

Attachment - C-103

Gulf Oil Corporation - B. V. Culp "B" No. 3-B, 31-19-37

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

1. Pulled tubing.
2. Ran 5-1/2" Baker Model N bridge plug set at 3730'. Dumped 2 sacks cement on top of plug.
3. Ran HRC tool. Found leak between 510' and 540'.
4. Perforated 5-1/2" casing with 2 Jet Holes at 1115'.
5. Ran 5-1/2" Howoe DM cement retainer set at 1060'. Pumped 120 sacks 4% Gel cement below retainer and circulated out 7-5/8" casing. Closed 7-5/8" bradenhead and squeezed with 200#. Picked tubing up 10' and reversed out approximately 20 sacks cement.
6. Waited on cement.
7. Pressured 10-3/4" casing with 200# for 30 minutes. No drop in pressure. Pressured 5-1/2" casing with 500# for 30 minutes. No drop in pressure. Pressured 7-5/8" casing with 300# for 30 minutes. No drop in pressure.
8. Drilled cement and retainer to 1156'. Pressured 5-1/2" casing with 600#. Fled off 100# in 1-1/2 hours.
9. Ran HRC tool. Found leak between 1104' and 1135' and between 1505' and 1536'.
10. Set 5-1/2" DM cement retainer at 1061'. Squeezed 360 sacks 4% Gel cement below retainer. Pumped 250 sacks, staged 114 sacks in 4 stages. Maximum pressure 800#. Back washed 20 sacks cement.
11. Waited on cement.
12. Pressured 5-1/2" casing with 500#. No drop in pressure. Drilled cement and retainer to 1490'. Pressured 5-1/2" casing at 1151', 1244' and 1500' with 500#. No drop in pressure.
13. Drilled out bridge plug. Returned well to production.