1a. TYPE OF WORK

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES (Other instructions on reverse side) DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Budget Bureau No. 42-R1425.

30-039-21921
5. LEASE DESIGNATION AND SERIAL NO.
NM 012293
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

DR	DEEPEN L PLUG BACK L		Con Tuon 20 6 Unit				
b. TYPE OF WELL		sı	NGLE X	MULTIP	LE [San Juan 30-6 Unit 8. FARM OR LEASE NAME	
WELL WELL W	AS X OTHER		ZC	ONE A	ZONE		San Juan 30-6 Unit
El Paso Na	tural Gas Com	ıpany					9. WELL NO.
3. ADDRESS OF OPERATOR							70A <u> </u>
PO Box 990	, Farmington,	NM 8740	1				10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R	eport location clearly and		th any S	state requireme	nts.*)		Blanco Mesa Verde -
At surface	18)0'N, 82	0'W					11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zor	ie				_		Sec. 12, T-30-N, R-7W
	same						NMPM
	AND DIRECTION FROM NEAR		T OFFICE	E *			12. COUNTY OR PARISH 13. STATE
	ast of Blanco	, NM					Rio Arriba NM
15. DISTANCE FROM PROPO LOCATION TO NEARES	Г		16. NO). OF ACRES IN			OF ACRES ASSIGNED HIS WELL
(Also to nearest dri	g. unit line, if any)	820'		Uni	t		320.00_
 DISTANCE FROM PROF TO NEAREST WELL, D 	RILLING, COMPLETED,	01001	19. PR	OPOSED DEPTH		1	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH		2100'	<u> </u>	641	o'	Rotar	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*
6793 ' GL		 					
20.	Ι	PROPOSED CASH	NG ANI	O CEMENTING	F PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT	SETTING I	EPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#		20) '	224 c	u.ft. to circulate
8 3/4"	7"	20.0#		407) '		u.ft.to cover Ojo Ala
6 1/4"	4 l/2"line	r 10.5#		3920-6	415'		u.ft.to fill to 3920'
							equipped with
This gas is	s dedicated.					(5	
The $W/2$ of	Section 12 i	s dedicat	ed ·	to this	well.	. \ 01	The Colonial States
IN ABOVE SPACE DESCRIBE	PROPOSEL PROGRAM: If p	proposal is to deep	en or p	lug back, give	data on p	resent prod	ctive zone and proposed new productive I and true vertical depths. Give blowout
SIGNED	J. Bucc	· TII	LE	Dri	lling	Clerk	DATE 9-14-78
(This space for Fede	ral or State office use)					IX I	
PERMIT NO.				APPROVAL DATE		ЦÜ	
				ALT BOY ALL DATE	•	S	EP 1 8 1978
APPROVED BY		тіт	LE				DATE
CONDITIONS OF APPROV	AL, IF ANY :					11 5 0	EOLOGICAL SURVEY
oh fa	<u></u>						URANGO, COLO.

All distances must be from the outer houndaries of the Section

Operator		Wit or strategy into the	Lease	aries of tr	ne Section.		Well Ho.
EL PASO NA	SAN JUAN	30 - 6 U	NIT (N	M-012293			
Orat Letter cention Township			Hange		County		/
Actual Footage Loss		30N	7W		RIO	ARRIBA	
1800		North line and	820	feet f	from the	West	1056
Ground Level Erev. 6793	Producing Fo	witten Verde	Blanco	Mesá V	/erde		Dedicated Acreages 320.00 Acres
1. Outline the		ited to the subject w				marks on th	e plat below.
2. If more th interest an	an one lease is d royalty).	dedicated to the wel	l, outline each a	and ident	tify the c	ownership tl	nereof (both as to working
		if event ownership is un tization, force-pool		well, ha	ave the i	nterests of	all owners been consoli-
Yes	☐ No If a	nswer is "yes;" type o	of consolidation		Uni	tizatior	1
If answer i	s "no;" list the	ovmers and tract desc	criptions which h	ave actu	ially bec	en consolida	ated. (Use reverse side of
this form if	necessary.)						
ferced-pool	ing, or otherwise)	ed to the well until al o: until a non-standar	d unit, eliminati	been co: ng such	nsolidate interest:	ed (by comments) s, has been	munitization, unitization, approved by the Commis-
eion.							,
	1	X X X X X X X X X X X X X X X X X X X	1				CERTIFICATION
]	1 .	K	į		.	I horeby c	ertify that the information con-
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		· N				Drilli	ng Clerk
8201	1	ĺ.		•		losition El Pas	so Natural Gas Co.
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Ĵ	1	N	. [Septem Date	<u>ber 14, 1978</u>
	<u> </u>	Sec	 	,			
,	I NM-012293	12	The state of the s				
į ,	1						certify that the well location his plat was platted from field
	i ·					notes of a	ictual surveys made by me or
	1		9/			•	upervision, and that the same id correct to the best of my
	1.	K				knowledge	and belief.
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	1	X	1			2	Charles No.
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 30-6 Unit #70A

