	30-039-22435-
(Other instructions on reverse side)	Form approved. Budget Bureau No. 42-R1425

	U	NITE	ED S	STATE	ES	
DEPA	RTM	NT	OF	THE	INTE	RIOR

	DEPARTMENT OF THE INTERIOR							5. LEASE DESIGNATION AND SERIAL NO.
		SF 079491						
	4 DDI 16 4 T(O)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
	APPLICATION	Y FOR PERMIT	TO DRILL, I	DEEPEN,	OR PL	UG B	ACK	O. IS INDIAN, ADDOTTER OR TRIBE NAME
	1a. TYPE OF WORK							
	DRI	ILL 🔀	DEEPEN		PLU	G BAC	K 🗌	7. UNIT AGREEMENT NAME
	b. TYPE OF WELL							_ San Juan 27-5 Unit
	WELL G	ELL OTHER		SINGLE ZONE	$\square$	MULTIPL ZONE	E	8. FARM OR LEASE NAME
	2. NAME OF OPERATOR					_		San Juan-27-5 Unit
E1	Paso Natural	Gas Company						9. WELL NO.
	3. ADDRESS OF OPERATOR							105-E
Вох	289, Farmine	gton, New Me	xicc 8740	1.				10. FIELD AND POOL, OR WILDCAT
	4. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wi	th any State 1	equirement	ts.*)		Basin Dakota
$\overline{}$		90' S, 1740'	E					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
+ )	At proposed prod. zon	•	<del>-</del>					Sec 11, T-27-N, R-5-W
	At proposed prod. zon	e						
	14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				N M P M  12. COUNTY OR PARISH   13. STATE
	10 M11es sol	uth of Gobon	ador			<del></del>		Rio Arriba  NM
	LOCATION TO NEAREST			16. No. of				OF ACRES ASSIGNED HIS WELL
	PROPERTY OR LEASE L (Also to nearest drig	INE, FT. g. unit line, if any)	1190'	Unit	1600	.50		<del>\$\frac{1}{320.00}</del>
	18. DISTANCE FROM PROP TO NEAREST WELL, DI			19. PROPOSE	D DEPTH		20. ROTA	RY OR CABLE TOOLS
	OR APPLIED FOR, ON THE	IS LEASE, FT.	2000	8700			I	Rotary
	21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				· · · · · · · · ·		22. APPROX. DATE WORK WILL START*
	7430' GL							
	23.	1	PROPOSED CASH	NG AND CEN	ENTING :	PROGRA	M	
	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DE	РТН		QUANTITY OF CEMENT
	13 4/4"	9 5/8"	32.3#		200'		224 (	Cu. ft. circulated
	8 3/4"	7"	20.0#		4630	[	210 0	cu.ft. to cover Ojo Alan
	6 1/4"	4 1/2"	10.5# &	11.6#	8700 °		630 (	cu. ft. to fill to
	′	,						intermediate

Selectively perforate and sand water fracture the Dakota formation.

A 3000 psi WP and 6000 psi test double gate preventor equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The S/2 of Section 11 is dedicated to this well.

The S/2 of Section 11 is dedicated to this well.

DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. pre 24.

venter program, if any.			· · · · · · · · · · · · · · · · · · ·	ned and tra. Vert	May 30	
SIGNED A. J. SALCED	TITLE	Drilling	Clerk	DATE _		, 1900
(This space for Federal or State office use)						<del></del>
PERMIT NO.		APPROVAL DATE				
				· · · · · · · · · · · · · · · · · · ·		
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE			V Dad	OVED	
ah 3ml	*See Instructions	On Reverse Si	de	6 JUL 1	0 198 <b>0</b>	4
		4		1 DIST	IL. ENGINE	FR

