#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

**UNITED STATES** 

30-039-21918

		OF THE INT	ERIUR		5. LEASE DESIGNATION AND SERIAL NO.
	SF 078945				
APPLICATION	N FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	ILL 🖺	DEEPEN 🗌	PLUG BA	ACK 🗌	7. UNIT AGREEMENT NAME
b. Type of well	AS G		SINGLE MULT	IDIE C	San Juan 29-7 Unit
WELL W	AS OTHER		ZONE Z ZONE	"" L.	8. FARM OR LEASE NAME
. NAME OF OPERATOR	tural Car Co	mm 2 m * *			San Juan 29-7 Unit
LI PASO NA	tural Gas Co	upany			9. WELL NO.
	, Farmington	NM 87401			40A  10. FIELD AND POOL, OR WILDCAT
	deport location clearly an		y State requirements.*)		Blanco Mesa Verde
At surface	1540'S, 1				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
. At proposed prod. zor	•				ł .
, tre proposed produces.	same				Sec. 28, T-29-N, R-7-W
DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH   13. STATE
15 miles E	ast of Blance	O, NM			Rio Arriba NM
5. DISTANCE FROM PROPO LOCATION TO NEARES	OSED*		NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE I (Also to nearest dri	LINE, FT. g. unit line, if any)	1100	Unit		E/320.00
S. DISTANCE FROM PROI TO NEAREST WELL, D	OSED LOCATION* ORILLING, COMPLETED,	İ	PROPOSED DEPTH	20. кота	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	3000 <b>'</b>	6248'	Rotar	~
	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
6844'GR					
<b>;.</b>		PROPOSED CASING A	AND CEMENTING PROGR	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'	_ 224 0	cu.ft. to circulate
8 3/4"	7"	20.0#	3985'	I	cu.ft.to cover Ojo Ala
6 1/4"	4 1/2"line	r 10.5#	3835-6248'		cu.ft.to fill to 3835
A 3000 psi blind and p This gas is	WP and 6000	psi test do ll be used f	ouble gate pre	eventer	e Verde formation.  The equipped with the cion on this well.
76	PROPOSED PROGRAM: If	proposal is to deepen o	to this well	present prod	luctive one that proposed new productive
eventer program, if an	PROPOSED PROGRAM: If drill or deepen direction	proposal is to deepen o	r plug back, give data on	present prod	luctive cone and proposed new productive d and true vertical depths. Give blowout
eventer program, if an	PROPOSED PROGRAM: If drill or deepen direction	proposal is to deepen o ally, give pertinent dat	or plug back, give data on a on subsurface locations	present prod and measure	d and true vertical depths. Give blowout
signed	PROPOSED PROGRAM: If drill or deepen direction	proposal is to deepen o ally, give pertinent dat	r plug back, give data on	present prod and measure	d and true vertical depths. Give blowout
signed	e PROPOSED PROGRAM: If drill or deepen direction y.	proposal is to deepen o ally, give pertinent dat	or plug back, give data on a on subsurface locations	present prod and measure	d and true vertical depths. Give blowout
SIGNED	ral or State office use)	proposal is to deepen o ally, give pertinent dat	or plug back, give data on a on subsurface locations  Drilline	present prod and measure	d and true vertical depths. Give blowout
SIGNED	ral or State office use)	proposal is to deepen o ally, give pertinent dat  TITLE	or plug back, give data on a on subsurface locations  Drilline	present prod and measure	d and true vertical depths. Give blowout

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

Form C-102 Supersedes C-128 Effective 4-1-55

All distances must be from the outer boundaries of the Section 1 10 100 Well tio. EL PASO NATURAL GAS COMPANY SAN JUAN 29-7 UNIT (SF-078945) 700er tion Township Chanty I 29N 74 RIO ARRIBA A built Fortupe Location of Well: fort from the South 1180 line and East Arodicing Permation 6814 Blanco Mesa Verde Mesa Verde 320.00 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plut 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? Unitization 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, climinating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information con-#40 tuined herein is true and complete to the best of my knowledge and belief. 0 Home Drilling Clerk SF-C78424 El Paso Natural Gas Co. Company September 14, 1978 Sec 28 I hereby certify that the well location shown on this plat was plotted from field 8945 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my 11801 RECELVED knowledge and belief. SEP 1,8 1978 the Euryeved U. S. GEOLOGICAL SURVEY DURANGO, COLO. Probabilities brownshipping was need that a browned in

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

#### Multi-Point Surface Use Plan San Juan 29-7 Unit #40A

- 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 emisting 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 San Juan 29-6 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,

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U. S. GEOLOGICAL SURVEY DURANGO, COLO.

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 sagebrush flats and rolling hills with sagebrush and cedar growing. Deer 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.

