SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

	LEASE	DESIGN	ATION	AND B	ERIAL I	NO.
3	0 -	03	39.	21	96	9
		~			101	120

	DEPARTMENT	OF THE II	NIEF	RIOR		5. LEASE DESIGNATION AND SERIAL NO.			
	SF 079266								
APPLICATION	N FOR PERMIT	O DRILL, D	EEPI	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
	LL 🖰	DEEPEN [PLUG BAC	CK 🗆	7. UNIT AGREEMENT NAME			
WELL G	ELL OTHER			NGLE X MULTIP	LE	8. FARM OR LEASE NAME			
2. NAME OF OPERATOR						Vaughn —			
	tural Gas Com	ıpany				9. WELL NO.			
ADDRESS OF OPERATOR	Earmington	NIM 0740	1			30			
	, Farmington,					10. FIELD AND POOL, OR WILDCAT			
At surface	eport location clearly and 2510'S, 15		h any S	tate requirements.*)		Basin Dakota			
-At proposed prod. zon	•	70 W				11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 28, T-26-N, R-6-			
	same					NMPM			
	AND DIRECTION FROM NEA			C.		12. COUNTY OB PARISH 13. STATE			
	orth of Couns	elors, NM				Rio Arriba NM			
5. DISTANCE FROM PROPO LOCATION TO NEAREST	r	3.5.5.	16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL			
(Also to nearest drig		1570		2560.00		ω /320.00			
 DISTANCE FROM PROP TO NEAREST WELL, D. 	RILLING, COMPLETED,	0001	19. PR	OPOSED DEPTH	1	RY OR CABLE TOOLS			
OR APPLIED FOR, ON THE		900'		7270 '	Rotar				
6421 GR	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*			
3.	I	ROPOSED CASIN	G ANI	CEMENTING PROGRA	М				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	or	SETTING DEPTH		QUANTITY OF CEMENT			
13 3/4"	9 5/8"	32.3#		200'	224 c	u.ft. to circulate			
8 3/4"&7 7/	8" 4 1/2"	10.5#&11	.6#	<u>7270'</u>	1319	cu.ft 3 stages			
2nd stage - 3rd stage -	1 353 cu.ft. - 539 cu.ft. - 427 cu.ft. 7 perforate a	to cover to cover	Mesa Ojo	a Verde Alamo	l Dako	ta formation.			
blind and p						equipped with ion on this well. CEIVE NOV 91978			
N ABOVE SPACE DESCRIBE		proposal is to deep	en or p	lug back, give data on pr	esent prod	S. GEOLOGICAL SURVEY			
one. If proposal is to overenter program, if any		lly, give pertinent	data o	n subsurface locations an	d measured	l and true vertical depths. Give blowout			
signed .	y Suisco	TIT	LE	Drilling	Clerk	DATE NOV. 6, 1978			
	ral or State office use)								
PERMIT NO.				APPROVAL DATE	-	 			
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY:		LE			DATE			

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-129 Effective 4-1-65

All distances must be from the outer boundaries of the Section. Well that EL PASO NATURAL GAS COMPANY VAUGHN (SF-079266) 30 Unit Letter didagwolf Honge County 26N 6W Rio Arriba Actual Footage Location of Well: South 1570 feet from the line and West Harr feet from the Ground Level Elev. Producing Permation F'col Dedicated Acreage: 6421 Dakota Basin Dakota 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? 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 of my knowledge and belief. None Drilling Clerk SF-078266 El Paso Natural Gas Co. Company Nov. 6, 1978 Sec 15701 28 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 helief. Date Surveyed 11. S. GEOLOGICAL SURVEY

1320 1650

1980 2310 2640

2000

EIPaso NATURAL GAS COMPANY

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

Multi-Point Surface Use Plan Vaughn #30

- 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 Tapicito Wash Water Hole.
- 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



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 cedar and 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

W - GEIAE

NOV 9 1978

Operations Plan - Vaughn #30

I. Location: 2510'S, 1570'W, Section 28, T-26-N, R-6-W, Rio Arriba County, NM Field: Basin Dakota Elevation: 6421'GL

II. Geology:

Α.	Formation	Tops:	Surface Ojo Alamo Kirtland Fruitland Pic.Cliffs Lewis	San Jose 1950' 2120' 2420' 2630' 2720'	Menefee Point Lookout Gallup Greenhorn Graneros Dakota	4345' 4870' 6030' 6792' 6851' 6999'
			Lewis	_		6999 '
			Mesa Verde	4300'	Total Depth	7270 '

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

D. Samples: none

III. Drilling:

A. Mud Program: mud from surface to Total Depth.

IV. Materials:

A. Casing Progra	m: <u>Hole Size</u>	Depth	Csg.Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	5570 '	4 1/2"	10.5# J-55
	7 7/8"	6500 '	4 1/2"	10.5# J-55
	7 7/8"	7270 '	4 1/2"	11.6# J-55

4 1/2" production casing - Howco guide shoe (Prod. No. 102-1) and self-fill insert valve (Prod. No. 177-13). Two Howco multiple stage cementers (Prod. No. 200-03) equipped for three stage cementing. Set tool for second stage at 5470' and tool for third stage at 2820'. Run 20 Howco centralizers (Prod. No. 200-03) spaced as follows: one on each of the bottom 8 joints, one below each stage tool and five above each stage tool spaced every other joint.

