#### SUBMIT IN TRIPLICATE\*

UNITED STATES
DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

	GEOLO	GICAL SURVI	EΥ			SF_078210
APPLICATION	FOR PERMIT	O DRILL, [	DEEP	EN, OR PLUG E	3ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	L X	DEEPEN [		PLUG BA	ск 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL GAS WELL WE	LL X OTHER			NGLE MULTIH	'LK	8. FARM OR LEASE NAME
2. NAME OF OPERATOR						San Juan
El Paso Na 3. Address of Operator	tural Gas Co	ompany				9. WELL NO.
PO BOX 990 4. LOCATION OF WELL (Rep. At surface	, Farmington port location clearly and	in accordance with	401 th any S	state requirements.*)	<del></del>	10. FIELD AND POOL, OR WILDCAT  Blanco Mesa Verde
	1850'S, 1	190'E	-			11. BEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone						Sec.1,T-30-N,R-10-W
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	E.*		12. COUNTY OR PARISH 13. STATE
8 miles Ea	st of Aztec	, NM				San Juan NM
15. DISTANCE FROM PROPOS LOCATION TO NEAREST			16. NO	), OF ACRES IN LEASE		of ACRES ASSIGNED E/ 289.84
PROPERTY OR LEASE LI (Also to nearest drlg.	NE, FT. unit line, if any)	130'		69.92		<del>290</del> .84
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	ILLING, COMPLETED,	0.501	19. PI	COPOSED DEPTH		ARY OR CABLE TOOLS
OR APPLIED FOR, ON THIS		250	<u> </u>	5955'	Rota	Y 22. APPROX. DATE WORK WILL START*
21. ELEVATIONS (Show when 6544 GR	ner Dr, RI, GR, etc.)					
23.		PROPOSED CASI	NG ANI	O CEMENTING PROGR	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH	T	QUANTITY OF CEMENT
13.3/4"	9.5/8"	32,3#		200'	224	cu.ft. to circulate
8 3/4"	7"	20.0#		3640'		cu.ft.to cover-0jo Alam
6 1/4"	4 1/2"line	1		3490-5955'		cu.ft.to fill to 3490'
, ,	•	ı		1		
Coloativol	u norforato	and cand	a+c	r fracture t	-he Me	sa Verde formation.
serective	ty periorate	and sand	wate	er fracture (	ine ric	.sa verae roma erom.
A 3000 psi blind and	WP and 600 pipe rams w	0 psi tes ill be us	t do ed f	ouble gate protor blow out	revent preve	er equipped with ntion on this well.
This gas i	is dedicated	•				( DEC. 153)
The E/2 of	Section 1	is dedica	ted	to this well	l.	On Our.
IN THATE SPACE DESCRIBE	PROPOSED PROGRAM: If Irill or deepen direction	proposal is to dee	pen or	plug back, give data on	present pro	eductive zone and proposed new productive red and true vertical depths. Give blowout
24.	1, 1.					
SIGNED	1. Dusco	T1	ITLE	Drilling	Clerk	DATE December 8, 197
(This space for Feder	ral or State office use)					
PERMIT NO.			<del></del>	APPROVAL DATE		
APPROVED BY		TI	ITLE			DATE
CONDITIONS OF APPROV						ELICATIVA A

\*See Instructions On Reverse Side

DEC 13 1977

partington N.M.

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

All distances must be from the outer boundaries of the Section

Operator				Lease				Well No.	
- ·	ATURAL GAS	COMPAIR		SAN JUA	N	(SF-078210)		1-A_	
Unit Letter	Section	Township		ƙange	County	,			
T	1	30	NORTH	10 WEST	·	SAN JUAN			
Actual Footage Loca	ation of Well:								
1250	feet from the	SOUTH	line and	1190	eet from	the EAST	lir	-	
Ground Level Elev.	Producing Fo	rmation		Pool	1510.1	tranne /		d Avereage:	
6544.	55 ME	SA VERDE		BLANCO	MESA	VERDE /	289.	04	Acres
<ol> <li>Outline the accrage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty),</li> </ol>									
3. If more that by communitize	in one lease of di ation, unitization,	ferent owne force-poolir	rship is dedic ng. etc?	ated to the well,	have the	interests of al	lowners	been consolida	ited
(x ) Yes (	) No If o	inswer is "ye	es," type of c	consolidation	Com	munitizat.	i.on		
If answer is "n		s and tract (	descriptions w	vhich have actuall	y consol	idated. (Use re	everse si	de of this form	n if
No allowable w	ill be assigned to	the well unti non standard	l all interests I unit, elimino	have been consolating such interest	idated ( s, has b	by communitizen approved by	ation, u y the Co	nitization, forc mmission.	:ed-

# 

#### CERTIFICATION

Į h	ere	by c	ertify	that	the	info	rmati	on co	ntai	ined
herein	is	true	and	соп	plete	to	the	best	of	niy
knowle	dae	and	belie	f.						

