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NEW MEXICO OIL CONSERVATION COMMISSION
SEP 15 1978
O. C. C.
ARTESIA, OFFICE

30-015-22692
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-2473

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 "16" Comm.	
2. Name of Operator Southland Royalty Company		9. Well No. 1	
3. Address of Operator 1100 Wall Towers West, Midland, TX 79701		10. Field and Pool, or Wildcat Undesignated	
4. Location of Well UNIT LETTER F LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE OF SEC. 16 TWP. 19-S RGE. 29-E NMPM		12. County Eddy	
13. Proposed Depth 11,600'		19A. Formation Morrow	
21. Elevations (Show whether DF, RL, etc.) 3353.3 GR		20. Rotary or C.T. Rotary	
21A. Kind & Status Plug. Band Blanket		22. Approx. Date Work will start 9-15-78	
21B. Drilling Contractor Hondo Drlg. Co. Rig #5			

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#	300-450'	350	Circ.
11"	8 5/8"	24#	2800'	1000	Circ.
7 7/8"	4 1/2"	11.6#	11,600'	900	8500

* 300' on top of salt.

Set surface csg @ 450', circ cmt. Drill w/brine water to prevent excessive washout into San Andres. Set intermediate @ 2800' (approx. 150' into San Andres), circ cmt. Drill w/fresh water to 7500', start cutting w/brine water to raise weight. Drill to TD to test Morrow & intermediate horizons. If commercial, will run csg to TD. Cement w/sufficient cement to bring cmt above all prospective zones. Estimated t/cmt @ 8500'. Will run cmt, staging tool @ 10,000' - to obtain better cmt job if intermediate horizons productive. Perf and stimulate Morrow.

MUD PROGRAM: 0-450' spud mud. 450-2800' 10# brine water. 2800-7500' freshwater. 7500-9500' cut brine water and gel 9.2 vis 32. 9500-TD starch, gel, flosal, Drispac 9.5# vis 36-40 WL 6 cc through Morrow. BHP @ TD anticipated to be 4700 psi. No abnormal pressures expected.

BOP PROGRAM: BOP to be installed on 11 3/4" double 10" Ser. 900. BOP installed on 11 3/4" double 10" Ser. 900 plus Ser 900 Hydril. BOP to be tested & drilling commenced.

GAS IS NOT DEDICATED.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED.
EXPIRES 12-19-78

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. Harney Carr Title District Engineer Date 9-11-78

(This space for State Use)

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

CONDITIONS OF APPROVAL, IF ANY:

* as noted above

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