SUBMIT IN TRIPLICATE*

Form approved

(May 1963)				(Other instru	ctions on	Budget Bureau	No. 42-R1425.
,		ED STATES		reverse s		30-045-	23871
	DEPARTMENT	OF THE I	NTE	RIOR		5. LEASE DESIGNATION AT	
	GEOLO	GICAL SURVE	Ϋ́			SF 078097	
APPLICATION	I FOR PERMIT T	O DRILL, D	EEP	EN, OR PLUG E	3ACK	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
1a. TYPE OF WORK	LL []×	DEEPEN [PLUG BA	ск 🗆	7. UNIT AGREEMENT NAM	(E
b. TYPE OF WELL OIL GA	AS X OTHER			INGLE MULTIFONE ZONE	PLE	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR						Heaton	
El Paso Na	atural Gas Co	mpany				9. WELL NO.	
3. ADDRESS OF OPERATOR						8A	
PO Box 289	, Farmington	, NM 874	01			10. FIELD AND POOL, OR	WILDCAT
4. LOCATION OF WELL (Re	eport location clearly and	in accordance wit	h any	State requirements.*)		Blanco Mes	
At proposed prod. zon	1790'S, 1 * same	.570 ' E				11. SEC., T., R., M., OR BL AND SURVEY OR ARE, Sec. 30, T-3. NMPM	١
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAD	REST TOWN OR POST	OFFIC	E*		12. COUNTY OR PARISH	13. STATE
2 miles No	orthwest of A	ztec, NM				San Juan	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drlg		500 '		2475.61			=/ 320.00_
18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH				20. ROTARY OR CABLE TOOLS			
OR APPLIED FOR, ON THIS LEASE, FT. 850 Rotary							
21. ELEVATIONS (Show whe 5856 GL	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK	K WILL START*
23.	F	PROPOSED CASIN	IG AN	D CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OOT	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	36.0#		200'	224	cu.ft. to cir	culate_
8 3/4"	7 "	20.0#		2685'	352	cu.ft.to cove	r Ojo Alam
6 1/4"	4 1/2"lin	er10.5#		2535-5035'	445c1	i.ft.to circ.	liner
	•			•			

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 30 is dedicated to this wells

IN ABOVE SPACE DESCRIBE PROFOSED 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 p

preventer program, if any.	·	
81GNED D. J. Busco	TITLE Drilling Cl	Lerk DATE 9-20-79
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	(1) 19
APPROVED BY	TITLE	OCI ON COM
ok Freh	nmoce	OIL CONST. 3
	*See Instructions On Reverse Side	

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088 LINERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distances must be	from the cuter hou	mideries of the	Section.		
Cherator			Lease		(37, 27, 27)	Well No.	
EL PASO NATURAL GAS COMPANY			HEATON		(SF-078097)	8A -	
Unit Letter	Section	Township	Range	. C	county .		
J	30	31N	114	1	San Juan		
Actual Footage Loca 1790	_	outh line on	ı 1570	feet tr	om the East	line	
Ground Level Elev.	Producing For		Pool			edicated Acreage:	
5856	Mesa Ve	erde	B1	anco Mesa	Verde	320.00 -Acres	
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of							
No allowab	necessary.)le will be assigning, or otherwise)	or until a non-stand	ard unit, elimin	ating such i	solidated (by communication of the communication of	nitization, unitization, proved by the Commis-	
	!	Na San			c c	ERTIFICATION	
	 		 		tained herein	ify that the information con- is true and complete to the powledge and belief. Busco	
	·- +		 		- Name Drilling	Clerk	
	1 1	X			Position El Paso	Natural Gas Co.	
	l I Se	c. X	SF-0780	97	Company Septembe:	r 20, 1979	
	Con On	30	○	1570' FEE	shown on this notes of actu under my sup-	tify that the well location is plat was plotted from field and surveys made by me or ervision, and that the same correct to the best of my d belief.	
			1790'		August ? Registered Prot and/of Land Su Frod B	2	
0 330 660 -9	0 1320 1650 198	0 2310 7640 20	00 1500 1	000 800	0 39500 100	2 13	

EIPESO NATURAL GAS

₹. Existing Road, Multi-Point Surface Use Plan ₹. the ase tests

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All required have Planned Access Roads FARMINGTON, NEW MEXICO 87407 Roads , maintained during the please feet of the will be took the cess refer will above the constant of the sice of toads to measure with the feet the constant of the constan ocation of Existing Wells Please refer to Map No. 2. Ttion of tixtsting wells

Ttion of tixtsting wells

And Service tries, please refer to map wo.

I in No. Production facilities and consisting so will be served the serve to tries.

Are shown roads the serving so who refer to map wo.

The service tries are access hows thing so wo production maps production.

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 sagebrush flats with sagebrush growing. Cattle and 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.

