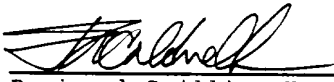


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EX-045 1912P  
309

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                          |                                                                                                                   |                                                            |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                                |                                                                                                                   | 5. Lease Number<br>SF-078092                               |
| 1b. Type of Well<br>GAS                                                                                  |                                                                                                                   | 6. If Indian, All. or Tribe                                |
| 2. Operator<br>MERIDIAN OIL<br>4538                                                                      |                                                                                                                   | 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>1402 Douthitt                     |
| 4. Location of Well<br>1500' FSL, 1200' FWL<br>1745 2250<br>Latitude 36° 32' 36", Longitude 107° 58' 39" |                                                                                                                   | 9. Well Number<br>262                                      |
| 10. Field, Pool, Wildcat<br>7/22 Basin Fruitland Coal                                                    |                                                                                                                   | 11. Sec., Twn, Rge, Mer.<br>Sec 26, T-27-N, R-11-W<br>NMPM |
| 14. Distance in Miles from Nearest Town<br>12 miles South of Bloomfield                                  | 12. County<br>San Juan                                                                                            | 13. State<br>NM                                            |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1200'                           |                                                                                                                   |                                                            |
| 16. Acres in Lease                                                                                       | 17. Acres Assigned to Well<br>320 S/2                                                                             |                                                            |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>3413   |                                                                                                                   |                                                            |
| 19. Proposed Depth<br>2012'                                                                              | 20. Rotary or Cable Tools<br>Rotary                                                                               |                                                            |
| 21. Elevations (DF, FT, GR, Etc.)<br>6423' 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:                                                                                       | <br>Regional Drilling Engineer | 9/21/93<br>Date                                            |

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

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

Archaeological Report submitted 10-15-90 Report 90-SJC-087 by San Juan College  
Threatened and Endangered Species Report to be submitted  
NOTE: APD submitted by Marathon 10-02-90, approved 11-29-90, rescinded 05-05-92

APPROVED  
AS AMENDED

MAY 26 1994  
DISTRICT MANAGER

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

State of New Mexico -  
Energy, Minerals and Natural Resources Department

Form C-181-  
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. Denver CO, Arroyo, NM 88210

DISTRICT III

1000 Rio Grande Rd., Arroyo, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                      |                   |                                |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|-------------------|--------------------------------|-----------------|
| Operator<br>Meridian Oil Inc. 14538                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                      | Lease<br>Douthitt |                                | Well No.<br>262 |
| Unit Letter<br>K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Section<br>26                         | Township<br>27 North | Range<br>11 West  | County<br>San Juan             |                 |
| Assist Footage Location of Well:<br>1795' feet from the South line and 2280' feet from the West line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                      |                   |                                |                 |
| Ground level Elev.<br>6455'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Producing Formation<br>Fruitland Coal |                      | Pool<br>Basin     | Dedicated Acreage<br>320 Acres |                 |
| <p>1. Outline the acreage dedicated to the subject well by colored pencil or inkline marks on the plat below.</p> <p>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).</p> <p>3. 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.?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No allowable well 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.</p> |                                       |                      |                   |                                |                 |

