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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SEP 22 PM 1:50 20-045-28998

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	APPL	ICATION FOR PERMIT TO DRILL, DEEPEN	COR PLUG BACK, NM
1a.	Type of Work		5. Lease Number
4.	DRILL		SF-078000A
1b.	Type of Well GAS		6. If Indian, All. or Tribe
2.	Operator MCDIDIA		7. Unit Agreement Name
	MERIDIA	45.38	Huerfano Unit /
3.	Address & Phone		8. Farm or Lease Name Huerfano Unit 7/39
	(505) 326-9	700	9. Well Number 506
4.	Location of Well		10. Field, Pool, Wildcat 7/629
	1255'FNL, 141	.0'FEL	Basin Fruitland Coal
	Latitude 36 ⁰	27' 47", Longitude 107° 48' 30"	11. Sec., Twn, Rge, Mer. B Sec 29, T-26-N, R-9-W NMPM
14.		from Nearest Town erfano Trading Post	12. County 13. State San Juan NM
15.	Distance from Pro	posed Location to Nearest Property or Lease L	line
16.	1255'	URILLING OPERATIONS AUTHORIZED ARE	
10,	Acres in Lease	SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	17. Acres Assigned to Well 320 E/2
18.	Distance from Pro	posed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
19.	Proposed Depth 2370'	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, F7 6522 ' GR	「, GR, Etc.)	22. Approx. Date Work will Start 4th quarter 1993
23.	Proposed Casing See Operati	and Cementing Program ons Plan attached	
24.	Authorized by:	egional Drilling Engineer 🔿 📜 🕻	
PERM	IIT NO.		NST. 3
	OVED BY		
			APPROVED_
Archa	eological Report to I	oe submitted	AS AMENDED

Threatened and Endangered Species Report submitted 09-15-93 NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

OCT 07 1993

Scheme to Appropriate District Office State Lease - 4 courses Fee Lease - 3 copies

State of New Mexico Energy, Minerais and Natural Resources Department

RECEI**VED 1-1-1-1**BLM

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Sama Fe, New Mexico 87504-2088

93 9TP 22 PM 1:50

DISTRICT II P.O. Drawer DD, Arlessa, NM \$8210

CTO FARMELIGACIN, NIM

DISTRICT III 1000 Rio Besson Rd., Amer., NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

OUTSICE				//CEL 00 110					
Meridi	an Oil	Inc.			Hue	erfano Un	nit		Well No. 506
B Se	29	Town	North	R	O W			County	7
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OPERATIONS PLAN

Well Name:

Huerfano Unit #506

Location:

1255'FNL, 1410'FEL, Section 29, T-26-N, R-9-W

San Juan County, New Mexico Latitude 36° 27' 47", Longitude 107° 48' 30"

Formation:

Basin Fruitland Coal

Elevation:

6522'GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1170'	
Ojo Alamo	1170'	1318'	aquifer
Kirtland	1318'	1763'	-
Fruitland	1763'	2050'	
Fruitland Coal Top	1879'	2038'	gas & salt water
Pictured Cliffs	2050'	2362'	•
Lewis	2362'		
Total Depth	2370'		

Logging Program: Mud logs from 1750' to Total Depth.

Dens/Neut/GL; Dens/GR; Micro/GR: 1850-TD

Ind/GR/SP: surface-TD

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200-2370'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4" 7 7/8"	0 - 200' 0 - 2370'	8 5/8" 4 1/2"	24.0# 10.5#	
Tubing Program:	0 - 2370'	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 1318'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 1318'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

Cementing:

8 5/8" surface casing - cement with 235 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (298 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - Lead w/543 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (1080 cu.ft. of slurry, 125% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

