Form 9-331 C (May 1963)

#### SUBMIT IN TRIPLICATE\*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

	UNI DEPARTMEN	TED STATES T OF THE II		•	reverse si		SO OS 5. LEASE DESIGNA	9-2226 TION AND SERIAL NO.
GEOLOGICAL SURVEY							SF 079265	
APPLICATION	FOR PERMIT	TO DRILL, D	EEPE	N, OR P	LUG B	ACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME
1a. TYPE OF WORK	LL 🗵	DEEPEN [		<del></del>	JG BAC		7. UNIT AGREEME	NT NAME
D. TYPE OF WELL OIL GA WELL W  2. NAME OF OPERATOR	S OTHER		SIN ZOI	IGLE X	MULTIPI ZONE	.10	8. FARM OR LEASE	NAME
	El Paso Natural Gas Company 9. WELL NO.							
<b>0</b>	Tarminatan	NIM 0740	١٦				28 10. field and po-	OT. OR WILDCAM
4. LOCATION OF WELL (Re	Farmington			ate requireme	nts.*)		Basin Dakota	
At surface	2170's, 1				,		11. SEC., T., R., M.	OR BLK.
At proposed prod. zon	•	040 W					AND SURVEY (	-26-N, R-6-W
14. DISTANCE IN MILES A		AREST TOWN OR POST	r office	+			12. COUNTY OR PA	RISH   13. STATE
16 miles so	outheast of	Bloomfield	I. NI	1			Rio Arri	
15. DISTANCE FROM PROPO	SED*	DIGOMETOTO		OF ACRES IN	LEASE		F ACRES ASSIGNED	<u> </u>
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. . unit line, if any)	470'	10 pp		42.48		HIS WELL	√ 320.00
TO NEAREST WELL, DI	TO NEADERT WELL DELLING COMPLETED				Rotar			
21. ELEVATIONS (Show when 6743 GL	ther DF, RT, GR, etc.)					<u> </u>	<del>-</del>	E WORK WILL START*
23.		PROPOSED CASIN	IG AND	CEMENTING	PROGRA	м		-
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING D	EPTH		QUANTITY OF C	EMENT
13 3/4"	9 5/8"	36.0#	<del> </del>	2(	00'	224 c	cu.ft. to circulate	
8 3/4"	7"	10.5			00'			
7 7/8"	4 1/2"	10.5#&11.	6#	748	86'	3 sta	iges - 140	8 cu.ft.
lst stage - 425 cu.ft. to cover Gallup 2nd stage - 570 cu.ft. to cover Mesa Verde 3rd stage - 413 cu.ft. to cover Ojo Alamo								
A 3000 psi	y perforate WP and 6000 pipe rams wi	psi test	doul	ole gate	e pre	venter	equipped	51913
This gas is dedicated.								
The W/2 of Section 33 is dedicated to this well. S. GEOLOGICAL SURVEY								
IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive tone productive 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.								
24.	y. Busco	TIT	:LE	Dr	illing	g Cler	ck date 1	1-27-79
(This space for Fede	ral or State office use)			<del></del>				

approved by conditions of approval, IF ANY:

all(1) 2 /2 /3 L

all(1) 2 /2 /3 L

را

\*C., L. ..... O., D. ..... C: ...

.

