SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT	OF THE IN		se side)	30-639-31941 5. LEASE DESIGNATION AND SERIAL NO.	
GEOLO	GICAL SURVE	Y		SF 080712 A	
APPLICATION FOR PERMIT 1	O DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
DRILL DRILL SAS WELL OTHER	DEEPEN [•	TIPLE [7. UNIT AGREEMENT NAME San Juan 30-6 Unit 8. FARM OR LEASE NAME	
2. NAME OF OPERATOR El Paso Natural Gas Com 3. ADDRESS OF OPERATOR				San Juan 30-6 Unit 9. WELL NO. 49A	
PO Box 990, Farmington, NM 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 820'S, 1500'E At proposed prod. zone same				10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde 11. SEC., T., R., M., OR BLK. Sec. 27, T - 30-N, R-6-W NMPM	
14. distance in Miles and disection From NEAR 38 miles East of Blanco		OFFICE*		12. COUNTY OR PARISH 13. STATE Rio Arriba NM	
15. DISTANCE FROM PROFOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	820 '	16. NO. OF ACRES IN LEASE Unit	тот	OF ACRES ASSIGNED 320.00	
 DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 	3600'	19. PROPOSED DEPTH 6430		20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6844 GL	<u>-</u>	4.70	<u> </u>	22. APPROX. DATE WORK WILL START*	
23. F	PROPOSED CASING	G AND CEMENTING PRO	GRAM		
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOO		224	QUANTITY OF CEMENT	
13 3/4" 9 5/8" 8 3/4" 7"	32.3#	200' 4090'	291	cu.ft. to circulate	
6 1/4" 4 1/2"line	r 10.5#	3940-6430	434	cu.ft.to fill to 3940	

Selectively perforate and sandwater fracture the 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 well.

This gas is dedicated.

The E/2 of Section 27 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

preventer program, if any.				\$	
signed D. J. Suaco	TITLE	Drilli	ng Clerk	10-3-78	
(This space for Federal or State office use)			D E	GEIVEM	
PERMIT NO.		APPROVAL DATE	157 5		
February No.		ATTROVAL DATE	<u> </u>	<u>U</u>	
APPROVED BY	TITLE		U	T •5•1 <u>978 </u>	
CONDITIONS OF APPROVAL, IF ANY:			U. S. GE	OLOGICAL SURVEY	

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-122 Effective 1-1-65

All distances must be from the outer noundaries of the Section Operator Lease Well Do. EL PASO NATURAL GAS COMPANY SAN JUAN 30-6 UNIT (SF-080712-A 49A Unit Letter Section. Township Hange County 0 27 30N 6W Rio Arriba Actual Fostage Location of Well: 820 South 1500 feet from the East Ground Lignel Elev. Producing Fermation Pool Dedicated Acreage: **68**hh 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 No 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. #49 Paso Natural <u>Gas</u> Co October 3, 1978 SF-080712-A Sec 27 I hereby certify that the well location shown on this plat was plotted from field notes of act al surveys made by me or vision, and that the same is true and correction the best of my knowledge an 15001 Fred



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

Multi-Point Surface Use Plan San Juan 30-6 Unit #49A

- 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 30-6 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. 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.

D. C. Walker

Project Drilling Engineer

Operations Plan San Juan 30-6 Unit #49A

I. Location: 820'S, 1500'E, Section 27, T-30-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6844'GR

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3890 '
	Ojo Alamo	2800 '	Mesa Verde	5650 '
	Kirtland	2995 '	Menefee	5710'
	Fruitland	3360'	Point Lookout	5490 '
	Pic.Cliffs	3784 '	Total Depth	6430'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5640', 5700', 5970' 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 4090'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:		Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	4090'	7"	20.0# K-55
		6 1/4"	3940-6430'	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: 6430' 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.

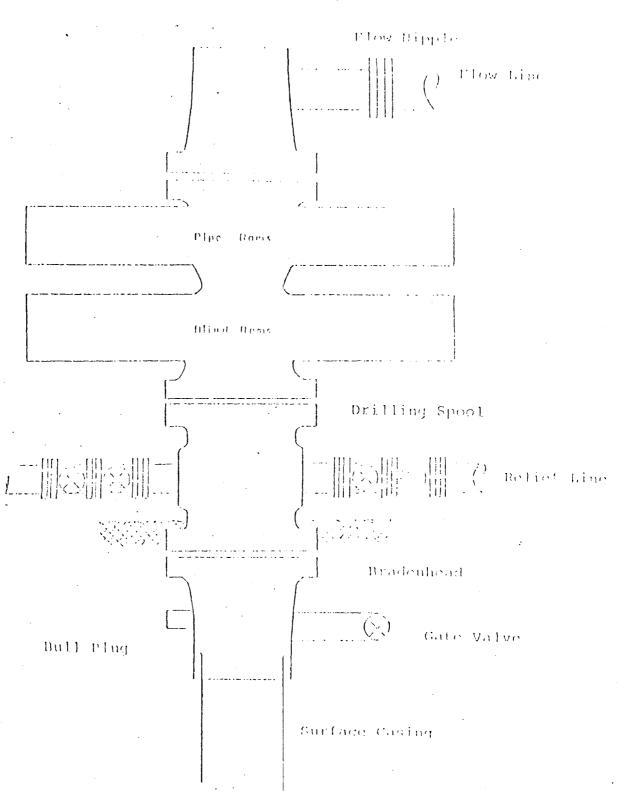
V. Cementing:

