

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 7-1-1  
Supersedes 6-1-1  
Effective 1-1-87

A. Distance to baseline from the outer boundaries of the Section

Meridian Oil Inc.

Section

Range

County

RECEIVED BY

JUL 10 1987

O. C. D.

ARTESIA, OFFICE

160

Strawn

Benson

1. Outline the acreage dedicated to the subject well by colored pencil or hair-bare marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to ownership interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners (both as to ownership interest and royalty) stated by communitization, unitization, forced 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 non-standard unit eliminating such interests has been approved by the Commission.

READING & BATES  
328978

READING & BATES  
328978

358650

MERIDIAN  
OIL INC.  
56541

CERTIFICATION

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

*Cathy Nokes*

Cathy Nokes

Engineering Tech III

Meridian Oil Inc.

4/14/87

LaRUE E. MUNCY | TEXACO  
27276 | 27281

MERIDIAN OIL INC.  
56541



U.S.

1650'

U.S.

I hereby certify that the well location shown on this plat was plotted from the 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  
April 14, 1987

Registered Professional Engineer  
and Land Surveyor

*John W. West*

Certificate No. JOHN W. WEST.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

IN REPLY  
REFER TO:

3162.41 PD (065)

Meridian Oil Inc.  
21 Desta Drive  
Midland, TX 79705

Dear Sir:

RECEIVED BY

JUL 10 1987

O. C. D.  
ARTESIA, OFFICE

APR 27 1987

Your application for Permit to Drill the Benson "34" Federal No. 1 well in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 34, T. 18 S., R. 30 E., Eddy County, New Mexico, lease NM-56541, to a depth of 11,100 feet to test the Strawn Formation in the Oil-Potash Area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Bureau of Land Management office checked on the attached special stipulations, in sufficient time for a representative to witness all cementing operations.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Sincerely,

*for* *Herbert H. Hubbard*  
Francis R. Cherry, Jr.  
District Manager

1 Enclosure

WELL FILE  
BILL DAWSON  
JEAN FUQUA  
LAND DEPT.  
BARBARA NOLAND  
CATHY NOKES  
EARLENE PARKER  
PRODUCTION SUPT.  
LISA POWERS  
DATE 5-1-87

*To the well?*  
*Perforations?*

*5-1-87*  
*10-1-87*  
*12-1-87*

*CRD-1-1441*

**MERIDIAN OIL INC.**

Benson "34" Federal No. 1  
1650' FSL & 1650' FEL  
Sec. 34, T-18-S, R-30-E  
Eddy County, New Mexico  
NM-56541

To supplement USGS Form 9-331C Application to Drill the following additional information is submitted concerning questions on Page 5 of NTL-6:

1. See Form 9-331C.
2. See Form 9-331C.
3. The geological name of surface formation is: Ochoa
4. See Form 9-331C.
5. See Form 9-331C.
6. The estimated tops of important geological markers are:

RustlerAnhydrite	400'	Delaware	3830'
Salt	650'	Bone Spring	6030'
B/Salt	1600'	Wolfcamp	9650'
Queen	2900'	Strawn Lime	10,740'
Grayburg	3375'		
San Andres	3575'		

7. The estimated depths at which anticipated water, oil gas and mineral bearing strata are as follows:

Strawn Lime 10,740' - Oil

8. See Form 9-331C. All casing will be new.
9. See Form 9-331C for depths of strings. Cement volumes and additions as follows:
  - a. 13 3/8" csg: Cement w/400 sxs Cl "C" cmt. Circ to surface.
  - b. 8 5/8" csg: Cement w/1000 sxs Lite cmt and 200 sxs Cl "C". Circ to surface.
  - c. 5 1/2" csg: Cement w/app 550 sxs Cl "H". TOC @ 9000'.

A caliper log will be run prior to setting 8 5/8" & 5 1/2" pipe to determine exact cement volumes required.

10. The pressure control diagram is attached to Form 9-331C. The following additional information is as follows:

13 3/8" casing installation: 13 5/8"-3M annular BOP tested to 1000 psi for 30 minutes before drilling out 13 3/8" casing shoe.