# OIL CONSERVATION DIVISION

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-10? Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Operator		<u> </u>	Lease	e			Well No.
EL PASO NAT	URAL GAS COMP.	A NY	í	SAN JUAN 27-5	INIT (SI	F-079491)	105-E
Unit Letter	Section	Township		Range	County		
O Actual Footage Loc	11	27N		5W	Rio A	rriba	
1190		South line and		1740 feet	( A) - F:	ast	lin a
Ground Level Elev.	Producing For	·	Pool	1140 feet	from the 53		line licated Acreage:
7430	Dakota		I	Basin Dakota			320.00 Acres
	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.						
	an one lease is and royalty).	dedicated to the we	ll, out	line each and ider	ntify the owr	nership there	of (both as to working
		ifferent ownership is unitization, force-pool			nave the inte	erests of all	owners been consoli-
X Yes	No If a	nswer is "yes;" type	of con	solidation	Unit	ization	<u> </u>
LA 199	1.10	, , , , , , , , , , , , , , , , , , , ,					
this form i	f necessary.)	·					l. (Use reverse side of
	_					•	itization, unitization,
•		or until a non-standa AT IS REISSUED T		_		has been app 1-80	proved by the Commis-
sion. M	OIE: INIS FI	MI TO VETOCOLD I	.0 511	ON PIOVED DOCA.			
	1			. 1		C	ERTIFICATION
	1			i			
	3 1			•		•	fy that the information con- is true and complete to the
							owledge and belief.
	İ					D. B	Elses
			. <del></del> -	<del> </del>		Drillir	ng Clerk
	! 			1	F	Postupn Paso	o Natural Gas Co
	 i			1		<sup>∞</sup> •1487¥ 30	, 1980
	1			1	I	Dαte⁻ >	
	 	Sec.	~~~	<del>~~~~~~</del>	AND I		
			****				
X	i i	11					ilfy that the well location
XII	i				JUL 10	- 3	plat was plotted from field
XIX	i			· 1 / <b>\</b> 0/	L COMM	40/1 <b>r</b>	al surveys made by me or
X s	F-079491-A	ii E	SF	-079491	DIS	Moder My supe	ervision, and that the same
X8	i					is five and	correct to the best of my
<b>3</b>	1			Ī		Knowledge and	d belief.
XH	+		- <u>-</u>	<u> </u>			
<b>X</b>	#105	5	Ĭ		IXI.	Date Surveyed	· · · · · · · · · · · · · · · · · · ·
XII	0 "-			i i	M '	Annil 1	1080
<b>M</b>	1		-			Registered Prof	1900 / · · · · · · · · · · · · · · · · · ·
	i	· <b>#</b>	190		6474	and/or Land Sur	
<b>XI</b>	1		4			Lide	THEN ?
() <del>                                     </del>		**************************************	<u> अंदर्भेटर</u>				Kerr Jr.
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	90 1320 1650 196	0 2310 2640 200	244444	1500 1000 5		Certificate Na.\	1000 M. 1



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

### Multi-Point Surface Use Plan San Juan 27-5 Unit #105E

- 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.
- 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 with pinon, sage and juniper growing. Deer, cattle and elk 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. R. Read

Project Drilling Engineer

# Operations Plan San Juan 27-5 Unit #105-E

I. Location: 1190' S, 1710' E, Section 11, T-27-N, R-5-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 7430

### II. Geology:

Α.	Formation To	ps:	Surface	San Jose	Menefee	6080'
			Ojo Alamo	3700 <b>'</b>	Point Lookout	6435'
			Kirtland	3815'	Gallup	7425'
			Fruitland	4100'	Greenhorn	8371'
			Pic.Cliffs	4284'	Graneros	8430'
			Lewis	4430'	Dakota	8577 <b>'</b>
			Mesa Verde	5965 <b>'</b>	Total Depth	8700 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5955', 6070', 6425', 7415', 8360', 8420', 8565', 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 4630'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"	4630'	7 " ·	20.0# K-55
	6 1/4"	6500 <b>'</b>	4 1/2"	10.5# K-55
	6 1/4"	1500'	4 1/2"	11.6# K-55
	6 1/4"	700	4 1/2"	11.6# N-80

B. Float Equipment: 9 5/8" surface casing - Pathfinder Texas Pattern guide 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.

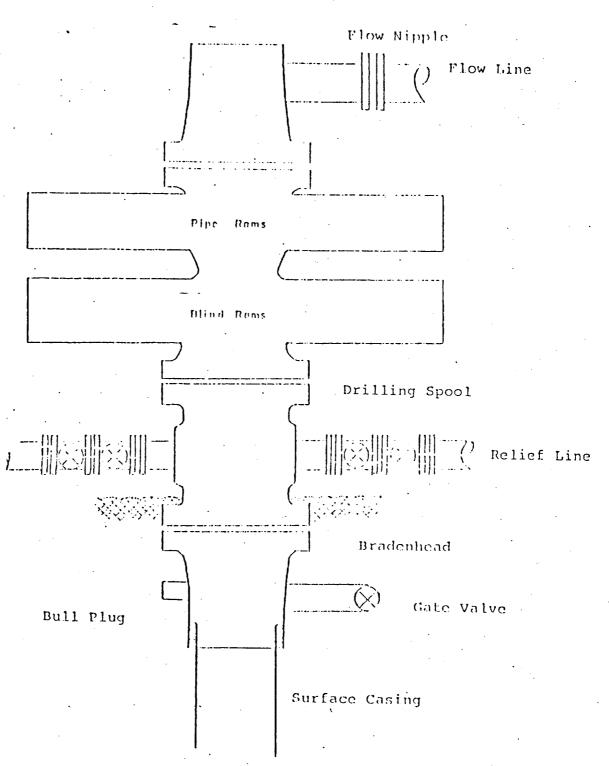
- 4 1/2" production casing Pathfinder guide shoe (Part.#2003-1-000) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 8700'of 1 1/2", 2.9#, J-55 10rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

