

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM - 14987		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR MESA PETROLEUM CO.		7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR 1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701		8. FARM OR LEASE NAME GARCIA FEDERAL		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 660' FEL At proposed prod. zone SAME		9. WELL NO. 1		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 17 miles north of Roswell		10. FIELD AND POOL, OR WILDCAT X WILDCAT		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SEC 11, T8S, R24E		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		12. COUNTY OR PARISH CHAVES		
16. NO. OF ACRES IN LEASE 1760		13. STATE NEW MEXICO		
19. PROPOSED DEPTH 5000'		17. NO. OF ACRES ASSIGNED TO THIS WELL 320		
20. ROTARY OR CABLE TOOLS ROTARY		21. APPROX. DATE WORK WILL START* FEBRUARY 25, 1981		
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 3585.3' GR				
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	800'	Circulate to surface
11"	8 5/8"	24#	1600'	Sufficient to isolate water, O&G
7 7/8"	4 1/2"	10.5#	5000'	Sufficient to cover all pay

Propose to drill 17 1/2" surface hole to 800' or deeper with air to set 13 3/8" surface casing. Will reduce hole to 11" and continue drilling with air using rotating head for well control to 1500' or deeper to set 8 5/8" casing. Will install ram type BOP's and drill 7 7/8" hole to total depth using air, foam, or mud as required. After log evaluation, 4 1/2" production casing may be run and cemented with sufficient amounts and kinds of cement to isolate and seal off all water, oil, or gas strata encountered down to the casing point.

Gas sales are not dedicated.

FEB 10 1981

XC: USGS (6), TLS, HOBBS OFFICE, CEN RCDS. ACCTG. MEC, MAH, PARTNERS, FILE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R. E. Mathis TITLE REGULATORY COORDINATOR DATE JANUARY 9, 1981
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY (Orig. 2-1) GEORGE H. STEWART TITLE ACTING DISTRICT ENGINEER DATE FEB 24 1981
CONDITIONS OF APPROVAL, IF ANY:

**MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

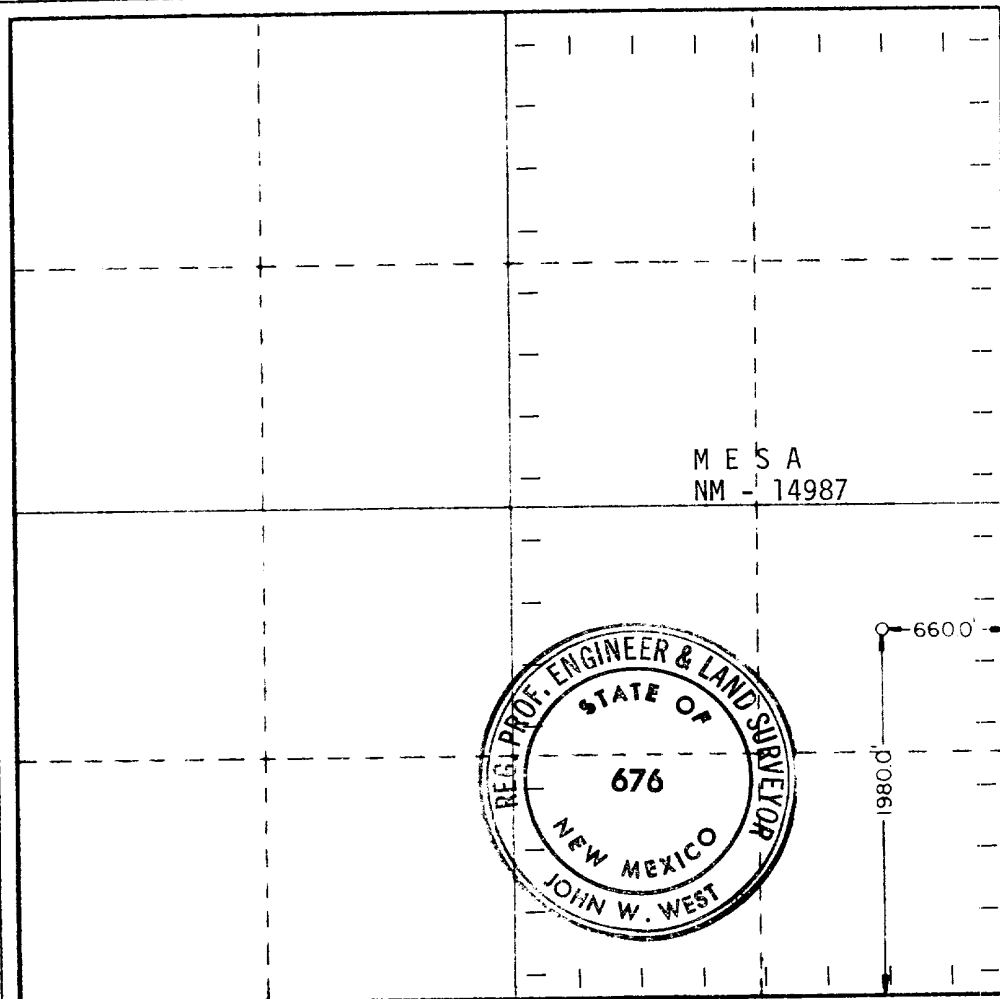
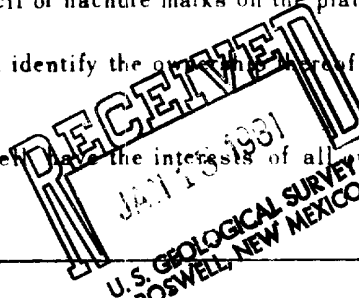
Operator Mesa Petroleum Co.			Lease Garcia Fed.		Well No. 1
Unit Letter I	Section 11	Township 8 South	Range 24 East	County Chaves	
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the East line					
Ground Level Elev. 3585.3	Producing Formation PENN	Pool WILDCAT		Dedicated Acreage: E/2 320 Acres	

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



CERTIFICATION

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

R. E. Mathis

Name

R. E. MATHIS

Position

REGULATORY COORDINATOR

Company

MESA PETROLEUM CO.

Date

JANUARY 9, 1981

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

04 December 1980

Registered Professional Engineer and Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6865
Ronald J. Eidson 3239

0 330 660 990 1320 1650 1980 2310 2640 2000 1800 1600 1400 1200 1000 800 600 400 200 0

APPLICATION FOR DRILLING

MESA PETROLEUM CO.
GARCIA FEDERAL #1
1980' FSL & 660' FEL, SEC 11, T8S, R24E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM - 14987

In conjunction with Form 9-331C, Application For Permit To Drill Subject Well, the following additional information is provided:

1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
2. Geological markers are estimated as follows:

Seven Rivers	Surface
San Andres	445'
Glorieta	1295'
Tubb	2540'
Abo	3270'
Hueco	3940'
Penn	4440'
Basement	4740'
3. Hydrocarbon bearing strata may occur in the Abo, Hueco, and/or Penn formations. No fresh water is expected to be encountered below 800'.
4. The casing and blowout preventer program will be determined by hole conditions as encountered. Anticipate drilling with air or foam using ram type preventer and rotating head for well control. The 13 3/8" casing will be set at approximately 800' to protect any fresh water zones and cemented to the surface. The 8 5/8" casing will be set at approximately 1600' and ram type preventers installed. Sufficient amounts and kinds of cement will be used to ensure any water, gas, or oil zones encountered are isolated and shut off down to the casing point. The 4 1/2" production casing will be set at total depth or shallower depending upon the depth of the deepest commercial hydrocarbon bearing strata encountered.

Application For Permit To Drill

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5. No drillstem tests or coring program is planned. The logging program may consist of a GR-CNL from surface to total depth and FDC from casing point to total depth.
6. Anticipated drilling time is fifteen days with completion operations to follow as soon as a completion unit is available.

