SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

verse side)	30-039-2-7	1428
	,- 	

GEOLOGICAL SURVEY					SF 079393	
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEPEN	N, OR PLUG I	BACK	6. IF INDIAN, ALLOTTED OR TRIBE NAME
a. TYPE OF WORK	ILL 🖺	DEEPEN		PLUG BA	ск 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL						San Juan 27-5 Unit
OIL G	VELL OTHER		SING		PLE	S. FARM OR LEASE NAME
. NAME OF OPERATOR						San Juan 27-5 Unit
	atural Gas Co	mpany				9. WELL NO.
. ADDRESS OF OPERATOR			0.7	RECE	-16	78E /
), Farmington		-		IVE	Basin Daktoa
. LOCATION OF WELL. (F At surface	Report location clearly and 1690'S, 1		th any Sta	* * * * · · ·	•	11. SEC., T., R., M., OR BLK.
	1090 5, 1	420 E		阿科 (1 1.2%	Sec. 5, T-27-N, R-5-W
At proposed prod zon	ne same			U. S. Canan-		NMPM
4 DISTANCE IN MILES	AND DIRECTION FROM NEAD	REST TOWN OR POS	T OFFICE*		ON. N. 15	12. COUNTY OR PARISH 13. STATE
	outh of Gober					Rio Arriba NM
5. DISTANCE FROM I ROP	OSED*			OF ACRES IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE (Also to nearest dri	LINE, FT.		V5410	3-Unit	10 1	HIS WELL = 320.27/
8. DISTANCE FROM PRO	POSED LOCATION®			POSED DEPTH		ARY OR CABLE TOOLS
TO NEAREST WELL, I OR APPLIED FOR, OH TE	DRILLING, COMPLETED, HIS LEASE, FT.	500 '		7938 '	Rota	ry-
	nether DF, RT, GR, etc.)		·		•	22. APPROX. DATE WORK WILL START*
6683 ' GL					· +	
3.	I	PROPOSED CASI	NG AND	CEMENTING PROGR	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH	1	QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.0#	:	200'	224	cu.ft. to circulate
	7"	20.0#		3866'		cu.ft.to cover Ojo A
8 3/4"	1 1 "					
8 3/4" 6 1/4"	4 1/2"	10.5#≪	1	7938' fracture t		cu.ft. to fill to in
6 1/4"	4 1/2"		1			cota formation.
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UNITED STATES
DEPARTMENT OF THE INTERIOR

IL CONSERVATION DIVISIC

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distances o	nust be from the cute	f hounderles fil	the Section	·	
Operator			Lease				Well No.
EL PASO NA	ATURAI, GAS CO	MPANY	SAN	JUAN 27-5	5 UNIT ((SF - 07939)	3) 7 8 - E
Unit Letter	Section	Township	Rang	e	County		,
J	5	27N		5W	Rio	Arriba	
Actual Footage Lo							
1690	feet from the	South	line and 14	50 _{fe}	et from the	East	line
Ground Level Elev		ormation	Pool		et nom the		Dedicated Acreage:
6683	Dakot		Bas	in Dakota			320.27 Acres
							<u> </u>
 Outline t 	he acreage dedic	ated to the su	bject well by co	lored pencil	or hachure	marks on th	ne plat below.
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			-				
X Yes	No If	answer is "yes	," type of consoli	dation	U	nitizati	ion
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	is "no," list the		act descriptions	which have a	ctually be	en consolida	ated. (Use reverse side of
	•		until all interest	s have been	consolidat	ed (by com	munitization, unitization,
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MINGERS COMPANY INC. The Property of the Prop	(Mark
Well Name San Juan 27-5 Unit 78 E	·
Location SES 2)-5	-

Well Name Jan Juan 21-5 Unil 18	<u> </u>
Location SES 2)-5	· .
Formation D/K	
We, the undersigned, have inspected this location	au diwaad
indicated, have inspected this location	and road.
U. S. Forest Service	Date .
Dobrey Foed Archagologist	4/10/20
Archaeologist	Date
Bureau of Indian Affairs Representative	Date , ,
Bus Wand Mary On Office	4/10/80
Bureau of Land Management Representative	Dakel
Barbara J. Contlin	4/10/80
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL.	Date
REASON: Due to topography and less disturb	ance of land
Seed Mixture:	\mathcal{O}
Equipment Color: RROWN	,
Road and Row: (Same) or (Separate)	
Remarks:	
	

