SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

30-045

	DEPARTMEN' GEOLO	T OF THE I		?	[5. LEASE DESIGNATION SF 068990	N AND SERIAL NO.
APPLICATION	N FOR PERMIT			OR PLUG E	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK DR	ILL 🖺	DEEPEN [PLUG BA	ck 🗆	7. UNIT AGREEMENT	NAME
OIL C WELL C W	oTHER tural Gas Con	nany	SINGLE	X MULTIP ZONE	LE	8. FARM OR LEASE N Hudson 9. Well No.	AME
3. ADDRESS OF OPERATOR	, Farmington,					1E	
	eport location clearly and 1120'S, 15	l in accordance wit		equirements.*)		Basin Dako	ota 👅
At proposed prod. zor	same				•	Sec. Sevil - 25	
2 miles so	and direction from NEA 1theast of Fa		NM			12. COUNTY OF PARIS San Juan	H 13. STATE NM
15. DISTANCE FROM PROPO LOCATION TO NEARES: PROPERTY OR LEASE I (Also to nearest drig	r Jine, ft.	800'	16. NO. OF	1120	17. NO. O. TO TH	F ACRES ASSIGNED HIS WELL	320.00 _
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	2500'	19. PROPOSE	6470 °	20. ROTAE Rotar	Y OR CABLE TOOLS	
21. ELEVATIONS (Show who 5652 GL	ether DF, RT, GR, etc.)	- ,,,, , , , , , , , , , , , , , , , , 	, , , , , , , , , , , , , , , , , , , ,		•	22. APPROX. DATE W	YORK WILL START*
28.	1	PROPOSED CASIN	IG AND CEM	ENTING PROGRA	/W	<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот в	ETTING DEPTH		QUANTITY OF CEM	ENT
12 1/4"	8 5/8"	24.0#		200'		u.ft.circ.	
7 7/8"	4 1/2"	10.5#		6470'	1589	cu.ft 3	stages
2nd stage -	330 cu.ft. - 536 cu.ft. - 723 cu.ft.	to cover	Mesa V				
A 3000 psi blind and p	y perforate a WP and 6000 pipe rams wil	psi test	double	gate previous provided in the	enter	equipped w	ıi+h
DITIONAL WELL NEE	DED FURSIANT TO N DATED JUNE 8, 1978		DER R-1970	11	NUV U	1979	

The E/2 of Section 8 is dedicated to this well: S. GEOLOGICAL SURVEY FARMINGTON, N. M.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout pr 24

TITLE	Drilling	Clerk	10-29-7	9
		17730	7	
	APPROVAL DATE		La & Control \	
MYMY B		YON	6 1979	
TITUE		Tour co	N COM	
		DI	ST. 3	
	TITLE		TITLE NOV OIL: CO	NOV 6 1979 OIL CON. CON. DIST. 3

See Instructions On Reverse Side

OIL CONSERVATION DIVISION

- STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 kevised 10-1-78

EL FASO NATURAL CAS COMPANY Described by the second of the second process of the second			All distances mus	it he from the cute	r boundaries of t	the Section.		
Unit Later Section Township 25% Roope Country San Juan Actual Festings Location of Well 120 Seet Imput the East February February	Operator EL PASO NAT	URAL GAS COMPA	ANY		ON	(SF-068	990)	! _
Active Postage Location of Well 120 test from the South line and 1560 test from the East Consum Lyrel size. Producing Postation Seed Sasin Dakota Continue Market Science Sasin Dakota 1. Outline the acreage dedicated to the subject well by colored pencil or hachter marks on the plat below. 2. If more than one lease is dedicated to the well, "ne 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 II 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, force-pooling, or otherwise) or until a non-standed nutil, climinating such interests, has been approved by the Commission. NOTE: THIS PLAT IS DELESTED TO SHOW MONED LOCATION. 10-9-79 Sec. 8 Out CON. CON. 10-9-79 CERTIFICATION 1 hereby certify that the information commanded herein to tree owners are in the second of the form and content of the form and the second of the form and content of the form of the second of the form of			,			County		
Acres 1920 Location of West. 1120	0	8	· ·			· ·	า	
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, "ne 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 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. NOTE: THIS PLAT IS REISSUAD TO SHOW MOVED LOCATION. Sec. 8 OIL CON. COM. 1 hereby certify that the infurnation contented herein Is true one complete to the Early on plantage and before. El Passo Natural Gae. Co. Occupany October 29, 1979 Date Thereby certify that the infurnation contented herein Is true one complete to the Early on plantage and before. El Passo Natural Gae. Co. October 29, 1979 Date Courses 1 hereby certify that the infurnation contented herein Is true one complete to the Early on plantage and before. El Passo Natural Gae. Co. October 29, 1979 Date Courses and correct on the Best of my knowledge and before the second series of each structure and correct on the Best of my knowledge and before the second series of each structure and correct on the Best of my knowledge and before the second series of each structure and correct on the Best of my knowledge and before the second series of each structure and correct on the Best of my knowledge and correct on the Best of my knowledge and before the second series and correct on the Best of my knowledge and before the second series.							<u> </u>	
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