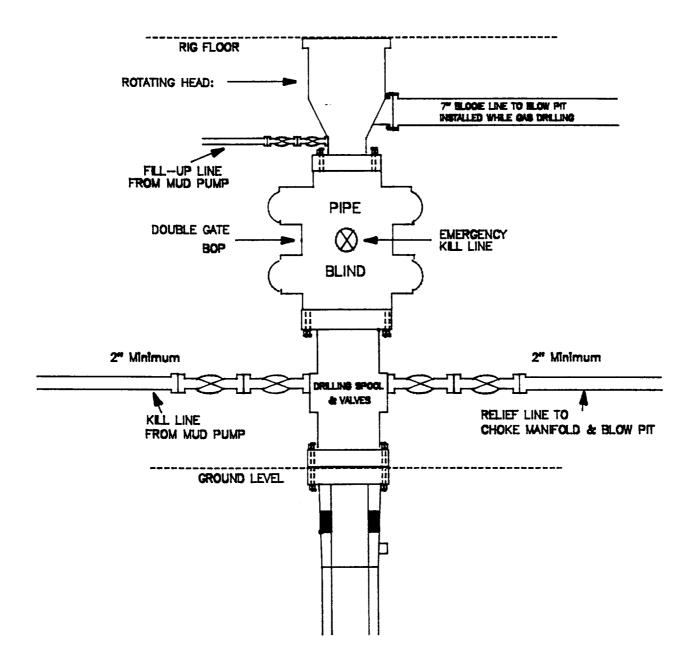
Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is 300 psi.
- * This gas is dedicated.
- * The east half of the section is dedicated to this well.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

MERIDIAN OIL INC.

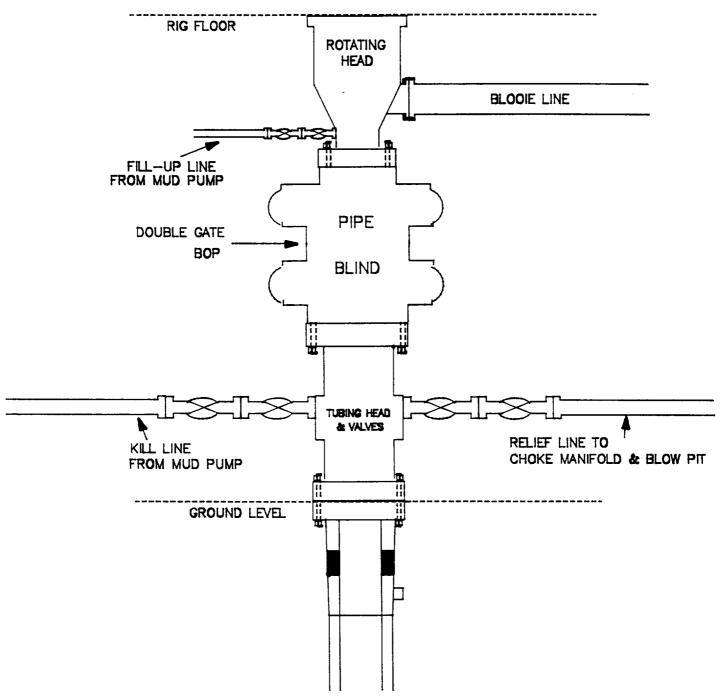
BOP Configuration 2M psi SYSTEM



11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure/or greater.

MERIDIAN OIL INC.

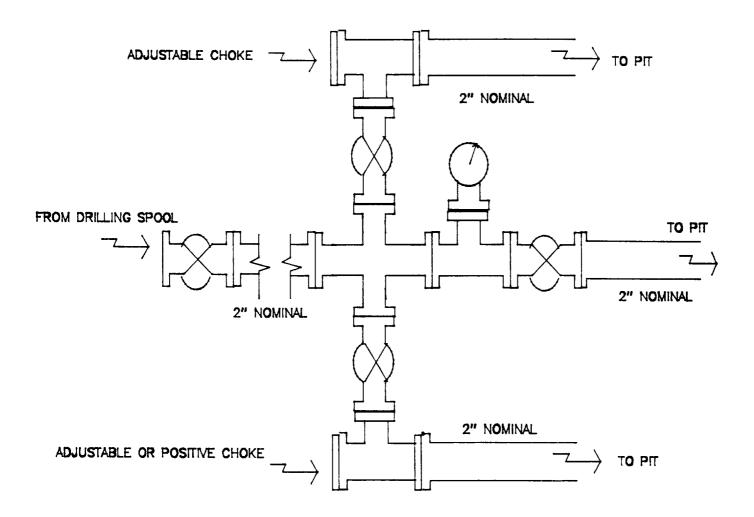
BOP Configuration 2M psi SYSTEM



Minimum BOP installation for Completion operations. $7 \, 1/16$ " Bore (6" Nominal), 3000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

MERIDIAN OIL INC.

