SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITE	:D :	STATI	ES	
DEPARTMENT	OF	THE	INTE	RIOR

_	<u> 5</u> 2	- Ŏ	39	·	22	10
5.	LEASE	DESIG	MOITAN	AND	SERIAL	No.
	SF	079	394			

GEOLOGICAL SURVEY					SF 079394		
APPLICATION	N FOR PERMIT	O DRILL,	DEE	PEN, OR I	PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL	ILL 🛅	DEEPEN			UG BA		7. UNIT AGREEMENT NAME San Juan 27-5 Unit
	AS OTHER			ZONE	MULTIP Zone	LE X	S. FARM OR LEASE NAME
2. NAME OF OPERATOR							San Juan 27-5 Unit_
El Paso Nat	tural Gas Com	pany				[9. WELL NO.
3. ADDRESS OF OPERATOR							5A
PO Box 289	, Farmington,	NM 8740)1			-	10. FIRLD AND ROOL, OR WILDON
4. LOCATION OF WELL (R	eport location clearly and	in accordance wi	th any	State requirem	ents.*)		10. Tapacito, Pittici. Ext.
At surface	1700's, 95	⊇ ∵0				-	Blanco Mesa Verde
		O.F					AND SURVEY OR AREA
At proposed prod. zon					•	_	Sec. $34, T-27-N, R-5-W$
14 DISTANCE IN MILES	Same AND DIRECTION FROM NEAD	POT TOWN OF DOE	- ARRI	omå.			NMPM
	outh of Gober						12. COUNTY OR PARISH 13. STATE
15. DISTANCE FROM PROPO	OSED*	HAUOL, IN		NO. OF ACRES IN	N LEASE	17. NO. OF	Rio Arriba NM
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	INE, FT. g. unit line, if any)	1700'		Unit		тотн	160 & 320
18. DISTANCE FROM PROP		•	19. I	PROPOSED DEPTH		20. ROTARY	OR CABLE TOOLS
TO NEAREST WELL, DRILLING, COMPLETED, OF APPLIED FOR, ON THIS LEASE, FT. 2640' 587			5875	•	Rotary		
21. ELEVATIONS (Show who 6553 GL	ether DF, RT, GR, etc.)					4.	22. APPROX. DATE WORK WILL START*
23.	P	ROPOSED CASI	NG AN	D CEMENTIN	G PROGRA	M.	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF CEMENT	
13 3/4"	9_5/8"	32.3#		200	1	224 cu.ft. to circulate	
<u>8 3/4"</u>	7"	20.0#		3640	<u> </u>	1	.ft.to cover Ojo Alam
6 1/4"	4 1/2"line	r 10.5#		3490-58	75 '		.ft.to fill to 3490'
				•			

Selectively perforate and sandwater fracture the Pictured Cliffs and Mesa Verde formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on

This gas is dedicated.

The E/2 of Section 34 is de	dicated to this we	11. JUL COM.
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal one. If proposal is to drill or deepen directionally, give reventer program, if any.	is to deepen or plug back, give data or pertinent data on subsurface location	on present productive zone and propose that productive ns and measured and true vertical depths. Give blowout
signed D. J. Brisco	TITLE Drilline	g Clerk DATE 6-22-79
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	DATE

oh Freh

JUN 2 8 1979

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY MINML 20, 0010.

STATE.

STATE OF NEW MEXICO

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ENERGY AND MINERALS DEPARTMENT

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 cuter boundaries of the Section. Chetator 1,0000 Well Ho. EL PASO NATURAL GAS COMPANY SAN JUAN 27-5 UNIT (SF-079394) 5A Unit Letter Section Township Hange County J 27N 34 Rio Arriba Actual Footuge Location of Well: 1700 South 1850 feet from the ice Imm the East Producing Fernation MESA -VERDE Ground Level Elev. BLANCO-MESA VERDE Dedicated Acreage: 6553 PICTURED CLIFFS 160.00 & 320.00 Acres TAPACITO PICTURED CLIFFS EXT. 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 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 Division. CERTIFICATION I hereby certify that the information contained herein Is true and complete to the used Drilling Clerk . Position El Paso Natural Gas Co. SF-079394 Company June 22, 1979 Date Sec. 34 I hereby certify that the well location shown on this play was platted 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. 3950 1320 1660 10.00





Multi-Point Surface Use Plan

San Juan 27-5 Unit #5A

- 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 will be obtained from Companero Water Hole #1.
- 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 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 #5A

I. Location: 1700'S, 1850'E, Section 34, T-27-N, R-5-W, Rio Arriba County, NM

Field: Blanco MV & Tapacito PC Ext. <u>Elevation:</u> 6553'GR

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3440 '
-	Ojo Alamo	2660 '	Mesa Verde	4930'
	Kirtland	2870 '	Menefee	5045 '
	Fruitland	3085 '	Point Lookout	5423 '
	Pic.Cliffs	3296 '	Total Depth	5875 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4920', 5035', 5413' 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 3640'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3640'	7"	20.0# K-55
		6 1/4"	3490-5875'	4 1/2"	10.5# K-55

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig.222) and Larkin flapper type float collar(fig.404 M&F).