# TIL CONSERVATION DIVISIO"

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.								
Operator			Lease	<b>.</b>		Well No.		
EL PASO NATURAL GAS COMPANY			KLEIN	(SF	<b>-</b> 079265)	28		
Unit Letter	Section	Township	Range St.1	County	A			
K	33	26N	6W	Rio	Arriba			
Actual Footage Location of Well:  2170								
Ground Level Elev.	Producing Fo		Pool			Dedicated Acreage:		
6743 DAKOTA			BASI	N DAKOTA	<u></u>	320.00 - Acres		
1. Outline the acreage dedicated to the subject well by colored penc					maska an th	<del>*************************************</del>		
1. Outline in	e acreage dedic	ated to the subject w	en by contred pent	cit of nachure	marks on th	ie 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?							
Yes	No If	answer is "yes," type o	of consolidation _	<del></del>				
						, ,,,		
		owners and tract des	criptions which hav	ve actually be	en consolid	ated. (Use reverse side of		
	f necessary.)	- ad to the	1 integrate 1 1 -	on on		nmunitization, unitization,		
	_				•	amunitization, unitization, approved by the Commis-		
sion.	ing, or otherwise	oyor until a non-standar	a unit, ciminating	Such interest	, nas peen	approved by the Commis-		
	XXXXXXX	******			<del></del>			
3	1	<b>X</b> 4	1			CERTIFICATION		
XI	i I	×	i	1				
×	i 1	Ø	1		1	certify that the information con-		
X)		×	t	i	1	erein is true and complete to the		
X	1	×	1	l	best of m	ny kaowiedge and belief.		
X	   '	×	!	1	Sl.	J. Busco		
best of my knowledge and belief.  Name Drilling Clerk						lling Clerk		
	1	×			Position El I	Paso Natural Gas Co.		
	 	$\bowtie$	1		Company Nov	rember 15, 1979		
SF-079265			1		Date			
⊠ Si		Sec.	1		54.6			
×	Will Sales	<u> </u>	<u> </u>	S.				
N .	The King	Ø		\\				
1840		, 🛭 33			I hereby	certify that the well-location		
1040	P 12 P	8cc 💥			1	this plat was plotted from field		
2/11/2/11/2/11/2/11/2/11/2/2/2/2/2/2/2/	一颗一	. 🛭		i j		actual surveys made by me or		
□ 河	本意	c.		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	supervision, and that the same		
	大量三个	Chacra 🔘		űr.	1	and correct to the best of my		
<b>X</b> /	3501	y En Ex	_ 6 E	V E (,	knowledg	ge and belief.		
M	+ <del></del>			US 7				
	l li		DEC 03 19	979	5-11.2			
		.ν <b>(</b> )		į	Date Surve			
	******	Ø	H. S. GEOLOGICAL	SURVEY		2, 1979 Professional Engineer		
(S. Ca)	The state of the s	Ø	an, co	LO.		ad Surveyor \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
(S)	P. C.	N N	1	l	121	123-7		
X	7 0 2	N 🛭	<b>i</b> 1		Fred	B. Kerr Jr.		
					Certificate	No.		
0 330 660	90 1320 1650 1	980 2310 2640 200	20 1500 1000	5000	3950			

90 1320 1650 1960 2310 2640 2000

330 660

# EIPaso NATURAL GAS COMPANY

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

#### Multi-Point Surface Use Plan

#### Klein #28

- 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 Gonzales Water Well.
- 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,

DEC 03 1979

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 with sagebrush growing. Cattle and 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.

L. A. Aimes

Project Drilling Engineer

- W **E | Y E** | IEC 03 1979

S CEOLOGICAL SURVEY

#### Operations Plan - Klein #28

I. Location: 2170'S, 1840'W, Section 33, T-26-N, R-6-W, Rio Arriba County, NM

Field: Basin Dakota Elevation: 6743'GL

# II. Geology:

A.	Formation	Tops:	Surface	San	Jose	Menefee	4614'
			Ojo Alamo		2194'	Point Lookout	5109'
			Kirtland		2429'	Gallup	6247'
			Fruitland		2694'	Greenhorn	7007'
			Pic.Cliffs	3	2859'	Graneros	7073'
			Lewis		2934'	Dakota	7215'
		Mesa '	Mesa Verde	<u> </u>	4539'	Total Depth	7486 <b>'</b>

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

C. Coring: none

## III. Drilling:

A. Mud Program: mud from surface to Total Depth.

### IV. Materials:

A. Casing Program	m: <u>Hole Size</u>	Depth	Csg.Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4"	5800 ¹	4 1/2"	10.5# K-55
	7 7/8"	6500 <b>'</b>	4 1/2"	10.5# K-55
	7 7/8"	7486'	4 1/2"	11.6# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe

4 1/2" production casing - guide shoe and self-fill insert valve Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 3034' and tool for third stage at 5700'. Run 20 centralizers spaced as follows: one on each of the bottom 8 joints, one below each stage tool, and five above each stage tool spaced every other joint.

- C. Tubing: 7486' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and Baker expendable check valve with drill type guide.
- D. Wellhead Equipment: 10" 3000 x 9 5/8" casing head with 10" x 4 1/2" casing hanger, 10" x 3000 x 6" 3000 xmas tree.

