SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

30 - 045 - 23/8/ 5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

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NAME OF OFERATOR El Paso Natural Gas Company Address of Operator PO Box 990, Farmington, NM 87401 Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1570'S, 1510'E At proposed prod. zone 4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles Southeast of LaPlata, Colorado 12. CC 8 miles Southeast of LaPlata, Colorado San 16. No. OF ACRES IN LEASE TO THIS WELL (Relation of the control of the contro	DOTE LELD AND POOL, OR WILDCAT ANCO Mesa Verde EC., T., R., M., OR BLK. ND SURVEY OR AREA CC. 27, T-32-N, R-12- IMPROVED THE STATE NO JUAN S ASSIGNED LL APPROX. DATE WORK WILL START*
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8 3/4" 7" 20.0# 30.75' 553 cu.f	t. to circulate
h = h + h + h + h + h + h + h + h + h +	t.to cover Ojo Al
A 3000 psi WP and 6000 psi test double gate preventer edulind and pipe rams will be used for blow out prevention	and phod with
This gas is dedicated.	
The E/2 of Section 27 is dedicated to this well.	
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and treventer program, if any.	one and proposed new productive the vertical depths. Give blowout
SIGNED Drilling Clerk	DATE - July 24, 1978
(This space for Federal or State office use)	
PERMIT NO APPROVAL DATE	
APPROVED BY TITLE	DATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer houndaries of the Section. Operator Well No. (SF-078147) EL PASO NATURAL GAS COMPANY MOORE lA Range County 32N 12W San Juan Actual Footage Location of Well: feet from the South 1510 feet from the East Ground Level Elev. Producing Formation Dedicated Acreage: Blanco Mesa Verde 320.00 5235 Mesa Verde 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 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 #1 best of my knowledge and belief. 1200 0 ortilíing Clerk El Paso Natural Gas Co. JaTy 25, 1978 Sec I hereby certify that the well location shown on this plat was plotted from field SF-078147 notes of actual surveys made by me or under my supervision, and that the same 15101 is true and correct to the best of my knowledge and belief.

660

1320 1650

1980 2310



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

Multi-Point Surface Use Plan Moore #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 the Aztec Ditch.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 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,

7. cont'd.

- 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 as designated by the responsible government agency 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 as designated by the responsible government agency.
- 11. Other Information The terrain is sandstone ledges and low rolling hills with pinon and cedar growing.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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

Project Drilling Engineer

Operations Plan Moore #1A

I. Location: 1570'S, 1510'E, Section 27, T-32-N, R-12-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6235'GR

II. Geology:

Α.	Formation Top	os: Surface	Nacimiento	Lewis	28 75 '
		Ojo Alamo	620 '	Mesa Verde	4250'
		Kirtland	815 '	Menefee	4555
		Fruitland	2240'	Point Lookout	5020 '
		Pic.Cliffs	2730'	Total Depth	5470 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4240', 4545', 5010' 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 3075'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	5 -	13 3/4"	200'	9 5/8"	32.3 # H-40
		8 3/4"	3075 '	7"	20.0# K-55
		6 1/4"	2925-5470 '	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5470' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

Operations Plan - Moore #1A, 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 269 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 (553 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 301 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (418 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

