

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 26 1994

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                           |                                                                                                                        |                 |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1a. Type of Work<br>DRILL                                                                                                 | 5. Lease Number<br>SF-080810                                                                                           |                 |
| 1b. Type of Well<br>GAS                                                                                                   | 6. If Indian, All. or Tribe                                                                                            |                 |
| 2. Operator<br><b>MERIDIAN OIL</b><br>14538                                                                               | 7. Unit Agreement Name<br>Huerfano Unit                                                                                |                 |
| 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 7139<br>9. Well Number<br>550                                                   |                 |
| 4. Location of Well<br>1205' FNL, 1310' FEL<br><br>Latitude 36° 33' 01", Longitude 107° 54' 50"                           | 10. Field, Pool, Wildcat<br>71629 Basin Fruitland Coal<br>11. Sec., Twn, Rge, Mer.<br>A Sec 29, T-27-N, R-10-W<br>NMPM |                 |
| 14. Distance in Miles from Nearest Town<br>4 miles to Hill-top Store, NM                                                  | 12. County<br>San Juan                                                                                                 | 13. State<br>NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1205'                                            |                                                                                                                        |                 |
| 16. Acres in Lease<br>320                                                                                                 | 17. Acres Assigned to Well<br>320 E/2                                                                                  |                 |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>300'                    |                                                                                                                        |                 |
| 19. Proposed Depth<br>1950'                                                                                               | 20. Rotary or Cable Tools<br>Rotary                                                                                    |                 |
| This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4. |                                                                                                                        |                 |
| 21. Elevations (DF, FT, GR, Etc.)<br>6006' GR                                                                             | 22. Approx. Date Work will Start<br>4th quarter 1993                                                                   |                 |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                                                 |                                                                                                                        |                 |
| 24. Authorized by: <i>[Signature]</i><br>Regional Drilling Engineer                                                       | RECEIVED<br>JAN 26 1994<br>OIL CONTROL<br>DIST. 3<br>10-27-93                                                          |                 |

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED  
AS AMENDED

Archaeological Report submitted 12-21-92

Threatened and Endangered Species Report submitted 01-26-93

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

JAN 20 1994

NMOCD

DISTRICT MANAGER



Schedule to Applicants  
District Office  
State Leases - 4 copies  
Fee Leases - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
BLP  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

