SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES
DEPARTMENT OF THE INTERIOR

30 - 045 - 23835 5. LEASE DESIGNATION AND SERIAL NO

	CEO! O	CICAL CHOV	-v				O. DERGE DESIGNATIO	AND SERIAL NO.
GEOLOGICAL SURVEY							SF 078103-B 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
APPLICATION	1 FOR PERMIT T	O DRILL, I	DEEP	EN, OR PL	<u>ug b</u>	<u>ACK </u>	t. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK		DEEDEN! [_	DI LI			7. UNIT AGREEMENT	NAME
DRILL X DEEPEN PLUG BACK D. TYPE OF WELL					Huerfano Unit			
OIL (G	AS ELL X OTHER			INGLE X	MULTIPI	LE []	8. FARM OR LEASE N	Unit
WELL W 2. NAME OF OPERATOR	ELL X OTHER			ONE LX	ZONE		Huerfano	Uni+
El Paso Na	atural Gas Co	mpanv					9. WELL NO.	OHIC
3. ADDRESS OF OPERATOR				,			283	-
PO Box 289	9, Farmington	, NM 874				\ \	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance wit	th any S	State requirement	s.*)		Basin Dak	ota .
)	790'S, 154	0'E					11. SEC., T., R., M., OR	R BLK.
At proposed prod. zon	e	,					Sec.35,T-	26-N,R-9-W
	same						NMPM	
	AND DIRECTION FROM NEAR			E *	\$ 350	EST PRIVE	12. COUNTY OR PARIS	H 13. STATE
	outh of Bloom	field, NN		3,5	- 2 4 March 19 - 18 March 20 M	35 TEMPE	San Juan	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r	7001	16. No	O. OF ACRES IN L	EASE		F ACRES ASSIGNED	1
PROPERTY OR LEASE 1 (Also to nearest drig	g. unit line, if any)	790 '		Unit			<i>E</i>	320.00
13. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,	20001	19. PE	CCAO	1	20. ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		3000'	<u> </u>	6640		Rotar		
6401 GL	ether DF, RT, GR, etc.)						22. APPROX. DATE V	WORK WILL START*
23.	F	PROPOSED CASH	NG ANI	CEMENTING	PROGRA	М		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEI	'TH	l	QUANTITY OF CEM	ENT
12 1/4"	8 5/8"	24.0#		200	t	165 0	u.ft.circ.	
7 7/8"	4 1/2"	10.5#&11.	6#	6640		1	cu.ft 3	
2nd stage 3rd stage	'- 407 cu.ft. - 516 cu.ft. - 411 cu.ft. ly perforate	to cover	r Me r Oj	sa Verde o Alamo	re tl	i ne Dak	ota format	ion.
blind and	i WP and 6000 pipe rams wi is dedicated.	.ll be use	t do ed f	uble gat or blow	out i	DCT (s. geolo	1. V 1 1-2-	with is well.
The E/2 of	f Section 35	is dedica	ated	to this	well	L.		-
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If the drill or deepen directions	proposal is to deep	pen or 1	olug back, give da	ata on pr	esent prod		
preventer program, if an		g.re primiti				measuree	vertical dep	The blowout
SIGNED .	9. Susco	TI3	TLE	Dril	ling	Clerk	DATE 10	-1-79
(This space for Fede	ral or State office use)							
PERMIT NO.				APPROVAL DATE _				
							•	
CONDITIONS OF APPROV		TID	TLE		······································		DATE	

