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O. C. C.

Attachment for Federal Form 9-330

Shell Oil Company ~~ARTESIA~~ OFFICE
Henshaw Deep Unit # 1
NE/4 NW/4 of Sec. 24,
T-16-S, R-30-E
Eddy County, New Mexico

- DST # 1: 1715' - 1835' (120' Seven Rivers). Tool open 1 hour. Opened w/weak blow dying after 1 hour. Recovered 180' (1.3 bbls.) drilling mud w/no show. Pit mud titrated 170,000 ppm Cl⁻. Recovery mud titrated 193,000 ppm Cl⁻. 30 minutes ISIBHP 440 psi. FBHP 60 - 100 psi. 30 minutes FSIBHP 220 psi. HMH 2100 psi. Conclusive Test. (Cook)
- DST # 2: 3080' - 3500' (420' San Andres). Tool open 2 hours. Opened w/strong blow. GTS 55 minutes. TSTM. Recovery 630' (3.4 bbls.) gas cut drilling mud. 30 minutes ISIBHP 600 psi (increasing). FBHP 320 - 420 psi. 60 minutes FSIBHP 1040 psi (increasing). HMH 1940 - 1940 psi. Recovery mud titrated 220,000 ppm Cl⁻. Pit mud titrated 250,000 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 3: 3490' - 3680' (190' San Andres). Tool open 1 hour through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/weak blow dying in 5 minutes. Recovered 5' drilling mud w/no show. Pit mud titrated 8000 ppm Cl⁻. Recovery mud titrated 9500 ppm Cl⁻. 30 minutes ISIBHP 140 psi. FBHP 60 - 60 psi. 30 minutes FSIBHP 120 psi. HMH 1490 psi. Maximum BHT 105 deg. F. Conclusive Test. (Cook)
- DST # 4: 5164' - 5224' (60' Yaso). Tool open 2 hours through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/fair blow continuing throughout test. NGTS. Recovered 15' drilling mud, no show. 30 minutes ISIBHP 180 psi (increasing). FBHP 50 - 50 psi. 60 minutes FSIBHP 240 psi (increasing). HMH 2540 - 2540 psi. Maximum BHT 122 deg. F. Pit mud titrated 7900 ppm Cl⁻. Recovery mud titrated 8000 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 5: 7772' - 7863' (91' Wolfcamp). Tool open 1 hour 15 minutes through 5/8" BC, 1/4" TC, 4 1/2" DS. Opened w/weak blow dying after 75 minutes. Recovered 60' (.44 bbl.) drilling mud w/no show. Obtained no pressure readings due to clock failure and O-Ring leak. Pit mud and recovery mud titrated 2000 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 6: 8765' - 8881' (116' Pennsylvanian limestone). Tool open 4 hours through 5/8" BC, 1" TC, 4 1/2" DP. Opened w/strong air blow. GTS 16 minutes. Flowed gas @ 69 MCF/D. No oil to surface. Recovered 30' (.25 bbl.) gas cut mud + 30' (.25 bbl.) gas & oil cut mud + 1440' (20 bbls.) oil (Gr. 35 deg. API) + 345' (2.5 bbls.) heavily oil and gas cut mud + 345' (2.5 bbls.) oil & mud cut sulfur water. 60 minutes ISIP failed. FBHP 220 - 680 psi. 120 minutes FSIP 3220 psi (still building). HMH 4400 psi. Maximum BHT 162 deg. F. Recovery water titrated 215,000 ppm Cl⁻. Pit mud titrated 2500 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 7: 8881' - 9040' (159' Pennsylvanian). Tool open 1 hour through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/strong blow decreasing to fair. NGTS. Recovered 150' (1 bbl.) slightly gas cut drilling mud. 30 minutes ISIBHP 620 psi (increasing). FBHP 100 - 100 psi. 30 minutes FSIBHP 420 psi (increasing). HMH 4380 psi. Maximum BHT 170 deg. F. Recovery mud titrated 6000 ppm Cl⁻. Pit mud titrated 1800 ppm Cl⁻. Conclusive Test. (Cook)