

UNION OIL COMPANY OF CALIFORNIA

DRILL STEM TESTS - INAS TATUM NO. 1

D.S.T. No. 1 (Wolfcamp) from 10,500' to 10,550'. Opened tool for 10 minute initial pre-flow period with a very weak bubbling in bucket for 1/2 minute and then died. Shut tool in for 1-1/2 hours, opened tool for one hour flow period with steady weak blow immediately, decreasing to a very weak blow at end of flow period. Shut in for two hours. Released packer and pulled out of hole. Recovered 420' of gas in drill pipe and 10' of gas cut drilling mud, with very slight show of green oil on top of mud recovered. IHP 4757 psi, IPF (10) 15 psi, ISIP (90) 93 psi, IFP 15 psi, FFP (60) 31 psi, FSIP (120) 511 psi, FHP 4757 psi, BHT 152°.

D.S.T. No. 2 (Cisco) from 10,890' to 10,965'. Opened tool for initial pre-flow and packer failed. No test.

D.S.T. No. 3 (Cisco) from 10,808' to 10,965'. Opened tool for 15 minute initial pre-flow with weak blow increasing to fair blow in bucket. Shut in for 90 minutes. Opened tool for flow period with fair blow, increasing to strong blow in bucket with gas to surface in 17 minutes. Turned well to pit on 1" choke with gas TSTM, with a two to three foot high flare at end of 2" line, with gas blow decreasing slightly at end of one hour flow period. No fluid to surface. Shut tool in for two hours. Pulled packers loose, and tripped jars one time. Pulled out and recovered 10,500' of gas in drill pipe, 210' heavy oil and gas cut drilling mud, and 240' heavy gas, slightly oil cut, drilling mud. IHP 5052 psi, IFP (15) 234 psi, ISIP (90) 2605 psi, IFP 234 psi, FFP 250 psi, FSIP (120) 2268 psi, FHP 5036 psi, BHT 156°.

D.S.T. No. 4 (Cisco) from 11,255' to 11,166'. Opened tool for 10 minute initial pre-flow with no blow at surface for six minutes, then increasing to strong blow in bucket at surface for four minutes. Shut in for one hour, had gas to surface 16 minutes after shutting tool in. Opened tool to pit with good blow decreasing to fair blow at end of 1-1/2 hour flow period, with gas to surface immediately, flowing at 279 MCF/D rate, decreasing to 125 MCF/D rate. No fluid to surface. Shut in two hours. Release packers, pulled out of hole without tripping jars and recovered 658' (7 barrels) of 42.7° gravity oil, with no water and 10,500' of gas in drill pipe. IHP 5180 psi, IPF (10) 128 psi, ISIP (70) 3623 psi, IFP 193 psi, FFP 225 psi, FSIP (120) 2552 psi, FHP 5181 psi, BHT 147°.