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NEW MEXICO OIL CONSERVATION COMMISSION

AUG 26 1980

O. C. D.

ARTESIA, OFFICE

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.	
648	

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 Comm 30-A	
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 Undesignated (Morrow)	
4. Location of Well UNIT LETTER <u>B</u> LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>30</u> TWP. <u>19-S</u> RGE. <u>28-E</u> NMPM		12. County Eddy	
19. Proposed Depth 11,300		19A. Formation Morrow	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 3479.7'	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Hondo Drlg Co. Rig 5	22. Approx. Date Work will start 10-30-80

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. to prevent wash out. Drill 11" hole to 2500', set 8 5/8" csg. @ 2500'. Drill to TD to test Morrow and intermediate horizons. If commercial will run 4 1/2" csg. to TD. Cement w/sufficient cement to bring cement above all prospective zones. Estimated T/cement @ 9000'. Perforate and stimulate Morrow for production.

Mud Program: 0-350' spud mud; 350'-2500' 10# brine wtr. 2500-7500' fresh wtr.; 7500-9500', cut brine wtr; 9500-TD starch gel, flosal, Drispac 10.0# vis 36-40, w/ 6 cc through Morrow. Bottom hole pressure @ TD anticipated to be 4500 psi. No abnormal pressures expected. Gas separator to be set @ 4000'.

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 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 Donald R. Cray Title District Operation Engineer Date 8-21-80

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE SEP 5 - 1980

CONDITIONS OF APPROVAL, IF ANY:

EXPIRES 12-5-80