

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 25, 1976

Operator Koch Industries		Lease Walker #6	
Location 13-31-10		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 3548'	Tubing: Diameter 2.375	Set At: Feet 3422'
Pay Zone: From 3414	To 3454	Total Depth: 3454'	Shut In 2-18-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 790	PSIG	+ 12 = PSIA 802	Days Shut-In 7	Shut-In Pressure, Tubing 790	PSIG + 12 = PSIA 802
Flowing Pressure: P 91	PSIG	+ 12 = PSIA 103		Working Pressure: P _w 324	PSIG + 12 = PSIA 336
Temperature: T = 65 °F		n = .85		F _{pv} (From Tables) 1.009	Gravity .670 F _g = 0.9463

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

$$Q = (12.365)(103)(0.9952)(0.9463)(1.009) = 1210 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{643204}{530308} \right)^n = (1210)(1.2129)^{.85} = (1210)(1.1783)$$

$$Aof = 1426 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

VERIFIED BY



H. E. McNally
Well Test Engineer