

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-005-60666

5. LEASE DESIGNATION AND SERIAL NO.

NM-19181

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Long Arroyo "MQ" Fed.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

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

Sec. 25-T14S-R27E

12. COUNTY OR PARISH

Chaves

13. STATE

NM

## 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

C. C. D.

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Yates Petroleum Corporation

3. ADDRESS OF OPERATOR

207 South 4th Street, Artesia, New Mexico 88210

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

At surface

1650' FNL and 1650' FWL

At proposed prod. zone

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

Approximately 9 miles E of Hagerman, New Mexico

15. DISTANCE FROM PROPOSED\*

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

1650'

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

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

19. PROPOSED DEPTH

approx. 8500'

20. ROTARY OR CABLE TOOLS

Rotary

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

3459.6

22. APPROX. DATE WORK WILL START\*

ASAP After Approval

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT*
17½"	13 3/8"	48# J-55	approx. 250	150 sx circulate
12½"	8 5/8"	24# J-55	approx. 1575'	450 sx circulate
7 7/8"	5½" or 4½"	15.5 - 17# K-55 or 10.5 - 11.6#	TD	

Propose to drill and test the ~~Mud~~ and intermediate horizons. Approximately 300' of surface casing will be run and cement circulated to shut off gravel and caving. Intermediate casing will be set 100' below the Artesian Water Zone and cemented to the surface. If commercial pay is encountered, we will run 5½" or 4½" casing and cement with 600' of cover, perforate and stimulate as needed.

MUD PROGRAM: FW gel & LCM to 1575', fresh water to 4000', KCL water to 6700', starch-driskpak KCL to 7500', flosal-driskpak-KCL mud to T.D.; MW 8.9 - 9.0, Vis. 34 - 39, WL 10-7

BOP PROGRAM: BOP's and hydril on the 8 5/8" casing and tested, pipe rams daily, blind rams on trips, Yellow Jacket prior to drilling Wolfcamp.

GAS NOT DEDICATED

IN ABOVE STATE 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

TITLE

Engineer

DATE

1/29/80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

2-5-80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: