

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

57 file
30-005-61688

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 ☒ ZONE ☐

2. NAME OF OPERATOR
MESA PETROLEUM CO. ✓

3. ADDRESS OF OPERATOR
1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701-4490

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 2310' FSL & 990' FWL NW 1/4 SW 1/4 L

At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
26 miles Northwest of Roswell, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 2310' / 990'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1490'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3906' GR

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'	700/300 SURFACE
7 7/8"	4 1/2"	10.5#	3400'	300 COVER ALL PAY

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.

RECEIVED
JUN 9 1982

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

Partial ID-I
API & NL Bank
7-9-82

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 R. E. Mark TITLE REGULATORY COORDINATOR DATE 6-8-82

(This space for Federal or State office use)

PERMIT NO. (Orig. Sgd.) GEORGE H. STEWART APPROVAL DATE

APPROVED BY JUL 2 1982 TITLE DATE

CONDITIONS OF APPROVAL, IF ANY: NMOLD APPROVAL FOR NON-STD LOCATION.

JAMES A. CILHAM
DISTRICT SUPERVISOR

NSH-1554

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

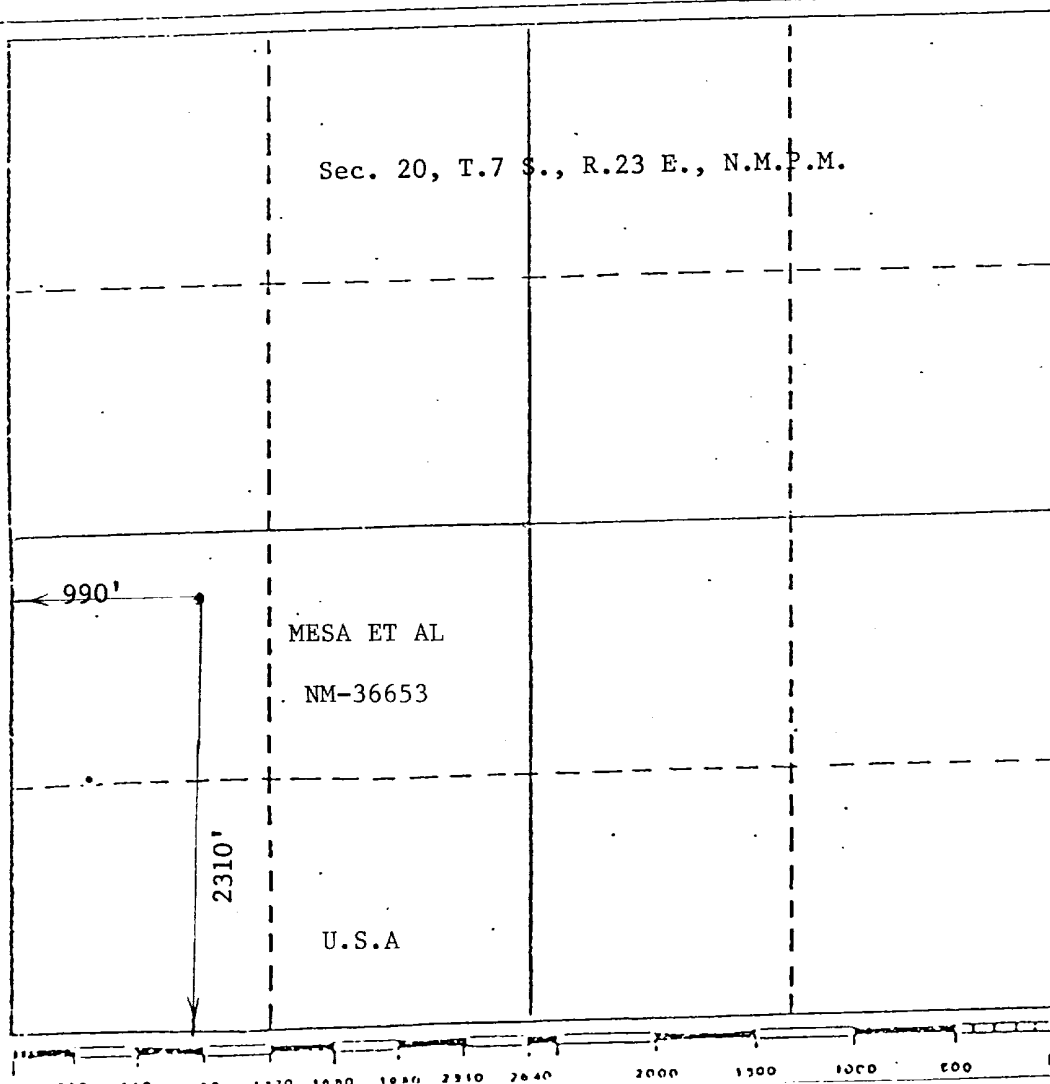
Operator Mesa Petroleum Co.		Lease China Federal		Well No. 13	
Unit Letter L	Section 20	Township 7 S.	Range 23 E.	County Chaves	
Actual Postage Location of Well:					
2310 feet from the South line and		990 feet from the West line		Dedicated Acreage:	
Ground Level Elev. 3906	Producing Formation ABO	Pool UNDESIGNATED		SW/4 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.



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

JUNE 8, 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 Surveyed

May 25, 1982

Registered Professional Engineer and/or Land Surveyor

John D. Jaquess, P.E. & L.S.

Certificate No.

