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Shell - Henshaw Deep Unit # 1
Attachment for Federal Form 9-330

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ARTESIA, OFFICE

- DST # 8: 11,725' - 11,777' (52' Devonian Dolomite). Tool open 2 hours through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/very weak blow increasing to weak. NGTS. Recovered 180' (2 bbls.) drilling mud, no show + 360' (2 bbls.) sulfur water + 10' (1/4 bbl.) heavily gas and water cut drilling mud. 45 minutes ISIBHP 4902 psi. FBHP 117 - 279 psi. 60 minutes FSIBHP 4833 psi. HMH 5860 - 5837 psi. Maximum BHT 200 deg. F. Conclusive Test. (Cook)
- DST # 9: 11,777' - 11,828' (51' Devonian). Tool open 2 hours through 5/8" BC, 1" & 1/2" TC, 4 1/2" DS. Opened w/strong blow dying in 1 hour, changed to 1/2" choke and weak blow resumed for 38 minutes, then died. Recovered 1890' (27 bbls.) slightly gas and water cut drilling mud + 9140' (127 bbls.) slightly gas cut sulfur water (black). 60 minutes ISIBHP 5580 psi. FBHP 3720 - 4930 psi. 60 minutes FSIBHP 5000 psi. HMH 5650 - 5640 psi. Pit mud titrated 1000 ppm Cl⁻. Recovery water titrated 20,000 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 10: 11,682' - 11,718' (36' Devonian). Straddle Test. Tool open 18 minutes through 5/8" BC, 1/2" TC, 4 1/2" DS. GTS 1 minute. Condensate to surface 5 minutes. Maximum surface pressure 2200 psi (increasing). Estimated maximum rate 10 million CF/D. Closed tool and after surface pressure bled back to 1300 psi turned through separator, gas rate 5.6 million CF/D. Recovered 10 bbls. 52 deg. gravity condensate in test tank. Recovered 870' (10.5 bbls.) condensate + 60' (1/2 bbl.) oil cut sulfur water in drill pipe. Recovery water titrated 16,500 ppm Cl⁻. Pit mud titrated 1800 ppm Cl⁻. 60 minutes ISIBHP 4800 psi. FBHP 3630 - 4290 psi (increasing). 128 minutes FSIBHP 4780 psi. HMH 5580 psi. Conclusive Test. (Cook)
- DST # 11: 12,741' - 12,784' (43' Ellenburger). Tool open 1 hour through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/strong blow and died in 40 minutes. NGTS. Recovered 20' gas cut drilling mud + 1 pint slight mud cut oil. 45 minutes ISIBHP 720 psi. FBHP 47 - 47 psi. 60 minutes FSIBHP 70 psi. HMH 6327 psi. Recovery mud titrated 1400 ppm Cl⁻. Pit mud titrated 1800 ppm Cl⁻. Conclusive Test. (Cook)
- DST # 12: 12,784' - 12,861' (77' Ellenburger). Tool open 15 minutes through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/no blow. After 15 minutes by-passed packers, had blow, but unable to reset packer. Recovered 660' (6 bbls.) drilling mud w/no show. 60 minutes ISIBHP 1140 psi. FBHP 180 - 600 psi. No FSIBHP. HMH 6380 - 6360 psi. Conclusive Test. (Cook)
- DST # 13: 12,861' - 12,951' (90' Ellenburger). Tool open 1/2 hour through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/no blow. Recovered 20' drilling mud w/no show. 60 minutes ISIBHP 1734 psi. FBHP 93 - 93 psi. 60 minutes FSIBHP 1068 psi. HMH 6491 - 6491 psi. Conclusive Test. (Cook)