SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

Porm approved. Budget Bureau No. 42-R1425.

# **UNITED STATES**

20-695-23313

DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY					5. LEASE DESIGN	ATION AND SERIAL NO.
					SF 0785	
APPLICATION	FOR PERMIT	O DRILL, DEER	PEN, OR PLUG B	ACK	6. IF INDIAN, AL	LOTTEE OR TRIBE NAME
a. TYPE OF WORK		·			-	
	LL 🖺	DEEPEN 🗌	PLUG BAC	CK 🗆	7. UNIT AGREEM	
<b>b.</b> Type of well oil [ ] Ga	.s [닷]	;	SINGLE ( ) MULTIP	LECT	8. FARM OR LEA	n 32-9 Unit
WELL WI	ELL OTHER		ZONE ZONE			n 32-9 Unit
	tural Gas Cor	npanv		ļ	9. WELL NO.	
. ADDRESS OF OPERATOR					42A	
PO Box 289	, Farmington,	, NM 87401			10. FIELD AND P	OOL, OR WILDCAT
. LOCATION OF WELL (Re	port location clearly and	in accordance with any	State requirements.*)		Blanco	Mesa Verde
At Suitace	840'S, 146	50 <b>'</b> E			11. SEC., T., R., 1	
At proposed prod. zone	e					<b>-</b> 31=1, R-9-W
	same				NMPM	
	ND DIRECTION FROM NEAR		CE*			ARISH 13. STATE
	ast of Cedar				San Jua	1_
15. DISTANCE FROM PROPO LOCATION TO NEABEST		840'			F ACRES ASSIGNED HIS WELL	E/315.84 -
PROPERTY OR LEASE LI (Also to nearest drig	. unit line, if any)				<u>4 +</u>	<b></b> /,
<ol> <li>DISTANCE FROM PROPO TO NEAREST WELL, DR</li> </ol>	HLLING, COMPLETED,	2400'	PROPOSED DEPTH	Rotar	BY OR CABLE TOOL	<b>3</b> 
OR APPLIED FOR, ON THE				1-10-0		TE WORK WILL START*
6599 GR	mer Dr, 161, Git, ew.)					IL WOLL WILL START
3.		DODOGED GAGING AN	ID CHICKNESS PROCES	3.5	1 2 4 2	
		RUPUSED CASING AN	ND CEMENTING PROGRA	·M	<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF	
13 3/4"	9 5/8"	32.3#	200'			circulate
8 3/4"	4 1/2"line	20.0# r 10.5#	3735' 3585-6160'			cover Ojo Al fill to 3585
Selectively	y perforate a	and sandwate	r fracture the	e Mesa	a Verde f	ormation.
				~		
			uble gate pre			
blind and p	pipe rams wil	ll be used fo	or blow out p	re <del>vent</del>	ion en t	<del>his w</del> ell.
		•		KF	CEIVE	ט
m\- i i -	- 3-33		1000	. \ \ : -		
This gas is	dedicated.	_	132 60	n Inf	C 1 4 1978	
				3		<u> </u>
•			1°60 55 5	H & C	EOLOGICAL SUI	NEA .
The E/2 of	Section 6 is	dedicated	to this well.	7 FARI	MINGTON, N. A.	
N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If	proposal is to deepen or	plug back, give data of pr			
one. If proposal 18 to d reventer program, if any		ny, give pertinent data	on subsurface locations an	u measured	and true vertical	ueptas. Give blowout
4.	U 2 .					
SIGNED .	J. Dusca	TITLE	Drilling	Clerk	DATE	12-12-78
	nal on State (#					
(This space for Federal or State office use)						
PERMIT NO APPROVAL DATE			<u> </u>			
				÷ *;		4
APPROVED BY		TITLE			DATE	· <u> </u>