10-22-93 PM 3:17

OTD 11/13/92

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

DISTRICT II  
P.O. Drawer 00, Arama, NM 88210

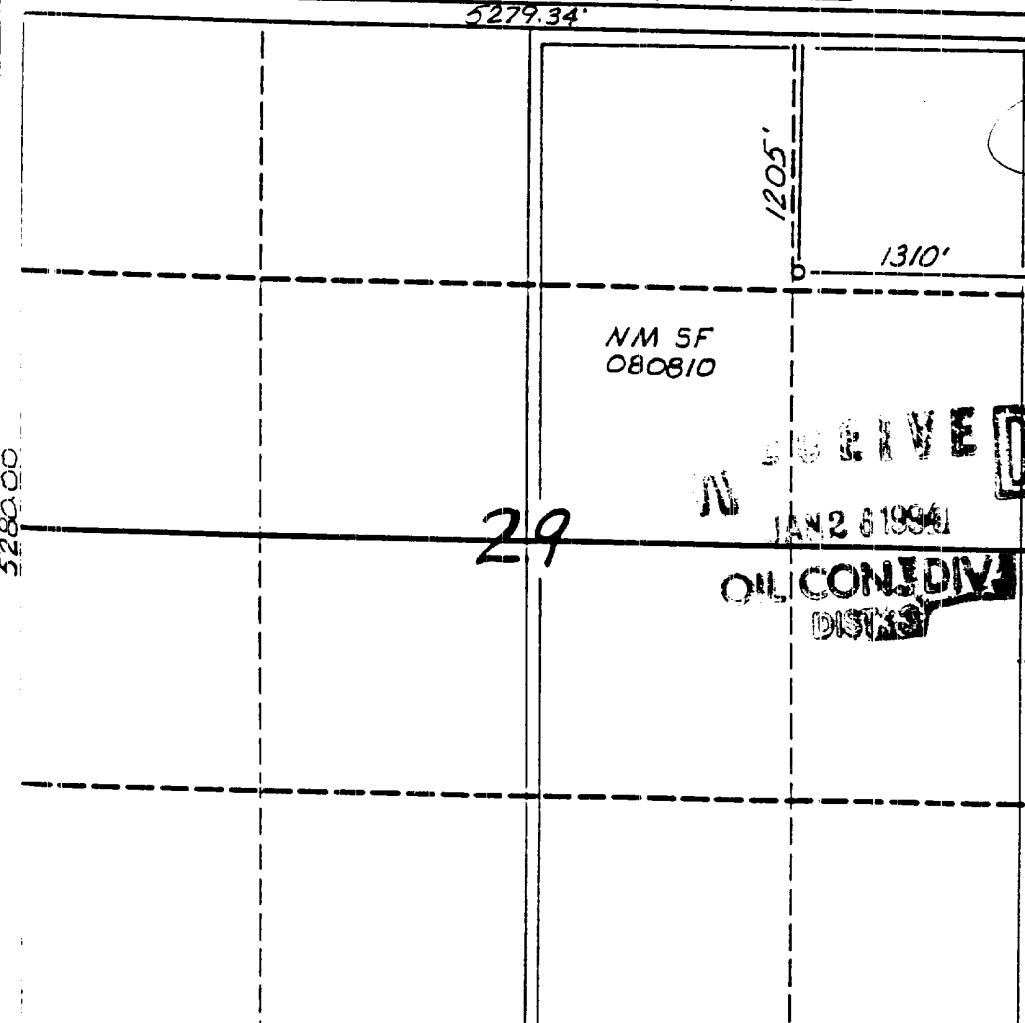
DISTRICT III  
1000 Rio Grande Rd., Aztec, NM 87410

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>550 |
| Unit Lease<br>A                                                                                    | Section<br>29                         | Township<br>27 North | Range<br>10 West       | County<br>San Juan              |                 |
| Actual Footage Location of Well:<br>1205 feet from the North line and 1310 feet from the East line |                                       |                      |                        |                                 |                 |
| Ground level Elev.<br>6006'                                                                        | 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 ink 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 allowance 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, encompassing such 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 Affairs

Position

Meridian Oil Inc.

Company

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes, 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. 11/13/92

*C. Edwards*  
Signature

Professional Surveyor

3357



OPERATIONS PLAN

**Well Name:** Huerfano Unit #550  
**Location:** 1205'FNL, 1310'FEL, Section 29, T-27-N, R-10-W  
 San Juan County, New Mexico  
 Latitude 36° 33' 01", Longitude 107° 54' 50"  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6006'GL

| Formation:         | Top        | Bottom | Contents         |
|--------------------|------------|--------|------------------|
| Surface            | Nacimiento | 716'   |                  |
| Ojo Alamo          | 716'       | 828'   | aquifer          |
| Kirtland           | 828'       | 1481'  |                  |
| Fruitland          | 1481'      | 1723'  |                  |
| Fruitland Coal Top | 1550'      | 1720'  | gas & salt water |
| Pictured Cliffs    | 1723'      |        | gas & water      |
| Total Depth        | 1950'      |        |                  |

**Logging Program:** Mud logs from 1450' to Total Depth.  
 DIL, CNL-LDT from surface to Total Depth.  
 HRD, NGT from 1450' to Total Depth.

**Mud Program:**

| Interval  | Type          | Weight  | Vis.  | Fluid Loss |
|-----------|---------------|---------|-------|------------|
| 0- 200'   | Spud          | 8.4-8.9 | 40-50 | no control |
| 200-1950' | 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 - 1950'      | 4 1/2"   | 10.5# | K-55  |

**Tubing Program:**

|           |        |      |      |
|-----------|--------|------|------|
| 0 - 1950' | 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. Seven centralizers run every 3rd joint to the base of the Cjo Alamo @ 828'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 828'. 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" 3000 psi xmas tree assembly.