L. A. Aimes

Project Drilling Engineer

Operations Plan Heaton #8A

I. Location: 1790'S, 1570'E, Section 30, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5866'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2486'
			Ojo Alamo	601 '	Mesa Verde	3866 '
			Kirtland	741'	Menefee	4101'
			Fruitland	1891'	Point Lookout	4636'
			Pic.Cliffs	2321'	Total Depth	5085 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 3855', 4090', 4625' 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 2685'. 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"	36.0 # K-55
		8 3/4"	2685 '	7"	20.0# K-55
		6 1/4"	2535-5085	4 1/2"	10.5# K-55

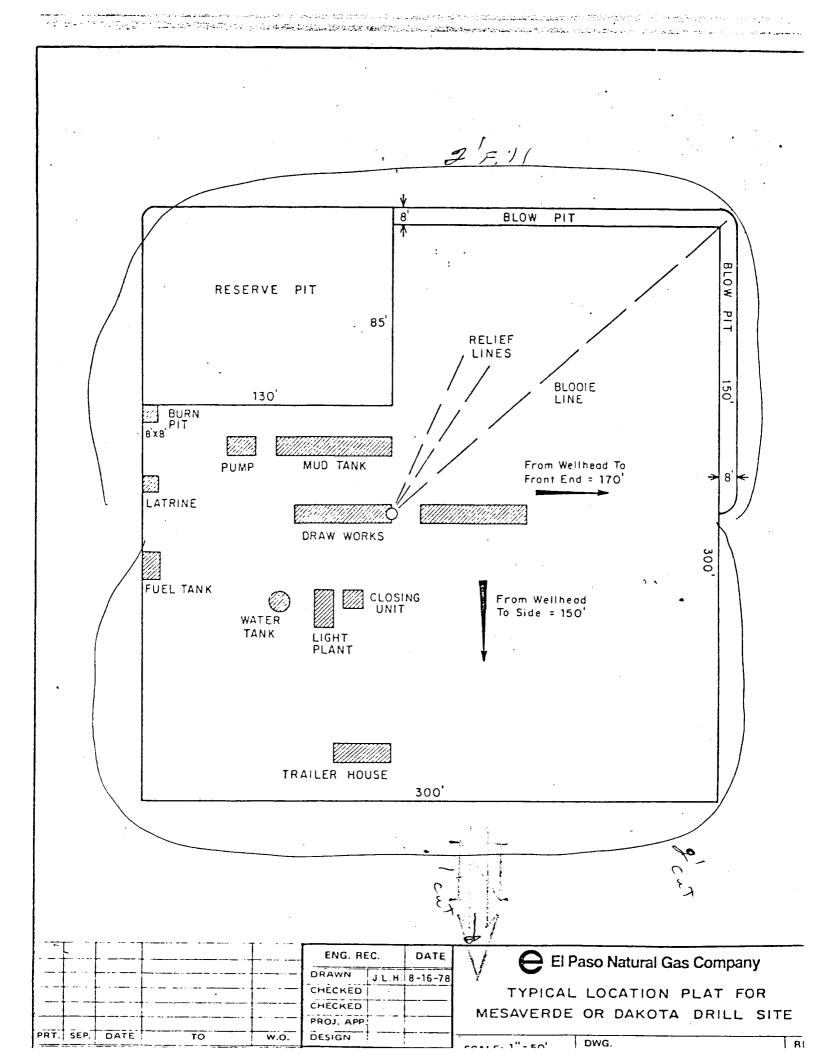
B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

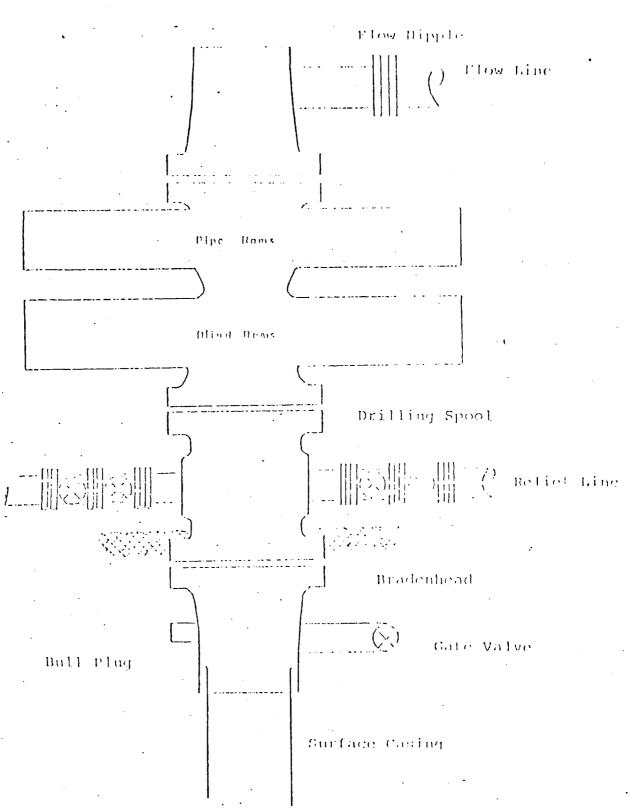
7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar
- C. Tubing: 5085' 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" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 xmas tree.

