Form approved.
Budget Bucana N

### UNITED STATES

	rought	Durend	No.	9.2	101420	
$\Im$	. 04	<	J :	<b>5</b>	401	,

DEPARTMENT OF THE INTURIOR				5. LEASE DESIGNATION ON SERIAL NO.				
GEOLOGICAL SURVEY					SF 078336 B			
_ APPLICATIO	N FOR PERMIT	O DRILL,	DEE	'EN, OR P	LUG I	ЗАСК	6. IF INDIAN, ALLOTTER OR THINE NAME	
In. TYPH OF WORK	ou i Mi	DEEDELL				t " " 1	7 700	
DE TYPE OF WELL	RILL K]	DEEPEN		PLU	JG BA	CK [_]	7. UNIT AGREEMENT NAME	
	GAS OTHER			NINGLE X	MULTH	[] M.I.	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR	ethinis on non es soniaisek kalenderija ja ja saise se i i i i i i i i i i i i i i i i i						Barrett	
El Paso Natur	al Gas Company						9. WELL NO.	
3. ADDRESS OF OPERATOR		<b></b>				•	2A	
Box 990, Fari	nington, New Mex Report location clearly and	ico 87401	ith any	State requireme	11H.*)		Blanco PC Ext. & Blanco M	
1500'S,	920'E						11, SEC., T., R., M., OR BUK	
At proposed prod. zo							Sec. 19, T-31-N, R-9-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR PO	ST OFFI	CE*			N. M. P. M.  12. COUNTY OR PARISH   13. STATE	
							San Juan N. M.	
15. DISTANCE FROM PROF LOCATION TO NEARES	ST		16. 1	NO. OF ACRES IN	LEASE	17, 80, 6	F ACRES ANSIGNED HIS WELL	
PROPERTY OR LEASE (Also to nearest dr	lg. unit line, if any)		1			"	158.64 & 315.08	
	DRILLING, COMPLETED.		19. PROPOSED DETTH 20. RO		20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	HIS LEASE, FT. helher DF, RT, GR, etc.)		5	5990'			Rotary	
	nether Dr. Kr. GR. etc.)						22. APPROX. DATE WORK WILL START*	
6529' GL		ROPOSED CASI	NC AN	Its Citate in him had				
				CEMIENTING	PROGRA	\ M1 		
13 3/4"	9 5/8"	WEIGHT PER H	'00T	SETTING D	SPTH		QUANTITY OF CEMENT	
8 3/4"	9 3/ 8	32.3#	· · · · · · · · · · · · · · · · · · ·	200'			u. ft. to circ. to surface	
6 1/4''	/ 1/2" Times	20#		3770'			ı. ft. to cover Ojo Alamo	
0 1/4	4 1/2" Liner	10.5#		3620 - 599	90.	413	cu. ft. to fill to 3620'	
Selectively per	rforate and sand v	vater fracti	ire t	he Mesa Vo	erde 8	Pictur	ed Cliffs formations	
A 3000 pei WD	and 6000 nai toat	daulda ante		4				
used for blow	out prevention or	this well.	e pre	ventor equ	ipped v	with bli	nd and pipe rams will be	
				A CONTRACTOR OF THE PARTY OF TH	1	•		
The gas is ded	icated			and the second		Park C.	and the second second second	
•				/	1	<u> </u>	KECEIVED	
				1000	3 SH	•		
				1 OIL			APR 1 2 1977	
				100	· · ·	A CONTRACTOR OF THE PARTY OF TH	11 6 0501	
		licated to tl			THE RESERVED	•	U. S. GEOLOGICAL SURVEY	
n anove reace beacens one. If proposal is to reventer program, if as	arm or derpen directional	roposal is to dee ly, give perlinen	pen or Eduta	plug back, give c on subsurface to	lata on pr attens as	egent prod d measured	uctive zone and proposed new productive Land true vertical depths. Give blowout	
4.	1.							

(This space for Federal or State office use) PERMIT NO. \_ CONDITIONS OF APPROVAL, IF ANY :

### WELL L CATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Operator Lease Well No. EL PASO NATURAL GAS COMPANY (SF-078336-B) BARRETT 2A Section Unit Lette: Township Range County I 19 31-N 9-W SAN JUAN Actual Footage Location of Well: 1500 SOUTH feet from the EAST line and PO BLANCO PLANCO Ground Level Eley. Producing Formation Dedicated Acreage: 158.64 6529 P. C.&MESA VERDE 315.08 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? Yes l 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 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, eliminating such interests, has been approved by the Commis-THIS PLAT IS REISSUED TO SHOW DUAL COMPLETION. 4-5-77 sion. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Drilling Clerk El Paso Natural Gas Co. SF-078336-B April 12, 1977 SECRION 19 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. Date Surveyed MARCH 30, 1977 Registered Professional Engineer ertificato No 1760

1500

1000

660

1320 1650

1980



P G BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505 325-2841

## Multi-Point Surface Use Plan Barrett #2A

- 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
- 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 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. Using 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 rolling hills and sand stone ledges covered with cedar and sage brush. Deer and cattle 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.

