

Attachment - C-103

Gulf Oil Corporation - T. R. Andrews No. 2-G, 32-22S-38E

Dually completed as Gas-Gas well in the Tubb and Blinetry Zones as follows:

1. Pulled tubing and flow valves.
2. Set Baker cast iron bridge plug at 6836'. Loaded hole with 143 bbls oil. Tested 5-1/2" casing with 1000# for 30 minutes. No drop in pressure.
3. Perforated 5-1/2" casing from 6795-6745' with 4, 1/2" JHpf.
4. Ran tubing. Swabbed well down.
5. Treated perforations in 5-1/2" casing from 6795-6745' with 10,000 gallons 15% NE acid. Swabbed well. Drinkard Oil Zone unproductive in commercial quantities.
6. Ran 5-1/2" Howco cement retainer set at 6400'. Squeezed cemented below retainer with 250 sacks regular cement. Maximum pressure 4200#. Left 10' cement above retainer.
7. WOC.
8. Tested 5-1/2" casing with 1000# for 30 minutes. No drop in pressure. Perforated 5-1/2" casing from 6070-6110', 6150-6275' with 4, 1/2" JHpf.
9. Swabbed and well kicked off. Gas volume 284,000 cu ft (Tubb Pay).
10. Treated perforations in 5-1/2" casing from 6150-6275' with 10,000 gallons acid frac, 1# sand per gallon. Inj rate 2 bpm.
11. Well kicked off. Gas volume 3,580,000 cu ft with 600# back pressure on tubing.
12. Reran tubing with packer at 6131'. Swabbed and well kicked off. Gas volume 2,080,000 cu ft with 160# back pressure (casing perforations 6070-6110').
13. Straddled 5-1/2" perforations from 6070-6110'. Treated with 2500 gallons ATO acid frac, 1# sand per gallon. Swabbed and well kicked off. Gas volume 2,160,000 cu ft with 175# back pressure on tubing.
14. Set Baker production packer at 6050'. Perforated 5-1/2" casing from 5580-5630' with 4, 1/2" JHpf.
15. ~~Straddled~~ Straddled 5-1/2" perforations from 5580-5630'. Treated with 5000 gallons ATO acid frac, 1# sand per gallon.
16. Well kicked off. Gas volume 3,840,000 cu ft thru casing annulus with 600# back pressure (Blinetry Gas).
17. Gas tested 2,630,000 cu ft thru 2-3/8" tubing with 600# back pressure (Tubb Gas).