DECEIVE D. C. Walker
Project Drilling Engineer

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## Operations Plan San Juan 29-7 Unit #40A

I. Location: 1540'S, 1180'E, Section 28, T-29-N, R-7-W, Rio Arriba County, NA

Field: Blanco Mesa Verde <u>Elevation:</u> 6844'GR

#### II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3685 <b>'</b>
		Ojo Alamo	2645 <b>'</b>	Mesa Verde	5300 <b>'</b>
		Kirtland	2830 <b>'</b>	Menefee	5420 <b>'</b>
		Fruitland	3330 <b>'</b>	Point Lookout	5795 <b>'</b>
		Pic.Cliffs	3605 <b>'</b>	Total Depth	6248'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5290', 5410', 5785' 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 3985'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3985 <b>'</b>	7"	20.0# K-55
		6 1/4"	3835-6248'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6248' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.



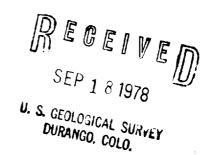
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

#### V. Cementing:

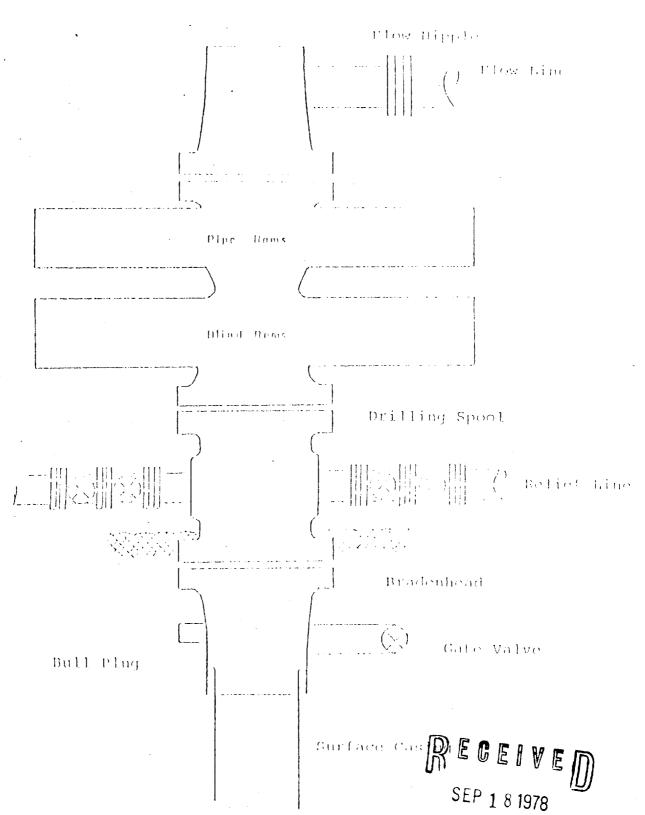
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 114 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 (302 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" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 303 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 5.25# gilsonite plus 1/4# Flocele per sack (421 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

