### SUBMIT IN TRIPLICATE\*

Form approved.

Form 9-331 C (May 1963)			_	(Other instruc	ctions on	Budget Bureau No. 42-R1425.		
	UNITE	D STATES	) 	reverse si	lde)	30 - D45-227/3  5. LEASE DESIGNATION AND SERIAL NO.		
DEPARTMENT OF THE INTERIOR				5. LEASE DESIGNATION AND SERIAL NO.				
GEOLOGICAL SURVEY				SF 078414A				
A DDL ICATION	FOR PERMIT TO	O DRILL I	DEED	N OR PLUG B	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
	TON TEMPORAL	O Ditter,		<u> </u>				
1a. TYPE OF WORK  DRII	LX	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME		
b. Type of Well  OIL GAS SINGLE SINGLE MULTIPLE CONE  WELL SONE ZONE					S. FARM OR LEASE NAME			
WELL WE	HL X OTHER					Day		
El Paso Na	atural Gas Con	mpany				9. WELL NO.		
3. ADDRESS OF OPERATOR	realul das dos					3A		
PO Box 990	), Farmington	, NM 87	401			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Re	port location clearly and i	n accordance wi	th any S	state requirements.*)		Blanco Mesa Verde		
C At surface	1090'N, 10	50'W				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone	•					Sec. 18, T-29-N, R-8-W		
At proposed prod. zone	•					NMPM		
14. DISTANCE IN MILES A	ND DIRECTION FROM NEARE	ST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH 13. STATE		
						San Juan NM		
15. DISTANCE FROM PROPO			16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE LA	INE, FT.					341.88		
(Also to nearest drig	SED LOCATION*		19. PI	OPOSED DEPTH	20. ROTA	20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	SILLING, COMPLETED, S LEASE, FT.			5705 <b>'</b>	Rota:	ry		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		<u> </u>			22. APPROX. DATE WORK WILL START*		
6418'GL								
23.	PI	ROPOSED CASI	NG AN	CEMENTING PROGR	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	гоот	SETTING DEPTH	1	QUANTITY OF CEMENT		
13 3/4"	9 5/8"	32.3#	<del>_</del>	200'	224	cu.ft. to circulate		
8 3/4"	7"	20.0#		3385'		cu.ft.to cover Ojo Alam		
$\frac{-6  3/4}{6  1/4"}$	4 1/2"line			3235-5705'		cu.ft.to fill to 3235'		
0 1/4	. 1/2 11119			1				
Selective	lv perforate	and sand	wate	er fracture t	he Me	sa Verde formation.		
	-1 P							
						•		
A 3000 ps:	i WP and 6000	psi tes	t do	ouble gate pr	event	er equipped with		
blind and	pipe rams wi	11 be us	ed f	for blow out	preve	ntion on this well.		
						The state of the s		
This gas is dedicated.								
_	<del></del>					4077		
2. N. F.	. , <u>L</u> .	A				7 7		
5W/4	of section !	slu	2			1 25 M COM.		
The $W/2$ o	of section 18	is/dedic	ated	to this wel	L1.	1 on Stat. 3 /		
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If D	roposal is to de	epen or	plug back, give data on j	present pro	ductive zone and proposed new productive		
zone. If proposal is to preventer program, if an	drill or deepen directional	lly, give pertine	nt data	on subsurface locations a	ind measure	ed and true vertical depths. Gly blowout		
24.	// /							
/// <i>/</i> /	1. Duses				- C1	1. N		
BIGNED .	- Lywa	. т	ITLE	Drilling	, Cler	k DATE August 31, 19		

7

1977

(This space for Federal or State office use)