\*See Instructions On Reverse Side

Ok Frak NWU Unit Olgreenut

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must be	from the outer boundaries of	the Section.	
Operator			Lease		Well No.
	TURAL GAS COM		······································	<sub>UNT1</sub> (SF-07850)	9)   422 -
Unit Letter	Section	Township	Range	County	
Actual Footage Loca	6	311/	W	San Juan	
SLO		41-	2) (0		_
Ground Level Elev:	feet from the D	outh line and	1460 feet	from the East	line Dedicated Acreage:
5599	Mesa Ve		Blanco Mes	sa Verde	275 811 -
	· · · · · · · · · · · · · · · · · · ·		·		
			vell by colored pencil o		•
	an one lease is	dedicated to the we	ll, outline each and ide	ntify the ownership	thereof (both as to working
		ifferent ownership is nitization, force-pool		have the interests o	f all owners been consoli-
X Yes	No If ar	swer is "yes," type	of consolidation	Unitizatio	n
	s "no," list the	owners and tract des	criptions which have ac	ctually been consolic	lated. (Use reverse side of
No allowab	le will be assigne				nmunitization, unitization, n approved by the Commis-
	1799				0.50.7.5.0.7.0.0
1		K	l	K	CERTIFICATION
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		M	1	PA1	erein is true and complete to the ny kṛṭọwledge aṇd belief.
	•	K	ا #42		
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		🞾 -	' O 	Norme Drill	ing Clerk
48	1	K.	1 .	Position	
N		KØ	•	El Pa	so Natural Gas Co.
	1	KØ .	· · · · · · · · · · · · · · · · · · ·	Company	how 12 1070
	ł	K 🖁		M X	ber 12, 1978
	,		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date	
	Sec	: X \		<b>X</b>	
<u> </u>					
	,	6		A haraby	certify that the well location
	1	KM °		K K	this plat was plotted from field
	1	K SF-078	3509 FEE	SV	actual surveys made by me or
	ı	K 🖁		1625 I	supervision, and that the same
	1			is true	and correct to the best of my
	1	X	×	knowled	ge and belief.
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2.1		KØ.		<b>3</b>	
265	1	ΚN		Date Surve	yed
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ļ	1	<b>M</b>		KY VI	Professional Engineer
İ		Na R	0	and La	nd Surveyor
		M	078	Zie-	a superior
ļ	i	No transport		Certificate	B. Kerrur.
<u> </u>	/7 23			2050	12.



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

#### Multi-Point Surface Use Plan San Juan 32-9 Unit #42A

- 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 Drainage facilities may include erosion. 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 Hart Canyon Water Well.
- 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 pinon and cedar growing. Deer are occasionally seen on the proposed porject 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 San Juan 32-9 Unit #42A

I. Location: 840'S, 1460'E, Section 6, T-31-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6599'GR

#### II. Geology:

Α.	Formation T	ops:	Surface	San Jose	Lewis	3535 <b>'</b>
			Ojo Alamo	1785 <b>'</b>	Mesa Verde	5085 <b>'</b>
			Kirtland	1860'	Menefee	5340 <b>'</b>
			Fruitland	30 <b>40'</b>	Point Lookout	5709 <b>'</b>
			Pic.Cliffs	3415'	Total Depth	6160'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5075', 5330', 5700' 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 3735'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	Depth 200'	9 5/8"	32.3# H-40
		8 3/4"	3735 <b>'</b>	7"	20.0# K-55
		6 1/4"	3585-6160'	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.

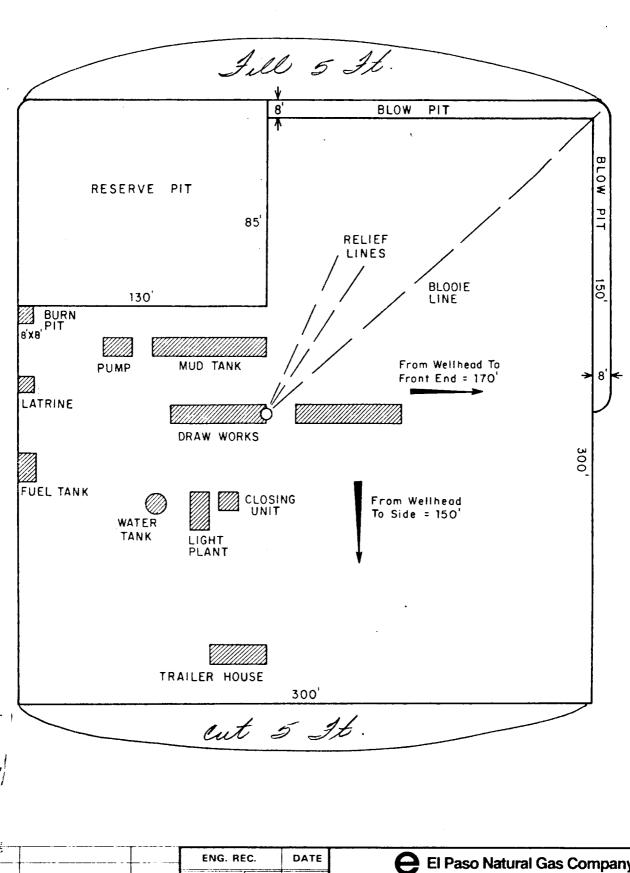
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6160' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead 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 199 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 (440 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 323 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (449 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



DRAWN J.L.H. 8-16-78 CHECKED CHECKED PROJ. APP PRT. SEP. DATE TO DESIGN w.o. PRINT RECORD w.o.

