

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE December 28, 1973

Operator El Paso Natural Gas Company		Lease Scott A #2 (CH)	
Location 1640/S, 1810/E, Sec. 24, T26N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3688'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3546	To 3650	Total Depth: 3689	Shut In 12-20-73
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 835	+ 12 = PSIA 847	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 36	+ 12 = PSIA 48		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 62	
Temperature: T = 55 °F	F <sub>t</sub> = 1.005	n = .75	F <sub>pv</sub> (From Tables) 1.004	Gravity .655	F <sub>g</sub> = .9571

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

$$Q = (12.365)(48)(1005)(.9571)(1.004) = \underline{\quad 573 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{717409}{713565} \right)^n = 573 (1.0054)^{.75} = 573(1.0040)$$

$$Aof = \underline{\quad 575 \quad} \text{ MCF/D}$$

Note: Well produced a light fog  
of water.

TESTED BY B. J. Broughton

WITNESSED BY \_\_\_\_\_

William D. Welch  
William D. Welch  
Well Test Engineer