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STATE OF NEW MEXICO LHERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Operator All distances must be for	chitte on MEXICO	87501	forni (**) kevised
EL PASO NAMEDO	Lease	of the Section.	
EL PASO NATURAL GAS COMPANY Juit Letter Section	1		Well No.
O or Township	HUERFANO UNIT		283
Actual Footage Location of Well:	9W	County	[(0)
790	711	San Juan	
round Level Elev. Productes 5	1540		
6401 Producing Formation Dakota	Pool fe	et from the East	line
1. Outling al	Basin Dakota	Dedi	
1. Outline the acreage dedicated to the subject we 2. If more than one lease is dedicated to the	Il by colon 1		320.00 - ,
2. If more than	by colored pencil	or hachure marks on the ale	3t below
interest and south)	outling	F	DCIOW.
2. If more than one lease is dedicated to the well, interest and royalty).3. If more than one lease force.	, outline each and ide	entify the ownership thereo	f (both as a
3. If more than one lease of life		•	- (both as to work
3. If more than one lease of different ownership is de dated by communitization, unitization, force-pooling	edicated to the wall	La	State of the state
unitization, force-pooling	g. etc?	have the interests of all o	wners been cons
Yes No If answer in "			S 2013(
If answer is "no" list the	consolidation	Unitization	- 1079
If answer is "no," list the owners and tract descripthis form if necessary.) No allowable will be assigned to the well until all informations.		crzacion	D 103
this form if necessary.)	ptions which have act	cually been con- 1:1	- 52W• /
No allowable will be assigned to the authority		deen consolidated. (Use reverse side
forced-pooling, or otherwise) or until a re-	nterests have been co	onsolidated ()	
No allowable will be assigned to the well until all in forced-pooling, or otherwise) or until a non-standard usion.	mit, eliminating such	interests bo-1	zation, unitizatio
		pprov	ved by the Commis
			
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·	1	best of my knowled	ge and belief
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		Drilling Cle	rk
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; × ×		October 1, 1	979
Sec.	Ì	Date	
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' K)	i	I hereby certify that	t the wall to
' KA 97	-078103-B	shown on this plat wo	s plate 16
N 25.	Come D		
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	1 1540'	under my supervision, is true and correct t	ys mode by me or
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	 	under my supervision, is true and correct the knowledge and belief. Date Surveyed Septembers and Registered Professionals	ys mode by me or and that the same to the best of my
	 	Date Surveyed September Single Conveyor Conveyo	ys made by me or and that the same o the best of my
	 	under my supervision, is true and correct the knowledge and belief. Date Surveyed Septembers and Registered Professionals	ys made by me or and that the same o the best of my



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Huerfano Unit: #283

- 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 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 - Huerfano Unit #283

I. Location: 790'S, 1540'E, Section 35, T-26-N, R-9-W, San Juan County, NM

Field: Basin Dakota Elevation: 6401'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Menefee	3639'
			Ojo Alamo	1096'	Point Lookout	4309'
			Kirtland	1253'	Gallup	5448'
			Fruitland	1704'	Greenhorn	6235 '
			Pic.Cliffs	s 1960'	Graneros	6286 '
			Lewis	2023'	Dakota	6415 '
			Mesa Verde	e 3494'	Total Depth	6640'

- 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	
		12 1/4"	2001	8 5/8"	24.0# K-55	
		7 7/8"	6640'	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 4909' and tool for third stage at 2223'. 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: 6640' 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" 2000 x 8 5/8" casing head with 8" x 4 1/2" casing hanger, 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.

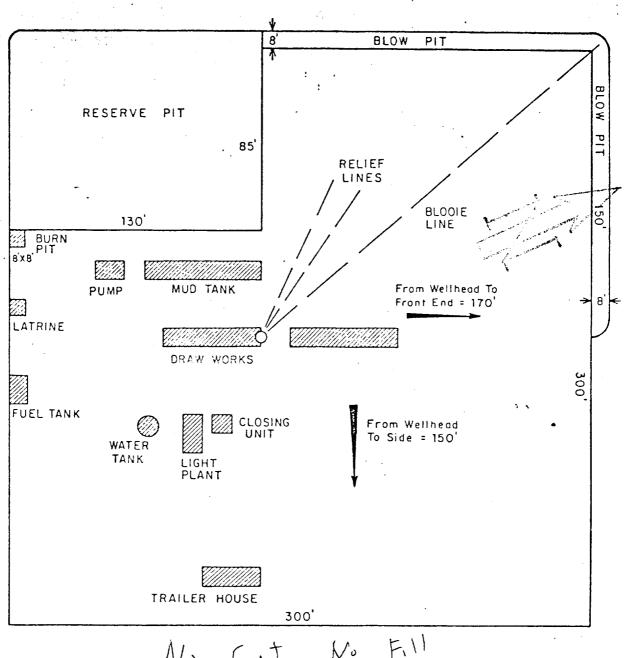
V. Cementing, cont'd.

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

First stage - use 190 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. (407 cu.ft. of slurry, 50% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 318 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (516 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 254 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (411 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.



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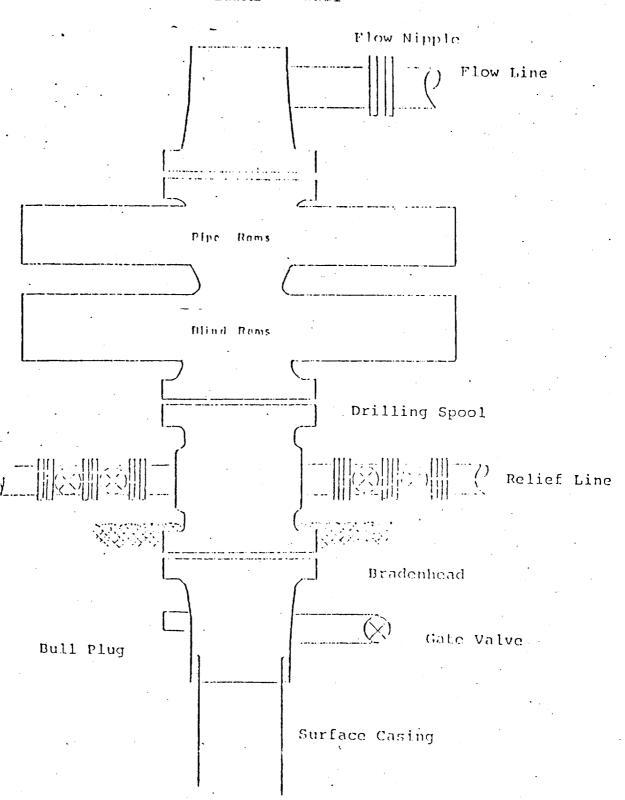
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El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

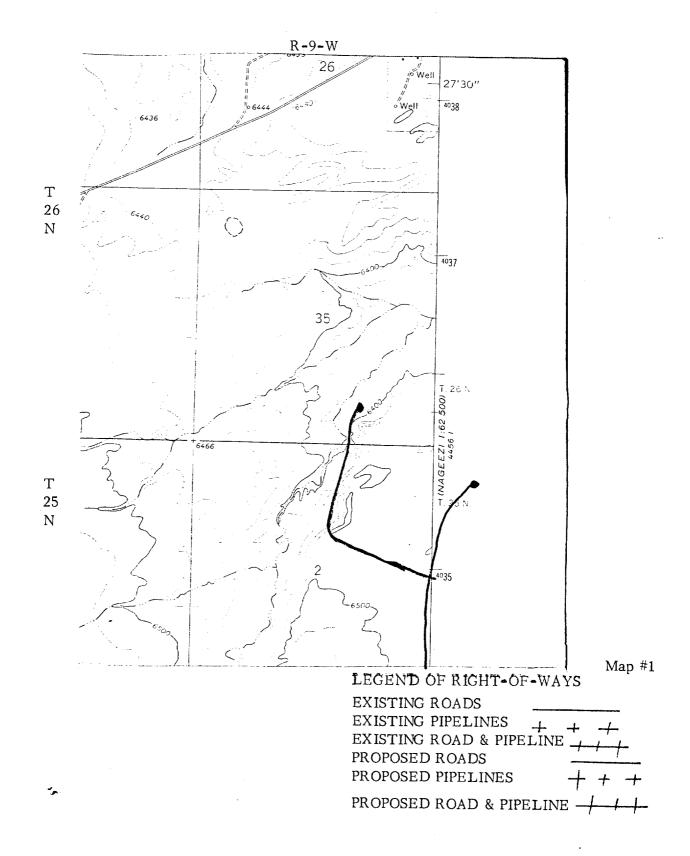
SCALE: 1"=50

DWG.



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 Huerfano Unit #283 SE 35-26-9



EL PASO NATURAL GAS COMPANY Huerfano Unit #283 SE 35-26-9

