

Attachment- C-103

Gulf Oil Corporation - F. W. Kutter Well No. 1-0, 20-19S-37E

Repaired leak in 5-1/2" casing as follows:

1. Pulled rods, pump and tubing.
2. Set 5-1/2" bridge plug at 3822'. Dumped 2 sacks cement on top of plug.
3. Ran HOWCO HRC tool. Found leak between 1220-1252'.
4. Perforated 5-1/2" casing with 2, 1/2" holes at 1300'.
5. Set 5-1/2" cement retainer at 1189'. Pumped 100 sacks 4% Gel. Circulated approximately 10 sacks out 7-5/8" bradenhead. Pumped 235 sacks 4% Gel down 10-3/4" casing in 5 stages.
6. Tested 7-5/8" - 10-3/4" bradenhead with 500# for 30 minutes. No drop in pressure.
7. Drilled cement and retainer from 1189-1308'. Pressure tested 5-1/2" casing with 1000# for 30 minutes. No drop in pressure.
8. Drilled cement and bridge plug at 3812'. Cleaned out to 4007' (total depth).
9. Reran tubing, rods and pump. Returned well to production.