

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 13, 1965

Operator El Paso Natural Gas Company		Lease Case No. 6 (OWWO)	
Location 1165'N, 890'E, Section 5, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5378	Tubing: Diameter 2.375	Set At: Feet 5310
Pay Zone: From 4718	To 5340	Total Depth: 5378	Shut In 7-2-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing 808 PSIG	+ 12 = PSIA 820	Days Shut-In 11	Shut-In Pressure, Tubing 810 PSIG	+ 12 = PSIA 822	
Flowing Pressure: P 303 PSIG	+ 12 = PSIA 315		Working Pressure: P _w 672 PSIG	+ 12 = PSIA 684	
Temperature: T = 90 °F	F _t = .9723	n = .75	F _{pv} (From Tables) 1.028	Gravity .692	F _g = .9325

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (315) (.9723) (.9325) (1.028) = \underline{3,630} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{675,684}{207,828} \right)^n = (3.2511) (3,630)^{.75} = (2.4170) (3,630)$$

$$A_{of} = \underline{8,774} \text{ MCF/D}$$

NOTE: Light spray of water and
distillate throughout test.

TESTED BY Dan Roberts
 CHECKED BY H. E. McNally
~~EXPRESSED BY~~

Lewis D. Galloway
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