### El Paso Natural Gas Company

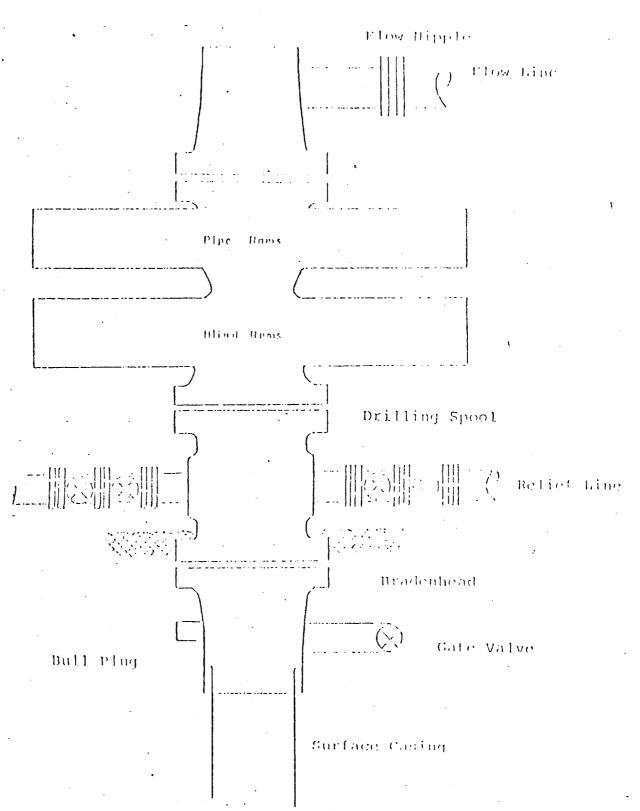
TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50"

DWG. NO.

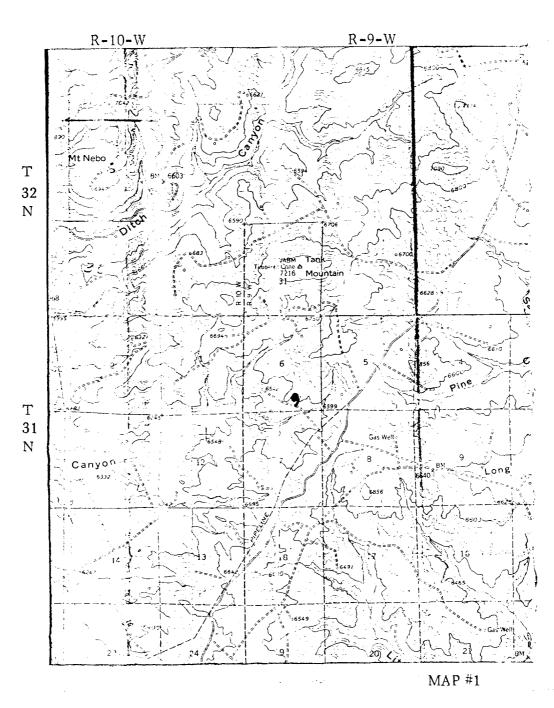
REV.

#### Typical N.O. to Tostallarlon for Mesa Cerae 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.

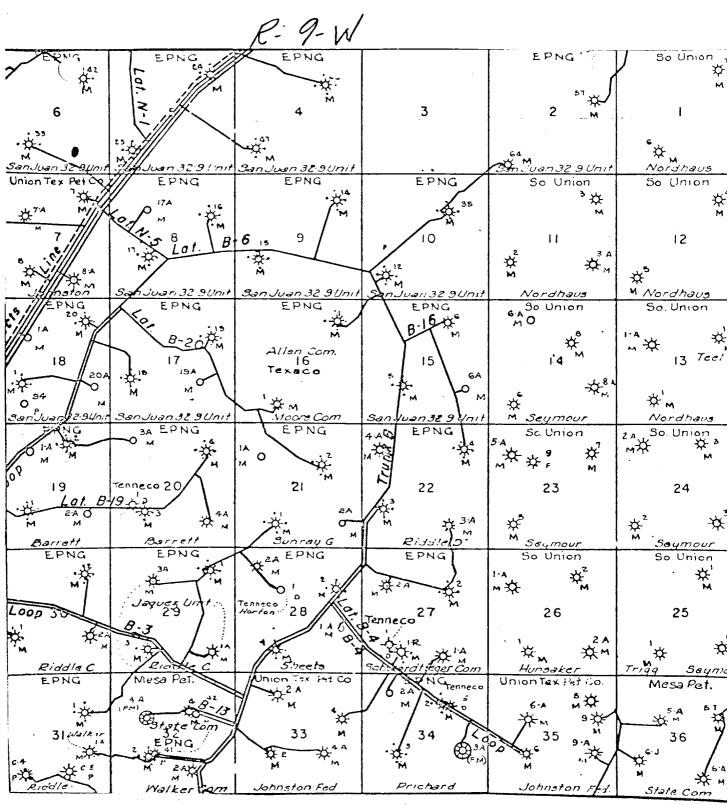
### EL PASO NATURAL GAS COMPANY San Juan 32-9 Unit #42A SE 6-31-9



LEGEND OF RIGHT-OF-WAYS

EXISTING		
EXISTING	PIPELINES	<b>+++</b>
	ROAD & PIPE	LINE -++
PROPOSED		
PROPOSED	PIPELINES	+++
PROPOSED	ROAD & PIPE	LINE -++

EL PASO NATURAL GAS COMPANY
San Juan 32-9 Unit #42A
SE 6-31-9



Map #2 Proposed Location

131 N