Form 9-331 C (May 1963)				SUBMIT IN T (Other instru			d. 1 No. 42-R1425.		
	-	TED STATES	TEDIO	reverse		30-045-	- 23161		
			OF THE INTERIOR				$\frac{20 - 045 - 2306}{5. \text{ Lease designation and serial no.}}$ SF 078316E		
	GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						OR TRIBE NAME		
APPLICATIC 1a. TYPE OF WOBK	ON FOR PERMIT	TO DRILL, D	EEPEN,	OR PLUG	BACK				
	RILL 🖄	DEEPEN	]	PLUG BA	ск 🗆	7. UNIT AGREEMENT NAME			
b. TYPE OF WELL OIL	GAS X OTHER		SINGLE	X MULTI	PLE	8. FARM OR LEASE NAM	( R.		
2. NAME OF OPERATOR	WELL C OTHER		ZONE	ZONE		Riddle C	1.64		
El Paso N	atural Gas Co	mpany				9. WELL NO.			
3. ADDRESS OF OPERATO	0, Farmington	. NM 8740	1				· · · · · · · · · · · · · · · · · · ·		
	(Report location clearly and		_	equirements.*)		10. FIELD AND POOL, O Blanco Mesa			
At surface	1890'S, 7			·····		11. SEC., T., E., M., OR B	LK.		
At proposed prod. 2						AND SURVEY OF AR Sec. 31, T-32			
	K = > >					NMPM	·		
	S AND DIRECTION FROM NEA		OFFICE*			12. COUNTY OR PARISH			
15. DISTANCE FROM PRO			16. NO. OF	ACRES IN LEASE		San Juan	NM		
LOCATION TO NEAR PROPERTY OR LEAS (Also to nearest d		740'		372.5	тот	HIS WELL	299.20-		
18. DISTANCE FROM PE			19. PROPOSE	D DEPTH	20. ROTA	20. ROTARY OR CABLE TOOLS			
OR APPLIED FOR, ON	THIS LEASE, FT.	1000'		6030'	Rotar	iry			
21. ELEVATIONS (Show ) 6570 GR	whether DF, RT, GR, etc.)					22. APPROX. DATE WO	RK WILL START*		
23.							<del></del>		
<u> </u>		PROPOSED CASING	<u> </u>			······································			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO		SETTING DEPTH		QUANTITY OF CEMEN	· · · · · · · · · · · · · · · · · · ·		
<u>    13  3/4"    </u> 8  3/4"	<u>9 5/8"</u>	<u>32.3#</u> 20.0#		<u>200'</u> 3715'		u.ft. to cir			
6 1/4"	4 1/2"line		35	<u> </u>		cu.ft.to cove cu.ft.to fill			
blind and This gas The SW/4 IN ABOVE SPACE DESCRI ZODE. If proposal is t	i WP and 6000 pipe rams wi is dedicated. of Section 30 THE PROFOSED PROGRAM: If to drill or deepen direction	ll be used and W/2 o: proposal is to deepe	for b f Sect	low out p ion 31 i	s dedi	LCated to this	well.		
preventer program, if a 24.	any. 1		- <u></u>						
1.	J. Bucco		_	Drod 111					
SIGNED		TITL	E	Drilling	Clerk	<u></u>	2-78		
(This space for Fe	deral or State office use)								
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·		APPRO	OVAL DATE			<u> </u>		
ADDOUND DY			_						
APPROVED BY CONDITIONS OF APPR	OVAL, IF ANY :	TITL	С			DATE			
Oba( R-35			moce						
A		*See Instruct	tions On I	keverse Side					
K・ クシ									

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# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances must be	e from the outer bounder	ies of the Section.	·
Operator		Lease		Well No.	
<u>EL PASO NA</u> Unit Letter	ATURAL GAS COL	······································	RIDDLE "C"		A
K K	Section	Township	Range	County	
Actual Footage Loc	31	31-N	<u>9-W</u>	n	
1590			21.0	_	
Ground Level Elev:	feet from the So Producing For	outh line and	1 7 <u>4</u> 0	feet from the	West line
6570 Mesa Verde		-	e 299.20 Actes		
				nco Mesa Verd	arks on the plat below.
this form i No allowal	is "no;" list the f necessary.) ble will be assign	ed to the well until a	scriptions which ha 	ve actually been 	consolidated. (Use reverse side of (by communitization, unitization, has been approved by the Commis-
sion.		×			CERTIFICATION I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief. W. M. Mucco
XX I c	C#1			1	Name

30 SF-078 319-A 30 -----31 <sup>1</sup>SF-078 ł 316-F 1 NSJ/A 31 <u> 1998–995</u> 2 <u>ј 316-е</u> - 356 1 ç 31 X

Scole. 1'= 2000'

Position

El Paso Natural Gas Company

1978

May 22 Date

> 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
May 7, 1978
Registered Protessional Engineer
and Land Surveyor Charles
Fred B. Kerr Jr.
Certificate Ng.
3950 N. (188, 15-1



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

## Multi-Point Surface Use Plan Riddle C #1A

- 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 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.

Multi-Point Surface Use Plan

Page Two

- 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 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 #<sup>2</sup> 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 sandstone ledges and high bluffs with pinon and cedar growing. Deer graze the proposed project site.

Multi-Point Surface Use Plan

Page Three

- 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.

D. C. Walker Ergineer

May 22, 1978

DCW:pb

### Operations Plan Riddle C #1A

- I. Location: 1890'S, 740'W, Section 31, T-31-N, R-9-W, San Juan County, NM Field: Blanco Mesa Verde Elevation: 6570'GR
- II. Geology:

A. 1	Formation 1	ops:	Surface	San	Jose	Lewis	3515'
		-	Ojo Alamo		1990'	Mesa Verde	4995 <b>'</b>
			Kirtland		2105'	Menefee	5145'
			Fruitland		2970 <b>'</b>	Point Lookout	5580'
			Pic.Cliffs		3320'	Total Depth	6030 <b>'</b>

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

C. Coring Program: none

- D. Natural Gauges: 4985', 5135', 5570' 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 3715'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	5 5	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3715'	7"	20.0# K-55
		6 1/4"	3565-6030'	4 1/2"	10.5# K-55
		0 =/ 1		, -	

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

- C. Tubing: 6030' 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 - Riddle C #lA, cont'd.

### 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 167 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 (389 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 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (430 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



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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

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# EL PASO NATURAL GAS COMPANY Riddle C #1A SW 31-31-9



MAP #1

LEGEND OF RIGHT-OF-MAYS

EXISTING	ROADS	······································
EXISTING	PIPELINES	-++-
EXISTING	ROAD 2 PIPELI	NB-+-++
PROPOSED		
	FIPELINES	+-+-+-
<b>PROPOSED</b>	ROAD & FIPELI	INE <del>-   -   -   -</del>



MAP #2

Proposed Location