SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNIT	ED S	STATI	ES
DEPARTMENT	OF	THE	INTERIOR

€Ŧ	Form approved. Budget Bureau No. 42-R1425.
	30-045-24252
1	5. LEASE DESIGNATION AND SERIAL NO.
	NOO-C-14-20-5006

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16-No/17 (year)	CONDITIONS OF APPROVAL, IF ANY:	NW(CC	6	MAR 2 8 1980
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*See Instructions On Reverse Side

Form C-102 kevtsed 10-1-78

. STATE OF NEW MEXICO P. O. BOX 2088 (LNERGY ALS MINERALS DEPARTMENT SANTA FL, NEW MEXICO 87501

		All distances must be fre	on the cuter hour	Incies of the Section	***	
Cycrator			Lease	/ ·		Well No.
EL PASO NATURAL GAS COMPANY			PAH	(NOO-C-14-20-	5006)	1
Unit Letter	Section	Township	Range	County		
N	6	25N	8w	San	Juan	
Actual Footage Loc 1020	ation of Well:	South line and	1730	feet from the	West	line
Ground Level Elev.	Producing Fo	rmation	Pool	D.1	De	dicated Acreage;
6340	Dakota		I I	asin Dakota		320.81 Acres
2. If more th		ated to the subject we dedicated to the well				olat below. eof (both as to working
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	. 44					
this form i No allowat	f necessary.) ple will be assign	ed to the well until all	interests have	been consolidat	ted (by commu	d. (Use reverse side of
				T		ERTIFICATION
NOC	 -C-14-20-5009 				toined herein best of my kr	Natural Gas Co.
1730'	0-C-14-20-5000	6		MAR OIL O	houn on this not a cert my superior of the control	rify 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. 1980 Repriser
					Certificate No.	

EIPEED NATURAL GAS

P.O. Deverage FARMULGIONE, MESTAN SUCH MANAGER PROMESSION OF SOME

Well Name Pah #/	•
Location SW 6 95-8	· .
Formation DK	
We, the undersigned, have inspected this location	and road.
	·
U. S. Forest Service	Date .
Dabney Foed Archaeologist	2/26/80
Davill Canalith	3/3/80 Date 3/3/80
Bureau of Indian Affairs Representative	Date
Full Mal	2/26/80
Bureau of Land Management Representative	Date
andy Strong	2/26/80 2/26/80
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL.	Date
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 Pah #1

- 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 wash bottom with sage growing.

 Cattle, horses, and sheep 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 - Pah #1

I. Location: 1020'S, 1730'W, Section 6, T-25-N, R-8-W, San Juan County, NM

Field: Basin Dakota <u>Elevation:</u> 6340'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Menefee	3500'
		_	Ojo Alamo	1030'	Point Lookout	4253'
			Kirtland	1214'	Gallup	5378 '
			Fruitland	1668'	Greenhorn	6195'
			Pic.Cliff:	s 1927 '	Graneros	6245'
			Lewis	2140'	Dakota	6371'
			Mesa Verd	e 3481'	Total Depth	6595'

- 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:	Hole Size	Depth	Csg.Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# H-40
	8 3/4"	4903'	4 1/2"	10.5# J-55
	7 7/8"	6595 '	4 1/2"	10.5# J-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 4853' and tool for third stage at 2240'. 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: 6595' 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.

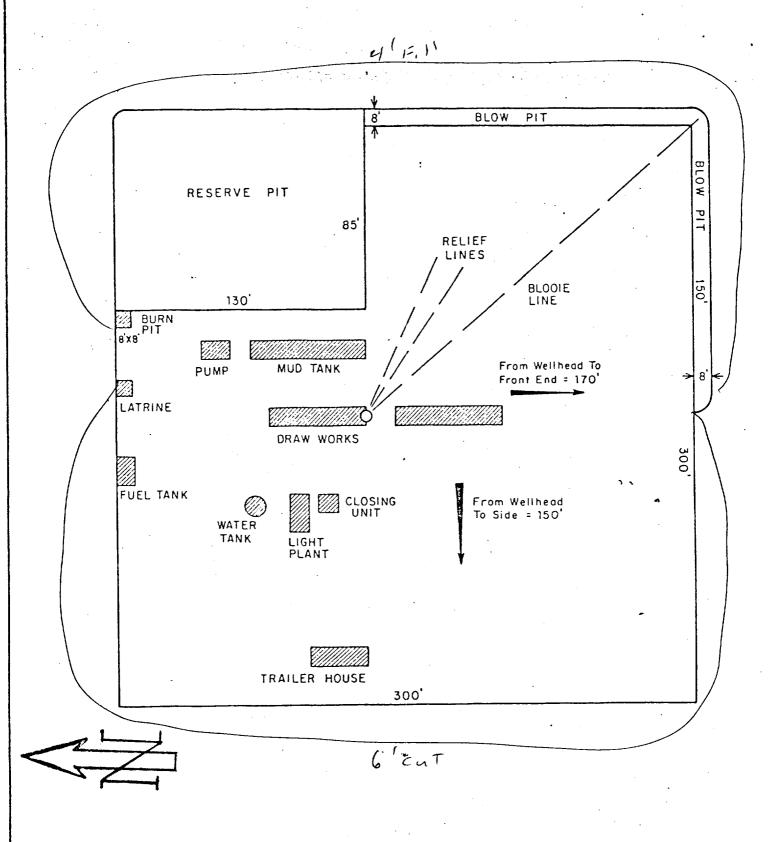
V. Cementing, cont'd.

