NM OIL CONS. COMMISSION.

Drawer F

SUBMIT IN TP-LICATE\* (Other instrums on reverse slue)

Form approved. Budget Bureau No. 42-R1425.

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XC: USGS (6), TLS, CEN RCDS, ACCTG, ROSWELL, MEC, LAND, 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.

signed R. E. Martin	TITLE _	REGULATORY	COORDINATOR	DATE _	JULY 23, 1981	
(This space for Federal or State office use)  APPROVED  Orig. Sgd.) GEORGE H. STEWASA		APPROVAL DATE		DATE		_
CONDITIONS OF APPRIATE AND SUBSECTION OF APPRIAT	TITLE _	ons On Reverse	Side			_

# MEXICO OIL CONSERVATION COMMIS. N WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-138 Effective square

Ronald J. Eidson

All distances must be from the outer boundaries of the Section Mesa Petroleum Co. Bend Federal Section ?c wn ship 19 South 23 East Chaves tige Location of Weil: 550 scuth feet from the ine cond cast leet from the Producing Formation 3403.4 Actin 1760 **UNDESIGNATED** ABO SE/4 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 (both as to working 3 If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli dated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation \_ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (I se reverse side -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 Commis I hereby certify that the information cotained herein is true and complete to the R. E. MATHIS REGULATORY COORDINATOR MESA PETROLEUM CO. JULY 23, 1981 1 MESA 6-19-31 660 Registered Fratessking Engineer PATRICH A. ROMERO 2000 1000 80 g

### APPLICATION FOR DRILLING

MESA PETROLEUM CO.
BEND FEDERAL #2
660' FSL & 660' FEL, SEC 19, T8S, R23E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 36642

In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

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

San Andres		Surface
Glorieta		521 '
Yeso		706 '
Tubb		2131'
Abo	_	2781'
Hueco	÷ .	3381 '

- 3. Hydrocarbon bearing strata may occur in the Abo formation(s). No fresh water is expected to be encountered below 1000'.
- 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 8 5/8" casing will be set at approximately 1500'to protect any fresh water zones and cemented to the surface. 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. Sufficient amounts and kinds of cement would be used to ensure any water, gas, or oil zones encountered are isolated and shut off dowr to the casing point, if run.
- 5. No drill stem 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.

BEND FEDERAL #2

660' FSL & 660' FEL, SEC 19, T8S, R23E

CHAVES COUNTY, NEW MEXICO

JUL 24 1981

U.S. GEOLOGICAL SURVEY
MOSWELL, NEW MEXICO

LEASE NO: NM 36642

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 approxmately 12 miles north of Roswell, New Mexico.
- B. Directions: Travel North of Roswell on US Highway 285 until just before mile marker 117 and then turn west thru cattleguard. Travel Westerly on lease road for 8 miles (past Ned State #1) then Northwesterly 1 1/2 miles then take West for 1/2 mile then turn back East 1/4 mile then North 1 mile to the location.

### 2. Planned Access Road:

A. Length and width: The new access road will be 12' wide (20' ROW) and approximately 1 mile of new road.

(See Exhibit II)

- 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: None
- D. Cut and Fill: In order for the location to be level, approximately 3' of cut from the West side will be moved to the East side for fill.

# 3. <u>Location of Existing Wells:</u>

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

Multi-Point Surface Use and Operation Plan

#### Page 2

### 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. If needed, water

will be obtained from commercial sources and will be trucked to the wellsite over the existing roads and proposed access road shown on Exhibits I and II or piped in from a nearby source.

#### 6. Source of Construction Materials:

Caliche for surfacing the road and wellsite pad will be obtained by the dirt contractor from an approved pit. Probable pit is located: Unknown.

### 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 wellsize within 30 days after finished and/or completion operations.

#### 8. Ancillary Facilities: None required.

#### Page 3

### 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 may be required. See Exhibit III for additional details.
- C. The reserve pit will not 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 aestheticall/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 sloping to the North.
- B. Soil: The topsoil at the wellsite is sandy loam.
- C. Flora and Fauna: See the Archaeological Report filed by NMAS, Inc. for a description of vegetative types.
- D. Ponds and Streams: Salt Creek is 1/4 mile North.
- E. Residences and Other Structures: None.

