23.

NM OID Drawer TD NM 88210 UNITED STATES

6000'

SUBMIT IN 'LICATE\* (Other instructions on reverse side)

Form a	approved	l.	40 54
Duuget	Bureau	No.	42-R1425
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DEPARTMENT OF THE	INTERIOR	5. LEASE DESIGNATION AND SERIAL NO.
C/SF GEOLOGICAL SUR	VEY	NM-16324
APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG B	ACK 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
DRILL X DEEPEN b. TYPE OF WELL		
OIL GAS WELL OTHER	SINGLE MULTIP	8. FARM OR LEASE NAME
2. NAME OF OPERATOR  MESA PETROLEUM CO.		CHARLOTTE FEDERAL
3. ADDRESS OF OPERATOR 1000 VAUGHN BLDG./ MIDLAND, TEXAS	79701-4 <b>4</b> 93 RECEN	/ED 10. FIRLD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance and surface	with any State requirements.*)	∠UNDESIGNATED ABO
660' FNL & 660' FWL NW, At proposed prod. zone	/4 NW/4 NOV 2	1991 11. SEC., T., B., M., OE BLE.  AND SURVEY OR AREA  LL -D
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR P		SEC 30, T7S, R26E  12. COUNTY OR PARISH 13. STATE
20 miles north/northeast of Roswell	, New Mexico ARTESIA, O	CHAVES NEW MEXICO
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'/660'	16. NO. OF ACRES IN LEASE 787.58	17. NO. OF ACRES ASSIGNED TO THIS WELL 160
18. DISTANCE FROM PROPOSED LOCATION*	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3625 GR

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

20. ROTARY OR CABLE TOOLS ROTARY

22. APPROX. DATE WORK WILL START\* NOVEMBER 7, 1981

4450'

PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 13 3/8" 900 17 1/2" 48# SURFACE 11" 8 5/8" 24# 1600' ISOLATE WATER, OIL & GAS 772" 10.5# 4450' 7 7/8" COVER ALL PAY

Propose to drill 17 1/2" hole to approximately 900' to set 13 3/8" surface casing and cement to surface. Will reduce hole to 11" and drill to approximately 1600' to set 8 5/8" casing. Will nipple up RAM type BOPs, reduce hole to 7 7/8" and drill to total depth. Drilling medium will be air, foam, or mud as required.

Gas Sales are Dedicated.

OIL & GAS U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO

xc: USGS (6), TLS, CEN RCDS, ACCTG, MEC, ROSWELL, LAND, PARTNERS, FILE, REM

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. G. Mark	REGULATORY COORDINATO	R SEPTEMBER 30, 1981
(This space for Federal or State office use)	APPROVED	
PERMIT NO.	APPROVAL DATE	
APPROVED BY	OCT 3-0-1981	DATE
	JAMES A. GRUSAM FRACTICT SUPERVICES *See Instructions On Reverse Side	

ENERGY AND MINERALS DEPARTMENT All distances must be from the outer houndaries of the Sec. on. Well No. retolof Charlotte Federal Mesa Petroleum Co County Town ship ull Letter 26 East Chaves 7 South 30 clua! Pastage Location of Well: 660 West line " feet from the North feet from the 660 Dedicated Acreoge: Producing Fermotton round Level Elev. NW/2 160 UNDESIGNATED Acres AB0 3625 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 (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? If answer is "yes," type of consolidation No 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, unifization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contoined herein is true and complete to the MES MATHIS REGULATORY COORDINATOR Company MESA PETROLEUM CO NM 16324 SEPTEMBER 30, 198 I hereby certify that the well location R.26 E., N.M.P.M. I Sec. 30, T.7 S. shown on this plot was platted from field notes of octual surveys made by me or under my supervision, and that the some is true and correct to the best of my knowledge and belief. & L.S 600 1000 10 40 1370 16 00

MESA PETRULEUM CO.

CHARLOTTE FEDERAL #1

660 FNL & 660' FWL, SEC 30, T7S, R2JE

CHAVES COUNTY, NEW MEXICO

LEASE NO - 16324

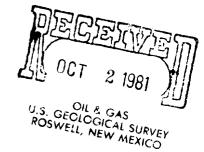
In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

- 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	461
Glorieta	1447
Tubb	2990
Abo	3681

- 3. Hydrocarbon bearing strata may occur in the ABO formation(s). No fresh water is expected to be encountered below 900'.
- 4. The Casing and Blowout Preventer Program will be determined by hole conditions as encountered. (See Exhibit VI) 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 900' to protect any fresh water zones and cemented to the surface. The 8 5/8" casing will be set at approximately 1600' if water zones have been encountered or omitted if not and ram type preventers installed. Sufficient amounts and kinds of cement would be used to ensure any water, gas, or oil zones encountered are isolated and shut off down to the casing point if run. 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 drill stem tests or coring program is planned. The logging program may consist of a GR-CNL from surface 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 CHARLOTTE FEDERAL #1 660' FNL & 660' FWL, SEC 30, T7S, R26E CHAVES COUNTY, NEW MEXICO LEASE NM - 16324



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 25 miles northeast of Roswell, New Mexico
- B. Directions: Travel north from Roswell on US Highway 285 to mile marker 122 and turn east on "Red Bluff Ranch" road for approximately 8 miles then turn east 2 1/2 miles to the location.