8 5/8" casing installation: 11"-5M BOP stack to be installed and tested by Yellow Jacket, Inc. to 3,000 psi before drilling the 8 5/8" casing shoe by Yellow Jacket, Inc. The BOP stack to consist of an annular BOP, blind ram BOP and one pipe ram BOP.

11. See Form 9-331C.
12. A. DST Program: (1) Strawn  
B. Core: None  
C. Mud Logging: Two Man Unit 2000'-TD  
D. Wire Line Logs:

The following suite of logs will be run in both of the listed intervals:

GR/CNL/FDC/Cal	TD-2000' (GR/CNL to surf)
GR/Dual Laterolog& MSFL	TD-2000'

13. No abnormal pressures anticipated with bottom hole pressures at TD expected to be 4400 psi. Bottom hole temperature 169° F. No Hydrogen Sulfide expected in this know drilling area. No crooked hole or abnormal deviation problems.
14. Anticipated starting date to spud - on or before 5-1-87. Anticipated drilling time expected to be 29 days from surface to TD.

C. Nokes  
04/09/87  
0144c:040987

## SURFACE USE PLAN

### MERIDIAN OIL INC.

Benson "34" Federal No. 1  
1650' FSL & 1650' FEL  
Sec. 34, T-18-S, R-30-E  
Eddy County, New Mexico  
NM-56541

This plan is submitted with Application to Drill on above described well. The minerals are federal and the surface is leased for grazing (See below for surface lessee). The purpose of this plan is to describe the location, proposed construction activities and operations plans, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operations.

#### 1. Existing Roads:

Exhibit "A" is a portion of a USGS Topograph map showing the location of the proposed well as staked.

Directions to the well are as follows: From Hobbs go West on 62-180 14 miles. Turn right on Hwy 529 and go 32 miles to deadend at Hwy 82. Turn left. Go 1/2 mile. Turn left on CR 222 (Old 31). Go 6 3/4 mi south and turn right on CR 250 (Grubbs Road). Go 4 1/2 miles west. Turn left and go 1/4 mile south to location.

#### 2. Planned Access Road:

- a. Access road will be 12' x 500' to the north of existing roads.
- b. Surfacing Material: 6" of caliche, watered, compacted and graded.

#### 3. Location of Existing Wells in Area:

See Exhibit "B"

#### 4. Location of Proposed Facilities:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad, no additional surface disturbance will be necessary.

#### 5. Water Supply:

- a. No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

#### 6. Source of Construction Material:

Caliche for surfacing access road and pad will be obtained from existing pit located in the W/2 of SW/4 NW/4 of Section 9. Must be aware of marked Archaeological site. The pit has been approved by BLM and suggested as a source of caliche for pad and road construction.

7. Handling Waste Disposal:

- a. Drill cuttings - disposed into drilling pits.
  - b. Drill fluids - allowed to evaporate in drill pits until pits dry.
  - c. Produced water during testing - drill pits.
  - d. Produced oil during testing - storage tank until sold.
  - e. Current laws and regulations pertaining to disposal of human waste will be observed.
  - f. Reserve pit will be plastic lined.
  - g. Waste paper, garbage, junk disposed of into special trash pit at location and covered with minimum of 24 inches of dirt upon completion of well. All waste material will be contained to prevent scattering by wind.
8. All trash and debris will be buried or removed from well site within 30 days after finish drilling and/or completion operations.

9. Ancillary Facilities:

None

10. Plans for Restoration of Surface:

- a. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
- b. Any unguarded pits containing fluids will be fenced until filled.
- c. After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.

11. Topography and Soil:

New Mexico Archaeological Services, Inc. Report by Dr. J. Loring Haskell will be sent as soon as it is received in this office.

12. Land Use:

Grazing and hunting - Federal

Surface Lessee - Snyder Ranch  
% Mr. Larry Squires  
P. O. Box 726  
Lovington, New Mexico 88260

13. Surface Ownership:

Bureau of Land Management (Federal)

14. Operators Representatives:

Field representatives (Responsible for compliance with approved surface use and operations plan):

Meridian Oil Inc.  
P. O. Box 65  
Loco Hills, New Mexico  
Office: 505/677-2233

Mr. Wayne Grubbs, Drilling Foreman  
Loco Hills, New Mexico  
Home: 505/677-2295

Mr. Bill Dawson, Drilling Superintendent  
Midland, Texas Office: 915/686-5600  
Home: 915/682-9037