# Multi-Point Surface Use and Operation Plan

#### Page 4

- F. Land Use: Grazing.
- G. Surface Ownership: The wellsite is on private surface (Dick Corn).
- 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:

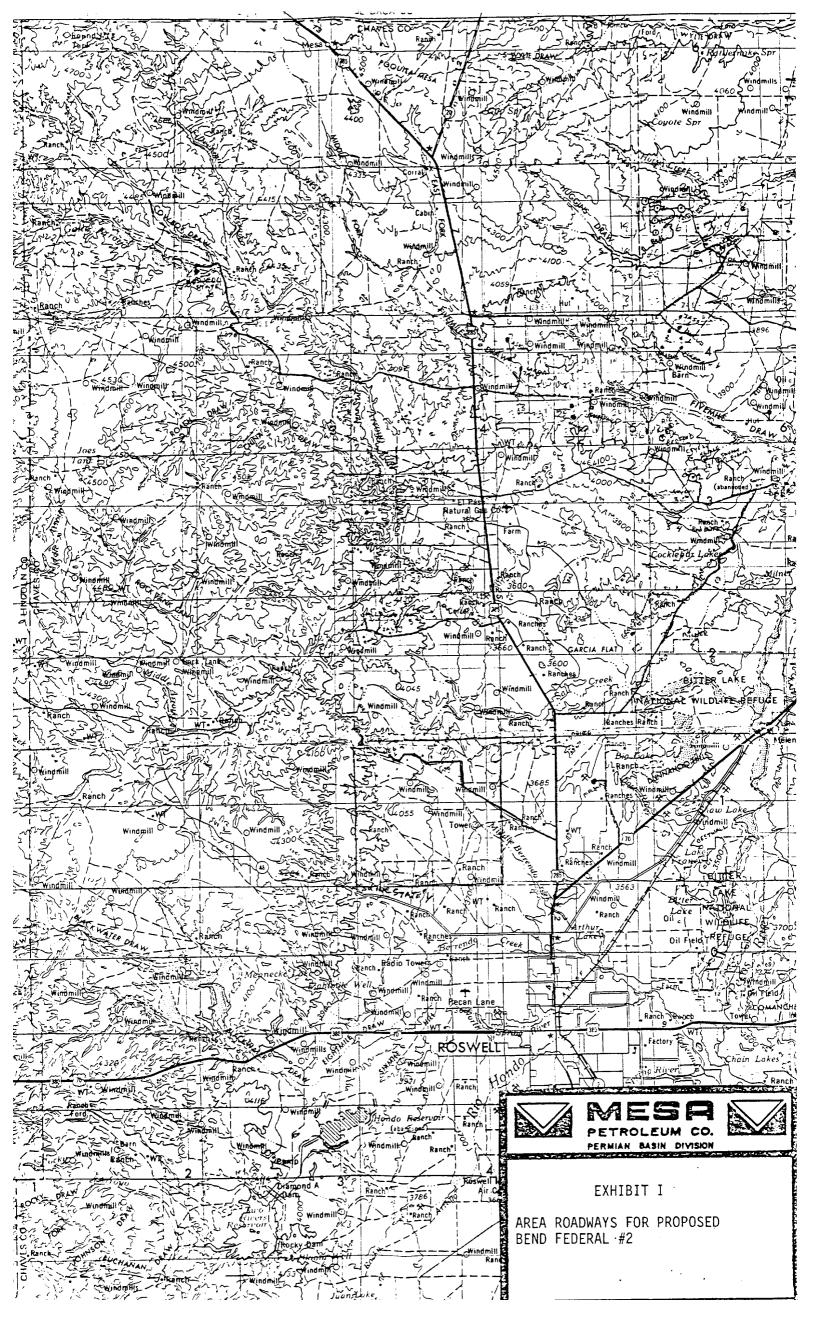
A. The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

J. James P. O. Box 298 Roswell, New Mexico (505-622-0992) - Office (505-622-0234) - Home W. R. Miertschin 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-682-6535) - Home

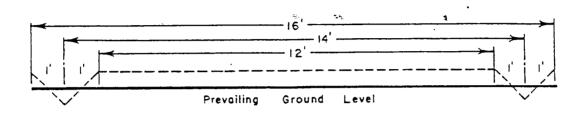
# 13. Certification:

I hereby certify that I, or person 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.

