

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 18, 1958

Operator El Paso Natural Gas Company		Lease Seymour State No. 1	
Location 990N, 1650W; 36-30-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec Pictured Cliffs	
Casing: Diameter 5-1/2	Set At: Feet 2395	Tubing: Diameter 1-1/4	Set At: Feet 2251
Pay Zone: From 2230	To 2344	Total Depth: 2574	Shut-In 4-4-58
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 660	- 12 = PSIA 672	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 660	- 12 = PSIA 672	
Flowing Pressure: P PSIG 61	- 12 = PSIA 73		Working Pressure: P _w PSIG 65	- 12 = PSIA 77	
Temperature: T °F 59	n = .85		F _{pv} (From Tables) 1.009	Gravity .663	

CHOKE VOLUME = Q = C × P_t × F_t × F_g × F_{pv}

$$Q = 12.365 \times 73 \times 1.0010 \times .9535 \times 1.009 = \underline{869} \text{ MCF/D}$$

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

$$Aof = \left(\frac{451584}{445655} \right)^n = (1.0133)^{.85} \times 869 = 1.0113 \times 869$$

$$Aof = \underline{879} \text{ MCF/D}$$

TESTED BY: Richard Proctor

WITNESSED BY: _____

Checked By: H. L. Kendrick

Lewis D. Galloway
L. D. Galloway



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