BURNIT IN TRIPLICATES

Other Indructions on

Form approved Budget Bureau No. 12 R1425.

reverse slde)

30-045-22488

UNITI	ED:	STATI	ES	
DEPARTMENT	OF	THE	INTE	RIOR

	DEPARTMENT			TOR		5. LEASE DESIGNATION	AND SERIAL NO.
		GICAL SURVE				NM 012647	
	I FOR PERMIT T	O DRILL, D	DEELE	N, OR PLUG	BACK	G. IP INDIAN, ALLOTTE	E OR TRIBE NAME
IA. TYPE OF WORK DRI b. TYPE OF WELL	LL [K]	DEEPEN [PLUG BA	CK 📋	7. UNIT AGREEMENT	NAME
	S X OTHER		81 20	NGLE X MITTE	.r.w [_]	B. FARM OR LEADE NA	ME
2. NAME OF OPERATOR	1 C C					Riddle D	
El Paso Natura	I Gas Company					9. WELL NO.	
	ington Now Mey	ico 87401				10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Re At surface	ington, New Mex	in accordance wit	h any S	tate requirements.*)		Blanco Mesa	Verde
	N, 810'W					11. SEC., T., R., M., OR AND SURVEY OR A	BLK.
At proposed prod. zon	•					Sec. 22, T-3	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAD	EST TOWN OR POST	r offici			N. M. P. M. 12. COUNTY OR PARISI	
15. DISTANCE FROM PROPO	grn•		16 NO	. OF ACRES IN LEASE	3 17 NO 2	San Juan	N. M.
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.		10. 30	. OF ACRES IN THINKS		HIS WELL 314.91	
(Also to nearest drlg 18. DISTANCE FROM PROP	SED LOCATION*		19. PR	DPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	ULLING, COMPLETED, S LEASE, FT.	1	l	5710 '		Rotary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE W	ORK WILL START*
6239' GL							
		ROPOSED CASIN	G AND	CEMENTING PROGIL	AM		
13 3/4"	9 5/8"	32.3#	ют 	SETTING DEPTH	- 224	QUANTITY OF CEME	
8 3/4"	7''	20#		200' 3515'		eu. ft. to circ. eu. ft. to cover	
6 1/4"	4 1/2" Liner	10.5#		3365-5710'	1	cu. ft. to fill to	
0 2/ 1		10.0		0000 0710	100	ed. it. to fill to	, 3303
Selectively per	forate and sand	water fractu	re th	e Mesa Verde fo	ormatio	on	
	and 6000 psi test		prev	entor equipped	with bli	nd and pipe rar	ns will be
used for blow	out prevention or	i this well.		green and the second	٠.		
mus and to deal	4 - 3		1				
The gas is dedi	cated		* ************************************			KECEIV	LU
	•		* Reacy			APR 1 2 19	177
			`	J. O. D. D.			
771 >> 10 - 5					•	U. S. GEOLOGICAL S	BURVEY

The N/2of Sec. 22 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout pr

preventer program, if any.				
24. NIGNED & D. Sucias	TITI.E	Drilling Clerk	DATE 4-1	1-77
(This space for Federal or State office use)				
PERMIT NO.		APPROVAL DATE	,	
APPROVED BY	TITLE		DATE	

NWU- 3.125

*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT

10 in C +132 Supersedes C+128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Operator Well No. 4A EL PASO NATURAL GAS COMPANY RIDDLE (NM-012647)D Unit Letter Section Township Hange County 31-N 9-W D SAN JUAN Actual Footage Location of Well: 1100 NORTH 810 WEST feet from the line and Ground Level Elev. Producing Formation Pool Dedicated Acreage: MESA VERDE 6239 BLANCO MESA VERDE 314.91 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? If answer is "yes," type of consolidation. Yes No 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. 810 Nome Drilling Clerk Position El Paso Natural Gas Company Company NM-0126147 April 11. 1977 Date SECTION 22 I hereby certily 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 Music THE TAX BANKAST DE Certificate No 1760 1320 1650 1980 2310 2640 2000



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

Multi-Point Surface Use Plan Riddle D #4A

- 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
- 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. 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 sage brush flats and in a wash area covered with sage brush. 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.

