

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-20529

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 ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P. O. Box #39, Sidney, Nebraska 69162

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface1,600' FSL, 900' FEL, SW NE SE Section 34, T. 26N., R. 5W.
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 drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

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

16. NO. OF ACRES IN LEASE

2,560

19. PROPOSED DEPTH

7,390'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

6,603' GR

22. APPROX. DATE WORK WILL START*

August 1, 1972

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10-3/4"	32.75#	300'	270 sacks (Cement to surface)
9-5/8"	7-5/8"	24#	3,100'	410 sacks (Cement to surface)
6-3/4"	4 1/2"	11.60#	7,390'	566 sacks.

Marathon Oil Company intends to drill a Dakota development well at the above designated location. Gel mud will be used to drill to 3,100', and gas will be used to drill from the intermediate casing at 3,100' to total depth. Surveys to determine deviation from vertical will be taken at least once every 500'. One drill stem test will be conducted in the Pictured Cliffs Sand (approximate interval 2,925' - 2,995') before the intermediate casing is set. The logging program will consist of a Compensated Formation Density - Gamma Ray - Caliper log from total depth to 300', and a Compensated Neutron porosity log will be run from total depth to 3,100'. A Gamma Ray correlation log will be run inside the 4 1/2" casing for perforating depth control. BOP program will consist of a hydraulic operated BOP (3,000 psi W.P.) with pipe rams and blind rams. A rotating BOP and stripper will also be installed while drilling with gas. Porous intervals in the Dakota and Graneros Sands will be perforated and sand fractured with 40,000 pounds of sand.

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

Frank Bant

TITLE District Operations Manager

DATE July 21, 1972

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OK

JUL 24 1972

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DISTRIBUTION

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. 16.
Unit Letter 1	Section 34	Township 26 North	Range 5 West	County Rio Arriba	

Actual Footage Location of Well:
1600 feet from the **South** line and **900** feet from the **East** line

Ground Level Elev. 6603	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage 320	Acre
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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 (with 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.)

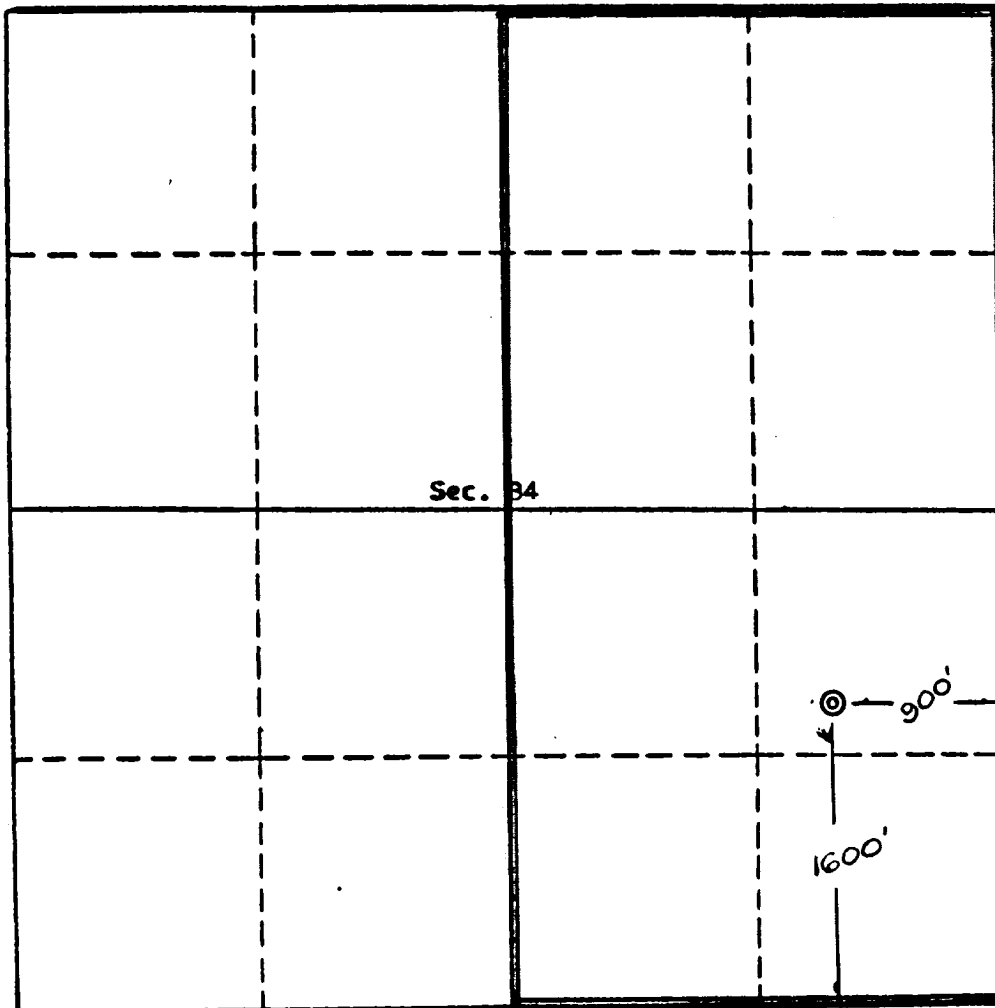
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

Frank Bonetti
 Name
District Operations Manager
 Position
Marathon Oil Company
 Company
July 21, 1972
 Date

E. V. Echohawk
 Date
July 18, 1972
 Registered Professional Engineer
 and/or Land Surveyor



Scale, 1 inch = 1,000 feet