

OCC /

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/18/72

Operator EL PASO NATURAL GAS COMPANY		Lease Neil #11	
Location 1575/N, 1700/E, Sec. 14, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2786	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2546	To 2588	Total Depth: 2786	Shut In 12/11/72
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 884	+ 12 = PSIA 896	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 214	+ 12 = PSIA 226	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	278	
Temperature: T = 62 °F	n = Ft = .9981	Fpv (From Tables) 1.020	Gravity .635	Fg = .9721	

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

$$Q = (12.365)(226)(.9981)(.9721)(1.020) = \underline{2766} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{802816}{725532} \right)^n = 2766(1.1065)^{.85} = 2766 (1.0899)$$

$$Aof = \underline{3015} \text{ MCF/D}$$

NOTE: The well produced a light mist of water throughout test.

TESTED BY Broughton

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

