#### SUBMIT IN TRIPLICATE\*

(Other listractions on reverse ride)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

CEOLOCICAL SHOVEY

30 - 0	45-22374 DESIGNATION AND SERIAL NO	
5. LEASE	DESIGNATION AND SERIAL NO	١.
SF	078415	

	GEQLO	GICAL SURV	E.Y			SF 078415	
APPLICATION	V FOR PERMIT 1	O DRILL,	DEEP	EN, OR PLUG E	BACK	G. IF INDIAN, ALLOTTER OR TRUBE NAME	
	LL K	DEEPEN		PLUG BA	ск 🗆	7. UNIT AGREEMENT NAME	
OIL G	AS [			INGLE X MULTIP	LE	E. FARM OR LEASE NAME	
WELL WELL X OTHER ZONE X ZONE . NAME OF OPERATOR			Roelofs A				
El Paso Natural Gas Company					9. WELL NO.		
3. ADDRESS OF OPERATOR					2R		
PO Box 990, Farmington, NM 87401					10. FIELD AND FOOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface						Blanco Mesa Verde	
/<	1808'S, 1500'	W				11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zon	e					Sec.14,T-29-N,R-8-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFIC	;e •	<del></del>	NMPM 12. COUNTY OR PARISH: 13. STATE	
						San Juan NM	
15. DISTANCE FROM PROPE			16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED	
PROPERTY OR LEASE I.  (Also to nearest drig	INE, FT.				TOT	320.00	
18. DISTANCE FROM PROP	OSED LOCATION*		19. P	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, D OR APPLIED FOR, ON THE	IS LEASE, FT.			6015'	Rot	ary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*	
6735'GL					<u> </u>		
<b>23.</b>	P	ROPOSED CASI	NG AN	D CEMENTING PROGRA	A.M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#		200'	224	cu.ft. to circulate	
8 3/4"	7"	20.0#_		β675 <b>'</b>	296 0	cu.ft.to cover Ojo Alam	
6 1/4"	4 1/2"	10.5#		β525-6015'	434	cu.ft.to fill to 3525'	
A 3000 psi and pipe ra	· -	psi test	dou	ble gate prev	venter	e Verde formation.  The equipped with blind this well.	
mbo W/2 of	Section 14 i	c dodica	F04	to this wall	Ţ	MAR 1 5 1977	
IN ABOVE SPACE DESCRIBE sone. If proposal is to	: PROPOSED PROGRAM: If p drill or deepen directional	proposal is to dee	pen dr	pluddick are data on pr	resunt prod	uctive zone and proposed new productive d and true vertical depths. Give blowout	
preventer program, if any	y.			OIL COLS	/		
BIGNED J.	Busco	ri:	rle	Drilling Cle	rk	DATE <u>March 15, 19</u> 77	
(This space for Fede	ral or State office use)		············			·	
PERMIT NO.				APPROVAL DATE	•		
APPROVED BYCONDITIONS OF APPROV		Tir	rl <b>e</b>			DATE	

Olas

\*See Instructions On Reverse Side

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

		All distances must be from		the section.	Well No.
Operator	PASO NATURAL C	1	ROELOFS A	(SF-078415)	2R
Unit Letter K	Section 14	Township 29-N	Range 8-W	County SAN JUA	N
Actual Footage Lo 1808		SOUTH	1500	WEST	lu-
Ground Level Elev		mation P	∞l	t from the	line Dedicated Acreage:
6735		SA VERDE		ESA VERDE	320.00 Acres
1. Outline t	he acreage dedica	ted to the subject well	by colored pencil of	r 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).				
		ifferent ownership is de initization, force-pooling		have the interests of a	all owners been consoli-
Yes	No If a	nswer is "yes," type of	consolidation		
If answer	is "no." list the	owners and tract descri	ptions which have a	ctually been consolidat	ed. (Use reverse side of
this form	if necessary.)				
					unitization, unitization, approved by the Commis-
sion.	oling, or otherwise,	of Billia non-standard	unit, criminating su	in interests, has been t	approved by the dominis-
XXXXXXXX	*****	XXXXX		<del></del>	CERTIFICATION
X ·		×	<b>i</b>	·	
X		×	1	11	rtify that the information con- in is true and complete to the
X	: 1	×	<b>1</b>	1 1	knowledge and belief.
×	1	8	i	Original Sty <b>D. G. B</b> r	
	SF-078415	8	and sections of	Nome	1304
8				Position	ing Clerk
	<b>!</b>	× ·	/ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	`\	
	1	×	MAR 3.6 197	7 Company Pa	so Natural Gas C
	1	2727 D. 7.	Von Salas	Domarch	15, 1977
X	<u>_</u>	SECTÓDN 14			
X	i t			1 hereby	certify that the well-location
×	ì	8	·	shown on t	his plat was plotted from field
150	0'	×	1	i i	ctual surveys made by me or upervision, and that the same
<b>8</b> —	<del></del>	×	1		d correct to the best of my
×	" i	×	! !	knowledge	and belief.
<b>8</b>	++			11	
	,808,	×	i	Date Surveye	
X	1 18/	×	ļ	( )	ARY 28, 1977
			!   	and/or L and	
M XXXXXXXXX				Certificate N	1760
0 330 660	90 1320 1620 19	80 2310 2640 2000	1500 1000	500 0	T100



