SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

ک	0	- 0	39-	- 2	190	X
5.	LEA	SE DES	IGNATION	AND	SERIAL	NO.
5	SF	079	383			
6	IF I	NIMAN	ALLOTTE	V /10	TRIBE N	A N. L.

	GEOL	OGICAL SURVET			51 079909		
APPLICATIO	N FOR PERMIT	TO DRILL, DEEP	PEN, OR PLUG B	ACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1. TYPE OF WORK	📉	DEEDENI []	DI LIC DA		7. CNIT AGREEMENT NAME		
	ILL 🖺	DEEPEN [PLUG BAG	LK 📋	San Juan 30-6 Unit		
	AS OTHER		SINGLE X MULTIP	LE	E. FARM OR LEASE NAME		
NAME OF OPERATOR	VELL OTHER		ZONE ZONE		San Juan 30-6 Unit		
	tural Gas Co	mpany			9. WELL NO.		
ADDRESS OF OPERATOR					100A -		
PO Box 990	, Farmington	, NM 87401			10. FIELD AND POOL, OR WILDCAT		
LOCATION OF WELL ()		nd in accordance with any	State requirements.*)		Blanco Mesa Verde 🎤		
At surface	1610'N, 1	.180'W			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zo	ne				Sec.35,T-30-N,R-7-V		
- '	same				NMPM		
DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH 13. STATE		
12 miles E	ast of Blanc	o, NM			Rio Arribal NM		
DISTANCE FROM PROP LOCATION TO NEARES	OSED*	16. 3	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL		
PROPERTY OR LEASE (Also to nearest dr	LINE, FT. ig. unit line, if any)	1030'	Unit	l	320.00		
DISTANCE FROM PRO		· ·	PROPOSED DEPTH	20. вота	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON T	IIS LEASE, FT.	2400'	6365'	Rota	ry		
ELEVATIONS (Show w	nether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*		
6847 ' GR							
		PROPOSED CASING AN	ID CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT			
13 3/4"	9 5/8"	32_3#	200'	224	cu.ft. to circulate		
8 3/4"	7"	20.0#	4045'	cu.ft.to cover Ojo Al			
37.		er 10.5#	3895-6365'	1	cu.ft.to fill to 3895		
A 3000 psi blind and	. WP and 6000) psi test dou .11 be used fo	uble gate pre	vente:	a Verde formation. r equipped with tion on this well.		
The W/2 of	Section 35 E PROPOSED PROGRAM: I	is dedicated	plug back, give data on p	resent pro	ductive have and proposed new productive and true vertical depths. Give blowout		
signed	J. Brisco	TITLE	Drilling	Cler	k DATE Sept.7, 197		
(This space for Fed	eral or State office use)						
PERMIT NO.			APPROVAL DATE	EC	EINEU		
APPROVED BYCONDITIONS OF APPRO	VAL, IF ANY:	TITLE		SEP 1	1 1970		
ah &	nek		11 0	05-	1910		
	•		D. 2	GEOLOG	ICAL Survey		

*See Instructions On Reverse Side DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Effective 1-(-65

All distances must be from the outer boundaries of the Section Leaso Well Do. (SF-079383) EL PASO NATURAL GAS COMPANY SAN JUAN 30-6 UNIT 1COA Br.d Letter Sentan Hange County E 30N 7W RIO ARRIBA Actual Footage Location of Well: 1610 feet from the North 1180 West Ground Level Elev. Producing Permation Fool Dedicated Acreages 6847 320.00 Mesa Verde Blanco Mesa Verde 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, climinating 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. Drilling Clerk 11801 Position El Paso Natural Gas Co. Company September 7, 1978 Date Sec 35 SF-079383 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. #100 0 Fred B. Ker Certain ato No.

FERNONS EDG TO THE LAND

3950



PICHBOXIGHT FARMINGTON, NEW MEXICO 87431 PHONE 505/325/2841

Multi-Point Surface Use Plan San Juan 30-6 Unit #100A

- 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 Francis Creek.
- 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 limids are left in the receive not 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 pinon, cedar and sage growing.

