

—GREAT WESTERN DRILLING COMPANY —  
LEASE CLEVELAND - FEDERAL NO. 1-Y  
DRILL-STEM TEST SUMMARY

- DST No. 1 5032' - 5130'. Wolfcamp. Open 10 minutes, shut-in 1 hour, open 45 minutes, shut-in 2 hours. Had weak blow on preflow period and on regular flow period. Recovered 50' of drilling water. F.P. 32-32#. 1 hour I.S.I.P. 64#, F.P. 32-32#, 2 hour F.S.I.P. 138#, H.P. 2183-2183#. Sample chamber recovery, 2100 cc drilling water, pressure 100#.
- DST No. 2 6424' - 6480'. Wolfcamp. Opened tool for 30 minute preflow, had GTS in 8 minutes at a rate of 294 MCFPD. Shut-in for 1 hour, open 1 hour, S.I. for 2 hours. Recovered 778' of GCDW. F.P. 272-461#, 1 hour I.S.I.P. 1889#, F.P. 356-524#, 2 hour F.S.I.P. 1636#, H.P. 2824-2824#. Sample chamber recovery was 2.64 CFG + 600 cc drilling water.
- DST No. 3 Failed.
- DST No. 4 Failed.
- DST No. 5 6677' - 6705'. Wolfcamp. Opened tool for 30 minute preflow, GTS in 15 minutes. S.I. for 1 hour, opened for 3 hours. Maximum flow rate 331 MCFPD. S.I. 3 hours. Recovered 10' of condensate + 50' GCM + 310' G & WCM + 30' GCW. F.P. 31-115#, 1 hour I.S.I.P. 2867#, F.P. 73-356#, 3 hours F.S.I.P. 2813#, H.P. 3059-3059#. Sample chamber recovery was 150 cc water + 300 cc condensate + 4½ CFG @ 450#.
- DST No. 6 6908' - 7005'. Wolfcamp. Open 15 minutes w/weak blow, S.I. 1 hour, reopened for 40 minutes. Recovered 100' of drilling mud.
- DST No. 7 7034'-7052'. Wolfcamp. Open 30 minutes, GTS in 22 minutes at a rate of 58.8 MCFPD. S.I. for 1 hour, open for 2 hours, S.I. for 3 hours. Maximum rate of 238.1 MCFPD at end of 2 hours flow period. Recovered 70' of condensate + 210' of condensate and GCDM. H.P. 3108-3129#, F.P. 42#, 1 hour I.S.I.P. 2831#, F.P. 63-264#, 3 hour F.S.I.P. 2672#. Sample chamber recovery was 1.8 CFG + 500 cc of condensate @ 250#.
- DST No. 8 8425' - 8505' Strawn. Recovered 90' of drilling mud.
- DST No. 9 8935' - 9025' Morrow. Recovered 40' of drilling mud.
- DST No. 10 9039' - 9132' Morrow. Had GTS in 6 minutes on 30 minute preflow period. Made 2,581 MCFPD on 1/4" choke w/1850# at end of preflow period. Opened tool for 3 hours, maximum volume was 3,035 MCFPD on 1/4" choke w/2050#. Recovered 500' of gas and condensate cut mud. Sample chamber recovery was 13.4 CFG @ 2600#. F.P. 885-2451#, 1 hour I.S.I.P. 3449#, F.P. 1150-2739#, 3 hour F.S.I.P. 3449#, H.P. 4382-4382#.
- DST No. 11 9143' - 9230' Morrow. Open 1 hour, S.I. 1½ hour, open 2 hours, S.I. 3 hours. GTS in 50 minutes on preflow period. Flowed at a rate of 52.9 MCFPD on regular flow period. Recovered 120' GCDM. Sample chamber recovery was 0.3 CFG @ 50#, no fluid. F.P. 186-116#, 1½ hours I.S.I.P. 2269#, F.P. 93-46#, F.S.I.P. failed, H.P. 4478-4478#.