 1979

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## Operations Plan San Juan 28-5 Unit #14A

I. Location: 1520'N, 1010'W, Section 20, T-28-N, R-5-W, Rio Arriba County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6637'GL

## II. Geology:

A. Formation T	Cops: Surface	San Jose	Lewis	3690'
	Ojo Ala	mo 2862'	Mesa Verde	5280 <b>'</b>
	Kirtlan	d 2942'	Menefee	5382 <b>'</b>
	Fruitla	nd 3242'	Point Lookout	5682'
	Pic.Cli	ffs 3526'	Total Depth	6130'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5270', 5370', 5670' 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 3890'. Gas from intermediate casing to Total Depth.

## IV. Materials:

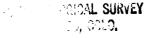
Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	, ,	13 3/4"	200'	9 5/8"	36.0# K-55
		8 3/4"	3890 <b>'</b>	7"	20.0# K-55
		6 1/4"	3740-6130°	4 1/2"	10.5# K-55

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: 6130' 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:  $10" 2000 \times 9 5/8"$  casing head.  $10" 2000 \times 6" 2000 \times 6$





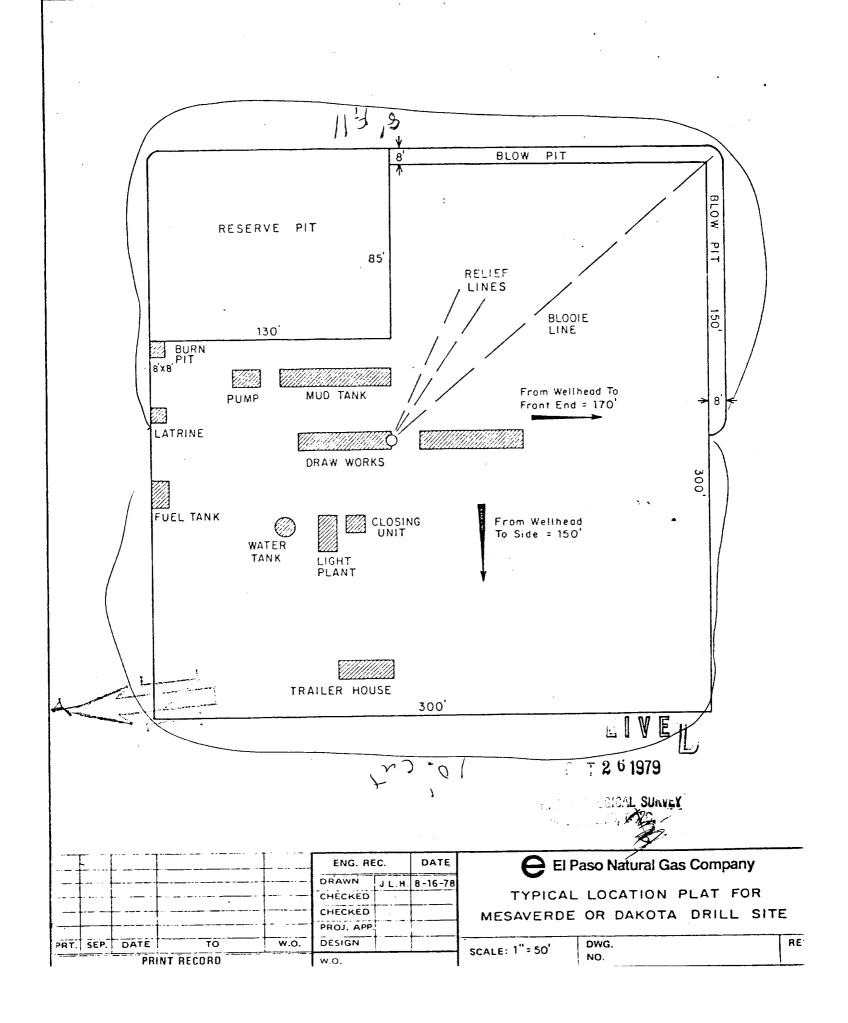
### V. Cementing:

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 67 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 (227 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.