- 1. Existing Read 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 scil 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 bocation 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 last 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. Coyotes 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 #70A

I. Location: 1800'N, 820'W, Section 12, T-30-N, R-7-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6793'GL

II. Geology:

Α	. Formation Tops	: Surface	San Jose	Lewis	3873 '
		Ojo Alamo	2663 '	Mesa Verde	5594 '
		Kirtland	2852 '	Menefee	5699 '
		Fruitland	3323 '	Point Lookout	3963 '
		Pic.Cliffs	3730 '	Total Depth	6415 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5584', 5689', 5953' 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 4070'. 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"	4070'	7 "	20.0# K-55
		6 1/4"	3920-6415'	4 1/2"	10.5# K-55

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

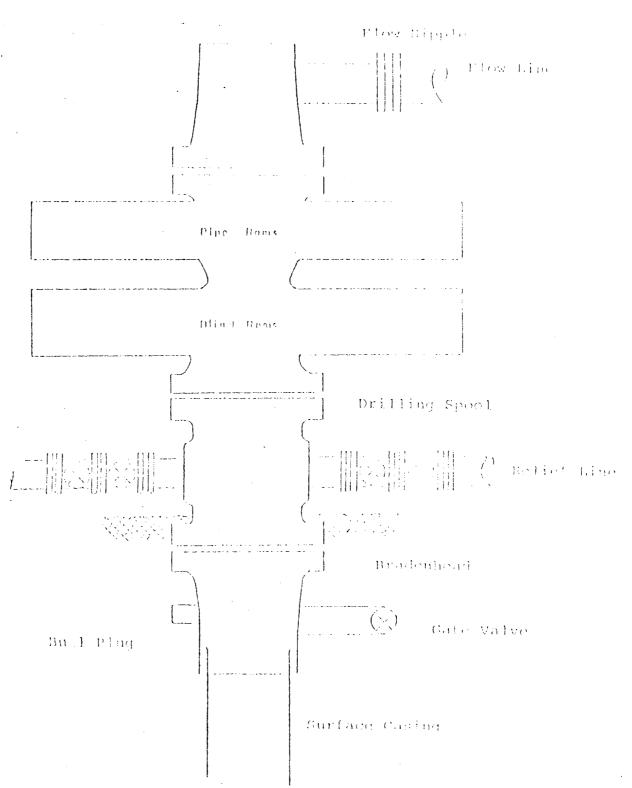
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 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&P).
- C. Tubing: 6415' 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.

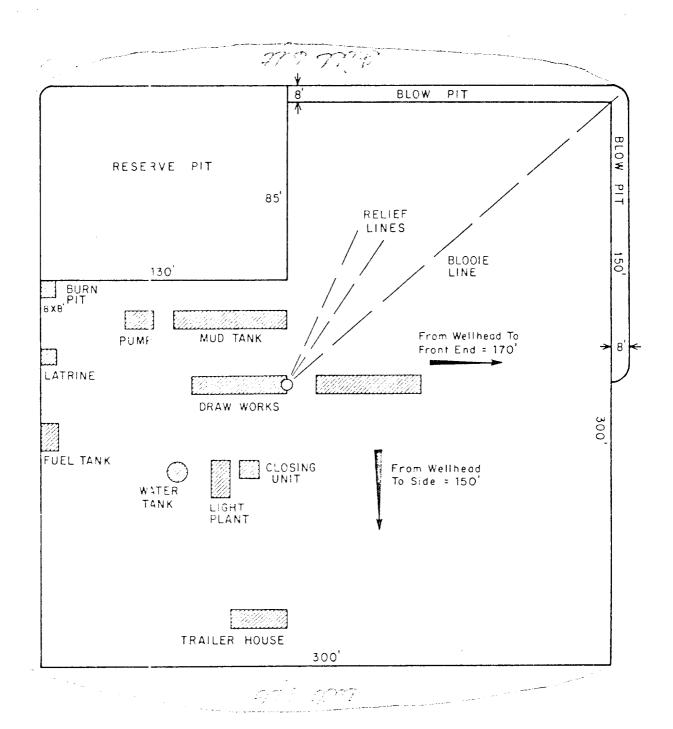
V. Cementing:

- 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 125 sks. of 65/35 Class "B" Poz with 6% gel and 2% calc.um chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (321 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 315 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (438 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