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Multi-Point Surface Use Plan

Hudson #1E

- 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 San Juan River.
- 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, yucca and mormon tea growing. Deer and cattle 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

Operations Plan - Hudson #1E

I. Location: 1120'S, 1560'E, Section 8, T-29-N, R-12-W, San Juan County, NM

Field: Basin Dakota Elevation: 5652'GL

II. Geology:

7\	Formation T	longe	Currence	0-1- 31	M C	22721
А.	ronmacton 1	ops:		Ojo Alamo	Menefee	3310'
			Ojo Alamo	surface	Point Lookout	4030'
			Kirtland	350'	Gallup	5 312'
			Fruitland	1750'	Greenhorn	6064'
			Pic.Cliffs	s 1620'	Graneros	6112'
			Lewis	1785'	Dakota	6230'
			Mesa Verde	3160'	Total Depth	6470'

- 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
	12 1/4"	200'	8 5/8"	24.0# K-55
	7 7/8"	6470'	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 valve Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 4630' and tool for third stage at 1985'. 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: 6470' 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: 8.5/8" x 8" 2000 casing head, 8" 2000 x 6" 2000 xmas tree.

V. Cementing:

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

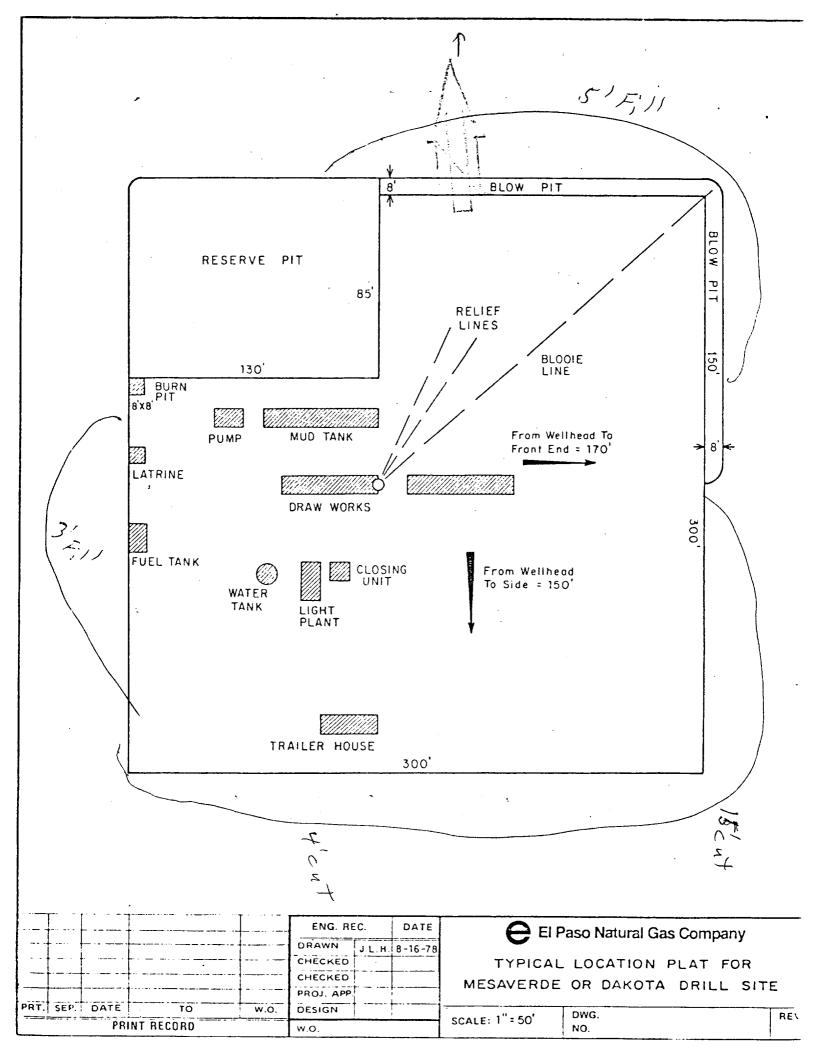
V. Cementing, cont'd.

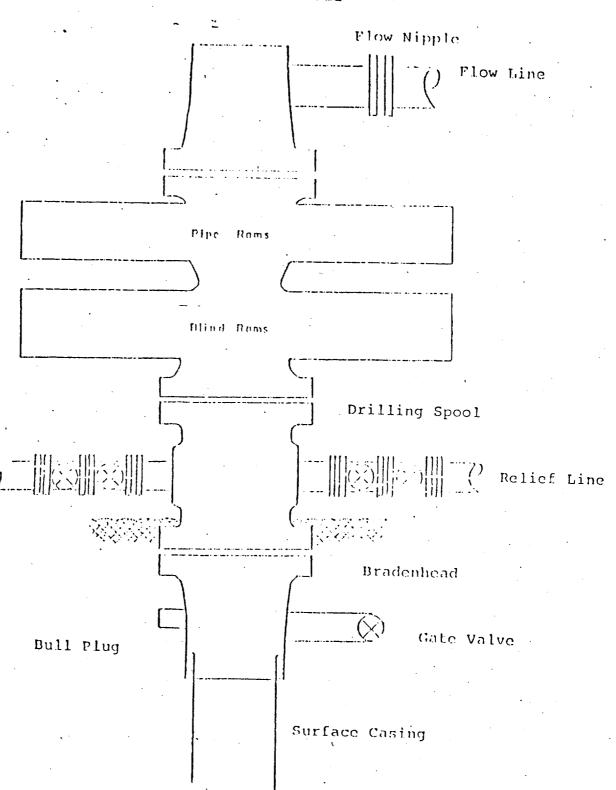
Production casing - $(7 7/8" \times 4 1/2")$