C.C. to Dave Vilvin

Earl Mealer

John Ahlm

Operations Plan San Juan 27-5 Unit #78E

I. Location: 1690'S, 1450'E, Section 5, T-27-N, R-5-W, Rio Arriba County, NM

Field: Basin Dakota <u>Elevation:</u> 6683'

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Menefee	5331'
		-	Ojo Alamo	2811'	Point Lookout	5661
			Kirtland	3006'	Gallup	6391'
			Fruitland	3261'	Greenhorn	7598 '
			Pic.Cliffs	3501'	Graneros	7653
			Lewis	3666 '	Dakota	7796
			Mesa Verde	5171'	Total Depth	7938'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5160', 5320', 5650', 6380', 7590', 7645', 7785' 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 3866'Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u> Hole Size</u>	Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4"	3666'	7"	20.0# K-55
	6 1/4"	6500'	4 1/2"	10.5# K-55
	6 1/4"	7938'	4 1/2"	11.6# K-55

- B. Float Equipment: 9 5/8" surface casing Pathfinder Texas Pattern quide shoe (Part No.2006-1-012)
 - 7" intermediate casing Pathfinder guide shoe (Part No. 2003-1-007) and Howco self-fill insert float valve (Price Ref. 36A & 37) 5 Pathfinder stabilizers (Part No. 107-10) one every other joint above shoe. Run float two joints above shoe.
 - 4 1/2" production casing Pathfinder guide shoe (Part.#2003-1-000) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 7938'of 1 1/2", 2.9#, J-55 10rd 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: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.





Multi-Point Surface Use Plan San Juan 27-5 Unit #78E

- 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 27-5 Water Well #1.
- 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.

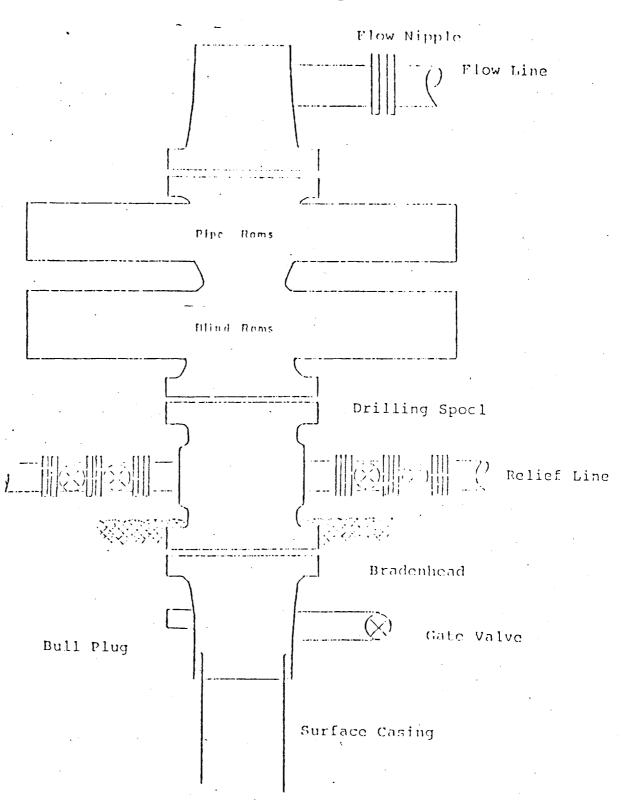
- 8. Ancillary Facilities - No camps or airstrips will be associated with this project.
- Wellsite Layout Please refer to the attached Plat No. 1. 9.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left 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 rocks and rolling hills with sage, pinon, and juniper growing. Deer and 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.