PERMIT NO. \_\_\_

\*See Instructions On Reverse Side

U. S. GEOLGAMAR . . . .

SEP 2

Obal NUU R-120

Supersedes C-128 WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 14-65 All distances must be from the outer boundaries of the Section. Well No. Operator Lease (SF 078414-A) EL PASO NATURAL GAS COMPANY DAY 3A Unit Letter Township Range County 18 8-W 29-N SAN JUAN Actual Footage Location of Well: 1090 1050 WEST feet from the line and Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6418 MESA VERDE BLANCO MESA VERDE 341.88 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 Commis-RE-ISSUE 7/28/77 TO SHOW DISTANCE FROM SECTION SUBDIVISION LINES **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. Brisco 'SEC. Drilling Clerk Position E1Paso Natural Gas Co. Company August 31, 1977 Date I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or 82 ler my supervision, and that the same SF true and correct to the best of my 078414-A knowledge and belief. Date Surveyed JULY 20, 1977

SCALE 1"=2000'

Registered Professional Engineer

1760



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

## Multi-Point Surface Use Plan Day #3A

- 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 Manzaneras Mesa 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 No earthen pit materials into the watershed. 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 gray (Federal Standard #595 36357).
- 11. Other Information The terrain is sage brush flats 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.

August 31, 1977

D.R. Read

Division Drilling Engineer

DRR:pb

#### Operations Plan Day #3A

I. Location: 1090'N, 1050'W, Section 18, T-29-N, R-8-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6418'GR

#### II. Geology:

A.	Formation Tops:	Surface	San Jose	Lewis	3185'
	_	Ojo Alamo	1960'	Mesa Verde	4645'
		Kirtland	2110'	Menefee	4795'
		Fruitland	2725'	Point Lookout	5253'
		Pic.Cliffs	3035'	Total Depth	5705 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4635', 4785', 5240' 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 3385'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

A.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3385'	7"	20.0# K-55
		6 1/4"	3235-5705'	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 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: 5705' 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 - Day #3A, 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 77 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 (321 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 238sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (430 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

DRR:pb

Date: \_\_\_\_\_

Pny #3A

18-29-8

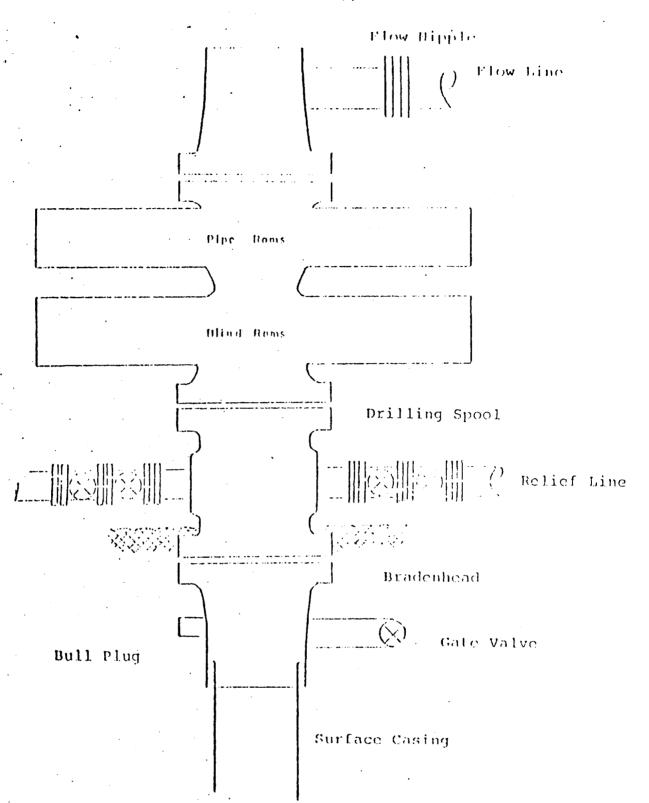
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58.12	nC4	11.93
72.15	ıC5	13.85
72.15	nC5	13 71
86.18	iC6	15 50
86.18	C <sub>6</sub>	15.57
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100.21	C7	17.46
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42.08	C3:	9 67

