Form 3160-3 (November 1983) (formerly 9-331C)

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

30-045-26242

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

Expires August 31, 1985

FARMINISTON PLESCUPICE AREA

	DEPARTMENT	-					5. LEASE DESIGNATION	AND SERIAL NO.	
4 201 16 4 710 N		LAND MANAG					SF 078518A 6. IF INDIAN, ALLOTTEE	OR MATTER WATER	_
1a. TYPE OF WORK	N FOR PERMIT T	O DRILL, D	EEPI	EN, OR I	LUG B	ACK	- IS INDIAN, ALLOTTED	OR TRIBE NAME	
	LL X	DEEPEN [		PL	UG BAC	K 🗆	7. UNIT AGREEMENT NA	ME	
b. TYPE OF WELL OIL GA	ıs "厂		81	NGLE -	MULTIP	,E	Huerfano U 8. FARM OR LEASE NAM	nit	_
2. NAME OF OPERATOR	ELL X OTHER		Z	NE X	ZONE		-		
El Paso I	Natural Gas (	Company					Huerfano U 9. WELL NO.	nit	
3. ADDRESS OF OPERATOR							137E		
PO Box 4:	289, Farmingt	on, NM 8	749	9 Itata maguinam	ontart =		10. FIELD AND POOL, O	R WILDCAT	_
4. LOCATION OF WELL (Real At surface 810 N,	1140'F	R accordance with	E	CETT	TE D		Basin Dako		_
At proposed prod. zone		• -	-	rn a 0 10	25		Sec. 31, T-2	ea Ea	T <sub>A</sub> T
				EB 28 19		J.T	NMPM	·	77
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST	REFIE	LAND MA	MAGEMEN		12. COUNTY OR PARISH	13. STATE	_
15. DISTANCE FROM PROPO				NM of acres in	LEASE	17. NO.	San Juan OF ACRES ASSIGNED	l NM	_
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig	INE, FT. . unit line, if any 810			Unit		тот	THIS WELL	/320.00	
			19. PH	OPOSED DEPTH		20. ROTA	ARY OR CABLE TOOLS		_
			****	676			Rotary		_
21. ELEVATIONS (Show whe 6575 GL		BJECT TO COMPL					22. APPROX. DATE WOI	kk WILL START*	
23.		ROFBEL REQUIRE					his action is subject to		_
and or your		· · · · · · · · · · · · · · · · · · ·				··· a	ppeal pursuant to 30 CF		_
12 1/4"	8 5/8"	WEIGHT PER FO	<b>OT</b>	SETTING		1.65	QUANTITY OF CEMEN		_
7 7/8"	4 1/2"	24.0# 10.5#&	11.	20 5# 676			cu.ft.circu		_
2nd stage 3rd stage Selective A 3000 ps blind and This gas	si WP and 600 d pipe rams w is dedicated of Section 31	<ul> <li>to cove</li> <li>to cove</li> <li>and sand</li> <li>psi testill be use</li> <li>is dedicated</li> </ul>	r Mer Ogwated to detect the detect to detect the detect to detect the detect	esa Vere jo Alamo cer frac ouble ga for blow	cture ate pr v out	event preve	er equipped on this MAR 12	with swell.  WE 1985	
24. SIGNED JAJA (This space for Feder	irill or deepen directiona		data o	n subsurface l	lling	d measure	ed and true vertical depth		
PERMIT NO.				MOVAD DAI	<u> </u>	4	MAR 0 8 1985		-
APPROVED BYCONDITIONS OF APPROV	AL, IF ANY:	TITE		MOCC			DATE		-

\*See Instructions On Reverse Side

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

P. O. UOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107

All distances must be from the cuter boundaries of the Section.

Operator		<del> </del>	<del></del>	Legse			<del></del>	Time 11 section 1
EL PASO NATURAL GAS COMPANY						170510	Well No.	
Unit Letter			Range County		)78518-A	137E		
_ A ·	31	26	N	ŀ	9W	San	Juan	
Actual Footage Loc	ation of Well:	·		- <del></del>	<u> </u>		0 4411	
810		North	line and	114	00	feet from the	East	line
Ground Level Elev:	Producing For			Pool				Dedicated Acreage: 320.00
6575	Dakot	a	· · · · · · · · · · · · · · · · · · ·	Bas	in Dakota	a		Acres
1. Outline th	e acreage dedica	ited to the	subject w	ell by o	colored pen	cil or hachu	re marks on	the plat below
								•
2. If more th	nan one lease is	dedicated	l to the we	ll, outli	ne each and	l identify th	e ownership	thereof (both as to working
interest a	nd royalty).				••	·	•	
2 16 1		1.00		• •.			•.	
3. If more that	an one lease of d	litterent or	wnership is	dedicat	ed to the w	ell, have th	e interests	of all owners been consoli-
dated by c	communitization,	unitization	, torce-pool	ing. etc	?	•		
X Yes	□ No If a	ngwer ig <sup>64</sup>	'yes," type	of cons	didation	•	IIm i i i	m = 4 ± = ==
			yes, type	or const	muation			zation
If answer	is "no," list the	owners an	d tract des	cription:	s which hav	e actually	heen consol	idated. (Use reverse side of
this form i	f necessary.)							dated. (Ose leverse side of
No allowai	ble will be assign	ed to the v	well until al	ll intere	sts have he	en consolio	lated (by c	ommunitization, unitization,
forced-poo	ling, or otherwise	or until a	non-standa	rd unit,	eliminating	such intere	ests, has be	en approved by the Commis-
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BUREAU OF	LAND WARREN	***			1	• ]		
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	IL CON. D	iV.  ˈ	•		1		1 1 1 16	d Professional Engineer
	IDIST. 3		•		1		and	and Surveyor
}	1	],	<u> </u>		1		1 OR	at Kerden

# Operations Plan EPNG Huerfano Unit #137E

I. Location: 810'N, 1140'E, Sec.31, T-26-N, R- 9-W, San Juan Co., NM

Field: Basin Dakota Elevation: 6575'GL

### II. Geology:

Α.	Formation Tops:	Surface Ojo Alamo Kirtland Fruitland Pic.Cliffs	Nacimiento 1110' 1260' 1745' 2030'	Menefee Point Lookout Gallup Greenhorn Graneros	5580' 6390' 6440'
		Lewis	2120'	Dakota	6550'
		Mesa Verde	3590 <b>'</b>	Total Depth	6765'

- B. Logging Program: GR-Ind.and GR-Density at Total Depth.
- C. Coring Program: 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"	200'	8 5/8"	24.0#K-55
		7 7/8"	6500 <b>'</b>	4 1/2"	10.5#K-55
		7 7/8 <b>"</b>	6765 <b>'</b>	4 1/2"	11.6#K-55

B. Float Equipment: 8 5/8" surface casing - Texas pattern 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 5040' and tool for third stage at 2220'. 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: 6765' 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. 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 hrs. Test to 600#/30 minutes.

Operations Plan -Huerfano Unit #137E

## V. Cementing, cont'd.

Production casing ( 7 7/8" x 4 1/2") -

First stage - use 150 sks. 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. (380 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 345 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride, and 8.3 gallons water per sack (559 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

Third stage - circulate mud for 2.5 hours, then cement using 310 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (502 cu.ft. of slurry, 100% excess to cover Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

# Multi-Point Surface Use Plan Huerfano Unit #137E

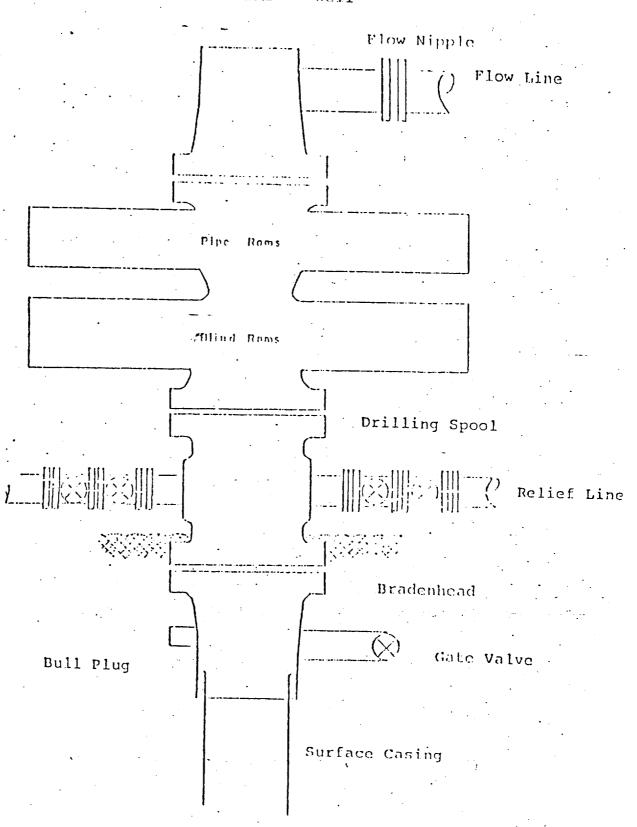
- 1. Existing Roads Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duraction of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the 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 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 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, will be provided for human waste.

7. cont'd.

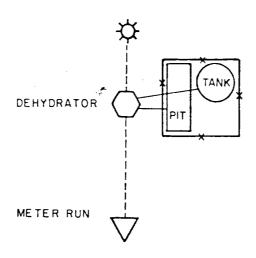
- If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or air strips 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 operations 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- Terrain is sage flats with sage and rabbit brush growing. Cattle, sheep, deer and rabbits are occasionally seen on the proposed project site.
- 12. Operators Representative D. C. Walker, Post Office Box 4289, Farmington, NM 87499.
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Project Drilling Engineer



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.



					ENG. REC.	DATE
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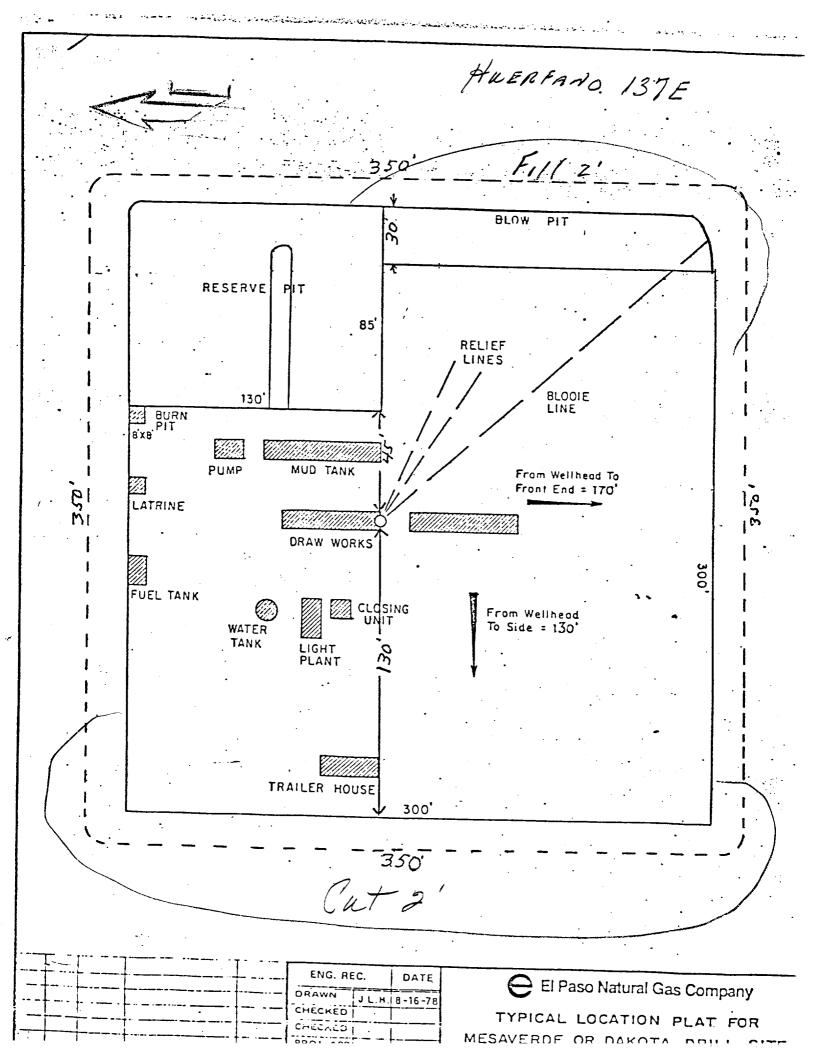


Anticipated Production Facilities For Mesaverde or Dakota Well

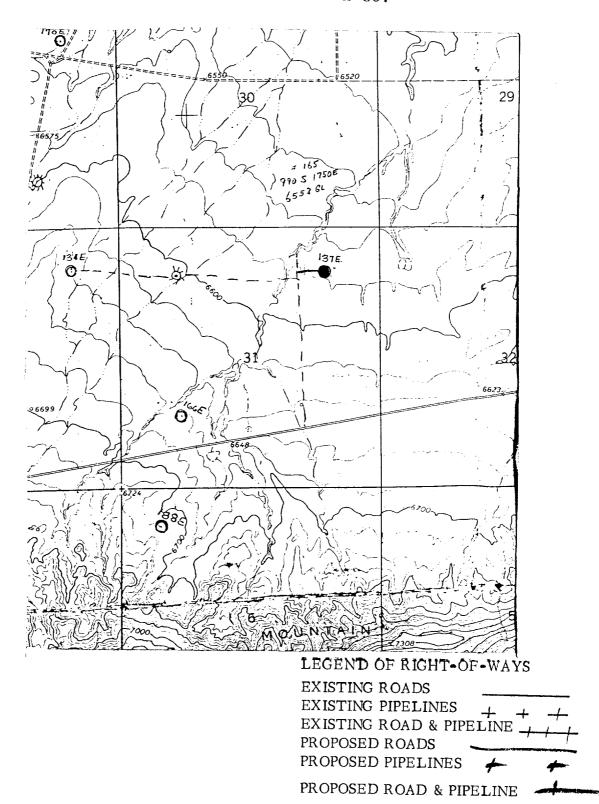
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El Paso Natural Gas Co. Huerfano Unit #137E (Dk) NE 31-26-9, San Juan Co.



El Paso Natural Gas Co. Huerfano Unit #137E (Dk) NE 31-26-9, San Juan Co.

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