15. Certification:

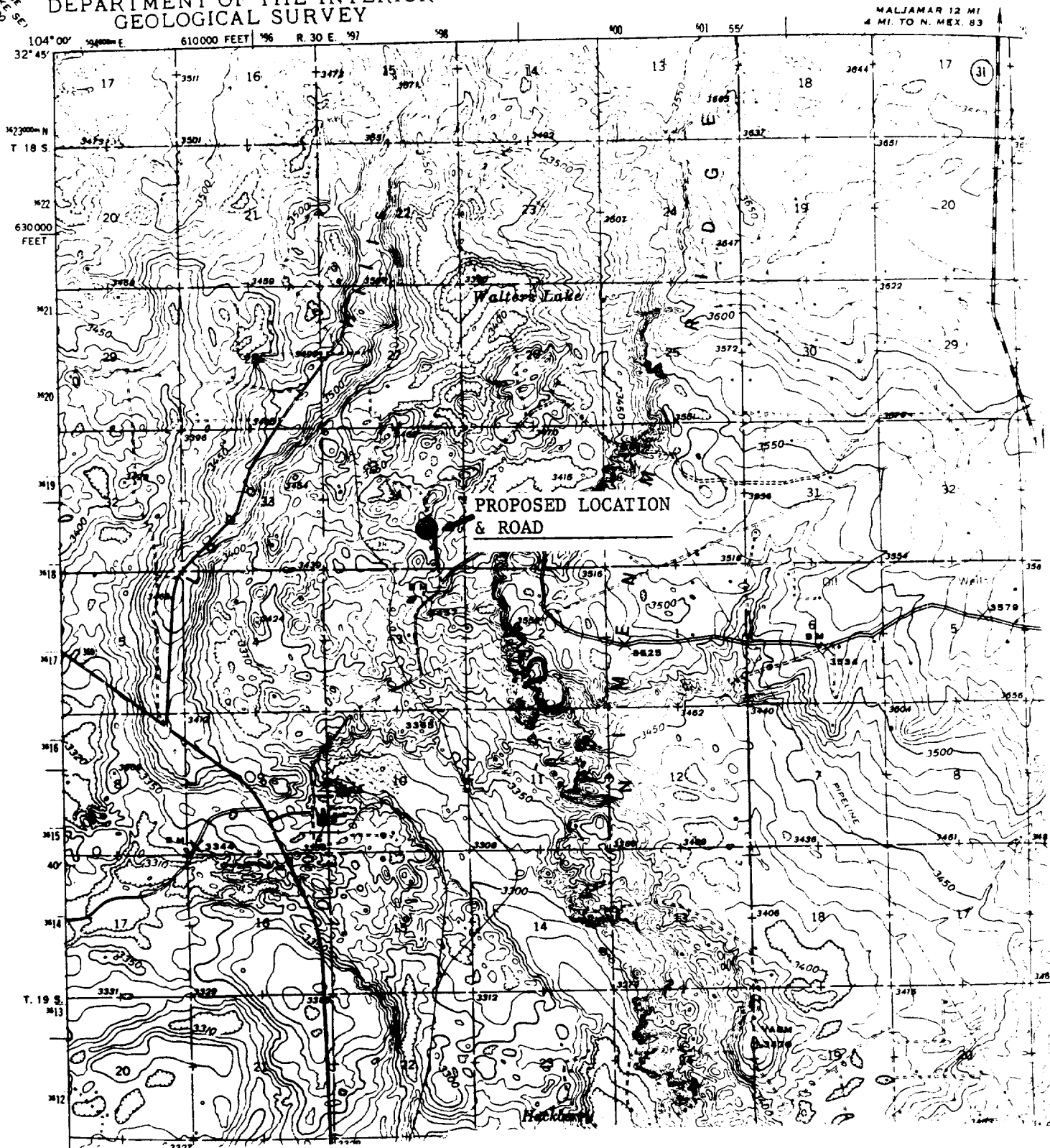
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

Date: 4/13/87

Darrell Roberts  
Darrell Roberts  
Senior Drilling Engineer  
Meridian Oil Inc.