37 Driv Kerks Eury C 10 1,100

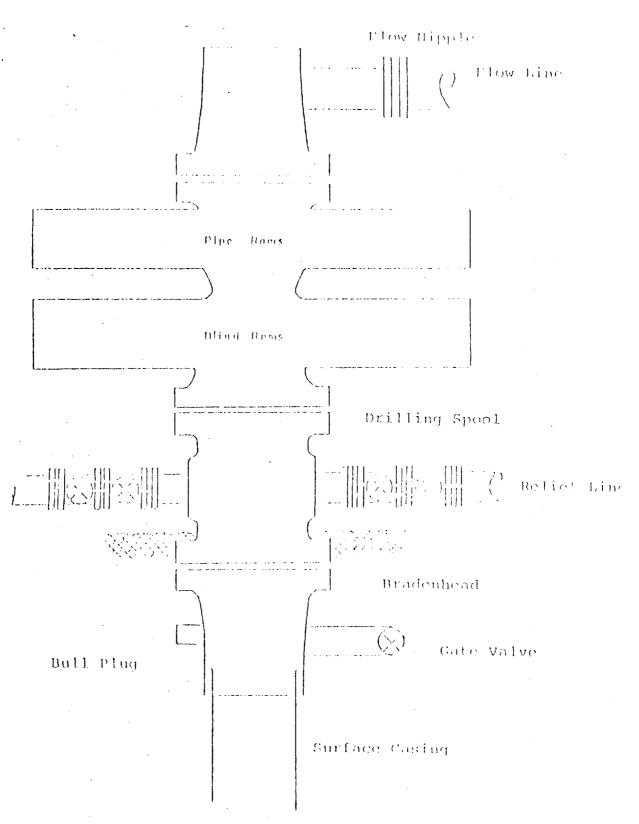
8000

Well Name: Moore

SE 27-32-12 MU

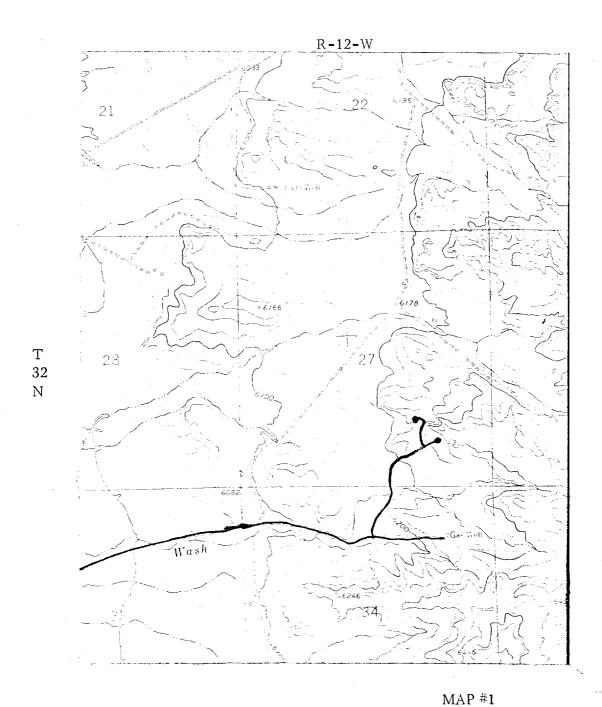
cut 8 ft

Typical H.O.T. Installation for Mena Verde 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 hipple and the flow line is converted into a blowie line -

EL PASO NATURAL GAS COMPANY Moore #1A SE 27-32-12



LEGEND OF RIGHT-OF-WAYS

ROADS -	EXISTING
PIPELINES +++	EXISTING
ROAD & PIPELIME -+-+-+	EXISTING
	PROPOSED
PIPELINES +++	
RCAD & PIPELINE	PROPOSED

EL PASO NATURAL GAS COMPANY Moore #1A SE 27-32-12

		R-12	2-W		
7	8	9 R-1	A(MO) AZTEC 20 WIO	Aztec 2(MD) Southland 11 0 24 Hubbard	Great Western 2 42 Decker
Colo. Western	EPNG	Universal Res.	Aztec 3	Aztec	EPNG Kimbark
Bowie Thatcher 18 EPNG	17 H-42	16 × M	0 ^{3A} 0 ^M	O M (MO)	8 mm 10 10
oundiff Coundiff	Cundiff"A"	State M	Hubbard		Moore Horton
E PINCE	E.R.G. II.C.	Aztec	Aztec 5A 茶 茶 ^M M	ERNG	Aztec #
Aztec O¢G	Federal Com Aztec 12:A	601. H. 91 15.A	22Hubpard	Moore 23 Astecosa	Dalsant Unit
Mepper Martin Astec OfG	Culpepper-Martin	Culpepper Martin	Sulpepper Mortin	M Decker	Moore Paul
9A-	# #3182014 # # # # # # # # # # # # # # # # # # #	Astec Of G	Kimberk EPNG	Tenneco Aztec Z(MD) ZA Z:c M D Tenneco Aztec	ZA TA
30	29 11.4	28	27 Tenneco	Moore Decker	M 2 Premeco
MA desper-Martin	Cuisesper Martin Aztec OtG	Culpepper Mortin	Horton Modre	Moore 0 M	Moore Moord
	**************************************	Aztec *	EA EPNG Tenneco	Tenneco Aztec	3aAJ-3+ Mesa Pet 4h-35
31 ☆	32 (MO) 14-A	33 6-A	34 4A	New berry 5 Moore	State com A.J M 36 -A.!
1/222- M	Cuipepper Martin	₩ "	Man #2	Hillstrom M	State Com

Map #2 Proposed Location ●