

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-005-2097

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|  |  |  |   |  |  |
|--|--|--|---|--|--|
| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>   |  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>NM-015807                      |  |  |
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                  |  |  |
| 2. NAME OF OPERATOR<br>Yates Drilling Co.  |  |  | 7. UNIT AGREEMENT NAME  |  |  |
| 3. ADDRESS OF OPERATOR<br>207 S. 4th, Artesia, New Mexico 88210  |  |  | 8. FARM OR LEASE NAME<br>Garner Federal                               |  |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface 330' FSL and 1080' FEL<br>At proposed prod. zone same   |  |  | 9. WELL NO.<br>4  |  |  |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE<br>25 miles north of Maljamar, NM.  |  |  | 10. FIELD AND POOL, OR WILDCAT<br>Under Casrock Queen                 |  |  |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.<br>(Also to nearest drilg. unit line, if any) 330'  |  |  | 11. SEC., T., R., M., OR BLK.<br>AND SURVEY OR AREA Area 34-T12S-R31E |  |  |
| 16. NO. OF ACRES IN LEASE<br>1040  |  |  | 12. COUNTY OR PARISH<br>Chaves  |  |  |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>40   |  |  | 13. STATE<br>NM   |  |  |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.   |  |  | 20. ROTARY OR CABLE TOOLS<br>Rotary                                   |  |  |
| 19. PROPOSED DEPTH<br>appr. 3100'  |  |  | 22. APPROX. DATE WORK WILL START<br>ASAP                              |  |  |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>4433.0' GL   |  |  |   |  |  |

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT              |
|--------------|----------------|-----------------|---------------|---------------------------------|
| 12 1/2"      | 8 5/8"         | 24# J-55        | appr. 360'    | 250 sx circ                     |
| 7 7/8"       | 5 1/2"         | 14#             | TD            | 200 sx/tie back to base of salt |

We propose to drill and test the Queen and intermediate formations. Approximately 400' of surface casing will be set and cement circulated to shut off gravel and caving. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: FW gel to 360', 10# Brine to TD. Mud up s/SW gel to log. LCM if needed.

BOP PROGRAM: BOP's will be installed after setting the 8 5/8" and tested daily.

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 Gilbert Rodriguez TITLE Regulatory Agent DATE 6/18/84  
(This space for Federal or State office use)

PERMIT NO. 31611 Kirk APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 6-28-84  
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

JUN 25 1984

O.C.D.  
HOBBS OFFICE