Choke Manifold Configuration 2M psi SYSTEM



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000psi working pressure equipment with two chokes.



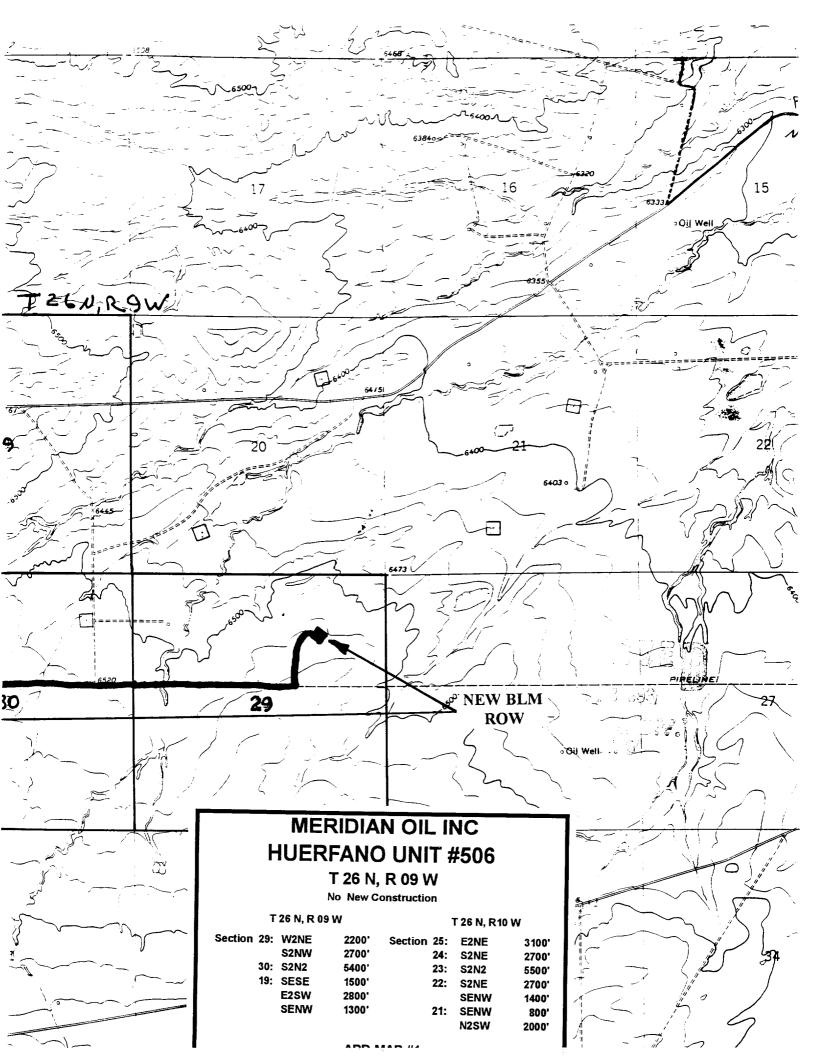
- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- 2. Planned Access Road Refer to Map No. 1. None required.
- 3. Location of Existing Wells Refer to Map No. 1A.
- 4. Location of Existing and/or Proposed Facilities if Well is Productive
 - a. On the Well Pad Refer to Plat No. 1, anticipated production facilities plat.
 - b. Off the Well Pad Anticipated facilities off the well pad will be applied for as required.
- 5. Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained from Huerfano Unit Water Well #2 located SE Section 25, T-26-N, R-10-W, New Mexico.
- 6. Source of Construction Materials If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If 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 waste materials into the watershed. All reserve pits will be lined with 12 mil bio-degradable plastic liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
- 8. Ancillary Facilities None anticipated.
- 9. Wellsite Layout Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

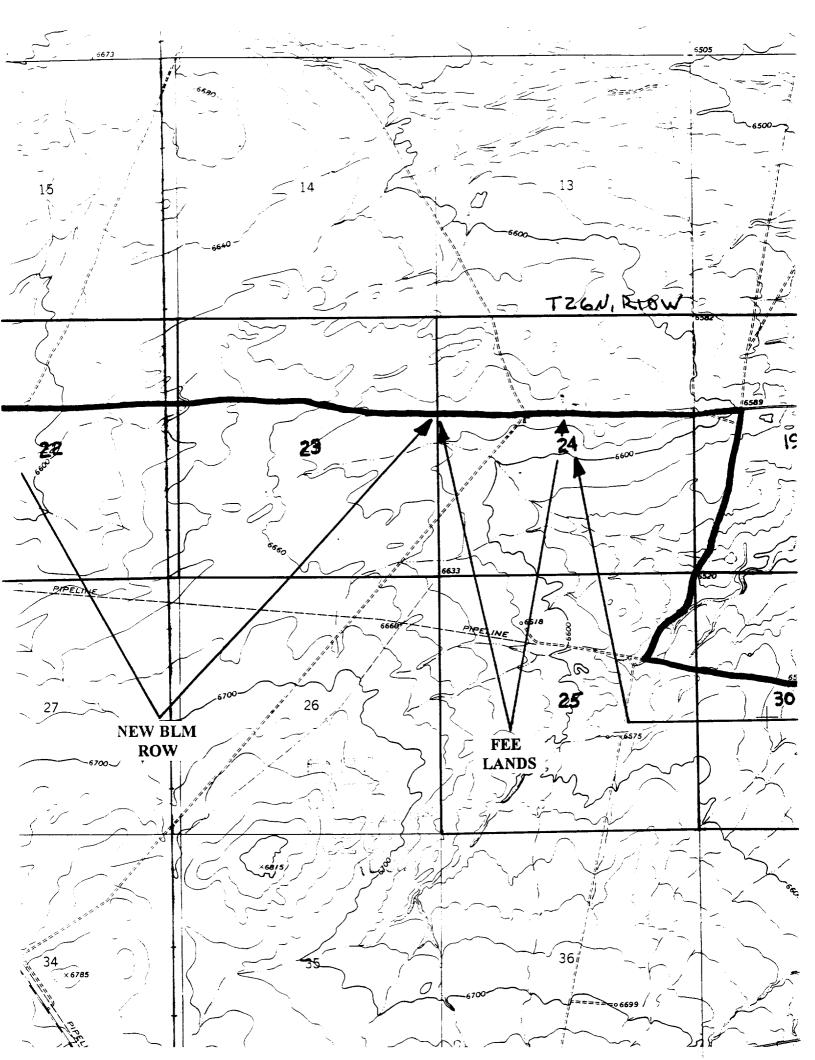
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
- 11. Surface Ownership Bureau of Land Management.
- 12. Other Information Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- 13. Operator's Representative and Certification Meridian Oil Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. 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 Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

