

Attachment - C-103

Gulf Oil Corporation - Elbert Shipp "B" No. 1-L, 8-19-37

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

1. Attempted to pull tubing. Tubing stuck. Pumped fresh water down 5-1/2" casing in an attempt to dissolve salt ring. Ran McCullough magnatector. Showed tubing stuck at 2322'. Cut tubing at 2297' and pulled free tubing. Reran tubing with 2 drill collars and 3 Jts 4-1/2" wash pipe. Washed over tubing. Pulled tubing, drill collars and wash pipe. Reran tubing with overshot. Pulled and recovered fish.
2. Ran 5-1/2" gauge ring to 3815'. Ran 5-1/2" Baker magnesium bridge plug on wire line set at 3800'. Dumped 2 sacks cement on top of plug.
3. Ran HRC tool. Found top hole at 812', bottom hole at 2300'.
4. Set ~~Howco~~ Howco DM retainer at 2232'. Failed to break circulation out 7-5/8" bradenhead. Pulled tubing. Drilled out retainer.
5. Perforated 5-1/2" casing at 2300' with 2, 1/2" Jet Holes. Ran HRC tool set at 2270'. Tested below tool. Injection rate 2 bbls per minute at 1500#. Pulled tubing and HRC tool. Reran tubing with Howco DM retainer set at 2198'. Cemented thru perforations at 2300' with 265 sacks cement in 8 stages. Maximum pressure 800#. Reversed out 30 sacks cement. WOC.
6. Ran HRC tool to 1907'. Tested below tool with 1000# for 30 minutes. No drop in pressure. Tested above tool. Injection rate 1 bbl per minute at 1200#. Reset HRC tool at 1877'. Injection rate below tool 1/2 bbl per minute, above tool 1-1/2 bbl per minute at 1000#. Pulled tubing and tool.
7. Perforated 5-1/2" casing with 2, 1/2" Jet Holes at 1905'. Ran tubing with DM retainer set at 1808'. Broke circulation on 7-5/8" annulus. Pumped 883 sacks cement thru casing perforations at 1905'. Cement circulated. Pulled tubing. Pumped 50 sacks cement down 10-3/4" - 7-5/8" bradenhead. WOC.
8. Ran tubing and bit to top cement at 1316'. Tested casing with 900# for 30 minutes. No drop in pressure. Drilled cement and retainer to 1916'. Tested with 800#, dropped 275# in 2 minutes. Drilled out to 2345'. Lowered bit to 2375'. Tested with 800#. Dropped 40# in 30 minutes then built up from 760# to 920# in 1-1/2 hours. Pulled tubing and bit.
9. Ran tubing and HRC tool. Found top hole between 1752-1754', bottom hole between 2319-2321'. Pulled tubing and tool.
10. Perforated 5-1/2" casing at 2320' and 1753' with 2, 1/2" Jet Holes. Set HRC tool at 2304'. Tested below tool with 1000# for 30 minutes. No drop in pressure. Pulled tubing and tool.
11. ~~Ran tubing with 5-1/2" DM cement retainer set at 2257'. Pumped 109 sacks Neat cement thru perforations at 2320' in 8 stages. Maximum pressure 2000#. Pulled tubing. WOC.~~
12. Ran tubing with DM retainer set at 1684'. Pumped 128 sacks Neat cement thru perforations at 1753'. Maximum pressure 200#. Pulled tubing up 10' and backwashed approximately 20 sacks cement. Pulled tubing. WOC.
13. Ran tubing with bit to 1673'. Tested casing with 800# for 30 minutes. No drop in pressure. Drilled cement and retainers, drilled and pushed bridge plug to 4040' (TD). Tested at intervals 1700', 1767', 1815', 2341' with 800#, 800#, 500# and 500# respectively. No drop in pressure. Pulled tubing and bit.
14. Ran 131 Jts 2-3/8" tubing set at 4032'. Sweet hookwall packer at 3768'. Swabbed and well kicked off. Returned well to production.

Please cancel DC-226 and NSP-181.