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

#### Multi-Point Surface Use Plan Roelofs A #2R



- 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 thirty feet (30') 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. 1
- 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 and proposed 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 SW/4 Section 9, T-29-N, R-8-W (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.

- 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 green.
- 11. Other Information The terrain is sandstone ledges cover with some cedar on the location. Cattle and deer are occasionally on 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.

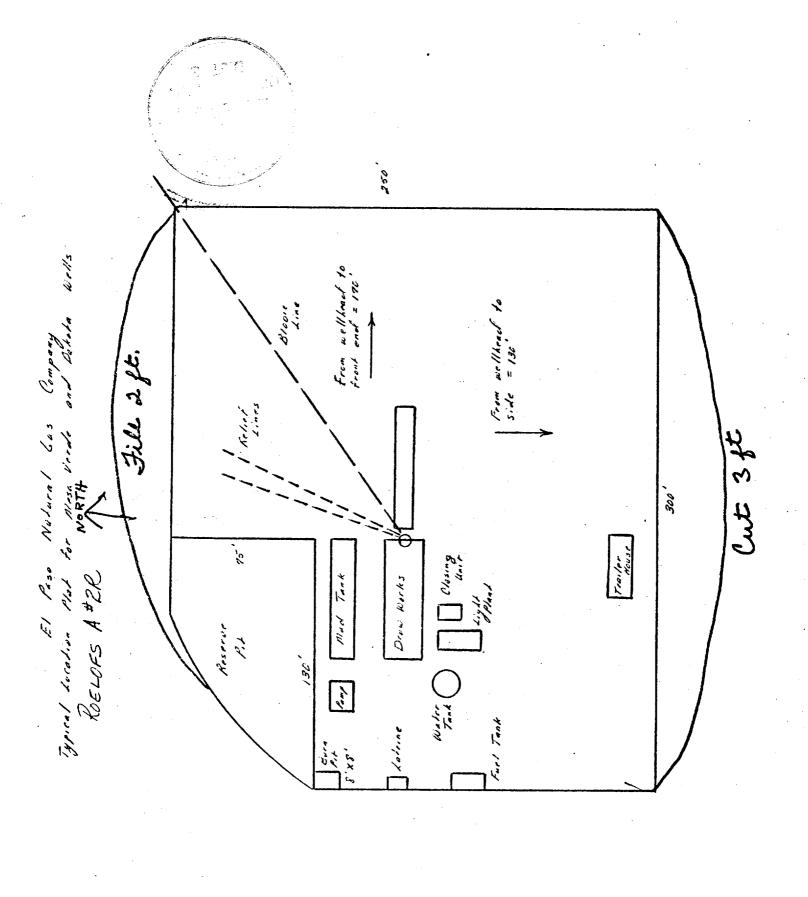
March 15, 1977

D. R. Read

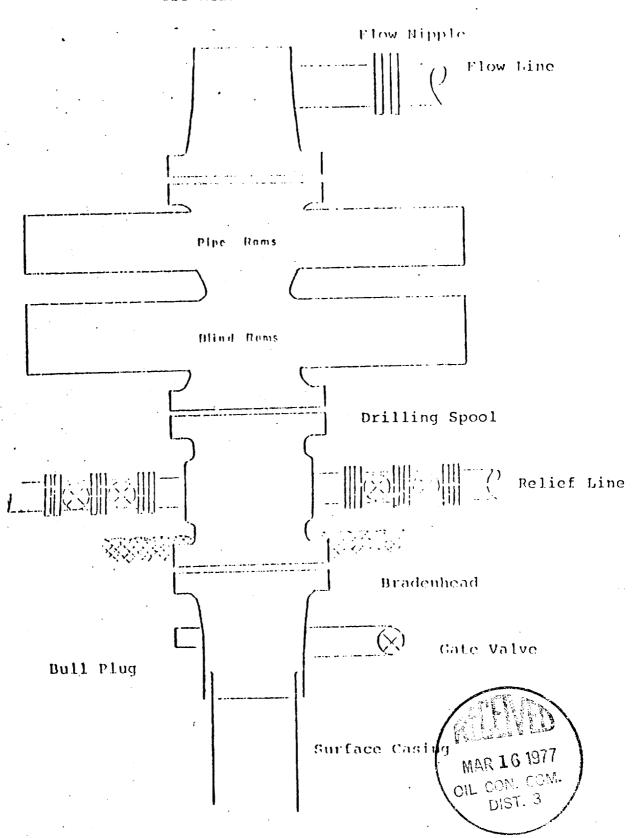
Division Drilling Engineer

DRR:pb





# Typical B.O.P: Installation for Mesa: 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 nipple and the flow line is converted into a blowie line

#### Operations Plan Roelofs A #2R

I. Location: 1808'S, 1500'W, Section 14, T-29-N, R-8-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6745'DF

#### II. Geology:

A.	Formation Top	s: San Jose	surface		
	_	Ojo Alamo	2360'	Lewis	3475'
		Kirtland	2555 <b>'</b>	Mesa Verde	5030'
		Fruitland	3125'	Menefee	5225'
		Pic.Cliffs	3380'	Point Lookout	5615'