 Deer are occasionally seen on the proposed 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

6847'GR

Operations Plan San Juan 30-6 Unit #100A

Location: 1610'N, 1180'W, Section 35, T-30-N, R-7-W, Rio Arriba County, N I. Field: Blanco Mesa Verde Elevation:

II. Geology:

Α.	Formation	Tops:	Surface	San	Jose	Lewis	3842 '
			Ojo Alamo		2742 '	Mesa Verde	5540 '
			Kirtland		2927 ' .	Menefee	5640 '
			Fruitland		3378 '	Point Lookout	5912 '
			Pic.Cliffs		3734	Total Depth	6365'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5530', 5630', 5902' 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 4045'. 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"	4045'	7 "	20.0# K-55
		6 1/4"	3895 - 6365'	4 1/2"	10.5# K-55

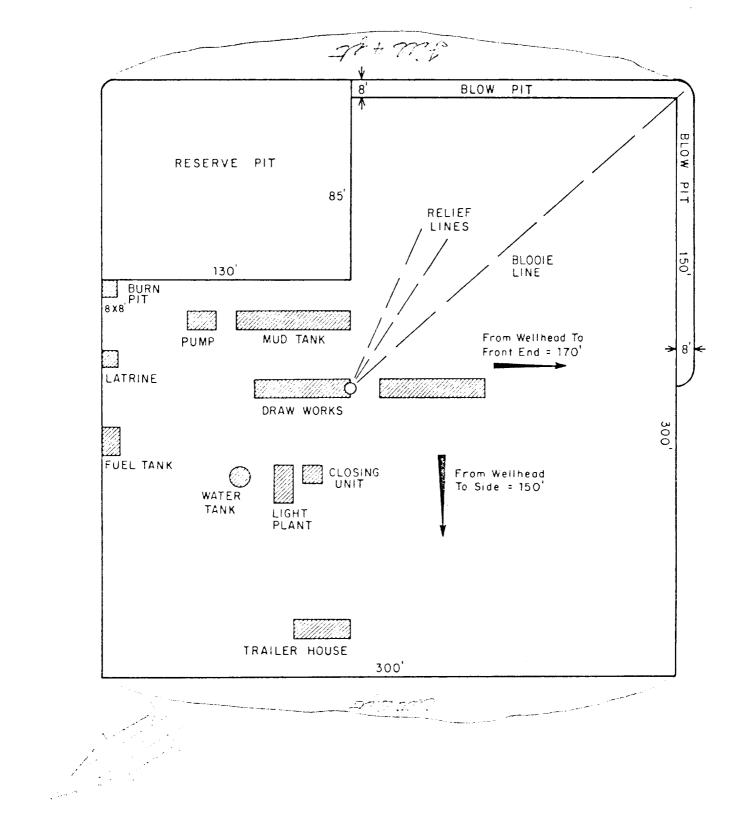
B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

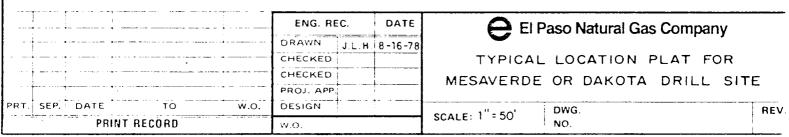
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 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: 6365' 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.

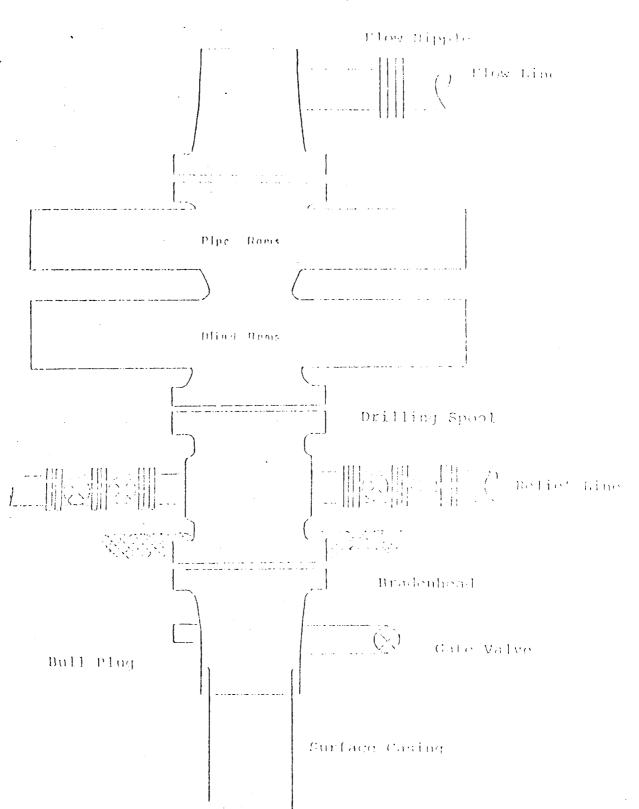
V. Cementing:

- 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 108 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 (294 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 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



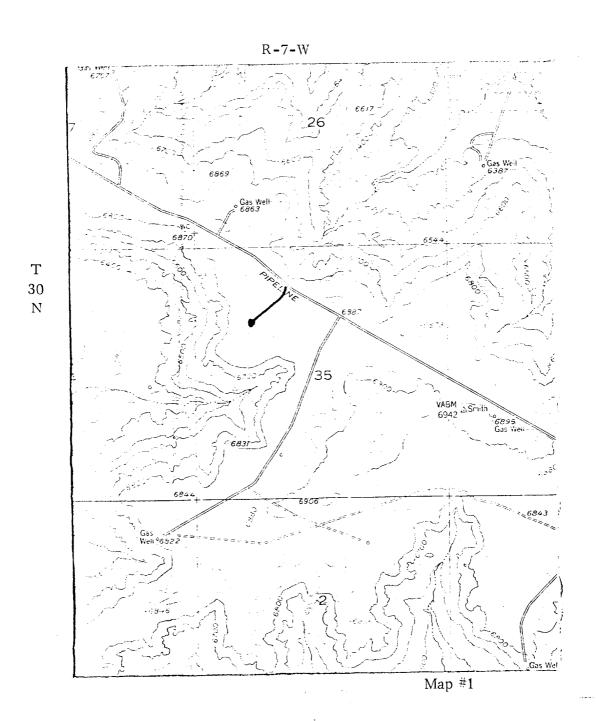


Typical W.O.t Installation for Mena Serde Well



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 Flowie line

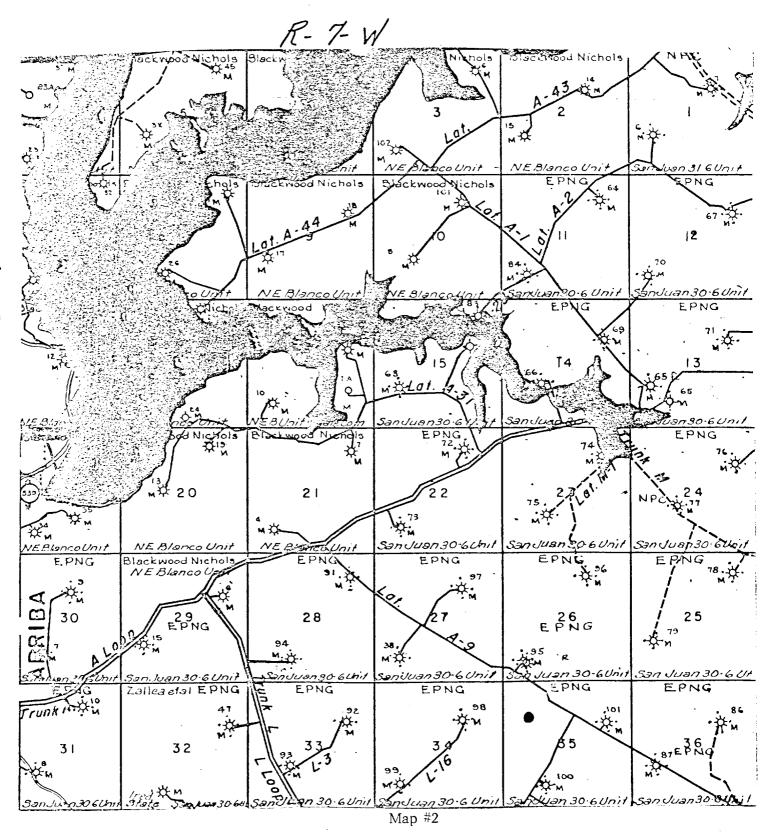
EL PASO NATURAL GAS COMPANY San Juan 30-6 #100 A NW 35-30-7



LEGEND OF RIGHT-OF-WAYS

EXISTING		+++	
EXISTING	PIPELINES		
	ROAD & PIPELIN	12 - 1 - 1 +	-
PROPOSED			-
PROPOSED	PIPELINES	++	
PROPOSED	ROAD & PIPELII	(E) - - - - - - - - - 	+

EL PASO NATURAL GAS COMPANY San Juan 30-6 #100 A NW 35-30-7



Proposed Location