### V. Cementing:

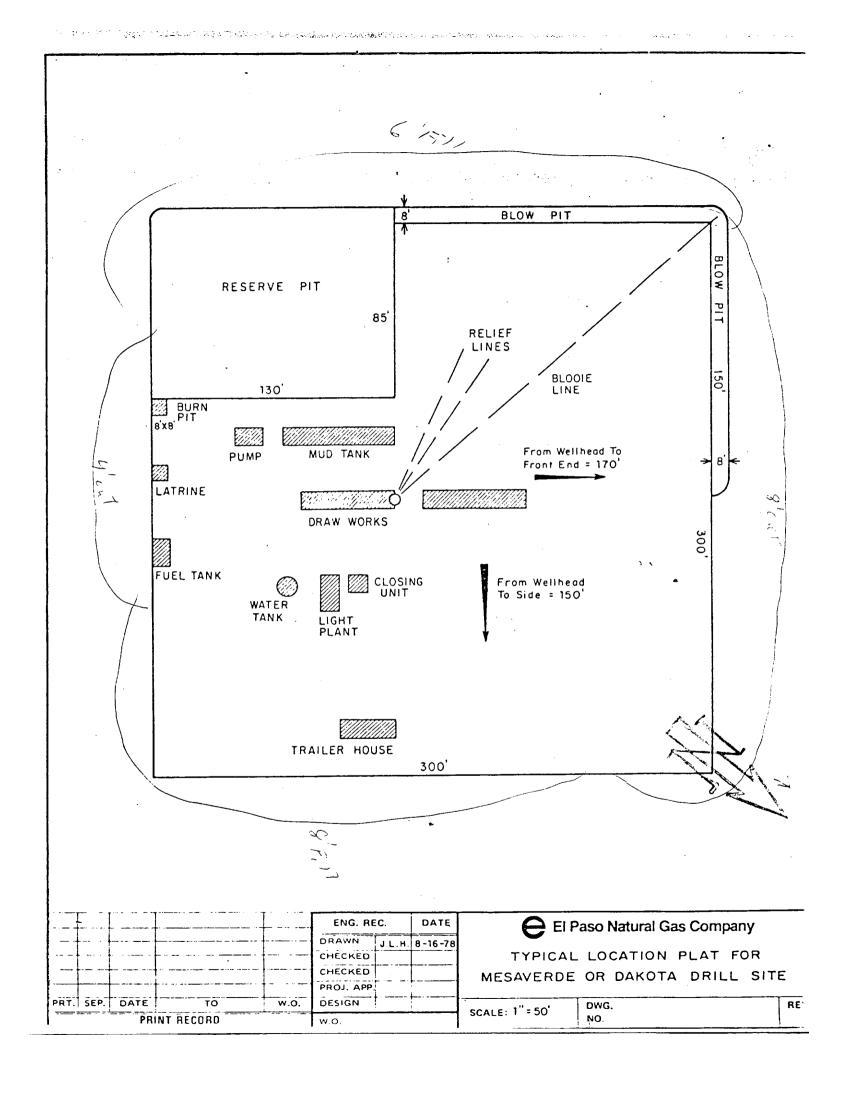
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 57sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (210cu.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 235 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 (630cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.

