#### SUBMIT IN TRIPLICATE\*

Form approved.

(May 1963)	DEPARTMENT (	D STATES OF THE INTE	(Other instruc reverse si ERIOR	ide)	Budget Burean  20 - 0 3 9 -  LEASE DESIGNATION A  SF 079367-B	2/86,0
A DDI ICATIONI			PEN, OR PLUG B		IF INDIAN, ALLOTTEE	
1a. TYPE OF WORK	L 🖺	DEEPEN	PLUG BAC	CK 7.	UNIT AGREEMENT NA San Juan 28 FARM OR LEASE NAM	8-6 Unit
3. ADDRESS OF OPERATOR	ural Gas Comp			9.	San Juan 28 WELL NO. 70A	3-6 Unit
PO Box 990, Farmington, NM 87401  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface 960'N, 1120'W				11	Blanco Mesa sec., T., E., M., or B	a Verde /
At proposed prod. zone same					sêr. 25.75.7°-25 NMPM	
	nd direction from Neares ast of Blanco,		CCE*		Rio Arriba	13. STATE NM
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	NE, FT.	960   16.	No. of acres in Lease Unit	то тнія		/320.00
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	ILLING, COMPLETED, LEASE, FT.	800' 19.	PROPOSED DEPTH 5900'	Rotary	OR CABLE TOOLS	
21. ELEVATIONS (Show whet 6572 GR	ther DF, RT, GR, etc.)				22. APPROX. DATE WO	EK WILL START*
23.	PRO	OPOSED CASING A	ND CEMENTING PROGRA	АМ		
8 3/4" 8 3/4" 6 1/4"	size of casing 9 5/8" 7" 4 1/2"liner	32.3# 20.0# 10.5#	3645 3495 - 5900 1	248 cu	ft. to ci. ft. to ci. ft. to fil	rculate er Ojo Alar
Selectively	perforate an	d sandwate	er fracture th	e Me <b>s</b> a	Verde form	ation.
blind and p	pipe rams will	osi test do . be used f	ouble gate pre For blow out p	venter reventi	equipped woon on this	ith well.
	dedicated.		a to this wall		AUGEO	378 364.
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM; If prodrill or deepen directionally	oposal is to deepen o	d to this well or plug back, give data on p ca on subsurface locations a	oresent product	tive zone and propose and true vertical depth	d ne productive
81GNED	J. Lucio	TITLE _	Drilling	Clerk	Augu	st 17,1978
(This space for Feder	ral or State office use)			, 3 6		
PERMIT NO.			APPROVAL DATE		i G E I V E	

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U. G. 0701.0810AL SURVEY

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107 Supersedes C-124 Effective 1-1-65

All distunces must be from the outer boundaries of the Section Cherator Well Do. EL PASO NATURAL GAS COMPANY San Juan 28-6 Unit (SF-079367-B) 70A Unit Letter co. lion Fownship 27N 6W Rio Arriba Actual Footage Location of Well: 960 North feet from the 1120 line and feet from the West Ground Level Elev. Producing Formation Dedicated Apresan 6572 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? Yes No. 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 Commis-CERTIFICATION I hereby certify that the information cortained herein is true and complete to the best of my knowledge and belief. 11201 Brilling Clerk Paso Natural Gas Co <sup>C</sup>August 18, 1978 SF-079367-3 25 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. #70 Date Surveyed

# NATURAL GAS COMPANY

P. O. BOX 990 FARMINGTON, NEW MEXICC -7431 PHONE: 505-325-2841

#### Multi-Point Surface Use Plan San Juan 28-6 Unit #70A

- 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 LaBoto Water Hole.
- 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-cff 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 sagebrush flats with sagebrush 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 #70A

I. Location: 960'N, 1120'W, Section 25, T-27-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde

Elevation: 6572'GR

#### II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3445'
		Ojo Alamo	2545 <b>'</b>	Mesa Verde	4960'
		Kirtland	2710'	Menefee	5100'
		Fruitland	3040'	Point Lookout .	5452'
		Pic.Cliffs	3295 <b>'</b>	Total Depth .	5900'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4950', 5090', 5440' 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 3645'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

A. Casing Progra		Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	$\overline{32.3 \# H-40}$
	8 3/4"	3645'	7"	20.0# K-55
	6 1/4" `	3495-5900'	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: 5900' 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 #70A