# 2. Planned Access Road:

A. Length and width: The new access road will be 12' wide (20' ROW) and approximately 300' 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' will be moved from the west to the east for fill.

# 3. Location of Existing Wells:

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

#### 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 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.

#### 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 wellsite 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 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: See NMAS, Inc. Report
- B. Soil: The topsoil at the wellsite is sandy loam.
- C. Flora and Fauna: See NMAS, Inc. Archaeological Report for vegetative types.
- D. Ponds and Streams: The Pecos River is 1.5 miles to the east.
- E. Residences and Other Structures: Crawford Ranch is 1/2 mile to the southwest.

### Multi-Point Surface Use and Operation Plan

#### Page 4

- F. Land Use: Grazing.
- G. Surface Ownership: The wellsite is on federal surface.
- H. 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

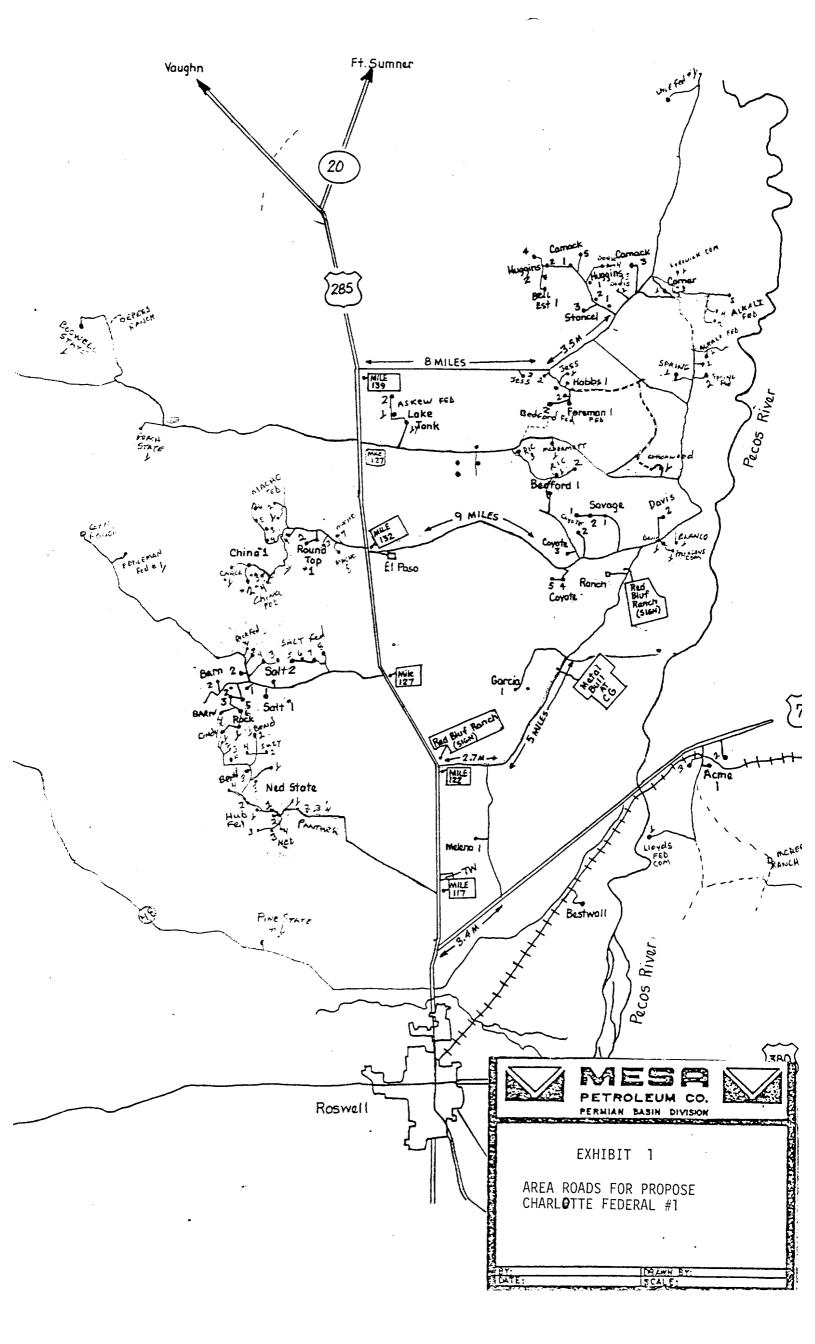
#### 13. Certification:

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.