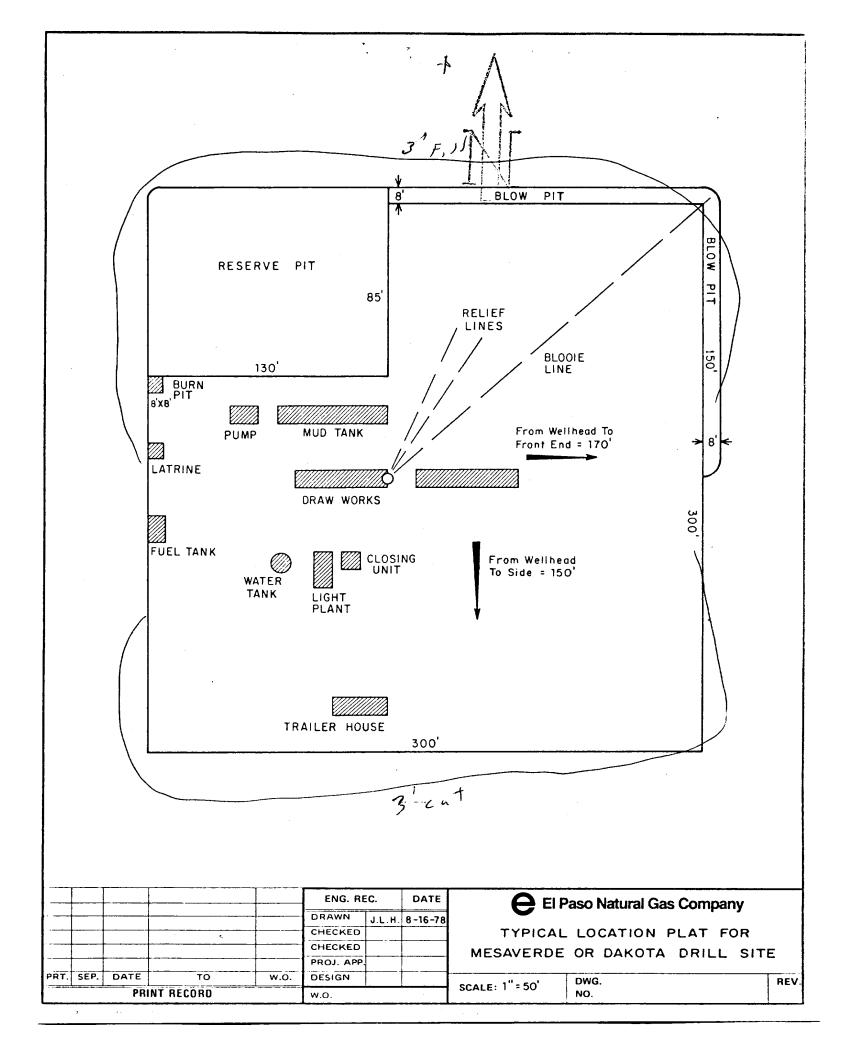
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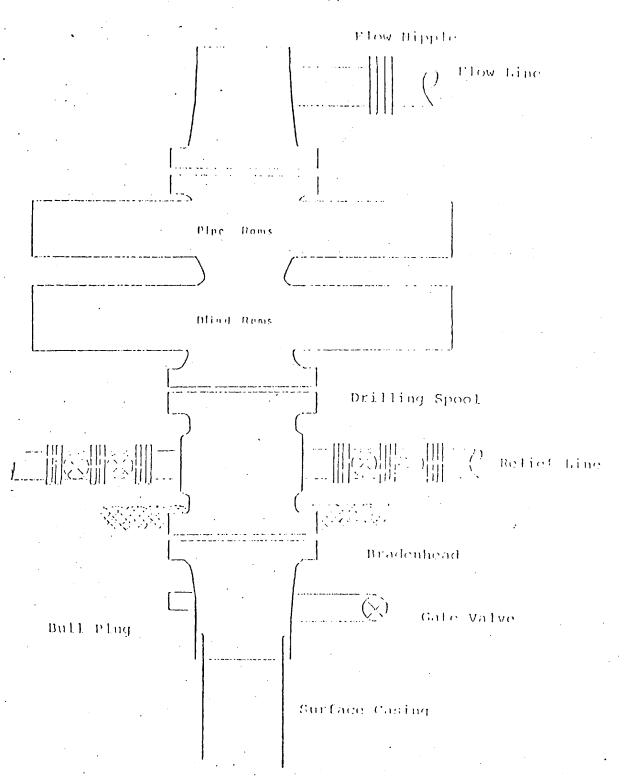
- C. Tubing: 5875' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.

