#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

30	) .	-0	39-	-á	185	8
. LEA	SE	DESI	GNATION	AND	SERIAL	No.
SF	0	79.	393			

GEOLOGICAL SURVEY					5. Lease designation and serial no. SF 079393	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF WELL	ILL 🖺	DEEPEN [		PLUG BA		7. UNIT AGREEMENT NAME San Juan 27-5 Unit
OIL GAS WELL OTHER SINGLE ZONE ZONE  2. NAME OF OPERATOR				LE	8. FARM OR LEASE NAME San Juan 27-5 Unit	
El Paso Na  B. Address of Operator	tural Gas Con	npany				9. WELL NO. 60A
	, Farmington,					10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1770'S, 1610'E				Blanco Mesa Verde  11. SEC., T., R., M., OR BLK.  SeC. 4, T2, T-N, R-5-W		
At proposed prod. zon	same		•			NMPM
	and direction from NEA ast of Blanco		OFFICE			Rio Arriba NM
LOCATION TO NEARES PROPERTY OR LEASE 1 (Also to nearest dr.)	T LINE, FT. g. unit line, if any)	1610		of acres in lease Unit		OF ACRES ASSIGNED 319.69
TO NEAREST WELL, I	B. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PRO	9. PROPOSED DEPTH 6055		RY OR CABLE TOOLS
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)				1	22. APPROX. DATE WORK WILL, START*
3.	]	PROPOSED CASIN	G AND	CEMENTING PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	I .	200		cu.ft. to circulate
8 3/4" 6 1/4"	4 1/2"line	20.0# r 10.5#	I .	3775 <b>'</b> 625-6055'		cu.ft.to cover Ojo A cu.ft.to fill to 362
A 3000 psi blind and p This gas is The E/2 of	WP and 6000 pipe rams will s dedicated.  Section 4 is proposed Program: If drill or deepen directions	psi test l be used dedicate	doub for d to	le gate prev blow out protection this well.	Jenter Sevent	equipped with tion or this well.  Succeeding the proposed new productive dand true vertical depths. Give blowout
SIGNED /	J. Gusev	TITI	LE	Drilling (	Clerk	August 17,197
	ral or State office use)					or you, who are the groups of the con-
				PPROVAL DATE	1	
CONDITIONS OF APPROV	AL, IF ANY:	TITI	. Ei	······································	F	JG 22 1973
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# WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-12R Effective 1-1-65

All distances must be from the outer boundaries of the Section Operator Well Ho. EL PASO NATURAL GAS COMPANY SAN JUAN 27-5 UNIT (SF-079393 60a Unit Letter Township Hunge County 4 27N Rio Arriba Actual Footage Location of Well: South 1610 Ground Level Elev. Producing Formation Dedicated Acreage: 6585 Blanco Mesa Verde Mesa Verde 319.69 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? If answer is "yes," type of consolidation Unitization 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. #60 Complany August 18, I hereby certify that the well location SF-079393 shown on this plat was plotted from field notes of actual surveys made by me or 1610' under my supervision, and that the same is true and correct to the best of my knowledge and belief. PAGE AND THE PAGE 3950 1320 1610 1980 2310

220



P. C. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan San Juan 27-5 Unit #60A

- 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 the 27-5 Water Well #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 sandstone ledges and rolling hills with pinon and cedar growing. Cattle graze 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.

D. C. Walker

Project Drilling Engineer

#### Operations Plan San Juan 27-5 Unit #60A

I. <u>Location</u>: 1770'S, 1610'E, Section 4, T-27-N, R-5-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6585'GR

#### II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis		3575 <b>'</b>
			Ojo Alamo	2765 <b>'</b>	Mesa Verde	-	5085 <b>'</b>
			Kirtland	2965 <b>'</b>	Menefee		5235 <b>'</b>
			Fruitland	3195 <b>'</b>	Point Lookout		5605 <b>'</b>
			Pic.Cliffs	3435 <b>'</b>	Total Depth		6055 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5075', 5225', 5595' 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 3775'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size		Casing Size	Wt.&Grade
		13 3/4"	200	9 5/8"	32.3 # H-40
		8 3/4"	3775 <b>'</b>	7"	20.0# K-55
		6 1/4"	3625'-6055'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

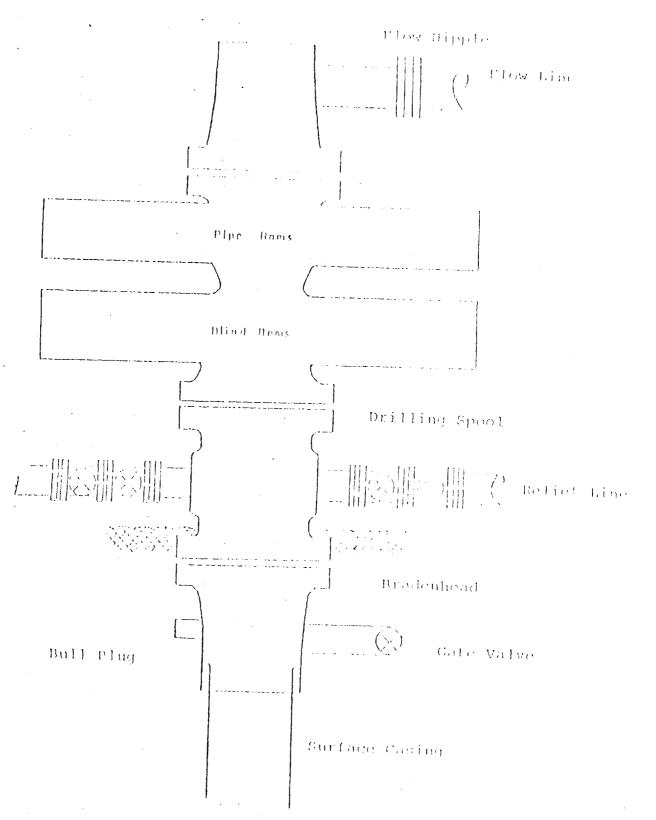
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6055' 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" 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 68 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 (229 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 305 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (424 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

