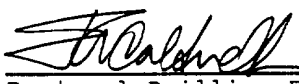


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-077384
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator MERIDIAN OIL 145.38	7. Unit Agreement Name Huerfano Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Huerfano Unit Com 9. Well Number 509
4. Location of Well 775' FNL, 545' FWL Latitude 36° 33' 06", Longitude 107° 56' 35"	10. Field, Pool, Wildcat 71629 Basin Fruitland Coal/ WEST Fletcher Kutz PC 79680 11. Sec., Twn, Rge, Mer. D Sec 30, T-27-N, R-10-W NMPM
14. Distance in Miles from Nearest Town 2 miles from Hilltop Store	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 545'	17. Acres Assigned to Well 327.4 (N/2) 167.4 (NW/4)
16. Acres in Lease 2108.460	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1100'	
19. Proposed Depth 1825'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5995' GR	22. Approx. Date Work will Start 4th quarter 1993
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by:  Regional Drilling Engineer	

RECEIVED
JAN 26 1994
OIL CON. DIV.
DIST. 3

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

**APPROVED
AS AMENDED**

JAN 20 1994

DISTRICT MANAGER

Handwritten notes and signatures at the bottom of the page.

1932

1933

1934

Subject to Approval -
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 1-1-88

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer 00, Aramis, NM 88210

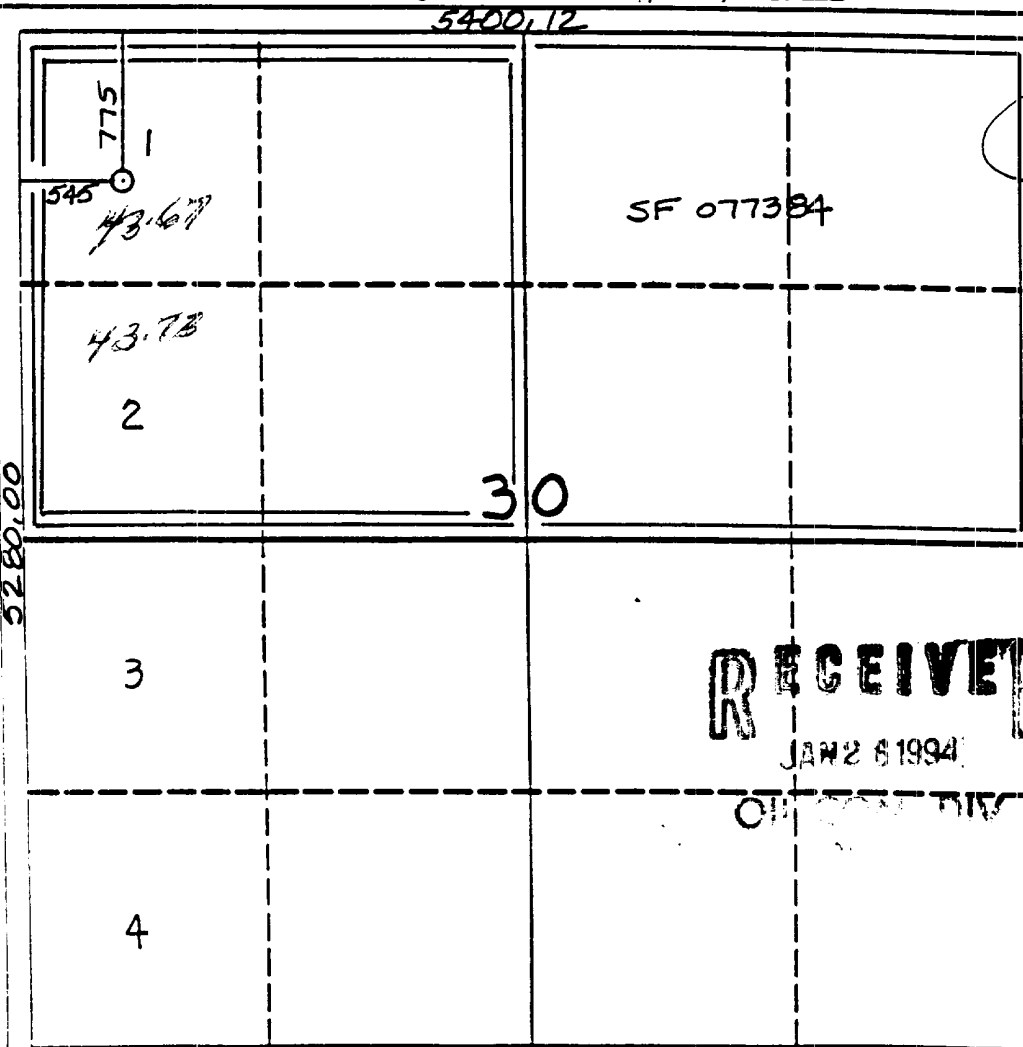
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease Huerfano Unit Com		Well No. 509
Unit Letter D	Section 30	Township 27 North	Range 10 West	County San Juan
Actual Forage Location of Well: 775 feet from the North line and 545 feet from the West line				
Ground level Elev. 5995'	Producing Formation Fruitland Coal/Pictured Cliffs	Pool Basin/Pulcher Kutz	Dedicated Acreage 327.4/167.4 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or ink 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 interest of all owners been consolidated by commutation, unitization, force-pooling, etc.? ☒ Yes ☐ No If answer is "yes" type of consolidation <u>unitization</u> If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No acreage will be assigned to the well until all interests have been consolidated (by commutation, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating each interest, has been approved by the Division.				



