SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

	DEPARTMENT	OF THE INTE	RIOR	ide)	36-645-	745-86
		ICAL SURVEY		-	5. LEASE DESIGNATION NM 03016	AND SERIAL NO.
APPLICATION			PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTE	C OR TRIBE NAME
1a. TYPE OF WORK		<i></i>	2, 1, OK 1200 B	- CI		
	L 🖪	DEEPEN 🗌	PLUG BAC	CK 🔲 🍴	7. UNIT AGREEMENT N	-
b. Type of well		:	SINGLE X MULTIP	LE C	Huerfano U	
2. NAME OF OPERATOR	LL A OTHER		ZONE LA ZONE		8. FARM OR LEASE NAT Huerfano U	
El Paso Na	atural Gas Co	mpany		ŀ	9. WELL NO.	
3. ADDRESS OF OPERATOR					284	
PO Box 289	9, Farmington	, NM 87401			10. FIELD AND POOL, C	R WILDCAT
4. LOCATION OF WELL (Rep. At surface			State requirements.*)		Basin Dako	
OK	1790'N, 16	20.E			11. SEC., T., R., M., OR I AND SURVEY OR AF SEC. II, T-2	BLK.
At proposed prod. zone		same			NMPM	25-N,R-9-W
14. DISTANCE IN MILES AN	D DIRECTION FROM NEARES		CE*		12. COUNTY OR PARISH	112 00.00
5 miles no	orth of Huerf	ano, NM		-	San Juan	NM
15. DISTANCE FROM PROPOS LOCATION TO NEAREST	ED*	- 16. N	O. OF ACRES IN LEASE	17. NO. OF	F ACRES ASSIGNED	
PROPERTY OR LEASE LIN (Also to nearest drig.	E, FT. unit line, if any)	1650 \2	80 unit? E	320:5	0.0 MELL	:
18. DISTANCE FROM PROPOS TO NEAREST WELL, DRI	SED LOCATION*		ROPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	
OR APPLIED FOR, ON THIS	LEASE, FT.	2500	6736 '	Rota	ry	•
21. ELEVATIONS (Show wheth	ner DF, RT, GR, etc.)				22. APPROX. DATE WO	RK WILL START*
23.						
	PRO	OPOSED CASING AN	D CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	T
12_1/4"	8 5/8"	24.0#	200'	165	cu.ft. circ.	to surfa
7 7/8"	4.1/2"	10.5#	6500'	1.56	PERM	
1 //8"	a Alfaches	11.6#	6736'	1502	Chirthy.	stages
THE HAL HEROLD IN 17113",	204 ou ft	to go::ox ('. 'allum	This &	San This Cal	in a second of the
	- 384 cu.ft. - 644 cu.ft.			a paral	20 30	15 ¹³ 년(ā 290.
	- 474 cu.ft.				CON 190	200,
Jiu Deage	171 04.10.	20 00 00 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	67 m	_
Selective	ly perforate	and sandwat	er fracture t	he N al	kota format:	ion.
			louble gate pr			
blind and	pipe rams wi	II be used	for blow out	preve	ntion on the	is well.
This are	is dedicated.					
IIII gas	is dedicated.					· •
The E/2 o	f Section 11	is dedicate	ed to this wel	1.		
,						
				10.		
IN ABOVE SPACE DESCRIBE P	ROPOSED PROGRAM: If pro	posal is to deepen or p	plug back, give data on pre	sent produc	ctive zone and proposed	new productive
zone. If proposal is to dr. preventer program, if any.	ill or deepen directionally,	, give pertinent data (on subsurface locations and	l measured	and true vertical depth	s. Give blowout
24.		<u> </u>			<u> </u>	
SIGNED Sagar	2 Bradle	.11	Drilling	Clor	ν 0 <u>-</u> 8	- 80
		TITLE	DITITIO	CTET	DATE 3-0	-00
(This space for Federal	or State office use)		,			
PERMIT NO.			APPROVAL DATE		· ,	. •
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CONDITIONS OF APPROVED	LEANY 2 2 A	TITLE			DATE	•
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TOP	\checkmark				:	
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ial	7.1	"See Instructions	On Reverse Side			
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		f 1				

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ERGY AND MINERALS DEPARTMENT

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

form C-107 keylsed 10-1-7

All distances must be from the cuter houndaries of the Section.									
Operator	· · · · · · · · · · · · · · · · · · ·			Lease					Well No.
EL PASO NATURAL GAS COMPANY			LHU	HUERFANO UNIT		(NM-03016)		284	
							County		
	1	25N			9W	Sa	n Juan		
Actual Footage Location (of Well:								
	,	rth	line and	16	50 fee	from the	East		line
Ground Level Elev:	Producing For	mation		Pool	_				ited Acreage:
6521	Dakota			Ba	sin Dakota			3	20.00 Acres
Outline the ac If more than of interest and ro	ne lease is		-		-				t below.
dated by commi	nnitization, we have the mo," list the	initization nswer is "	, force-pooli	ing. etc:	olidation	Unitiz	ation		(Use reverse side of
No allowable w	ill be assign								tization, unitization, oved by the Commis-
	-	Ŋ				K		CER	RTIFICATION
	 			1790'	1 16501		Name Dri Position E1 Company	herein is my know (234/ illin	that the information com- true and complete to the viedge and belief. Stanfalled ag Clerk Natural Gas
	1	K			1	<i>\begin{align*} \begin{align*} \begi</i>	Ser	emb	er 8, 1980
	 	K		313.4	1-03016	J.	Dog	`	
	. Se	c.		IMM	1-02010				
			11				shown notes under r is true	on this p of actua ny super	fy that the well location old was pictied from field is surveys made by me or vision, and that the some orrect to the best of my belief.
		le: l''=					Registere and L	y 25- ed Profes and Surv	standing in a standard standar

EIPEED NATURAL GAS

P.O. Bescheller, NEWS St. O. BZZE FARMUGICEL NEWS St. O. BZZE PHONE: 1971 Changas

, <u>, </u>	
Well Name Huer fano Unit # 284	
Location NE 11 25-9	
Formation DK	
We, the undersigned, have inspected this location	
Jane, Marc Imspected this location	i and load.
<u> </u>	
U. S. Forest Service	Date .
Rute W. Henderson	7-30-80
Archaeologist	Date
Bureau of Indian Affairs Representative	
r and of findian Affairs Representative	Date
Knos Mark	7/30/80
Bureau of Land Management Representative	Date
andy Attems	7/2/6
J. S Geological Survey Representative - AGREES	Date
TO THE FOOTAGE LOCATION OF THIS WELL.	
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 Huerfano Unit #284

- 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, sheep and horses are seen occasionally 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 Huerfano Unit #284

I. Location: 1790'N, 1650'E, Section 11, T-25-N, R-9-W, San Juan County, NM

Field: Basin Dakota Elevation: 6521'GL

II. Geology:

A.	Formation Top	s: Surface	Nacimiento	Menefee	3654'
		Ojo Alamo	1148'	Pt.Lookout	4385'
		Kirtland	1329'	Gallup	5532 '
		Fruitland	1784'	Greenhorn	6320 '
		Pic.Cliff:	s 2032'	Graneros	6371 '
		Lewis	2088	Dakota	6500 '
		Mesa Verd	e 3323 '	Total Depth	6736 '

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" 7 7/8"	200 ' 6500 '	8 5/8" 4 1/2"	24.0# K-55 10.5# K-55
		7 7/8"	6736 '	4 1/2"	11.6# 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 4985' and tool for third stage at 2188'. 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: 6736' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and 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. 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.

Operations Plan - Huerfano Unit #284

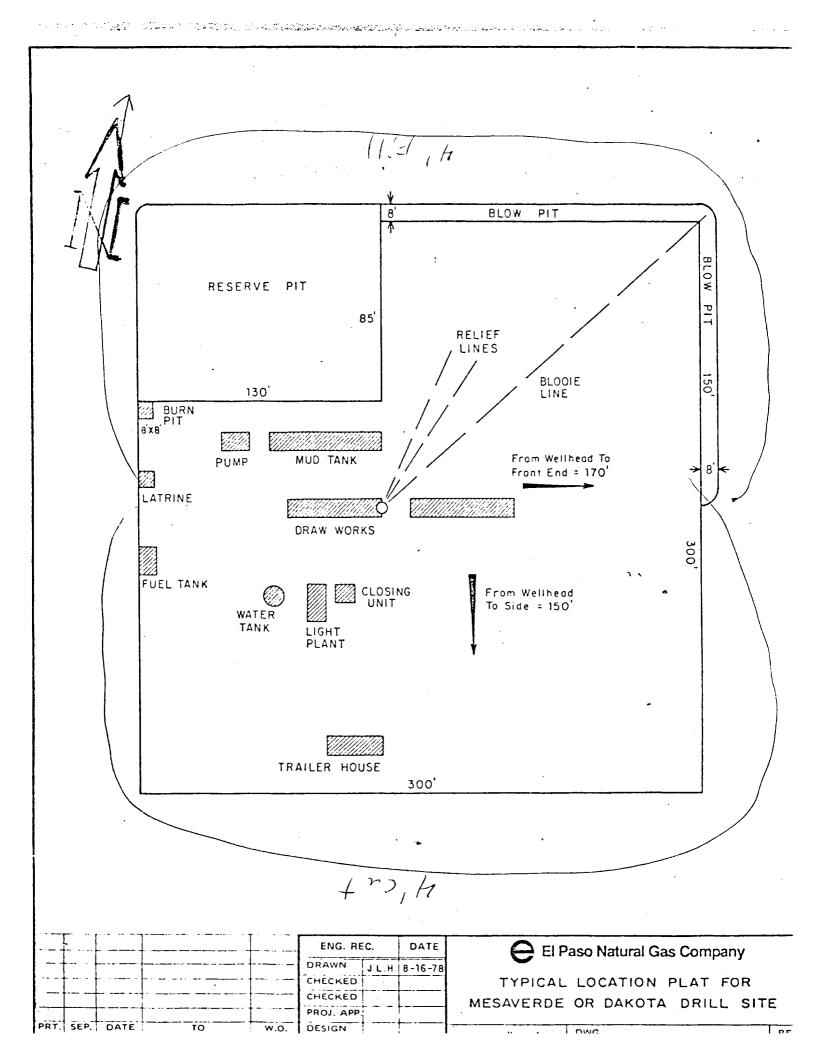
V. Cementing, cont'd.

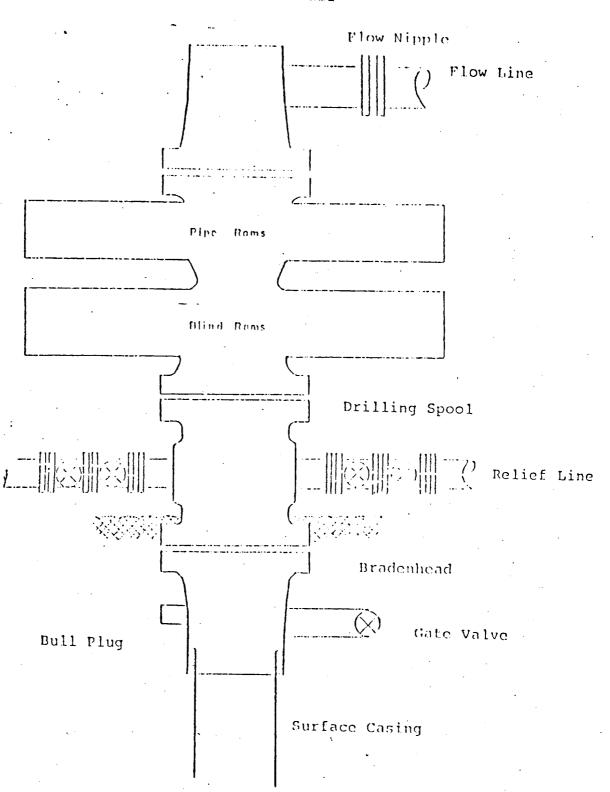
Production casing $(7 7/8" \times 4 1/2")$

First stage - use 159 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. (384 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2.5 hours, then cement with 397 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons water per sack (644 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

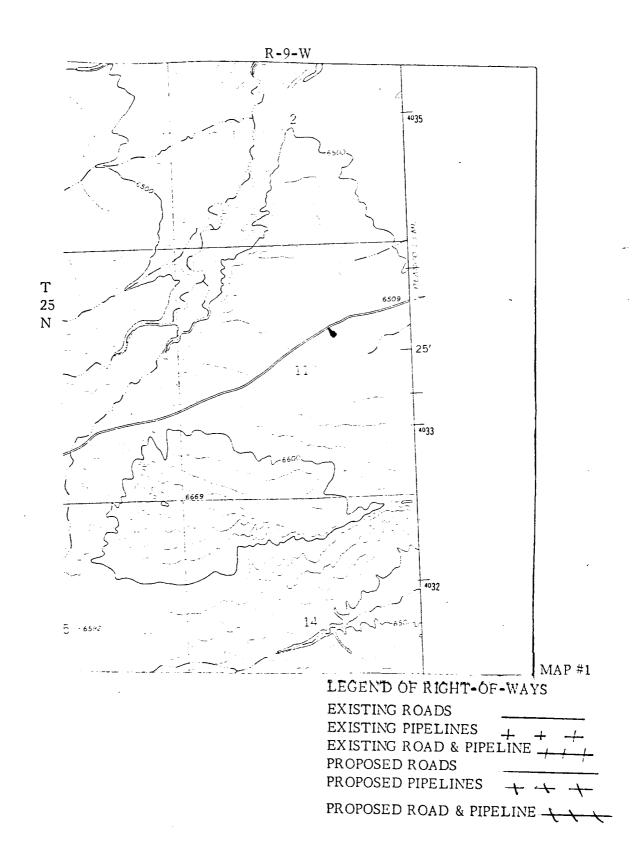
Third stage - circulate mud for 2.5 hours, then cement using 292 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (474 cu.ft. of slurry, 100% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.





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 CAS COMPANY Huerfano Unit #284 NE 11-25-9



EL PASO NATURAL GAS COMPANY Huerfano Unit #284 NE 11-25-9

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R-9-W

MAP #2
Proposed Location •