

Kardex has  
abandoned on  
2-8-95

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

30-045-11042

NOV -2 11:30

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                        |                                                                                                                                  |                                                                                  |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                              | <b>RECEIVED</b><br>DEC 17 1993                                                                                                   | 5. Lease Number<br>SF-047017B                                                    |
| 1b. Type of Well<br>GAS                                                                                |                                                                                                                                  | 6. If Indian, All. or Tribe                                                      |
| 2. Operator<br>14538 <b>MERIDIAN OIL</b>                                                               | <b>OIL CON. DIV</b><br><b>DIST. 3</b>                                                                                            | 7. Unit Agreement Name                                                           |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br><br>(505) 326-9700          |                                                                                                                                  | 8. Farm or Lease Name<br>Angel Peak B 6788                                       |
|                                                                                                        |                                                                                                                                  | 9. Well Number<br>140                                                            |
| 4. Location of Well<br>1615' FNL, 1190' FEL<br><br>Latitude 36° 39' 54", Longitude 107° 56' 59"        |                                                                                                                                  | 10. Field, Pool, Wildcat<br>Basin Fruitland Coal/ 71629<br>Fulcher Kutz PC 77200 |
|                                                                                                        |                                                                                                                                  | 11. Sec., Twn, Rge, Mer.<br>H Sec 13, T-28-N, R-11-W<br>NMPM                     |
| 14. Distance in Miles from Nearest Town<br>3 miles to Bloomfield, NM                                   |                                                                                                                                  | 12. County<br>San Juan                                                           |
|                                                                                                        |                                                                                                                                  | 13. State<br>NM                                                                  |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1190'                         |                                                                                                                                  |                                                                                  |
| 16. Acres in Lease<br>1874.880                                                                         | DRILLING OPERATIONS AUTHORIZED ARE<br>SUBJECT TO COMPLIANCE WITH ATTACHED<br>"GENERAL REQUIREMENTS".                             | 17. Acres Assigned to Well<br>320 (E/2); 160 (NE/4)                              |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>400' |                                                                                                                                  |                                                                                  |
| 19. Proposed Depth<br>2075'                                                                            | This action is subject to technical and<br>procedural review pursuant to 43 CFR 3165.3,<br>and appeal pursuant to 43 CFR 3165.4. | 20. Rotary or Cable Tools<br>Rotary                                              |
| 21. Elevations (DF, FT, GR, Etc.)<br>5804' 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:  | Regional Drilling Engineer                                                                                                       | 10-25-93<br>Date                                                                 |

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED  
AS AMENDED

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

Add c-104 for Simultaneous dedication of  
a second PC well (2)

NMOCD

DEC 14 1993  
  
DISTRICT MANAGER

Submit to Aspetrom  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89  
RECEIVED  
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OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

NOV -2 AM 11:30

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT  
All Distances must be from the outer boundaries of the section

