(Other Instructions

reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

0B	Form approved Budget Bureau	No.	42	101426.	
	30-045	 م	2	487	7
	30-045. 5. GEASE DESIGNATION	VD S	ERIA	di No.	

	GEOLO	GICAL SURV	EY			SF 078336 B		
APPLICATIO	n for permit	O DRILL, I	DEEL	PEN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME		
1a. Type of work	ILL [K]	DEEPEN [PLUG BA		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL G	AS IVI		,	UNGLE [7] MULTE	Pa. Pi - 7=-1			
OIL GAS WELL OTHER 2. NAME OF OPERATOR				SONE X MULTE		8. FARM OR LEASE NAME		
El Paso Natura	ıl Gas Company					Barrett 9. WELL NO.		
3. ADDRESS OF OPERATOR	tion and the management of the control of the contr				*****	3A		
Box 990, Farm	nington, New Mex	tico 87401 in accordance wit	hany	State requirements.*)		10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde		
At surface	W, 790'N					11. SEC., T., R., M., OR BLK.		
At proposed prod. zor	•					Sec. 20, T-31-N, R-9-W		
14 DISTANCE IN MILES	ANN DIDUCTION THOSE NO.					NMPM		
14. MOTANCE IN MILES	AND DIRECTION FROM NEAD	test town or post	COFFIC	ZE.₹		12. COUNTY OR PARISH 13. STATE		
15. DISTANCE FROM PROPE			16. N	O. OF ACRES IN LEASE	T. 17. No. (San Juan N. M.		
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drl;	INE, FT.					TO THIS WELL		
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*		-19, r	ROPOSED DEPTH	20. кота	319.80 20. ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	IS LEASE, FT.		5	935'		Rotary		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
6490' GL			· 					
	b	ROPOSED CASIN	IG AN	D CEMENTING PROGR.	A M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют	SETTING DEPTH		QUANTITY OF CEMENT		
13 3/4"	9 5/8''	32.3#		200'	224 c	u. ft. to circ. to surface		
8 3/4"	7''	20#		37 <u>30'</u>	394 cı	ı. ft. to cover Ojo Alamo		
6 1/4''	4 1/2" Liner	10.5#		3580-5935'	410	eu. ft. to fill to 3580'		
A 3000 psi WP a	forate and sand vand 6000 psi test out prevention or	double gate				nd and pipe rams will be		
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				S. Carrier	- 24 A. S.			
				i,	02 5	3/		
The $W/2$ of	Sec. 20 is ded	licated to thi	is wo	ell.	State of the State			
N ABOVE SPACE DESURING	PROPOSED PROGRAM: If p	roposal is to deep	en or i	dug back, give data on m	esent prodi	ictive zone and proposed new productive		
one. If proposal is to observenter program, if any	UCH er deepen directional r.	lly, give pertinent	data c	in subsurface locations in	id mensured	and true vertical depths. Give blowout		
SIGNED /	y. Buces	TITI	ж]	Drilling Clerk		DATE April 11, 1977		
(This space for Feder	ral or State office use)			- Annual Control of the Control of t				
PERMIT NO.				APPROVAL DATE				
LIII MANAGARA CAN								
CONDITIONS OF APPROVA		TIT!	.E			DATE		

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well No. Leaso Operator (SF-078336-B) 3A BAERETT EL PASO NATURAL GAS COMPANY Hange Township Unit Letter Section SAN JUAN 9-W 20 31-N Actual Footage Location of Well: NORTH 790 WEST 1000 teet from the feet from the line and Dedicated Acreage: Producing Formation Pool Ground Level Elev. 319,80 BLANCO MESA VERDE Acres MESA VERDE 6490 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, torced-pooling, or otherwise) or until a non-standard unit, eliminating 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. 1000 Drilling Clerk Position El Paso Natural Gas Company April 11, 1977 SECTKON 20 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 SF-078336-B is true and correct to the best of my knowledge and belief. Date Surveyed MARCH 28, 1977 Registered Professional Engineer

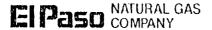
PARTICIONAL T. I.

1000

2600

1320 1650

1760



P. O. BOX 900 FARMINGTON, NEW MEXICO: 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan

Barrett #3A

- 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 a water hole located at Hart Canyon Water Well
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- Methods of Handling Waste Materials All garbage and trash 7. 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 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 earther 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. With Seed Mixture #2.

 The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted Green Federal Standard #595 34127
- 11. Other Information The terrain is sand stone ledges covered with pinon and cedar trees. Deer graze the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 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.

