

Drill Stem Tests

Yates Petroleum Corporation
Lechuguilla Canyon Unit #1 - Unit P
Section 5-24S-24E, Eddy County, New Mexico

DST #1 - 2025-2200'. (Delaware Sand) TO 15", SI 60", OP 15", SI 30". OP tool w/very weak blow, dead in 10 seconds, by-passed tool, reop w/very weak blow, dead in 10 seconds. Reop w/very weak blow.
Recovered: 90' of drilling fluid slightly oily. Sampler: - 0#, zero gas, 900 cc liquid. Pressures: - HP 1020-1020; IFP 70-92; ISIP 811; FFP 92-105; FSIP 732. BHT 90 deg.

DST #2 - 2186-2462' - TO 15", SI 60", OP 15", SI 30". Op w/strong blow, 6# on 1/2" choke in 3". Dead in 15". Recovered: - 1810' of fresh water. Sampler: 50#, 2250 cc drilling fluid, no oil or gas. Pressures: HP 939-918; IFP 826-873; ISIP 873; FFP 873-873; FSIP 873.

DST #3 - 8562-8784' - TO 30", SI 90", TO 60", SI 180". Op w/fair blow, increasing to strong blow, reop w/strong blow. Op on 16/64" choke. GTS - TSTM. Recovered: - 160' mud. Sampler: - 200 psi, 2.0 cfg, no fluid. BHT 152 deg. Pressures: HP 4077-4077; IFP 162-162; ISIP 739; FFP 162-138; FSIP 1291.

DST #4 - 9720-10225' (Morrow) - TO 30", SI 90", OP 180", SI 360". OP w/weak blow, increasing to strong blow (off bottom of bucket in 30") Reopened w/strong blow. GTS in 80" - TSTM. Recovered: - 185' GCM. Sampler: - 0#, .237 cfg, 0 fluid. BHT 152 deg. Pressures: HP 4734 initial - no reading on final. IFP 86-86; ISIP 513, FFP 86-86; ISIP 3223.

DST #5 (Straddle Packer) 6300-6370 (Bone Springs). TO 5", SI 60", OP 30", SI 60". TO w/very weak blow, dead in 7". Reopened and dead. Recovered: - 5' mud. Pressures: - HP 2971-2971; IFP 21-21; ISIP 43; FFP 21-21; FSIP 21.

Plugged back to 3000' and Straddle Tested 2310-2346' - Swabbed well down and treated w/1000 gallons of 15% DS-30 Acid. Small show of gas and formation water, no oil after swabbing.

Reset packer at 2275-2316'. Swabbed dry. Acidized w/1000 gallons of 15% DS-30. Swabbed. Swabbed back sulfur water.