

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE February 27, 1964

Operator El Paso Natural Gas Company		Lease Turner Hughes No. 14 (MV)	
Location 1783'N, 1090'E, Sec. 4, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5035	Tubing: Diameter 1.660	Set At: Feet 4814
Pay Zone: From 4866	To 4806	Total Depth: 7129	Shut In 2-10-64
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365		Baker Model D Packer set at 4850'.	
Shut-In Pressure, Casing, PSIG 978 (MV)	+ 12 = PSIA 990	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 982 (MV)	+ 12 = PSIA 994
Flowing Pressure: P PSIG 167	+ 12 = PSIA 179		Working Pressure: Pw PSIG 257	+ 12 = PSIA 269
Temperature: T = 66 °F	n = .75		Fpv (From Tables) 1.018	Gravity .695 Fg = .9292

Initial SIPT (DK) = 1980 psig

Final SIPT (DK) = 1990 psig

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(179)(.9943)(.9292)(1.018) = 2082 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{988,036}{915,675} \right)^n = (2082)(1.0790)^{.75} = (2082)(1.0587)$$

$$Aof = 2204 \text{ MCF/D}$$

NOTE: Well produced a heavy spray of distillate throughout the test.



TESTED BY D. Roberts & R. Headrick

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Checked by T. B. Grant

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