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ATTACHMENT FOR USGS FORM 9-330

SHELL OIL COMPANY  
HENSHAW DEEP UNIT # 10  
NE/4 NE/4 of Section 14,  
T-16-S, R-30-E, NMPM  
Survey, Eddy County, New Mexico

O. C. C.  
ARTESIA, OFFICE

37. Summary of Porous Zones:

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Description, Contents, etc.</u>
Wolfcamp	8650'	8682'	Cored 32': 28' Limestone, dense w/no shows; 4' Limestone w/scattered poor porosity w/good odor & poor stain.
Wolfcamp	8682'	8716'	Cored 35': 23' Limestone, dense w/no shows; 12' Limestone w/scattered poor porosity w/fair odor and stain.
Wolfcamp	8717'	8731'	Cored 14': 14' Limestone dense w/no shows.
Wolfcamp	8731'	8759'	Cored 28': 28' Limestone dense w/no shows.
Wolfcamp	8759'	8796'	Cored 37': 29' Limestone, dense w/no shows; 2' Limestone w/good porosity bleeding oil & water; 1' Limestone w/poor scattered porosity w/no shows; 2 1/2' Limestone w/scattered porosity w/no shows but gasy odor.
Wolfcamp	8796'	8826'	Cored 30': 15' Limestone, dense w/no shows; 13' Limestone w/fair porosity w/bleeding oil & water.
Wolfcamp	8742'	8826'	DST #1: (84' Wolfcamp). Tool open 1 hour & 25 minutes thru 5/8" BC, 1" TC, 3 1/2" DP. Opened w/strong blow. GTS 14 minutes, decreased to weak blow at end of test. FSP 5 psi on 1" choke. Recovered 1260' (12 bbls.) gas cut sulfur water w/slight oil film. 64 minutes ISIBHP 2882 psi. FBHP 150 - 285 psi. 114 minutes FSIBHP 451 psi. BHT 121 deg. F. Recovered water titrated 7000 ppm Cl <sup>-</sup> . Pit water titrated 5000 ppm Cl <sup>-</sup> . <u>Conclusive Test.</u> (Foster)
Wolfcamp	8900'	9068'	DST # 2: (168' Wolfcamp). Tool open 1 hour thru 5/8" BC, 1" TC, 3 1/2" DP. Opened w/strong sir blow decreasing to weak in 14 minutes. NGTS. Recovered 7976' (56 bbls.) sulfur water w/no shows. 60 minutes ISIBHP 3503 psi. FBHP 2667 - 3503 psi. 105 minutes FSIBHP 3503 psi. HMH 4412 - 4286 psi. Max. temp. 125 deg. F. Recovered water titrated 6500 ppm Cl <sup>-</sup> . Pit mud titrated 5000 ppm Cl <sup>-</sup> . <u>Conclusive Test.</u> (Foster)
Wolfcamp	9412'	9444'	DST # 3: (32' Wolfcamp). Tool open 1 1/2 hours thru 5/8" BC, 1" TC, 3 1/2" DP. Opened w/fair blow immediately then increased to strong, remaining throughout test. NGTS. Attempted to close tool for final shut in. Turned DP 10 rounds of needed 16 rounds but could not rotate 6 rounds. Unseated packer. Recovered 6720' (48 bbls.) salt water. 60 minutes ISIBHP 3597 psi. FBHP 993 - 3037 psi. FSIP failed. HMP 4633 - 4601 psi. Temperature 132 deg. F. <u>Conclusive Test.</u> (Foster)

  
V. L. King  
Acting District Exploitation Engineer