#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES MENT OF THE INTERIOR

		TED STATES T OF THE IN	TERIOR	reverse s	ide)	30 - 0 45 5. LEASE DESIGNATION	AND SERIAL NO.	
	GEOLG	OGICAL SURVE	Y			SF 078147		
	N FOR PERMIT	TO DRILL, DI	EEPEN, OR	PLUG E	BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a. TYPE OF WORK  DR  b. TYPE OF WELL	ILL 🖺	DEEPEN [	PL	UG BA	ск 🗆	7. UNIT AGREEMENT I	NAME	
oir [ c	AS OTHER		SINGLE X	MULTIP ZONE	LE []	8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR	TELLI CITTER		2011			Moore		
El Pa <b>so</b> Na	tural Gas Co	mpany			-	9. WELL NO.		
3. ADDRESS OF OPERATOR			··	<del></del>		3A	<u> </u>	
PO Box 289	, Farmington	, NM 8740]	L		ľ	10. FIELD AND POOL,	OR WILDCAT	
	eport location clearly an		any State requirem	ents.*)		Blanco Mes	a Verde 🥕	
_ At surface	1790'S, 9	10'E			ŀ	11. SEC., T., B., M., OR	BLK.	
At proposed prod. zor	ne					Sec. 13, T-3	2-N,R-12-W	
F.O.F.O.C. F 20	same					NMPM	•	
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POST	OFFICE*			12. COUNTY OR PARISE	13. STATE	
8 miles So	utheast of L	aPlata, NM				San Juan	NM ,	
15. DISTANCE FROM PROP LOCATION TO NEARES		-	16. NO. OF ACRES I	N LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE !	LINE, FT.	850 <b>'</b>	224	0.00	10 11	IS WELL	320.00 ~	
18. DISTANCE FROM PROI	POSED LOCATION*		19. PROPOSED DEPTI		20. ROTAR	Y OR CABLE TOOLS		
TO NEAREST WELL, D OR APPLIED FOR, ON TH	ORILLING, COMPLETED, HIS LEASE, FT.	2800'	582	4'	Rotar	У		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	'		<del></del>		22. APPROX. DATE W	ORK WILL START*	
6514 <b>'</b> GL								
23.		PROPOSED CASING	AND CEMENTIN	G PROGRA	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING	DEPTH		QUANTITY OF CEME	NT	
13 3/4"	9 5/8"	32.3#	2.0	0'	224 C	cu.ft. to circulate		
8 3/4"	7"	-	20.0# 3405'			u.ft.to cov		
6 1/4"	4 1/2"line		3255-5		448 cu.ft.to fill to			
Selectively	y perforate d	and sandwat	ter fractu	ire the	e Mesa	Verde form	ation.	
blind and p	WP and 6000 pipe rams wi							
	s dedicated.					N 7 / 1910		
The $S/2$ of	Section 13	is dedicate	ed to this	well/	<b>L</b>	.`		
IN ABOVE SPACE DESCRIBI zone. If proposal is to preventer program, if an	E PROPOSED PROGRAM: If drill or deepen direction	proposal is to deeper ally, give pertinent o	n or plug back, giv data on subsurface	e data or p locations a	resent produ nd measured	active zone and propose and true vertical dept	ed new productive hs. Give blowout	
SIGNED	9. Buse	<u></u>	EDri	lling	Clerk	DATE NOV	.13, 1978	
(This space for Fede	eral or State office use)					<del></del>		
	•							
PERMIT NO.			APPROVAL DAT	re	<del></del>			

