

cut drilling mud. 120 minutes ISIBHP 4678 psi. FBHP 203-231 psi. 180 minutes FSIBHP 4066 psi. HMP 5503-5494 psi. Recovered mud titrated 500 ppm Cl<sup>-</sup>. Pit mud titrated 500 ppm Cl<sup>-</sup>. Maximum temperature 210° F. Conclusive Test. (Foster)

DST #6: 11,744'-11,894' (150' Des Moines). Tool open 1 hour 45 minutes thru 5/8" BC, 1/4" TC, 4 1/2" DP. Opened w/fair blow and continued throughout test. NGTS. Recovered 2500' gas in drill pipe + 180' (1 bbl.) slightly gas cut drilling mud. 105 minutes ISIBHP 710 psi. FBHP 197-197 psi. 180 minutes FSIBHP 239 psi. HMH 5644-5638 psi. Pit mud titrated 500 ppm Cl<sup>-</sup>. Recovered mud titrated 500 ppm Cl<sup>-</sup>. BHT 154° F. Conclusive Test. (Foster)

DST #7: 11,895'-12,287' (392' Pennsylvanian). Packer set at 11,829' inside 7 5/8" casing. Tool open 1 hour 36 minutes thru 5/8" BC, 1/4" TC, 4" DP. Opened w/weak blow, increased to fair and continued fair throughout test. GTS 2 1/2 hours. TSTM. Recovered 954' (6 bbls.) GCDM. 60 minutes ISIBHP 1605 psi. FBHP 632-632 psi. 120 minutes FSIBHP 738 psi. HMP 5860-5838 psi. Recovered mud titrated 500 ppm Cl<sup>-</sup>. Pit mud titrated 500 ppm Cl<sup>-</sup>. Conclusive Test. (Foster)

DST #8A: 12,689'-13,027' (338' Morrow). Misrun.

DST #8: 12,681'-13,027' (346' Morrow). Tool open 5 hours 55 minutes (including 18 minutes preflow) thru 3/4" BC, 1" adj. TC, 4" DP. Used 3000' water blanket. Tool opened w/strong blow. GTS 123 minutes (during ISI). Recovered 30 bbls. water blanket and mud. Recovered condensate TSTM. Gr. 49.4° API. Flowed gas at maximum rate 4.9 million CFPD on 48/64" choke. FSP 950 psi. Flowed at rate 4.58 million CFPD on 16/64" choke. FSP 2175 psi. 125 minutes ISIBHP 7658 psi. FBHP 1703-1832 psi. 80 minutes FSIBHP 7594 psi. HMP 8169-8105 psi. Recovered mud titrated 500 ppm Cl<sup>-</sup>. Pit mud titrated 500 ppm Cl<sup>-</sup>. BHT 178° F. Conclusive Test. (HOWCO)

DST #9: 13,051'-13,180' (129' Morrow). Used 3000' water blanket. Tool open 5 hours 31 minutes (including 22 minutes preflow) thru 5/8" BC, 1" TC, 4" DP. Opened w/weak blow. GTS in 60 minutes (during ISI). Water blanket to surface 60 minutes after tool open on second flow. Flowed to pits, rate increased to maximum 3.5 MCFPD in 1 1/2 hours. FSP 300 psi, decreased to 1.5 MCFPD during next hour. Next two hours rate stabilized at 1.0 MCFPD, FSP 125 psi. (Pitot tube measurements). Last 30 minutes turned thru separator, flowed 880,000 CFPD (unstabilized - increasing). FSP 200 psi. Recovered 1 gallon condensate, Gr. 45.5° API, 744' (7.5 bbls.) water blanket, 1116' (11 bbls.) HGCDM. BHT 178° F. 120 minutes ISIBHP 7503 psi. FBHP 1358-797 psi. 120 minutes FSIBHP 7450 psi. HMP 8443-8410 psi. Recovered water titrated 500 ppm Cl<sup>-</sup>, water blanket titrated 500 ppm Cl<sup>-</sup>, pit mud titrated 500 ppm Cl<sup>-</sup>. Conclusive Test. (HOWCO)

- DST #10: 14,240'-14,461' (221' Silurian-lower Mississippian). Tool open 1 hour 10 minutes (including 10 minutes preflow) thru 5/8" BC, 1" TC, 4" DP. Opened w/weak blow, increased to fair blow in total 25 minutes. NGTS. Recovered 6696' gas in DP + 7533' (56 bbls.) heavily gas cut mud. 60 minutes ISIBHP 5926 psi. FBHP 1645-1800 psi. 90 minutes FSIBHP 5727 psi. HMP 6680 psi. Recovered GCM titrated 1500 ppm Cl<sup>-</sup>. Pit mud titrated 1000 ppm Cl<sup>-</sup>. Conclusive Test. (HOWCO)
- DST #11: 14,430'-14,669' (239' Silurian). Tool open 2 hours 40 minutes thru 5/8" BC, 1" TC, 4" DP. Opened w/weak blow, increased to fair in 30 minutes. GTS 25 minutes at approximate rate 100 MCFPD on 3/4" choke. FSP 6 psi. Gradually decreased and last 1 1/2 hours flowed at rate TSTM. Unloaded 1400' gas and mud. Recovered 5300' (36 bbls.) HGCM w/strong sulfur odor. (Had drill pipe leak.) 75 minutes ISIBHP 5762 psi. FBHP 639-1555 psi. 180 minutes FSIBHP 5677 psi. HMP 6553-6553 psi. Recovered mud titrated 1500 ppm Cl<sup>-</sup>. Pit mud titrated 1000 ppm Cl<sup>-</sup>. Conclusive Test. (HOWCO)
- DST #12: 14,668'-14,870' (202' Silurian). Tool open 1 hour 50 minutes (including 5 minutes preflow) thru 5/8" BC, 1/4" TC, 4" DP. Opened w/fair blow. Shut in 90 minutes. Reopened w/fair blow on 1" choke. Decreased to weak blow in 15 minutes and continued throughout. NGTS. Recovered 3800' (38 bbls) slightly gas cut mud + 9300' (75 bbls.) sulfur water (had slight mud leak). 90 minutes ISIBHP 6280 psi. FBHP 2685-4955 psi. 120 minutes FSIBHP 6039 psi. HMP 6763-6763 psi. Recovered water titrated 44,000 ppm Cl<sup>-</sup>. Pit mud titrated 1500 ppm Cl<sup>-</sup>. Conclusive Test. (HOWCO)