SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITE	ED S	TAT	ES
DEPARTMENT	OF	THE	INTERIOR

	DELTARTIMENT	O: :::= :::				5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	SF 079393				
APPLICATION	I FOR PERMIT T	6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
1a. TYPE OF WORK						-
DRI	LL 🗵	DEEPEN [	]	PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL			81	NGLE MULTIP		San Juan 27-5 Unit
WELL W	ELL X OTHER			NE Z ZONE	ш	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	1 2 2					San Juan 27-5 Unit -
EL PASO No	atural Gas Co	mpany				9. WELL NO.
-	) Harris	NIM 074	0.7			53A
4 LOCATION OF WELL (Re	), Farmington port location clearly and	, NM 8740		tate requirements *)		Tapacito Pic. Cliffs
At surface				,		Blanco Mesa Verde
9	1010'N, 79	5'W		•		AND SURVEY OR AREA
At proposed prod. zone	,					Sec.5,T-27-N,R-5-W
14. DISTANCE IN MILES A	Same Same NEAR NEAR NEAR	EST TOWN OR POST	OFFICE	*		NMPM 12. COUNTY OR PARISH   13. STATE
7 milos fr	om Cohomnado	~ NIM				
15. DISTANCE FROM PROPO LOCATION TO NEAREST	com Gobernado	L , INIM	16. NO	OF ACRES IN LEASE		Rio Arriba NM of ACRES ASSIGNED
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	159.811 w/ 319.71				
18. DISTANCE FROM PROPE	OSED LOCATION*	ARY OR CABLE TOOLS				
TO NEAREST WELL, DI OR APPLIED FOR, ON THE		1500		6010 <b>'</b>	Rota	rv
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
6569'GL						
23.	P	ROPOSED CASING	ANI	CEMENTING PROGRA	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	)T	SETTING DEPTH	1	QUANTITY OF CEMENT
					<u> </u>	
13 3/4"	<del>9 5/8"</del>	36.0#		200'	1	cu.ft. to circulate
6 1/4"	4 1 / 2 !! 1	20.0#		3695'		<del>cu.ft.to cover Ojo Al</del> amo
0 1/4	4 1/2"line	r 10.5#		3545-6010'	431 (	cu.ft.to circ.liner
Selectivel	v perforate	and sandwa	1+01	r fracture +1	he Pio	ctured Cliffs and
	formation.	and bandwe		L ILACCUIC C	.10 110	cured CIIIIs and
A 3000 psi	WP and 6000	psi test	doı	uble gate pro	evente	er equipped with
						ntion on this well.
				•	•	
This gas i	s dedicated.					
	-					31913
						OCT COM
mb = 1.1/0 = 6						
	Section 5 is					ductive zone and proposed new productive
zone. If proposal is to	drill or deepen directiona					ed and true vertical depths. Give blor out
preventer program, if any 24.	v. /		_			
1	H Riesan					•
SIGNED .	5. Justo	TITL	Е	Drilling	Clerk	DATE 9-20-79
(This space for Feder	ral or State office use)					
	,					
PERMIT NO.				APPROVAL DATE		
						01 1079
CONDITIONS OF APPROV.	AL, IF ANY:	TITL	E			- Office OT 1212

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# STATE OF NEW MEXICO

1320 1650

**LINERGY AND MINERALS DEPARTMENT** 

# OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

1986 Form C-102 Revised 10-1-78

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

Well No. Operator EL PASO NATURAL GAS COMPANY SAN JUAN 27-5 UNIT (SF-079393) 53A Unit Letter 27N 5W Rio Arriba Actual Footage Location of Well: West North feet from the feet from the Producing Formation Pictured Tapacito Pictured Cliffs Ground Level Elev. Cliffs MESA VERDE -6569 Blanco Mesa Verde 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? Unitization 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. 7951 SF-079393 September 20. Sec. 5 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. #53 Date Surveyed -August 30, 1979



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

# Multi-Point Surface Use Plan

## San Juan 27-5 Unit #53A

- 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 27-5 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,

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 and pinon 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

#### Operations Plan San Juan 27-5 Unit #53A

I. Location: 1010'N, 795'W, Section 5, T-27-N, R-5-W, Rio Arriba County, NM

Field: Tapacito PC & Blanco MV <u>Elevation:</u> 6569'GR

### II. Geology:

Α.	Formation	Tops:	Surface	San	Jose	Lewis	3495
		-	Ojo Alamo		2580'	Mesa Verde	5045 <b>'</b>
			Kirtland		2850 <b>'</b>	Menefee	5222 <b>'</b>
			Fruitland		3108'	Point Lookout	5567 <b>'</b>
			Pic.Cliffs		10888	Total Depth	6010'

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

I-ES and GR-Density at 3695'.