- C. Tubing: 7270' of 2 3/8", 4.7#, J-55 tubing with a common pump seating nipple and an expendable check valve with drill type guide.
- D. Wellhead Equipment: 10" 3000 x 9 5/8" WKM Brewster Type R casing head with 10" x 4 1/2" Type SA casing hanger, 10" 3000 x 6" 3000 Brewster xmas tree (Dwg. #1-004-78). Wellhead representative to set all slips.



V. Cementing:

Surface casing (13 3/4" x 9 5/8") - 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). WOC 12 hours. Test to 600#/30 min.

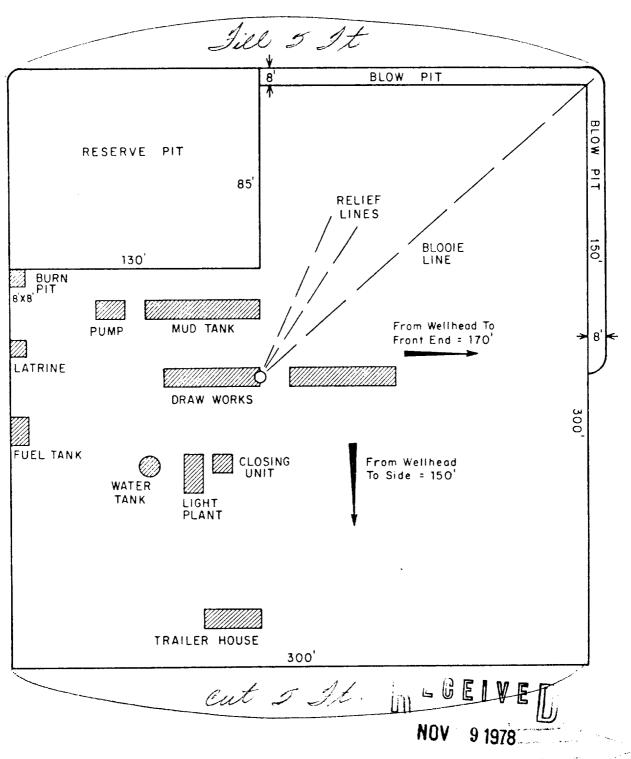
Production casing -

First stage (4 1/2" x 7 7/8") - use 132 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 100 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (353 cu.ft. of slurry, 25% excess to cover the Gallup).

Second stage (4 1/2" x 8 3/4") - circulate mud for 2 hours, then cement with 333 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (539 cu.ft. of slurry, 50% excess to cover the Mesa Verde).

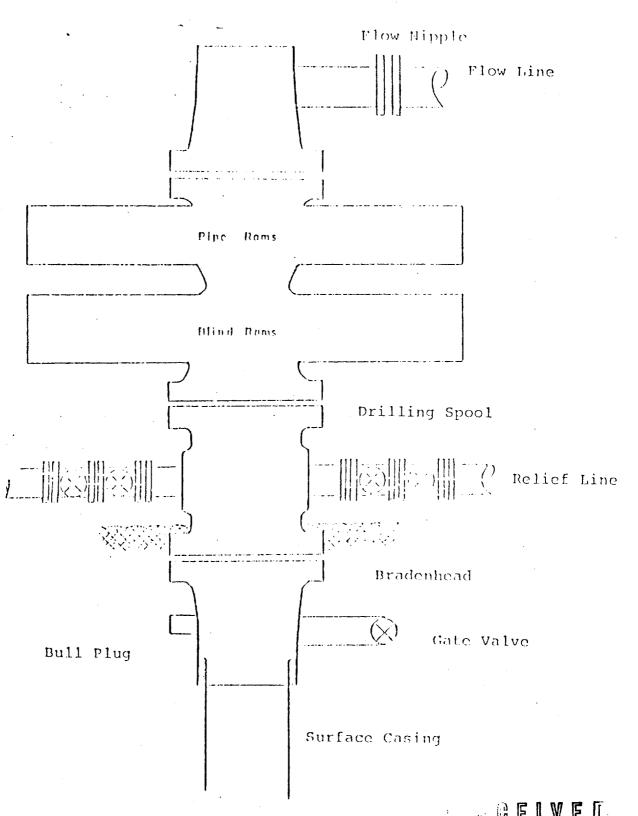
Third stage (4 1/2" x 8 3/4") - circulate mud for 2 hours, then cement using 264 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (427 cu.ft. of slurry, 60% excess to cover the Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.





