#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

**UNITED STATES** DEPARTMENT OF THE INTERIOR

**GEOLOGICAL SURVEY** 

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ı	5. LEAS	3 E	DESI	GNA	TION	AND	SE	BIAL	No.	_
	SF	0	797	75	7A					

APPLICATION	FOR PERMIT T	O DRILL, DEEP	EN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ia. TYPE OF WORK	LL 🛛	DEEPEN 🗆	PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	LL &	DEEPEN	FLUG BA	CK 🗀	San Juan 29-4 Unit
	S OTHER		INGLE X MULTII	PLE	S. FARM OR LEASE NAME
WELL WE 2. NAME OF OPERATOR	CLL EL OTHER	2.	/17	TAT	San Juan 29-4 Unit
El Paso N	Matural Gas Co	ompany	RLLE	IVEN	9. WELL NO.
	9, Farmington	NM 87401	/		1. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re	port location clearly and	n accordance with any	State requirem AUG 1	1 1981	L.Blanco PC
At surface	1420'N, 21		OIL CON	m	SEC., T., B., M., OR BLE.
At proposed prod. zone			Disi	, · · · · · · · · · · · · · · · · · · ·	sec.8,1-29-N,R-4-W
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	ST TOWN OR POST OFFIC	2.		12. COUNTY OR PARISH   13. STATE
7 miles N	Northeast of	Gobernador,	NM	- 1 3	Rio Arriba NM
15. DISTANCE FROM PROPO	SED*		O. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig	INE, FT.	1420'	${\tt unit}$	101	His WELL
S DISTANCE FROM PROPO	SED LOCATION*	19. PI	ROPOSED DEPTH	20. ROTA	BY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THE		.5mile	4450'	1	Rotary
21. ELEVATIONS (Show when 7418 GL	ther DF, RT, GR, etc.)			3	22. APPROX. DATE WORK WILL START*
23.	P	ROPOSED CASING AN	D CEMENTING PROGR	AM	\$ \$4 \$ 3 B B B B
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	T & 3	QUANTITY OF CEMENT
	8 5/8"	24.0#	200'	165	cu.ftcirc.to surfac
12 1/4" 7 7/8"	4 1/2"	10.5#	4450'		cu.ft100% excess to
	4 1/2				r Ojo Alamo
with bling on this on This gas	nd and pipe r	ems will be  DREAD SCHOOL ""GENERAL REQUES Thodox due to	used for blo WHORIZED ARE WHO ATTACHI LIMENTS" b topography	ED	ter equipped prevention
signed Signed	drill or deepen directional y.  9. Suisco	roposal is to deepen or ly, give pertinent data	plug back, give data on on subsurface locations a Drillin	and measure	ductive sone and proposed new productive ed and true vertical depths. Give blowout
(This space for Fede	ral or State office use)			ا	* ADDDOVED
PERMIT NO.		<del> </del>	APPROVAL DATE		AS AMENDED
APPROVED BY	<del></del>	TITLE			DATE
CONDITIONS OF APPROV	AL, IF ANY:	NM	oc <b>c</b>	-	Dian Ellis
		*See Instructions	on Reverse Side		DISTRICT ENGINEER

