

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒ RE-ENTRY DEEPEN ☐ MAR 31 1994

b. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Rachael Exploration Corporation 616/941-7919

3. ADDRESS AND TELEPHONE NO.

1503 N. Garfield Rd. Traverse City, MI 49684

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

At surface 1980' FSL & 660' FWL

At proposed prod. zone

2360' FSL & 245' FWL

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

30 NE of Hagerman, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 2360'

18. DISTANCE FROM PROPOSED LOCATION*

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

16. NO. OF ACRES IN LEASE

2040

19. PROPOSED DEPTH

12,000'

17. NO. OF ACRES ASSIGNED

TO THIS WELL 40

20. ROTARY OR CABLE TOOLS

Rotary

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

3777.5 GL

22. APPROX. DATE WORK WILL START*

April 15, 1994

23. 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" H-40	48#	330'	Circ 320 sx "C" existing
11"	8 5/8" K-55	24#	2300'	1200 sx Lite & "H" exist.
7 7/8"	5 1/2" J-55 & N-80	17 & 20#	12,000'	750 sx "H" (500 sx @ 9600')

Mud Program:

0' - 5600': Cut brine w/gel to clean:

Mud Wt.

9.0 ppg

Vis.

28

W/L Control

No W/L cont.

5600' - 12,000': Cut brine w/poly & starch:

8.8-9.2 ppg

36-38

W/L cont. 10-15 cc

BOP Program:

A 5000 psi wp 11" Schaffer Type LWS BOP, with a 5000 psi wp Cameron Spherical, will be installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with the 7 7/8" bit. BOP will be used as a 3000 psi wp system and will be tested daily. "E". See exhibit

Note: Propose to re-enter well, drill out plugs and will directional drill a new hole between 7500' and 8000'. Drilling will stop in the Devonian if well tests commercial and production equipment will be installed.

Former: EP Op. Co. - Feb. 9 #1
OTD-9600 RA-11-6-85

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 deep-
deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

34. SIGNED Deanna Smith Agent for:

March 4, 1994

(This space for Federal or State office use)

TITLE Rachael Expl Corp

DATE

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:

APPROVED BY Sandra L. Allen TITLE Area Manager DATE 3/29/94

*See Instructions On Reverse Side