MULTI-POINT SURFACE USE AND OPERATION PLAN

MESA PETROLEUM CO.
GARCIA FEDERAL #1
1980' FSL & 660' FEL, SEC 11, T8S. R24E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM - 14987



This plan is submitted with the Application for Permit to Drill the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operational plan in both the actual and post drilling-completion operations.

1. Existing Roads

- A. Exhibit I is a portion of a highway map showing the location of the proposed well as staked. The proposed well is approximately 17 miles north/northeast of Roswell, New Mexico.
- B. Directions: Travel north on Highway 285 from Roswell for 7.5 miles as measured from the Highway 70 overpass. Turn east on improved dirt road (Red Bluff Ranch) and travel in east/northeast direction for 7.5 miles (2/10 mile past cattleguard with large metal bull) and then westerly for 1.5 miles then southwest for 1.5 miles to the location.

2. Planned Access Road

- A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 4.5 miles of newly cut road.

(See Exhibit II for details)
- B. Construction: The new road will be constructed by grading and topping with compacted caliche. The surface will be crowned, with drainage on both sides. (See Exhibit III).
- C. Culverts, Gates, and Cattleguards: One cattleguard and shallow water crossing will be required.
- D. Cut and Fill: In order for the location to be level, approximately 3' of cut from the north side will be moved to the south side for fill.

3. Location of Existing Wells

Existing wells within a three-mile radius are depicted by Exhibit IV

4. Location of Existing and/or Proposed Facilities

If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, will be installed on the drilling pad.

5. Location and Type of Water Supply

It is planned to drill the proposed well with air (or fresh water if needed). The water would be obtained from commercial sources and would be trucked to the well site over the existing roads and the proposed access road shown on Exhibits I and II or pumped to the location thru temporary pipe from Bronson Corn's Ranch.

6. Source of Construction Materials

Caliche for surfacing the road and the wellsite pad will be obtained by the dirt contractor from the Federal Government or private sources. Top soil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except for those necessary for the actual grading and leveling of the drillsite and access road.

7. Methods of Handling Waste Disposal

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing material to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.

- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing and/or completion operations.
8. Ancillary Facilities: None required.
9. Wellsite Layout:
 - A. Exhibit V shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
 - B. Some leveling of the wellsite will be required. See Exhibit II for additional details.
 - C. The reserve pit will be plastic lined.
10. Plans for Restoration of the Surface:
 - A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment, if drying conditions permit.
11. Other Information:
 - A. Topography: The land surface in the vicinity of the wellsite is gently sloping to the south.
 - B. Soil: The topsoil at the wellsite is sandy loam.
 - C. Flora and Fauna: The vegetative cover consists of Tabosa and other prairie grasses, creosote bush, yucca, cactus, prairie flowers and other miscellaneous desert growth. Wildlife in the area probably includes those typical of semi-arid desert land. The area is used for grazing.

- D. Ponds and Streams: There are no rivers, streams, lakes, or ponds in the area with the exception of the Macho Draw lying 1 mile to the south which carries water to the Pecos River during wet periods.
- E. Residences and Other Structures: There are no residences or other structures in the vicinity of the proposed well.
- F. Land Use: Grazing.
- G. Surface Ownership: The wellsite is on Federal surface.
- H. There is no evidence of any major archaeological, historical, or cultural sites in the area. NMAS, Inc. has conducted an archaeological study of this site and provides this report to interested parties.

