

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYRECEIVED  
SUBMIT IN DUPLICATE  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-005-61630

MAY 21 1982

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

ARTESIA, OFFICE

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 79701-4493

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

At surface

860' FSL &amp; 660' FWL SW¼ SW¼

At proposed prod. zone SAME

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

10 miles Northwest of Roswell, New Mexico

## 19. DISTANCE FROM PROPOSED\*

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

660' / 660'

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

N/A

## 16. NO. OF ACRES IN LEASE

2416.16

## 19. PROPOSED DEPTH

3400'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

ROTARY

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

4054'

## 22. APPROX. DATE WORK WILL START\*

MAY 8, 1982

## 23.

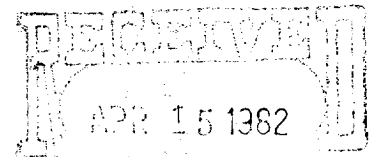
## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	1400'	SURFACE
7 7/8"	4 1/2"	10.5#	3400'	ABO

Propose to drill 12 1/4" hole to approximately 1400' to set 8 5/8" surface casing and cement to surface. Will nipple up ram type BOP's and reduce hole to 7 7/8" to drill to total depth. Drilling medium will be 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.

Operator's Gas Sales are dedicated.

NOTE: Amended location.

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

XC: MMS (7), TLS, CEN RCDS, ACCTG, MEC, LAND, ROSWELL, REM, FILE, (PARTNERS )

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

Richard C. Mathis by [signature]

REGULATORY COORDINATOR

DATE

4-14-82

(This space for Federal or State office use)

PERMIT NO.

(Orig. Sgd.) GEORGE H. STEWART

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

FOR

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

TITLE

DATE

See Instructions On Reverse Side

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator <b>Mesa Petroleum Co.</b>			Lease <b>Marley Federal</b>			Well No. <b>#1</b>		
Unit Letter <b>M</b>	Section <b>19</b>	Township <b>9 South</b>	Range <b>23 East</b>	County <b>Chaves</b>				
Actual Footage Location of Well:								
860 feet from the		South	line and	660	feet from the		West	line
Ground Level Elev. <b>4054</b>	Producing Formation <b>ABO</b>		Pool <b>UNDESIGNATED</b>			Dedicated Acres: <b>SW/4 160</b> 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 (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 Division.

Sec. 19, T.9 S., R.23 E., N.M.P.M.

MESA ET AL

NM 36646

660'

1098'

## CERTIFICATION

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

*Michael P. Houston*

Name

MICHAEL P. HOUSTON

Position

OPERATIONS MANAGER

Company

MESA PETROLEUM CO.

Date

APRIL 14, 1982

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

APRIL 12, 1982

Registered Professional Engineer  
and Licensed Surveyor

JOHN D. JAQUES, P.E. & L.S.

Professional No. 6290

APPLICATION FOR PERMIT TO DRILL

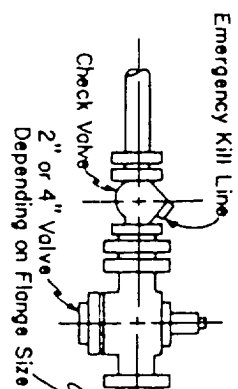
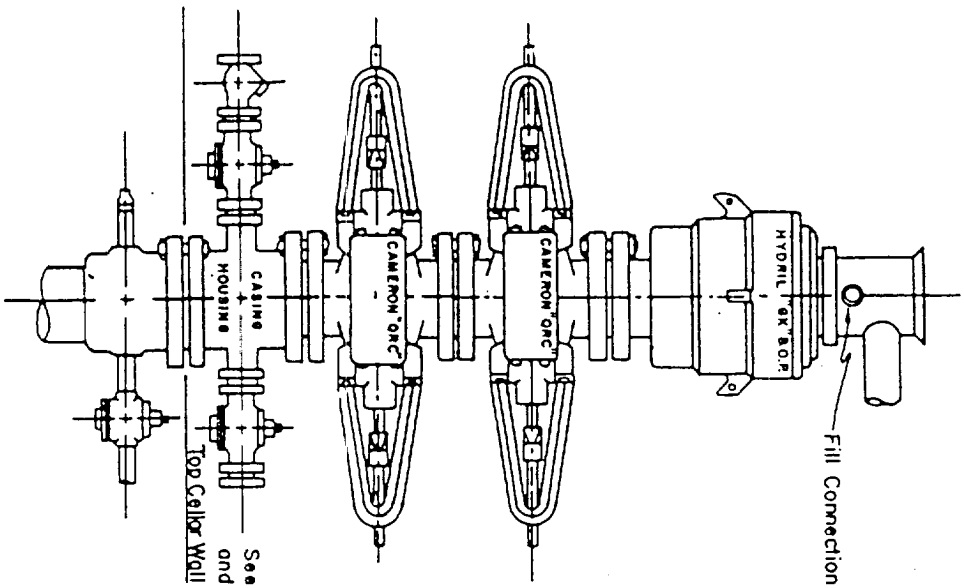
MESA PETROLEUM CO.  
MARLEY FEDERAL #1  
860' FSL & 660' FWL, SEC 19, T9S, R23E  
CHAVES COUNTY, NEW MEXICO

LEASE NO. NM-NM-36646

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	524'
GLORIETA	726'
TUBB	2176'
ABO	2843'
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 8 5/8" casing will be set at approximately 1400' to protect any fresh water zones and cemented to the surface. The 4 1/2" production casing will be set at a 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 down to the casing point, if run.
5. No drill stem test 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 ten days with completion operations to follow as soon as a completion unit is available.



3,000 PSI WORKING PRESSURE  
BLOW-OUT PREVENTER HOOK-UP

NOTE: HYDRIL not ins  
RAM type BOPs

Minimum assembly for 3,000  
The bottom and middle pre