SUBMIT IN TRIPLICATE*

(Other instructions on

30-025-29877

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LC-068281-A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN [PLUG BACK b. TYPE OF WELL WELL SINGLE X MULTIPLE ZONE WELL X S. FARM OR LEASE NAME OTHER 2. NAME OF OPERATOR Conoco Federal 9. WELL NO. Highland Production Company 3. ADDRESS OF OPERATOR 810 N. Dixie Blvd., Suite 202, Odessa, Texas, 79761 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) East Mason (Delaware) At surface 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1662' from East line and 2310' from South line. At proposed prod. zone Section 19, T-26-S, 1662' from East line and 2310' from South line. R-32-E, NMPM
12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 21 Miles SW of Jal, New Mexico New Mexico 15. DISTANCE FROM PROPOSED* 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL LOCATION TO NEAREST 330 PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 330' FNL 160 40 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. ROTABY OR CABLE TOOLS 19. PROPOSED DEPTH and cable tool Rotary to 4550' 1332' to 4370. 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 3170.5 GR March 20, 1987 $\overline{23}$. 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# 1200 Feet 125 SX Class C Circulate 7 7/8" 5 1/2" 15.5# 4550 Feet 1200 SX HLC/W Class C Circulate Additional Information: 1. Surface formation is Tertiary with some Triassic exposed. 2. Estimated geological tops: Rustler - 950', Anhydrite - 1,000', Base Salt - 1,300', Lamar Lime - 4,100', Delaware Top - 4,300'. 3. Pressure control equipment: Double hydraulic pressure tested to 3,000 PSI, full closing hydril on top tested to 3,000 PSI. Pressure control diagram is attached. Testing will be on installation, daily and on trips. 4. Proposed circulating medium: 0-1,200' - Spud Mud, 1,200-4,500' - Brine Water. 5. Estimate will encounter water from 890' to 950'. 6. Estimate will encounter oil at 4,370 feet. 7. Logging Program: Gamma Ray Neutron Log 8. No coring or drill stem testing. 9. No abnormal pressures or temperatures are expected to be encountered 10. Anticipated starting date is March 20, 1987. MAR TO 1997 IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive In Above space bescribe Professor Professor Professor is to despend on the 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. March 5, 198 President Smith (This space for Federal or State office use) APPROVAL DATE MA SELVE 15 APPROVED BY SCALL adam 1 - 1 3 1 1 ... CONDITIONS OF APPROVAL, IF ANY ;

