APPROVED BY _

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

(Other instructions on reverse side)

DEPARTMENT OF THE INTERIOR					30-045-22424 5. LEASE DESIGNATION AND SERIAL NO.				
GEOLOGICAL SURVEY					NM 012647				
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
1a. TYPS OF WORK						7 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18			
b. TYPEOF WELL	ILL 🗵	DEEPEN		PLUG BA	CK 📙	7. UNIT AGREEMENT	NAME		
OIL G	AS X OTHER			HINGLE MULTIS	PLE	8. FARM OR LEASE I	FAME		
2. NAME OF OPERATOR						Riddle D			
El Paso N 3. ADDRESS & OPERATOR	atural Gas Co	ompany				9. WELL NO.			
•	O Earmington	3734 07	407			3A			
4. LOCATION OF WELL (R	0, Farmingtor eport location clearly and	in accordance wi	th any	State requirements.*)		10. FIELD AND POOL, OR WILDCAT			
At surface	1015's, 16		_	<u>.</u>		Blanco Mesa Verde 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zon	•					Sec. 22. T	-31-N, R-9	W	
14						NMPM	31 N, N	**	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFIC	E.		12. COUNTY OR PARIS	BH 13. STATE		
15. DISTANCE FROM PROPO	SED*		1 16 N	O OF ACRES IN I PAGE	1 17 NO 0	San Juan	NM		
PROPERTY OR SEAREST	r .ine. ft.		10. "	16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	212 00		
(Also to nearest drig 18. DISTANCE FROM PROP	OSED LOCATION*		19. P	ROPOSED DEPTH	20. ROTAL	BY OR CABLE TOOLS	312.88	312.88	
TO NEAREST VELL, I) OR APPLIED FOR, ON THE	IS LEASE, FT.			5744'	Rotar				
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)		·		1,	22. APPROX. DATE V	VORK WILL START		
6274'GL							4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
23.	P	ROPOSED CASI	NG AN	D CEMENTING PROGRA	AM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEPTH		QUANTITY OF CEM	ENT		
13 3/4"	9 5/8"	32.3#		200'	224	cu.ft. to circulate			
8 3/4!		20.0#		3400'		.ft.to cov		mo	
6 1/4"	4 1/2"	10.5#		3250-5744'	435 c	u.ft. to f	ill to 325	0 '	
Selective	ly perforate	and sand	wate	r fracture +1	he Mes	aVerde for	mation		
A 3000 psi	L WP and 6000	psi test	t do	uble gate pro	evente	er equipped	with		
blind and	pipe rams wi	ll be use	ed f	or blow out j	preven	rtion on th	is well.		
				Approximation of the second					
This gas i	is dedicated.			/ (S)			en e		
,						التاماتية	11		
				6. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	AP, UTI				
The $S/2$ of	Section 22	is dedica	ated	to this well		MAR 25	1 977 ·		
					DIST.	5			
N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	ronosal is to deen	Len of N	dug book give dete en n-					
one. If proposal is to d reventer program, if any	um or acchen attectionar	ly, give pertinent	data o	n subsurface locations and	d measured	and true vertical depi	ed new productive		
4.	1. 2.					•	·		
SIGNED .	9. Queco	y		5					
		TIT	LE	Drilling	Clerk	DATE Marc	:h_25,_1977	7	
(This space for Feder	at or State office use)								
PERMIT NO.				APPROVAL DATE			in Error King Line State		

DATE .

TITLE _

1760

WELL LOCATION AND ACREAGE DEDICATION PLAT All distances must be from the outer boundaries of the Section. Orerator Well No. EL PASO NATURAL GAS COMPANY RIDDLE D (NM-012647) 3A Unit Letter Section Township Range County 31-N 9-W SAN JUAN Actual Footage Location of Weil: 1015 SOUTH 1685 EAST feet from the line and feet from the line Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6274 MESA VERDE BLANCO MESA VERDE 312.88 Acres 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? 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Original Signed by D. G. Brison Nome Position Drilling Clerk El Paso Natural Gas ^DMarch 25, 1977 I hereby certify that the well location shown on this plat was plotted from field NM-012647 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. 1685 Date Surveyed MARCH 18, 1977 Registered Professional Engineer

1560

1000

500

1320 1650

1980 2310



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

Multi-Point Surface Use Plan Riddle D #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.
- 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 thirty feet (30') 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 (Pump Wash Water Hole)
- 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. 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. Seed Mixture #2 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 green (Federal Standard #595 34127)
- 11. Other Information The terrain is rough sandstone ledges and steep hills covered with pinon and cedar trees. There are some deer and coyote on 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.

March 25, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan Riddle D #3A

I. Location: 1015'S, 1685'E, Section 22, T-31-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6284'DF

II. Geology:

Α.	Formation Tops:	Surface Ojo Alamo Kirtland Fruitland Pic.Cliffs	San Jose 1818' 1908' 2798' 3118'	Lewis Mesa Verde Menefee Point Lookout Total Depth	3200' 4944' 5011' 5344' 5744'
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- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5011', 5344' 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 3400'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:		Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	$\frac{32.3 \# H-40}{32.3 \# H-40}$
		8 3/4"	3400'	7"	20.0# K-55
		6 1/4"	3250-5744'	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: 5744' 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.