Nome
Drilling Clerk
Position
El Paso Natural Gas Co
Company
December 8, 1977
Cole

I hereby certify that the well location shown

this plat was plotted from field notes of actual surveys made by meror under my supervision, on that the same is true and correct to the best of my knowledge and belief.

27 October, 1977

Date Surveyed

Figure 2 Professional Engineer

and/or Land Surveyor

Certificate No. 1463



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan San Juan #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 a water hole located in Pump Canyon Water Hole.
- 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 sage gray (#595-36357)
- 11. Other Information The terrain is sandstone ledges and high hills covered with pinon and cedar trees.

  Deer are occasionally seen 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.

December 8, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

#### Operations Plan San Juan #1A

I. Location: 1850'S, 1190'E, Section 1, T-30-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6544'GR

#### II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3440'
		Ojo Alamo	1900'	Mesa Verde	4895'
		Kirtland	2050'	Menefee	5085'
		Fruitland	2855'	Point Lookout	5505'
		Pic.Cliffs	3265'	Total Depth	5955 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4885', 5075', 5495' 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 3640'. 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"	3640'	7"	20.0# K-55
		6 1/4"	3490-5955'	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: 5955' 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 - San Juan #1A, cont'd.

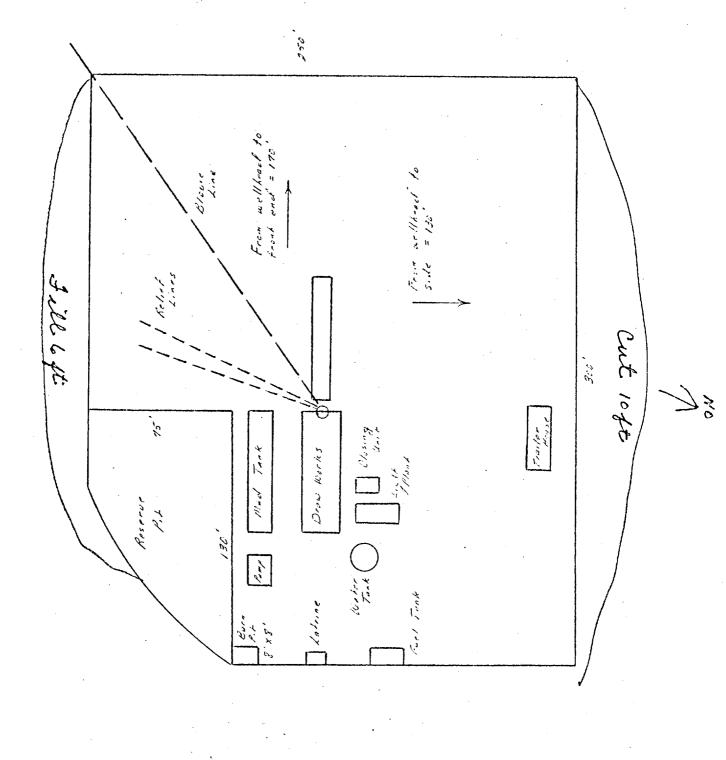
#### V. Cementing:

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.

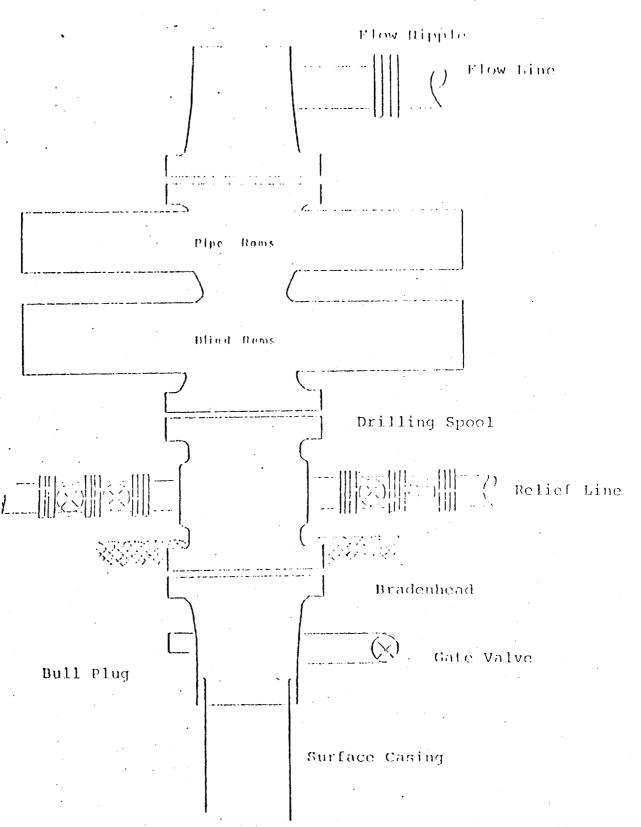
7" intermediate casing - use 420 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (682 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 252 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (429 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