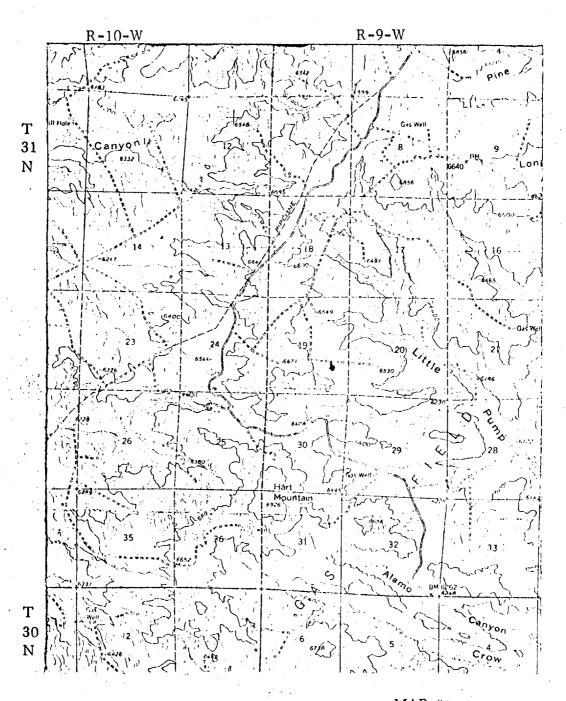
April 12, 1977

D. R. Read,

Division Drilling Engineer

DRR:dgb

# EL PASO NATURAL GAS COMPANY BARRETT #2A SE 19-31-9

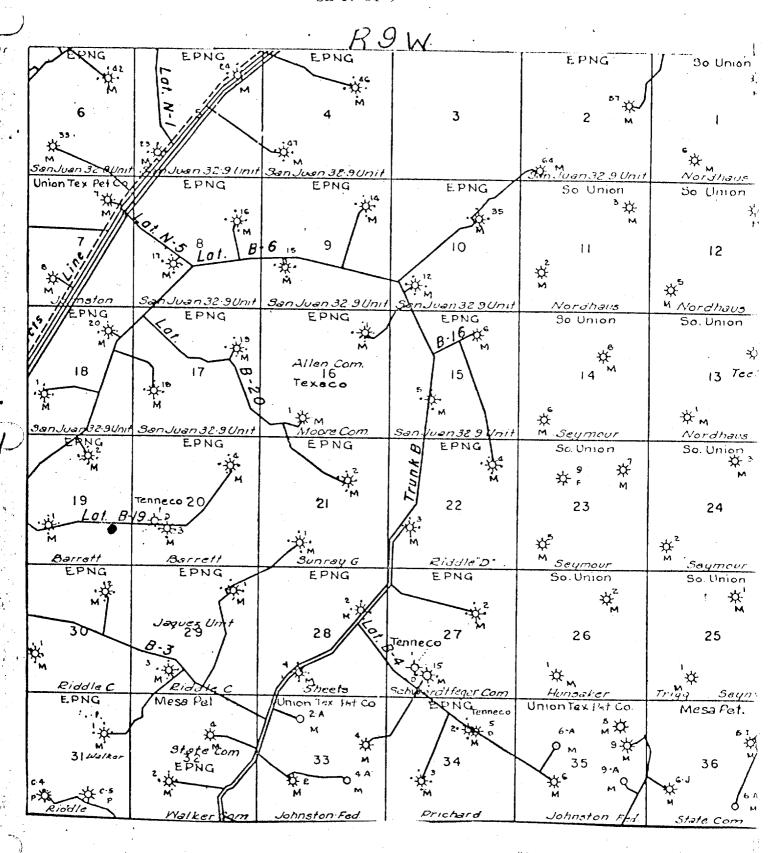


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	-
EXISTING	PIPELINES	<b>→</b> + <del>+</del>
EXISTING	ROAD & PIPELII	VE-1-1
PROPOSED	ROADS	
PROPOSED	FIFELIMES	+ + +
PROPOSED	ROAD & PIPELI	ME <del>         </del>

## EL PASO NATURAL GAS COMPANY BARRETT #2A SE 19-31-9



MAP #2

Proposed Location

### Operations Plan Barrett #2A

I. Location: 1500'S, 920'E, Sec. 19, T-31-N, R-9-W, San Juan County, New Mexico

Field: Blanco Mesa Verde & Blanco Pictured Cliffs Ext. Elevation: 6539' DF

#### II. Geology:

Α.,	Formation Tops:	Surface	San Jose	Lewis	3570'
		Ojo Alamo	2005'	Mesa Verde	5110'
		Kirtland	2070'	Menefee	5225'
		Fruitland	3005'	Point Lookout	5590'
		Pictured Cliffs	3375'	Total Depth	5990'

- B. Logging Program: I-ES and GR-Density at 3770'. GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: None
- D. Natural Gauges: 5100', 5215', 5580' 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 3770'. Gas from intermediate casing to Total Depth.