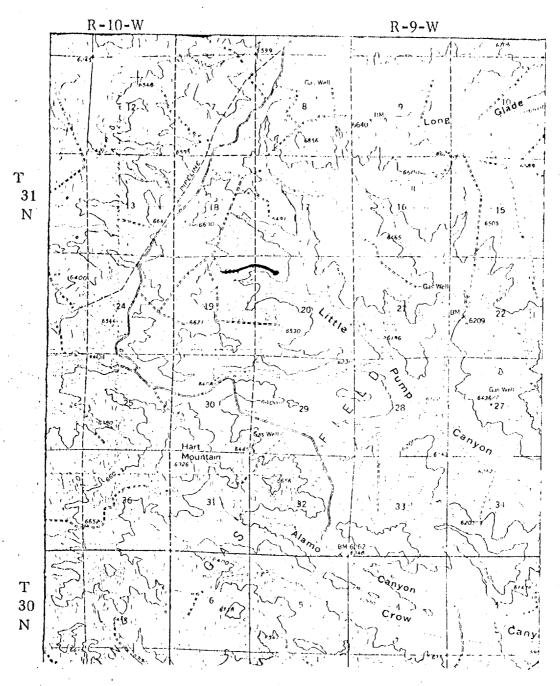
April 11, 1977

D. R. Read

Division Drilling Engineer

DRR:dgb

EL PASO NATURAL GAS COMPANY BARRETT #3A NW 20-31-9



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS			
EXISTING	PIPELIMES	-+-	+	+
EXISTING	ROAD ~ PIFELIN	[·] +	-1-	L.
PROPOSED	ROADS			
FROPOSED	PIPELINES	+	+	-4
PROPOSED	ROAD A PIPELIN	() -4	-	-+

EL PASO NATURAL GAS COMPANY BARRETT #3A NW 20-31-9

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MAF #2

Proposed Location

Operations Plan

Barrett #3A

I. Location: 1000'W, 790'N, Sec. 20, T-31-N, R-9-W, San Juan County, New Mexico

Field: Blanco Mesa Verde Elevation: 6500' DF

II. Geology:

Λ.	Formation	Tops:	Surface Ojo Alamo Kirtland Fruitland	San Jose 1980' 2040' 2965'	Lewis Mesa Verde Menefee Point Lookout	3530' 5070' 5185' 5535'
	•			2 965'		5535'
			Pic.Cliffs	3335'	Total Depth	5935'

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 5060', 5175' 5525' 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 3730° . Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing	Program:	Hole Size	$\frac{\text{Depth}}{200'}$	Casing Size 9 5/8"	Wt.&Grade 32.3# H-40
			8 3/4"	3730'	7"	20.0# K-55
			6 1/4"	3580-5935'	4 1/2"	10.5 # K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - T.I.W. liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).

- C. Tubing: 5935' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

Operations Plan - Barrett #3A

V. Cementing:

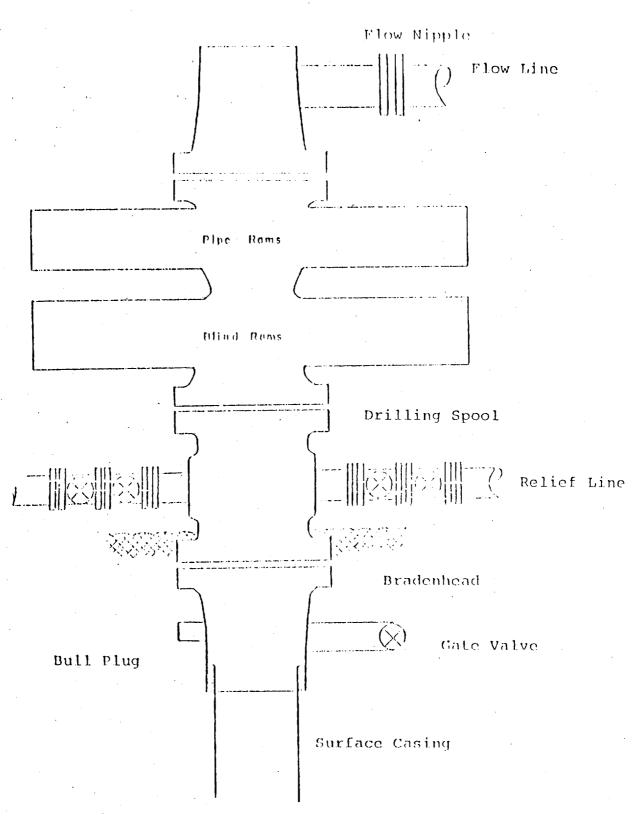
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing — use 103 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (394 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 228 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (410 cu.ft. of slurry, 70% excess to circulate liner).

Wells from wellhoad to Typical Location Plat for Mess Verde and Water's Fill 8 ft at 10 th 1,2% Draw Roores Mud Tank 1.05 cor. Na.

Typical B.O.^o. Installation for Mesa Verde Well



10" 900 x 9 5/8" casing head 10" 900 x 6" 900 xmas tree