Form approved.
Budget Bureau No. 42-R1425.

	DEPARTMENT	ED STATES OF THE INTE		everse side)	30-095-	
		SICAL SURVEY			5. LEASE DESIGNATION SF 078386	N AND SERIAL NO.
A PDI ICATION	I FOR PERMIT T		DENI OD DII	IC DACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK	TOR PERIVIT I	O DRILL, DEE	PEIN, OR PLI	UG BACK		
	L 🖺	DEEPEN 🗌	PLUC	BACK 🗆	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL					San Juan	32-9 Unit
	S OTHER		ZONE X	MULTIPLE ZONE	8. FARM OR LEASE N	
2. NAME OF OPERATOR			_		San Juan	32-9 Unit
	ural Gas Com	oany			9. WELL NO.	
DO BOY 280	Farmington,	NIM 07401			18A	
	port location clearly and		54.4		10. FIELD AND POOL,	
At surface	800'N, 178		y State requirements	i.*)	Blanco Mes	
		J VV			Sec. 1, E., M., OF	BLK.
<ul> <li>At proposed prod. zone</li> </ul>	same					31-N,K-9-W
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST OF	TCM#		NMPM 12. COUNTY OR PARIS	- 1 2 2
	rtheast of A		TCB.		San Juan	H 13. STATE NM
5. DISTANCE FROM PROPOS			NO. OF ACRES IN LE	ASE 1 17 NO 4	OF ACRES ASSIGNED	141.1
PROPERTY OR LEASE LI (Also to nearest drig.	NE, FT. unit line, if any)	800'	Unit		HIS WELL	313.79
8. DISTANCE FROM PROPO TO NEAREST WELL, DR	SED LOCATION*		PROPOSED DEPTH		RY OR CABLE TOOLS	
OR APPLIED FOR, ON THIS	LEASE, FT.	3000'	6130 <b>'</b>	Rotar	ΞY	• •
1. ELEVATIONS (Show whet 6598 GR	her DF, RT, GR, etc.)				22. APPROX. DATE W	ORK WILL START*
			-			
3.	PI	ROPOSED CASING A	ND CEMENTING P	ROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	гн	QUANTITY OF CEMI	ENT
13 3/4"	9 5/8"	32.3#	200'	224 c	u.ft. to ci	rculate
8 3/4"	7"	20.0#	3845		u.ft.to cov	
6 1/4"	4 1/2"line	c 10.5#	3695-613	0' 425 c	u.ft.to fil	1 to 3695
ı	1		ŀ	1		
Coleatinal.		J J	<b>.</b>			÷ .
perectivety	perforate ar	id sandwater	r fracture	the Mesa	. Verde form	nation.
A 3000 psi	WP and 6000 p	ngi tagt da	ible cate	nrowantar	· oaniannaa	<b>=</b> € 4.1.
blind and p	ipe rams will	l be used for	abie gate or blow-our	preventer to prevent	equipped w	$L_{\rm L}$
		. 20 0000 10	51 D10, W 00	L V CILL		метт
				The state of		: <b>1</b>
This gas is	dedicated.				1978	
	The second secon			$\boldsymbol{v}$	EC. T.	<b>j</b>
					A LONG A SUPPLEMENT	₹ ·
				7.0	表现的流列	-
The $W/2$ of	Section 17 is	dedicated	to this w	ell. 🥍 🦠		
one. It proposal is to di	PROPOSED PROGRAM: If pr	oposal is to deepen or y, give pertinent data	plug back, give dat	a on present prod	uctive zone and propos	ed new productive
eventer program if and		•			and the vertical dept	ns. Give blowout
eventer program, if any.	01 1:	•			- da da de veresear depr	ns. Give blowout
eventer program, if any.	J. Busco	. TITLE		ing Clerk		·

APPROVED BY \_\_\_

DATE \_\_

CONDITIONS OF APPROVAL, IF ANY:

TITLE \_

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

Form C-102 Supersedes ©-128 Effective 1-1-45

All distances must be from the outer boundaries of the Section. **Cperator** Well No. EL FASO NATURAL GAS COMPANY (SF-078386) SAN JUAN 32-9 UNIT 184 Unit Letter Section Township Range County C 17 . 31N 9W San Juan Actual Footage Location of Well: feet from the North 1785 line and West feet from the line Ground Level Elev. Producing Formation Dedicated Acreage: 6598 Mesa Verde Blanco Mesa Verde 313.79 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? Unitization If answer is "yes," type of consolidation \_ 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the 17851 best of my knowledge and belief. Drilling Clerk Position El Paso Natural Gas Co. SF-078386 December 12, 1978 Sec 17 I hereby certify that the well location shown on this plat was plotted from field #18 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed -Registered Professional Engineer and/or Land Surveyor ?

