


Shell Oil Company
State KS # 1
NE/4 SE/4, Section 27-15S-37E
Lea County, New Mexico

- DST # 1: 10,586' - 10,904' (318' Wolfcamp). Tool open 30 minutes thru 5/8" BC, 1/2" TC, 4 1/2" DP. w/good and decreasing to fair blow in 25 minutes. NGTS. Recovered 900' (13 bbls.) mud cut sulfur water + 7200' (90 bbls.) sulfur water. 45 minutes ISIP 4238 psi. FBHP 2773 - 4051 psi. 60 minutes FSIBHP 4238 psi. HMP 5141 - 5141 psi. Recovered sulfur water titrated 90,000 ppm Cl⁻. BHT 150 deg. F. Conclusive Test. (HOWCO)
- DST # 2: 12,938' - 12,988' (50' Mississippian). Tool open 2 hours thru 5/8" BC, 1/2" TC, 4 1/2" DP w/fair blow. GTS 18 minutes at approximately 300 MCFPD. Recovered 110' (0.6 bbl.) gas cut mud + 90' (0.4 bbl.) gas cut and heavily distillate cut mud. 45 minutes ISIBHP 5806 psi. FBHP 87 - 73 psi. 60 minutes FSIBHP 6523 psi. HMP 6818 - 6818 psi. BHT 170 deg. F. Conclusive Test. (HOWCO)
- DST # 3: 14,007' - 14,047' (40' Silurian). Used 3000' Nitrogen blanket w/1000# back pressure valve. Tool open 4 hours 35 minutes thru 1" BC, 1" TC, 4 1/2" DP. Fair blow throughout. NGTS. Recovered 2400' (34 bbls.) oil + 100' (0.5 bbl.) mud and slightly gas cut sulfur water. 60 minutes ISIBHP 5242 psi. FBHP 1213 - 1449 psi. 120 minutes FSIBHP 5084 psi. HMP 7227 - 7307 psi. Oil Gravity 51.6 deg. API. Recovered water titrated 24,000 ppm Cl⁻. Pit mud titrated 1000 ppm Cl⁻. Conclusive Test. (Johnston)
- DST # 4: 14,051' - 14,077' (26' Silurian). Tool open 3 hours thru 5/8" BC, 1" TC, 4 1/2" DP. Opened w/fair blow and died in 2 hours 55 minutes. NGTS. Used 3000' Nitrogen w/500# back pressure valve. Recovered 300' (4.2 bbls.) gas and water cut mud + 360' (5.1 bbls.) mud cut water + 3620' (51.7 bbls.) salty sulfur water. 60 minutes ISIBHP - failed. FBHP 793 - 1962 psi. 120 minutes FSIBHP - failed. HMP 7162 psi. Recovered water titrated 25,500 ppm Cl⁻. Pit mud titrated 750 ppm Cl⁻. Conclusive Test. (Johnston)


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District Exploitation Engineer

September 26, 1963