SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

DISTRIC. ENGINEER

(Other instructions on reverse side) UNITED STATES
DEPARTMENT OF THE INTERIOR

30-039-22362

GEOLOGICAL SURVEY					5. LEASE DESIGNATION AND SERIAL NO. SF 078417		
APPLICATION	FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
a. Type of work					7		
b. TYPE OF WELL	LL 🖺	DEEPEN 🗌	PLUG BA	CK ∐	7. UNIT AGREEMENT NAME San Juan 28-7 Unit		
OIL GA	AS X OTHER		SINGLE X MULTIZONE	PLE	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR					San Juan 28-7 Unit		
EL Paso Na	tural Gas Co	mpany			9. WELL NO.		
	, Farmington	, NM 87401					
LOCATION OF WELL (Re	eport location clearly and	in accordance with an	State requirements.*)		AO. FIELD AND POOL, OR WILDCAT Basin Dakota		
At surface	1030'N, 9		HINA	-	11. SEC., T., R., M., OR BLK		
At proposed prod. zone	e same		u. n. ogninerte		Sec.17,T-28-N,R-7-W		
4. DISTANCE IN MILES A			ICE®		12. COUNTY OR PARISH 13. STATE		
	uthof Navaj	o City, NM			Rio Arriba NM		
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE LI			NO. OF ACRES IN LEASE		F ACRES ASSIGNED HIS WELL		
(Also to nearest drig	. unit line, if any)	930'	unit		\sim 320.00		
8. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON THE	HLLING, COMPLETED.	2640 1 19.	PROPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS		
21. ELEVATIONS (Show when			7700	Mocas			
6645'GL				-	22. APPROX. DATE WORK WILL START*		
3.	-	PROPOSED CASING A	ND CEMENTING PROGR.	Δ M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT					
13 3/4"	9 5/8"	36.0#	SETTING DEPTH	224	Cu.ft. to circulate		
8 3/4"	7"	20.0#	3616'		cu.ft.to cover Ojo Al		
6 1/4"	4 1/2"	10.5#&11.6			cu.ft. to fill to inte		
A 3000 psi	WP and 6000	psi test do	uble gate pre	eventei	ota formation.		
blind and p	pipe rams wil	ll be used f	or blow out p	revent	cion on this well.		
The W/2 of	Section 17		to this well		MÂY 23 1980 L CON. COM.		
one. If proposal is to d reventer program, if any.	rill or deepen directiona	lly, give pertinent data	on subsurface locations ar	nd measure	activity and proposed new productive and true vertical dentils. Give blowout		
signed South	y Sudf	A TITLE _	Drilling	Clerk	DATE 4-22-80		
(This space for Federa	al or State office use)						
PERMIT NO.	·		APPROVAL DATE	· ·			
APPROVED BYCONDITIONS OF APPROVA	L, IF ANY:	TITLE			APPROVED		
Million Committee and a					MAY 21 1980		
BASATTA ALLESTA Puppa in the inches	A Danie A. A. A. G. (ED.)	*c- 1 - NM	CC a.	ļ	Gros Jah		
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of Ful

All distances must be from the cuter houndaries of the Section

Cycrator				Le	ase					Well No.
EL PASO NATURAL CAS COMPANY				SAN JUAN 28-7 UNIT (SF-078417) 239-E			239 - E			
Unit Letter	er Section Township			Range County						
D	17		28N		7W		Rio Arriba			
Actual Footage Location of Well:										
1030 Ground Level Elev.	feet from		North	line and	930	feet	from the	West		line
6645		oducing Fon Dakot		Po	Basin B	Dakota				ted Acreage:
	1			1			, ,		1.	Acres
1. Outline the	e acreas	ge dedical	ted to the su	bject well	by colored	pencil of	hachure	marks on th	e 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).										
Interest Li		., , , -								
If more that	n one le	ease of di	ifferent owner	ship is ded	icated to	the well, h	nave the	interests of	all ov	vners been consoli-
dated by co	ommunit	ization, u	nitization, for	ce-pooling.	etc?					·
X Yes	□ No	16		"	1: 3:	Uni	tizati	.on		
T res		11 An	iswer is "yes	, type of c	onsomaan	on		· · · · · · · · · · · · · · · · · · ·		
If answer i	s "no,"	list the	owners and tr	act descrip	tions whic	h have ac	tually be	en consolida	ated. (1	Use reverse side of
this form if	_		·	*		 				····
										zation, unitization,
	ing, or o	therwise)	or until a non	-standard u	nit, elimin	ating such	n interest	s, has been	appro	ved by the Commis-
sion.	~ ~	~ ~ ~	~ ~ ~ ~ ~							
	/ / /	<u> </u>	XXX		ı				CERT	IFICATION
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. EIPEED NATURAL GAS

