

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

30-045-28933 ✓  
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                 |                                                                                                                     |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                       | 5. Lease Number<br>NM-013688                                                                                        |
| 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                                                                                              |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br><br>(505) 326-9700   | 8. Farm or Lease Name<br>Atlantic 4795<br>9. Well Number<br>5R                                                      |
| 4. Location of Well<br>1495' FNL, 1030' FEL<br><br>Latitude 36° 53' 14", Longitude 107° 51' 51" | 10. Field, Pool, Wildcat<br>72349 Blanco Mesa Verde ✓<br>11. Sec., Twn, Rge, Mer.<br>H Sec 22, T31N, R10W ✓<br>NMPM |
| 14. Distance in Miles from Nearest Town<br>3 miles to Cedar Hill, NM                            | 12. County<br>San Juan<br>13. State<br>NM                                                                           |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1030'                  | 17. Acres Assigned to Well<br>309.96 E/2 ✓                                                                          |
| 16. Acres in Lease<br>2066.440                                                                  | 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>550'              |
| 19. Proposed Depth<br>5887'                                                                     | 20. Rotary or Cable Tools<br>Rotary                                                                                 |
| 21. Elevations (DF, FT, GR, Etc.)<br>6328' GR                                                   | 22. Approx. Date Work will Start<br>2nd quarter 1993                                                                |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                       |                                                                                                                     |
| 24. Authorized by: <u>ER Powers</u><br>Regional Drilling Engineer                               | Date: <u>2/25/93</u>                                                                                                |

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

Archaeological Report submitted 12-26-92

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

NMOCD

**APPROVED  
AS AMENDED**

MAR 08 1993

**AREA MANAGER**

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1. 2000年12月1日以前に、  
 2. 2000年12月1日以後に、

Schedule to Appropriations  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED  
BLM  
Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

93 MAR -1 PM 3:11

CFO FAIRBANKTON, NM

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

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

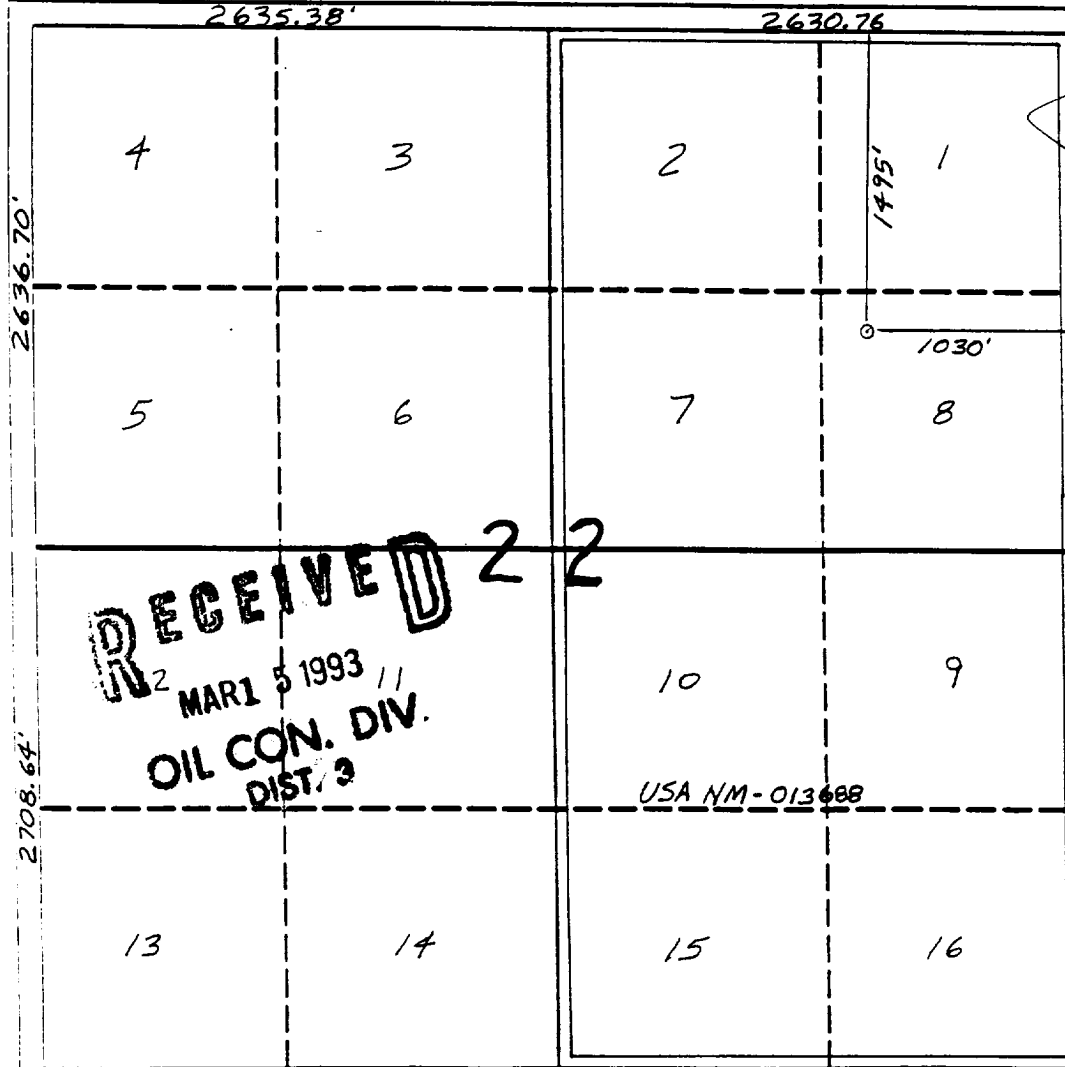
DISTRICT III  
1000 Rio Bravo Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|                                                                                                   |               |                                   |                   |                    |  |                                   |  |  |
|---------------------------------------------------------------------------------------------------|---------------|-----------------------------------|-------------------|--------------------|--|-----------------------------------|--|--|
| Operator<br>Meridian Oil Inc.                                                                     |               |                                   | Lease<br>Atlantic |                    |  | Well No.<br>5R                    |  |  |
| U.S. Letter<br>H                                                                                  | Section<br>22 | Township<br>31 North              | Range<br>10 West  | County<br>San Juan |  | NM/M                              |  |  |
| Actual Forage Location of Well:<br>1495 feet from the North line and 1030 feet from the East line |               |                                   |                   |                    |  |                                   |  |  |
| Ground level Elev.<br>6328'                                                                       |               | Producing Formation<br>Mesa Verde |                   | Pool<br>Blanco     |  | Dedicated Acreage<br>309.96 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 \_\_\_\_\_  
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 acre-standard unit, eliminating 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