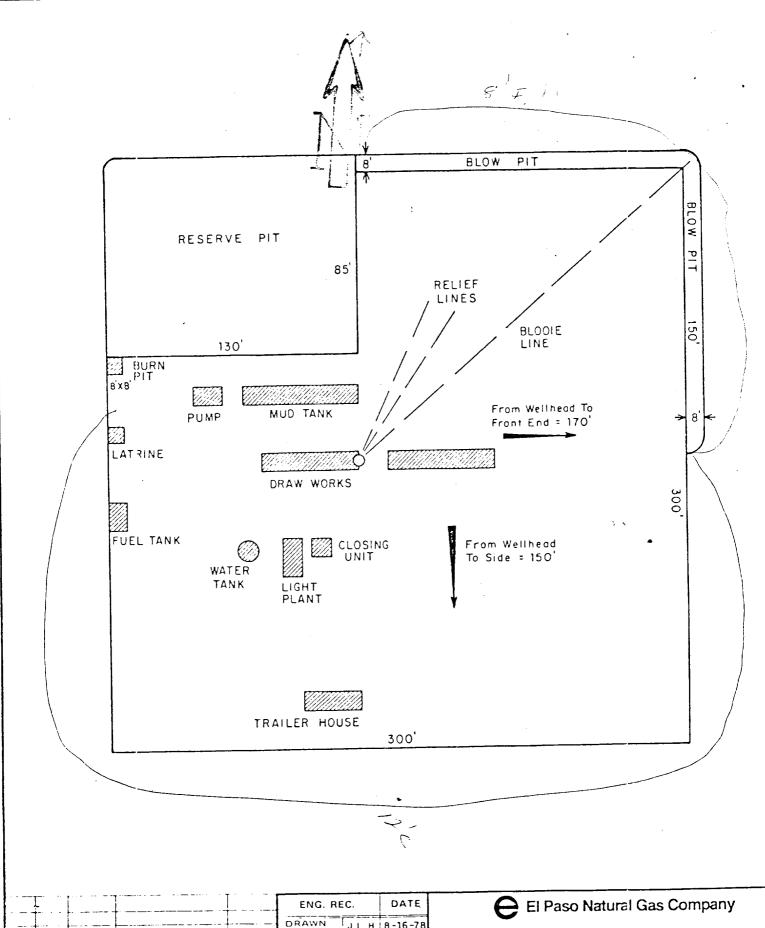
D. R. Read Project Drilling Engineer

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 74sks. 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 (239 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" production casing precede cement with 40 bbls. of gel water (4 sks. gel) cement with 233 sks. of Class "B" with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7, followed by 100 sks. of Class "B" with 1/4# fine tuf-plug per sack and 0.4% HR-7 (627 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.

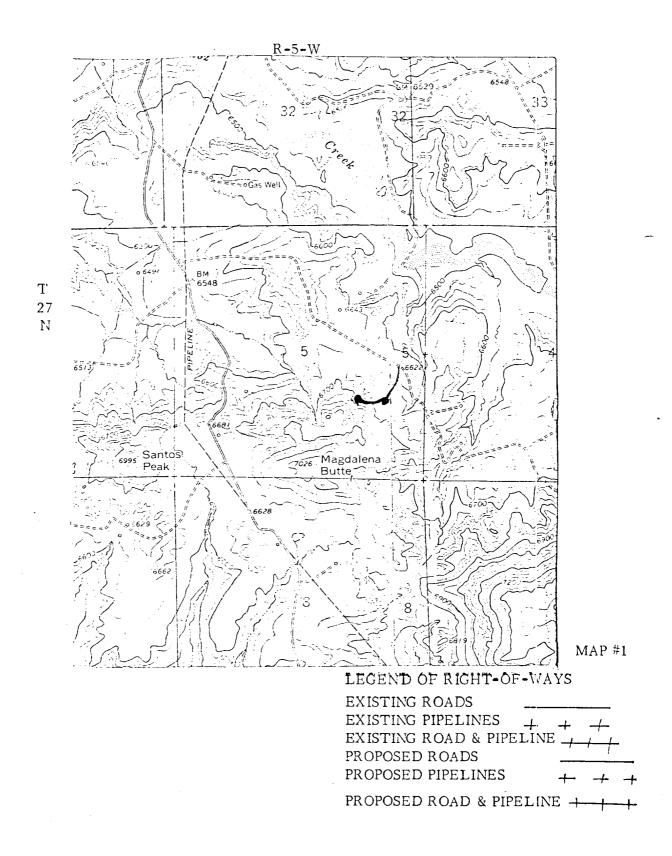


Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



	ENG. REC. DATE	El Paso Natural Gas Company
	ORAWN JLH 8-16-78	TYPICAL LOCATION PLAT FOR
	PROJ. APP	MESAVERDE OR DAKOTA DRILL SITE
PRT. SEP. DATE TO W.	D. DESIGN	SCALE: 1" = 50' DWG.

EL PASO NATRURAL GAS COMPANY San Juan 27-5 Unit #78E SE 5-27-5



EL PASO NATURAL GAS COMPANY San Juan 27-5 Unit #78E

