

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

JAN 11-5 11:13:46

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                         |                                                      |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                               | <b>RECEIVED</b><br>JAN 31 1994 APE: 30-045-29073 ✓   | 5. Lease Number<br>SF-080127                                                                                        |
| 1b. Type of Well<br>GAS                                                                                 |                                                      | 6. If Indian, All. or Tribe                                                                                         |
| 2. Operator<br><b>MERIDIAN OIL</b><br>14538                                                             | <b>OIL CON. DIV</b><br>DIST. 3                       | 7. Unit Agreement Name<br>Huerfano Unit<br>7139                                                                     |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br><br>(505) 326-9700           |                                                      | 8. Farm or Lease Name<br>Huerfano Unit<br><br>9. Well Number<br>504                                                 |
| 4. Location of Well<br>1630' FSL, 1650' FWL<br><br>Latitude 36° 28' 16", Longitude 107° 46' 22"         |                                                      | 10. Field, Pool, Wildcat<br>Basin Ft Coal 71629<br><br>11. Sec., Twn, Rge, Mer.<br>K Sec 22, T-26-N, R-9-W<br>NMMPM |
| 14. Distance in Miles from Nearest Town<br>6 miles to Huerfano Trading Post                             | 12. County<br>San Juan                               | 13. State<br>NM                                                                                                     |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1630                           |                                                      |                                                                                                                     |
| 16. Acres in Lease                                                                                      | 17. Acres Assigned to Well<br>320 S/2 ✓              |                                                                                                                     |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>2500' |                                                      |                                                                                                                     |
| 19. Proposed Depth<br>2225'                                                                             | 20. Rotary or Cable Tools<br>Rotary                  |                                                                                                                     |
| 21. Elevations (DF, FT, GR, Etc.)<br>6378' GR                                                           | 22. Approx. Date Work will Start<br>1st quarter 1994 |                                                                                                                     |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                               |                                                      |                                                                                                                     |
| 24. Authorized by: <u>[Signature]</u><br>Regional Drilling Engineer                                     |                                                      | 1-4-94<br>Date                                                                                                      |

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 27 1994

DISTRICT MANAGER

NMOC

Submit to Appropriate  
District Office  
State Leases - 4 copies  
Fee Leases - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-182  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SA JUN -5 AM 10:46

070 1111 1111, NM

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, 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<br>MERIDIAN OIL INC.                                                                      |               |                                       |               | Lease<br>HUERFANO UNIT |  | Well No.<br>504                 |  |
| Unit Letter<br>K                                                                                   | Section<br>22 | Township<br>26 N                      | Range<br>9 W. | County<br>SAN JUAN     |  | NMPM                            |  |
| Actual Footage Location of Well:<br>1630 feet from the SOUTH line and 1650 feet from the WEST line |               |                                       |               |                        |  |                                 |  |
| Ground level Elev.<br>6378'                                                                        |               | Producing Formation<br>Fruitland Coal |               | Pool<br>Basin          |  | Dedicated Acreage:<br>320 Acres |  |

- Outline the acreage dedicated to the subject well by colored pencil or inkline marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☒ Yes ☐ 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 interest, has been approved by the Division.

|                                         |  |                                                     |  |
|-----------------------------------------|--|-----------------------------------------------------|--|
| N 89-50 W                               |  | 5269.44'                                            |  |
| Note: reissued to show revised location |  | 5280.00'                                            |  |
| 5200.66'                                |  | RECEIVED<br>JAN 31/1994<br>OIL CON. DIV.<br>DIST. 3 |  |
| SEC. 22                                 |  |                                                     |  |
| USA SF 80127                            |  | FEE                                                 |  |
| 1650'                                   |  |                                                     |  |
| 1630'                                   |  |                                                     |  |
| N 00-09 E                               |  | NORTH                                               |  |

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  
1-4-94

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.

12-3-93  
Date Surveyed

*[Signature]*  
Signature of Surveyor



Certificate No. 1400 SUS

January 4, 1994

OPERATIONS PLAN

**Well Name:** Huerfano Unit #504  
**Location:** 1630'FSL, 1650'FWL, Section 22, T-26-N, R-9-W  
 San Juan County, New Mexico  
 Latitude 36° 28' 16", Longitude 107° 46' 22"  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6378'GL

| Formation:      | Top        | Bottom | Contents |
|-----------------|------------|--------|----------|
| Surface         | Nacimiento | 1189'  |          |
| Ojo Alamo       | 1189'      | 1281'  | aquifer  |
| Kirtland        | 1281'      | 1779'  |          |
| Fruitland       | 1779'      | 1986'  | gas      |
| Fruitland Coal  | 1821'      | 1984'  | gas      |
| Pictured Cliffs | 1986'      |        |          |
| Total Depth     | 2225'      |        |          |

**Logging Program:** Mud logs from 1700' to Total Depth.  
 Dens/Neut/GL; Dens/GR; Micro/GR: 1820-TD  
 Ind/GR/SP: surface-TD

