

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 7, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #173 (PC)	
Location 1460/N, 1030/E, Sec. 17, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3170'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3010'	To 3072'	Total Depth: 4091	Shut In 1-22-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 935	+ 12 = PSIA 947	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 64	+ 12 = PSIA 76		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 96	
Temperature: T = 47 °F	F _t = 1.0127	n = .85	F _{pv} (From Tables) 1.010	Gravity .665	F _g = .9498

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

$$Q = 12.365 (76) (1.0127) (.9498) (1.010) = \underline{\quad 913 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{896809}{887593} \right)^n = 913(1.0104)^{.85} = 913(1.0088)$$

$$Aof = \underline{\quad 921 \quad} \text{ MCF/D}$$

Note: Well produced a dry flow throughout the test.

TESTED BY Johnson

WITNESSED BY Rhames

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

