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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

30-015-23460

5A. Indicate Type of Lease
STATE ☒ FEE ☐

5. State Oil & Gas Lease No.
648

Amended as to location.*

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. Form or Lease Name State 30A Com.	
2. Name of Operator Southland Royalty Company		9. Well No. 1	
3. Address of Operator 1100 Wall Towers West		10. Field and Pool, or Wellcat Undesignated (Morrow)	
4. Location of Well UNIT LETTER B LOCATED 660 FEET FROM THE North LINE AND *2200 FEET FROM THE East LINE OF SEC. 30 TWP. 19-S RGE. 28-E NMPM		12. County Eddy	
19. Proposed Depth 11,300		19A. Formation Morrow	
20. History or C.T. Rotary			
21. Elevations (show whether Dr, RT, etc.) 3479.7'	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Hondo Drlg Co. Rig #5	22. Approx. Date Work will start 4-15-81

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#	350	500	Circ
11"	8 5/8"	24#	2500	1100	Circ.
7 7/8"	4 1/2"	11.6#	11,300	800	9000'

Set surface csg. @ 350' at T/salt. Circ. cement. Drill 11" hole w/brine wtr. and set 8 5/8" csg. @ 2,500'. Drill to TD to test Morrow and intermediate horizons. If commercial, run 4 1/2" csg. to TD. Cement w/sufficient volume to bring above all prospective zones. Estimated T/cement @ 9,000'. Perforate and stimulate Morrow for production.

MUD PROGRAM: 0-350' spud mud; 350'-2,500' 10# brine wtr. 2,500-7,500' fresh wtr.; 7,500-9,500', cut brine wtr; 9,500'-TD starch gel, flosal, Drispac, Mud Weight 10.0#, Vis 36-40, wl 6 cc through Morrow. Bottom hole pressure @ TD anticipated to be 4500 psi. No abnormal pressures expected. Gas separator to be set by 4,000'.

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 Hydrill plus Drlg. Head. Test with Yellow Jacket, Inc. after setting 8 5/8". Test BOP daily.

GAS IS NOT DEDICATED

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 BLOW-OUT 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 District Operations Engineer Date 3-31-81

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR, DISTRICT II DATE APR 03 1981

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 7-3-81
LESS DRILLING UNDERWAY