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY \_

All distances must be from the outer boundaries of the Section.								
Operator		•	Lease				Well No.	
	TURAL GAS COM	PANY	MOORI	<u> </u>	(SF	' <b>-</b> 078147)	34	
Unit Letter	Section	Township	Ronge		County	•		•
I	13	32N	12	W	San Ji	uan ·		
Actual Footage Loc						_	_	
1790			<u>and</u> 910	fee	t from the	East	line	
Ground Level Elev.	Producing For		Pool	<b>7</b> .3			ated Acreage:	
0214	Mesa V	erae	- <u>l</u>	Blanco Me	sa Verd	e 3	20.00	Acres
1. Outline th	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 that dated by c	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?							
X Yes	☐ No If an	nswer is "yes;" ty	pe of consolid	ation	Commu	<u>mitization</u>		
If answer	s "no," list the	owners and tract o	descriptions w	hich have ac	tually bee	en consolidated.	(Use reverse	side of
this form i	necessary.)		<del></del>					
No allowab	le will be assign	ed to the well unti	ll all interests	have been c	onsolidat	ed (by communit	ization, unit	tization,
forced-pool	ing, or otherwise)	or until a non-star	ndard unit, eli	minating sucl	h interest:	s, has been appr	oved by the (	Commis-
sion.	· · · · · · · · · · · · · · · · · · ·							
				·		CER	TIFICATION	
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	1		1			best of my know	ledge and belie	f.
	1 -		1			1 1. 4	Husco	<i>-</i> )
						Name Drilling C		1
	i		!				TELY	
	1	·	1			Position El Paso Na	tural Ga	s Co.
	1		1			Company November 1	3, 1978	
	l ,		Lake Spine	•		Date		
				***		•		
Na -		زـــ			K	,		
	!		i			I hereby certify	that the well	l location
/ un	1		1			shown on this pl	at was platted	from:field
#3	. 1	SF-078147	1	91		notes of actual	surveys made	by me or
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<b>V</b>		,	1	O O				
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FEE			1	71	>	October 8;	1978	
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VI					<b>图</b> 2	Engla Tak	学学生	<b>†</b>
						Fred B. Ke	**-0 x / //	
O 330 CEE .	90 1320 1650 198	0 2310 2640	2000 1500	1000 50	00 0		EAR. IR.	



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

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

- 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 ditch at Aztec.
- 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 rolling hills and sandstone ledges with cedar and pinon growing. Deer are occasionally seen on the proposed project site.
- 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 #3A

I. Location: 1790'S, 910'E, Section 13, T-32-N, R-12-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6514'GR

#### II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	3205 <b>'</b>
		-	Ojo Alamo	1240'	Mesa Verde	4700 <b>'</b>
			Kirtland	1260'	Menefee	5000 <b>'</b>
			Fruitland	2580 <b>'</b>	Point Lookout	5374 <b>'</b>
			Pic.Cliffs	3045'	Total Depth	582 <b>4'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4690', 4990', 5365' 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 3405'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3 2	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3405 <b>'</b>	7"	20.0# K-55
		6 1/4"	3255-5824 <b>'</b>	4 1/2"	10.5# K-55

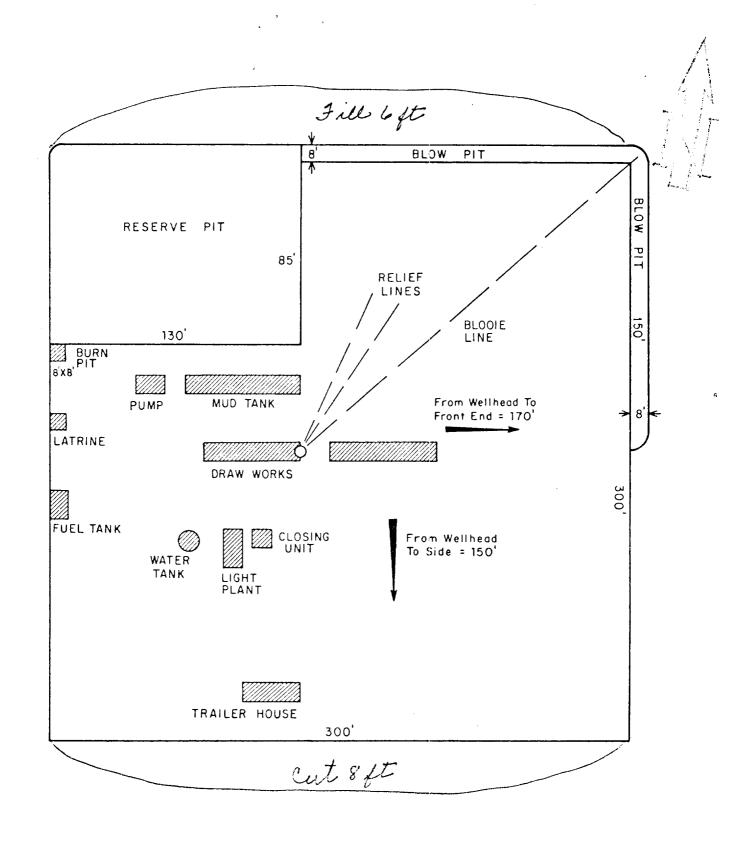
B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe
 (Part #2006-1-012).

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.