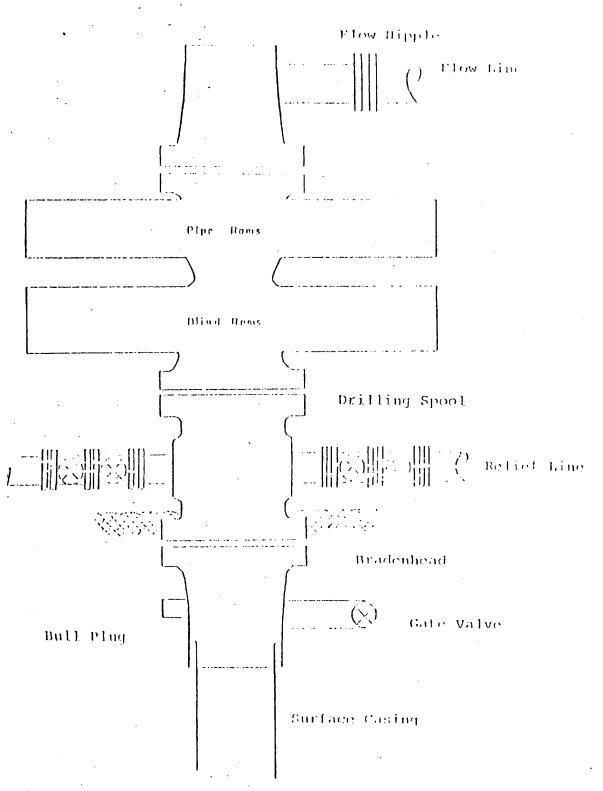
#### V. Cementing:

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 80 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 (248 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 (419 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

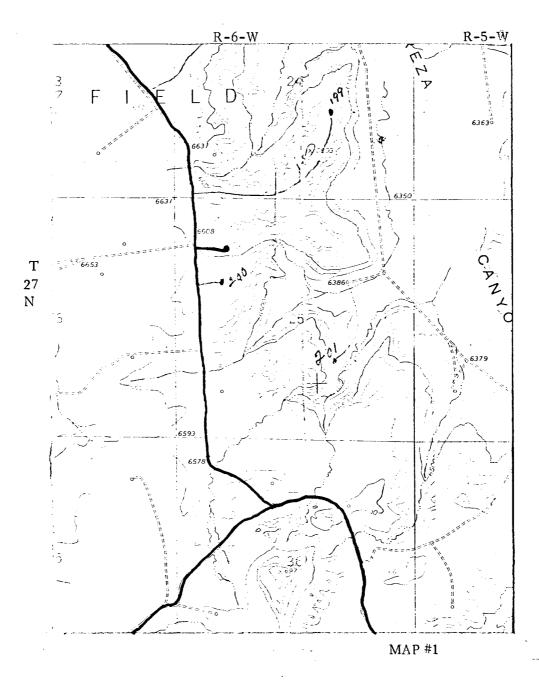
Typical B.O.E. Installation for Mega Verde Well



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

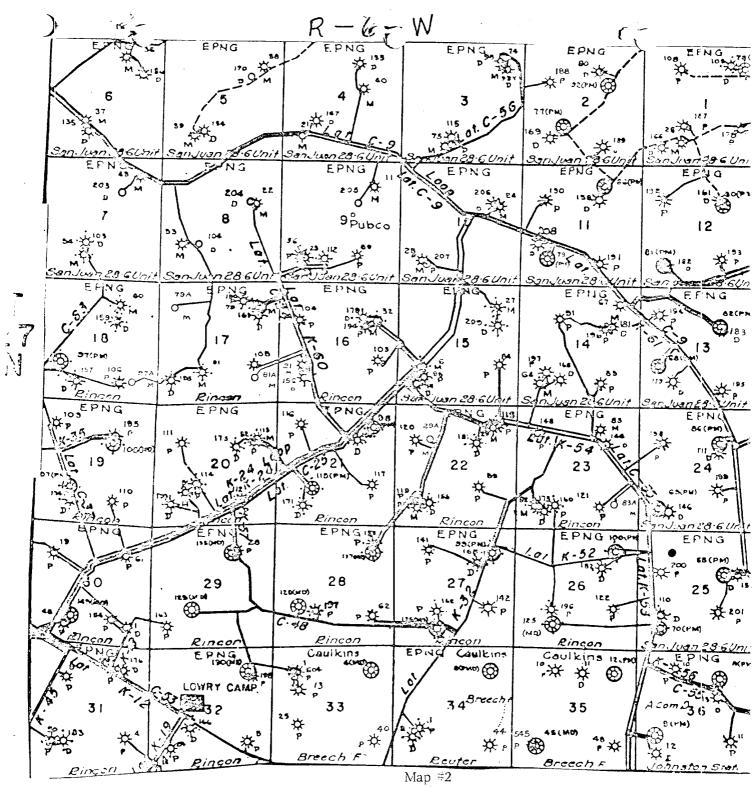
37 Dead Rocks Well Name: San Juan 28-6# 70A 9 cut 10xt nu 25-27-6 Fill 8 Jt

### EL PASO NATURAL GAS COMPANY San Juan 28-6 Unit #70A NW 25-27-6



## LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELINES	-++
EXISTING	ROAD & PIPELII	涯-+
PROPOSED	ROADS	<del></del>
	PIPELINES	+++
PROPOSED	ROAD & PIPELI	NE <del>1 - 1 - [</del>



Proposed Location •