

| | |
|------------------------|---|
| NO. OF COPIES RECEIVED | 6 |
| DISTRIBUTION | |
| SANTA FE | 1 |
| FILE | 1 |
| U.S.G.S. | 1 |
| LAND OFFICE | 1 |
| OPERATOR | 1 |

RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION
NOV 16 1970
O. C. C.
ARTESIA, OFFICE

30-005-60152
Form C-101
Revised 1-4-65

| |
|--|
| 5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 5. State Oil & Gas Lease No. K-4025, L-2463 |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | |
|--|---|---|
| 1a. Type of Work b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | 7. Unit Agreement Name NA |
| 2. Name of Operator Shenandoah Oil Corporation | | 8. Farm or Lease Name New Mexico "L" State |
| 3. Address of Operator 1500 Commerce Building, Fort Worth, Texas 76102 | | 9. Well No. #1 |
| 4. Location of Well UNIT LETTER K LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE OF SEC. 16 TWP. 6S RGE. 27E NMPM | | 10. Field and Pool, or Wildcat Undesignated |
| | | 12. County Chaves |
| 19. Proposed Depth 6500 | | 19A. Formation Penn. Siluro-Devonian |
| 20. Rotary or C.T. Rotary | | |
| 21. Elevations (Show whether DF, RT, etc.) 4086 GR | 21A. Kind & Status Plug. Bond Blanket | 21B. Drilling Contractor Ard Drlg. Co. |
| | | 22. Approx. Date Work will start 11-20-70 |

23.

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|--|----------|
| 17 1/2" | 13 3/8 | 48# | 30' | Circ. 9 | Surface |
| 11" | 8 5/8" | 24# | 1400' | Circ. | Surface |
| 7 7/8" | 4 1/2" | 9.5# & 10.5# | 6500' | Sufficient amount to cover all potentially productive zones. | |

The 13 3/8" casing will be set with rat hole digger and cemented; the 8 5/8" casing will be set by Rotary and cement circulated to surface by plug displacement. If commercial production is encountered, 4 1/2" casing will be set by Rotary and cement brought to a depth sufficient to cover all potentially productive zones.

The 8 5/8" casing and BOP's will be tested to 1000 psi prior to drilling out casing shoe; the 4 1/2" will also be tested to 1000# prior to perforating for production.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,
EXPIRES **2-16-71**

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed *[Signature]* Title Manager, Drilling & Primary Operations 11-12-70
(This space for State Use)

APPROVED BY *W. A. Gressett* TITLE OIL AND GAS INSPECTOR DATE NOV 16 1970

CONDITIONS OF APPROVAL, IF ANY:
Cement must be circulated to
surface behind 8 5/8" casing