

1 10.00

SUBMIT IN 7 LICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-00560865
5. LEASE DESIGNATION AND SERIAL NO.

NM-33943

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Melena Federal

WELL NO.

10. FIELD AND POOL, OR WILDCAT

X Wildcat

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREAU L - C
Sec 15, T9S, R24E

12. COUNTY OR PARISH 13. STATE

Chaves New Mexico

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Mesa Petroleum Co.

3. ADDRESS OF OPERATOR

1000 Vaughn Building/Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

660' FNL & 1980' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7 miles north of Roswell

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

2280

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

4800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3589.9' GR

22. APPROX. DATE WORK WILL START*

February 15, 1981

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#	1500'	Sufficient to isolate water
7-7/8"	4-1/2"	10.5#	4800'	Oil or gas zones

Propose to drill 17-1/2" hole to 800' on air. Will set 13-3/8" casing and cement to surface. Will reduce hole to 11" and drill to 1500' to set 8-5/8" intermediate string. Will nipple up ram type BOP's and reduce hole to 7-7/8" to total depth using air, foam, or mud as required. After log evaluation, 4-1/2" casing may be run and cemented with sufficient kinds and amounts to isolate and seal off any fresh water, oil, or gas zones encountered after the casing point.

RECEIVED

Gas sales are not dedicated.

FEB 10 1981

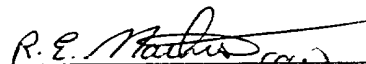
O. C. D.
ARTESIA, OFFICE

xc: USGS(6), TLS, CEN RCDS, ACCTG, HOBBS OFFICE, 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



TITLE

Regulatory Coordinator

DATE

1-9-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

GEORGE H. STEWART

TITLE

ACTING DISTRICT ENGINEER

DATE

FEB 10 1981

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NL MEXICO OIL CONSERVATION COMMISS
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

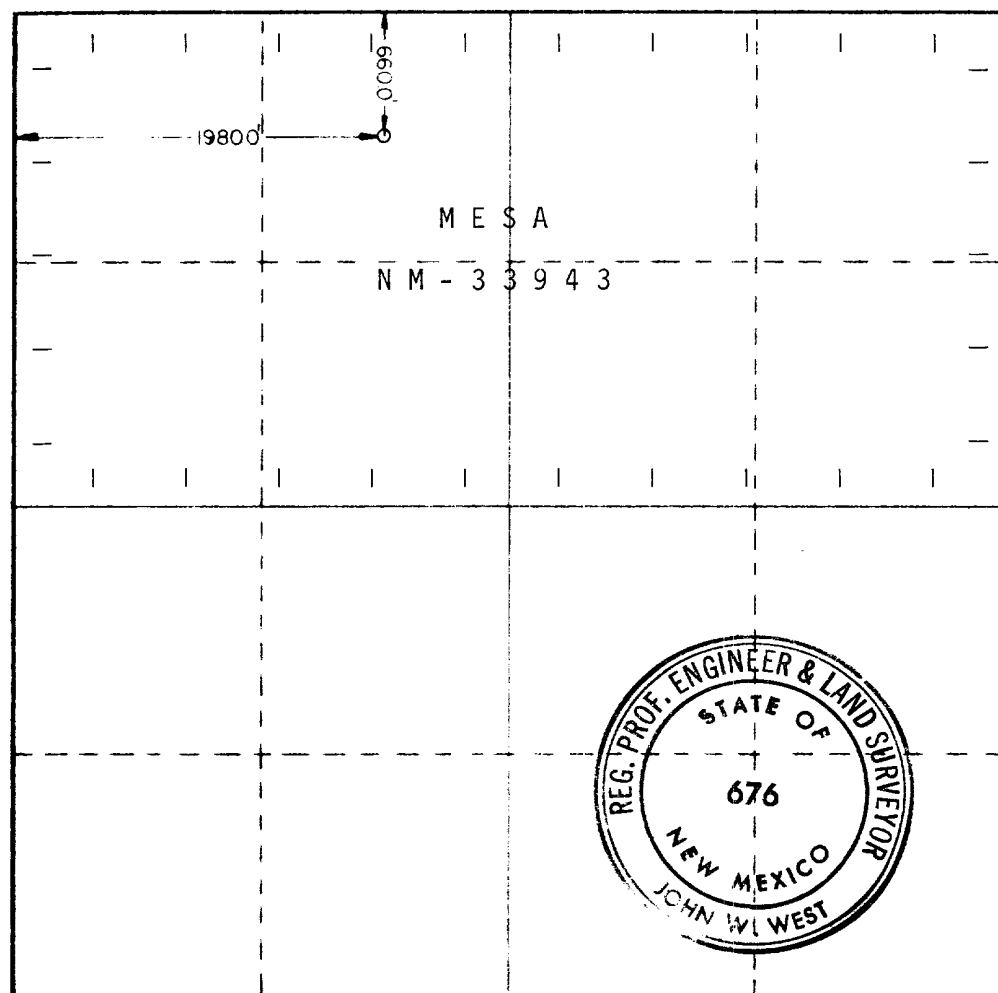
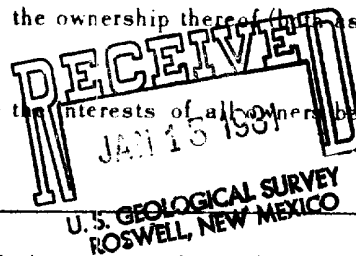
Operator Mesa Petroleum Co.		Lease Melena Fed.		Well No. 1	
Unit Letter C	Section 15	Township 9 South	Range 24 East	County Chaves	
Actual Surface Location of Well: 660 feet from the North line and 1980 feet from the West line.					
Ground Level Elev. 3589.9	Producing Formation PENN	Pool WILDCAT		Dedicated Acreage: N/2 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (that is 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

