

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 5, 1974

Operator El Paso Natural Gas Company		Lease Atlantic B #14	
Location 1470/S, 1180/W, Sec. 5, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3019'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2868	To 2880	Total Depth: PBT 3025 3009	Shut In 3-29-74
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 840	+ 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	--
Flowing Pressure: P PSIG 68	+ 12 = PSIA		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	100
Temperature: T = 58 °F	n =		F _{pv} (From Tables) 1.007	Gravity .635	F _g = .9721
Ft = 1.0019	.85				

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

$$Q = 12.365(80)(1.0019)(.9721)(1.007) = \underline{\quad 970 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{725904}{715904} \right)^n = 970(1.0140)^{.85} = 970(1.0119)$$

$$Aof = \underline{\quad 982 \quad} \text{ MCF/D}$$

Note: Dry flow



TESTED BY Fothergill

WITNESSED BY

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