#### V. Cementing:

Surface casing (13 3/4" x 9 5/8") - 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). WOC 12 hours. Test 1 6 1 30 min.

DEC 03 1979

# V. Cementing, cont'd.

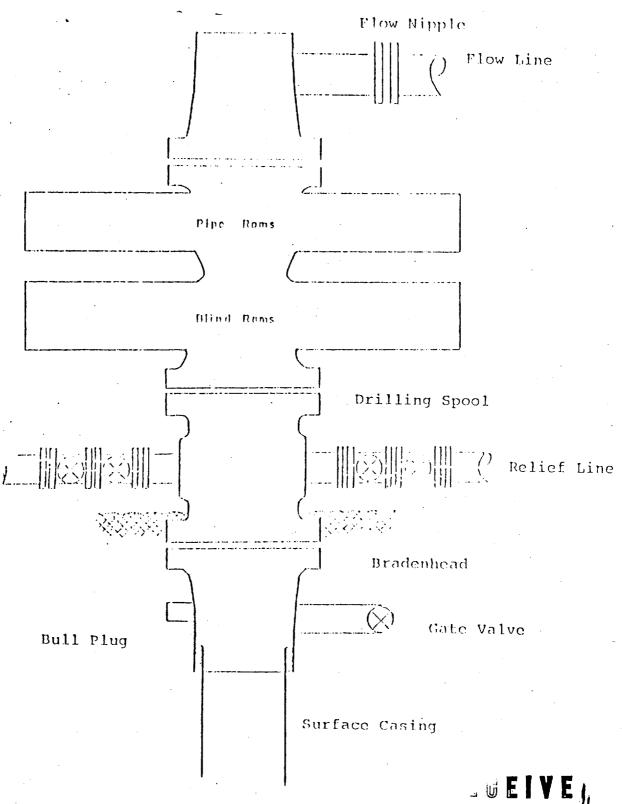
Production casing -  $(8 \ 3/4" \& 77/8" \times 4 \ 1/2")$ 

First stage - use 200 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 80 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (425 cu.ft. of slurry, 50% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 352 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (570 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 255 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (413 cu.ft. of slurry, 60% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

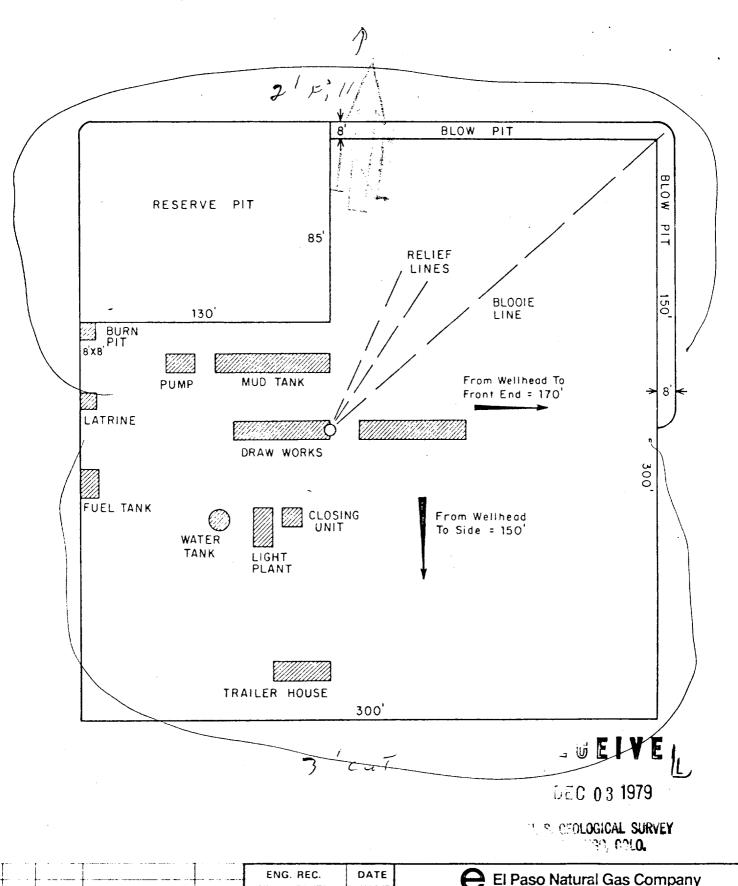




Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure

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.