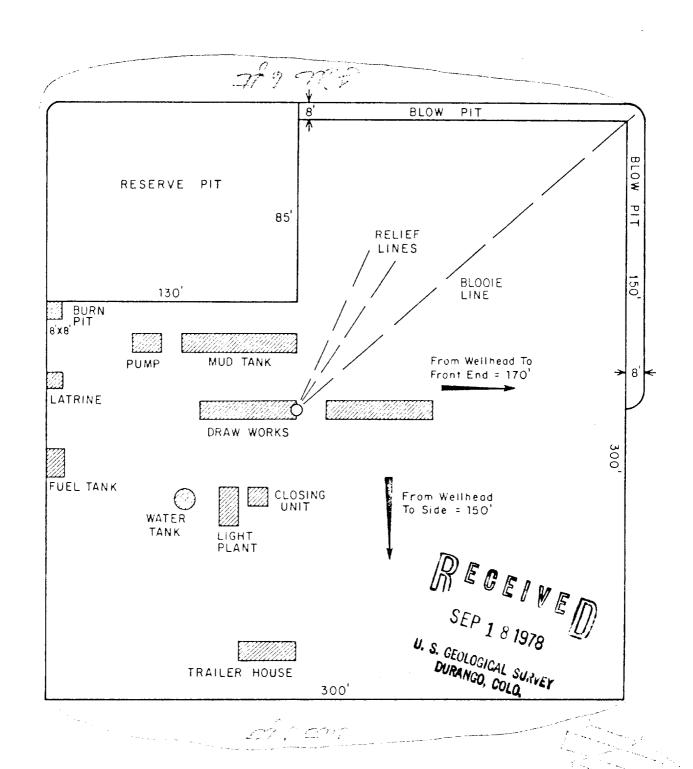


#### Typical H.O.I Fretailation Tor Meno Verde Well



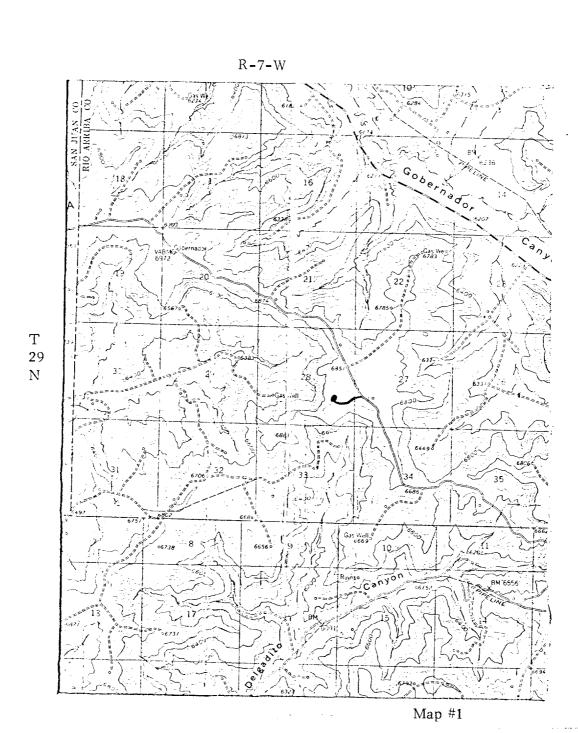
Scries 900 Double Gate BOP, rated DURANGO, COLO.

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	
	†	<u> </u>			DRAWN JL.	н. 8-16-78		
			· · · · · · · · · · · · · · · · · · ·	_ +	CHECKED		TYPICAL LOCATION PLAT FOR	
	<b>!</b>				CHECKED		MESAVERDE OR DAKOTA DRILL SITE	-
	İ	İ	· - · - · - · - · - · - · - · - · - · -		PROJ. APP.		MEGAVERDE ON DAROTA DRIEE SITE	-
PRT.	SEP.	DATE	ТО	w.o.	DESIGN	· •	1"-50' DWG.	REV.
		PRINT	RECORD		w.o.	,	SCALE: 1" = 50' DWG. NO.	

#### EL PASO NATURAL GAS COMPANY San Juan 29-7 #40 A SE 28-29-7



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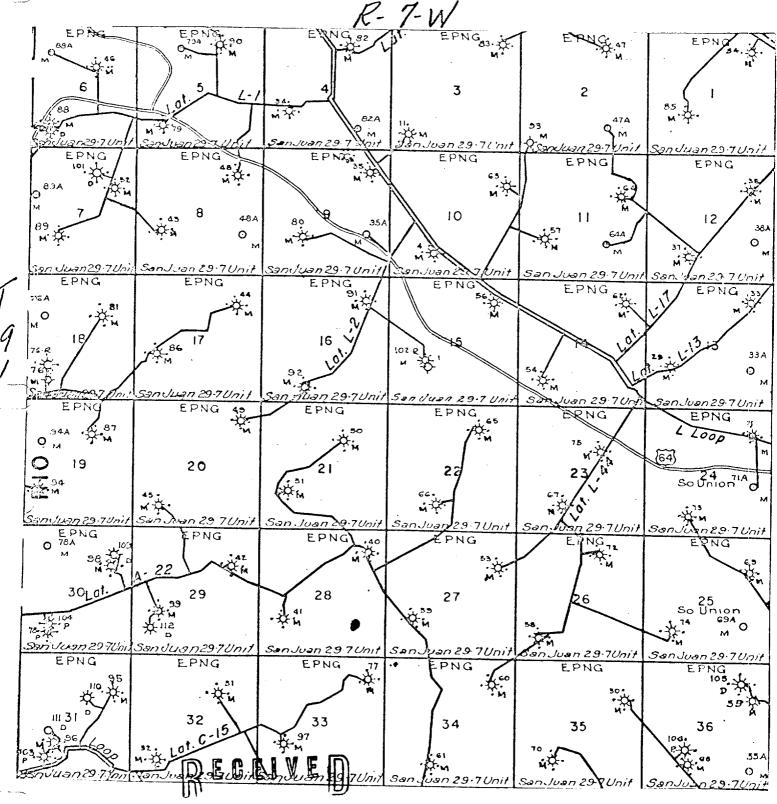
U. S. GEOLOGICAL SURVEY DURANGO, COLO.

#### LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES ++	+
EXISTING	ROAD & PIPELINE	
PROPOSED	ROADS	
PROPOSED	PIPELINES + +	-+-
PROPOSED	ROAD & PIPELINE	

### EL PASO NATURAL GAS COMPANY San Juan 29-7 #40 A

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Map #2

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Proposed Location