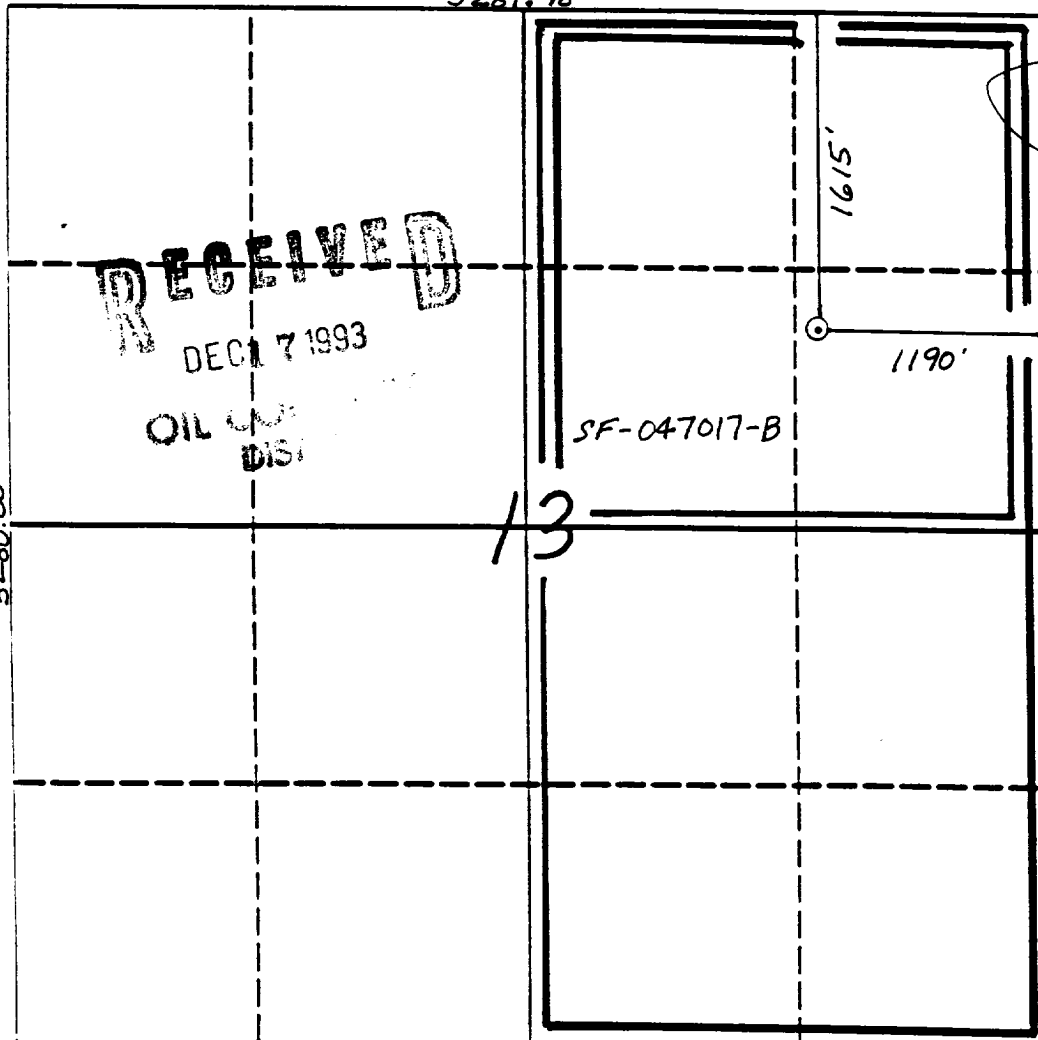
|                                                                                                    |               |                                                 |                       |                |                            |                 |                                     |  |
|----------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------|-----------------------|----------------|----------------------------|-----------------|-------------------------------------|--|
| Operator<br>Meridian Oil Inc.                                                                      |               |                                                 | Lease<br>Angel Peak B |                |                            | Well No.<br>140 |                                     |  |
| Unit Letter<br>H                                                                                   | Section<br>13 | Township<br>28 North                            | Range<br>11 West      | County<br>NMNM |                            | San Juan        |                                     |  |
| Actual Footage Location of Well:<br>1615 feet from the North line and 1190 feet from the East line |               |                                                 |                       |                |                            |                 |                                     |  |
| Ground level Elev.<br>5804'                                                                        |               | Producing Formation<br>Fruitland Coa/Pic.Cliffs |                       |                | Pool<br>Basin/Fulcher Kutz |                 | Dedicated Acreage:<br>320/160 Acres |  |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 \_\_\_\_\_

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, forced-pooling, or otherwise) or until a acre-standard unit, eliminating such interest, has been approved by the Division.

5281.98'



OPERATOR CERTIFICATION

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

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.

Date Surveyed  
Neal C. Edwards  
Professional Surveyor  
6857

Signature  
Neal C. Edwards  
Professional Surveyor  
6857

Capitulate No.  
6857

October 25, 1993

OPERATIONS PLAN

**Well Name:** Angel Peak B #140  
**Location:** 1615'FNL, 1190'FEL Section 13, T-28-N, R-11-W  
 San Juan County, New Mexico  
 Latitude 36° 39' 54", Longitude 107° 56' 59"  
**Formation:** Basin Fruitland Coal/Fulcher Kutz Pictured Cliffs  
**Elevation:** 5804'GL

| Formation:         | Top      | Bottom | Contents |
|--------------------|----------|--------|----------|
| Surface            | San Jose | 751'   |          |
| Ojo Alamo          | 751'     | 880'   | aquifer  |
| Kirtland           | 880'     | 1567'  |          |
| Fruitland          | 1567'    | 1879'  |          |
| Fruitland Coal Top | 1710'    | 1872'  | gas      |
| Pictured Cliffs    | 1879'    |        | gas      |
| Total Depth        | 2075'    |        |          |

**Logging Program:** Mud logs from 1500' to Total Depth  
 DIL-GR-SP - surface to Total Depth  
 GL-GR-SP-CAL/Dens-Neut-GR-CAL - 1500' to Total Depth

**Mud Program:**

| Interval  | Type          | Weight  | Vis.  | Fluid Loss |
|-----------|---------------|---------|-------|------------|
| 0- 200'   | Spud          | 8.4-8.9 | 40-50 | no control |
| 200-2075' | 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 - 2075'      | 4 1/2"   | 10.5# | K-55  |