**Mud Program:**

| Interval  | Type          | Weight  | Vis.  | Fluid Loss |
|-----------|---------------|---------|-------|------------|
| 0- 200'   | Spud          | 8.4-8.9 | 40-50 | no control |
| 200-2225' | 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 - 2225'      | 4 1/2"   | 10.5# | K-55  |

**Tubing Program:**

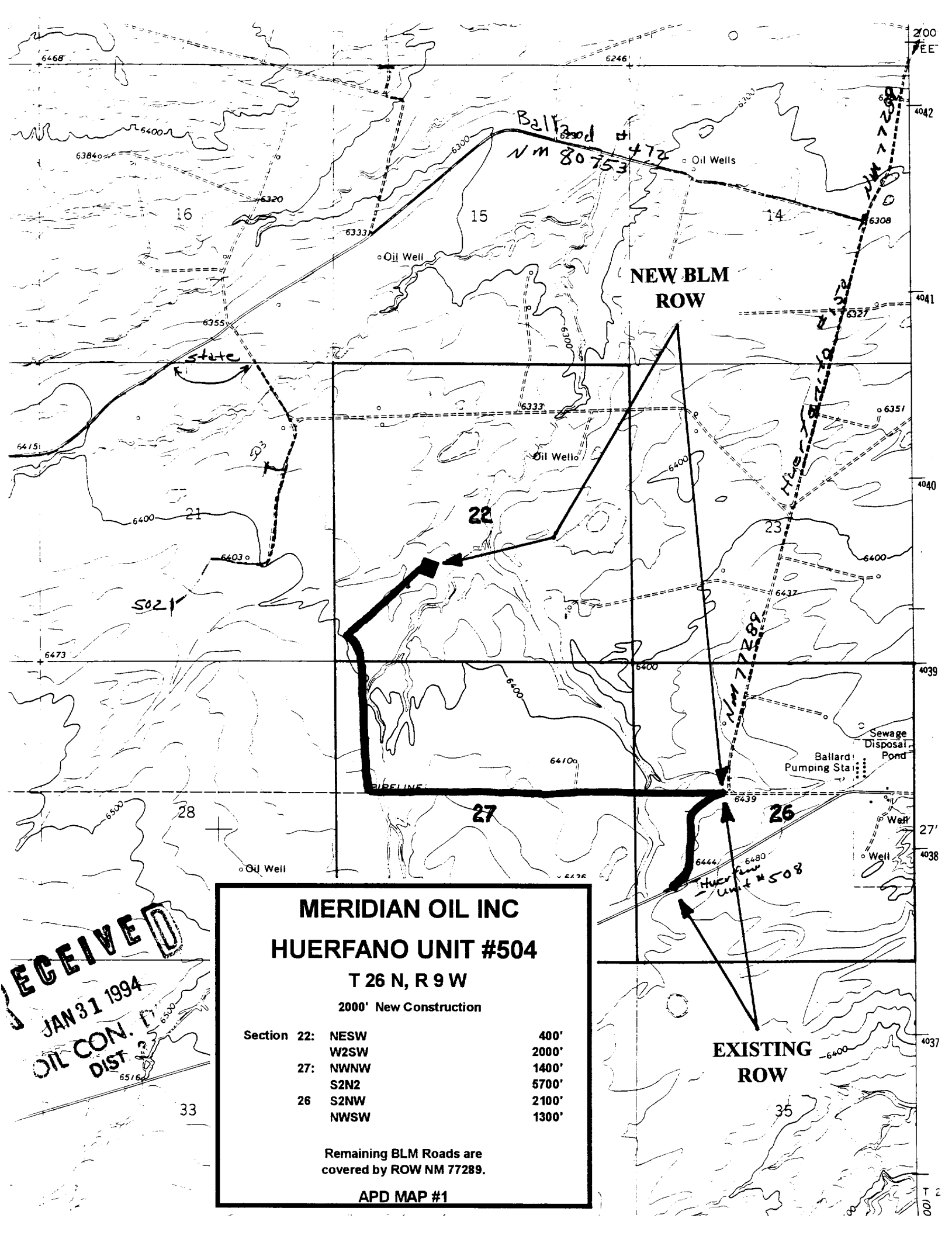
|           |        |      |      |
|-----------|--------|------|------|
| 0 - 2225' | 2 3/8" | 4.7# | J-55 |
|-----------|--------|------|------|

**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 @ 1281'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1281'. 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.

**RECEIVED**  
 JAN 31 1994  
 OIL CON. DIV  
 DIST. 3



RECEIVED  
JAN 31 1994  
OIL CON. DIST. 2  
6516

**MERIDIAN OIL INC**  
**HUERFANO UNIT #504**  
**T 26 N, R 9 W**  
**2000' New Construction**

|             |      |       |
|-------------|------|-------|
| Section 22: | NESW | 400'  |
|             | W2SW | 2000' |
| 27:         | NWNW | 1400' |
|             | S2N2 | 5700' |
| 26          | S2NW | 2100' |
|             | NWSW | 1300' |

Remaining BLM Roads are covered by ROW NM 77289.

**APD MAP #1**

**EXISTING ROW**