C. Coring Program: none

D. Natural Gauges: 5035', 5212', 5557' 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 3695'. Gas from intermediate casing to Total Depth.

# IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	<u> </u>	13 3/4"	200'	9 5/8"	36.0# K-55
		8 3/4"	3695 <b>'</b>	7"	20.0# K-55
		6 1/4"	3545-6010 <sup>1</sup>	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

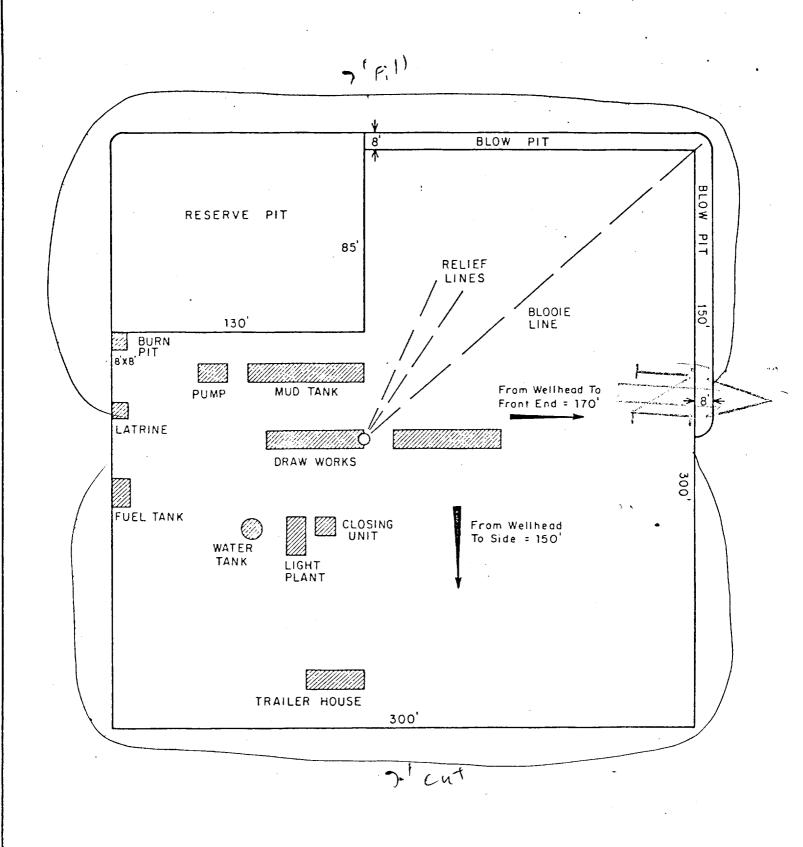
7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff & PBR. Geyser shoe and flapper type float collar
- C. Tubing: 6010' 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.

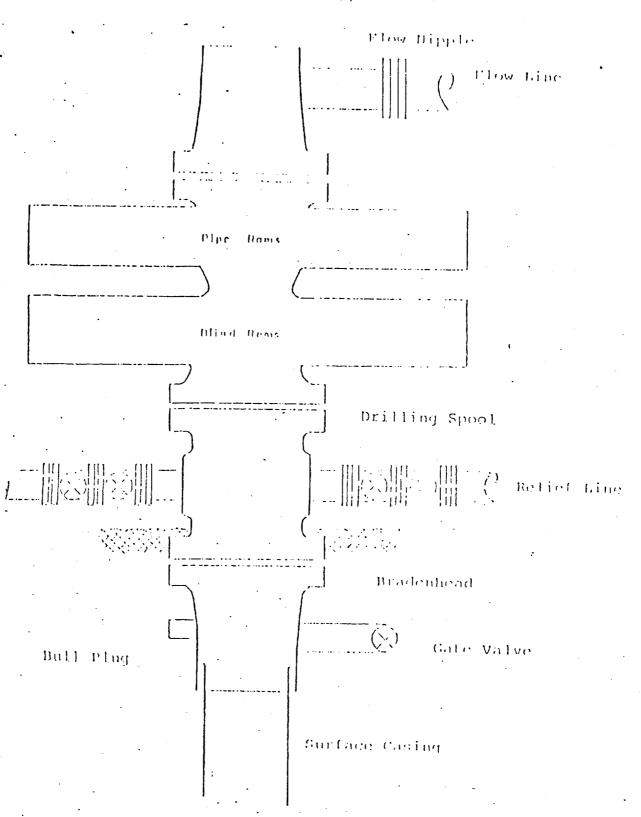
  3695' of 1 1/4", 2.33#, J-55 IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" x 7" casing hanger, 10" 2000 x 6" 2000 dual tubing head.