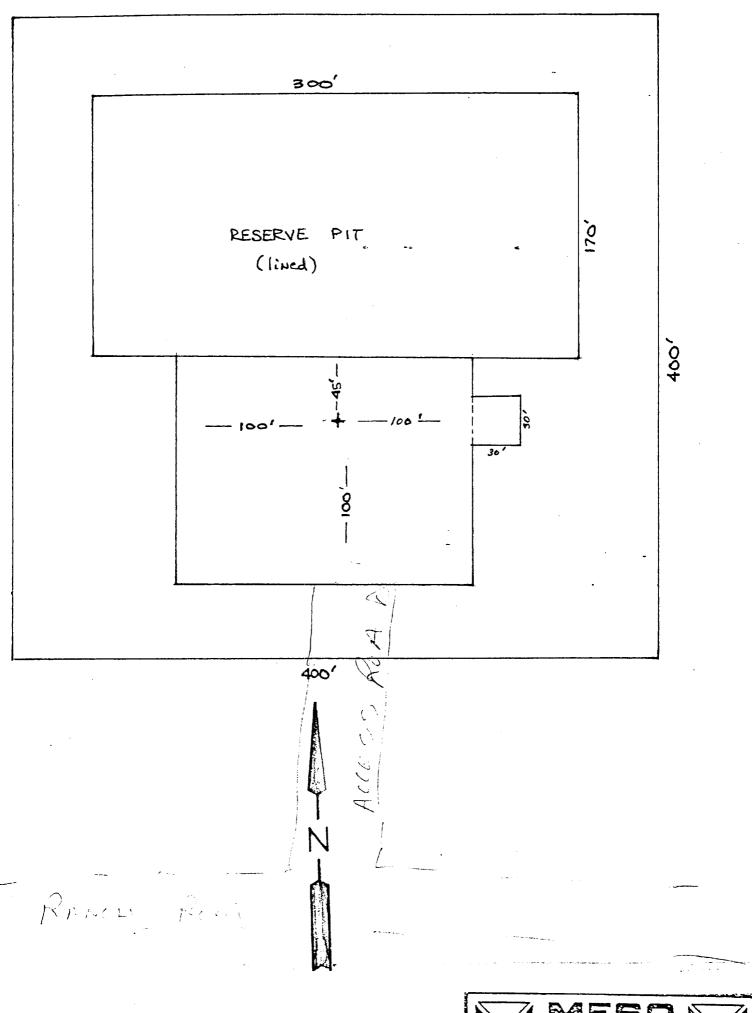
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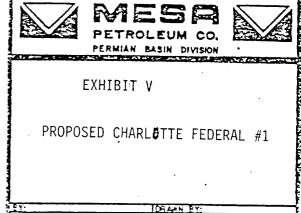
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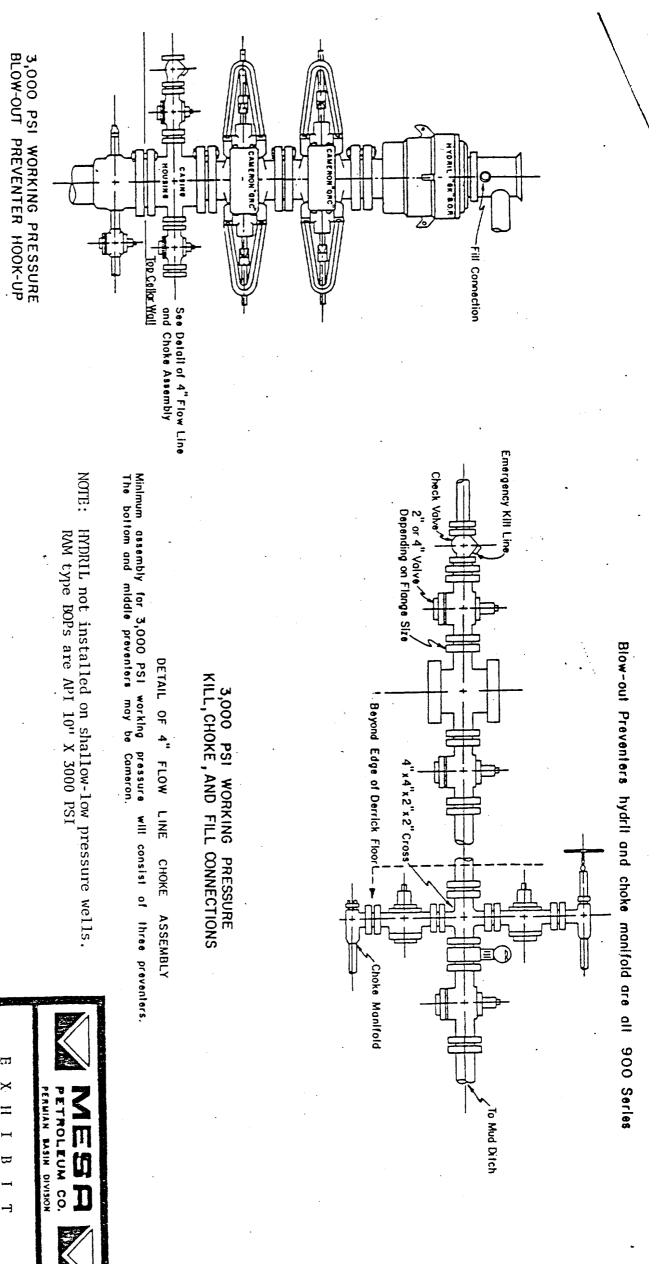
MICHAEL P. HOUSTON OPERATIONS MANAGER



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