July 23, 1981 DATE MICHAEL P. HOUSTON OPERATIONS MANAGER

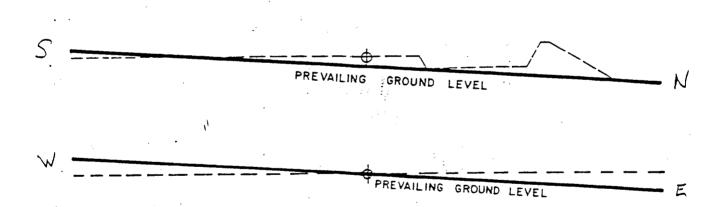


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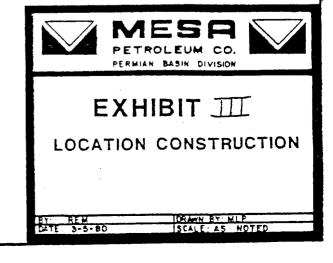
# ROADWAY CROSS SECTION

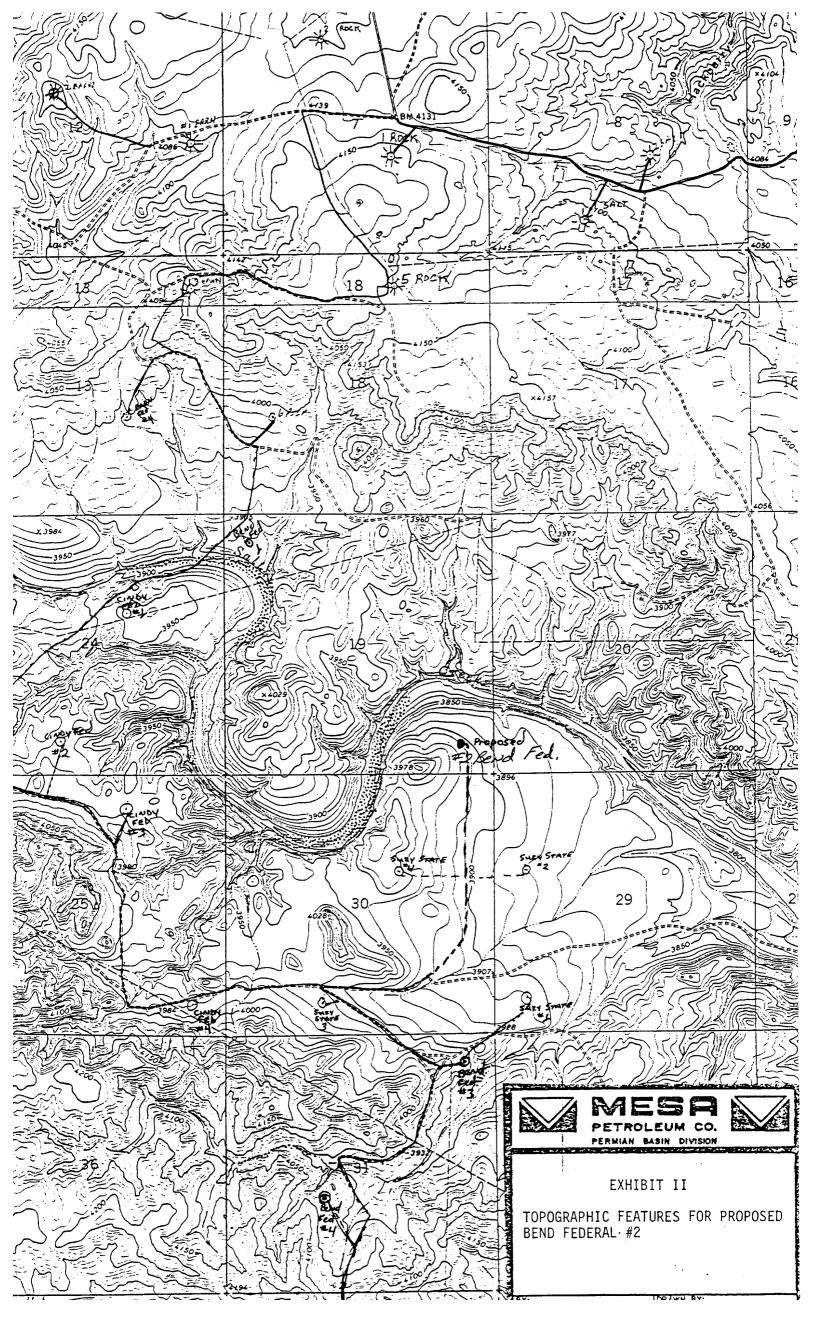
Horizontal Scale 1" = 3'



# LOCATION CROSS SECTION

Horizontal Scale 1" = 50'





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