12. Operator's Representatives:

- A. The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

J. Wootten
P. O. Box 1756
Hobbs, New Mexico 88240
(505-393-4425) - Office
(505-393-6033) - Home

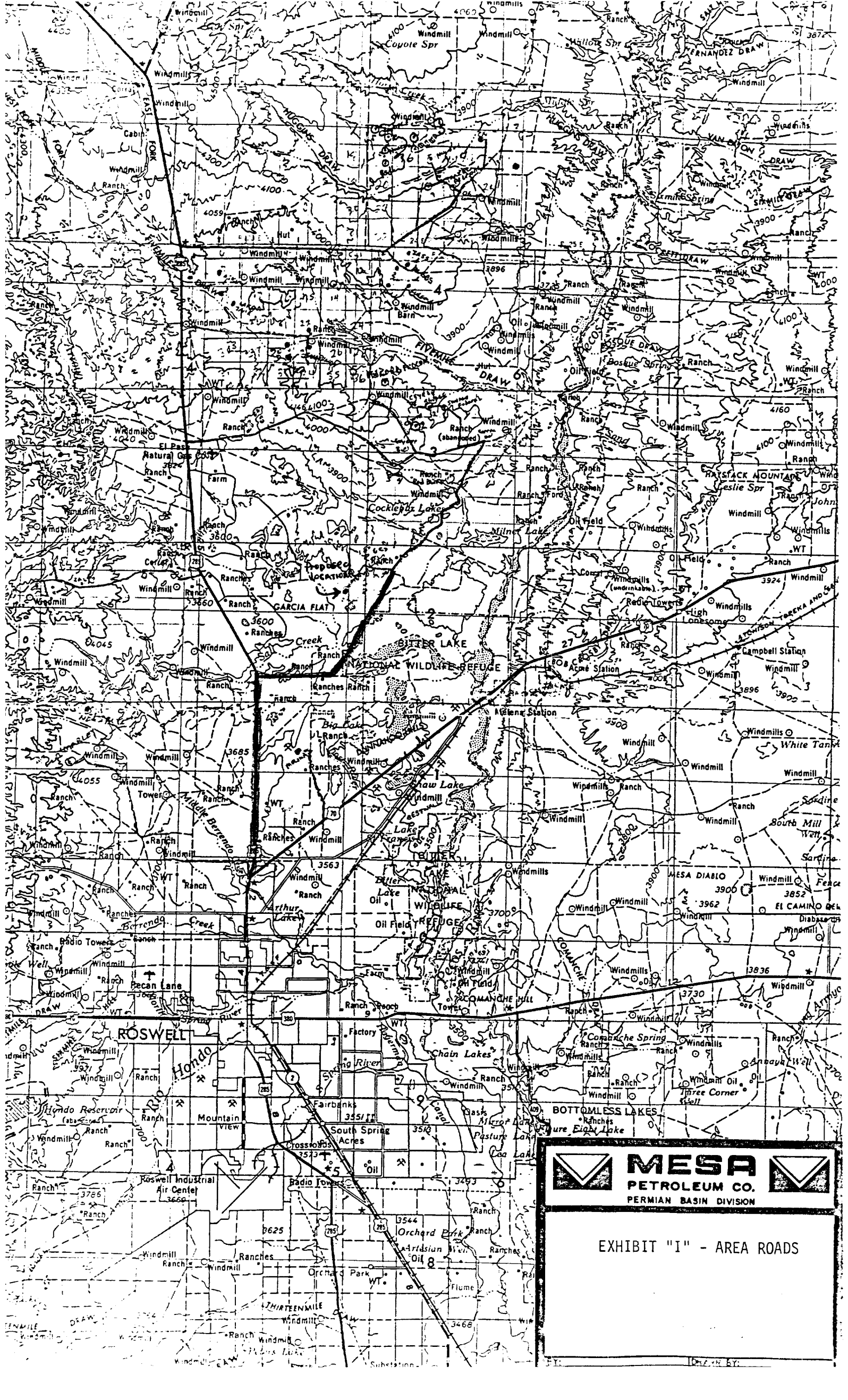
C. C. Wheeler
1000 Vaughn Building
Midland, Texas 79701
(915-683-5391) - Office
(915-683-6123) - Home

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Mesa Petroleum Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

January 9, 1981
DATE

Michael P. Houston
Michael P. Houston
Operations Manager





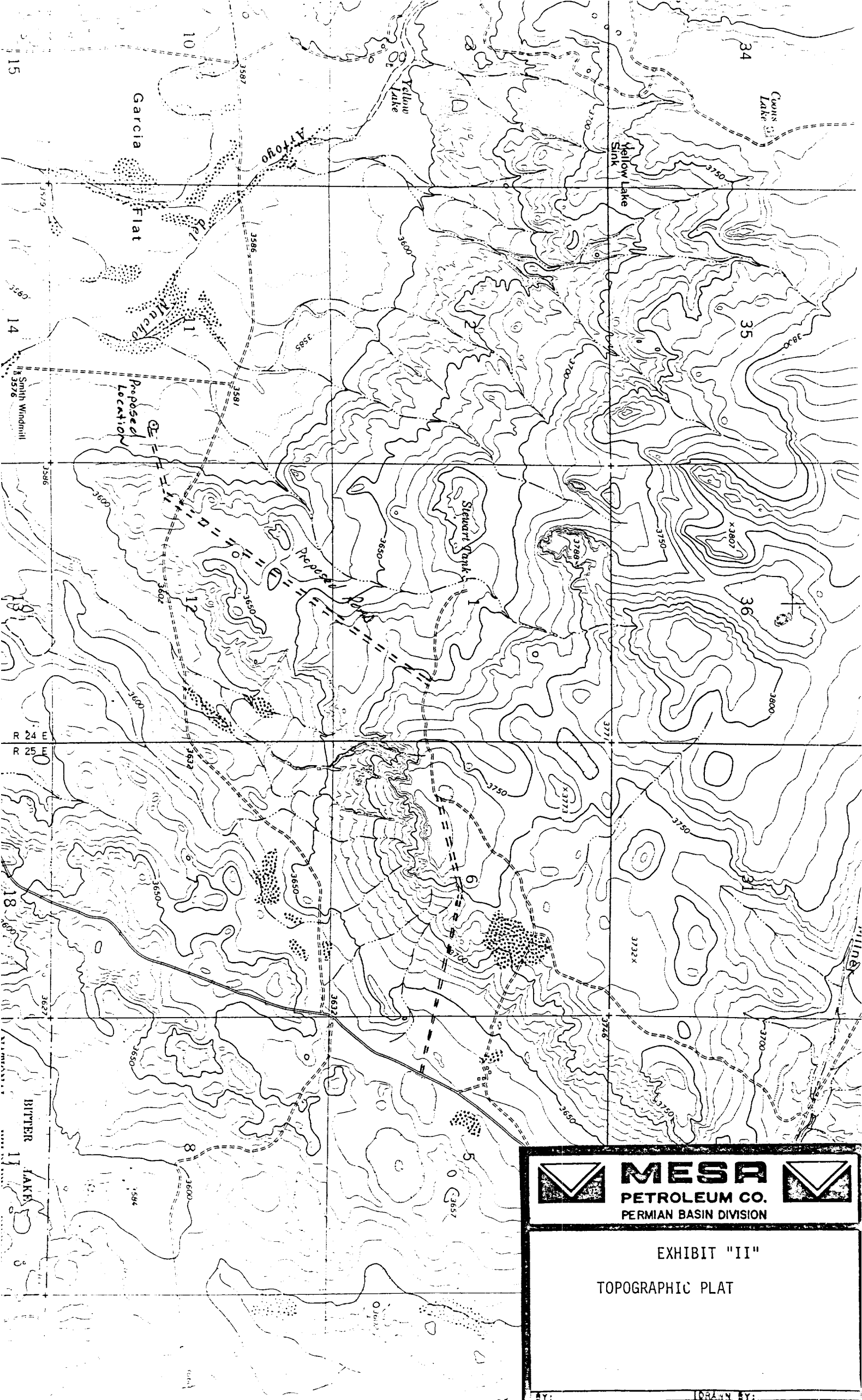
**MESA**
PETROLEUM CO.
PERMIAN BASIN DIVISION

EXHIBIT "I" - AREA ROADS

BY: 10-1-44 BY:



**MESA**
PETROLEUM CO.
PERMIAN BASIN DIVISION

EXHIBIT "II"

TOPOGRAPHIC PLAT

108844N 5Y:

