#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

	UNITE	ED 9	STATE	ES	
<b>DEPART</b>	MENT	OF	THE	INTERI	OR

30 -	037	ر رئے برد <b>ہ</b>	1	9	-/ -	)
5. LEASE	DESIGNAT	TION A	ND	SER	IAL	NO.
NM	0339	<del>) 5</del> -				

	DEPARTMENT	OF THE IN	NTEF	RIOR		5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY						NM 03395
APPLICATION	N FOR PERMIT 1	O DRILL, D	EEPI	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	LL 🖺	DEEPEN [	٦	PLUG B	A CV 🗀	7. UNIT AGREEMENT NAME
b. TYPE OF WELL		DEEPEN L	J	PLUG B	ACK []	San Juan 30-6 Unit
	AS ELL OTHER			NGLE X MUL	TIPLE	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	EI,I, L_J OTHER			2011	<u> </u>	San Juan 30-6 Unit
El Paso Nat	ural Gas Com	pany				9. WELL NO.
3. ADDRESS OF OPERATOR						18A /
PO .Box 289,	Farmington,	NM 8740	1			10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re At surface	eport location clearly and 1800'S, 91		any S	tate requirements.*)		Blanco Mesa Verde -
_	1000 5, 91	UE		_	_	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
<ul> <li>At proposed prod. zon</li> </ul>				-		Sec.18,T-30-N,R-6-N
14. DISTANCE IN MILES A	Same	REST TOWN OR POST	OFFIC	r.*		NMPM 12. COUNTY OR PARISH   13. STATE
			OFFICE	•		
15 HILLES Ed	st of Blanco		16. NO	OF ACRES IN LEASE	17. NO.	Rio Arriba NM of ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE L	?	840'		Unit		320.00
(Also to nearest drlg 18. DISTANCE FROM PROP			19. PR	OPOSED DEPTH	20 ROT	ARY OR CABLE TOOLS
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,	2800		6035'	Rota	
21. ELEVATIONS (Show whe					1	22. APPROX, DATE WORK WILL START*
6424'GR						
23.	P	PROPOSED CASING	G ANI	CEMENTING PROG	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	)T	SETTING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#		200 <b>'</b>	224	cu.ft. to circulate
8 3/4"	7"	20.0#		3693'	,	cu.ft.to cover Ojo Ala
6 1/4"	4 1/2"line	r 10.5#		3545-6035'		cu.ft.to fill to 3545'
A 3000 psi	WP and 6000 pipe rams wil	psi test (	doul	ole gate pr	event <b>e</b> :	r equipped with tion on this well NOV 91978
IN ABOVE SPACE DESCRIBE zone. If proposal is to opreventer program, if any 24.  SIGNED  (This space for Feder	drill or deepen directiona	proposal is to deepe lly, give pertinent	n or p	lug back, give data on n subsurface locations  Drillin	present proc and measure	S. GFOLOGICAL  ductive zone and proposed new productive ed and true vertical depths. Give blowout  DATE 11-7-78
PERMIT NO			<del></del>	APPROVAL DATE		
APPROVED BYCONDITIONS OF APPROVE	AL, IF ANY;	TITL	E			DATE

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Operator ' ease Weil No. EL PASO NATURAL GAS COMPANY SAN JUAN 30-6 UMET (NM-03385) Section Township County 18 . 30N 6W RIO ARRIBA Actual Footage Location of Well: feet from the South 910 line and feet from the line Ground Level Elev. Producing Formation Dedicated Acreage: 642h Mesa Verde BLANCO 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? X Yes If answer is "yes," type of consolidation \_\_\_\_\_Unitization 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 Commis-THIS LOCATION HAS BEEN MOVED AT THE REQUEST OF THE ARCHAEOLOGIST. CERTIFICATION I hereby certify that the information contained herein is true and complete to the #18 best of my knowledge and belief.  $\odot$ Head Nome Drilling Clerk Position El Paso Natural Gas Co. Company November 7, 1978 Date Sec 18 NM-03385 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or 9101 under my supervision, and that the same is true and correct to the best of my knowledge and belief. j Date Surveyed +9 1978 October 1, 1978 S. CEOLOGICAL Star

1320 1550 1980 2310

### EIPaso NATURAL GAS COMPANY

P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan San Juan 30-6 Unit #18A

- 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 San Juan 30-6 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,

9 1978

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.
- Wellsite Layout Please refer to the attached Plat No. 1. 9.
- 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 rolling hills with pinon and cedar growing. Cattle are occasionally seen on the proposed project site.
- Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM 12.
- 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

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11 S. GEOLOGICAL REMARKS

#### Operations Plan San Juan 30-6 Unit#18A

I. Location: 1800'S, 910'E, Section 18, T-30-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6424'GL

#### II. Geology:

Α.	Formation Tops:	Surface Ojo Alamo Kirtland Fruitland	San Jose 2425' 2535' 3045'	Lewis Mesa Verde Menefee Point Lookout	3495' 5185' 5285' 5584'
		Pic.Cliffs	9019	<del>-</del>	
		LIC.CITTIS	3375 <b>'</b>	Total Depth	6035 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5175', 5275', 5575' 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 3695'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program		Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3695 <b>'</b>	7"	20.0# K-55
		6 1/4"	3545-6035'	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: 6035' 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.



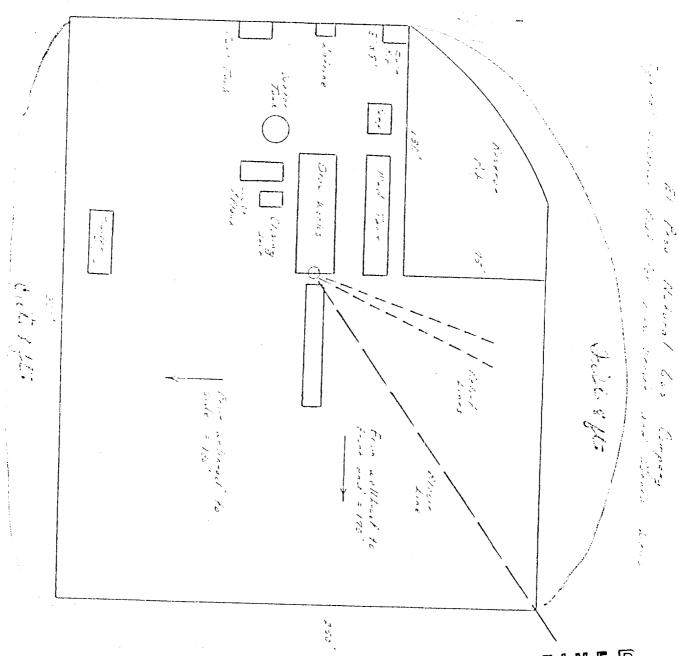
#### V. Cementing:

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 104 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 (286 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 312 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (434 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



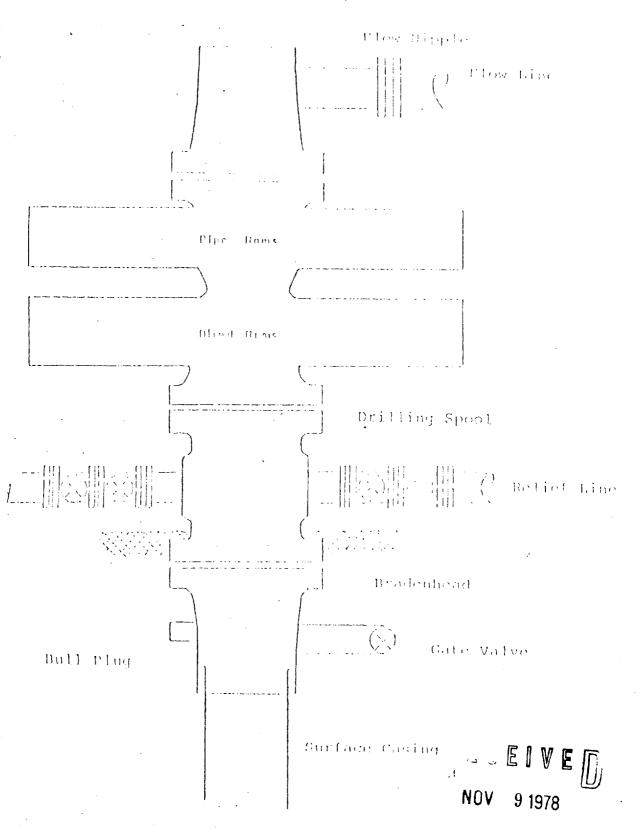


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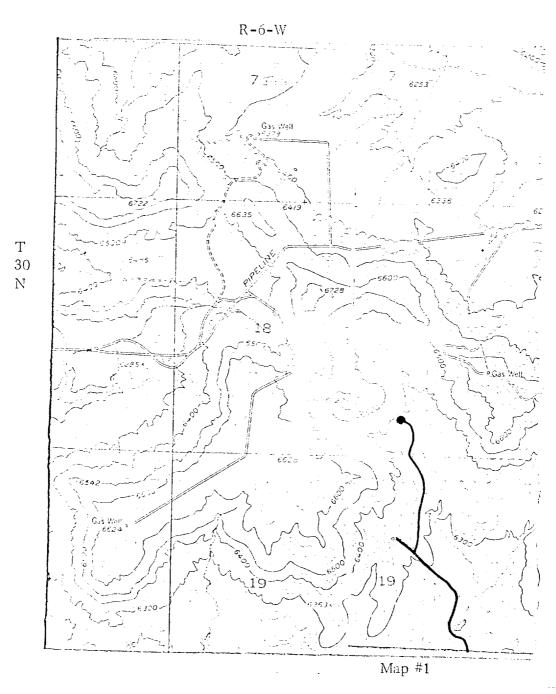
S. GEOLOGICAL \*\* ?

## Typical B.O.E. The Eatlation for Mena Vende 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 30-6 #18 A SE 18-30-6



# NOV 9 1978 EXISTING ROADS EXISTING PIPELINES EXISTING ROAD & PIPELINE PROPOSED ROADS PROPOSED PIPELINES PROPOSED ROAD & PIPELINE PROPOSED ROAD & PIPELINE PROPOSED ROAD & PIPELINE

#### EL PASO NATURAL GAS COMPANY San Juan 30-6 #18 A SE 18-30-6

