SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Budget Bureau 1	No.	42-R1425
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UNITE	ָט צ	SIAIL	:5
DEPARTMENT	OF	THE	INTERIOR

	UNIT DEPARTMENT	ED STATES			reverse s	ide)	30-045	-24414
		GICAL SURVE		1011			1	TON AND SERIAL NO.
A PRI ICATION	N FOR PERMIT 1			N OR D) A CI/	NSS-C-14-	20-603-77 TTER OR TRIBE NAMI
1a. TYPE OF WORK							Navajo	
b. TYPE OF WELL	LL x	DEEPEN [_		JG BA			T NAME
OIL GAWELL GAW 2. NAME OF OPERATOR	ELL X OTHER		SIN	GLE K	MULTIP	LE	8. FARM OR LEASE	* .
_	tural Gas Cor	mpanv					De Na Haz	Za
ADDDRESS OF ODER LOCK				RECE	IVE	DI	2	# + b
PO BOX 289 LOCATION OF WELL (R	, Farmington eport location clearly and 650'N, 610	NM 8740	any St	ate requiremen	*************************************	1	10. FIELD AND POO Basin Dak	:
At surrace	650'N, 610	' W	,	APR 2	4 1580	' . <u> </u>	11. SEC., T., R., M., AND SURVEY OF	OR BLK.
At proposed prod. zon	e			c 050100	ICAL SU	RVEY.	Sec.18,T-	26-N,R-8-1
f. DISTANCE IN MILES	SAME AND DIRECTION FROM NEAR	REST TOWN OR POST	1	ENGMINUL	ON, N. 1	.i.	NMPM 12. COUNTY OR PAR	ISH 13. STATE
	rom Huerfano	, NM					San Juan	NM
5. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L	INE. PT.	610'	16. No.	OF ACRES IN			OF ACRES ASSIGNED HIS WELL	الار 320. 28
(Also to nearest drlg 3. DISTANCE FROM PROP	OSED LOCATION*	610.	19. PRO	160.4	4 L	20. вота	RY OR CABLE TOOLS	320.20
TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED, S LEASE, FT.	300'		6583	t	Rotary		**************************************
ELEVATIONS (Show whe	ether DF, RT, GR, etc.)						22. APPROX. DATE	WORK WILL START
6168'GL	n	DODOSED CASIN	C AND	CHAMBAGIAC	DDOGD			• .
SIZE OF HOLE	SIZE OF CASING	ROPOSED CASING				N.DA		
13 3/4"	9 5/8"	36.0#	-	SETTING DI	·	224 CI	QUANTITY OF CE	
8 3/4"	4 1/2"	10.5#						
7 7/8"	4 1/2"	10.5#		6583	•	1784	cu.ft 3	stages
A 3000 psi blind and This gas i The W/2 of the W/2 of the Brace Describe the Brace Described the B	WP and 6000 pipe rams will s dedicated. Section 18 in proposed Program: If parill or deepen directions.	psi test ll be used is dedicat proposal is to deepe	douk d for ced t	fracture gate blow of this subsurface looking	well	venter	equipped the n th 30 1980 ON. COM OIST and true vertical de	with is well. Dosed new productive the control of
(This space for Feder	ral or State office use)	UA TITE	Æ	Dril	Ling	Clerk	DATE <u>4</u>	22-80
(Ture share the Ledel	at of State office use)				1 445	. F	PROVED	
PERMIT NO.			^	PPROVAL DATE		<u>/ / / / / / / / / / / / / / / / / / / </u>	AMENDE	D
APPROVED BYCONDITIONS OF APPROVE	AL, IF ANY:	TITL		የ		70	11 2 1980	
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NS- 119	7	Jee minde						

OIL COMBERVATION DIVIDION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-78

All distances must be from the cuter housdastes of the Section

Operator			Lease		Well No.
EL PASO NAT	URAL GAS COMP.	ANY	DE-NA-HAZ-ZA	(14-20-603-772)	
Unit Letter	Section	Township	Range	County	· · · · · · · · · · · · · · · · · · ·
D	18	26N	8w	San Juan	
Actual Footage Loca		North line and	610	eet from the West	line
Ground Level Elev.	Producing For	nation	Pool Posin Dolento	1	Dedicated Acreage:
6168	Dakota		Basin Dakota		320.30 75 Acres
1. Outline the	e acreage dedical	ed to the subject w	ell by colored pencil	or hachure marks on the	plat below.
2. If more th interest an		dedicated to the wel	l, outline each and ic	dentify the ownership the	reof (both as to working
		fferent ownership is nitization, force-pool		I, have the interests of a	all owners been consoli-
Yes	No II an	swer is "yes;" type o	of consolidation	ommunitization	
If answer i	s "no," list the c	owners and tract desc	criptions which have	actually been consolidat	ed. (Use reverse side of
	•	d to the well until al	l interests have been	consolidated (by comm	
				uch interests, has been a	
sion.			. 5	•	,
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	1 /	K		best of my	knowledge and belief.
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NAV NAV	AJO ALLOTTEE	K I	Ì	Name	y Madfella.
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NAV.	AJO ALLOTTEE		1	knowledge d	and belief.
14	-20-603-771				
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EIPEED NATURAL GAS

