

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 29, 1960

Operator El Paso Natural Gas Company		Lease San Juan 30-6 No. 33	
Location 990'S, 1650'W, 8-30N-6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Elanco MV	
Casing: Diameter 2-1/2"	Set At: Feet 5667	Tubing: Diameter -No Tubing-	Set At: Feet -
Pay Zone: From 5472	To 5618	Total Depth: 5677 c/o 5630	Shut In 9-22-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		"Blm Hole"	
Shut-In Pressure, Casing, PSIG 1041	+ 12 = PSIA 1053	Days Shut-In 35	Shut-In Pressure, Tubing ---	PSIG + 12 = PSIA ---	
Flowing Pressure: P 182	+ 12 = PSIA 194		Working Pressure: Pw Calc.	PSIG + 12 = PSIA 275	
Temperature: T = 73 F	F = .9877	n = .75	Fpv (From Tables) 1.015	Gravity .620	Fg = .9837

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = 12.365 \times 194 \times .9877 \times .9837 \times 1.015 = \underline{2366} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,108,809}{1,033,184} \right)^n = 2366 \times (1.0731)^{.75} = 2366 \times 1.0544$$

$$Aof = \underline{2495} \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY _____

Calculated by H. L. Kendrick

Lewis D. Galloway
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