

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-23090

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE
 2. NAME OF OPERATOR O. C. C.
 3. ADDRESS OF OPERATOR Southland Royalty Company, ARTESIA, OFFICE
 4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.)*
 At surface 1100 Wall Towers West, Midland, Texas 79701
 At proposed prod. zone 1980' FSL, 1980' FEL, Sec. 20, T-19-S, R-27-E
 Same Same
 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 13 miles NE of Carlsbad
 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1980'
 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N.A.
 19. PROPOSED DEPTH 10,800'
 17. NO. OF ACRES ASSIGNED TO THIS WELL 320
 20. ROTARY OR CABLE TOOLS Rotary
 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3392.15' GR
 22. APPROX. DATE WORK WILL START* 12-15-79

5. LEASE DESIGNATION AND SERIAL NO. NM 13627
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME Pecos River Fed. 20 Comm.
 9. WELL NO. 1
 10. FIELD AND POOL, OR WILDCAT Undesignated (Morrow)
 11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA Sec. 20, T-19-S, R-27-E
 12. COUNTY OR PARISH Eddy 13. STATE N.M.

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ARTESIA, NEW MEXICO

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42#	200'	300 SXS.
11"	8 5/8"	24#	2000'	1000 SXS.
7 7/8"	4 1/2"	11.6#	10,800'	700 SXS.

Propose to set 11 3/4" csg. to 200', circ. cmt. Set 8 5/8" csg @ 2000' circ. cmt. Drill to TD of 10,800' to test Morrow & intermediate horizons. If commercial, will run 4 1/2" csg to TD. Cmt. w/sufficient cmt to bring cmt. back above all productive zones or to approx. 8500' if Morrow only productive. If intermediate horizons indicate production will run DV tool @ 9600'+ and use additional cmt volumes to obtain better cmt over intermediate zone. Will perf & stimulate Morrow for production. Acid treatment to be determined on sand interval present, will use approx. 200 gals/ft. MUD PROGRAM: 0-200' spud mud; 200-2000' brine wtr. for lost circ & seepage; 2000-7500' fresh wtr; 7500-9000' cut brine wtr 9.5#/gal; 9000-TD Flosal, Drispac, starch & gel bring wt. to 10.0#/gal. vis 40cc w/ 6cc through the Morrow. No abnormal pressures anticipated w/BHP at TD expected to be 4000 psi. 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 drilling head. Yellow Jacket, Inc. to test 8 5/8" installation. BOP to be tested by Rig 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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED C. Harvey Carr TITLE District Engineer DATE 11-16-79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: