SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

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DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.		
	GEOLO	GICAL SURV	EY			SF 078945	
APPLICATION	N FOR PERMIT	TO DRILL,	DEEPE	V, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK DRI	LL 🛛	DEEPEN		PLUG BA	.CK 🗌	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL WELL W	AS X OTHER		SING	SLE X MULTI	PLE	San Juan 29-7 Unit 8. FARM OR LEASE NAME	
2. NAME OF OPERATOR						San Juan 29-7 Unit	
	tural Gas Cor	mpany				9. WELL NO.	
3. ADDRESS OF OPERATOR						1113	
PO Box 990	, Farmington	, NM 874				10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (R. At surface			th any Sta	te requirements.*)		Basin Dakota	
5	945'N, 230	00 ' E				11. SEC., T., B., M., OR BLK.	
At proposed prod. zon	e					Sec. 29, T-29-N, R-7-W	
14. DISTANCE IN MILES	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*			12. COUNTY OR PARISH 13. STATE	
25 miles Ea	ast of Blanco	O, NM				Rio Arriba NM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)		340'	16. NO. OF ACRES IN LEASE 1		17. NO. 0	7. NO. OF ACRES ASSIGNED TO THIS WELL 320.00	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		3000' 19. PROPOSED DEPTH 7610'			20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*	
23.	1	PROPOSED CASI	NG AND	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00 T	SETTING DEPTH	QUANTITY OF CEMENT		
13 3/4"	9 5/8"	32.3#		200'	224	cu.ft. to circulate	
8 3/4"	7"	20.0#		3400'		cu.ft.to cover Ojo Ala	
6 1/4"	4 1/2"	10.5#&	11.6#	7610 '		cu.ft.to fill to 3400'	
Selectively	perforate a	and sandwa	ater :	fracture th	e Dako	ota formation.	
A 3000 psi blind and g	WP and 6000 pipe rams wil	psi test ll be used	doub d for	le gate pre blow out p	venter revent	equipped with tion on this well.	
This gas is	dedicated.					CIN	

UNITED STATES

zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. LECO Drilling Clerk (This space for Federal or State office use) PERMIT NO. APPROVED BY JUL 2 1 1978 CONDITIONS OF APPROVAL, IF ANY:

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

The N/2 of Section 29 is dedicated to this well.

U. S. GEOLOGICAL SURVEY DUMMING, COLO.

productive

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 <u>SAN JUAN 23-7 UNIT (SF-078945</u> 113 Unit Letter Section Township Range County 29 29N <u>Rio Arriba</u> Actual Footage Location of Well: 945 feet from the North line and East Ground Level Elev. Producing Formation Dedicated Acreage: 6376 Dakota <u>BASIN DAKOTA</u> 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? X Yes Unitization No 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. NOTE: THIS PLAT IS REISSUED TO SHOW MOVED LOCATION AND CHANGE IN DEDICATION. 6-15-78 CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of mysknowledge and belief. 2300**'** HICES Drilling Clerk SF-078503 SF-078945 Position El Paso Natural Gas Co. Company July 19, 1978 I hereby certify that the well location shown on this plat was platted 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. DIST. 3 1320 2000 1500 1000

E Paso NATURAL GAS COMPANY

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

Multi-Point Surface Use Plan San Juan 29-7 Unit #113

- 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.
- Location of Tank Batteries, Production Facilities, and Production 4. 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.
- Location and Type of Water Supply Water for the proposed project 5. will be obtained from Manzaneras Mesa Water Well #1
- Source of Construction Materials No additional materials will be 6. required to build either the access road or the proposed location.
- 7.

DIST. 3

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.
- 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 29-7 Unit #113

I. Location: 945'N, 2300'E, Section 29, T-29-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota <u>Elevation:</u> 6376'GR

II. Geology:

A.	Formation Tops:	Surface	San Jose	Menefee	4191'
		Ojo Alamo	2159'	Point Lookout	5294'
		Kirtland	2332'	Gallup	6330 '
		Fruitland	2819'	Greenhorn	7279 '
		Pic.Cliffs	3114'	Graneros	7330 '
		Lewis	3199'	Dakota	7497'
		Mesa Verde	4747'	Total Depth	7610'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5294', 6330', 7330', 7497' 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 3400'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	<u>Hole Size</u>	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3400 '	7"	20.0# K-55
		6 1/4"	6500 '	4 1/2"	10.5# K-55
		6 1/4"	7610 '	4 1/2"	11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part No. 2006-1-012).

7" intermediate casing - Pathfinder guide shoe (Part No. 1003-1-007) and Pathfinder self-fill insert float valve (Part No. 2010-6-007), 5 Pathfinder stabilizers (Part No. 107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" production casing Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 7610' 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 tepresentative to set all slips and cut off casing.

