

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE January 4, 1974

Operator El Paso Natural Gas Company		Lease Scott A #2 (PC)	
Location 1640/S, 1810/E, Sec. 24, T26N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2789'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2692	To 2712	Total Depth: 2789	Shut In 12-5-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 866	+ 12 = PSIA 878	Days Shut-In 30	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 35	+ 12 = PSIA 47	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 58		
Temperature: T = 52 °F	F <sub>t</sub> = 1.008	n = .85	F <sub>pv</sub> (From Tables) 1.004	Gravity .670	F <sub>g</sub> = .9463

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

$$Q = (12.365) (47) (1.008) (.9463) (1.004) = \underline{\quad 557 \quad} \text{MCF/D}$$

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

$$Aof = Q \left( \frac{770884}{767520} \right)^n = 557 (1.0044)^{.85} = 557 (1.0037)$$

$$Aof = \underline{\quad 559 \quad} \text{MCF/D}$$

Note: Medium mist of water throughout the test.

TESTED BY Rhames

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*William D. Welch*  
William D. Welch  
Well Test Engineer