				Total Depth	6015'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5020', 5215', 5605' and at Total Depth Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

  Drilling:

#### III. Drilling:

A. Mud Program: mud from surface to 3675'. 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"	3675 <b>'</b>	7"	20.0# K-55
		6 1/4"	3525-6015'	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 T.I.W. liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6015' 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 - Roelofs A #2R

#### 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 68 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 (296 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 24l sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (434 cu.ft. of slurry, 70% excess to circulate liner).

DRR:pb

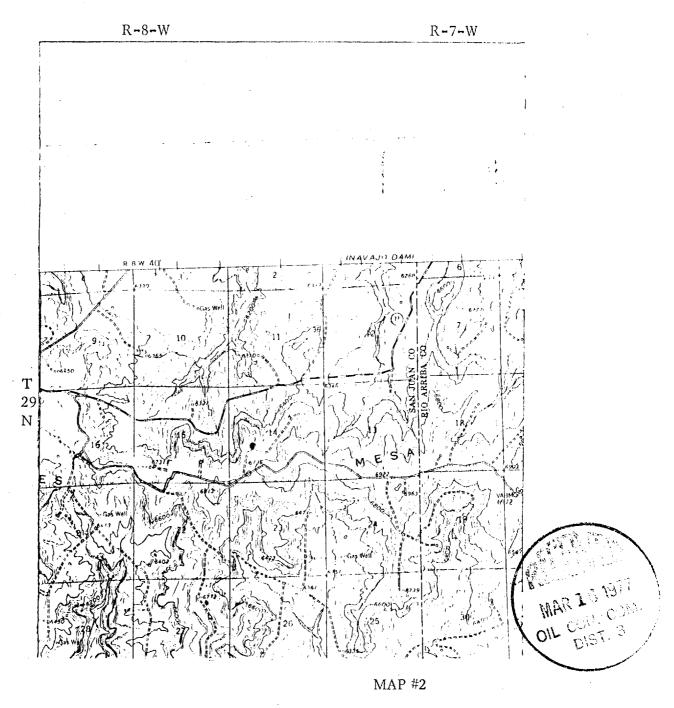


## EL PASO NATURAL GAS COMPANY ROELOFS A #2R SW 14-29-8

Union Tex Mesa Pet. Ively O M EPNO PNG EPNG 31(MD(D) 10 Hill Tenneco  $\phi^3$ Mesa Pet Lively ø, 03113 13 15 TENG EPNG JP McHugh 20 I.F. Hughes EPNG EPNG McHugh EPNG Dana 25 28 ineco 27 Jones Bolin Hughes EPNG ) EPNG Tenneco Mesa Pet. м О 36 31 33 4 (PM) State Com Jones Prichar **MAP #1** 

Proposed Road -

## EL PASO NATURAL GAS COMPANY ROELOTS A #2R SW 14-29-8



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADG	<del></del>
EXISTING	PIPELINES	+++
EXISTING	ROAD - PIPELI	ME-1-1-
PROPOSED	ROADS .	<del></del>
PROPOSED	PIFELAMES	+++
PROPOSED	ROAD & FIFELD	NE <del></del>