SUBMIT IN TRIPLICATES

(Other instructions on

I to Characteria

Form approved, Budget Bureau No. 42-R1425.

(May 1963) **UNITED STATES** reverse side) 30-645- 22772 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** NM 0560422 G. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK DEEPEN [7. UNIT AGREEMENT NAME DRILL 🗌 PLUG BACK b. TYPE OF WELL MULTIPLE ZONE MELL SINGLE ZONE WELK | \mathbf{z} S. FARM OR LEASE NAME OTHER 2. NAME OF OPERATOR El Paso 9. WELL NO. El Paso Natural Gas Company 3. ADDRESS OF OPERATOR 1A 10. FIELD AND POOL, OR WILDCAT PO Box 990, Farmington, NM 87401
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Blanco Mesa Verde 11. SEC., T., E., M., OR BLK.
AND SURVEY OR AREA
Sec. 20, T-29-N, R-9-W 1840'W 500'N, At proposed prod. zone **NMPM** 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE NM San Juan 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320.00 18. DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DRILLING, COMPLETED, 19. PROPOSED DEPTH 20. ROTARY OR CARLE TOOLS OR APPLIED FOR, ON THIS LEASE, FT. 4720' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 5559 'GL 23 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 2001 224 cu.ft. to circulate 5/8" 13 3/4" Q 32_3# 2325<u>'</u> 322 cu.ft.to cover Ojo Alamo 8 3/4" 20.0# 443 cu.ft.to fill to 2175' 1/2"liner 10.5# 2175-4720' 6 1/4" Selectively perforate and sandwater fracture the Mesa Verde formation. A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well. This gas is dedicated.

The W/2 of Section 20 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 zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, 24

BIGNED D. Bucco	TITLE	Drilling Clerk	DATE 10-20-77
(This space for Federal or State office use)			
PERMIT NO.		APPROVAL DATE	
APPROVED BY	TITLE	•	DATE
alcar			tin:3 1977

*See Instructions On Reverse Side

All distances must be from the outer boundaries of the Section.

Operator EL	PASO NATURAL	GAS COMPANY	Lease EL PASO	(NM-0560422)	Well No.
Unit Letter C	Section 20	Township 29-N	Range 9-W	County SAN JUAN	
Actual Footage Loc 500	ation of Well:	NORTH line and	1840	WEST	14
Ground Level Elev. 5559	Producing For	· · · · · · · · · · · · · · · · · · ·	Pool	eet from the ESA VERDE De	line dicated Acreage: Acres
1. Outline th	e acreage dedica	ted to the subject we	ell by colored pencil	or hachure marks on the p	· · · · · · · · · · · · · · · · · · ·
2. If more th interest ar	an one lease is nd royalty).	dedicated to the well	l, outline each and i	dentify the ownership there	of (both as to working
3. If more the dated by c	an one lease of dominunitization, w	ifferent ownership is o unitization, force-pooli	dedicated to the well	, have the interests of all	owners been consoli-
Yes	No If a	nswer is "yes;" type o	f consolidation		-
If answer	is "no," list the f necessary.)	owners and tract desc	riptions which have	actually been consolidated	l. (Use reverse side of
No allowat forced-poo	ole will be assign ling, or otherwise)	ed to the well until all or until a non-standar SUED TO SHOW REVI	d unit, eliminating s	consolidated (by commuruch interests, has been app E. 9-6-77	nitization, unitization, proved by the Commis-
	is is			CI	ERTIFICATION
	18	806.6'-	1	I hereby certi	ly that the information con-
184		N	t t	l i	is true and complete to the pwledge and belief.
	, I. 2 ₀ I	B		Original Si	
<u>}</u>	+ cong			Drilling Position	Clerk
3	· t		}	. ! !	latural Gas Co.
, in	M-0560422		1	October 2	20, 1977
	7	SECTION 20	! !		
3				I hereby cert	ify that the well-location
1	1.			\ 11	plot was plotted from field of surveys made by me or
	1 41	Ŋ		under my supe	rvision, and that the same
<u></u>	+		\	knowledge and	
	i			Date Surveyed	
4	1	Ŋ		AUGUS	ST 28, 1977
3	!			and or land Sur	
111111				Certificate No.	Mileda)
1 200					•



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan El Paso #1A

- 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 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 in the San Juan River.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

Page Two

Multi-Point Surface Use Plan

- 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 #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 brown (Federal Standard #595 30318).
- 11. Other Information The terrain is rolling hills and sand stone ledges covered with sage brush. Cattle occasionally 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.

