

Attachment - C-103

Gulf Oil Corporation - F. W. Kutter "C" No. 1-H, 18-19-37

In the process of dual completing subject well in the Monument Oil and the Eumont Gas Pools, a casing leak was discovered. Repaired 7" casing leak as follows:

1. Pulled tubing. Ran steel line measurement to 4026' (TD). Ran Gamma Ray Neutron survey with collar locator.
2. Ran tubing with 7" retrievable bridge plug set at 3850'. Set parent packer at 1897', 1500', 1001', and 502'. Pressure tested each setting with 500# for 30 minutes. No drop in pressure.
3. Ran 7" gauge ring and junk basket. Set 7" Baker production packer at 3800'. Perforated 7" casing from 3476-3524' and 3536-3600' with 4, 1/2" JHpf. Ran tubing.
4. Opened circulating valve at 3760'. Swabbed and well kicked off. Gas volume 1,204,200 cu ft.
5. Washed perforations from 3476-3524' and 3536-3600' with 1000 gallons mud acid.
6. Swabbed and well kicked off. Gas volume 1,420,000 cu ft. Closed well in. 9-5/8" annular pressure 250#. Blew to 0# in 18 minutes. Made small amount of gas. Blew 2-3/8" tubing and 7" casing to air. Equalized at 50# in 2 hours.
7. Pulled tubing. Reran with 7" Baker retrievable bridge plug set at 3435', parent packer at 3399'. Pressured below parent packer with 700#. Dropped 150# in 8 minutes. Raised bridge plug to 3430', parent packer at 3401'. Pressured below parent packer with 700#. Pressure dropped 75# in 10 minutes. Set bridge plug at 3399', parent packer at 3368'. Pressured below packer with 700#. Dropped 25# in 15 minutes.
8. Found bottom hole between 2212-2242', top hole between 1508-1538'.
9. Dumped 18 gallons Calseal. Filled up from 3800-3790'.
10. Ran Howco cement retainer set at 3385'. Pumped 101 sacks cement thru perforations 3476-3600'. Squeezed with 3000#. Backwashed approximately 40 sacks cement. Pulled tubing and retainer.
11. Perforated 7" casing at 2255' with 2, 1/2" Jet Holes. Could not break circulation.
12. Ran 6-1/4" bit on tubing to top cement at 2169'. Pressured 7" with 1000# for 30 minutes. No drop in pressure. Drilled cement and retainer from 2169-3530'. Tested 7" with 1025#. Pressure dropped 400# in 10 minutes. Drilled cement out to 3570'.
13. Ran tubing with HRC tool. Found top leak at 548', bottom leak between 1508-1538'.
14. Perforated 7" casing at 1550' with 2, 1/2" JH. Ran tubing with Howco DM retainer set at 1478'. Cemented below retainer with 589 sacks cement. Maximum pressure 1100#. Circulated 5 sacks cement. WOC.
15. Tested 7" casing with 800# for 30 minutes. No drop. Drilled cement and retainer from 1443-1610'. Drilled Calseal from 3790-3798'. Drilled and pushed production packer to 4026'. Returned well to production.

Request cancellation of DC-186 and NSP-119.