P.O. GOLGERO FARMULATOR, BLUZZA (G.O. MAGA PHORE (GOLGEROGIA)

Well Name De-Na- Haz- 2a # 2	•
Location Nw 18 26-8	
Formation DK	
We, the undersigned, have inspected this location	and road
1 2004210.	. and road.
U. S. Forest Service	
	Date .
Archaeologist	2/26/80 Date
,	Date
Bureau of Indian Affairs Representative	3/3/80 Date/
Bureau of Indian Affairs Representative	Date/
(FUR Mark)	2/26/80
Bureau of Land Management Representative	Date 26/81)
	. /
U. S. Geological Survey Representative - AGREES	2/26/80
TO THE FOOTAGE LOCATION OF THIS WELL.	Daté /
REASON:	
Seed Mixture:	
Equipment Color: Brown	
Road and Row: (Same) or (Separate)	
Remarks:	
	•



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan De-Na-Haz-Za #2

- 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 Huerfano Water Well #2.
- 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 sagebrush flats with sagebrush growing. Cattle and horses 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 - De Na Haz Za #2

I. Location: 650'N, 610'W, Section 18, T-26-N, R-8-W, San Juan County, NM

Field: Basin Dakota Elevation: 6168'GL

II. Geology:

Α.	Formation	Tops:	Surface Ojo Alamo Kirtland Fruitland Pic.Cliffs	1227 ' 1659'	Menefee Point Lookout Gallup Greenhorn Graneros	3538' 4215' 5333' 6183' 6233'
			Lewis	2121'	Dakota	6341'
			Mesa Verde	- -	Total Depth	6583'

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:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		13 3/4" 8 3/4" 7 7/8"	200' 4865' 6583'	9 5/8" 4 1/2" 4 1/2"	32.3# H-40 10.5# K-55 10.5# 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 4815' and tool for third stage at 2221'. 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: 6583' 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" 3000 x 6" 3000 xmas tree. Wellhead representative to set all slips.

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 to 600#/30 min.

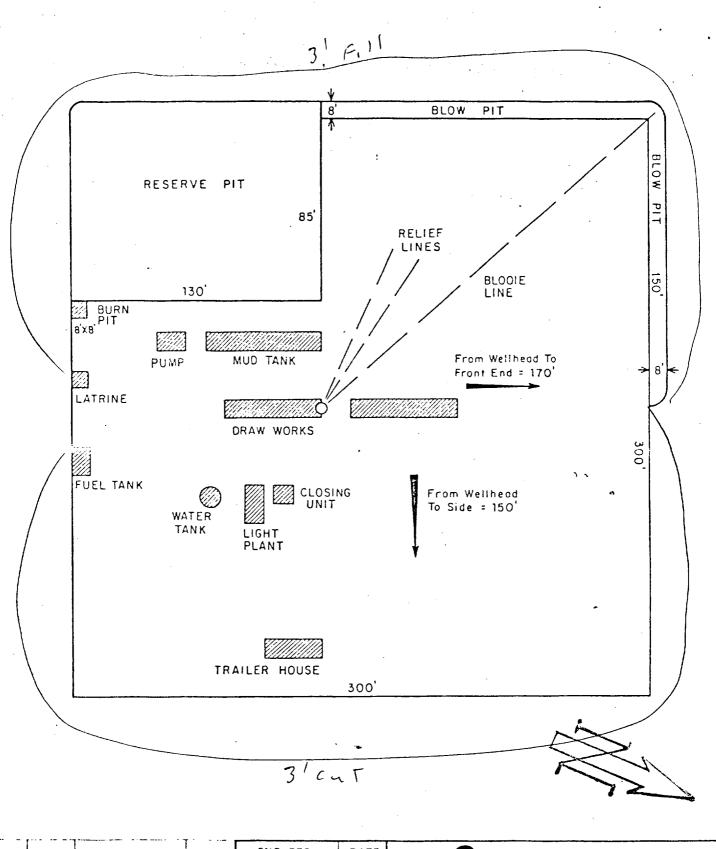
V. Cementing, cont'd.

