

LEA STATE "G" #4

Ran 310 joints 12,582.88' of 5" OD 15 and 18# N-80 R-3 SS Casing. Set and cemented at 12,599' w/205 sacks 4% Gel Trinity inferno cement. Plug at 12,514' Maximum Pressure 1100#. Howco temperature survey in 8 hours showed top cement behind 5" OD casing at 11,810'. Perforated by HOWCO w/2, $\frac{1}{2}$ " bullet holes at 11,760'. Picked up 2-3/8" tubing with 5" HOWCO type DM cement bridging plug on bottom of tubing. Set HOWCO 5" plug at 11,710'. Recemented thru perforations in 5" casing at 11,760' w/600 sacks 8% Gel Regular Trinity cement and 50 sacks neat Longhorn cement on bottom. Back off from bridge plug, pulled up to 11,700' and back washed approximately 5 sacks cement. HOWCO temperature survey in 8 hours found top cement at 8120' from Rotary bushing.

After waiting over 30 hours went in hole, drilled cement from 11,700' to 11,760', cleaned out to 11,820', tested perforations in 5" casing at 11,760' w/2000# pressure for 30 minutes. There was no drop in pressure. Cleaned out to top cement plug at 12,514'. Drilled cement to 12,595'.

After approval of Mr. Yarbrough, State Oil and Gas Inspector, preparations were made to complete well.