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

11-26-93

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

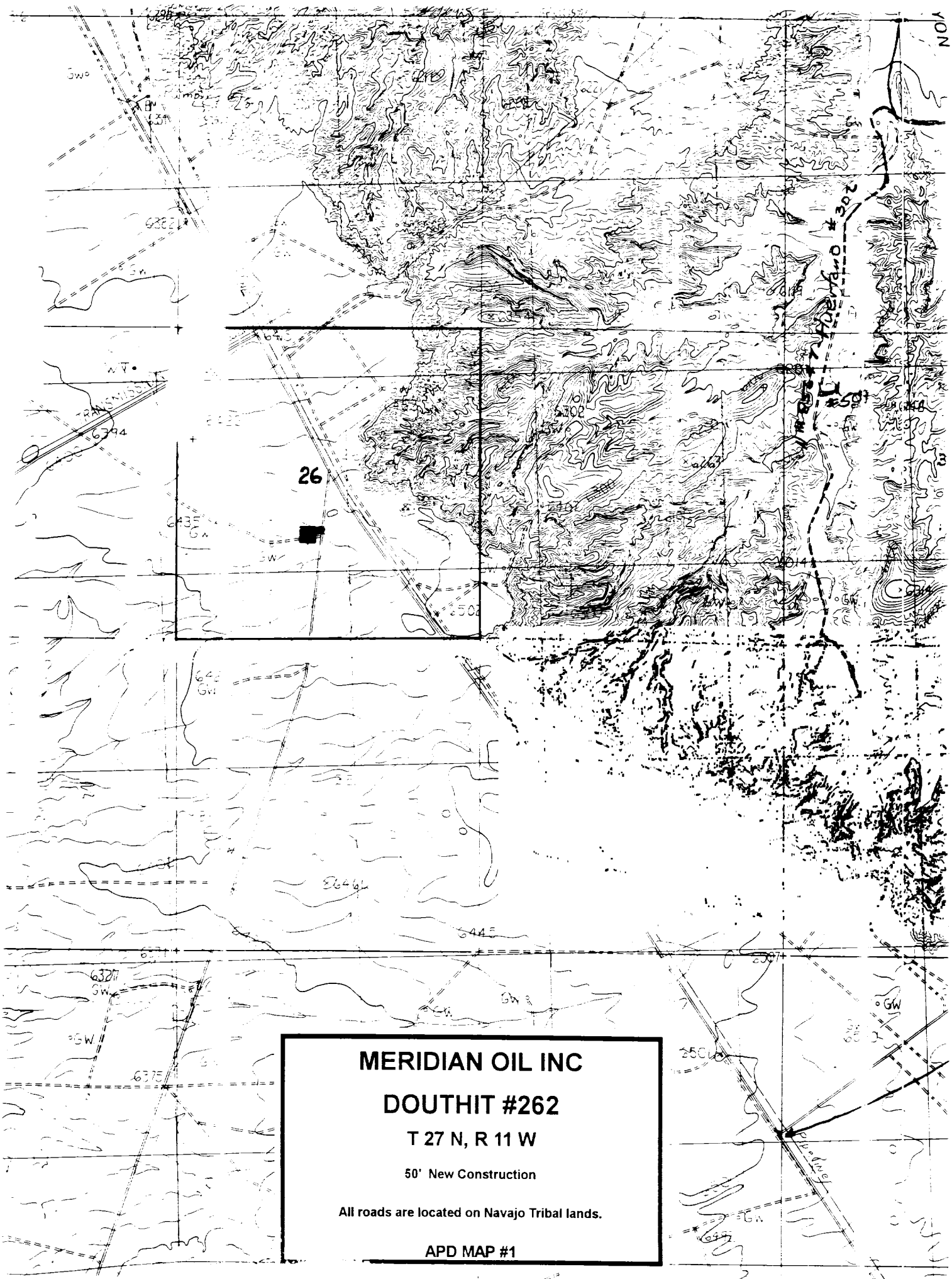
11-26-93

Signature  
Professional Surveyor

9857

License No.

