

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9/21/72

Operator EL PASO NATURAL GAS COMPANY		Lease Stromberg #9	
Location 1650/S, 1557/E, Sec. 34-T23N-R37		County Sandoval	State NM
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2337	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2742	To 2772	Total Depth: 2337	Shut In 9/14/72
Stimulation Method SWP		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 555	+ 12 = PSIA 567	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 15	+ 12 = PSIA 27	Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA 33		
Temperature: T = 55 °F	F <sub>t</sub> = 1.005	n = .85	F <sub>pv</sub> (From Tables) 1.004	Gravity .700	F <sub>g</sub> = .9258

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

$$Q = (12.365)(27)(1.005)(.9258)(1.004) = 312 \text{ MCF/D}$$

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

$$Aof = \left( \frac{321.439}{320.400} \right)^n = (312)(1.0034)^{.85} = (312)(1.0029)$$

$$Aof = 313 \text{ MCF/D}$$

NOTE: Well produced light to medium fog of water throughout test.

TESTED BY Don Norton

WITNESSED BY

*J. A. Jones*  
J. A. Jones  
Well Test Engineer