 3440' 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 zones with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

V. Cementing:

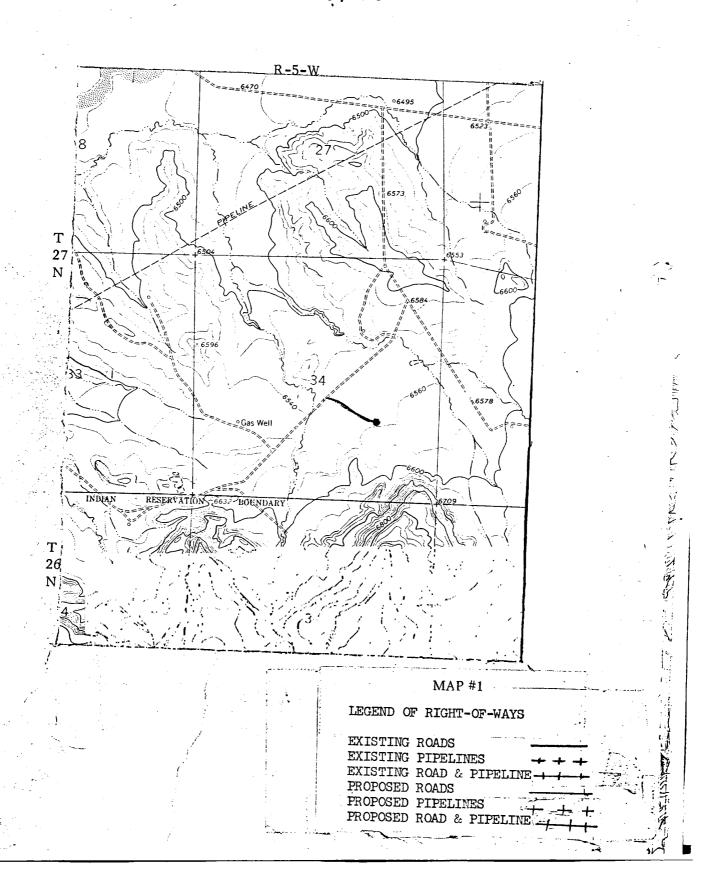
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 63 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (220 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.

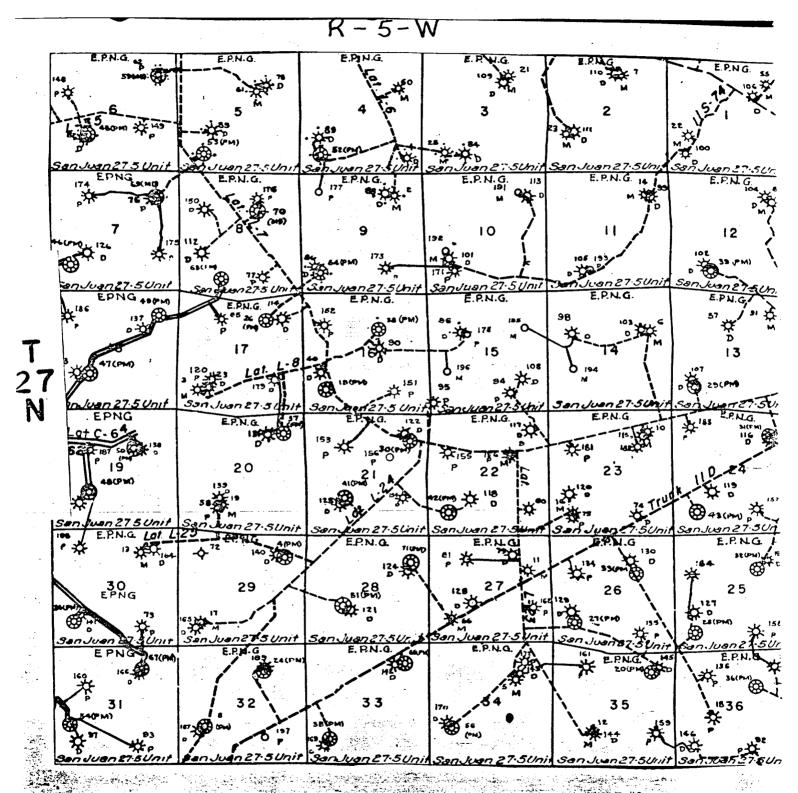




Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

EL PASO NATURAL GAS COMPANY San Juan 27-5 Unit # 5A (PM) SE/4 Sec. 24-27-5





MAP #2

Proposed Location