V. Cementing:

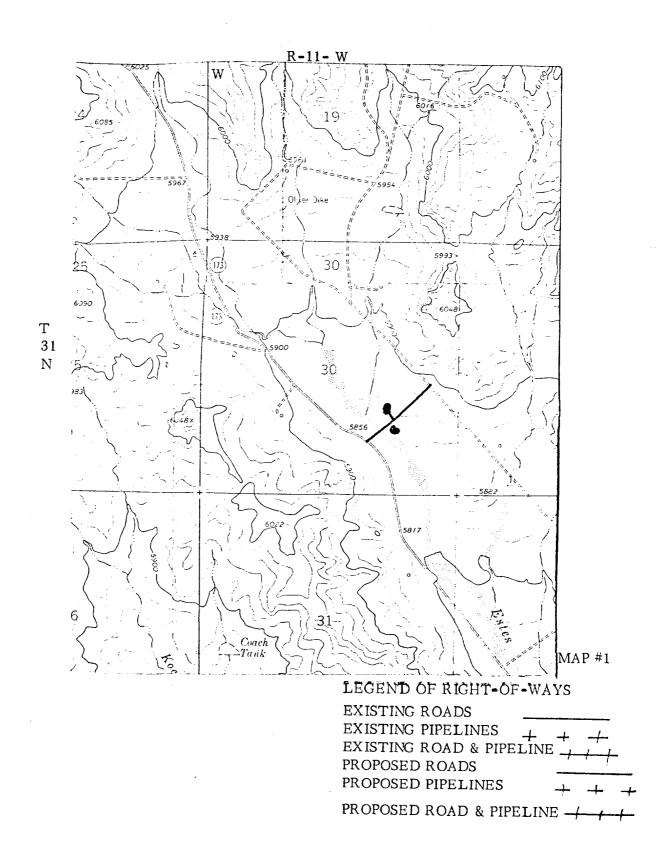
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 217 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (352 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 320 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (445 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



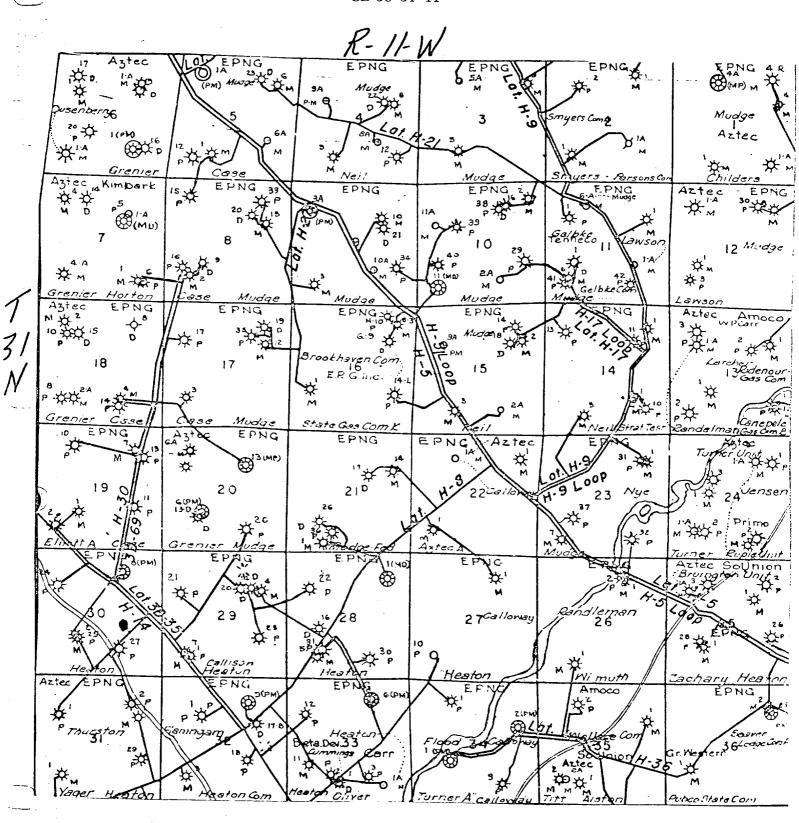


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

EL PASO NATURAL GAS COMPANY Heaton #8A SE 30-31-11



EL PASO NATURAL GAS COMPANY Heaton #8A SE 30-31-11



MAP #2
Proposed Location