2000

1500

1000

330

660

3958 8 FERR.



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

#### Multi-Point Surface Use Plan San Juan 32-9 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 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 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 San Juan 32-9 Unit #18A

I. Location: 800'N, 1785'W, Section 17, T-31-N, R-9-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6598'GR

#### II. Geology:

Α.	Formation Tops:	Surface	San	Jose	Lewis	3645 <b>'</b>
		Ojo Alamo		2105'	Mesa Verde	5155 <b>'</b>
		Kirtland		2230 <b>'</b>	Menefee	5385 <b>'</b>
		Fruitland		3045 <b>'</b>	Point Lookout	5678 <b>'</b>
		Pic.Cliffs		3480 <b>'</b>	Total Depth	6130'

- 3. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5145', 5375', 5665' 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 3845'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

A .	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3845 <b>'</b>	7"	20.0# K-55
		6 1/4"	3695-6130'	4 1/2"	10.5# K-55

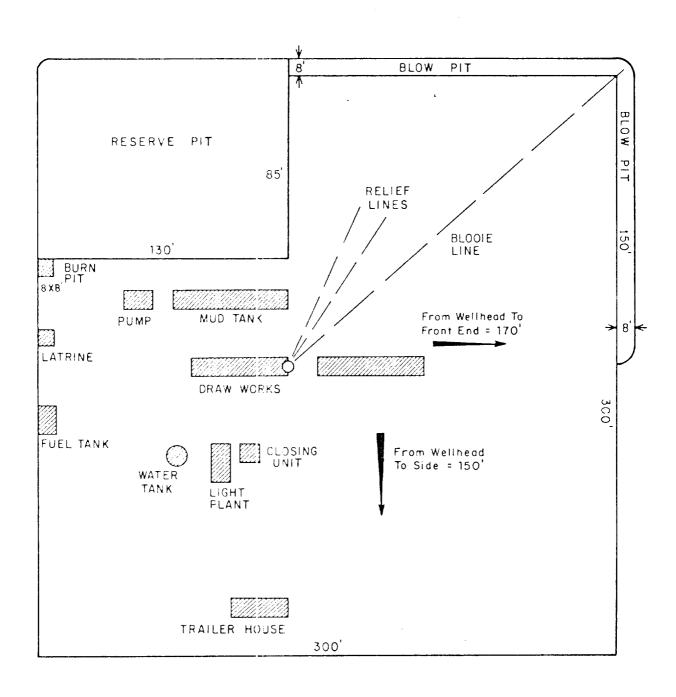
B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

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.

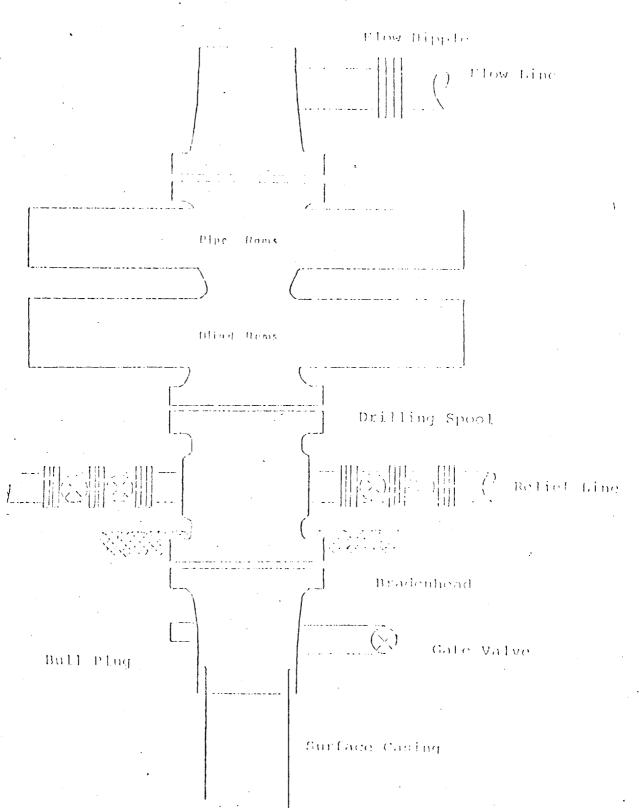
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6130' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead 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 169 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 (392 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 306 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (425 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

