

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 20, 1966

Operator El Paso Natural Gas Company		Lease San Juan No. 10 (OWMO)	
Location 990'S, 990'W, Section 10, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5617	Tubing: Diameter 2.375	Set At: Feet 5476
Pay Zone: From 5374	To 5456	Total Depth: 5617	Shut In 4-12-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "I" Packer set at 3187'	
Shut-In Pressure, Casing, PSIG 568 (PC)	+ 12 = PSIA 580 (PC)	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 729	+ 12 = PSIA 741
Flowing Pressure: P PSIG 211	+ 12 = PSIA 223		Working Pressure: P _w PSIG Calc	+ 12 = PSIA 441
Temperature: T = 67 °F	n = .75		F _{pv} (From Tables) 1.025	Gravity .700
F _t = .9933				F _g = .9258

INITIAL SIPT (PC) = 569 PSIG

FINAL SIPT (PC) = 570 PSIG

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365) (223) (.9933) (.9258) (1.025) = 2599 \text{ MCF/D}$$

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

$$Aof = \left(\frac{549,081}{354,600} \right)^n = (2599) (1.5484)^{.75} = (2599) (1.3880) = (3607)$$

NOTE: Well made a light spray of water and oil throughout the test.

$$Aof = 3607 \text{ MCF/D}$$

TESTED BY Dan Robert
 CALCULATED BY Walter Cassida
 WITNESSED BY Herman E. McAnally

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