

OCC /

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 12/18/72

Operator EL PASO NATURAL GAS COMPANY		Lease Neil #10	
Location 1050/S, 1000/E, Sec. 14, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2716	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2516	To 2626	Total Depth: 2716	Shut In 12/11/72
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 857	+ 12 = PSIA 869	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 278	+ 12 = PSIA 290	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 357		
Temperature: T = 60 °F      F <sub>t</sub> = 1.000	n = .85	F <sub>pv</sub> (From Tables) 1.026	Gravity .635	F <sub>g</sub> = .9721	

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

$$Q = (12.365)(290)(1.000)(.9721)(1.026) = \underline{3576} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{755161}{627712} \right)^n = 3576 (1.2030)^{.85} = 3576 (1.1701)$$

$$Aof = \underline{4185} \text{ MCF/D}$$

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