

OPEN FLOW TEST DATA

DATE August 3, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 148	
Location 800'N, 800'W, Sec. 1, T-25-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 2739	Tubing: Diameter 2.375	Set At: Feet 6678
Pay Zone: From 6668	To 6713	Total Depth: 6739	Shut In 7-27-66
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 1897	+ 12 = PSIA 1909	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1903	+ 12 = PSIA 1915	
Flowing Pressure: P PSIG 88	+ 12 = PSIA 100		Working Pressure: P _w PSIG 503	+ 12 = PSIA 515	
Temperature: T = 81 °F	n = .750		Fpv (From Tables) 1.008	Gravity .670	Fg = .9463

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

$$Q = (12.365)(100)(.9804)(.9463)(1.008) = \underline{1156} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,667,225}{3,402,000} \right)^n = (1.0779)(1156)^{.75} = (1.0578)(1156)$$

$$Aof = \underline{1223} \text{ MCF/D}$$

TESTED BY Don NortonWITNESSED BY Hermon E. McAnally

Tom B. Grant
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