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NEW MEXICO OIL CONSERVATION COMMISSION

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MAY 15 1979

O. C. C.
ARTESIA, OFFICE

30-015-22924

Form C-101
Revised 1-1-65

| |
|--|
| 5A. Indicate Type of Lease |
| STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 5. State Oil & Gas Lease No. |
| E-2943 |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | |
|---|--|---|--|
| 1a. Type of Work | | 7. Unit Agreement Name | |
| b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | 8. Farm or Lease Name State "16A" Com. | |
| 2. Name of Operator Southland Royalty Company ✓ | | 9. Well No. 1 | |
| 3. Address of Operator 1100 Wall Towers West, Midland, Texas 79701 | | 10. Field and Pool, or Wildcat Turkey Track (Morrow) | |
| 4. Location of Well UNIT LETTER O LOCATED 990 FEET FROM THE south LINE AND 1980 FEET FROM THE east LINE OF SEC. 16 TWP. 19S RGE. 29E NMPM | | 12. County Eddy | |
| 15. Proposed Depth 11,600' | | 19A. Formation Morrow | |
| 21A. Kind & Status Plug. Bond Blanket | | 20. Rotary or C.T. Rotary | |
| 21B. Drilling Contractor Hondo Drlg. Co Rig #5 | | 22. Approx. Date Work will start 5-17-79 | |
| 21. Elevations (Show whether DT, RT, etc.) 3339.1 GL | | | |

23.

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 15" | 11 3/4" | 42# | 275' | 350 | Circ. |
| 11" | 8 5/8" | 24# | 2800' | 1000 | Circ. |
| 7 7/8" | 4 1/2" | 11.6# | 11,600' | 800 | 9000' |

Set surface csg @ 275' or T/salt, circ. cmt. Drill 11" hole w/brine water to prevent wash out to 2800', set 8 5/8" csg @ 2800', circ. cement. Drill 7 7/8" hole w/fresh water to 7500'. Add brine water @ 7500' to raise mud wt. Drill to TD to test Morrow and intermediate horizons. If commercial will run 4 1/2" to TD. Cement w/sufficient cement to bring cmt above all prospective zones. Estimated T/cement @ 9000'. Perforate and stimulate Morrow for production. MUD PROGRAM: 0-300' spud mud. 300-2800' 10# brine water. 2800-7500' fresh water; 7500-9500' cut brine water; 9500-TD starch, gel, Flosal, Drispac 10.0# vis 36-40, WL 6cc through Morrow. Bottom hole pressure @ TD anticipated to be 4700 psi. No abnormal pressures anticipated. BOP PROGRAM: BOP to be installed on 11 3/4" double 10" Ser. 900. BOP to be installed on 8 5/8" double 10" Ser. 900 plus 10" Ser 900 Hydril plus Drlg. Head. Test w/Yellow Jacket, Inc. after setting 8 5/8" csg. Test BOP daily. GAS IS NOT DEDICATED.

APPROVAL AND
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 8-16-79

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 C. Hammerman Title District Engineer Date 5-14-79

(This space for State Use)

APPROVED BY W. A. Gussert TITLE SUPERVISOR, DISTRICT II DATE MAY 16 1979

CONDITIONS OF APPROVAL, IF ANY:

Cement must be circulated to
surface behind 13 7/8" 48 3/8" casing