1-9-81

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.

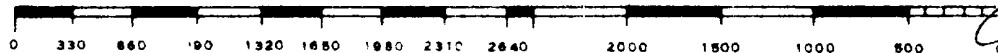
Date Surveyed

03 December 1980

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6863
Ronald J. Eidson 3239



APPLICATION TO DRILL
MESA PETROLEUM CO.
MELENA FEDERAL #1
660' FNL & 1980' FWL, Sec. 15, T9S, R24E
CHAVES COUNTY, NEW MEXICO
LEASE NO. NM-33943
JANUARY 9, 1981

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:

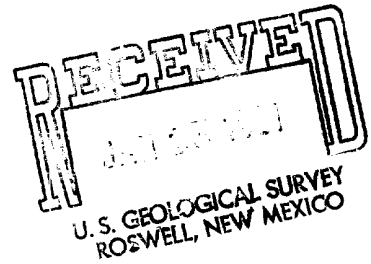
Alluvium	Surface
San Andres	400'
Glorieta	1255'
Tubb	2495'
Abo	3225'
Hueco	3895'
Penn	4395'
Basement	4695'

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 fresh 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.
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 ten days with completion operations to follow as soon as a completion unit is available.

MULTI-POINT SURFACE USE AND OPERATION PLAN

MESA PETROLEUM CO.
MELENA FEDERAL #1
660' FNL & 1980' FWL, Sec. 15, T9S, R24E
CHAVES COUNTY, NEW MEXICO

LEASE: NM-33943



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 7 miles north of Roswell, New Mexico.
- B. Directions: Take 285 north to junction with U.S. 70. Take US 70 east for approximately 3.5 miles. Turn north on county road for 2.5 miles. Turn west thru cattleguard for 1/2 mile to location.

2. Planned Access Road

- A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 1/2 mile long.

(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 will be required.
- D. Cut and Fill: In order for the location to be level, approximately 2' of cut from the east side will be moved to the west side for fill.

3. Location of Existing Wells

Existing wells within a 3 -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.

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 a 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: None
- 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 but 1000' of access road will be across private land.
- H. There is no evidence of any major archeological, historical, or cultural sites in the area. NMAS, Inc. has conducted an archeological study of this site and provides this report to interest parties.

5. Location and Type of Water Supply

It is planned to drill the proposed well with air. If water is needed, it will be obtained from commercial sources and will be trucked to the wellsite over the existing roads and the proposed access road shown on Exhibits I and II or piped in by temporary line from a nearby source.

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 finished 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 III for additional details.
- C. The reserve pit will be plastic lined.

