

Cities Service Oil Company      #1 Spencer 'A'

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

DST #1: 10414-10444 (30') Strawn, 1500' water cushion, 3/4" bottom choke, 30/64" top choke. Tool opened for 15 min preflow at 8:15 A.M. 5/10/71. Good blow immediately. Fluid to top in 7 minutes. Unloaded water cushion. Gas to top in 10 min. with maximum surface pressure of 700 psi. Shut in for 1½ hour initial shut in pressure. Reopened tool on 30/64" choke for 1½ hour flow period. Flowed gas at rate of 7536 MCFD with flowing pressure of 1400 psi. No condensate to surface. Shut well in for 1½ hour final shut in pressure. Pulled packer loose and reversed out 560' of 56° gravity distillate (8.0 barrels), no water. 1½ hour ISIP 5405 psi, IF 1302 psi, FF 1995 psi, 1½ hour FSIP 4762 psi, MCP in 5956 psi, MCP out 5910 psi, BHT 160° F.

DST #2: 11385-11485--11485 (100') Morrow Sand. Testing two drilling breaks 11454--11465 and 11470--11481. Broke from 20 min/foot to 2-4 min /foot in both intervals. 5/8" bottom choke, 1/4" top choke. 2000' water cushion. Tool opened at 6 A.M. for preflow. Gas and cushion to surface in 7 min. at 500 psi. Cleaned choke and reopened on 24/64" choke at 6:20 A.M. Unloaded water cushion and built up to 3500 psi in 10 min. Shut in for 1½ hour ISIP @ 6:30 A.M. After preflow period, shut well in for 1½ hour ISIP. Opened well on 21/64" choke for flowing test at 8 A.M. Flowing pressure stabilized at 3525 psi producing gas at rate of 7.848 MMCFD. No fluid to surface. Shut well in at 10:00 A.M. for 2 hour FSIP. Pulled packer loose at 12 noon and pulled test tool. Recovered 30' of drilling fluid in drill pipe. No water. No oil. 1½ hour ISIP 4815 psi, IFP 4516 psi, FFP 4573 psi, 2 hour FSIP 4815, MCP in 5586 psi, MCP out 5586 psi, BHT 186° F.