SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30	-039_	.2	1869	7
5. LEASE	DESIGNATION	AND	SERIAL NO.	_
3734 0	2005			

GEOLOG	NM	02805		
APPLICATION FOR PERMIT TO	O DRILL, DEEP	EN, OR PLUG B	ACK 6. IF IN	DIAN, ALLOTTEE OR TRIBE NAME
DRILL b. TYPE OF WELL OIL WELL CAS WELL OTHER CAS OTHER CAS CAS CAS CAS CAS CAS CAS CA		PLUG BAC	San 8. FARM	Juan 28-6 Unit OR LEASE NAME Juan 28-6 Unit
El Paso Natural Gas Comp 3. ADDRESS OF OPERATOR PO Box 990, Farmington,	NM 87401		5A 10. FIE	D AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in At surface 1700'S, 169 At proposed prod. zone same		State requirements.	11. SEC.	T, E, M., OR BLK. STRYEY, TE 285-N, R-6-W
14. DISTANCE IN MILES AND DIRECTION WROM NEARER 31 miles East of Blanco	, NM		Rio	NTY OR PARISH 13. STATE Arriba NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*	640 ¹	O. OF ACRES IN LEASE Unit ROPOSED DEPTH	17. NO. OF ACRES TO THIS WELL 20. RUTARY OR CAR	320.00
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6410 GR	1800	5885'	Rotary	PPROX. DATE WORK WILL START*
23. PF	OPOSED CASING AN	D CEMENTING PROGRA		
SIZE OF HOLE	nd sandwater osi test dou	ble gate prev	224 cu.ft 241 cu.ft 423 cu.ft	ipped with
blind and pipe rams will. This gas is dedicated.	l be used fo	r blow out p	revention	on this well
The E/2 of Section 14 is IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to drill or deepen directional	oposal is to deepen or	plug back, give data on pr	esent productive zor	
preventer program, if any.	y, give pertinent data	on substitute rocations as	- Medsured that true	- Contract depths. One browner
SIGNED XI F) Breeze	TITLE	Drilling (Clerk .	August 17,1978
(This space for Federal or State office use) PERMIT NO		APPROVAL DATE		BEIVED
APPROVED BY	TITLE		AU (G 2 2 1978
CONDITIONS OF APPROVAL, IF ANY:			*	1 _ Topic last

oh Frank

All distances must be from the outer boundaries of the Section.

C.prater			Lease	·	· · · · · · · · · · · · · · · · · · ·	Well Ho.
EL PASO NAT	URAL GAS COMP.	ANY	SAN JUA	N 28-6 UNIT	(NM-02805)	5A -
Unit Letter	Centron	Township	Hange	County		
J	114	28N	6W	Rio	Arriba	
Artual Footage Loc 1700	fact from the	South line and	1690	feet from the	East	Hne
Ground Level Elev. 6410	Producing For - Mesa Ve		Pool	nco Mesa Ver		ated Acreage: 20.00 — Acres
						
1. Outline in	e acreage dedica	ted to the subject w	en by colored	pencil or nachur	e marks on the pla	r below,
	an one lease is ad royalty).	dedicated to the wel	l, outline each	and identify the	ownership thereof	(both as to working
		ifferent ownership is nitization, force-pool		e well, have the	interests of all o	wners been consoli-
[□ Vas	· No Ho-	iswer is "yes," type o	ووالم والمراجع المراجع المراجع المراجع	Uni	itization	
Yes	No If ar	iswer is yes, type o	or consolidation.			
		owners and tract desc	criptions which	have actually b	een consolidated.	(Use reverse side of
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NATURAL GAS COMPANY

P. O. BOY 990 FARMINGTON, NEW MEXICO (2001) PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 28-6 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
- 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 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 5A

I. Location: 1700'S, 1690'E, Section 14, T-28-N, R-6-W, Rio Arriba County, NI

Field: Blanco Mesa Verde <u>Elevation:</u> 6410'GR

II. Geology:

Α.	Formation	Tops:	Surface	San J	ose	Lewis	3410'
		_	Ojo Alamo	2	2540 '	Mesa Verde	5005 '
			Kirtland	2	640 '	Menefee	5070 '
			Fruitland	3	3040 '	Point Lookout	5 4 35 '
			Pic.Cliffs	3	3255 '	Total Depth	5885 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4995', 5060', 5425' 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 3610'. 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"	3610 '	7"	20.0# K-55
		6 1/4"	3460-5885 '	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.

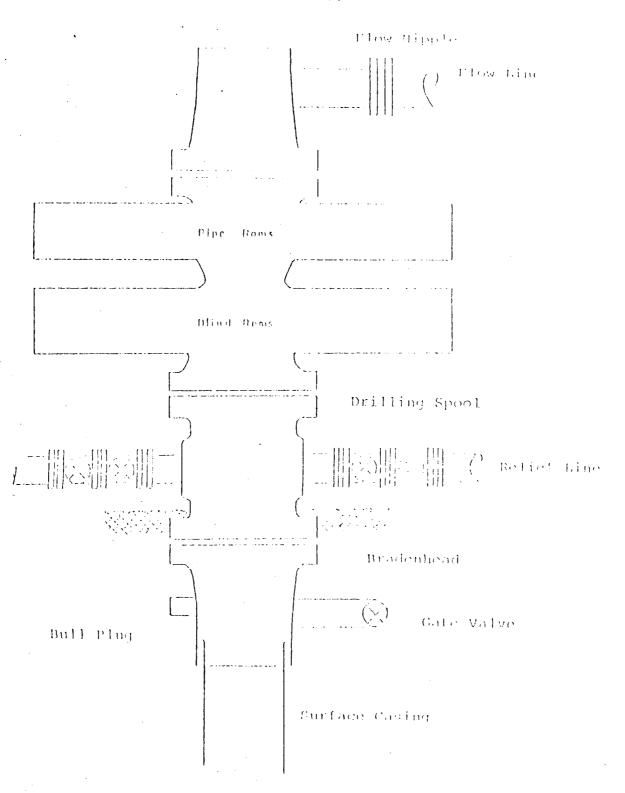
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5885' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