12. Operator's Representatives:

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

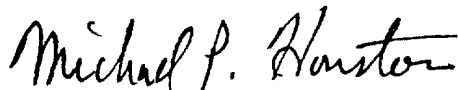
J. Wootten
P.O. Box 1756
Hobbs, New Mexico 88240
(505-393-4425) - Office
(505-393-6033) - Home

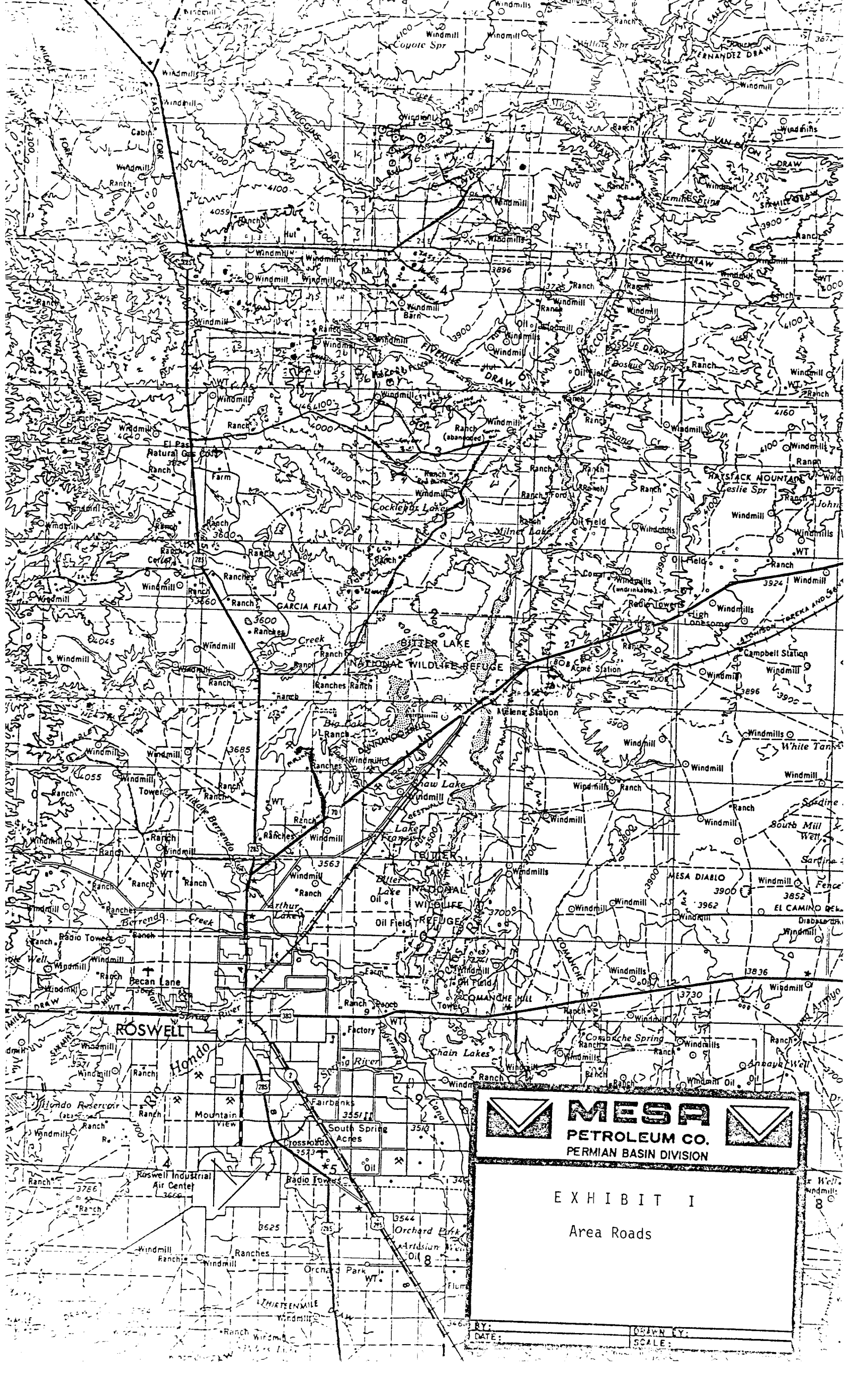
C.C. Wheeler
1000 Vaughn Building
Midland, Texas 79701
(915-683-5391) - Office
(915-683-6123) - Home


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
Operations Manager





MESA

PETROLEUM CO.

