

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 10, 1965

Operator El Paso Natural Gas Company		Lease Florance No. 1 (OWWO)	
Location 990'N, 990'E, Section 24, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5198	Tubing: Diameter 2.375	Set At: Feet 5132
Pay Zone: From 4524	To 5174	Total Depth: 5198	Shut In 5-1-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 887 PSIG	+ 12 = PSIA 899	Days Shut-In 9	Shut-In Pressure, Tubing 885 PSIG	+ 12 = PSIA 897	
Flowing Pressure: P 313 PSIG	+ 12 = PSIA 325		Working Pressure: P _w 665 PSIG	+ 12 = PSIA 677	
Temperature: T = 89 °F	F _t = .9732	n = .75	F _{pv} (From Tables) 1.033	Gravity .710	F _g = .9193

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

$$Q = (12.365) (325) (.9732) (.9193) (1.033) = \underline{3,714} \text{ MCF/D}$$

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

$$Aof = \left(\frac{808,201}{349,872} \right)^n = (3,714) (2.3099)^{.75} = (3,714) (1.8737)$$

NOTE: Very heavy spray of distillate and water throughout the test.

$$Aof = \underline{6,959} \text{ MCF/D}$$

TESTED BY H. E. McAnallyCHECKED BY T. B. Grant
~~WITNESSED BY~~

Lewis D. Galloway
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