#### SUBMIT IN TRIPLICATE\* ,

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

buttons on side)

SO-035-2/408

5. LEASE DESIGNATION AND SERIAL NO.

SF 078503

UNITED STATES				
DEPARTMENT	OF	THE	INTERIOR	

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL	, DEEPEN, OR PLU	JG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
DRILL [1] DEEPEN	N [] PLUG	BACK []	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL			San Juan 29-7 Unit	
OIL GAS WELL OTHER		MULTIPLE ZONE	8. FARM OR LEASE NAME	
2. NAME OF OPERATOR			San Juan 29-7 Unit	
El Paso Natural Gas Company			9. WELL NO.	
PO Box 990, Farmington, NM 8	7401		112	
4. LOCATION OF WELL (Report location clearly and in accordance			10. FIELD AND POOL, OR WILDCAT  Basin Dakota	
At surface M 1150'S, 800'W	with any state requirements	.•)	i	
/-1 1130 B, 000 W			11. SEC., T., R., M., OR BLK.  AND SURVEY OR AREA  Sec. 29, T-29-N, R-7-W	
At proposed prod. zone			Sec. 29, T-29-N, R-/-W	
4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR	POST OFFICE*		12. COUNTY OR PARISH   13. STATE	
			Rio Arriba NM	
15. DISTANCE FROM PROPOSED*	16. NO. OF ACRES IN LE.	ASE   17. NO.	OF ACRES ASSAGNED	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.			320.00	
(Also to nearest drlg, unit line, if any) 8. DISTANCE FROM PROPOSED LOCATION*	19. РЕОРОВЕВ ВЕРТИ	90 000	TARY OR CARLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	7570	Rota		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START*	
6326'GR			22 MINAN MATERIAL WILLIAM	
3. ppopogra de	SING AND CEMENTING P	DOCED * 25		
PROPOSED CA	SING AND CEMENTING P	ROGRAM		
SIZE OF HOLE SIZE OF CASING WEIGHT PF	R FOOT SETTING DEPT	111	QUANTITY OF CEMENT	
13 3/4" 9 5/8" 32.3#	200'		cu.ft.to circulate	
8 3/4" 7" 20.0#	3265'	285_	cu.ft.to cover Ojo Al	
6 1/4"   4 1/2"   10.5#	-11.6 <b>‡</b> 7570'	662	cu.ft.to fill to inte	
,	,	'	casing	
Cologtively perferate and are	A 6	(1)		
Selectively perforate and san	uwater fractur	e the Dak	tota formation.	
A 3000 psi WP and 6000 psi te	st double date	prevente	er equipped with	
blind and pipe rams will be u	sed for blow o	ut prever	ation on this well.	
		P	.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o	
The gas is dedicated.				
- Andrewson			No.	
The $W/2$ of Section 29 is dedi-	cated to this r	we <b>/</b> ]		
		1 2 3	31911	
		MAY :	$C_{OM}$ .	
8 ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to o	leepen or plug back, give dat	a on present po	inclive ane any proposed new productive	
one If proposal is to drill or deepen directionally, give pertireventer program, if any.	ient data on subsurtace locat	ions and deasure	deputs true vertical depths. Give blowout	
4.				
Man Stadlings	Drilling	Clork	рать <u>May 11, 1977</u>	
Silve Jugge Surveyura	TITLE DITITING	CIEIV	DATE MAY 11, 1977	
(This space for Federal or State office use)				
PERMIT NO.	APPROVA . HATE			
	or novaring			
APPROVED BY	TITLE		DATE	
CONDITIONS OF APPROVAL, IF ANY:				
No.	1.1			
UVA	×1			

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

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

All distances must be from the outer boundaries of the Section Operator Well No. EL PASO NATURAL GAS COMPANY (SF-078503) SAN JUAN 29-7 UNIT 112 Unit Letter Section Township 29 29-N 7-W RIO ARRIBA M ... Actual Footage Location of Well: 800 1150 SOUTH WEST feet from the line and leet from the line Ground Level Elev. Producing Formation Dedicated Acresige: 6326 BASIN DAKOTA DAKOTA 320.00 Acres 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? If answer is "yes," type of consolidation \_ ☐ No 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 SF-078503 Position Company 13. MN 29 SECT I hereby certify that the well location shown on this plat was plotted from field 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. 800 Date Surveyed MAY 4, 1977 Registered Professional Engineer Certificate No.

1000

330

660

1650

1980

2310

2640

2000

1500

500



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

#### Multi-Point Surface Use Plan San Juan 29-7 Unit #112

- 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 at Manzaneras Mesa, Section 9, T-29-N, R-8-W.
- 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 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 green (Federal Standard #595-34127)
- 11. Other Information The terrain is rolling hills and sandstone ledges covered with cedar and pinon trees. Cattle occasionally graze 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.

May 11, 1977

L. A. Aimes

Sr. Drilling Engineer

LAA: pb

# Operations Plan San Juan 29-7 Unit #112

I. Location: SW/4 Section 29, T-29-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 6326 GL

### II. <u>Geology:</u>

Α.	Formation Tops:	Ojo Alamo	2000'	Point Lookout	5168'
		Kirtland		Gallup	6298'
		Fruitland	2698 <b>'</b>	Greenhorn	7195'
		Pic.Cliffs	2988'	Graneros	7260'
		Lewis	3065'	Dakota	7380'
		Mesa Verde	4633'	Total Depth	7570 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4745', 5168', 6298', 7380' 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 3265'. Gas from intermediate casing to Total Depth.

### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		13 3/4" 8 3/4" 6 1/4" 6 1/4"	200' 3265' 6500' 7570'	9 5/8" 7" 4 1/2" 4 1/2"	32.3# H-40 20.0# K-55 10.5# K-55 11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5~B&W stabilizers every other joint above shoe. Run float two joints above shoe.

- 4 1/2" production casing cement guide shoe and float collar
- C. Tubing: 7570' 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: 3000 psi test tree.

Operations Plan - San Juan 29-7 Unit #112, cont'd.

## V. <u>Cementing:</u>

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.

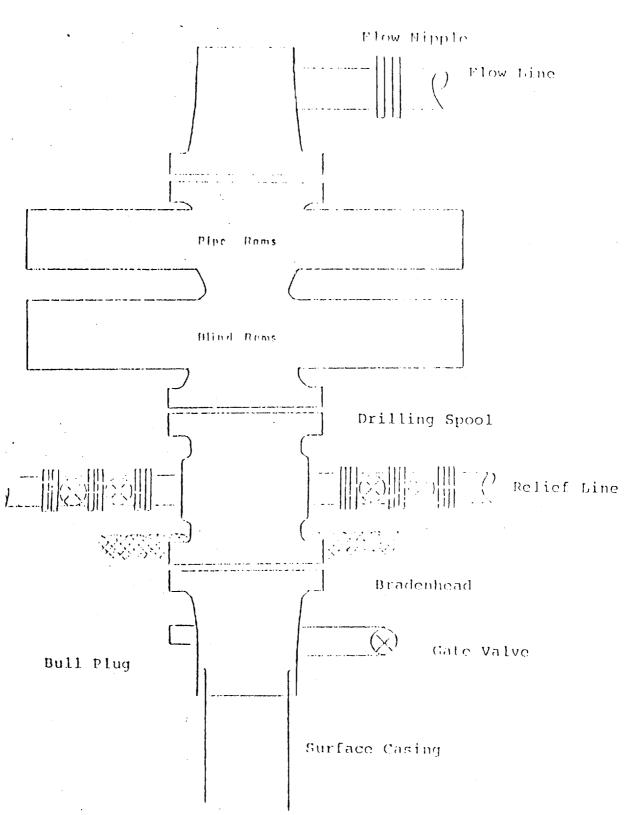
7" intermediate casing - use 64 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 70 sks. of Class "B" with 2% calcium chloride (285 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" production casing - precede cement with 40 bbls. of gel water (4 sks. gel). Cement with 242 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 (662 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.

LAA: pb

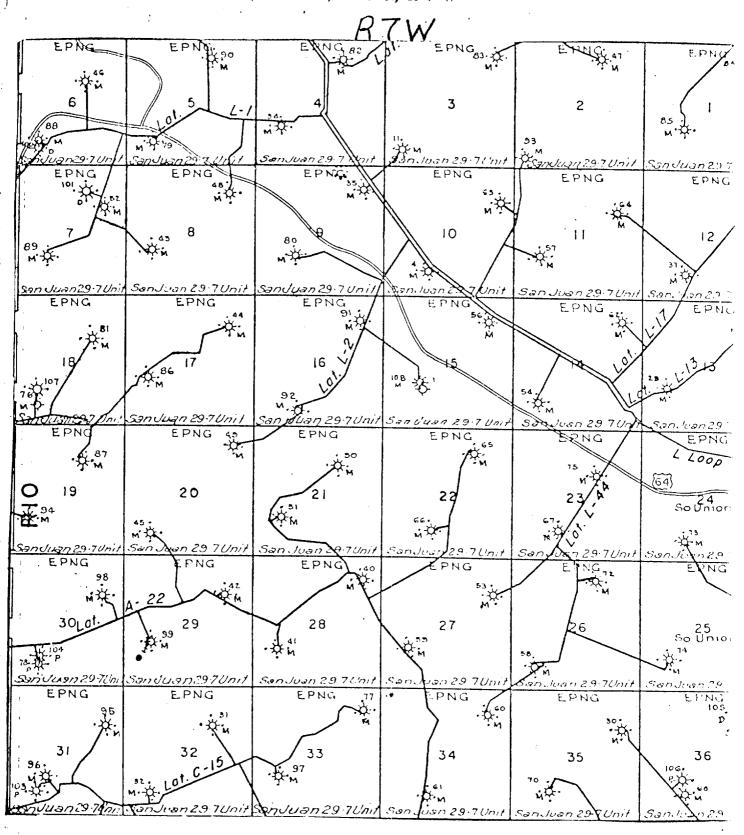
Wells from wellhoard to from end = 170° From wellhood to Side = 130 El Poso Natural 603 Compara Typical tocation 1924 for Mesa Vende and Ward Edo 5# 336. 75, Every [ Draw Works Mud Tunk Rusprur 1361 2011 / Jung BXS,

000



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 NATUR/1. GAS COMPANY San Juan 29-7 Unit #112 SW/4 Sec. 29, T-29-N, R-7-W



MAP #2 Proposed Location

29 N  $(\cdot)$