

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 30, 1965

Operator El Paso Natural Gas Company		Lease Indwell No. 23	
Location 9-10-N, 11-00-W, Sec. 19, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Antec	
Casing: Diameter 2.375	Set At: Feet 2935	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2302	To 2835	Total Depth: 2941	Shut In 11-28-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .750	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 141	+ 12 = PSIA 453	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P 165	+ 12 = PSIA 177		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA
Temperature: T = 58 °F	n = F = 1.0019		F _{pv} (From Tables) 1.016	Gravity .650 F _g = .9603

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365) (177) (1.0019) (.9603) (1.016) = \underline{2,141} \text{ MCF/D}$$

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

$$Aof = \left(\frac{205,200}{156,363} \right)^n = (2141) (1.3123)^{.85} = (2141) (1.2600)$$

$$Aof = \underline{2,698} \text{ MCF/D}$$

TESTED BY Don NortonWITNESSED BY L. D. Dawson

Louis D. Dawson

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