Operations Plan - San Juan 28-6 Unit #5A

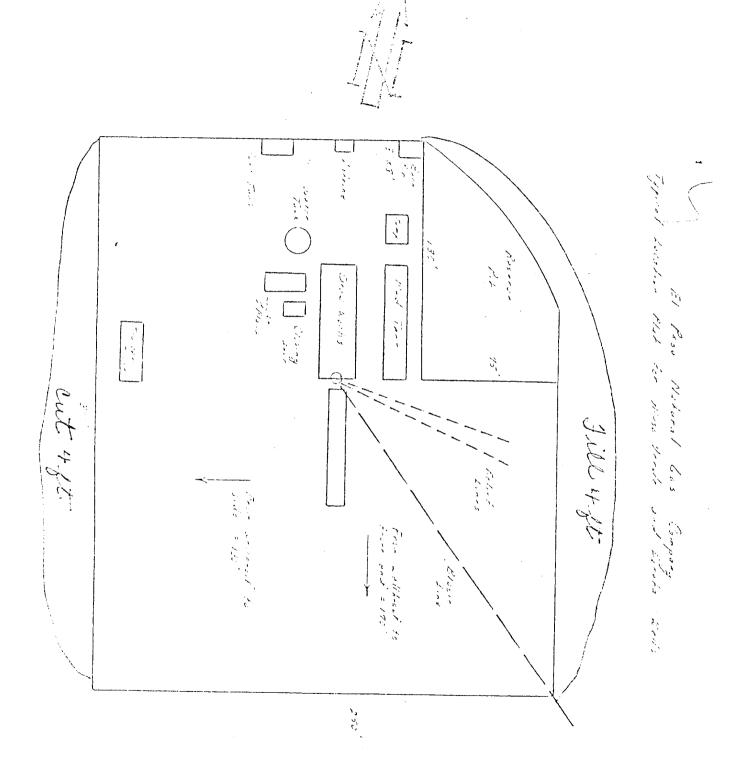
V. Cementing:

- 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 76 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 (241 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 304 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (423 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

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

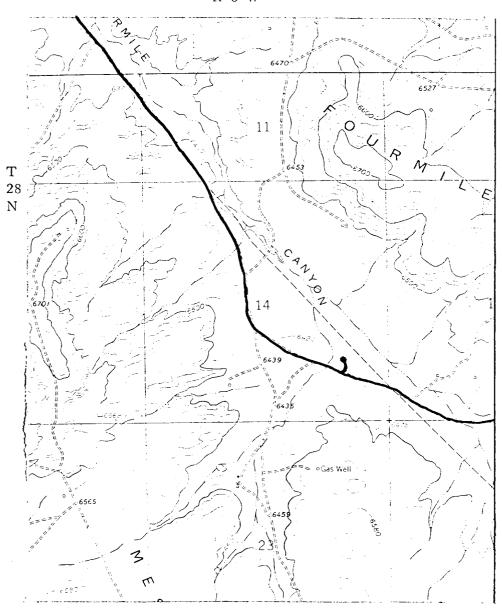


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



EL PASO NATURAL GAS COMPANY San Juan 28-6 #5 A SE 14-28-6





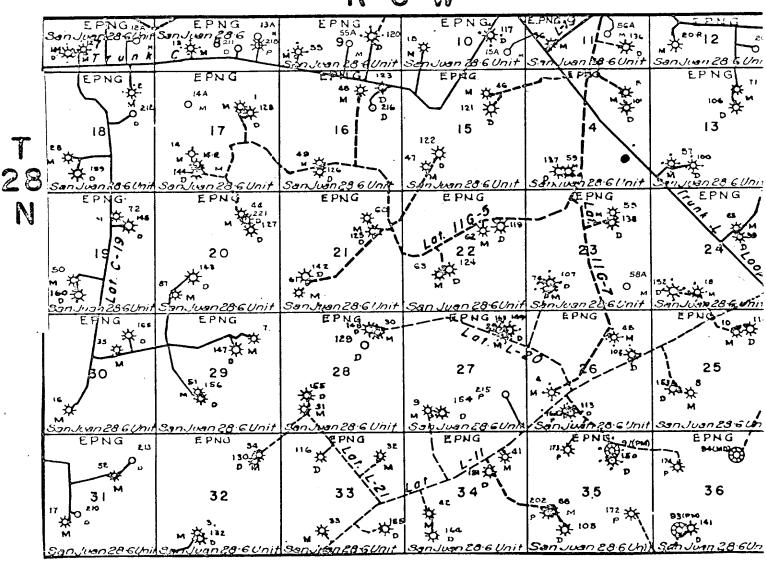
Map #1

LEGEND OF RIGHT-OF-WAYS

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

EL PASO NATURAL GAS COMPANY San Juan 28-6 #5 A SE 14-28-6

R-6-W



Map #2 Proposed Location ●