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NEW MEXICO OIL CONSERVATION COMMISSION

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SEP 18 1978

O. C. C.  
ARTESIA, OFFICE

30-015-22693

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. | L-1610   |

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

|   |  |   |   |
|---|--|---|---|
| 1a. Type of Work  |  | 7. Unit Agreement Name                                  |   |
| b. Type of Well<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/><br>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<br>State "23" Com.                |   |
| 2. Name of Operator<br>Southland Royalty Company  |  | 9. Well No.<br>1  |   |
| 3. Address of Operator<br>1100 Wall Towers West, Midland, TX 79701  |  | 10. Field and Rock, or Wildcat<br>Undesignated (Morrow) |   |
| 4. Location of Well<br>UNIT LETTER J LOCATED 1980 FEET FROM THE south LINE<br>AND 1980 FEET FROM THE east LINE OF SEC. 23 TWP. 19-S RGE. 29-E NMPM  |  | 11. County<br>Eddy                                      |   |
| 19. Proposed Depth<br>11,800'   |  | 19A. Formation<br>Morrow                                |   |
| 20. Rotary or C.T.<br>Rotary  |  |   |   |
| 21. Elevations (Show whether D.F., R.T., etc.)<br>3319.2' G.L.  | 21A. Kind & Status Plug. Bond<br>Blanket | 21B. Drilling Contractor<br>Hondo Drilg. Co. Rig #5     | 22. Approx. Date Work will start<br>9-19-78 |

## 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#             | 300 500' CAC  | 400             | Circ.    |
| 11"          | 8 5/8"         | 24#             | 3,000'        | 1100            | Circ.    |
| 7 7/8"       | 4 1/2"         | 11.6#           | 11,800'       | 900             | 8700'    |

Set surface csg @ 500', circ cement. Drill 11" hole w/brine wtr to prevent washout. Drill 11" hole to 3000', set 8 5/8" (approx 150' into San Andres). Circ cement on 8 5/8". Drill 7 7/8" hole w/fresh water to 7500'. Add brine wtr @ 7500' to raise mud weight. Drill to T.D. to test Morrow and intermediate horizons. If commercial, will run csg to T.D. Cement w/ sufficient cement to bring cement above all prospective zones. Estimated T.D. 8700'. Will run cement staging tool @ 10,100'± to obtain better cement job if intermediate horizons productive. Perf and stimulate Morrow for production.

NOTE: GAS IS NOT DEDICATED

MUD PROGRAM: 0-500' spud mud; 500'-3000' - 10# brine water; 3000-7500' fresh water; 7500-9500' cut brine water & gel 9.4#, Vis 35; 9500' - T.D. starch gel, flosal, Drispac, 9.8# gal, Vis 36-40 @ T.D. WL 6 cc through Morrow. Bottom hole pressure @ T.D. anticipated to be 4800 psi. No abnormal pressures expected.

BOP PROGRAM: BOP to be installed on 11 3/4", double 10" Ser 900. BOP installed on 8 5/8" csg., double 10" Ser 900 plus Ser 900 Hydril. BOP to be tested daily.

IF 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 A. Harvey Carr Title District Engineer Date 9-16-78

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE SEP 19 1978

CONDITIONS OF APPROVAL, IF ANY:

Cement must be circulated to  
surface behind 11 3/4" + 8 5/8" casing

