

Attachment - C-103

Gulf Oil Corporation - J. R. Holt #2-N, 16-24-37

Dually completed as an Oil-Gas well in the Langlie Mattix Oil and Jalmat Gas Pools as follows:

1. Pulled tubing.
2. Ran 2-7/8" tubing with Guiberson hookwall packer open ended. Tested 6" casing at 500', 1000', 1500', 2000', 2500' and 3000' with 1200#, 900#, 700#, 500#, 300#, and 200# respectively for 30 minutes. No drop in pressure. Set Guiberson packer at 3345', hydraulic holddown at 3343'. Treated open hole formation from 3340-3550' with 15,000 gallons Petrogel with 1# sand per gallon. Average injection rate 11.1 bbls per minute. Pulled 2-7/8" tubing, packer and holddown.
3. Swabbed and well kicked off.
4. Ran Baker Model D production packer on wire line set at 3365'. Ran 1 1/4 Jts (3516') 2-3/8" tubing with circulating valve at 3490'. Seal nipples in packer at 3365'. Pulled tubing above packer. Perforated 6" casing from 2650-2700', 2760-2830' and 2885-2945' with 2, 1/2" JH per foot.
5. Treated above perforations in 6" casing from 2650-2945' with 500 gallons mud acid. Average injection rate 21.7 gallons per minute. Swabbed and well kicked off. Gas volume 374 MCF with 75# back pressure.
6. Treated same perforations with 6000 gallons jelled lease crude with 1# sand per gallon. Average injection rate 10.6 bbls per minute. Swabbed and well kicked off.
7. Ran tubing and latched into Baker production packer. Circulating valve at 3296'. Jalmat Gas flowed at rate of 3,970 MCF with 320# back pressure.

Note: Work on this well has been completed but all load oil has not yet been recovered from the Langlie Mattix Zone.