C. Nokes/  
04/09/87  
0144c:040987

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



**MERIDIAN OIL**

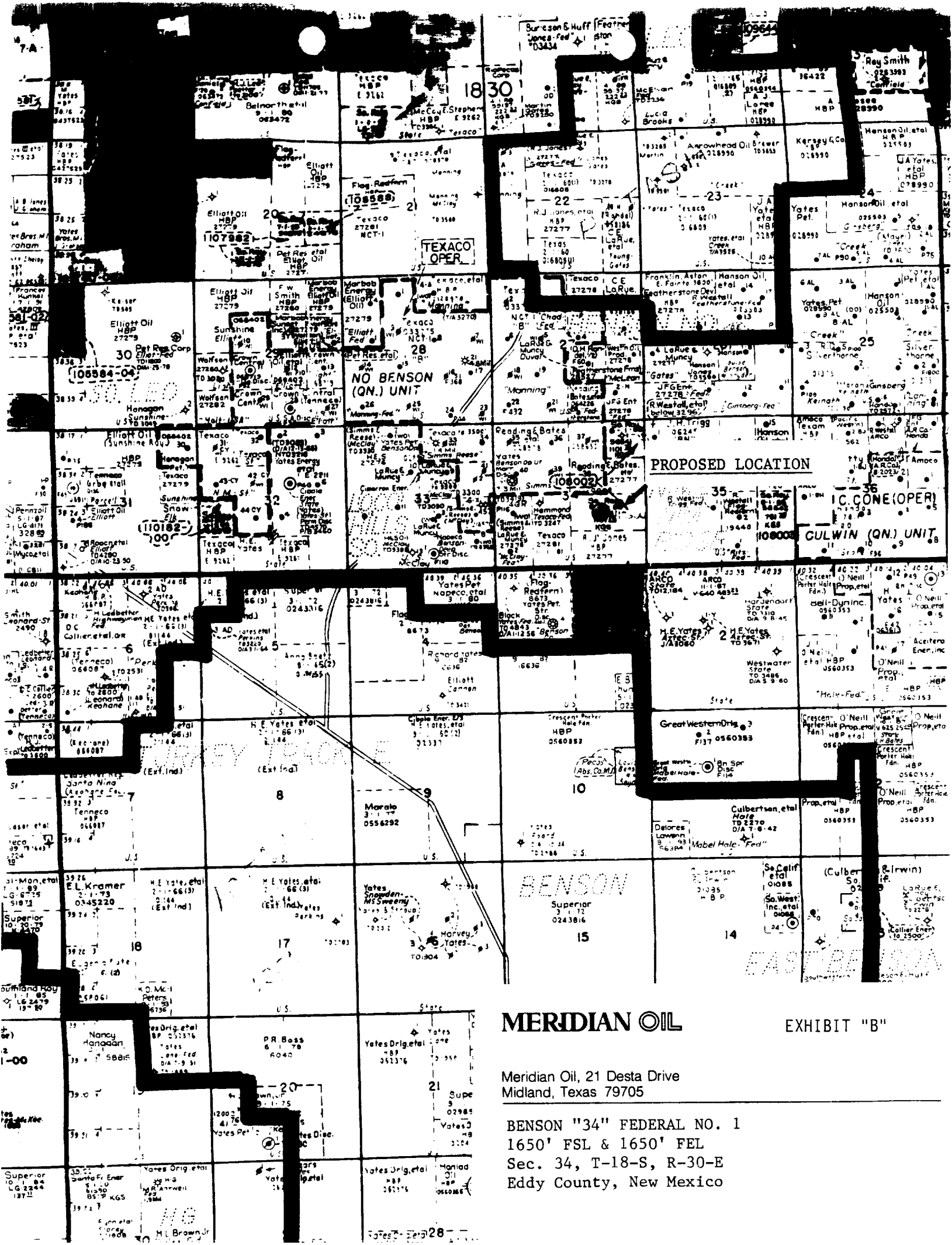
EXHIBIT "A"

Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

BENSON "34" FEDERAL NO. 1  
1605' FSL & 1650' FEL  
Sec. 34, T-18-S, R-30-E  
Eddy County, New Mexico

