

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/28/72

Operator EL PASO NATURAL GAS COMPANY		Lease Heaton #30	
Location 800/S, 1686/E, Sec. 28, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Aztec Ext.	
Casing: Diameter 2.875	Set At: Feet 2562	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2422	To 2464	Total Depth: 2570	Shut In 12/20/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 585	+ 12 = PSIA 597	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 75	+ 12 = PSIA 87	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 106		
Temperature: T = 62 °F	F _t = .9981	n = .85	F _p (From Tables) 1.007	Gravity .635	F _g = .9721

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_p

$$Q = (12.365)(87)(.9981)(.9721)(1.007) = \underline{1051} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{356409}{345173} \right)^n = (1051)(1.0326)^{.85} = (1051)(1.0276)$$

$$Aof = \underline{1080} \text{ MCF/D}$$

NOTE: The well produced a medium fog of water throughout the test.

TESTED BY W. D. Welch

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