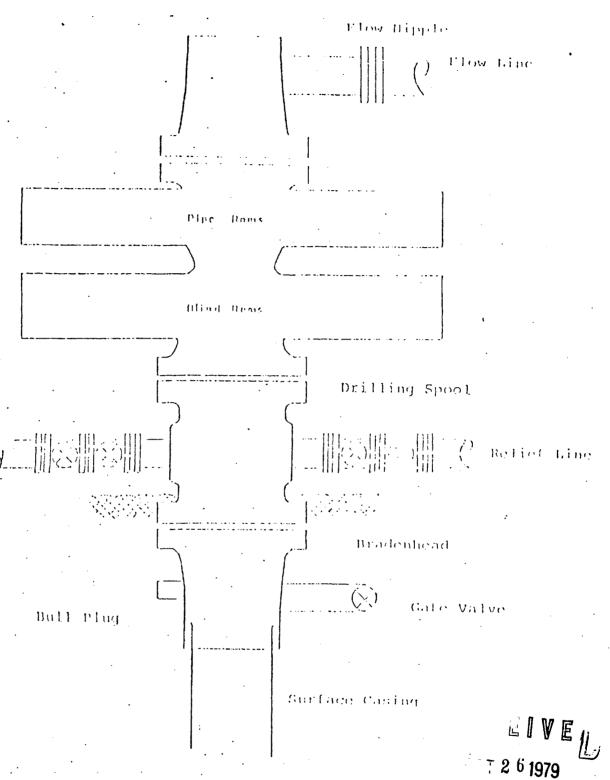
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 300 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (416 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



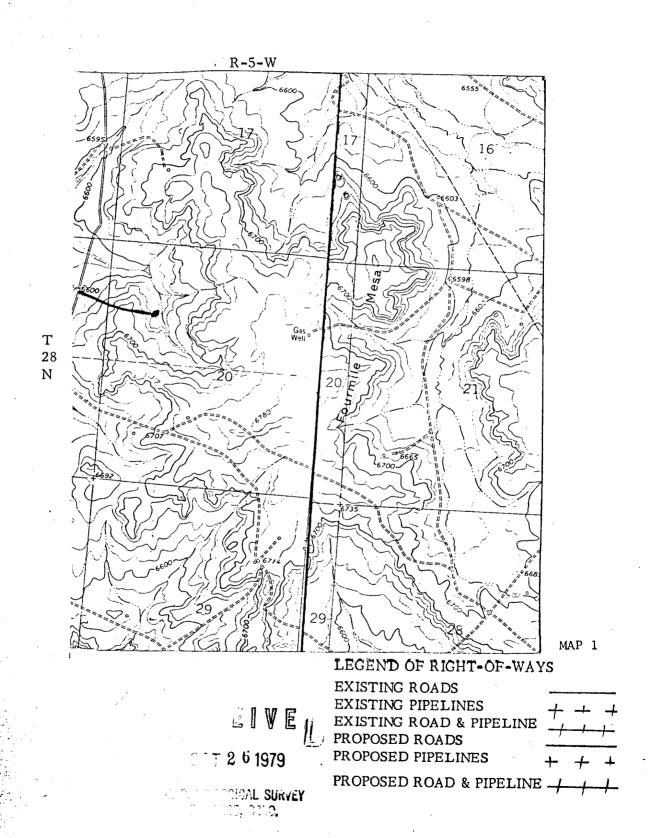


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# Tot Mega Verde Well

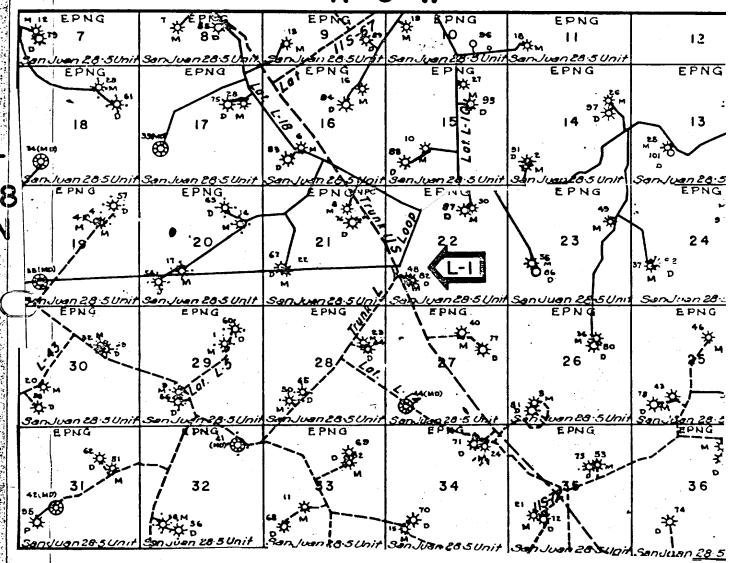


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



El Paso Natural Gas Company San Juan 28-5 Unit #14A NW 20-28-5

R-5-W



MAP 2

Propesed Location

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SURVEY