### IV. Materials;

Α.	Casing Program:	Hole Size	Hole Size Depth		Wt. & Grade	
		13 3/4"	200'	9 5/8''	32.3# H-40	
		8 3/4''	3770'	7''	20.0# K-55	
		6 1/4''	3620-5990'	4 1/2"	10.5# K-55	

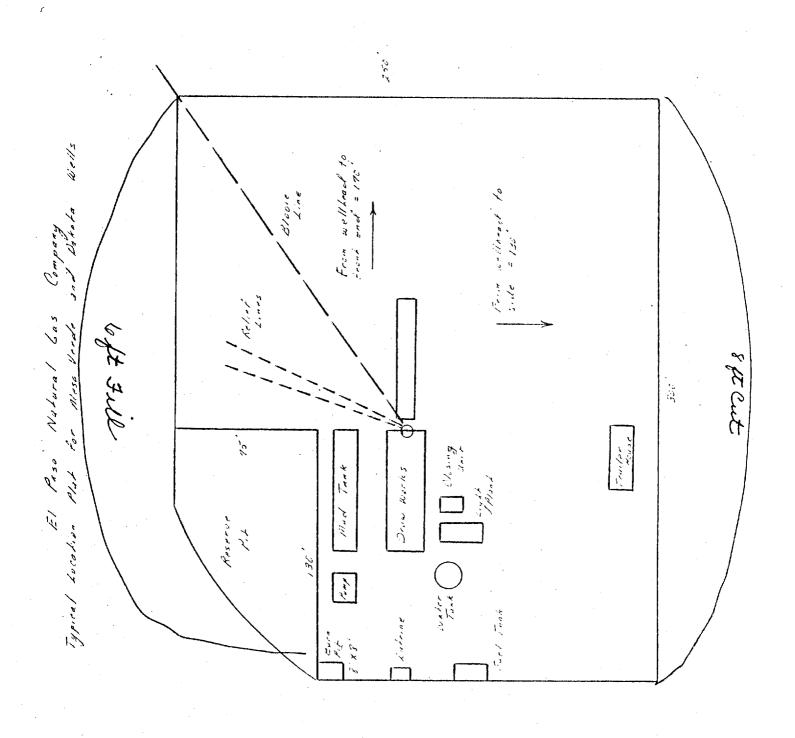
B. Float Equipment: 9 5/8" Surface Casing - Larkin guide shoe (fig. 102)

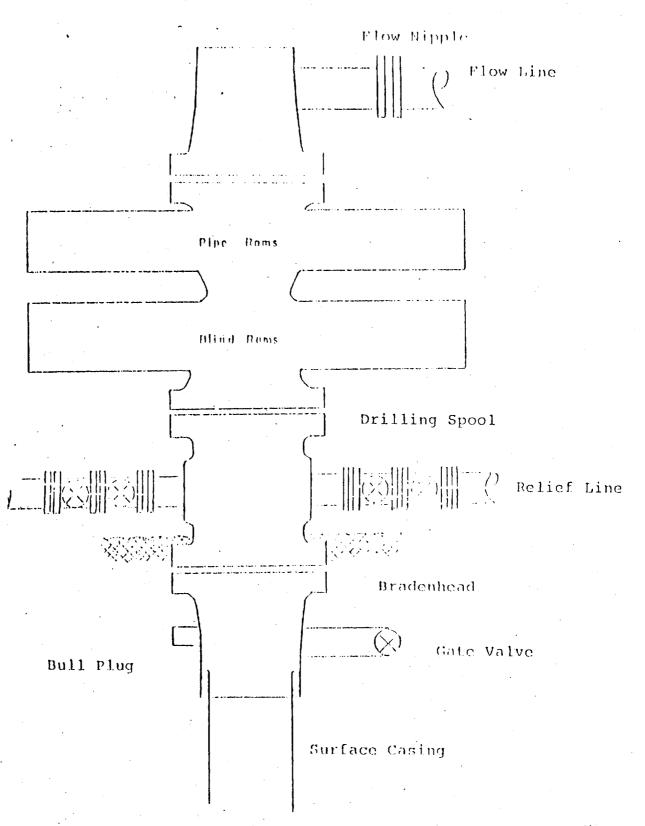
7" Intermediate Casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B & W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" Liner T. I. W. liner hanger with neoprene packoff. A polished bore receptical or production packer will isolate the two zones. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M & F).
- C. Tubing: 5990' of 2 3/8", 4.7#, J-55 8 rd 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.

### 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  $106\,$  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 (397 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 229 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (413 cu.ft. of slurry, 70% excess to circulate liner).





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