Aprical Location Plat for Misse Virale and Waters Wells

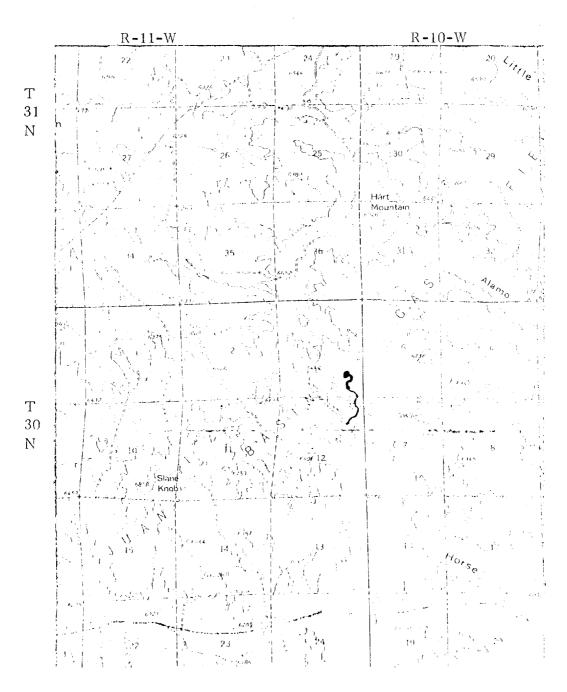


Typical N.O.P Installation
for Mesa Verde Well



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

#### EL PASO NATURAL GAS COMPANY San Juan #1A SESE 1-30-10

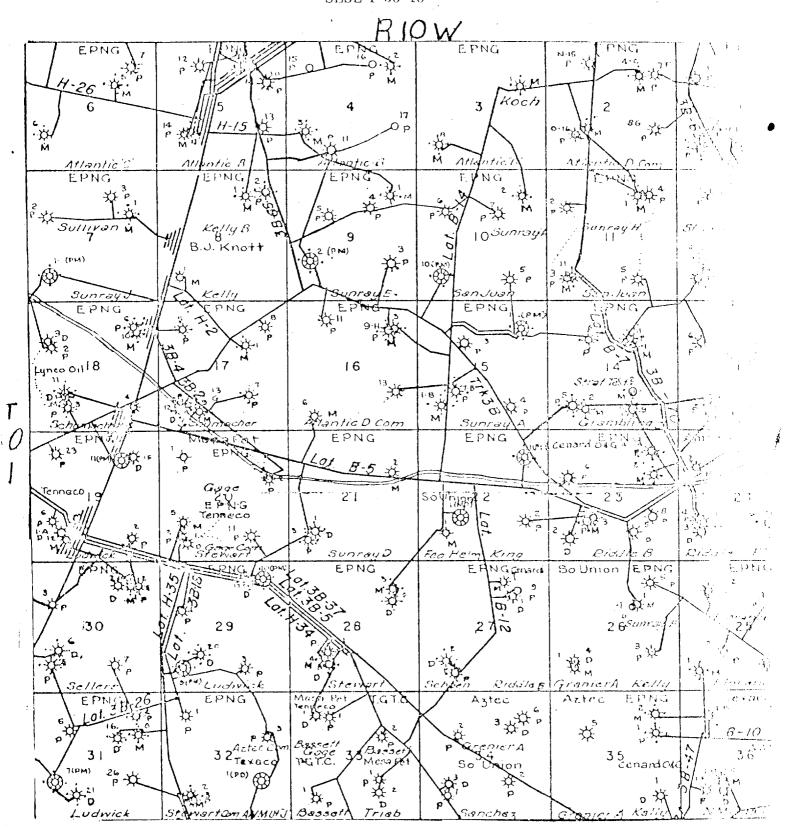


MAP #1

### TEMEND OF RICHT-OF-MAYO

EDIISTING P(	MADE .			
EXECUTING P	1.1 1711 2 - 11 15		-+	
EXISTING R	OAD - ITHESELF	<b>-</b> ·†	ţ ··· -	- 4
TROTOJED R				
PROTOGED F	HERRIES .	+	+	+
PROPOSED P	OAD FITTELI (U	-		-

#### EL PASO NATURAL GAS COMPANY, San Juan #1A SESE 1 30-10



MAP #2