

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 15, 1973

Operator El Paso Natural Gas Company		Lease Vaughn #26	
Location 1800/N, 1100/W, Sec. 26, T26N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3641'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3490	To 3515	Total Depth: 3641	Shut In 10-3-73
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 947	+ 12 = PSIA 959	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 59	+ 12 = PSIA 71		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 92	
Temperature: T = 58°F	n = .75		F _{pv} (From Tables) 1.009	Gravity .655	F _g = .9571

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

$$Q = (12.365)(71)(1.002)(.9571)(1.009) = \underline{\quad 850 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{919681}{911217} \right)^n = 850 (1.0093)^{.75} = 850 (1.0069)$$

$$Aof = \underline{\quad 855 \quad} \text{ MCF/D}$$

Note: Dry flow.

TESTED BY Rhames

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer