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

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved.

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DEPARTMENT	OF	THE	INTERIOR

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BUREAU OF LAND MANAGEMENT				SF 079231		
_ APPLICATIO	n for permit	TO DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTI	CE OR TRIBE NAME
IA. TYPE OF WORK			-	Di telt	•	
b. TYPE OF WELL		DEEPEN [PLUG BA	ACK 🗌	7. UNIT AGREEMENT	
	VELL X OTHER		SINGLE V MULT	VDI -	Huerfano (
. NAME OF OPERATOR	VELL X OTHER		ZONE X MULT		6. FARM OR LEASE NA	
Fl Dago	Natural Can	Company			Huerfano (Jnit
ADDRESS OF OPERATOR	Natural Gas	Company			9. WELL NO.	
PO Box 4	289. Farming	iton. NM 87	7499		188E	-
LOCATION OF WELL (R	eport location clearly a	id in accordance with	7499 any State requirements.*)		Basin Dako	
	790'W				11. SEC., T., R., M., OR	RLE
At proposed prod. zor			RECEIV		Sec. 6, T-2	25-N,R- 9
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20 miles DI DISTANCE FROM PROPO	: South of Bl	oomfield, N	M MANUNCHIANTAL Unit	,	San Juan	NM
LOCATION TO NEADER		1	AV RECACE THE TREE BY	- JA-NO. 0	OF ACRES ASSIGNED HIS WELL	'
(Also to nearest drig	INE, FT. 3. unit line, if an 7,90			1011	dis wall	j.√325 . 48
S. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION* RILLING, COMPLETED, 18 LEASE, FT. 2640	1	9. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	/
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6719'GL	ether Dr. RI, GR, etc.)	SOBJECT TO COME	LIANCE WITH ATTACHED	-	22. APPROX. DATE WO	RK WILL START
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- <u> </u>		PROPOSED CASING	AND CEMENTING PROGR	CZIMI	his action is subject to	
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(This space for Federa	al or State office use)			- A	KAKOVEL	
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PERMIT NO.			APPROVAL DATE	-		
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CONDITIONS OF APPROVA		TITLE _			MAR 8 1985	
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*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 Revised 10-1

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

Letter ASO NATURAL GAS COMPANY UNIT Letter Session Township Date of Mult TOO feet from the North Inse and 790 feet from the Dakota Acree 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, outline 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 \sum No If answer is "yes," type of consolidation Unitization 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-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained been its two and complete to the East By year of composity to the certify that the information contained been failed from field NEW I 2 DES OIL CON. DIV. DIST. 3 Cotober 17, 1984 Date Outcoder 18, 1985	Operator			Lease		Well No.	
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Sec.	1 1	Section	Township				
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				1	Fred	B. Kerr Jr.	

Operations Plan EPNG Huerfano Unit #188E

I. Location: 790'N, 790'W, Sec. 6, T-25-N, R- 9-W, San Juan Co., NM

Field: Basin Dakota Elevation: 6719'GL

II. Geology:

Ojo Alamo 119 Kirtland 136 Fruitland 189 Pic.Cliffs 210 Lewis 219 Mesa Verde 367	60' Gallup 5645' 95' Greenhorn 6475' 00' Graneros 6529' 90' Dakota 6630'
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- 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 12 1/4" 7 7/8" 7 7/8"	<u>Depth</u> 200' 6500' 6805'	Csg.Size 8 5/8" 4 1/2" 4 1/2"	Wt.&Grade 24.0#K-55 10.5#K-55 11.6#K-55
		•	0005	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 5095' and tool for third stage at 2290'. 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: 6805' 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 #188E

V. Cementing, cont'd.

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

First stage - use 145 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. (372 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 340 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride, and 8.3 gallons water per sack (550 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 #188E

- 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.

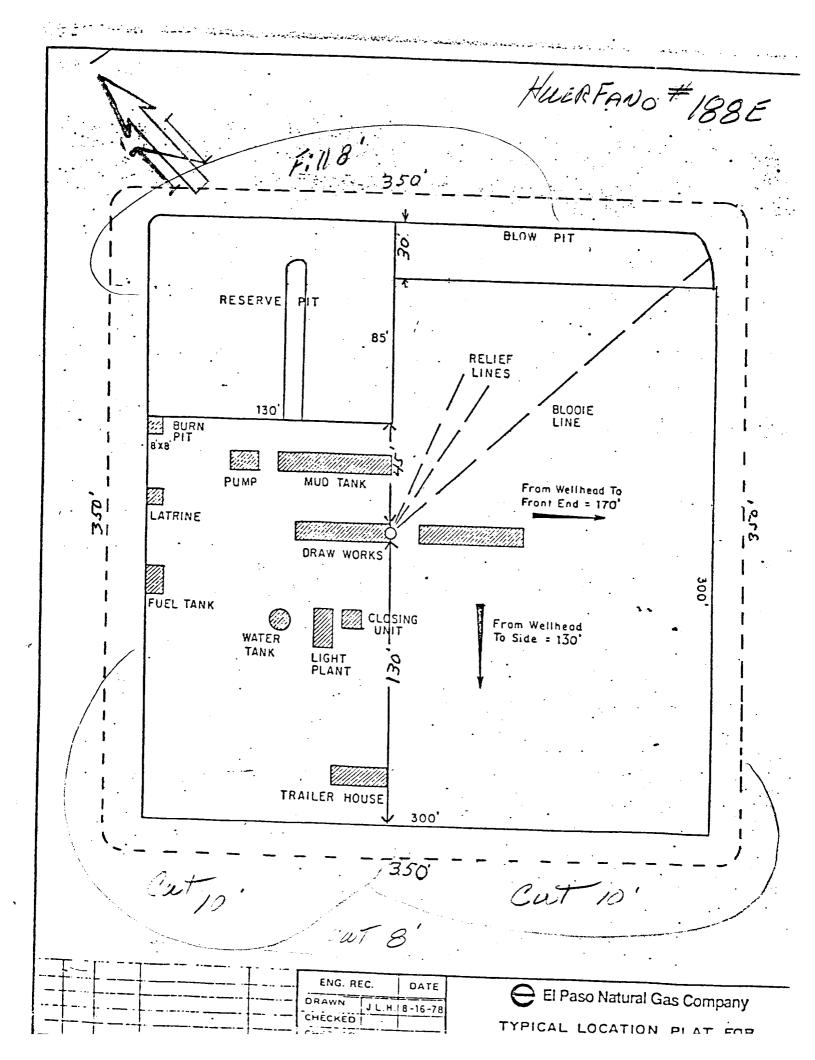
7. cont'd.

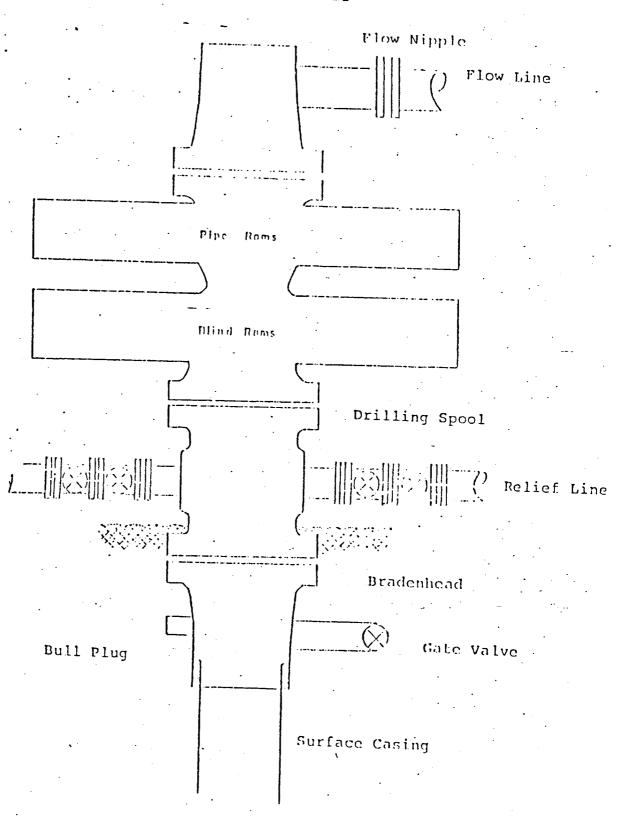
- If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying 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.
- Wellsite Layout Please refer to the attached Plat No. 1. 9.
- 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.
- Operators Representative D. C. Walker, Post Office Box 4289, 12. Farmington, NM 87499.
- 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.

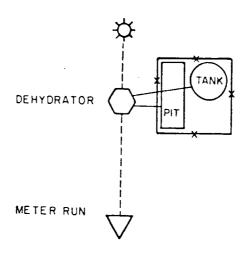
Drilling

13. Certification -





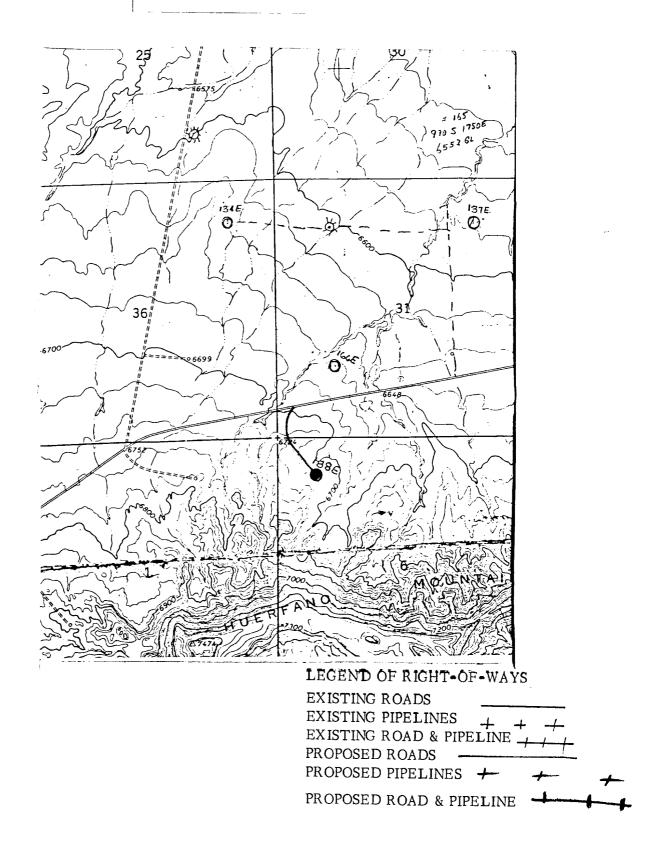
Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



 					
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Anticipated Production Facilities For Mesaverde or Dakota Well



El Paso Natural Gas Co. Huerfano Unit #188E (Dk) NW 6-25-9, San Juan Co.

FPNG 20 EPNG	64-		EPNG	4 EPNG
Huerlano 5	4 0	3	2	
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Huerfano Huerfano Consolidated R.L.Bayless				Hos con Neg Begs
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APIC 20Brannon	Petro Corporter	22	23	24 Maga
Mills Blanco Fed	Musi Ridman Food Brannon	Petro Corp of Tex	EPNG	Vye
Solidated 2 ERG nc Brannon 1	2010 Federal a8 1 28	D D C Nessco		
29 Fed 29	1 28	G Nessco Ordinan Feat 7	26	25
Jugan Prod 231	Gardner	Mobil Rudman	Hostein Yazza	
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