6290

APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO.
CHINA FEDERAL #13
2310' FSL & 990' FWL, SEC 20, T7S, R23E
CHAVES COUNTY, NEW MEXICO

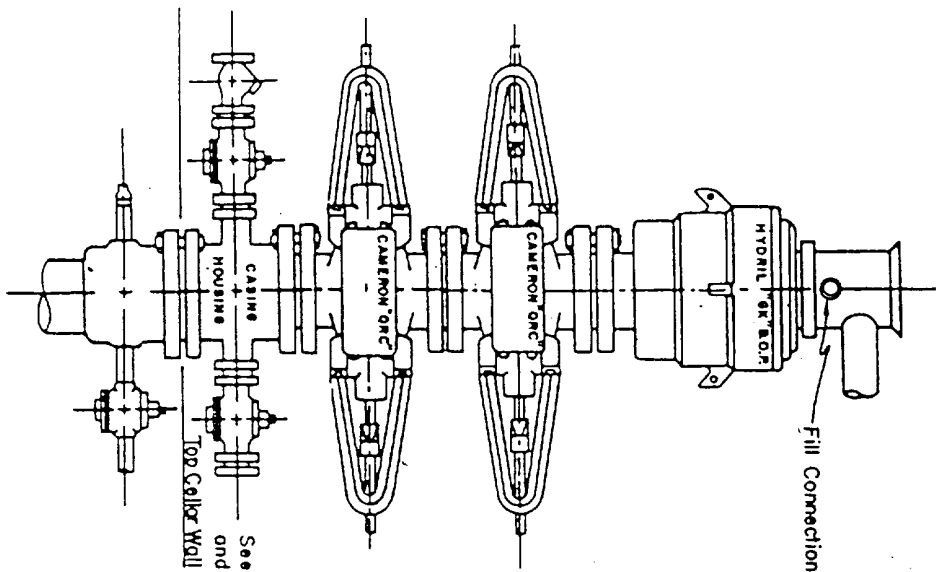
LEASE NO. NM-36648

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

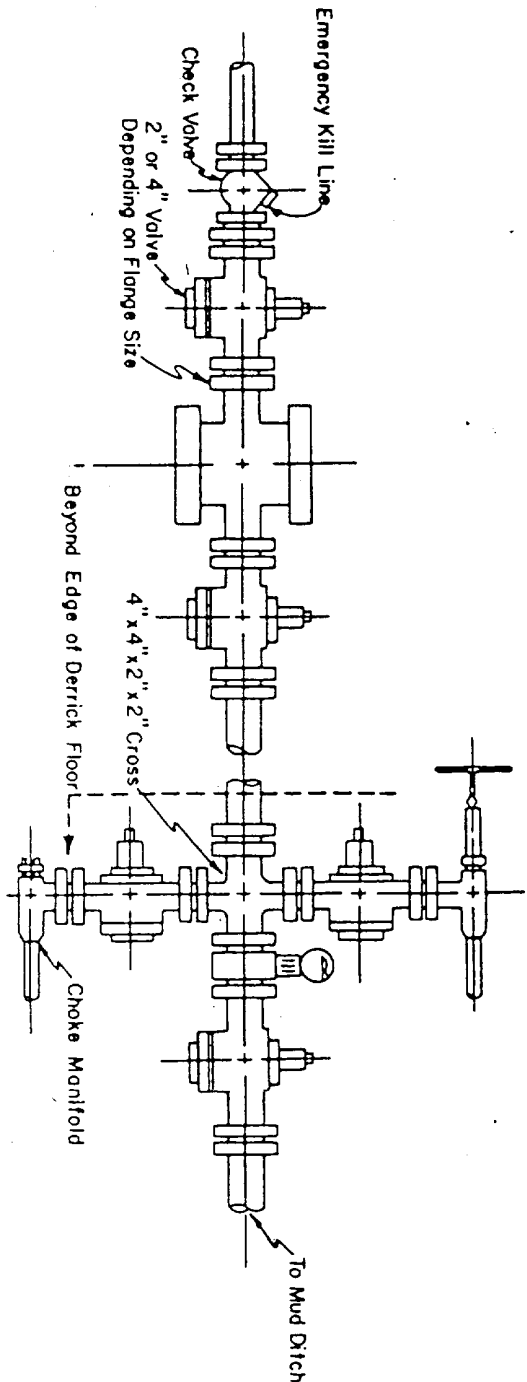
1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
2. Geological markers are estimated as follows:

SEVEN RIVERS	Surface
SAN ANDRES	
GLORIETA	498
TUBB	2048
ABO	2789
3. Hydrocarbon bearing strata may occur in the Abo formation(s). No fresh water is expected to be encountered below 1400'.
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 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.

Blow-out Preventers hydril and choke manifold are all 900 Series



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



3,000 PSI WORKING PRESSURE
KILL, CHOKES, AND FILL CONNECTIONS

DETAIL OF 4" FLOW LINE CHOKES ASSEMBLY

Minimum assembly for 3,000 PSI working pressure will consist of three preventers.
The bottom and middle preventers may be Cameron.

NOTE: HYDRIL not installed on shallow-low pressure wells.
RAM type BOPs are API 10" X 3000 PSI



E X H I B I T

V I

PERMANENT RECORD



BRUCE KING
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

July 5, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

RECEIVED

JUL 13 1982

O. C. D.
ARTESIA, OFFICE

Mesa Petroleum Co.
Vaughn Building
Suite 1000
Midland, Texas 79701

Attention: R. E. Mathis

Administrative Order NSL-1554

Gentlemen:

Reference is made to your application for a non-standard location for your China Federal Well No. 13 to be located 2310 feet from the South line and 990 feet from the West line of Section 20, Township 7 South, Range 23 East, NMPM, Abo Gas, Chaves County, New Mexico.

By authority granted me under the provisions of Rule 104 F of the Division Rules and Regulations, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Artesia
Oil & Gas Engineering Committee - Hobbs
Minerals Management Service - Artesia

NSL-1554
approved
7-5-82