### STATE OF NEW MEXICO CHERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION P. O. BOX 2088

2088 Form C-107
MEXICO 87501 Revised 10-1

SANTA FE, NEW MEXICO 87501

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

<u> </u>			res must 1 17					<del></del>
Operator EL PASO NAT	TURAL GAS CO	MPANY		Lease SAN	JUAN 29-4	UNIT (SI	F-079757-A)	24 24
Unit Letter	Section 8	Township 29N	·	Pana	- LW	County	rriba	
Actual Footage Local					444	I RIO A	11100	
1420	feet from the	North	line and	21	40 <u>fee</u>	t from the	East	line
Ground Level Elev: 7418	Producing F	ormation red Cliff	·c	Pool East	Blanco Pio	tured Cl	•	icated Acreage:
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Outline the     If more the     interest and	in one lease i							eof (both as to working
dated by co	mmunitization,	unitization	n, force-pool	ing. etc?	d to the well,			l owners been consoli-
Yes	140 II	answer is	yes, type o	or consor	idation	Unit	ilzation -	
<b>1</b>		e owners a	nd tract desc	criptions	which have a	ictually bee	n consolidate	d. (Use reverse side of
No allowabl								nitization, unitization, proved by the Commis-
		T: $\overrightarrow{\mathbf{M}}$	$\sim\sim\sim\sim$	$\frac{\times\times\times\times}{V}$	\\		. с	ERTIFICATION
NOTE: THIS PLAT IS SHOW MOVED I NOTE: THIS PLAT I SHOW CORREC	LOCATION. 9 S REISSUED	-26-80 TO	187-A 1		CLIFF 2140'	5	best of my kr  Name Drillin Position	ify that the Information con- is true and complete to the howledge and belief.  Grant Clerk  Natural Gas Co.
OFFI	71 6		SF-0797		月入院		Novembe	r 5, 1980
ULL	<i>         </i>	Sec.	SF	$\frac{\sqrt{\Lambda}}{N}$			Date	
OIL CON. O	1981 CONN.	× × × × × × × × × × × × × × × × × × ×	8 24 1 1 1 2 1	\$\frac{1}{2}	×		shown on thi notes of act under my sur	rtify that the well location is plat was plotted from field wal surveys made by me or pervision, and that the same correct to the best of my and belief.
							Date Surveyor	17 1380
·	1 1 1						Registered fing and Land Sylventer	Resident Engineer
-	<u> </u>	ale: 1"=	10001	/ /	1		Gentiticate Ho	KERR. IR.



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

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#### Multi-Point Surface Use Plan San Juan 29-4 Unit #24

- 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 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,

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, juniper, sage, oakbrush, and pine growing. Cattle, deer and elk are occasionally seen on the proposed project site.
- 12. Operator's Representative D. R. Read, PO Box 289, 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.

L. A. Aimes

Project Drilling Engineer

#### Operations Plan San Juan 29-4 Unit #24

I. Location: 1420'N, 2140'E, Section 8, T-29-N, R-4-W, Rio Arriba Co., NM

Field: E.Blanco PC <u>Elevation:</u> 7418'GL

#### II. Geology:

Α.	Formation Tops:	Surface Ojo Alamo Kirtland	San Jose 3600' 3715' 3910'	Pictured Cliffs Lewis Total Depth	4110' 4410' 4450'
		Fruitland	39.TO.		

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

#### III. Drilling:

A. Mud Program: mud from surface to TD.

#### IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	200 <b>'</b>	8 5/8"	24.0# K-55
	7 7/8"	4450'	4 1/2"	10.5# K-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe

4 1/2" production casing - guide shoe and self-fill insert float valve on top of the shoe joint. Run 8 - 4 1/2" x 7 7/8" centralizers, one on each joint beginning with the shoe joint.

- C. Tubing: 4450' of 1 1/4", EUE, 2.4# K-55 tubing
- D. Wellhead Equipment: 8 5/8" x 4 1/2" 2000 psi wellhead with a 4 1/2" x 2 3/8" tubing head. 4 1/2" casing to be cut off 24" above csg.slips.

