

Attachment - C-103

Gulf Oil Corporation @ Arnett Ramsay "C" No. 1-M, 21-21-36, Eunice Pool

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

1. Pulled rods, pump and tubing.
2. Set Baker wire line magnesium bridge plug at 3775'. Dumped 1-1/2 sacks cement on top of bridge plug.
3. Ran HRC tool. Found top hole at 290', bottom hole at 2388'.
4. Ran Howco DM cement retainer set at 2262'.
5. Squeeze cemented below retainer with 500 sacks 4% Gel. Maximum pressure 1800#. Did not circulate. After 18 hours temperature survey indicated top cement behind 5-1/2" casing at 1650'.
6. WOC.
7. Perforated 5-1/2" casing at 1575' with 2, 1/2" Jet Holes.
8. Ran tubing with HRC tool set at 1497'. Broke circulation on 7-5/8" - 5-1/2" annulus.
9. Ran tubing with 5-1/2" Howco DM retainer set at 1482'. Cemented with 300 sacks regular cement. Circulated 15 sacks. Closed bradenhead and squeezed with 55 sacks regular cement. Maximum pressure 800#.
10. Cemented down 10-3/4" casing with 100 sacks regular cement.
11. Waited on cement.
12. Drilled out cement, retainer and bridge plug. Tested casing with 400# for 30 minutes. No drop in pressure.
13. Reran rods, pump and tubing. Returned well to production