

Drill Stem Tests

DST #1 5510-5550' - TO 15", SI 75", OP 60", SI 2 hrs. Op w/fair blo, increasing slightly, reopened w/good blo, continued throughout. No GTS. Had 200 units gas kick.

Recovery - 5 gal of DM. BHS: 16# - no free gas, no oil. 2800 cc DM w/gas odor. Pit chlorides 1000 ppm, Res. 5.0 at 75 deg. BHT 92 deg. Pressures: - HP 2682-2682; FP 16-16; SIP 666-1246.

DST #2 6110-6172' (Wolfcamp) - TO 15", SI 60", OP 90", SI 3 hrs. TO w/weak blow, increased to strong blow. GTS in 11", TSTM. during first period. Reopened w/good blow. GTS in 21" - Rate, 32 MCF; 60" 46 MCF; 90" 53 MCF. Recovered: 170' GCM, 1200 ppm Cl; pit 1200 PPM Cl. Sampler: 1.8 cu. ft. gas, 1900 cc DM. Pressures: HP 3118-3118; FP 75-165; ISIP 1939 inc.; FSIP 2015 inc. BHT 131 deg.

DST #3 6205-6330' - TO 15", SI 60", OP 60", SI 120". TO w/weak blow of air, inc. to strong blow. GTS in 7", TSTM on 1" choke. Reopened w/strong blow of gas. 225 MCF/D on $\frac{1}{2}$ " choke. Decreased to 40 MCF/D on $\frac{1}{4}$ " choke. Stabilized at 40 MCF/D. Recovery: - 630' of HGCDM, 10000 ppm Cl. Pit chloride 1000 PPM. Sampler: - 225#, .130 cu. ft og gas. Partially plugged. 600 cc DM heavy gas cut. Pressures: - HP 3175-3155; PF 237-256; FP 256-296; ISIP 2363; FSIP 2324. BHT 95 deg.

DST #4 8310-8700' Morrow - TO 15", SI 60", OP 60", SI 120". TO w/weak blow, increased to strong blow in 4". Strong blow throughout 60" FF. No gas or fluid to surface. Pit chlorides 1100 ppm. Recovery: - 175' WCDM. Sampler: - 50# psi, .2 cu. ft. gas, 1800 cc DM. Pressures: - HP 3946-3929; IF 235-235; FF 235-235; ISIP 841; FSIP 1277.

DST #5 8825-8995 - TO 20", SI 60", OP 75", SI 150". Op w/weak blow, increased to strong blow. GTS in 29". Reopened w/50# on $\frac{1}{4}$ " choke in 3" stabilized at 110# w/162 MCF/D. Recovery: 690' of slightly GCM. BHS - 350#, 1 cu. ft. gas, trace of mud. Pressures: - 1st FP 155-265/60", 2nd FP 265-375/75"; ISIP 2493; FSIP 3648 - building.

DST #6 9015-9148 - TO 20", SI 60", TO 60", SI 120". OP w/weak blo. increasing to fair blow. Reopened w/strong blo, GTS 10", 32" on $\frac{1}{4}$ " choke at 69 MCF/D, decreasing to 3 $\frac{1}{2}$ psi in 40" 25 MCF/D. Recovered - 625' of drilling mud, 0.834 cu. ft. gas, 2100 cc mud. Pressures: - IHP 4227, IFP 154-353, ISIP 1735, increasing. BHT 148 deg. FHP 4227; FFP 176-220, FSIP 1940 increasing.

DST #7 7571-7640' - Straddle Packer Test. TO 20", SI 60", TO 60", SI 120". TO w/weak blow increasing to strong blow. Reopened tool w/strong blow, decreasing to weak blow. Res. 405' DM w/sulfur odor. Sampler: 100#, 1.035 cu. ft sour gas. Press: IHP 3529-3529; IFP 109-153; FFP 175-190; ISIP 1028 FSIP 1879. Tight formation.