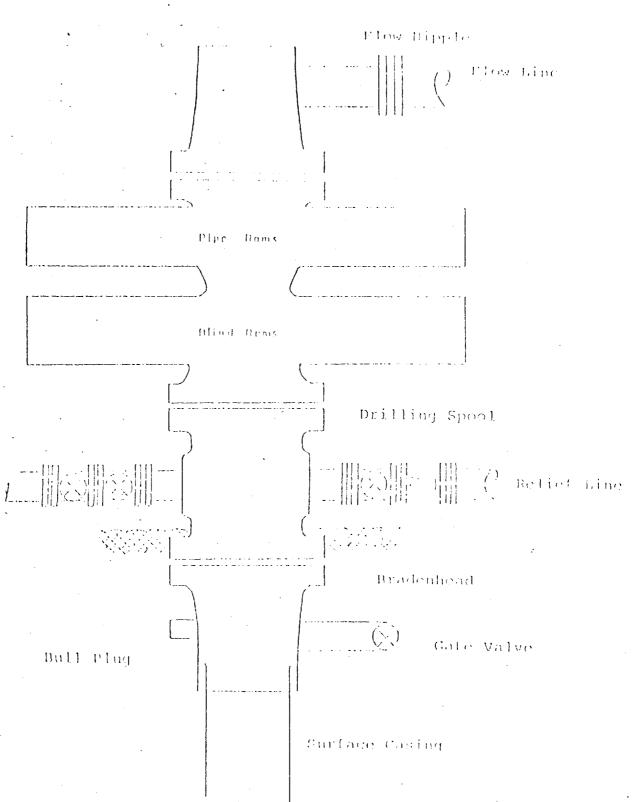
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5824' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

#### 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 228 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 (488 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 322 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (448 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

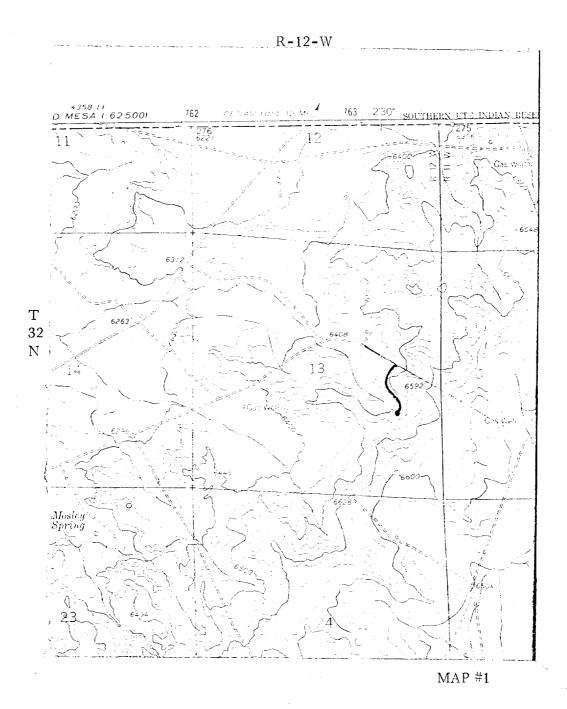


		·			ENG. REC.	DATE	El Paso Natural Gas Compan		mpany	,
		<del> </del>			DRAWN J.L.	H. 8-16-78				
			•		CHECKED		TYPICA	L LOCATION PLA	T FOR	
				<del></del>	CHECKED		MESAVERDE OR DAKOTA DRILL SI		2111 6170	_
					PROJ. APP.		WIESAVERDE	OR DAROTA DE	VILL SIII	<b>C</b> .
PRT.	SEP.	DATE	то	w.o.	DESIGN		-111	DWG.		REV.
PRINT RECORD			w.o.		SCALE: 1" = 50"	NO.		nev.		



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 NATURAL GAS COMPANY Moore #3A SE 13-32-12



### LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	<b>→</b> + →
EXISTING	ROAD & PIPELIN	B,-+-+
PROPOSED	ROADS	
PROPOSED	PIPELINES	+ + +
	PIPELINES ROAD & PIPELIN	+ + + E + +

# EL PASO NATURAL GAS COMPANY Moore #3A SE 13-32-12

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31	32 (MO) 14-A	33 6-A	34	New Derry 5 Moore	State com A. M
Moeoper Mertin	Cuipepper Martin	Culpepper Martin	Map #2	Hillstrom OM	State Com

Proposed Location