

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 15, 1958

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 13-A	
Location 1090N, 1550W; 8-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8"	Set At: Feet 5043	Tubing: Diameter 2"	Set At: Feet 5329
Pay Zone: From 5182	To 5332	Total Depth: 5395 c/o 5359	Shut-in 3/23/58
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" liner 4971 - 5394	
Shut-In Pressure, Casing, PSIG 1041	- 12 = PSIA 1053	Days Shut-In 53	Shut-In Pressure, Tubing PSIG 1041	- 12 = PSIA 1053	
Flowing Pressure: P PSIG 358	- 12 = PSIA 370		Working Pressure: P _w PSIG 825	- 12 = PSIA 837	
Temperature: T °F 66	n = .75		F _{pv} (From Tables) 1.044	Gravity .717	

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

$$Q = (12.365) (370) (.9943) (.9161) (1.044) = \underline{4,351} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1108809}{408240} \right)^n = (2.7160)^{.75} (4351) = (2.1140) (4351)$$

$$A_{of} = \underline{9,198} \text{ MCF/D}$$

TESTED BY S. V. Roberts and Frank Clark

WITNESSED BY _____

Lewis D. Galloway
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