

CITIES SERVICE OIL COMPANY -- Merland B #1

Sec. 30-T22S-R27E, Eddy County, New Mexico

DST #1: 10365--10423 (58') Strawn. 1000' water cushion, 5/8" bottom choke, 1/4" top choke. Tool opened for 15 min. preflow with strong blow increasing to 50 psi. Gas to surface in 20 min. Took 1½ hour ISIP. Reopened tool, pressure increased to 55 psi in 20 min. decreasing to 28 psi at end of 2 hour flow period. Gas volume 26,200 cu. ft. per day. Took 3 hour 20 min. FSIP. Recovered 186' of distillate cut water blanket, 186' water blanket, 558' gas cut water blanket, and 279' distillate and gas cut mud. (Total recovery 1209' = 17 bbls.) ISIP 5586 psi 90 min., IF 497 psi, FF 540 psi, FSIP 5586 psi 3 hr. 20 min., MCP in & Out 5693 psi, BHT 164° F.

DST #2: 11335--11435 (100') Morrow, 2500' water cushion, 3/4" bottom choke, ½" top choke. Tool opened for 15 min preflow with a good blow. Water blanket to surface in 14 minutes with 1000 psi on 1/2" choke. Shut in for 1½ hour ISIP. Gas to surface in 20 min. After 15 min preflow, shut well in for 1½ hour ISIP. Reopened on ½" choke and unloaded water cushion to pit with pressure increasing to 1600 psi in 30 min. Switched flow through test equipment for 1½ hrs test. Flowed gas at rate of 5.338 MMCFD. FTP 2400 psi, 35/64" choke. Produced 3 barrels of fluffy gas cut mud in tank (titrates 127000 PPM chlorides). Shut in for 2 hour FSIP. Pulled test tool. Recovered 1212' (17 barrels) gas and water cut drilling mud that titrates 147000 PPM chlorides, mud in pit titrates 147000 PPM chlorides. 1½ hour ISIP 4808 psi, I.F. 1625 psi, F.F. 2872 psi, 2 hour FSIP 4785 psi, MCP (in) 6185 psi, MCP (out) 6093 psi, BHT 190° F.