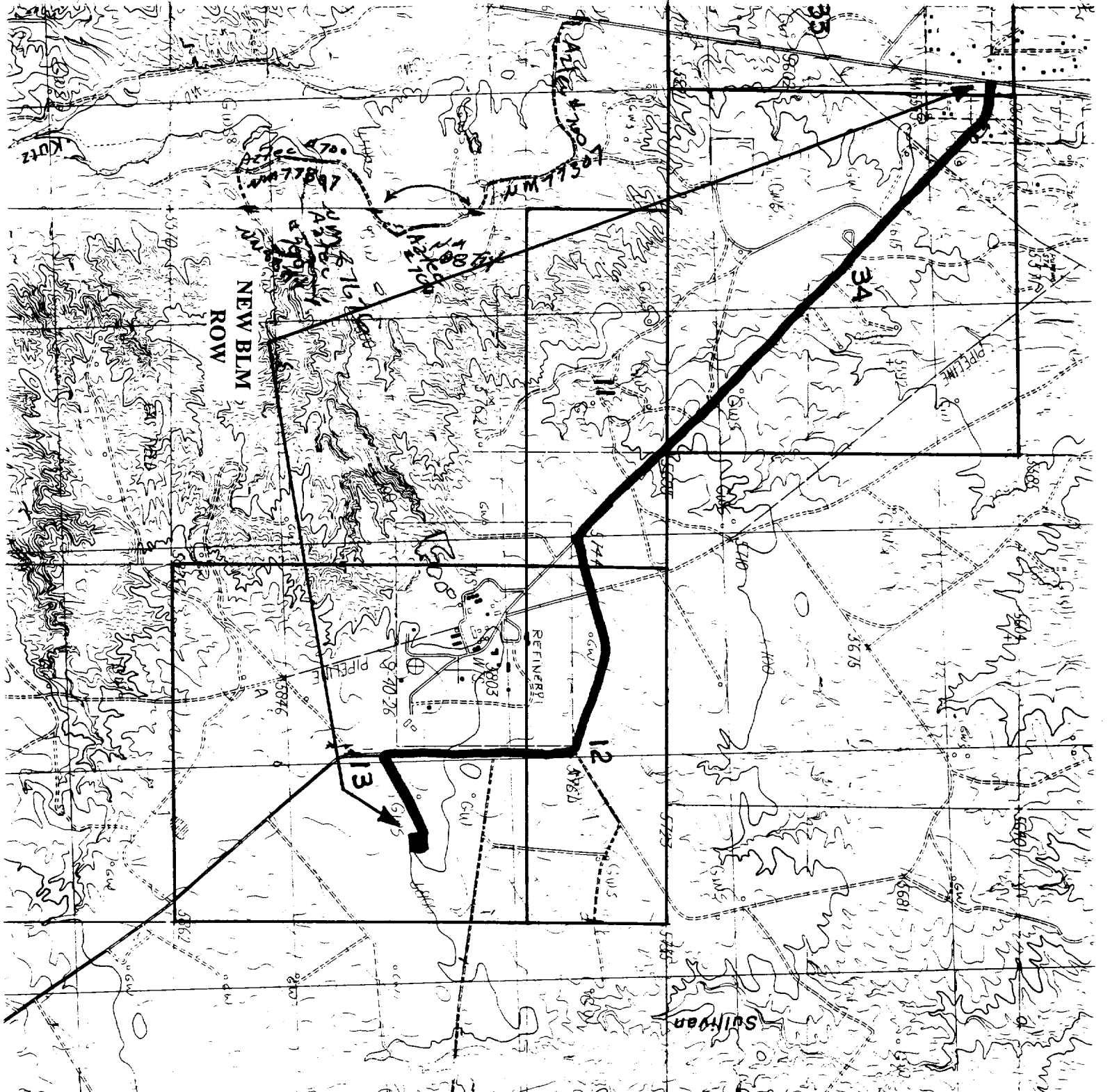
**Tubing Program:**

|           |        |      |      |
|-----------|--------|------|------|
| 0 - 2075' | 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 @ 880'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 880'. 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.



3

**MERIDIAN OIL INC  
ANGEL PEAK B #140**

**T 28 N, R 11 W**

**500' New Construction**

**T28N, R11W**

|                  |       |
|------------------|-------|
| Section 13: W2NE | 3300' |
| 12: SWSE         | 800'  |
| S2SW             | 2800' |
| 11: E2SE         | 1900' |
| NWSE             | 300'  |

**T29N, R11W**

|                  |       |
|------------------|-------|
| Section 34: SESE | 1900' |
| NWSE             | 1700' |
| NESW             | 200'  |
| S2NW             | 1900' |
| NWNW             | 1700' |
| 33: SESE         | 200'  |

**APD MAP #1**