36N (11905) (1740 E) mond	31 met
36N (1) 403 (1740 E) men	
EIPEED COMPANY	P.O. posenie FARMORIOSE, HESPANISCO (2004)
Mastr don USGs	PHONE, 965 US 2043
. U Ka	
Well Name 5, J, 27-5 Unit# 105	=
Location $SEII$ 27-5	
Formation	·
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	Date
Archaeologist Ford	4110/20
Archaeologist	Date
Bureau of Indian Affairs Representative  Bureau of Land Management Representative	Date // // // // // // // // // // // // //
	Date
U. S. Geological Survey Representative - AGREES	4/10/80 Date
TO THE FOOTAGE LOCATION OF THIS WELL. REASON: Too Close to lodge of ridge - loss across road	
Seed Mixture:	
Equipment Color: GRIDW	
Road and Row: (Same) or (Separate)	
Remarks:	

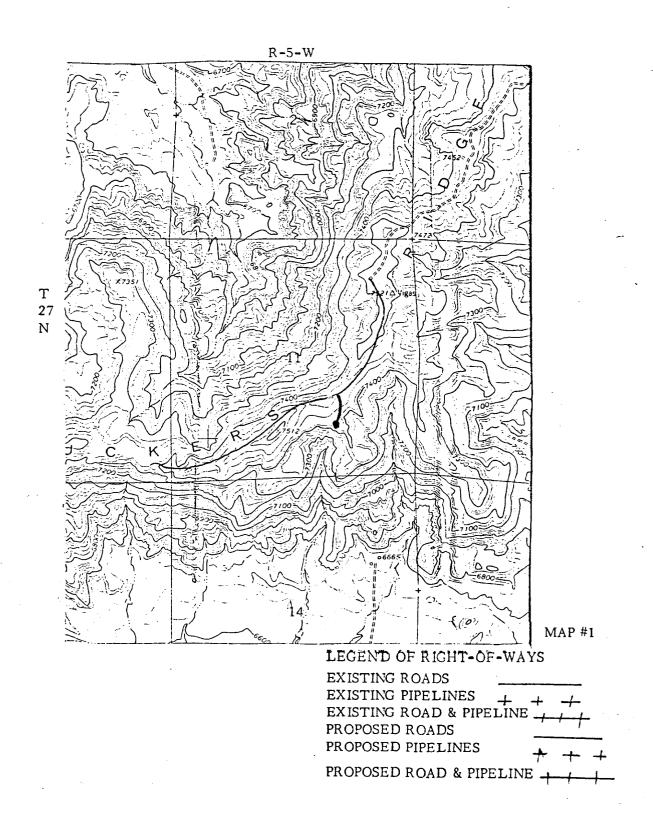
C.C. to Dave Vilvin
Earl Mealer
John Ahlm



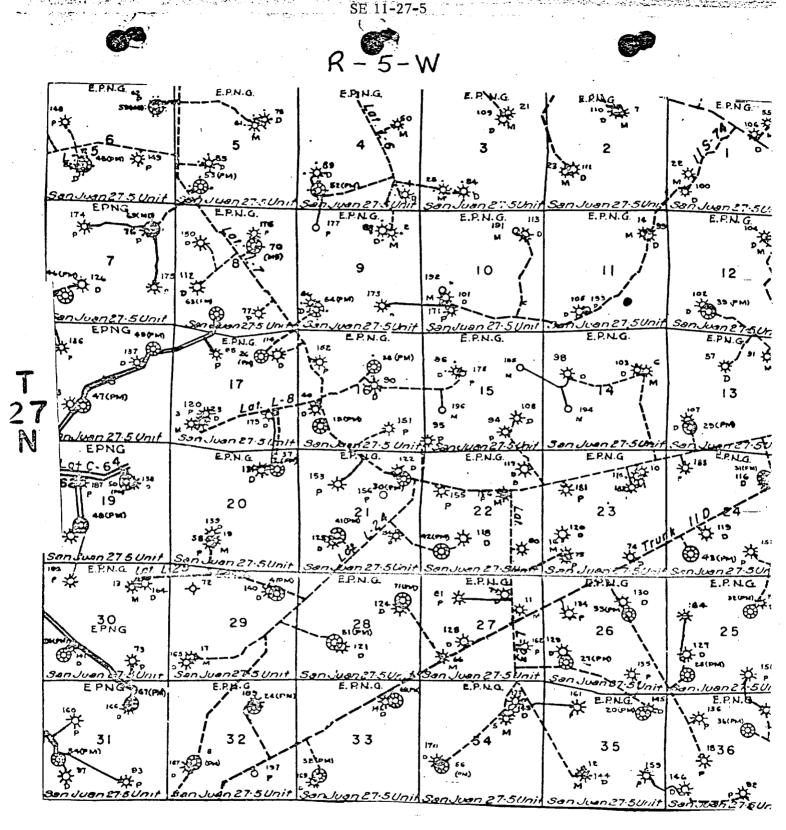
Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



## EL PASO NATURAL GAS COMPANY San Juan 27-5 Unit #105E SE 11-27-5



## EL PASO NATURAL GAS COMPANY San Juan 27-5 Unit #105E



MAP # 2