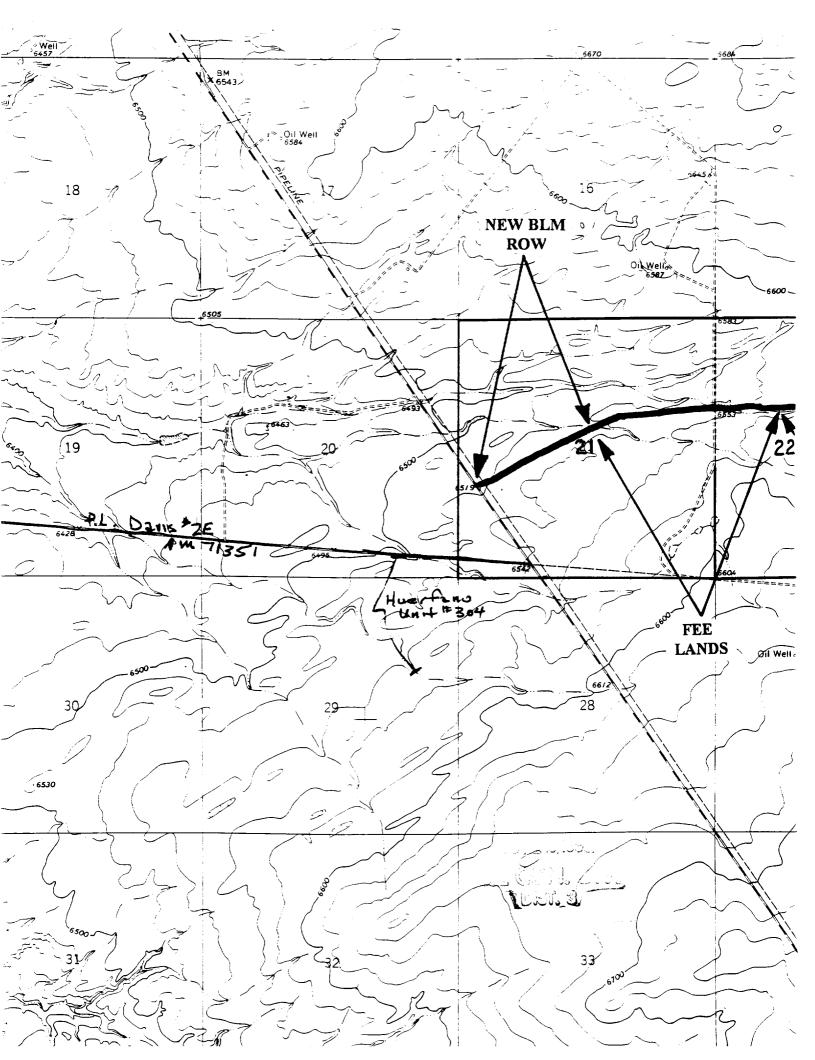
Regional Drilling Engineer

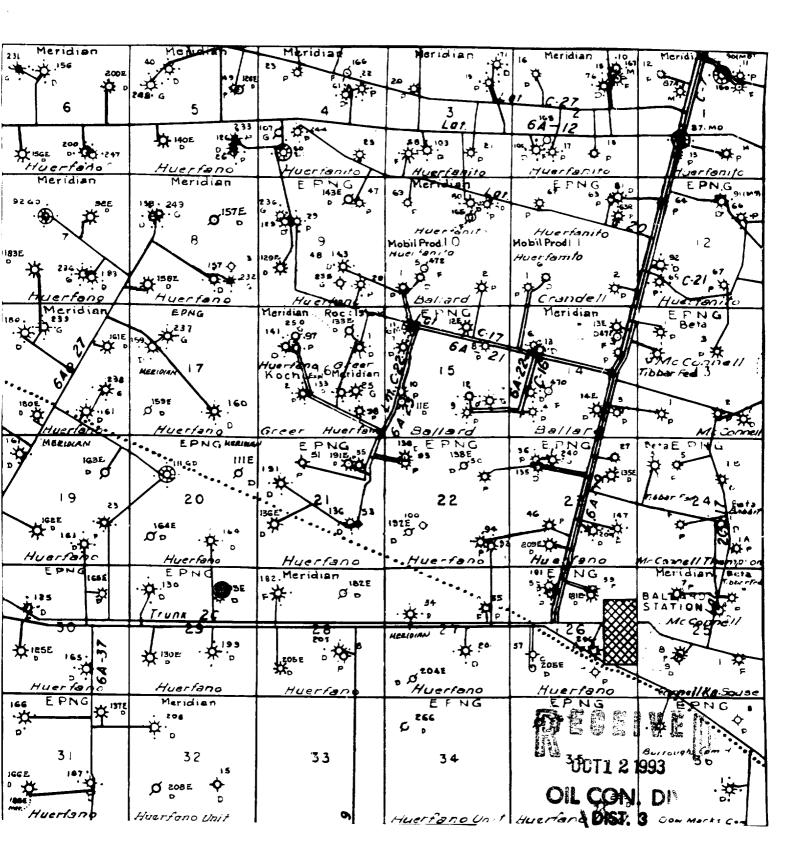
Date

JWC:pb









MERIDIAN OIL INC.
Pipeline Map
T-26-N, R-09-W
Rio Arriba County, New Mexico
Huerfano Unit #506
Map #1A

Well Head CATHODIC PROTECTION -Earthen Berm XXXXXXXXXXXXXXXXXXX Separator Tanks (As required) ¥xxxxxxxxxxxxxx Fiberglass Pit Dehydrator Chemical **Facility** Meter Run

PLAT #1

MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

KFR 2/90

MERIDIAN OIL Plat 2

Name: MOI HUERFANO UNIT # 506.
Footage: 1255 FNL 1410 FEL
Sec 29 T. 26 N.A. 9 WNMPM
Co. SAN JUAN St. N.M.
Elevation: 6522 Date: 8/23/93