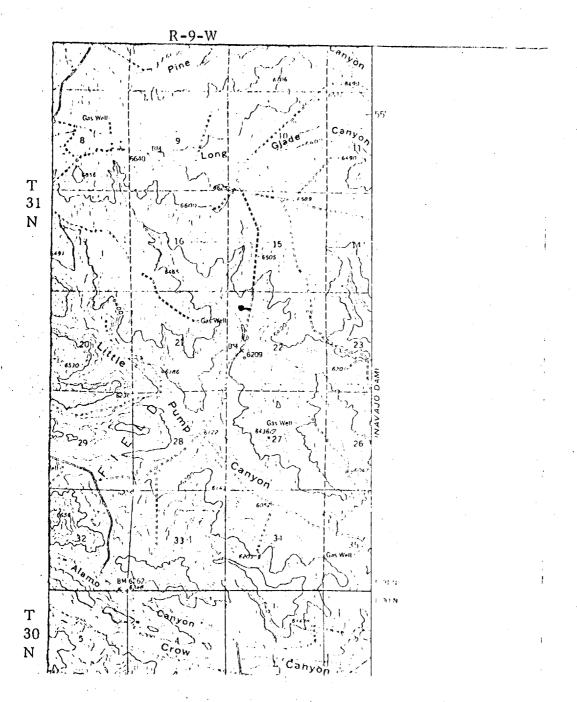
April 11, 1977

D. R. Read

Division Drilling Engineer

DRR:dgb

EL PASO NATURAL CAS COMPANY RIDDLE D #4A NW 22-31-9



MAP #1
LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	-		
EXISTING	PIPELINES		+	+
EXISTING	ROAD > PITELIN	E-+		
PROPOSED	ROADS			
PROPOSED	PIPELINES	+	+	+
PROPOSED	ROAD & PIPELIN	E -	-+	+

EL PASO NATURAL GAS COMPANY RIDDLE D #4A NW 22-31-9

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MAP #2

Operations Plan Riddle D #4A

I. Location: 1100'N, 810'W, Sec. 22, T-31-N, R-9-W, San Juan County, New Mexico

Field: Blanco Mesa Verde Elevation: 6249' DF

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis	3315'
			Ojo Alamo	1770'	Mesa Verde	4615'
	•		Kirtland	1815'	Menefee	4960'
			Fruitland	2730'	Point Lookout	5310'
		•	Pic.Cliffs	3095'	Total Depth	5710'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4605', 4950', 5300' 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 3515'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:		Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	32.3 # H-40
	8 3/4"	3515'	7"	20.0# K-55
	6 1/4"	3365-571	.0' 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: 5710' 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 D #4A (Cont'd.)

V. <u>Cementing:</u>

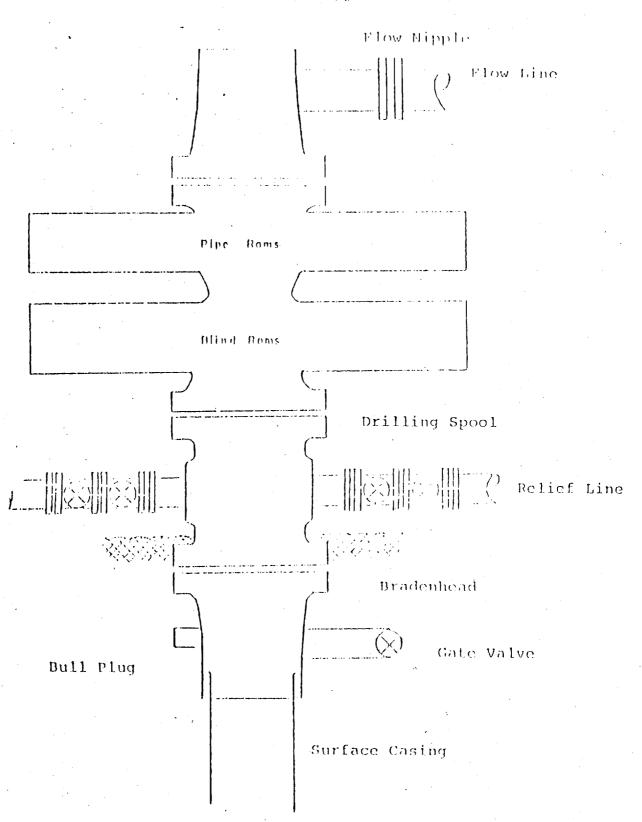
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 104 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 (393 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 227 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (409 cu.ft. of slurry, 70% excess to circulate liner).

1/2 Draw Kerks 50 From wellhoard to

Typical Location Plat for Mosa Verile 18.011s



Scries 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