m 9-(:31 C May 1953)

At surface

At proposed prod. zone

NM OIL CONS. COMMISSION

Drawer DD

Artesia, NM 88210

SUBMIT IN TRIPLICATE

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 30-005-611 5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

CAMACK FED COM

UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURV	EY		1 611
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PPLICATION FOR PERM	UT TO DRILL, DEEPEN,	OR PLUG BACK
	DEEPEN	PLUG BACK
DRILL X	DEEPLIN . SINGLE	MULTIPLE ZONE

DRILL W SINGLE X . TYPE OF WELL WELL X OTHER WELL

NAME OF OPERATOR

MESA PETROLEUM CO . ADDRESS OF OPERATOR 79701-4493 1000 VAUGHN BLDG. / MIDLAND, IEXAS /9/UI-4433

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

2. COLUMN STATE (Report location clearly and in accordance with any State requirements.*)

3. 1981

1980' FNL & 660' FEL

SAME

O. C. D. ARTESIA, CITIC

RECEVED

6: 10. FIELD AND POOL, OR WILDCAT UNDESIGNATED ABO 11. SEC., T., R., M., OR BLE.

AND SURVEY OR AREA

OF TO DO

SEC 12, T5S, R24E

13. STATE 12. COUNTY OR PARISE NEW MEXICO CHAVES

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 37 MILES NORTH/NORTHEAST OF ROSWELL

10. DISTANCE FROM PROPUSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATIONS
ON PROPOSED LOCATIONS
ON PROPOSED LOCATIONS
ON APPLIED FOR, ON THIS LEASE, FT.

660'/660' 2640'

16. NO. OF ACRES IN LEASE 1640 19. PROPOSED DEPTH 4100'

17. NO. OF ACRES ASSIGNED TO THIS WELL 160 20. ROTARY OR CABLE TOOLS

NM 22615

9. WELL NO.

ROTARY 22. APPROX. DATE WORK WILL START* NOVEMBER 9, 1981

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

PROPOSED CASING AND CEMENTING PROGRAM

21. ELEVATIONS (Show		PROGRAM	<u>.</u>		
3895' GR	PROPOSED CASING AND	CEMENTING PROGRE	QUANTITY OF C	EMENT	
23.	TRICHT PER FOOT	SETTING DEPTH	CUDEACE	- 000	
SIZE OF HOLE SIZE OF CASING		900	ISOLATE WATER.	DIL & GAS	
$-\frac{17.1}{2}$ 13.3/8		151312	COVER ALL PAY		
- 17 172 8 5/8" 11" 8 5/8"	10.5#	4100'			
- 11" 4 1/2"		1	a coll aumfac	o casino	and

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 /600' to set 8 5/8" casing. Will nipple up RAM type BOPs, reduce hole to 7 7/8" and drill to Drilling medium will be air, foam, or mud as required. total depth. 1981

GAS IS DEDICATED.

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

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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive 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 DATE OCTOBER 8, 1981

preventer program, if any. SIGNED

REGULATORY COORDINATOR

APPROVAL DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY CONDITIONS OF APPROVAL, IF ANY: OCT 30 1981

JAN JE AL CHA DA

OIL CONSERVATION DIVISION

P. O. DOX 2088

Form C-102 Revised 10-1-78

STATE OF NEW MEXICO

ANTA FE, NEW MEXICO 87501

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APPLICATION FOR DRILLING

CAMACK FED COM #6
1980' FNL & 660' FEL, SEC 12, T5S, R24E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 22615

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</u> FOR <u>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:

SEVEN RIVERS
SAN ANDRES
GLORIETA
TUBB
ABO
SURFACE
556'
1481'
2978'
3599'

- 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.

MESA PETROLEUM CO. CAMACK FED COM #6 1980' FNL & 660' FEL, SEC 12, T5S, R24E CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 22615

U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO

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.

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 37 miles Northeast of Roswell, New Mexico.

B. Directions: Travel North from Roswell on US 285 approximately 25 miles to mile marker 139 and turn East on county road 8 miles, then Northeast 7 miles, then West 1/4 mile on lease road to the location.

2. Planned Access Road:

A. Length and width: The new access road will be 12' wide (20' ROW) and approximately 1/4 mile of new road, 600' on Federal surface and 1000' on State ROW.

(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 South to the North for fill.

Location of Existing Wells:

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.