11. S. GEOLOGICAL SURVEY

	1 -					ENG. RE		DATE	El Paso Natural Gas Company		
	ļ					DRAWN	J.L.H.	8-16-78	• • • •		
	ļ					CHECKED			TYPICAL LOCATION PLAT FOR		
	··			 		CHECKED			MESAVERDE OR DAKOTA DRILL SITE		
···		-				PROJ. APP			MEGAN ZARDE GAN DAMAGAN DAMAGA		
PRT.	. SE	Ρ.	DATE	TO	w.o.	DESIGN			SCALE: 1"=50' DWG. RE	V.	
1			PRI	NT RECORD		w.o.			NO.		



Scries 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.

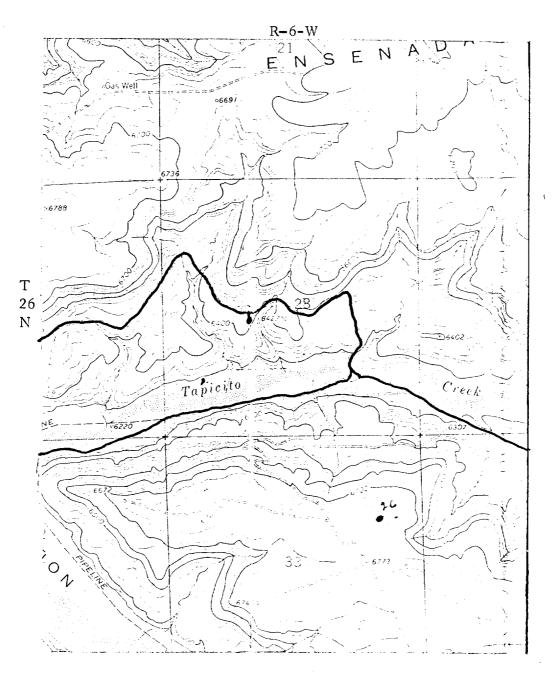
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S. GFOLOGICAL SURVEY

The flow nipple and the flow line is converted into a blowie line.

EL PASO NATURAL GAS COMPANY Vaughn #30 SW 28-26-6



NOV 9 1978

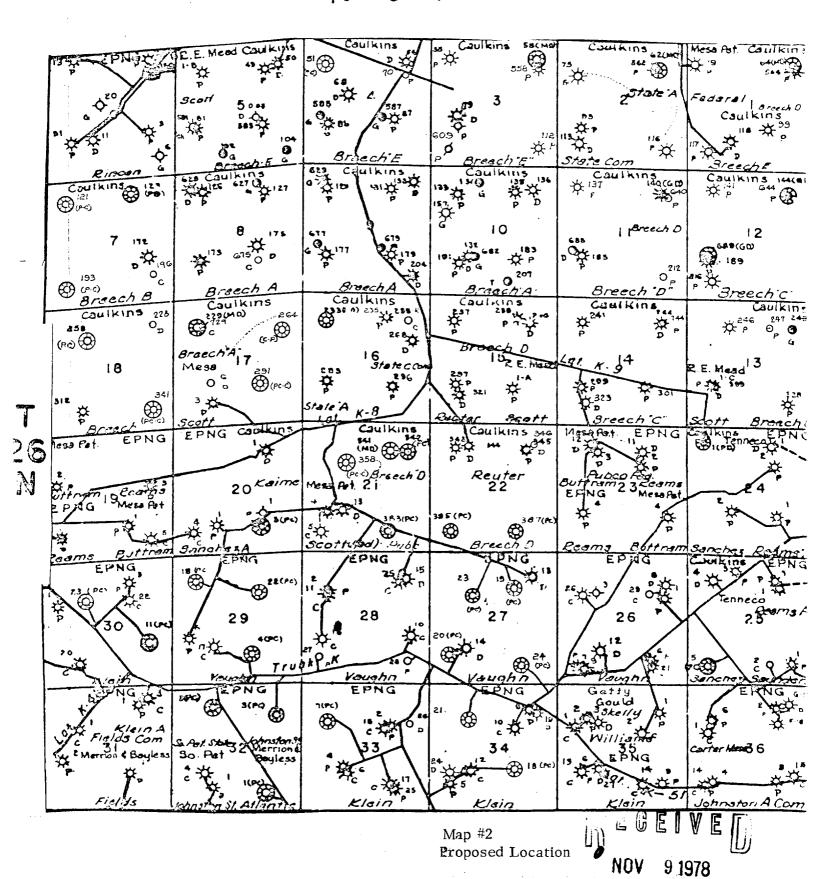
U. S. GEOLOGICAL SURVEY

Map #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	•		
EXISTING	PIPELINES		+	
EXISTING	ROAD & PIPELI	N⊡ - +		- •
PROPOSED	ROADS			
PROPOSED	PIPELINES	+	+	-4
PROPOSED	ROAD & PIPELI	TE _		1

R-6-W



11. S. GEOLOGICAL SURVEY