P. O. Berkelee FARMINGIO (1) MESTAN (1) CONTINU PHONE (1991) CHEDIAN

Well Name 5.5. 23 28-7 Unit# 239 1	2
Location NW17 28-7	
Formation D/	
We, the undersigned, have inspected this location	n and road
U. S. Forest Service	Date
Dabley Fred	3/25/80 Date
Archaeologist	Date
Bureau of Indian Affairs Representative	Date
Bat Bat Commen	3/25//2
Bureau of Land Management Representative	Date
Barbara L. Con Alin	(3)-
J. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL.	Date
REASON:	
Seed Mixture:	
Equipment Color: Brian	
Road and Row: (Same) or (Separate)	
Remarks:	
	•

C.C. to Dave Vilvin

Earl Mealer

John Ahlm



Multi-Point Surface Use Plan San Juan 28-7 Unit #239E

- 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.
- 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 Manzaneras Mesa 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 ridge bench flat with pinon, juniper rabbit brush growing. Cattle 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 28-7 Unit #239E

I. Location: 1030'N, 930'W, Section 17, T-28-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 6645'

II. Geology:

A. Formation Tops:	Ojo Alamo Kirtland Fruitland Pic.Cliffs		Menefee Point Lookout Gallup Greenhorn Graneros	5000' 5479' 6590' 7440' 7495'
	Lewis Mesa Verde	3416'	Dakota Total Depth	7634 ' 7780 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4890', 4990', 5470', 6580', 7430', 7485', 7625' 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 3616'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	gram: Hole Size	Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4"	3616'	7"	20.0# K-55
	6 1/4"	6500'	4 1/2"	10.5# K-55
	6 1/4"	7780'	4 1/2"	11.6# K-55

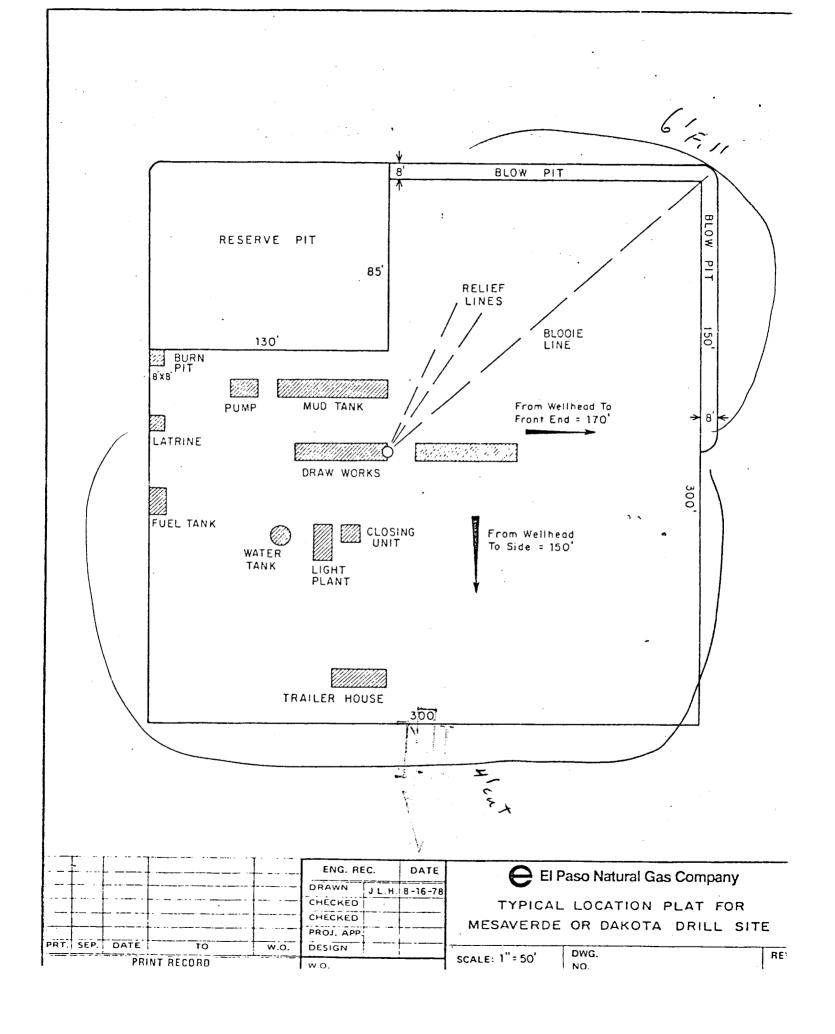
B. Float Equipment: 9 5/8" surface casing - Pathfinder Texas Pattern
guide shoe (Part No.2006-1-012)