6857



**MERIDIAN OIL INC**

**DOUTHIT #262**

**T 27 N, R 11 W**

**50' New Construction**

**All roads are located on Navajo Tribal lands.**

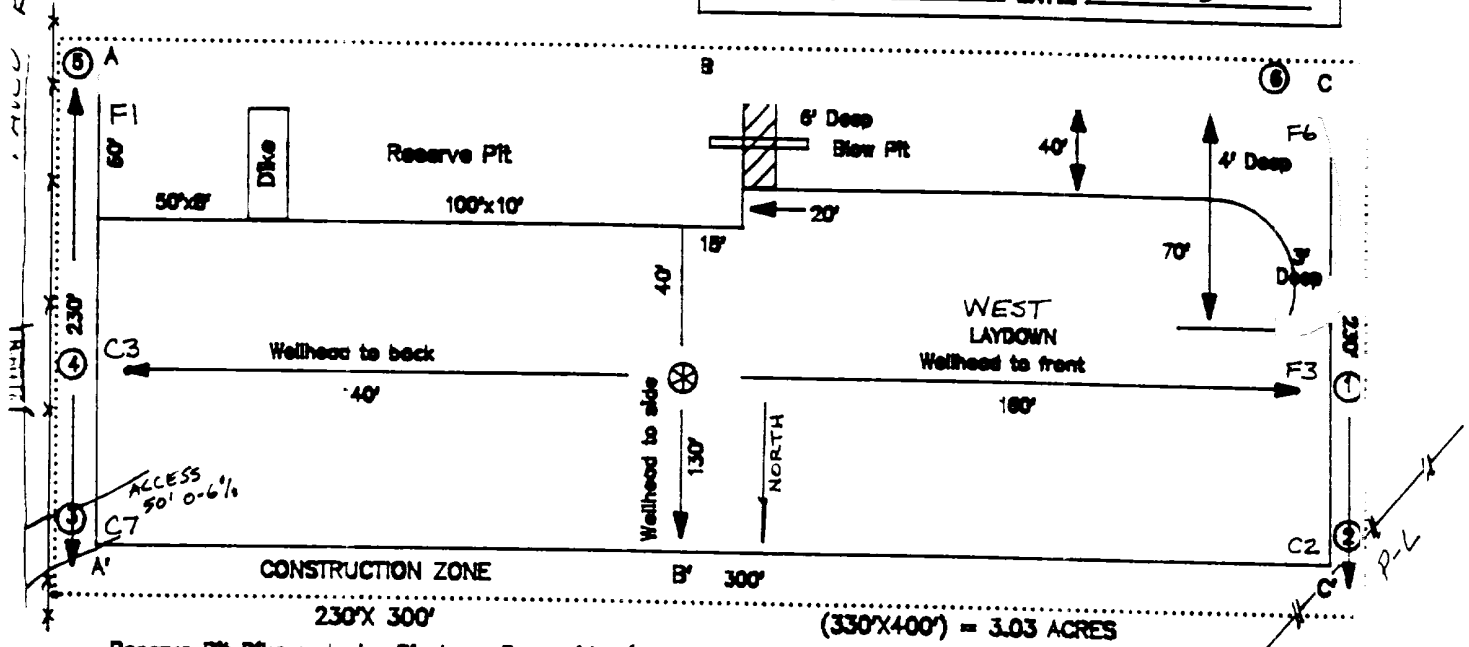
**APD MAP #1**

# MERIDIAN OIL

PLAT #1

PC/FC LOW POTENTIAL

|            |                  |           |                |
|------------|------------------|-----------|----------------|
| NAME:      | MOI DOUTHIT #262 |           |                |
| FOOTAGE:   | 1795' FSL        | 2280' FWL |                |
| SEC:       | 26               | TWN 27    | N.R. 11 W NMPM |
| CO:        | SAN JUAN         | ST:       | N.M.           |
| ELEVATION: | 6455             | DATE:     | 11-9-93        |

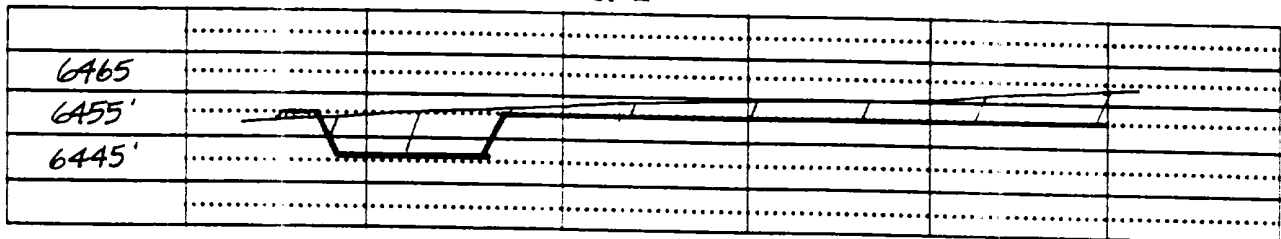


Reserve Pit Dike : to be 8' above Deep side; { overflow - 3' wide and 1' above shallow side. }

Blow Pit : overflow pipe halfway between top and bottom and extend over plastic liner and into blow pit.