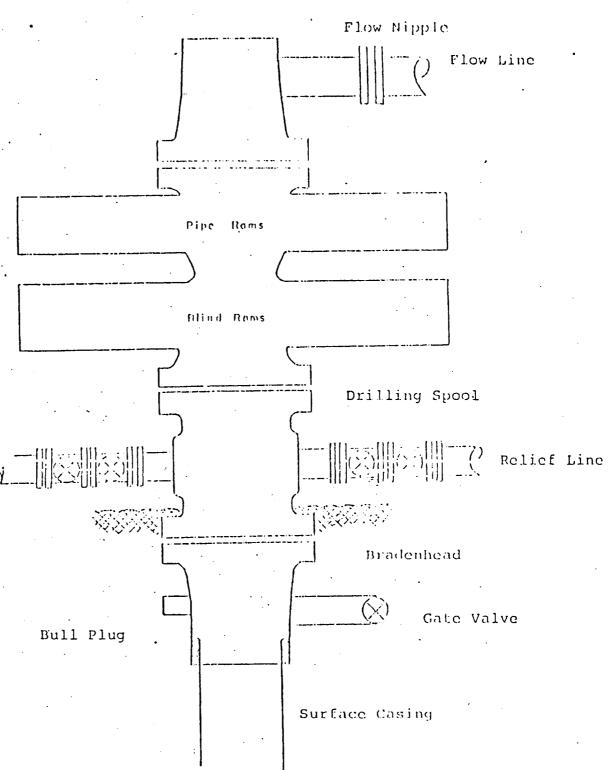
#### V. <u>Cementing:</u>

8 5/8" surface casing - 140 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing, wellhead and BOP to 600#/30 min.

4 1/2" production casing - precede cement with 5 bbls. water. Cement with 181 sks. 65/35 Class "B" Poz with 6% gel and 8.3 gallons water/sk. followed by 75 sks. 50/50 Class "B" Poz with 2% gel (387 cu.ft. of slurry, 100% excess to cover Ojo Alamo). Spot 200 gallons 7 1/2% acetic acid on top of plugs. Run temperature survey after 12 hours.

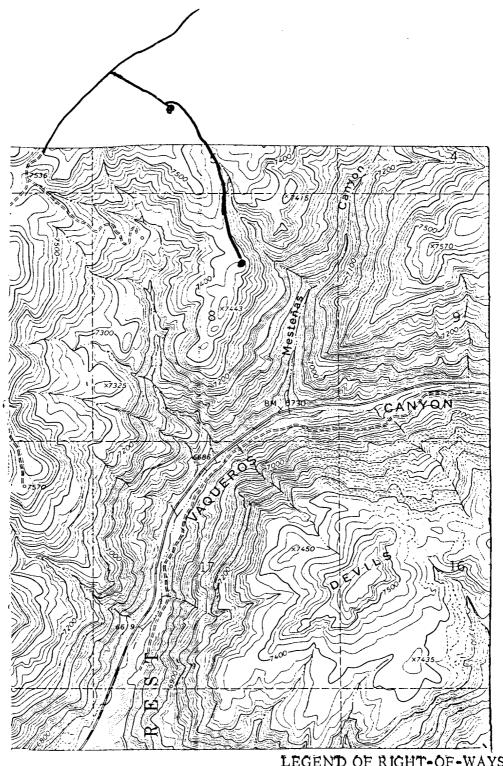
HIM Steel Mud pits Reserve DIK. Pump Jettine Jextx4'deep Byrn Pit 8 x 12 x 4 c/sep

## Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

El Paso Natural Gas Company San Juan 29-4 Unit #24 NE 8-29-4



# El Paso Natural Gas Company San Juan 29-4 Unit #24 NE 8-29-4

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	EPNG	Lot. Amoco		EPNG •	Continental Oil	
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	Voldez EPNG O	SenJuen 29 4Unit	22 San Juan 29-44	M Valdez Amoco Prod.	Conoco 29-4 Continental Oil	Conoco 29-4
	<b>M</b>			Amocu Frod.	×°°	13 C 2
ר	18	/17	16	15 es	14	P Southlands
2	SenJuan 29 4 Unit	Conoco		<u>ටියා                                    </u>	Conoco 29.4 Schalk	Conoco 29.4
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	SepJuen 29-4 Unit	5chalk 29-4	sensuenza almi	San Juan 29 - 40hii	SanJuan 29-4Unit	
	7		/1 1	VY	Propos	Map #2. sed Location ●

Map #2 Proposed Location ●