- 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 107 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 (291 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 312 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (434 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

Ter Tink 2 13% Bos area Dave Merks March Track lut 5ft County Janie . File 54t Klose ,,,,,

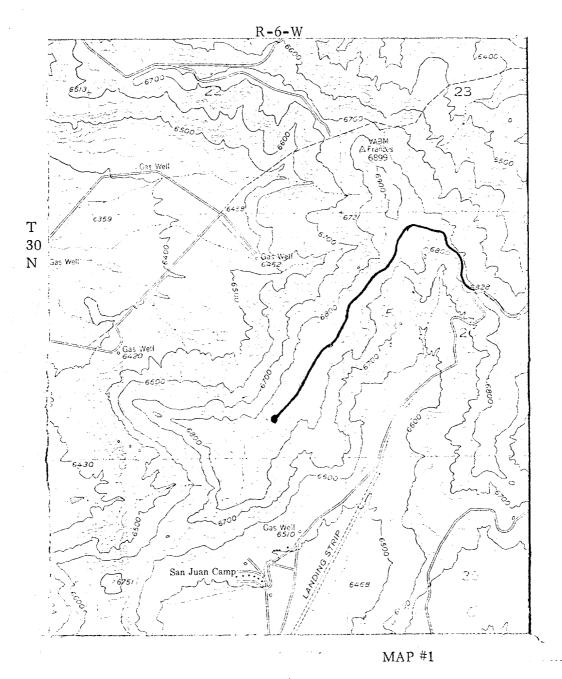
The Paso Natural Cas Company

Typical B.O.E. EnglatTation Tor Mega Verde Well



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

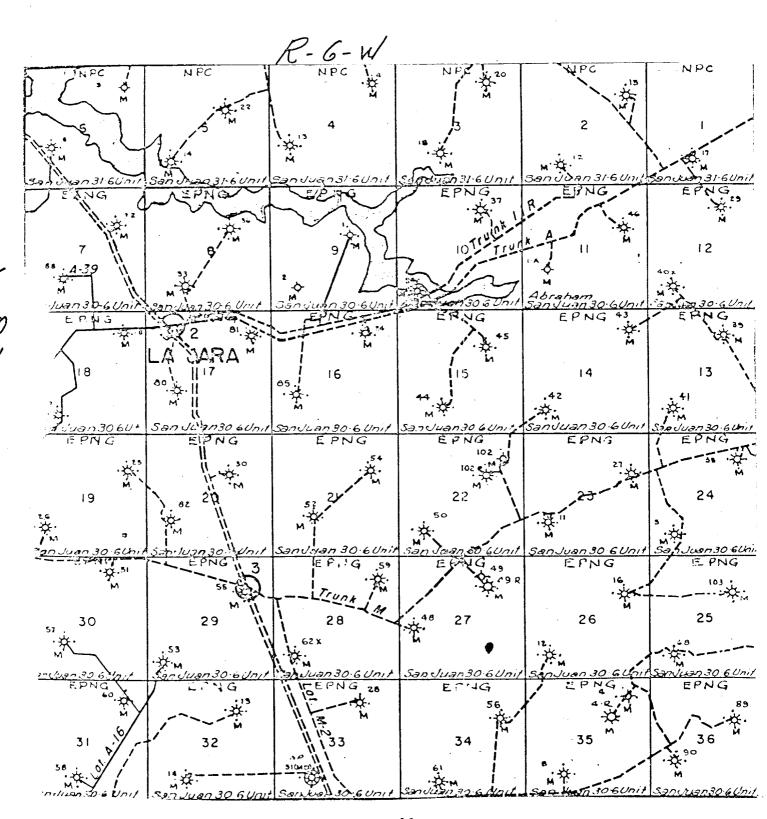
EL PASO NATURAL GAS COMPANY San Juan 30-6 Unit #49A SE 27-30-6



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELINES	+++
EXISTING	ROAD & PIPELI	ME -+
PROPOSED	ROADS	
	PIPELIMES	_ + + +
PRCPOSED	RCAD & PIPELI	IE -/ / /

EL PASO NATURAL GAS COMPANY San Juan 30-6 #49 A SE 27-30-6



Map #2
Proposed Location