

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 Company3. ADDRESS OF OPERATOR
P. O. Box 97, McFadden, Wyoming 820804. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
900' from South line, 900' from West line, sec 34, T26N, R5W
At proposed prod. zone

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

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

AUG 26 1968

16. NO. OF ACRES IN LEASE
256017. NO. OF ACRES ASSIGNED
TO THIS WELL 32018. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.OIL CON. COM.
DIST. 319. PROPOSED DEPTH
740020. ROTARY OR CABLE TOOLS
Rotary21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6541 grd (approximate)22. APPROX. DATE WORK WILL START*
September 3, 1968

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.30#	400'	400 sacks (will be cemented to surface)
7 7/8"	5 1/2"	17# & 15.5#	7400'	760 sacks " " " "

Marathon Oil Company requests permission to drill a Basin Dakota development well at the above location.

Low solids gel chemical mud will be used. Water loss will be kept less than 10 cc's below 7000'.

The logging program will consist of a Compensated Formation Density-Gamma Ray-Caliper log from total depth to the base of the surface casing. A Gamma Ray log will be run inside the casing for perforating depth control.

Surveys to determine the deviation from vertical will be made at least once every 500'. No cores or drill stem tests will be taken.

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 Lester Brown TITLE Area Superintendent DATE August 22, 1968

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

RECEIVED

APPROVED BY [Signature] TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

AUG 23 1968

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C.

*See Instructions On Reverse Side

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.

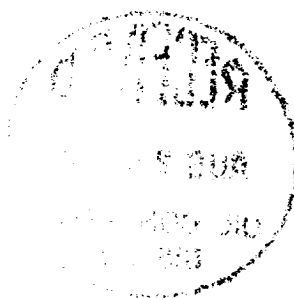
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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.



Blow out preventers will consist of a Cameron Double Hydraulic series 900 rating and a Hydril series 900, with closing accumulator, blind rams and rams to fit the drill pipe.

The Dakota will be completed in two stages. The lower Dakota will be selectively perforated first and sand-water fractured, then isolated with a bridge plug. The upper Dakota will then be perforated and sand-fractured. The bridge plug will be drilled out and the casing cleaned to the float collar.

The Pictured Cliffs sand, expected to be tapped at 2920', will also be perforated and sand-fractured if there is enough sand indicated on the logs to warrant testing. If this is done, the Dakota will be isolated with a bridge plug prior to perforating and fracturing the Pictured Cliffs sand. If commercial gas production is obtained from the Pictured Cliffs, the well will be dual completed in the Pictured Cliffs and Dakota. A Model D retainer production packer will be set above the Dakota and 2 3/8" OD "Seal Lock" tubing will be landed in the packer for Dakota production. 1.660" OD Hydril "CS" tubing will be landed at 2900' for Pictured Cliffs production. Both tubing strings will hang in a Rector dual head. Blast joints will be installed in the 2 3/8" tubing string opposite the Pictured Cliffs perforations.

[illegible]

The above will be covered by the release of the above and
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[illegible]

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

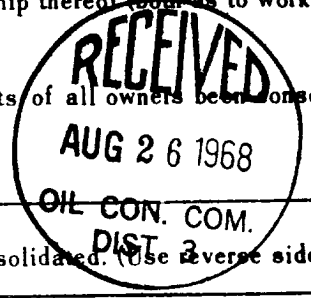
Operator MARATHON OIL COMPANY			Lease Jicarilla Apache		Well No. 14
Unit Letter M	Section 34	Township 26 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 900 feet from the South line and 900 feet from the West line					
Ground Level Elev. 6541, ungr.	Producing Formation Dakota		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 been 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.

Name Lester Downer
Position **Area Superintendent**
Company **Marathon Oil Company**
Date **August 22, 1968**

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 **August 13, 1968**
Registered Professional Engineer and/or Land Surveyor

C. J. Carls
Certificate No. **3602**