PERMIAN BASIN DIVISION


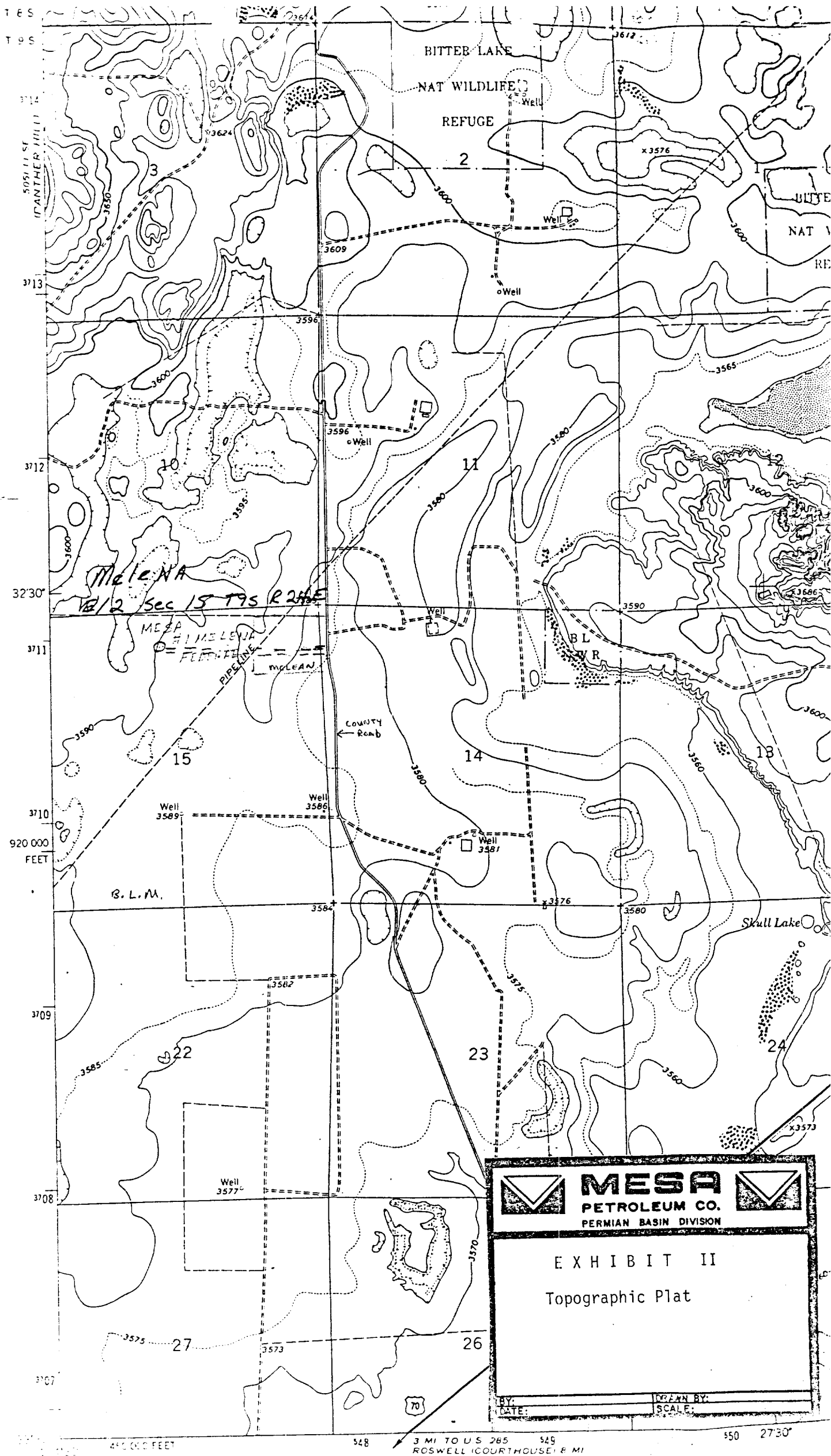


EXHIBIT I

Area Roads

DATE: _____

SCALE: _____



Map compiled, edited, and published by the Geological Survey

