

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 8, 1966

Operator El Paso Natural Gas Company		Lease Barnes No. 3 (OWWO)	
Location 1542'N, 1165'E, Section 27, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5856	Tubing: Diameter 2.375	Set At: Feet 5809
Pay Zone: From 5062	To 5816	Total Depth: 5857 Co. 5825	Shut In 6-29-66
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, PSIG 850	+ 12 = PSIA 862	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 676	+ 12 = PSIA 688
Flowing Pressure: P PSIG 252	+ 12 = PSIA 264		Working Pressure: P _w PSIG 797	+ 12 = PSIA 809
Temperature: T = 79 °F F _t = .9822	n = .75		F _{pv} (From Tables) 1.025	Gravity .670 F _g = .9463

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

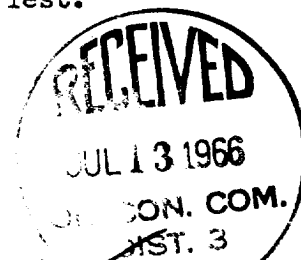
$$Q = (12.365) (264) (.9822) (.9463) (1.025) = \underline{3110} \text{ MCF/D}$$

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

$$Aof = \left(\frac{743,044}{88,563} \right)^n = (3110) (8.3900)^{.75} = (4.9297) (3110)$$

NOTE: Very light fog of distillate and H₂O throughout Test.

$$Aof = \underline{15,331} \text{ MCF/D}$$

TESTED BY Clarence R. WagnerWITNESSED BY Tom B. Grant

H. L. Kendrick
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