

Attachment - C-103

Gulf Oil Corporation - John Allen No. 1-C, 14-9-35

Abandoned Bough Pay and attempted recompletion in the Queen formation as follows:

1. Pulled tubing. Ran Howco 7" cast iron cement retainer set at 9642'. Squeezed below retainer with 36 sacks regular cement. Maximum pressure 3500#. Raised tubing to 9622', backwashed approximately 3 sacks cement. Spotted 34 bbls heavy mud from 9622-8550'.
2. Shot casing off at 8538'. Could not pull. Shot off casing again at 8395'. Could not pull. Shot off casing at 8304'. Pulled 228 Jts 7" casing.
3. Spotted 38 sacks cement from 8592-8492', heavy mud from 8492-6950', 38 sacks cement from 6950-6850', heavy mud from 6850-5520', 38 sacks cement 5520-5420', heavy mud from 5420-4150', 30 sacks cement from 4150-4050'. WOC.
4. Perforated 9-5/8" casing from 3605-3630', 3500-3535' with 4, 1/2" jet holes per foot.
5. Ran tubing set at 3646'. Swabbed well.
6. Treated perforations in 9-5/8" casing from 3500-3535' and 3605-3630' with 500 gallons 15% MCA acid. Average injection rate 45 gallons per minute. Swabbed well.
7. Ran tubing with HRC tool set at 3649'. Tested plug in 9-5/8" casing with 1500# for 30 minutes. No drop in pressure. Pulled up 2 jts, set HRC tool between perforations at 3589'. Tested perforations in 9-5/8" casing from 3605-3630' with 75 bbls water. No communication on upper perforations.
8. Pulled tubing and HRC tool. Ran tubing with 9-5/8" Howco DC cement retainer set at 3578'. Squeezed 250 sacks Neat cement thru casing perforations 3605-3630'. Staged 5 times in 4 hours. Final squeeze at 2500#. Set HRC tool at 3458'. Swabbed dry.
9. Ran tubing with Guiberson 9-5/8" packer and hydraulic holddown to 3532'. Treated perforations 3500-3535' with 250 gallons 15% MCA acid. Average injection rate 28 gallons per minute. Swabbed dry. Treated same perforations with 7000 gallons gelled lease crude with 1# sand per gallon. Average injection rate 11.5 bbls per minute. Well swabbed dry. Will submit C-102 to plug and abandon.