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

First stage - use 154 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 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (388 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2.5 hours, then cement with 442 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (716 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

Third stage - circulate mud for 2.5 hours, then cement using 459 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (743 cu.ft. of slurry, 100% excess to fill to top of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



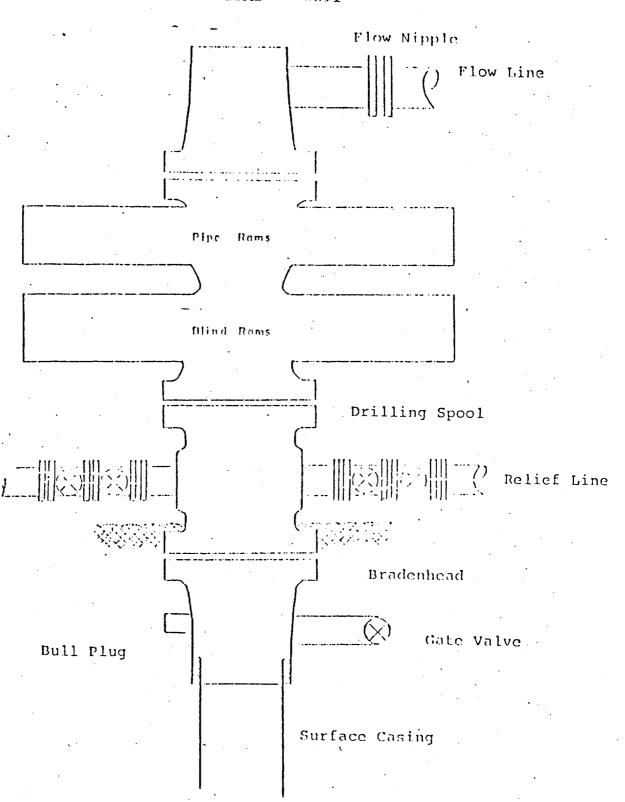
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El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

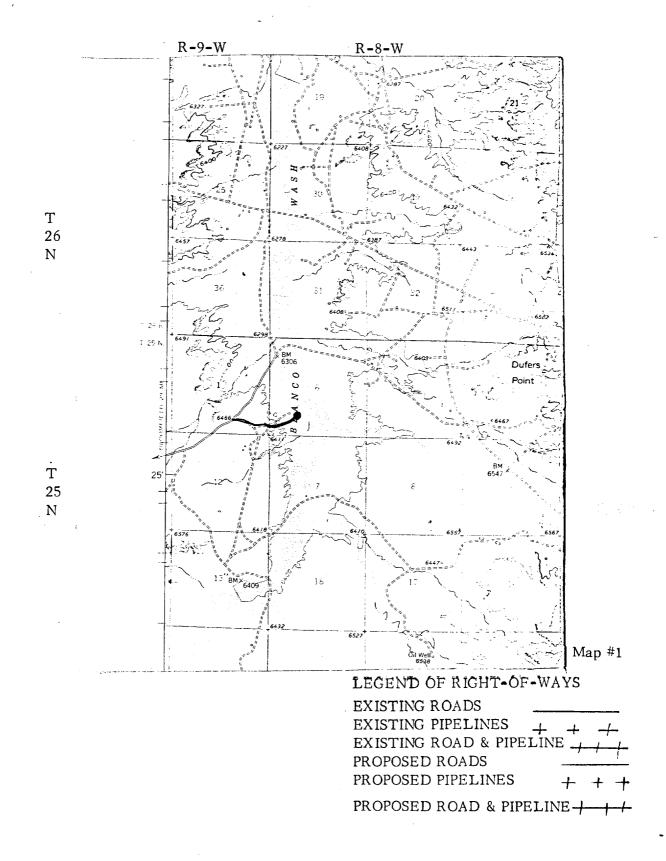
SCALE: 1"=50"

DWG. NO.



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 Pah #1 SW 6-25-8



EL PASO NATURAL GAS COMPANY Pah #1 (dk) SW 6-25-8

R-8-W

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MAP #2