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Peggy Bradfield
Signature

Peggy Bradfield

Printed Name

Regulatory Representative

Position

Meridian Oil Inc.

Company

10-25-93

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 10-2-93

Date Surveyed

NEEDS C. EDWARDS

Professional Surveyor

9857

Certificate No.



OPERATIONS PLAN

Well Name: Huerfano Unit Com #509
Location: 775'FNL, 545'FWL Section 30, T-27-N, R-10-W
 San Juan County, New Mexico
 Latitude 36° 33' 06", Longitude 107° 56' 35"
Formation: Basin Fruitland Coal/Fulcher Kutz Pictured Cliffs
Elevation: 5995'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	603'	
Ojo Alamo	603'	732'	aquifer
Kirtland	732'	972'	
Farmington	972'	1206'	
Fruitland	1206'	1659'	
Fruitland Coal Top	1468'	1652'	gas
Pictured Cliffs	1659'		gas
Total Depth	1825'		

Logging Program: Mud logs from 1150' to Total Depth
 DIL-GR-SP - surface to Total Depth
 GL-GR-SP-CAL/Dens-Neut-GR-CAL - 1150' to Total Depth

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-1825'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 200'	8 5/8"	24.0#	K-40
7 7/8"	0 - 1825'	4 1/2"	10.5#	K-55

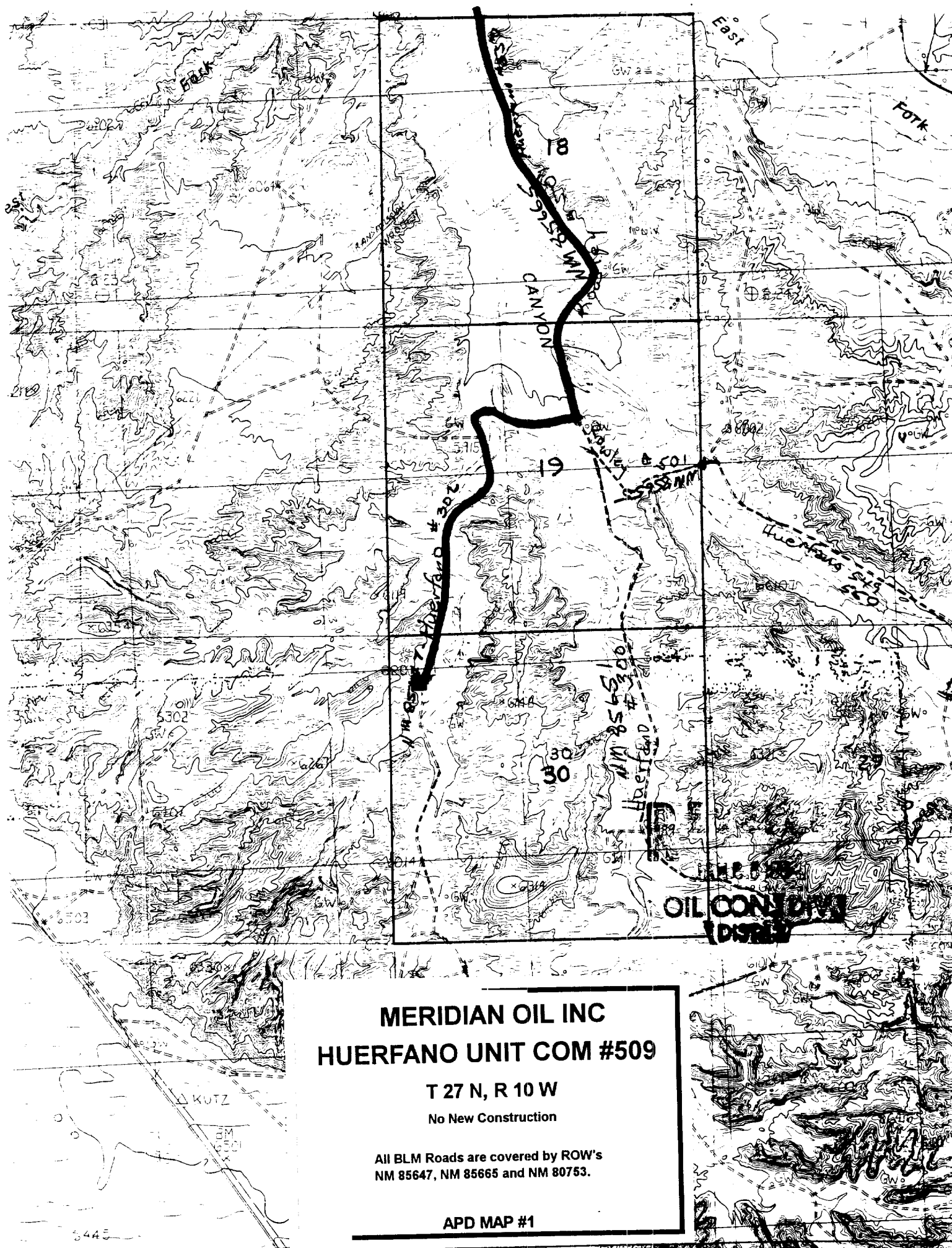
Tubing Program:

0 - 1825'	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. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 732'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 732'. 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.



... ..

... ..