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 be un-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: Huggins Draw is 1/2 mile to the 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 (Ewart).
- 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:

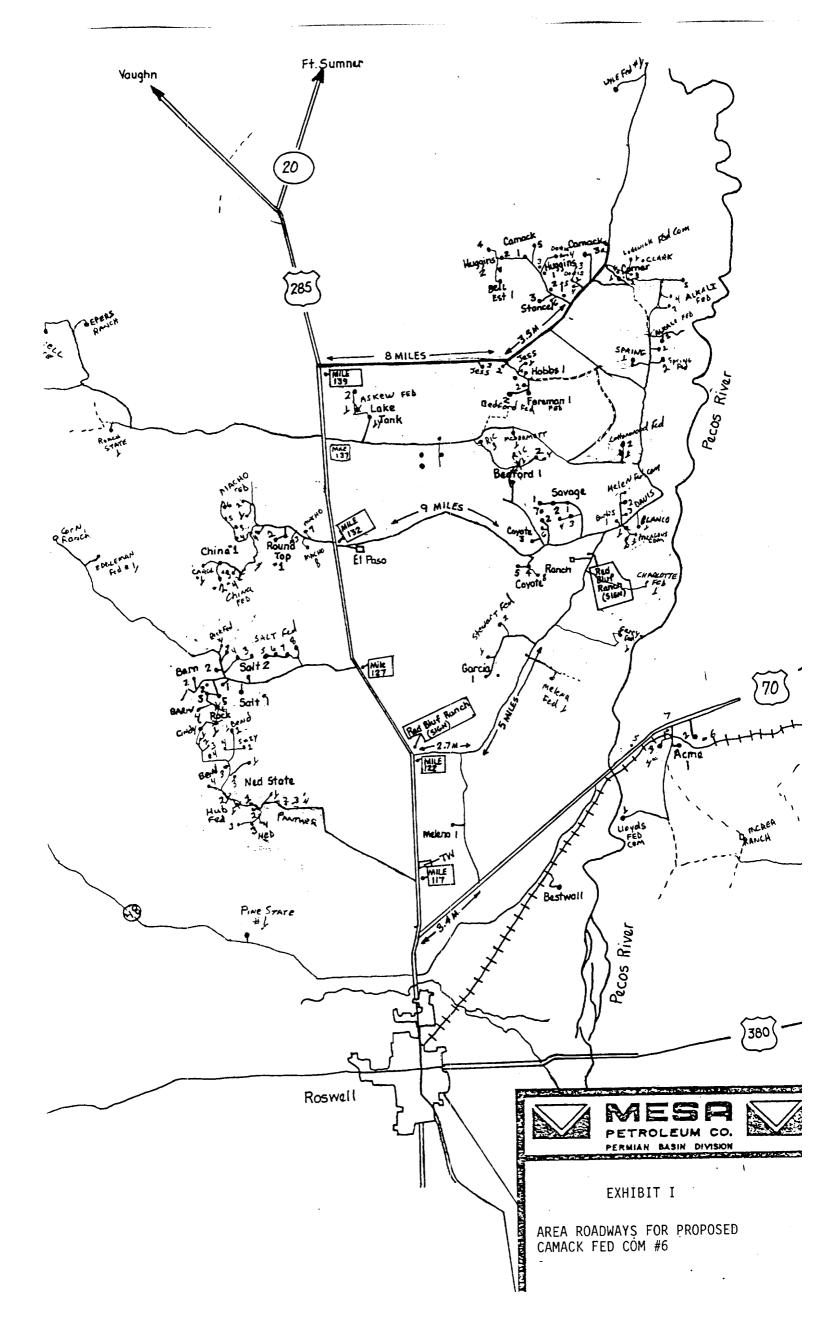
J. James P. O. Box 298 Roswell, New Mexico (505-622-0992) - Office (505-622-0234) - Home W. R. Miertschin 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-682-6535) - Home

13. Certification:

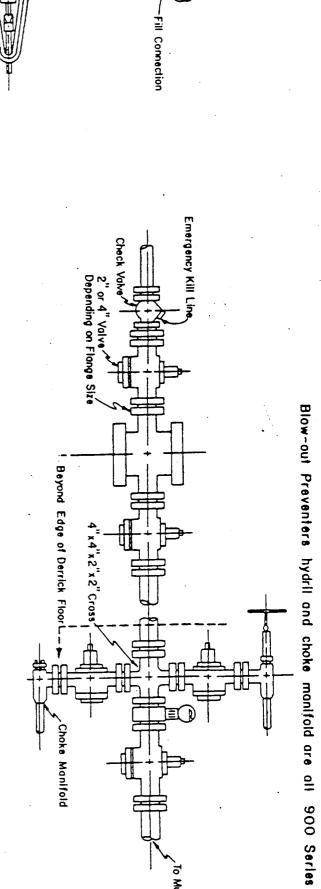
I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated 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.

OCTOBER 8, 1981
DATE

Michael P. Moustin MICHAEL P. HOUSTON OPERATIONS MANAGER



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DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY Minimum assembly for 3,000 PS1 working pressure will consist of three preventers. The bottom and middle preventers may be Cameron.

Top Cellor Wall

See Detail of 4"Flow Line and Choke Assembly

NOTE: IYDRIL not installed on shallow-low pressure wells.

RAM type BOPs are API 10" X 3000 PSI