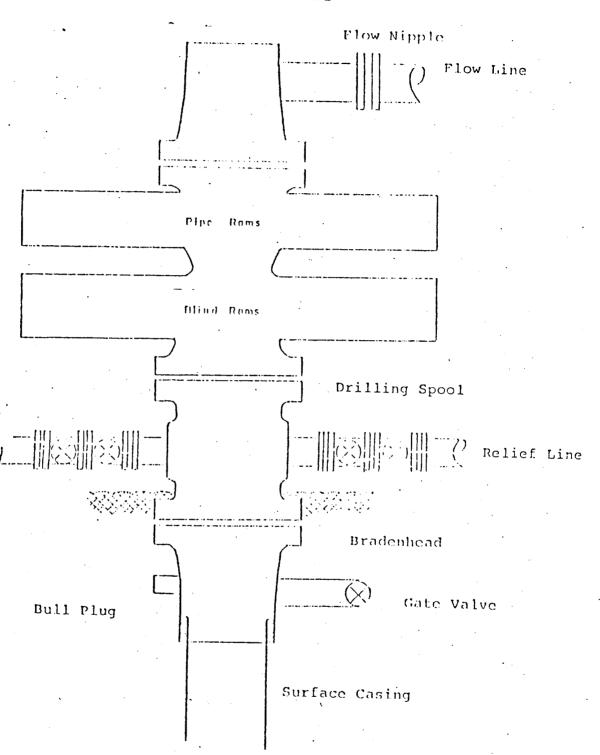
7" intermediate casing - Pathfinder guide shoe (Part No. 2003-1-007) and Howco self-fill insert float valve (Price Ref. 36A & 37) 5 Pathfinder stabilizers (Part No. 107-10) one every other joint above shoe. Run float two joints above shoe.

- 4 1/2" production casing Pathfinder guide shoe (Part.#2003-1-000) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 7780' 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:

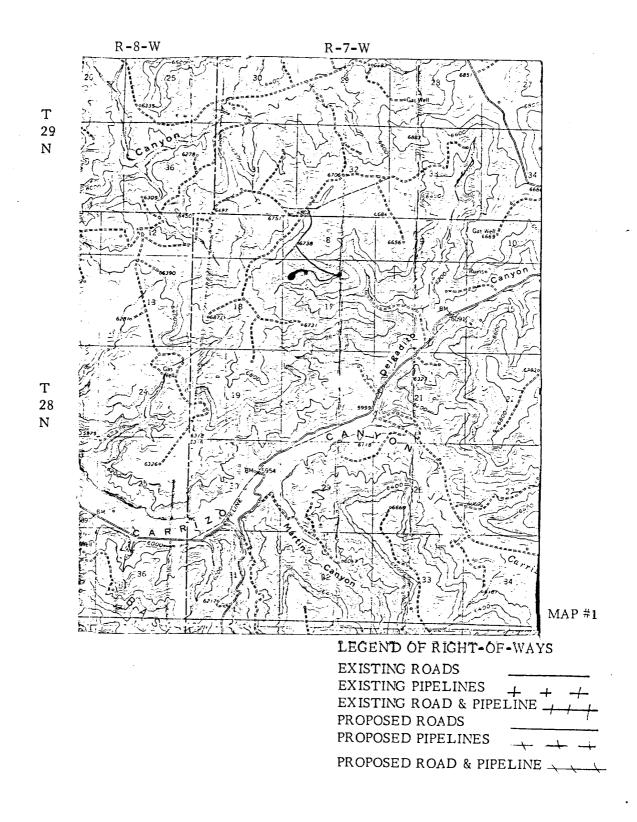
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 94 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (270 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 236 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 (640 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.



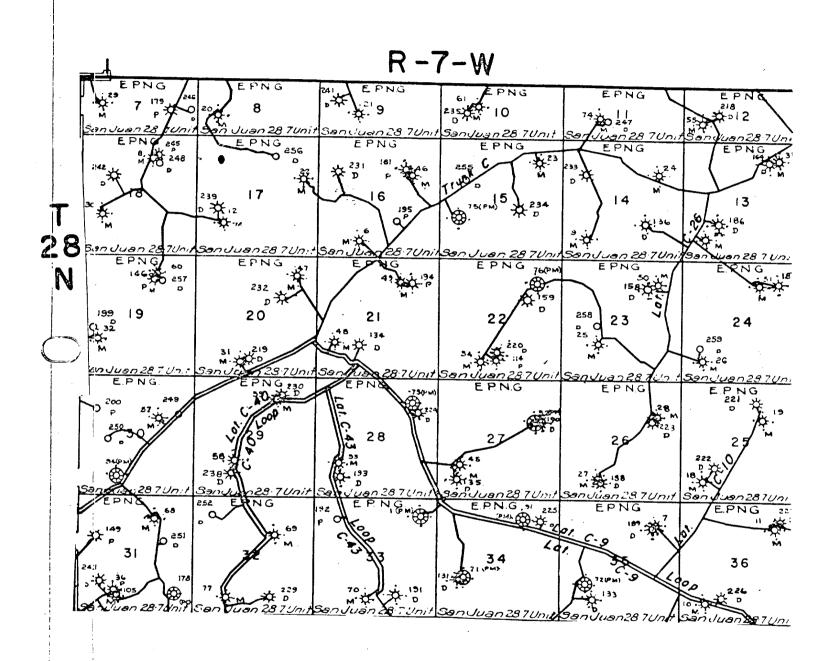


Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

EL PASO NATURAL GAS COMPANY San Juan 28-7 Unit #239E NW 17-28-7



EL PASO NATURAL GAS COMPANY San Juan 28-7 Unit #239E NW 17-28-7



MAP #2 Proposed Location •