JUL 24 1978 OIL CON. COM. DIST. 3

Operations Plan - San Juan 29-7 Unit #113

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.

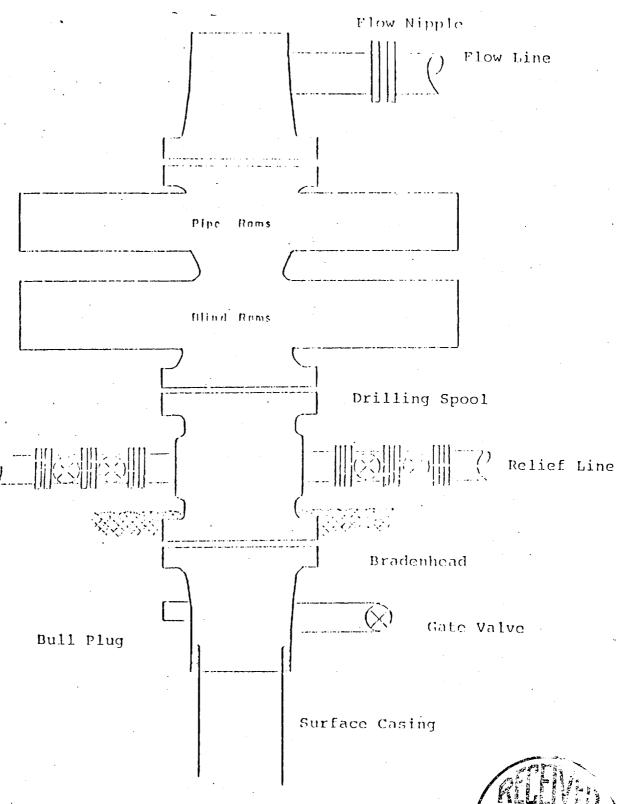
7" intermediate casing - use 122 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (280 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" production casing - precede cement with 40 bbls. of gel water (4 sks. gel) cement with 252 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 (648 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.



Fill Sft from wellhosel to from cut 6 ft 75. English | 1404 Drive Heries mad 100 At to

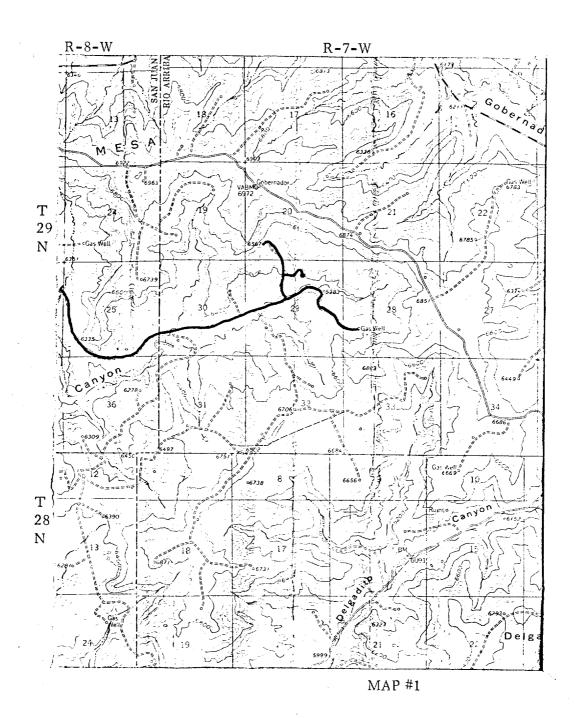
These Maint Consult 643 Company



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 29-7 Unit #113 NE 29-29-7



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	-+ + -+
EXISTING	ROAD & PIPELIN	E-1-+
PROPOSED	RCADS	
# * · · · · · · · · · · · · · · · · · ·	PIPELINES	+ + +
PROPOSED	ROAD & PIPELIN	压 / · / · /

EL PASO NATURAL GAS COMPANY San Juan 29-7 Unit #113 NE 29-29-7 EPNG 3 2 6 EPNG EPNG 10 11 12 16 108 \$ T 29 N EPNO EPNG EPNG EPNG ERNG 87 [64] 19 20 So Union NG 72 EPNG EPNO FNG PNG 98 53. 25 So Union 28 27 29 99 Juan 29-7Unit <u> รอกปนสก29:70กเว</u> San Juan 29 7 Unit an 29 7Uni SanJuan 29. EPNG 105 EPNG EPNG EPNG EPNG .77 PNG 36 31 33 32 34 35 **MAP #2** JUL 24 1978 OIL COM COM. Proposed Location DIST. 3