

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 14, 1956

Operator Petro-Atlas		Lease Foster # 1	
Location 1780'S, 1190'W, Sec. 13-25N-8W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Ballard	
Casing Diameter 5½	Set At Feet 2652	Tubing Diameter 1¼	Set At Feet 2665
Perforation Zone From 2652	To 2670	Total Depth 2692 - plugged back to 2670'	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750	Choke Coefficient C 14.1605		
Shut-in Pressure, Casing, PSIG 619	PSIA 631	Days Shut-in 11	Shut-in Pressure, Tubing, PSIG 619
Flowing Pressure, Casing, PSIG 407	PSIA 419		Flowing Pressure, Tubing, PSIG 419
Temperature, Casing, F 67	F .85		Temperature, Tubing, F 67
			Gravity .655 est.

$$\text{CHOKE VOLUME} = Q = C \times R_1 \times R_2 \times R_3 \times R_4 \times R_5$$

$$Q = 14.1605 \times 419 \times .9933 \times .9571 \times 1.042 = 5878 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Q = \left(\frac{R_1^2}{R_2^2 - R_1^2} \right)^n$$

$$Q = \left(\frac{398,161}{212,400} \right)^{.85} \times 5878 = 5878 \times 1.7060$$

$$Q = 10,028 \text{ MCF/D}$$

H. L. Kendrick

Tom Bolack and Al Greer



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