

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ARTESIA, NM 88210-2834

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a TYPE OF WORK

DRILL ☐

DEEPEN ☒

b TYPE OF WELL

C.I.
WELL ☐

GAS
WELL ☐

OTHER ☒

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2 NAME OF OPERATOR

Marathon Oil Company

3 ADDRESS AND TELEPHONE NO

P.O. Box 552 Midland, TX 79702

915/687-8356

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

U. L. "K" 2030' FSL & 1650' FWL

At proposed prod. zone

U. L. "K" 2030' FSL & 1650' FWL

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

10 MILES WEST OF LAKEWOOD, NM

15 DISTANCE FROM PROPOSED*

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

16 NO. OF ACRES IN LEASE

4160

17 NO. OF ACRES ASSIGNED
TO THIS WELL

N/A

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

19 PROPOSED DEPTH

11,200'

20 ROTARY OR CABLE TOOLS

ROTARY

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

3728' GL, 3734' KB

22 APPROX. DATE WORK WILL START*

2/25/99

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PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
*17 1/2"	13 3/8"	48	16'	REDI-MIX TO SURFACE
*12 1/4"	9 5/8"	36	1210'	CIRCULATED W/875 SX
*8 3/4"	7"	23, 26	9660'	CIRCULATED W/1840 SX
6 1/8"	4 1/2"	11.6	10,200'	250 SX, TOL @ 7550'

PROPOSE TO SQUEEZE UPPER PENN & MORROW PERFS, DEEPEN WELL TO THE DEVONIAN.
RUN AND SET A 4 1/2" LINER AND CONVERT WELL TO SWD.

SEE ATTACHED FOR DETAIL.

NO NEW SURFACE WILL BE DISTURBED.

*CASING CEMENTED IN PLACE.

SUBJECT TO
LIKE APPROVAL
BY STATE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

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SIGNED

Walter J. Duman

TITLE DRILLING SUPERINTENDENT

DATE 1/29/99

(This space for Federal or State office use)

PERMIT NO

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY

ORIG. SGD. ALEXIS D. SWOBODA

PETROLEUM ENGINEER

APPROVED BY

TITLE

DATE

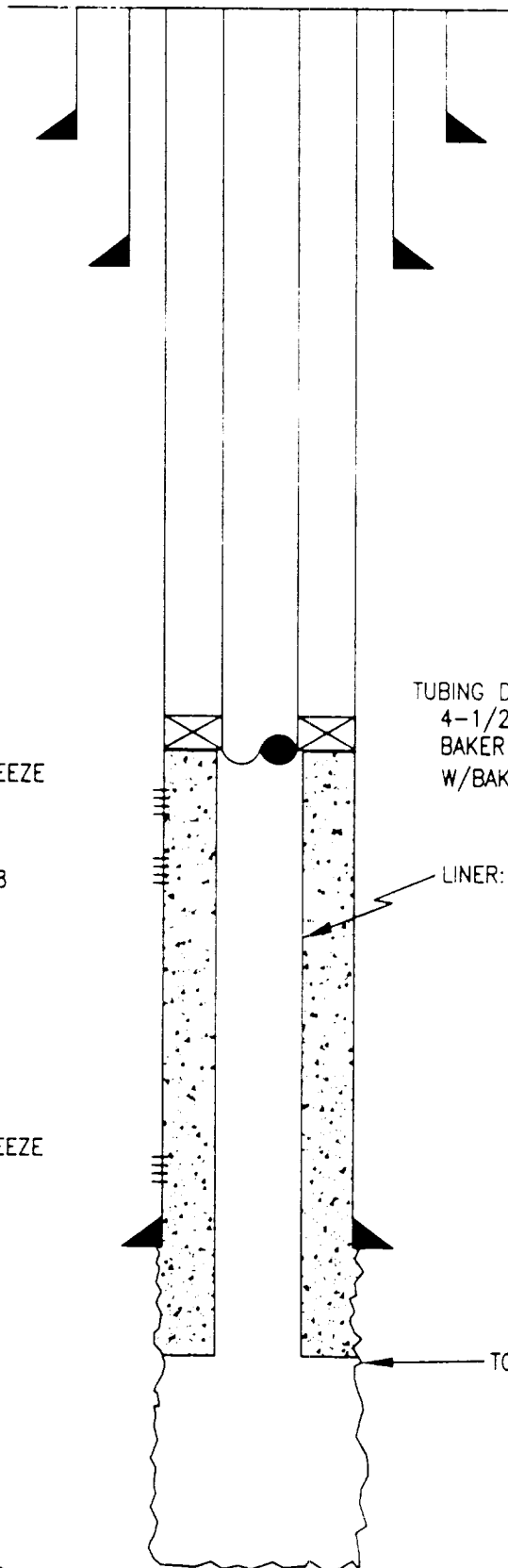
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



PROPOSED COMPLETION

MOC FEDERAL NO. 8 SWD
UL "K", 2030' FSL & 1650' FWL
SECTION 20, T-21-S, R-24-E
EDDY COUNTY, NEW MEXICO



13-3/8" @ 16'
CONDUCTOR
REDI-MIX TO SURFACE

9-5/8" @ 1,210'
CMT. W/875 SX.
TO SURFACE

TUBING DETAIL:
4-1/2" LT&C, PCID SET @ 7551'
BAKER (FAB-1) RETAINER PRODUCTION PACKER SET @ 7550'
W/BAKER MODEL K-22 ANCHOR SEAL ASSEMBLY

LINER: 4-1/2" FL4S
7550'-10,200' CEMENTED

7" @ 9,660'
CMT. W/1,840 SX.
CIRC. 149 SX.

TOP OF DEVONIAN @ 10,200'

6-1/8" OPEN HOLE TO 11,200'

UPPER PENN PERFS:
PROPOSED TO CEMENT SQUEEZE
7682'-7830'

UPPER PENN PERFS:
CEMENT SQUEEZED - 11/98
7850'-7866'

MORROW PERFS:
PROPOSED TO CEMENT SQUEEZE
PERFED W/6 SPF
9210'-9226'
9227'-9238'
9368'-9372'
9381'-9392'
9442'-9447'