Typical N.O.) - Inclaffation for Mess Verde Well

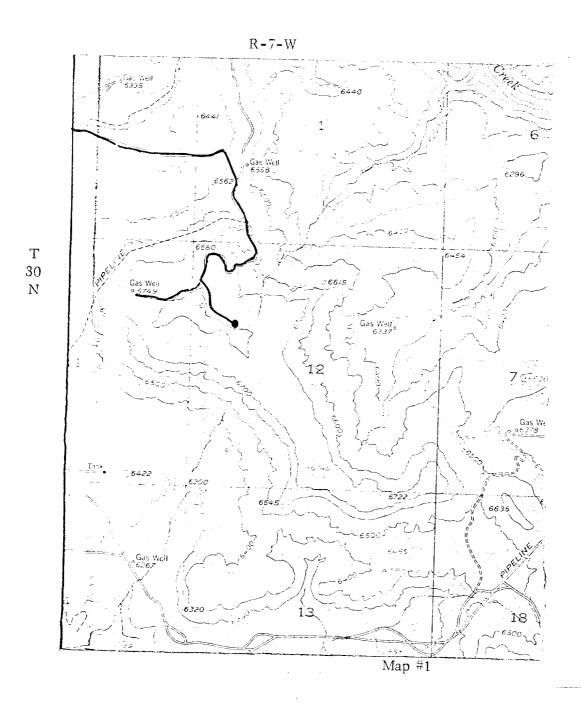


Series 900 Double Gate BOF, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



			ENG. REC.	DATE	El Paso Natural Gas Company	
**************************************			DRAWN JL.H	8-16-78		
·-•		ļ	CHECKED	T	TYPICAL LOCATION PLAT FOR	₹
			CHECKED		MESAVERDE OR DAKOTA DRILL S	SITE
•		+	PROJ. APP,		MEGAVERDE ON BAROTA BRIEF	J L
PRT. SEP. DATE	то	w.o.	DESIGN	,	DWG.	REV
PRINT P	ECORD		w.o.		SCALE: 1" = 50' DWG. NO.	

EL PASO NATURAL GAS COMPANY San Juan 30-6 #70 A NW 12-30-7

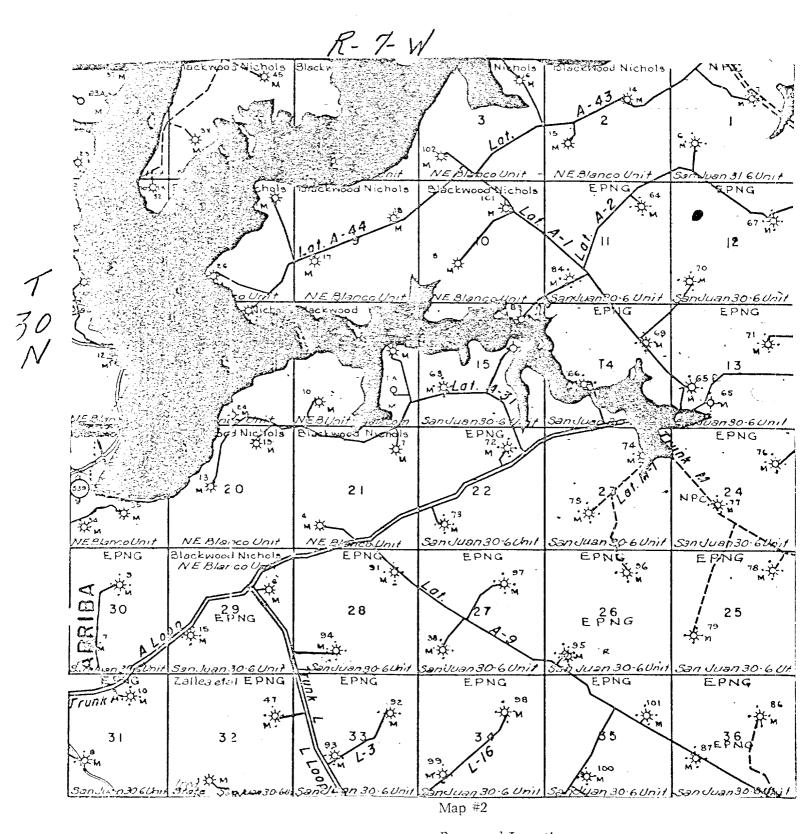


LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS -
EXISTING	PIPELINES +++
EXISTING	ROAD & PIPELINE
PROPOSED	ROADS
	PIPELINES + + +
PROPOSED	ROAD & PIPELINE

EL PASO NATURAL GAS COMPANY

San Juan 30-6 #70 A NW 12-30-7



Proposed Location