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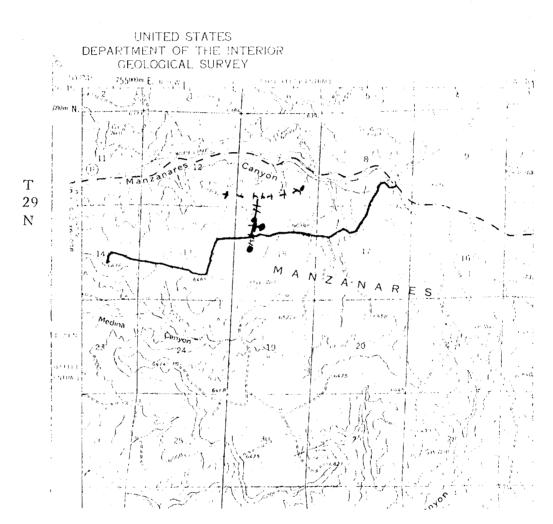
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5 X 2 . C. Part Tunk Tank ( 12 130 Roserve Drow Korks much Chaing Trailer 4 st cut. 300 4 ft fill From wellhood to From wellhoard to Bleeve 250

Typical Location Plat for Missa Veriles and Listates Wells



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

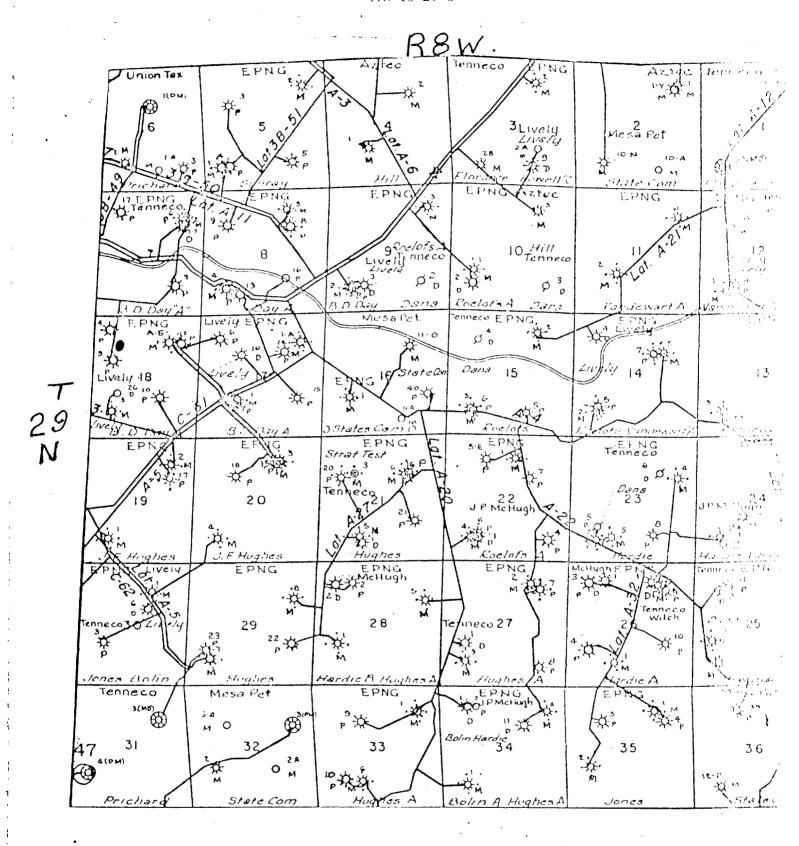


MAP #1

TEGEND OF SIGHT-OF-MAYO

EXISTING PITALTING + + + + PROPOSED ROADS
FROGGED FITALTING + + + + + + + + PROPOSED ROADS
FROGGED FITALTING + + + + + + + + PROPOSED ROADS

# EL PASO NATUR AL GAS COMPANY. Day #3A NW 18-29-8



MAP #2
Proposed Location