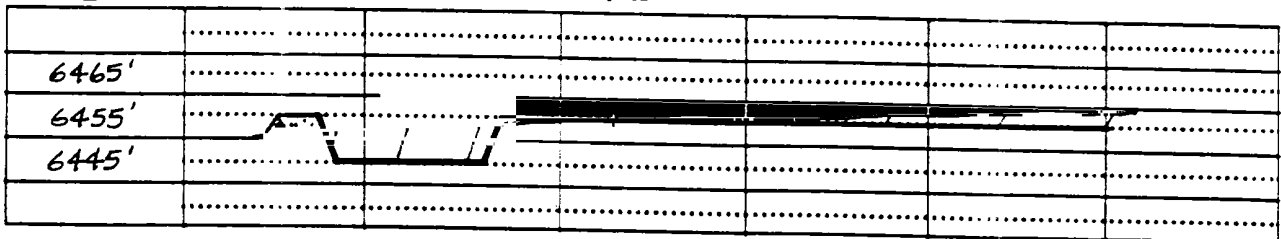
A-A'

C/L



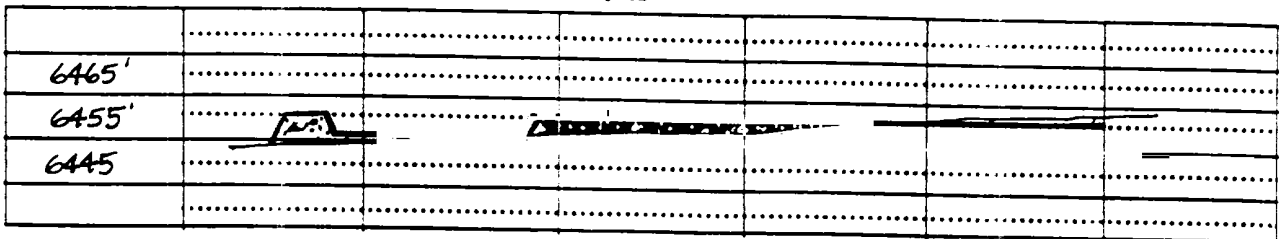
B-B'

C/L



C-C'

C/L



OPERATIONS PLAN

**Well Name:** Douthit #262  
**Location:** 1500'FSL, 1200'FWL, Section 26, T-27-N, R-11-W  
 San Juan County, New Mexico  
 Latitude 36° 32' 36", Longitude 107° 58' 39"  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6423'GL

| Formation       | Top        | Bottom | Contents |
|-----------------|------------|--------|----------|
| Surface         | Nacimiento | 950'   |          |
| Ojo Alamo       | 950'       | 1063'  | aquifer  |
| Kirtland        | 1063'      | 1820'  |          |
| Fruitland       | 1820'      | 2012'  | gas      |
| Pictured Cliffs | 2012'      |        |          |
| Total Depth     | 2012'      |        |          |

**Logging Program:** Mud logs from 1820' 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 |
| 200-2012' | 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 - 2012'      | 4 1/2"   | 10.5# | K-55  |

