SHELL OIL COMPANY RECORD # 2 SEC. 35-19S-35E NMPM SURVEY, LEA COUNTY, NEW MEXICO

- DST #1: 5307' 5369' (62' San Andres). Tool open 2 hours 5 minutes through 5/8" BC, 1" TC, 4 1/2" DS. GTS 1 hour. TSTM.

 Recovered 335' (2.45 bbls.) oil, 34.8 deg. API, 180' (1.3 bbls.) mud cut oil & 60' (0.44 bbls.) slightly oil cut mud.

 45 minutes ISIBHP 2010 psi. FBHP 60 175 psi. 1 hour

 FSIBHP 1925 psi. HMH 2300 psi. Max. BHT 95 deg. F.

 Conclusive Test. (Johnston)
- DST # 2: 5369' 5419' (50' San Andres). Tool open 2 hours through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/weak air blow continuing throughout test. NGTS. Recovered 300' (2.2 bbls.) oil cut mud. Recovery mud & pit mud both titrated 2600 ppmCl. 45 minutes ISIEHP 2250 psi. FBHP 15 115 psi. 1 hour FSIEHP 2250 psi. HMH 2320 2303 psi. EHT 104 deg. F. Conclusive Test. (Johnston)
- DST # 3: 7734' 7803' (69' Delaware Mountain). Tool open 2 hours through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/fair air blow continuing throughout test. NGTS. Recovered 2700' (36.4 bbls.) mud, 230' (1.7 bbls.) heavily gas cut mud, & 100' (0.73 bbls.) heavily gas & slightly oil cut mud. Recovery mud titrated 11,000 ppmCl. Pit mud titrated 6000 ppmCl. 45 minutes ISIEHP 2400 psi. FBHP 600 1100 psi. 1 hour FSIEHP 2060 psi. HMH 3720 psi. Inconclusive Test. (Cook)
- DST # 4:

 9500' 9600' (100' Bone Spring). Tool open 1 hour, 45
 minutes through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/no blow.

 Bypassed packers, no blow. Dropped second bar tool. Opened
 w/weak blow & died in 1 hour 15 minutes. Recovered 810'
 (9.43 bbls.) drilling mud w/no show. Recovery mud titrated
 4400 ppmCl. Pit mud titrated 3800 ppmCl. 1 hour ISIBHP
 failed. FBHP 295 635 psi. 1 hour FSIBHP 2545 psi. HMH
 4375 4345 psi. BHT 138 deg.
 Conclusive Text. (Johnston)
- DST #5: 10,622' 10,704' (82' Bone Spring). Tool open 1 hour, 45 minutes through 5/8" BC, 1" TC, 4 1/2" DS. Opened w/good blow & continued throughout test. Reversed out estimated 10,000' gas. Recovered 120' heavily gas cut mud below TC valve. 15 minutes ISIBHP 2320 psi. FBHP 100 120 psi. 30 minutes FSIBHP 220 psi. HMH 4820 psi. Positive Test. (Cook)
- DST # 6:

 12,486' 12,720' (234' Pennsylvanian). Tool open 6 hours,
 45 minutes through 5/8" BC, 1" TC, 4 1/2" DS. Pressured drill
 pipe w/600 psi Nitrogen Elanket. First 15 minutes tool open
 w/surface shut in pressure, increased from 600 700 psi. Eled
 off Nitrogen. GTS 35 minutes. Flowed 1250 MCFPD decreasing to
 650 MCFPD after 2 hours. MTS 2 hours 20 minutes. OTS 3 hours
 20 minutes. Cleaned to pits 10 minutes, then turned through
 separator. Last 2 hours flowed 36 BO + 3 BM. Last hour flowed
 18 BO + 2 BM, final cut 1% mud. Flowed gas @ 900 MCFPD increasing
 to 1660 MCFPD during last 2 hours. Calculated GOR 3850. Gas
 gravity 0.765. Oil Gravity 41 deg. API. Reversed out 9 BO + 1 BW
 + 3 FM. Water titrated 25,000 ppmCl. Pit mud titrated 4000 ppmCl.
 Recovered 90' (0.4 bbls.) free oil below circulating sub. 1 hour
 20 minutes ISIBHP 6600 psi. FBHP 1640 1960 psi. Minimum FBHP
 1300 psi. 35 minutes FSIBHP 6320 psi. HMH 7260 7180 psi.
 Max. BHT 150 deg. F. Positive Test. (Cook)

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