V. <u>Cementing</u>:

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.

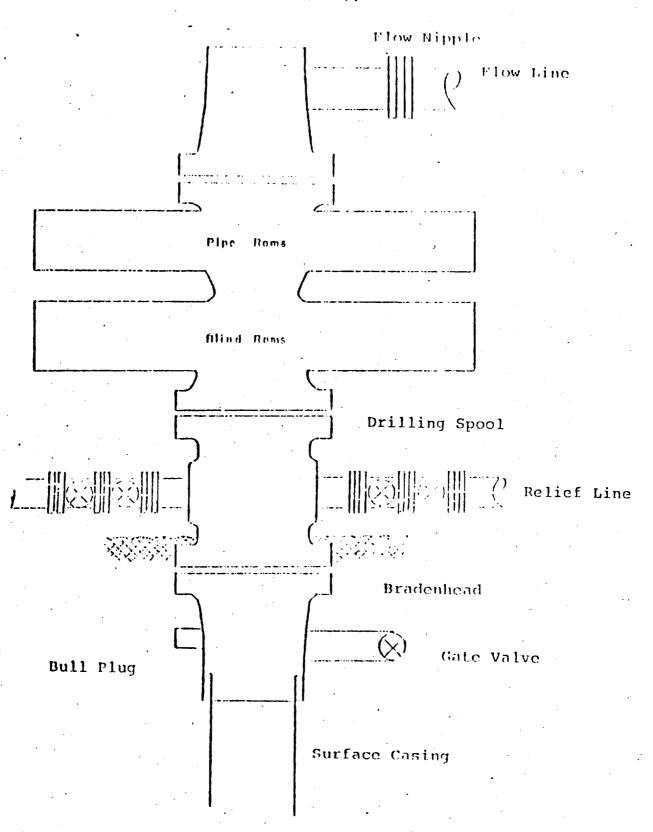
7" intermediate casing - use 91 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (356 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 242 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (435 cu.ft. of slurry, 70% excess to circulate liner).

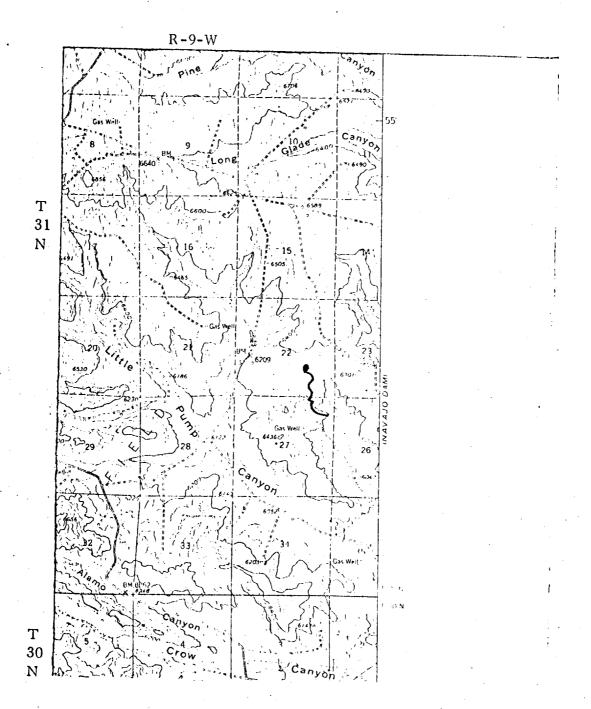
12.77 Drew Kerks 15 ye ent 300

Typical Lucation Plat for Mesa Verde and Dukota

Typical B.O.P. Installation for Mesa Verde Well



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



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS			
EXISTING	PIPELINES	-4.	-4-	-+-
EXISTING	ROAD ^ PIFELIN	B-1	-+-	
PROPOSED	ROADS			
PROPOSED	PUPELIMES	+	+	-+-
PROPOSED	ROAD A PIPELIN			

EL PASO NATURAL GAS COMPANY RIDDLE D # 3A · · SE 22-31-9

EPNG 30 Union 3 64 3. M 3n Juan 32 9 Unit Union Tex Pet Nordhaus EPNG EPNG So Union So Union Π 12 Juan 32 9Uni M Nordhaus Nordhaus EPNG EPNG EPNG 30 Union So. Union B.15 \$ ₹, Allen Com. 18 15 14 13 Tec Texaco ЖM. SanJuan 32-9Uni Nordhaus EPNG EPNG EPNG Sc. Union So. Union 21 22 23 24 杂 Barrett Sunray G Seymour Soymour EPNG EPNG EPNG So. Union So. Union 26 25 Tenneco RiddleC Sheets EPNG Sayn Union Tex FAT CO Union Tex 14+ Co. Mesa Pet. State Com 31 Walker 33 35 36 Johnston Fed Prichard Johnston State Com

MAP #2

Proposed Location