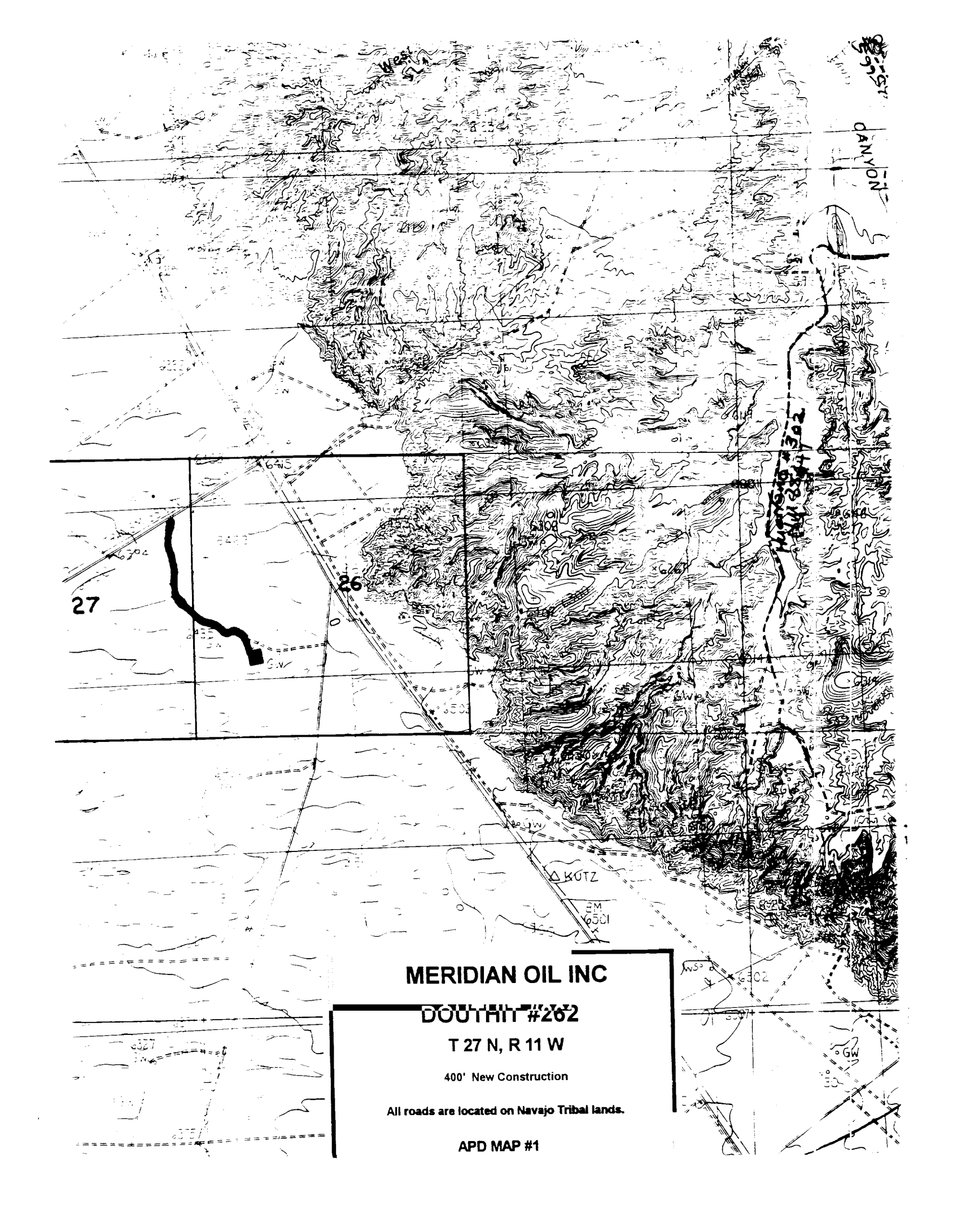
**Tubing Program:**

|           |        |      |      |
|-----------|--------|------|------|
| 0 - 2012' | 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 @ 1063'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1063'. 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.



**MERIDIAN OIL INC**

**DOUTHIT #262**

**T 27 N, R 11 W**

**400' New Construction**

**All roads are located on Navajo Tribal lands.**

**APD MAP #1**