SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-039-2187					
ļ	5. LEASE DESIGNATION AND SERIAL NO.				
	SF 079193				

APPLICATION	Y FOR PERMIT	O DRILL, DEEP	PEN, OR PLUG	BACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK		DEEPEN	PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	landa i				San Juan 28-6 Unit
	AS OTHER		SINGLE X MULTI	IPLE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR	ELL CO OTHER		20.12		San Juan 28-6 Unit
El Paso Nat	ural Gas Com	pany			9. WELL NO.
3. ADDRESS OF OPERATOR		27.403			60A
	Farmington,				10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and 1460'S, 97		State requirements.*)		Blanco Mesa Verde
At proposed prod. zon	same				Sec. 21, Tor 28-N, R-6-W
	and direction from NEAR ast of Blanco		CE*		12. COUNTY OR PARISH 13. STATE Rio Arriba NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	r .INE, FT.	970'	NO. OF ACRES IN LEASE Unit		OF ACRES ASSIGNED 320
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	2500 19.	PROPOSED DEPTH 5945	Rotar	Y OR CABLE TOOLS
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
23.	F	PROPOSED CASING AN	ND CEMENTING PROGI	RAM	_ <u>'</u>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER POOT	SETTING DEPTH	1	QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'	224 c	cu.ft. to circulate
8 3/4"	7 " 7"	20.0#	3685	I .	u.ft.to cover Ojo Ala
6 1/4"	4 1/2"line	i	3535-5945'		u.ft.to fill to 3535'
A 3000 psi	WP and 6000	psi test dou	ıble gate pre	venter	Verde formation.
This gas is	s dedicated. Section 21 i				AUG 23 1978 AUG 23 1978 OIL CON. DIST. 3
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If	proposal is to deepen or	plug back, give data on	present prod	luctive time and proposed new productive d and true extical depths. Give blowout
preventer program, if an	у.				
SIGNED	1. Buses	TITLE	Drilling	Clerk	August 17,1978
(This space for Fede	ral or State office use)				
PERMIT NO.			APPROVAL DATE		DECEIVED
CONDITIONS OF APPROV	AL, IF ANY:	TITLE			AUG 2 2 1978
or sno	h			,	e o ocological SHSVEV

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1st 64

Effective 1-1-65 All distances must be from the outer houndaries of the Section. Operator Well Ho. EL PASO NATURAL GAS COMPANY JUAN 28-6 UNIT (SF-079193) SAN 60A Unit Letter section Hancie County Ι 21 28N Rio Arriba Actual Footage Location of Well: 1460 feet from the South 970 line and line Ground Level Elev. Producing Fernation Dedicated Acreage: 6486 Mesa Verde Blanco Mesa Verde 320.00 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best-of my knowledge and belief. 'brilling Clerk FEquipaso Natural Gas Co. August 18, 1978 Sec 21 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. Date Surveyed July 20,





Multi-Point Surface Use Plan San Juan 28-6 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 San Juan 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,

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 hills and sandstone ledges 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 28-6 Unit #60A

I. <u>Location</u>: 1460'S, 970'E, Section 21, T-28-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6486'GR

II. Geology:

Α.	Formation Tops	: Surface	San Jose	Lewis	3485 '
		Ojo Alamo	2425 '	Mesa Verde	4965 '
	•	Kirtland	2640'	Menefee	5135'
		Fruitland	2980 '	Point Lookout	5496 '
		Pic.Cliffs	3320 '	Total Depth	5945 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4955', 5125', 5485' 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 3685'. 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"	32.3# H-40	
		8 3/4"	3685 '	7"	20.0# K-55	
		6 1/4"	3535 - 5945 '	4 1/2"	10.5# K-55	

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: 5945' 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.