First stage - use 132 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 91 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (330 cu.ft. of slurry, 25% excess to cover the Gallup).

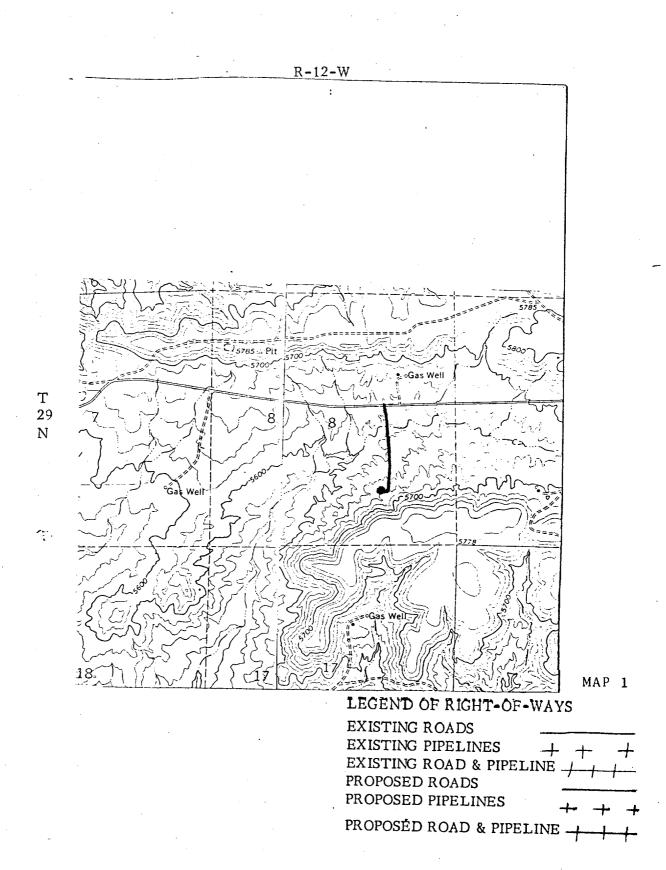
Second stage - circulate mud for 2 hours, then cement with 331 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (536 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 447 sks. Class "B" Pozmíx with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (723 cu.ft. of slurry, 60% excess to fill to top of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

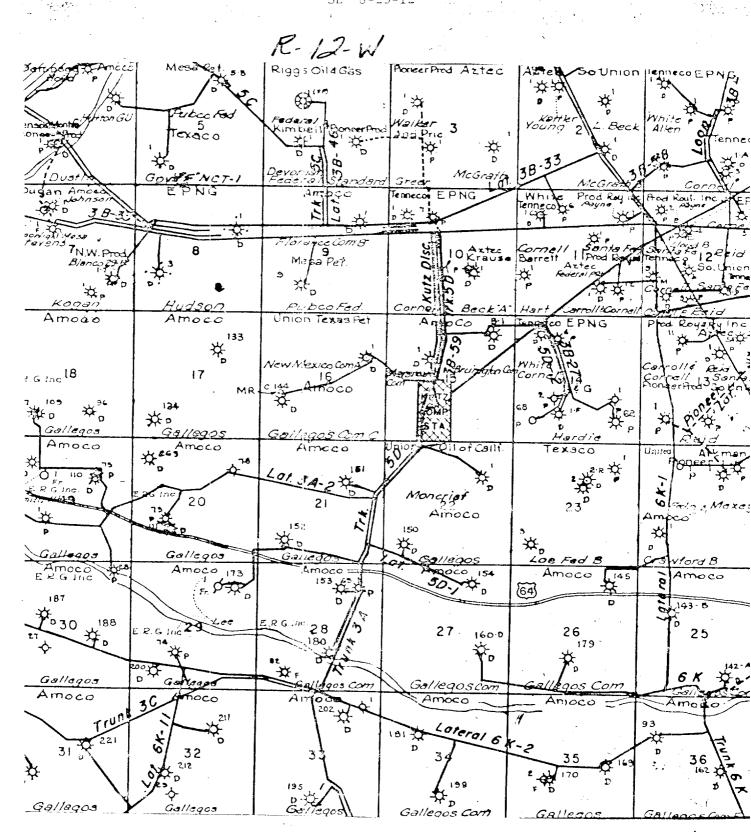




Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



El Paso Natural Gas Company Hudson # 1E SE 8-29-12



MAP $2 \simeq$