October 20, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan El Paso #1A

I. Location: 500'N, 1840'W, Section 20, T-29-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5559'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2125'
			Ojo Alamo	895'	Mesa Verde	3560'
			Kirtland	975'	Menefee	3735'
			Fruitland	1715'	Point Lookout	4271'
			Pic.Cliffs	1990'	Total Depth	4720'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 3550', 3725', 4260' 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 2325'. 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"	2325'	7"	20.0# K-55
		6 1/4"	2175-4720'	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: 4720' 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 - El Paso #1A

Cementing:

v.

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 73 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 (322 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.

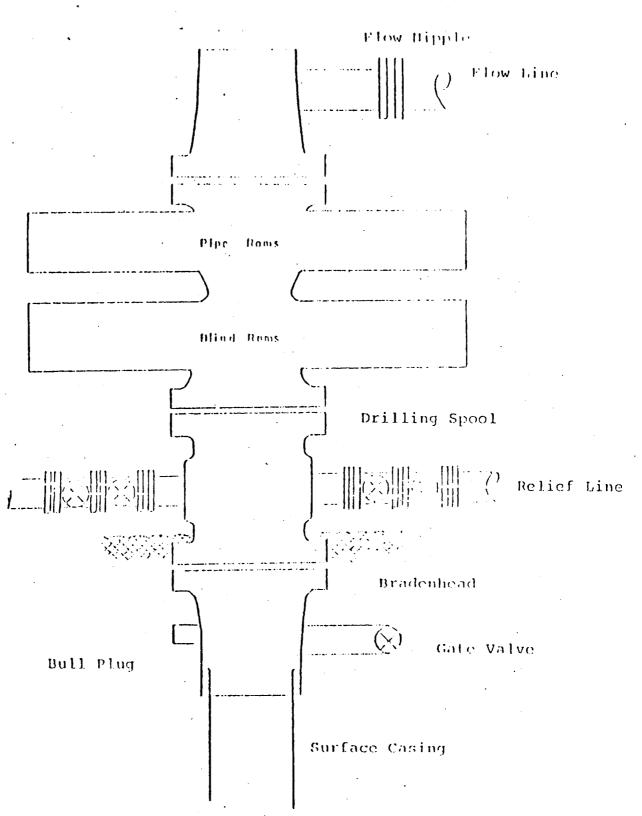
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 246 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (443 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

DRR:pb

Fuel Frak 27 130' Drow Works Mad Tank Trailor cut 2 ft Jule 2 ft Bloom 250

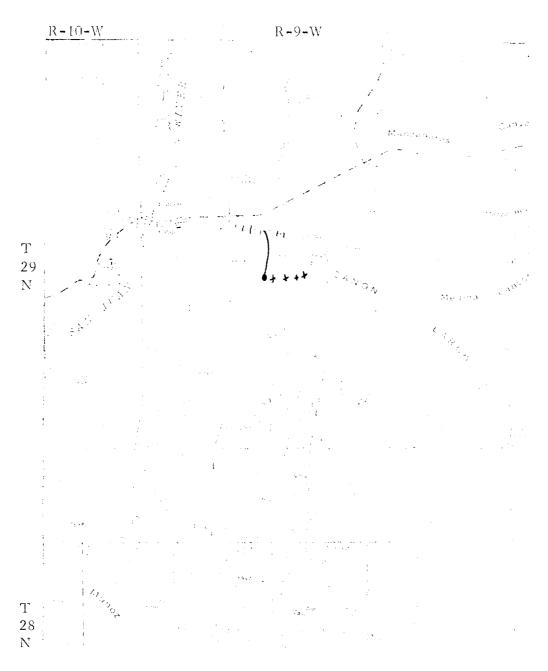
Typical Location Plat for Masa Virde 1991 Dutata Wells

Typical N.O.P Installation for Mesa Merde 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

EU PASO NATURAL GAS COMPANY El Paso #1A NW 20-29-9



MAP ±1

	,	 			
1,774,970	V 1	 	_	2.3	1.1

EXTRACTOR	14.50 40	
BUIGHER	11-11-11-11-11-11-11-11-11-11-11-11-11-	1-1-
PROPOSU	EGAN	
FROPOUL		+++
TOWN MADE	the transfer of the second	+++-

EL PASO NATURAL GAS COMPANY: El Pasc #1A NW 20-29-9

