

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 97, McFadden, Wyoming 82080

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

1190ft FSL - 1190ft FWL - Sec. 33, T26N, R5W

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST FEDERAL BUREAU OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

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

6598 Grd. - 6611 KB

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	9 5/8" OD	32.30 H40	400'	450 Sacks
7 7/8"	5 1/2" OD	15.5 & 17 J55	7370'	170 Sacks - 280 Filler

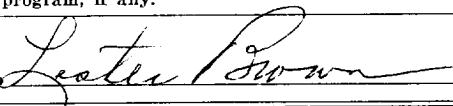
Marathon Oil Company requests permission to drill a development well to the Basin Dakota Sand at the above location. A string of 9 5/8" OD, 32.30#, H40 surface casing will be set in a 15" hole at approximately 400' and cemented to the surface. A string of 5 1/2" OD, 15.50 and 17.00#, J55 production casing will be set through the Dakota sand in a 7 7/8" hole, and cemented in three stages with 450 sacks. An automatic fillup type stage collar and shoe will be run on bottom of two stage cementing collars. Well cemented in three stages to bring cement back to surface. Low solids gel-chemical mud will be used. Water loss will be kept less than 10 cc's to drill this well. Our logging program will consist of a Formation Density - Gamma Ray - Caliper log will be run from TD to base of the surface casing. Indicated productive intervals in the Basin Dakota Sand will be perforated two holes per foot with jets. Stimulation will consist of sand-water fracture treatment with approximately 3500 pounds of sand per foot of perforations.

Our blow-out preventer program includes Cameron Double Hydraulic and Hydril Series 900 with closing accumulator, blind rams and rams to fit drill pipe.

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



TITLE

Area Superintendent

DATE

February 20, 1967

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

FEB 21 1967

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 11: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

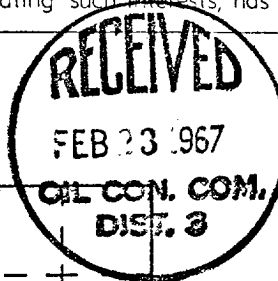
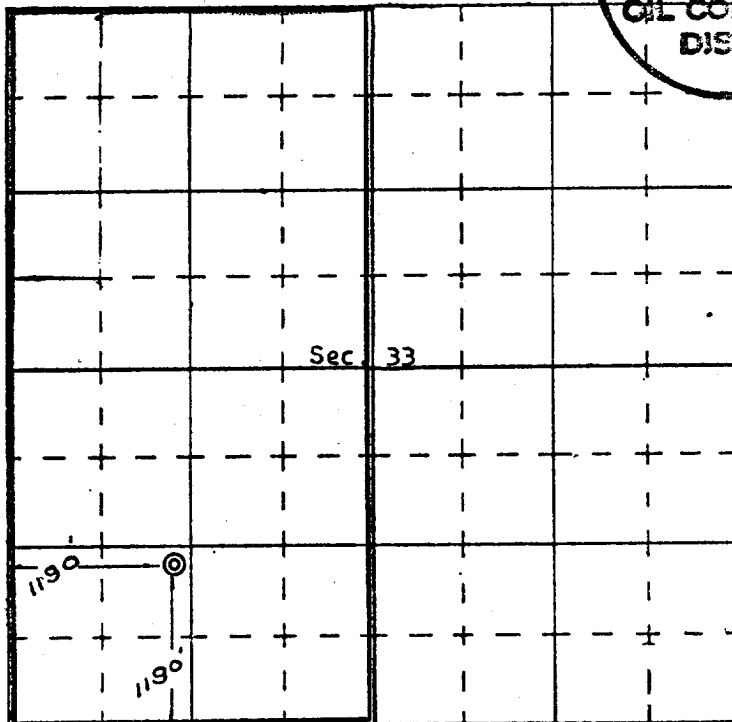
Operator MARATHON OIL COMPANY			Lease Jicarilla Apache		Well No. 13
Unit Letter M	Section 33	Township 26 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 1190 feet from the South line and 1190 feet from the West line					
Ground Level Elev. 6598	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 320 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 consolidated. (Use reverse side of this form if necessary.) Marathon Oil Company - Tract 251

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 Commission.



CERTIFICATION

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

Reuter Brown
Name

Area Superintendent
Position

Marathon Oil Company
Company

February 20, 1967
Date

Date Surveyed

February 18, 1967
Registered Professional Engineer
and/or Land Surveyor

E. E. Canohawk
Certificate No. 3602