Forta 9-331 C (M v 1963)				SUBMIT IN 7			d. No. 42-R1425.	
UNITED STATES reverse side)						30-045-22451		
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SEBIAL NO.		
		DGICAL SURVEY				SF 078319A		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						G. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
						7. UNIT AGREEMENT NA	AME	
b. TYPE OF WELL								
WELL V	NELL . OTHER			NGLE X MULT		8. FARM OR LEASE NAM	E	
2. NAME OF OPERATOR	atural Cas Co	mnanu				Riddle C		
LI PASO IN 3. ADDRESS OF OPERATOR	atural Gas Co	mpany			<u></u>	2A		
	0, Farmingtor	, NM 874	401			10. FIELD AND POOL, OR WILDCAT		
	Report-location clearly and	l in accordance wit		State requirements.*)		Blanco Mesa		
	1600'S, 88	35'E				11. SEC., T., B., M., OR H AND SURVEY OR AR Sec. 30, T-3	$\frac{\mathbf{E}\mathbf{A}}{\mathbf{E}\mathbf{A}} = \frac{\mathbf{E}\mathbf{A}}{\mathbf{E}\mathbf{A}} = \frac{\mathbf{E}\mathbf{A}}{\mathbf{E}\mathbf{A}} = \frac{\mathbf{E}\mathbf{A}}{\mathbf{E}\mathbf{E}\mathbf{A}} = \frac{\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{A}}{\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf{E}\mathbf$	
At proposed prod. zo	ne					NMPM	L-N, R-9-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	E [‡]		12. COUNTY OR PARISH	13. STATE	
						San Juan	NM	
15. DISTANCE FROM PROF LOCATION TO NEARES			16. NO). OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL	216.04	
PROPERTY OR LEASE (Also to nearest dr	LINE, FT. lg. unit line, if any)						316.04	
	DRILLING, COMPLETED,		19. PI	SOPOSED DEPTH 5820'	Rota	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE 21. ELEVATIONS (Show W. 6373'GL	hether DF, RT, GR, etc.)		1			22. APPROX. DATE WO	RK WILL START*	
23.		PROPOSED CASE	NG ANI	D CEMENTING PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING DEPTH	1	QUANTITY OF CEMEN	T	
13 3/4"	9 5/8"	32.3#		200'	224 0	cu.ft. to cir	culate	
8 3/4"	7"	20.0#		3565'		cu.ft. to cov		
6 1/4"	4 1/2"	10.5#		3415-5820'	419 0	cu.ft. to fil	ll to 3415'	
A 3000 ps blind and This gas The E/2 c	ly perforate i WP and 6000 pipe rams will is dedicated. of Section 30 BE PROPOSED PROGRAM : If o drill or deepen direction my.) psi test ill be use is dedica	t do ed f ated	uble gate pi or blow out to this we	revente preven	er equipped with the second se	with s well. 077	
SIGNED	J. Duced	TI	ITLE	Drilling C	lerk	DATEMar	<u>ch 31, 19</u> 77	
(This space for Fe	deral or State office use)							
PERMIT NO				APPROVAL DATE				
APPROVED BY		TI	ITI.E	<u></u>		DATE		
CONDITIONS OF APPRO								
(Ellál							
c		**						
		Dee Instr	UCTIONS	s On Reverse Side				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances must b	be from the outer bo	undaries of t	he Section.		
	ATURAL GAS		Lease RIDDLE	c (s	F-078319-A	.)	Well No. 2A
Jan Letter Secti I	30	Township 31-N	Range)-W	SAN JU	JAN	
Actual Footage Location of 1600 feel	of Well: from the SOU	TTH line or		feet	from the EAST	1	line
Ground Level Elev. 6373	Producing For		Pool	ICO MESA			ated Acreage: 316.04 Acres
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 							
dated by commu Yes If answer is "this form if nec No allowable w	No If ar no,' list the essary.) ill be assignd	nitization, force-po nswer is "yes," typ owners and tract de ed to the well until	oling. etc? e of consolidat escriptions whi all interests ha	ion ch have ac ave been c	tually been co onsolidated ()	nsolidated.	(Use reverse side of ization, unitization, oved by the Commis-
			 SF-078319	FEE #2 0		hereby ceriify ained herein is best of my know Origina D. me sittion a mpany ^g	TIFICATION that the information con- true and complete to the cledge and belief. I Signal by G. Brisco
		SICT 30				I hereby certin shown on this p notes of actua under my super is true and co knowledge and the Surveyed MARCH	16, 1977
Process 3 30 660 90	1320 1650 19	A0 2310 2840	2000 1500	1000		rtificate No.	760

EIPaso NATURAL GAS COMPANY

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

Multi-Point Surface Use Plan Riddle C #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 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 (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.

Multi-Point Surface Use Plan

Page Two

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. 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 sandstone ledges and sagebrush flats covered with pinon, cedar and sagebrush. Cattle 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.

March 31, 1977

D. R.Read Division Drilling Engineer

DRR:pb

I. Location: 1600'S, 885'E, Section 30, T-31-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde

Elevation: 6383'DF

II. Geology:

Α.	Formation Top	s: Surface	San Jose	Lewis	3365'
	-	Ojo Alamo	1870'	Mesa Verde	4775 '
		Kirtland	1910'	Menefee	5000'
		Fruitland	2780 '	Point Lookout	5420 '
		Pic.Cliffs	3160'	Total Depth	5820'

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

C. Coring Program: none

D. Natural Gauges: 4765', 4990', 5410' 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 3565'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3565'	7"	20.0# K-55
		6 1/4"	3415-5820'	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: 5820' 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. 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 100 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 (382 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 233 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (419 cu.ft. of slurry, 70% excess to circulate liner).

DRR:pb



A7804



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

EL PASO NATUR MUGAS COMPANY RIDDLE C #2A SE 30-31-9



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	•••••••••••
EXECTING	PIFELIMES	-+++-
EXISTING	ROAD > PITELIN	⊡ -+ +
PROPOSED	RCADS	
TROPOS 5D	FILELUES	+ + +
FROPOSED	EOAD > FIFELU	B -+-+-+-



MAP #2

Proposed Location