

Monsanto Company
Rock Tank Unit Well No. 1

DRILL STEM TESTS

BST #1 8119-8284' Ciacee, I&FHP 3696 psi, 10" preflow w/good blow. 60" ISIP 1096 psi, still bldg. T.O. 60". IFF 27 psi, FFP 36 psi, 120" FSIP 851 psi, still bldg. GTS in 30", 6 psi on 1/4" initially (9 MCVPD) to zero on 1/4" at end. Recovered 130' drilling fluid. MFE sampler recovered nothing but gas w/no press.

BST #2 9950-10,025' Lower Morrow, 10" preflow w/GTS in 5" @ 1.5 MCVPD rate w/FF 258 psi. 60" SIP 4011 psi, 30" VP 513 psi @ 4 MCVPD, 60" SIP 3569 psi, still bldg., 30" VP 599 psi @ 5 MCVPD, 120" SIP 3948 psi, still bldg. Recovered 210' gas cut drilling fluid. MFE sampler 200 psi, .8 cu.ft. gas. FSIP extrapol. to 4075.

BST #3 10,080-10,224' Lower Morrow, T.O. for 10". BC 1", TC 1/8". Good blow of air, TBIM. No GTS throughout. 60" ISIP 4845, 30" 2nd flow 515, 60" 2nd SIP 3946, 30" FFP 665, 120" FSIP 3989. Max. temp. 174°. Recovered 1350' salt water, cl 59,300 ppm, no show oil or gas. Rec. 1780 cc SW from sampler.

BST #4 10,288-10,332' bottom part of Lower Morrow. HP in & out 4732 psi. Rec'd 30" GCM. MFE sampler 7400 psi & contained only gas, no fluid. Meter did not work and could not measure gas volume. 10" preflow, GTS in 4", MTS in 7". Surface press. 1000 psi. 1" bottom and top chokes. 60" ISIP 4239 psi. T.O. 30". IFF 3253 psi, FFP 3676 psi. Surface press. 1300 psi. Calc. flow rate 33 MCVPD. 120" FSIP 4239 psi. BHT 170°.

BST #5 10,840-958' Devonian, T.O. 10" w/VWB, MTS. I&FFP 94 psi, 120" FSIP 426 psi. Rec'd 30' drilling mud, no gas or oil. I&FHP 5209 psi. MFE sampler, no pressure, no gas, no oil, just mud.

BST #6 10,836-11,026' Devonian, 10" preflow w/weak to fair blow, MTS. 65" SIP 4530 psi. T.O. 60" w/fair blow, MTS. 125" SIP 4530 psi. T.O. 90" w/VW to fair blow throughout, MTS. 180" SIP 4530 psi. FFP 574 psi to 3620 psi. IHP 5341 psi, FHP 5326 psi. Rec'd 1598' drilling mud & 6568' sulphur water, 900 ppm chl. Rec. .7 @ 30". MFE sampler rec'd no gas or oil, 2420 cc H₂O, no press. BHT 190°.

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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

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