2-8-93

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.

10-26-92

Date Surveyed

NEED C. EDWARDS

Signature of State of Professional Surveyor

3351

Surveyor No.

Surveyor No.

Surveyor No.

Surveyor No.

Surveyor No.

Surveyor No.

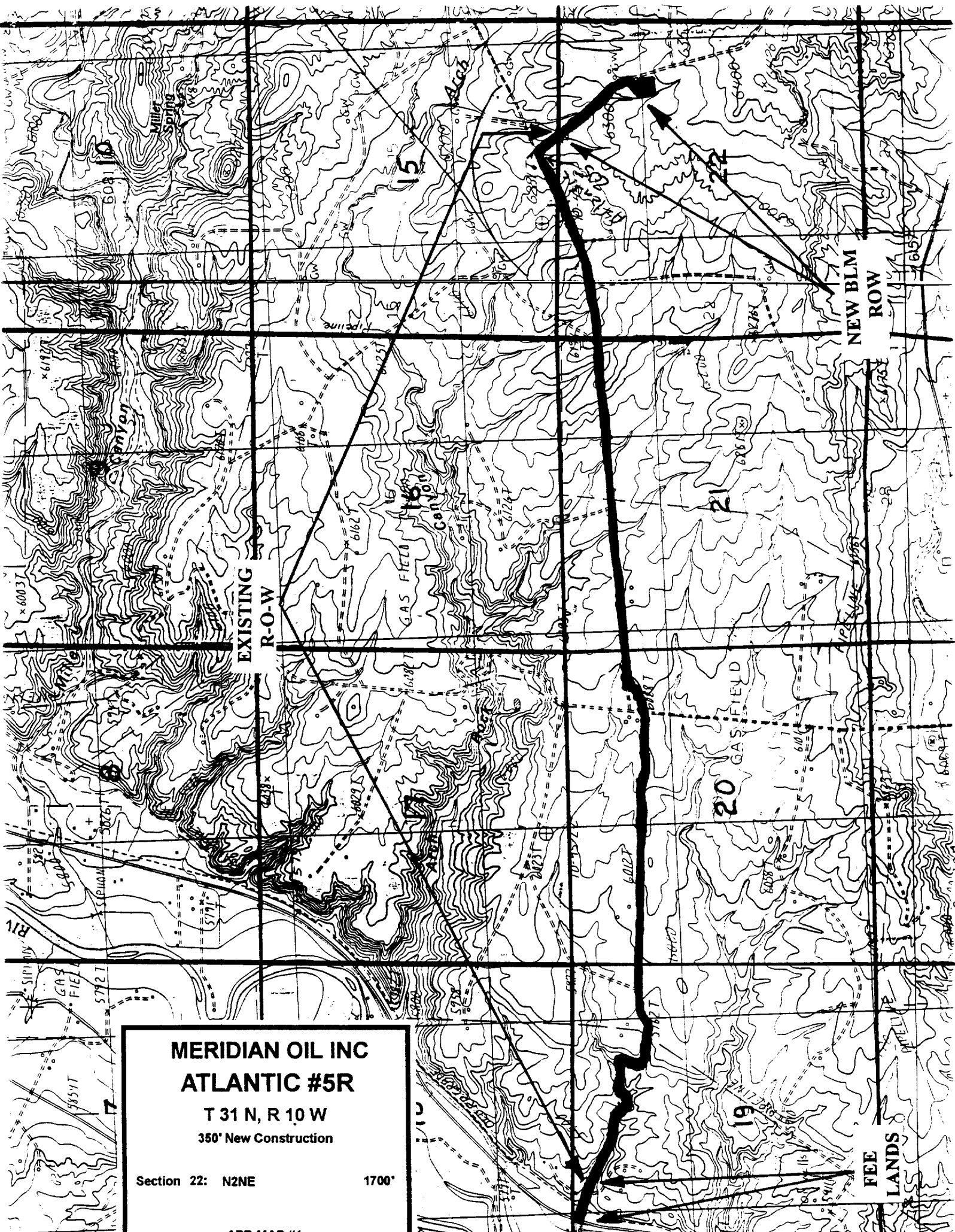
6857

**MERIDIAN OIL INC  
ATLANTIC #5R**

**T 31 N, R 10 W  
350' New Construction**

**Section 22: N2NE**

**1700'**



**NEW BLM  
ROW**

**FEE  
LANDS**

OPERATIONS PLAN

**Well Name:** Atlantic #5R  
**Location:** 1495'FNL, 1030'FEL Section 22, T-31-N, R-10-W  
 San Juan County, New Mexico  
 Latitude 36° 53' 14", Longitude 107° 51' 51"  
**Formation:** Blanco Mesa Verde  
**Elevation:** 6328'GL

| <u>Formation Tops:</u> | <u>Top</u>   | <u>Bottom</u> | <u>Contents</u> |
|------------------------|--------------|---------------|-----------------|
| Surface                | Nacimiento   | 1599'         |                 |
| Ojo Alamo              | 1599'        | 1609'         | aquifer         |
| Kirtland               | 1609'        | 2644'         |                 |
| Fruitland              | 2644'        | 3095'         |                 |
| Pictured Cliffs        | 3095'        | 3285'         | gas             |
| Lewis                  | 3285'        | 3830'         |                 |
| <b>Intermediate TD</b> | <b>3485'</b> |               |                 |
| Chacra                 | 3830'        | 4586'         |                 |
| Mesa Verde             | 4586'        |               | gas & oil       |
| Upper Cliff House      | 4586'        | 4807'         |                 |
