

MIDDLETON FEDERAL "B" #2

DST #1: 10,662'-10,721' (59' Wolfcamp). Tool open 3 hours thru 5/8" BC, 1/4" TC, 4 1/2" DP. Opened with strong blow. GTS 7 minutes. OTS 55 minutes. Flowed gas thru 1/4" choke at 200 psi during first 55 minutes. During second hour flowed 13 BO + 480 MCFPD at 400 psi thru 1/2" choke. During third hour flowed 25 BO + 900 MCFPD thru 3/4" choke. FSP 400 psi. Gravity 43.7 degrees API. GOR 1500. Reversed out 18 BO. Total Oil Recovery: 56 BO, no water. 60 minutes ISIBHP 4882 psi. FBHP 704-1351 psi. Maximum FBHP 1625 psi. 240 minutes FSIBHP 3780 psi. HMH 5308-5284 psi. Conclusive Test. (Cook)

DST #2: 11,453'-11,596' (143' Strawn). Attempted to straddle test with bottom packer at 11,514', packer failed. Tool open 1 hour 20 minutes thru 5/8" BC, 3/4" TC, 4 1/2" DP. Opened with fair blow. GTS 14 minutes. TSTM throughout test. Recovered 5760' gas, 30' slightly oil and gas cut mud, 5490' (70 barrels) gas cut salt water. 60 minutes ISIBHP 4214 psi. FBHP 829-2432 psi. 120 minutes FSIBHP 4191 psi. HMH in and out 5948-5924 psi. Recovered water titrated 15,000 ppm Cl<sup>-</sup>. Pit mud 600 ppm Cl<sup>-</sup>. Conclusive Test (Cook).