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SUBMIT IN TRIPLICATE*

(Other instructions on reverse side) REVERSED

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

JUL 2 1975

5. LEASE DESIGNATION AND SERIAL NO. Colorado 4309

6. IS INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McCallum-Federal

9. WELL NO.

1-19

10. FIELD AND POOL, OR WILDCAT

McCallum

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

19-T9N-R78W

12. COUNTY OR PARISH 13. STATE

Jackson Colorado

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

Helmerich & Payne, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 558, Garden City, Kansas 67846

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

At surface

634' FNL & 2162' FWL Sec 19, T9N, R78W 6 P.M.

At proposed prod. zone

Same as above.

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

Approximately 4 miles east and 3/4 mile north of Walden, Colorado Jackson

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 634'

16. NO. OF ACRES IN LEASE

2104.04 Ac.

17. NO. OF ACRES ASSIGNED TO THIS WELL

40 Ac.

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

None

19. PROPOSED DEPTH

7000'

20. ROTARY OR CABLE TOOLS

Rotary tools

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

GR 8319'

22. APPROX. DATE WORK WILL START*

July 20, 1975

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 12 1/4" | 8-5/8" | 23# Foster | 300' | 275 sacks |
| 7-7/8" | 5 1/2" | 14# K-55 | 0-5200' | 250 Sacks |
| 7-7/8" | 5 1/2" | 15.5# K-55 | 5200'-7000' | |

Casingheads, flanges and spools to be 3000 psi W.P. and 6000 psi test. BOP to be 3000 psi W.P. - See drawing attached to 7 point safety equipment plan.

| | |
|-----|-------------------------------------|
| DVR | |
| FJP | |
| HMM | |
| JAM | <input checked="" type="checkbox"/> |
| JJD | <input checked="" type="checkbox"/> |
| GCH | |
| CGM | |

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 Tom Carroll TITLE District Production Supt. DATE 6-25-75

(This space for Federal or State office use)

PERMIT NO. 75 572 APPROVAL DATE DIRECTOR

APPROVED BY W. Rogers TITLE DIRECTOR DATE JUL 3 1975

CONDITIONS OF APPROVAL, IF ANY:



00272402

*See Instructions On Reverse Side

A.P.I. NUMBER 05 057 6122

75-572