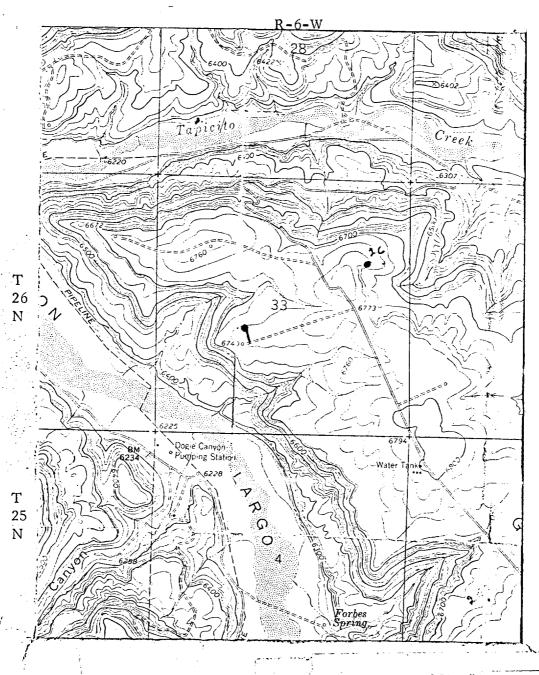
DRAWN JL.H. 8-16-78 CHECKED CHECKED PROJ. APP PRT. SEP. DATE w.o. DESIGN PRINT RECORD w.o.

# El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

DWG. REV. SCALE: 1" = 50" NO.

# EL PASO NATURAL GAS COMPANY Klein #28 SW 33-26-6



DEC 03 1979

S. GEOLOGICAL SURVEY

# MAP #1 LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

EXISTING PIPELINES

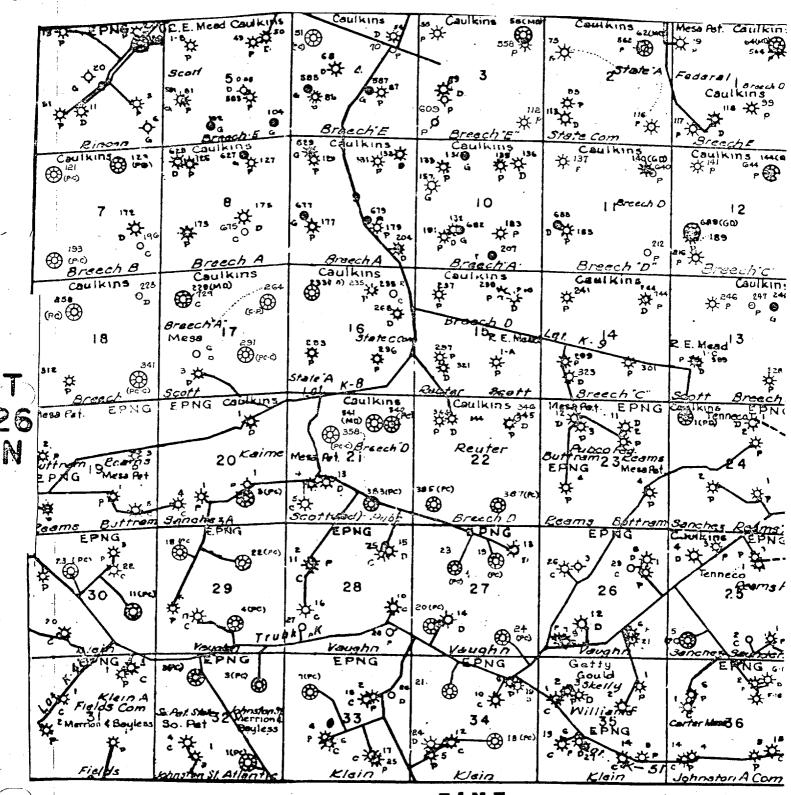
EXISTING ROAD & PIPELINE

PROPOSED ROADS

PROPOSED PIPELINES

EL PASO NATURAL GAS COMPANY

Klein #28 - SW 33-26-6 R - 6 - W



EIVE

MAP #2

DEC 03 1979

Proposed Location

S GEOLOGICAL SURVEY