Operations Plan - San Juan 28-6 Unit #60A

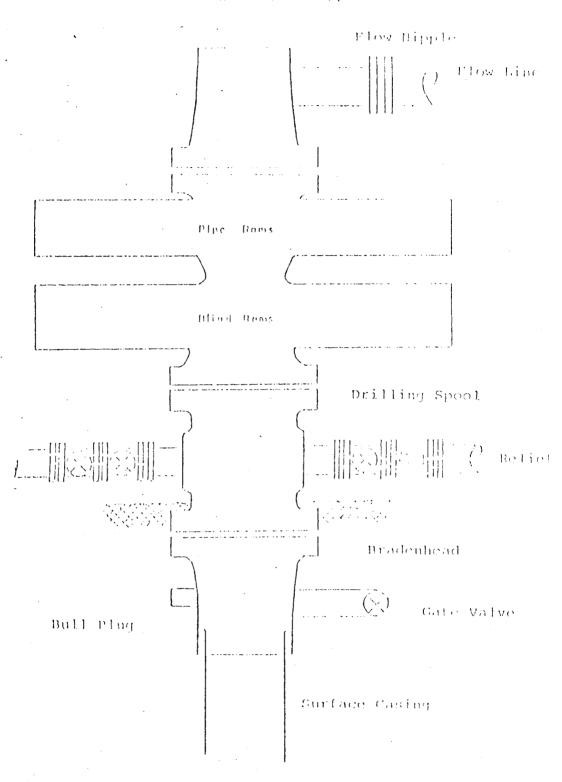
V. Cementing:

- 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 103 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 (284 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 302 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (420 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

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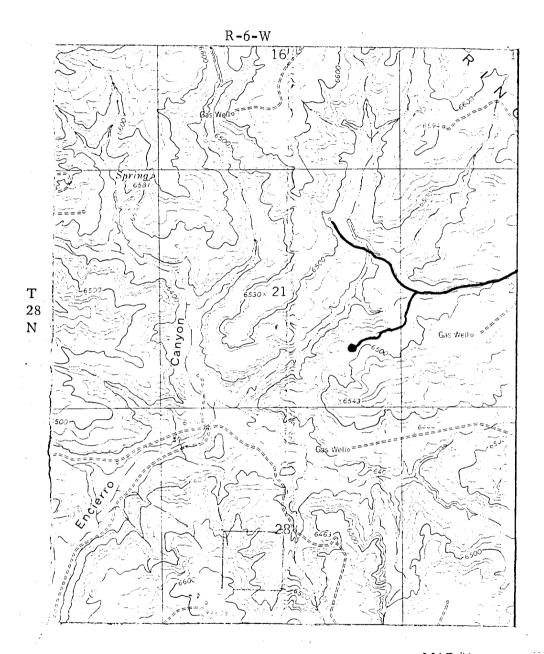
El Paso Nevent 603

Typical W.O.E. Installation for Mogs Verde Well



Series 900 Double Gate BOF, rated at 3000 psi Working Pressure When gas dyilling 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 PASONATURAL GAS COMPANY San Juan 28-6 Unit #60A SE 21-28-6

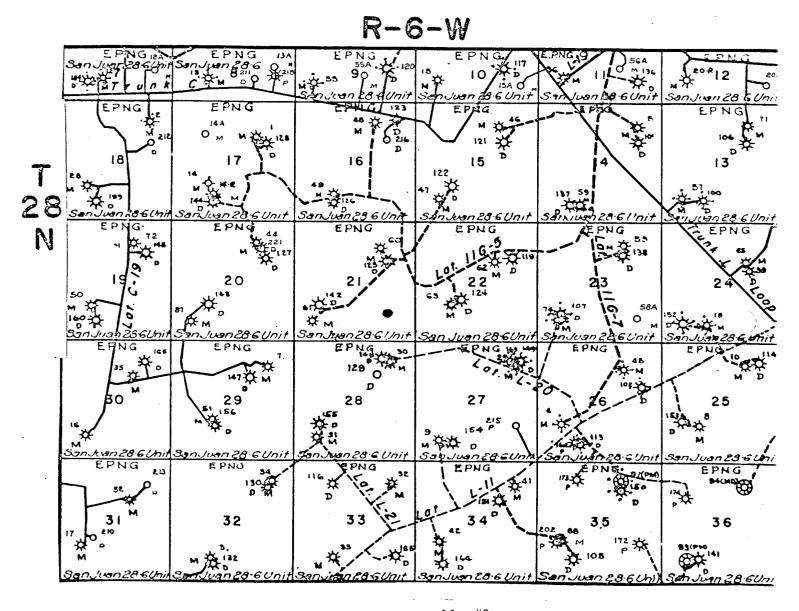


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS			
	PIPELINES	-	+	
EXISTING	ROAD & PIPELIN	E -+	- j-	+ -
PROPOSED	ROADS			
PROPOSED	PIPELINES	+	+	+
PROPOSED	ROAD & PIPELIN	E +	+	+

EL PASO NATURAL GAS COMPANY San Juan 28-6 Unit #60A SE 21-28-6



Map #2
Proposed Location ●