### V. Cementing:

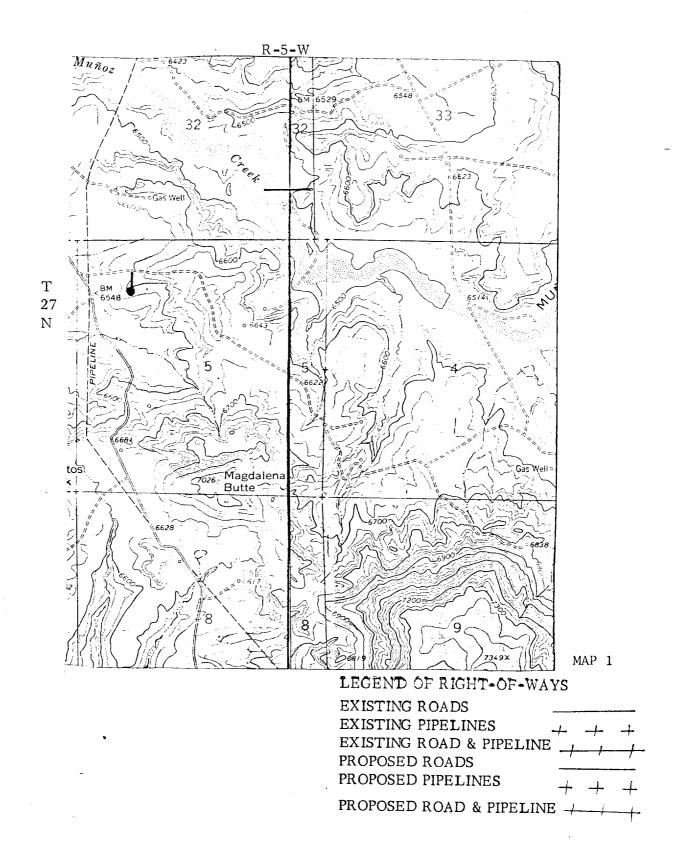
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 85 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (256 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 310sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



					ENG. REC. DATE		El Paso Natural Gas Company				
		1 1 1 DOGGGGG			CHECKED JL.H	8-16-78					
PRT.	SEP.	DATE	то	w.o.	DESIGN		SCALE: 1" = 50'	DWG.	RE		
PRINT RECORD			W.O.		SCALE: 1 - 50	NO.					

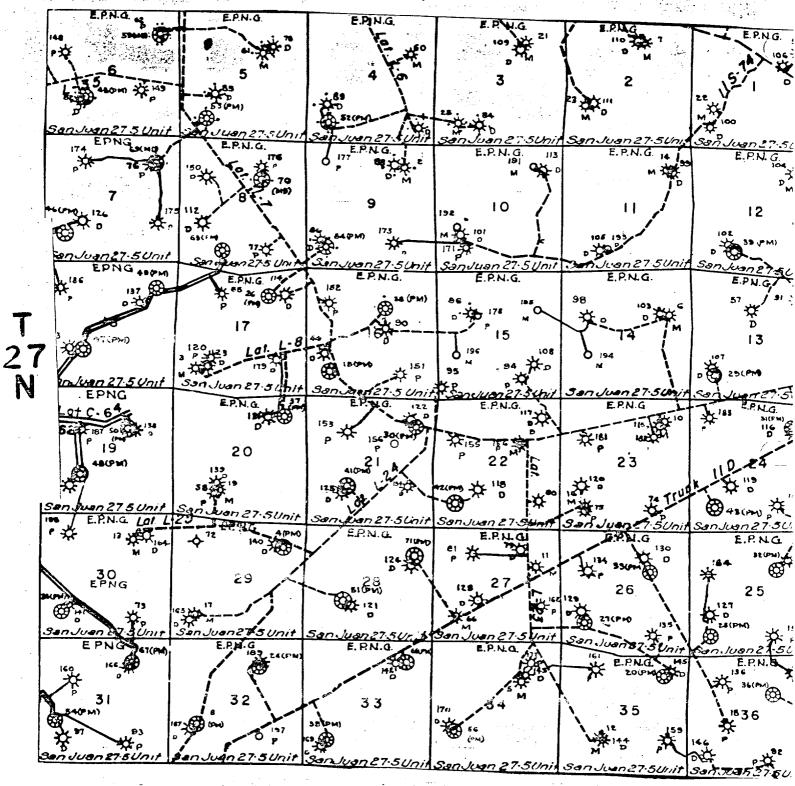


Series 900 Double Gate BOF, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



El Paso Natural Gas Company San Juan 27-5 Unit #53A

R - 5-W



MAP 2