Production casing - $(8 \ 3/4" \& 7 \ 7/8" \times 4 \ 1/2")$

First stage - use $160\,\mathrm{sks}$. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by $100\,\mathrm{sks}$. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and $1/4\,\mathrm{mmmm}$ fine tuf-plug per cu.ft. (399 cu.ft. of slurry, $40\,\mathrm{mmmm}$ excess to cover the Gallup).

Second stage - circulate mud for 2.5 hours, then cement with 437 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (709 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

Third stage - circulate mud for 2.5 hours, then cement using 418 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (676 cu.ft. of slurry, 100% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



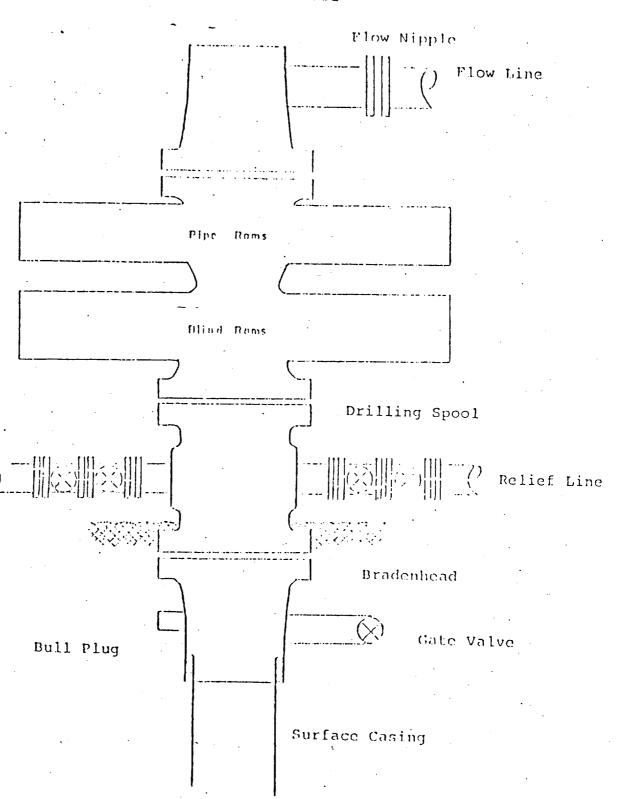
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El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

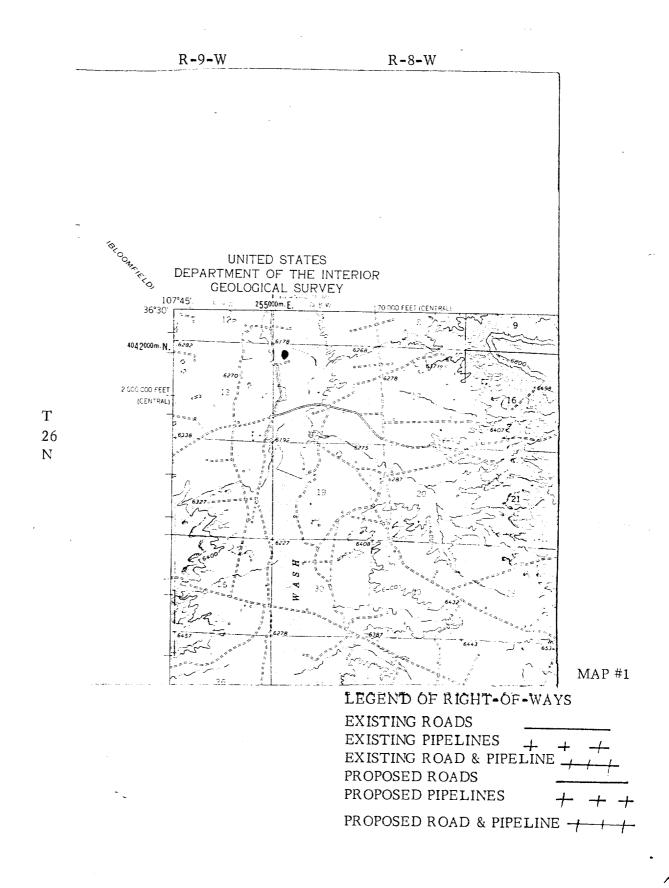
SCALE: 1" = 50' DWG.

I.E



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 De-Na-Haz-Za #2 NW 18-26=8



EL PASO NATURAL GAS COMPANY De-Na-Haz-Za #2 NW 18-26-8

R-8-W

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, A° MAP #2

Proposed Location