| Massive Cliff House    | 4807'        | 4910'         |                 |
| Menefee                | 4910'        | 5337'         |                 |
| Massive Point Lookout  | 5337'        | 5407'         |                 |
| Lower Point Lookout    | 5407'        |               |                 |
| <b>Total Depth</b>     | <b>5887'</b> |               |                 |

**Logging Program:**

Openhole Wireline Logging -  
 Surface to Total Depth : CNL/GR  
 Intermediate TD to Total Depth : DIL/LDT/Temp  
 Mud Logs/Coring/DST -  
 Mud logs - Intermediate TD to Total Depth  
 Coring - none  
 DST - none

**Mud Program:**

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 200'         | Spud        | 8.4-8.9       | 40-50       | no control        |
| 200-3485'       | Weighted    | 8.4-9.1       | 30-60       | no control        |
| 3485-5887'      | Gas/Mist    | n/a           | n/a         | n/a               |

Pit levels will be visually monitored to detect gain or loss of fluid control.

**Casing Program:**

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csg. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 12 1/4"          | 0' - 200'             | 9 5/8"           | 32.3#      | H-40         |
| 8 3/4"           | 0' - 3485'            | 7"               | 20.0#      | K-55         |
| 6 1/4"           | 3335' - 5887'         | 4 1/2"           | 10.5#      | K-55         |

**Tubing Program:**

|            |        |      |      |
|------------|--------|------|------|
| 0' - 5887' | 2 3/8" | 4.7# | J-55 |
|------------|--------|------|------|