Map Reference: U.S.G.S. Topography Map 1979



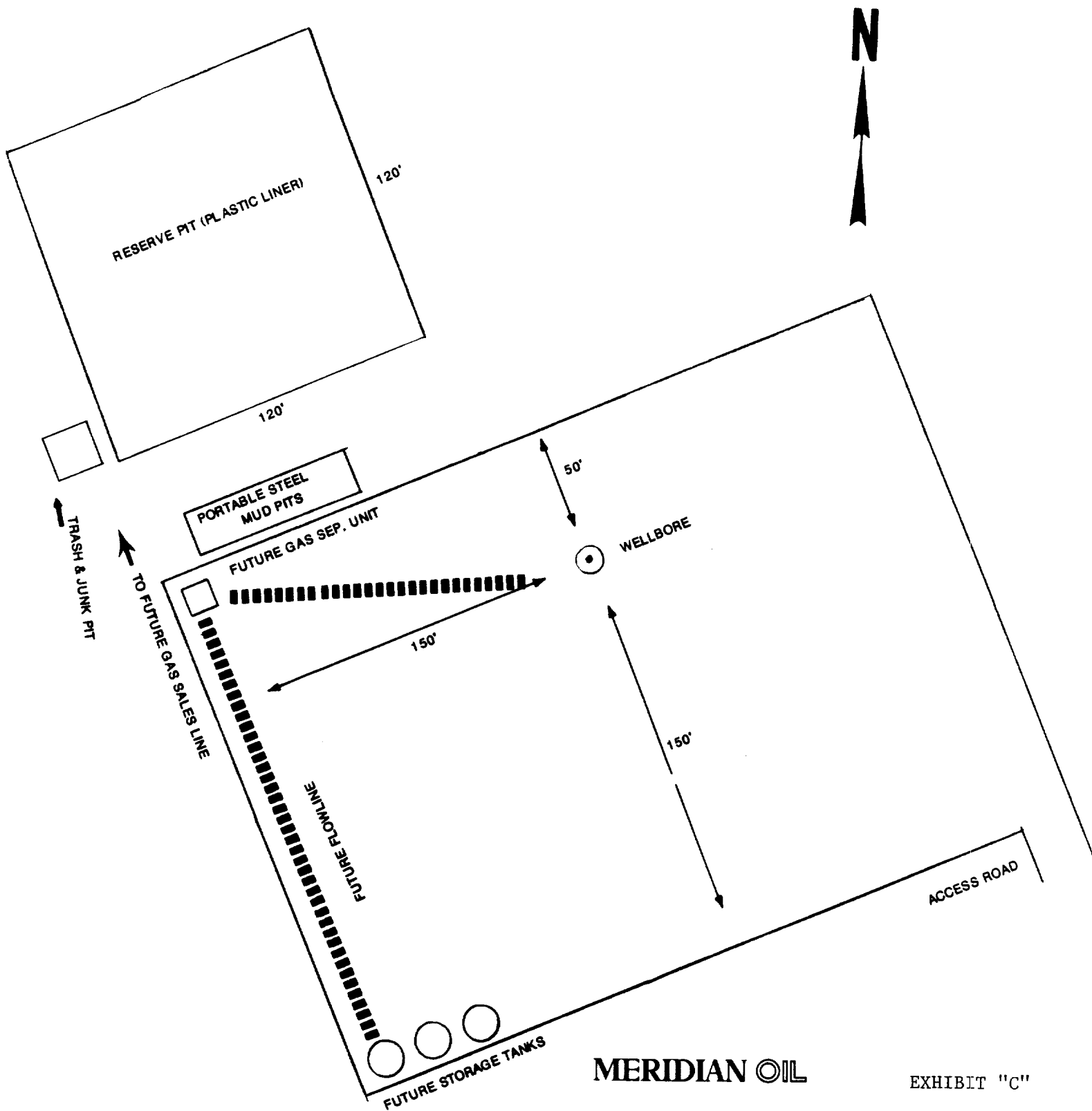


## MERIDIAN OIL

## EXHIBIT "B"

Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

BENSON "34" FEDERAL NO. 1  
1650' FSL & 1650' FEL  
Sec. 34, T-18-S, R-30-E  
Eddy County, New Mexico



**MERIDIAN OIL**

EXHIBIT "C"

Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

BENSON "34" FEDERAL NO. 1  
1650' FSL & 1650' FEL  
Sec. 34, T-18-S, R-30-E  
Eddy County, New Mexico

Scale 1" = 40'