

SEP 14 1964

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DRILLING PROGNOSIS

LEASE: Jones Federal "B"

WELL NO.: ~~115~~ 3

DISTRICT: Midland

FIELD: Lusk Strawn

PROJECTED T.D.: 11,500'

EST. ELEVATION: 3540' G.L.

LOCATION: 660' PSL & 660' FEL, Sec. 23, T-19-S, R-31-E, Eddy County, New Mexico

DRILLING, CASING AND CEMENTING:

1. Drill 17 1/2" hole to 600'±.
2. Cement 13 3/8", 48 #/ft., H-40, ST&C casing at 600' with sufficient 50-50 Incor Pozmix w/2% CaCl₂ to circulate. Run bar centralizers on float shoe and bottom two joints. Use a guide shoe and insert float.
3. If float holds, release pressure immediately. WOC 6 hrs., install BOP and nipple up.
4. After 12 hrs. WOC, pressure test casing to 1000 psi for 30 min. and drill out if o.k.
5. Drill 11" hole to 4000'±.
NOTE: Loss of circulation may be encountered between 2800' and 3500'. If severe at this location, hole may be dry drilled to intermediate points. Do not exceed 20000# bit weight and 60 RPM until first three drill collars are below casing shoe.
6. At intermediate point, run 8 5/8" OD casing as follows:
0 - 4000': 32 #/ft., J-55, ST&C
Use a guide shoe with insert float in second collar. Use weld-on bar centralizers on shoe and first two collars. Run a D.V. cementing tool at a point 150' below the base of the salt section. Base of salt is estimated at 2250' in this well. Run metal petal cement basket 1 joint below D.V. tool.
7. Cement in two stages as follows:
1st Stage: 200 sx 50-50 Pozmix-Incor w/6% gel followed by 100 sx Incor containing 2% CaCl₂.
2nd Stage: 1200 sx 50-50 Pozmix-Incor with 6% gel followed by 100 sx Incor containing 2% CaCl₂. Cement should circulate. Condition mud ahead of cement with 1# sodium bichromate and 0.2# caustic soda/barrel.
8. If float holds, land casing as cemented, release pressure and nipple up BOP. WOC 8 hrs. and run temperature survey. Pressure test D.V. tool before drilling out and casing to 1000 psi for 30 minutes after 12 hrs. WOC and drill out with 7 7/8" bit. Do not exceed 20000# weight and 60 RPM until first three drill collars are below casing shoe.
9. Drill 7 7/8" hole to 11,500'±.
10. Run 4 1/2" casing as follows:
0 - 3300: 11.6 #/ft., N-80, LT&C
3300 - 8000: 11.6 #/ft., J-55, ST&C
8000 - 11500: 11.6 #/ft., N-80, LT&C

Use float shoe, differential fill-up collar. Use reciprocating scratchers and centralizers to cover productive interval.

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