

Attachment to C-105

Shell Oil Company
Bootleg Ridge Unit 1
C-36-22-32
Lea County, New Mexico

- DST #1: 8452'-8582' (130' Devonian). Tool open 2 hours 36 minutes thru 5/8" BC, 1/4" TC, 4 1/2" DP. Opened with weak blow, increased to strong. Gas to Surface 1 hour. Flowed at rate 10 MCFFD thru 1/4" choke. Recovered 100' (1.4 barrels) heavily oil and gas cut mud (50% oil - 40 degrees API) + 680' (5.4 barrels) oil and gas cut mud. BHT 118 degrees F. 60 minutes ISIBHP 3103 psi. FBHP 109-282 psi. 120 minutes FSIBHP 2878 psi. BHP 3925-3925 psi. Recovered mud titrated 40,000 ppm Cl⁻. Pit mud titrated 7000 ppm Cl⁻. Conclusive Test (Arrow).
- DST #2: 15,950'-16,270' (320' Mississippian and Silurian). Tool open 70 minutes. Opened with strong blow. No gas to surface. Used 3000' Nitrogen blanket pressured to 500 psi at surface. Packers failed 2 hours 10 minutes after start of test. Recovered 370' (2.7 barrels) very slightly gas cut mud + 180' (1.3 barrels) salt water cut mud + 1380' (10.2 barrels) salt water + 2170' (15 barrels) mud. ISIBHP failed. FBHP 988'-1611 psi. 60 minutes FSIBHP 6890 psi. BHP in/out 8448/8370 psi. Recovered water titrated 53,000 ppm Cl⁻. Pit mud titrated 2300 ppm Cl⁻. BHT 228 degrees F. Conclusive test (Johnston)