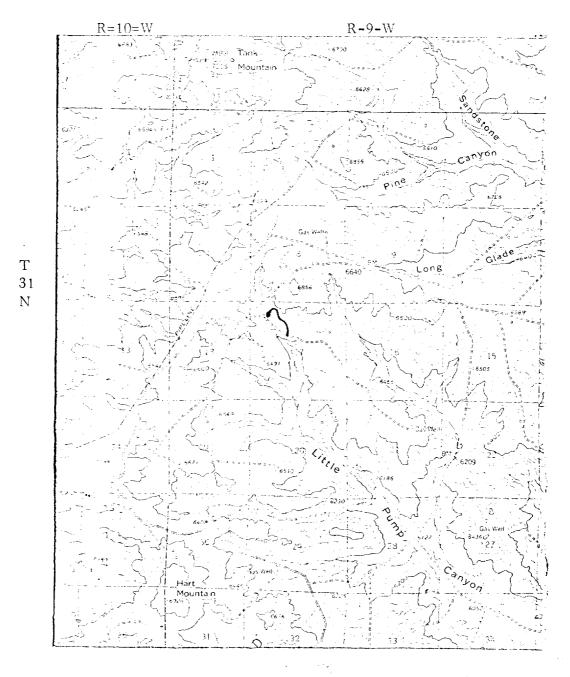


			ENG. REC.	DATE	El Paso Natural Gas Company		
			CHECKED  CHECKED  PROJ. APP.	8-16-78		. LOCATION PLAT OR DAKOTA DRILI	
PRT. SEP. DATE	TO TO	w.o.	DESIGN W.O.		SCALE: 1"=50'	DWG. NO.	REV



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas dilling 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

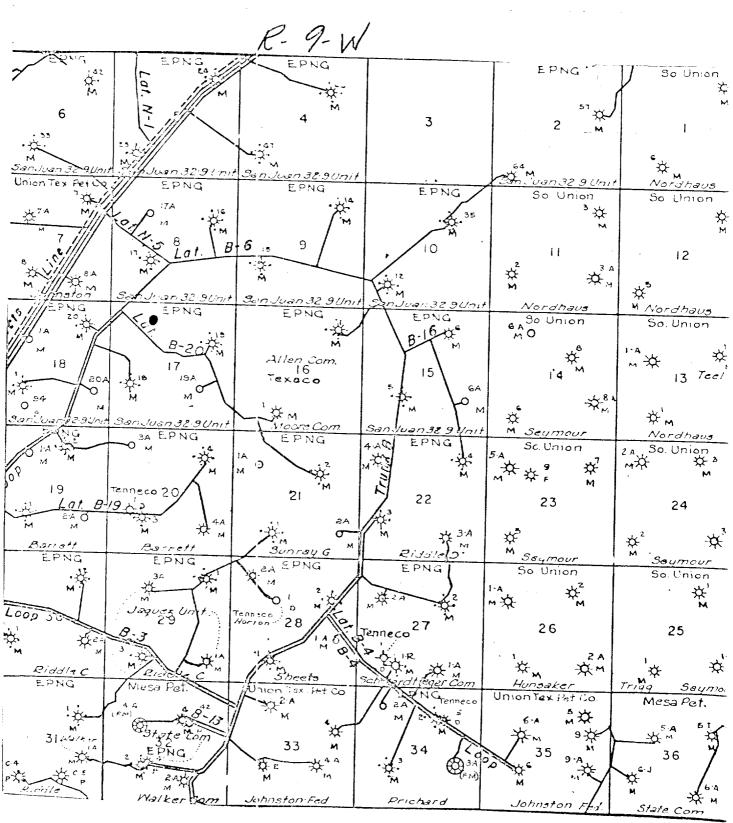
#### EL PASO NATURAL GAS COMPANY San Juan 32-9 Unit #18A NW 17-31-9



MAP #1 LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	+++
EXISTING	ROAD & PIPELIN	E
PROPOSED	ROADS	
PROPOSED	PIPELINES	+++
PROPOSED	ROAD & PIPELIN	E

### EL PASO NATURAL GAS COMPANY San Juan 32-9 Unit #18A NW 17-31-9



Map #2 Proposed Location

131 N