

Cities Service Oil Company #1 Cawley A

DST #1 3299-3435 (Delaware) 3/4" BC, 1/4" TC tool open for 15 mins. preflow w/good continuous blow. SI for 90 mins. ISIP. Tool open 1 hr. Gas to surf. in 45 mins. TSTM. Rec. 30' oil + 900' black brackish sul. wtr. Grav. of oil 37.8 deg. IHP 1613#, IFP 314#, FFP 356#, 90 min. ISIP 1592#, 90 min. FSIP 1213#, FHP 1550#, BHT 90 deg. F.

DST #2 10,216-10,320 (Strawn Lime) 3/4" BC, 1/4" TC, 800' WB tool open for 15 min. Preflow w/fair blow increasing to good blow in 15 min. SI for 90 min. ISIP. Tool open 2 hrs. Gas to surf. in 90 min. @ 35 MCF decreasing to TSTM in 30 min. Rev. out 800' WB + 4000 gas cut mud. IMCP 5480#, 90 min. ISIP 3572#, 2 hr. IFP 790#, 2 hr. FFP 1046#, 2 hr. FSIP 4484#, FMCP 5437, BHT 180 deg. F.

DST #3 11,194-11,291 (Morrow Sand) 3/4" BC, 1500' WB tool open for 14 min. preflow w/good-strong blow, WB to surf. in 6 min. Gas to surf. in 8 min. FP 250# on 3/4" choke @ end of preflow. SI for 90 min. ISIP. Tool open 90 min. After 3 min. FTP 200# on 1/2" choke. Cleaned to pits 45 min. Switched thru separator for 10 min. @ 4.2 MMCFD, FTP 550#, 1/2" choke. Cleaned to pits for 20 min. Switched thru separator for last 15 min. @ 4.8 MMCFD, FTP 800#, 1/2" choke. SI 90 min. Opened circl. sub and reversed out w/150 bbls. mud until well stable. Press. recorded in top chamber @ 11,177'. IMCP 5852# preflow FP 1213-1426#, 90 min. ISIP 4797#, FP 936-1553# 90 min. FSIP 4712#, FMCP 5789#, BHT 195 deg. F. Rec'd. in test chamber 4.5 CF gas @ 3100# no fluid.

DST #4 11,330-11,387 (Morrow Sand) 3/4" BC, 1500' WB tool open for 15 min. preflow w/very weak blow for 5 min. SI for 90 min. ISIP. Tool open 1 hr. Rec. 1500' WB + 1474' sli. gas cut mud. IMCP 5852#-6000#, preflow FP 787#-877#, 90 min. ISIP 1532#-1617#, 60 min. IFP 851#-921#, 60 min. FFP 936#-1013#, 90 min. FSIP 1575#-1639#, FMCP 5852#-6000#, BHT 174 deg. F. Top gauge @ 11,326 - bottom gauge @ 11,383. Rec'd. in sample chamber 1.6 CF gas, 2200 cc drlg. mud @ 651#.

DST #5 11,362-11,506 (Morrow Sand) 3/4" BC, 1600' WB tool open for 15 min. preflow w/strong blow in 1-1/2 min. - 10# in 15 min. Attempted to SI tool for ISIP. Tool would not close. Gas to surf. in 25 min. w/110# on blow hose. Picked up tool to neutral position. Closed tool for 120 min. ISIP. Tool open for 60 min. Opened surf. valve - had 500#, declined to 22# in 10 min. on 1/2" choke to weak blow in 20 min. then increased to 1/2# in 30 min. and 3/4# in 60 min. Rotated tool to determine if tool was open. Surf. press. increased to 100# on 3/4" choke in 30 min. w/WB to surf. in 30 min. Flowed WB & gas to pits for 40 min. @ 200# on 1/2" choke. Flowed thru separator 20 min. @ 1523 MMCFPD w/240# on 3/4" choke. Tool open for 90 min. on 2nd flow period. Opened circulating sub and reversed out 1824' wtr. and gas cut drlg. mud. IMCP 5979#-6082#, preflow FP 979#-1056#, 90 min. ISIP tool did close, 90 min. IFP 1234#-1298#, 90 min. FFP 1064#-1083#, 150 min. FSIP 4585#-4674#, FMCP 5894#-5900#, BHT 190 deg. F. Top gauge @ 11,355' - bott. gauge @ 11,502'. Rec'd. in sample chamber 8.123 CF gas, no fluid @ 2300#.