# Typical R.O.L Tustallation for Mega Verde Well

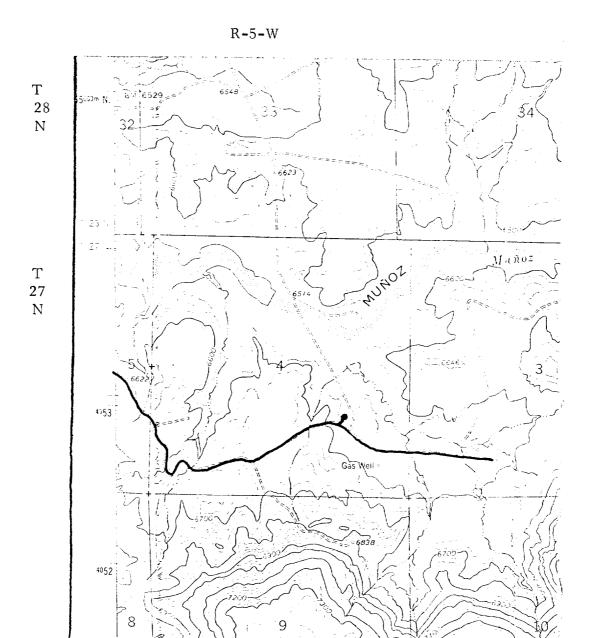


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

3 20 17 12 351 Jan Locks 11120 1 %. act 5 ft Fill 546 the way a 185 300.

Typical Lucidian Mak for Mass Merila and Dirata wells

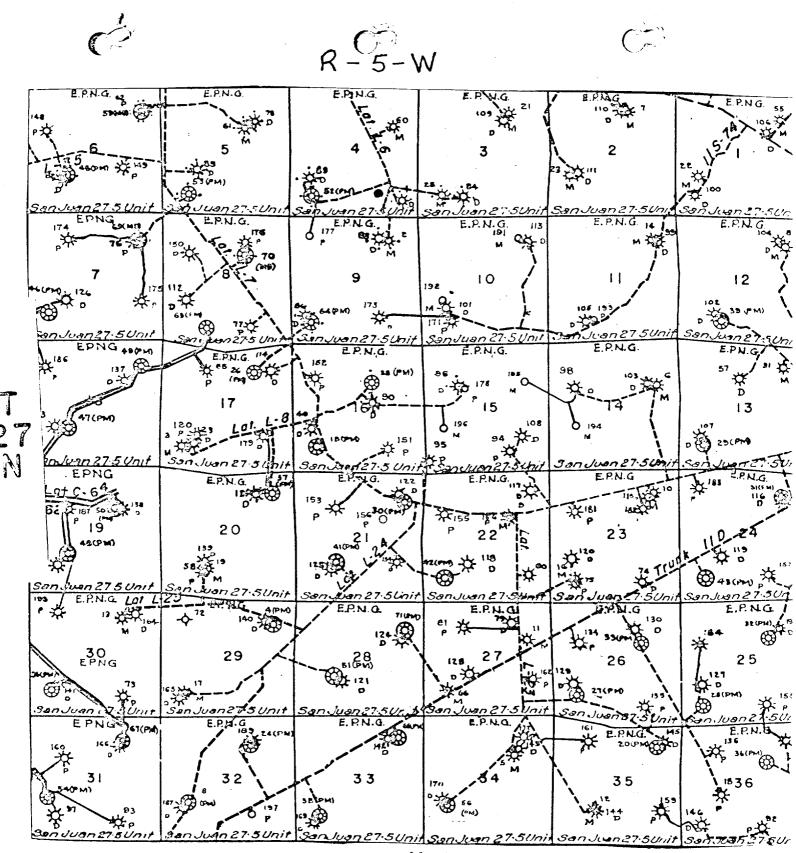
# EL PASO NATURAL GAS COMPANY San Juan 27-5 Unit #60A SE 4-27-5



## LEGEND OF RIGHT-OF-WAYS

Map #1

EXISTING	ROADS	<del></del>
EXISTING	PIPELINES	<del>+</del> + +
EXISTING	ROAD & PIPELIM	E <del>-                                   </del>
PROPOSED	ROADS	
PROPOSED	PIPELINES	+++
PROPOSED	ROAD & PIPELIN	E + + + +
		,



Map #2