

DETAILS OF WORK

Closson "B" No. 1 has been shut in following an attempt to plug back and recomplete as a gas well in the Jaland Pool.

A gamma ray and neutron log was run. A cement retainer was set at 3692'. The open hole was cemented with 40 sacks of cement from 3840' to 3692'. The 5½" casing was perforated 3480' to 3546' with two (2) shots per foot. Tubing was run with packer set at 3543', and acidized with 500 gallons of mud acid. The well swabbed down in five (5) hours. It was then acid fraced with 10,000 gallons and 10,000# of sand. It was shut in for twelve (12) hours prior to starting to swab. After swabbing for approximately 27 hours, the well started flowing. It produced at the rate of 119.4 MCF of gas per day. The well was tested for 15 hours, and produced 2-1/2 barrels of water, one (1) barrel of oil, choke 20/64", FTP 50%, FCP 175#. It was then tested for four (4) additional hours, and flowed at the rate of 120 MCF of gas per day on 21/64" choke, FTP 50#.

The 5½" casing was then perforated from 3675' to 3640' with two (2) shots per foot. Tubing was run with hookwall packer set at 3593' and acidized with 3,000 gallons. This zone was swabbed dry and there was no show of gas or fluid.

The packer was reset at 3439' and the zone from 3546' to 3480' was swabbed in an endeavor to recover the load. It was then shut in for twelve (12) hours, and the tubing pressure built up to 150%. Swabbed 16 barrels of water, 5 barrels of oil in 8 hours. Shut in twelve (12) hours and tubing pressure built up to 300%. Unloaded eight (8) barrels of fluid with swab. It was shut in for twelve (12) hours, and pressure built up to 700%. The well flowed by heads and swabbed eight (8) barrels of oil and water in eight (8) hours. The well was shut in for twelve (12) hours and pressure built up to 1150#. It was opened up and the well started flowing dry gas. The well was flowed intermittently to clean up. During this period, it flowed at the rate of 41 MCF per day. It was shut in after flowing to clean up for 24 hours, and then tested for 24 hours. It produced 43.2 MCF gas, 27/64" choke, FTP 20#. The well was shut in for several days after the work described previously was completed.

A pulling unit was moved in, the hole was loaded and the 5½" casing was perforated from 3585' to 3615' with sixty (60) shots. A retrievable bridge plug was set at 3625' with a hookwall packer set at 3565'. The perforations from 3585' to 3615' were acidized with 3,000 gallons. The well swabbed dry without recovering all the load and acid water. The packer was pulled and the well was shut in with ten (10) joints of tubing left in the hole pending further study and testing.

