

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 12/22/72

Operator EL PASO NATURAL GAS COMPANY		Lease Florance A #2	
Location 1170/N, 1180/W, Sec. 25, T30N, R10W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 5.500	Set At: Feet 3038	Tubing: Diameter 2.375	Set At: Feet 2664
Pay Zone: From 2715	To 2756	Total Depth: 3038	Shut In 12/15/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 977	+ 12 = PSIA 989	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 977	+ 12 = PSIA 989	
Flowing Pressure: P PSIG 350	+ 12 = PSIA 362		Working Pressure: P <sub>w</sub> PSIG 609	+ 12 = PSIA 621	
Temperature: T = 69 °F	F <sub>t</sub> = .9915	n = .85	F <sub>pv</sub> (From Tables) 1.033	Gravity .635	F <sub>g</sub> = .9721

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

$$Q = (12.365)(362)(.9915)(.9721)(1.033) = 4457 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{978121}{592480} \right)^n = 4457 (1.6509)^{.85} = 4457 (1.5313)$$

$$Aof = 6824 \text{ MCF/D}$$

NOTE: Well produced a light fog of water and distillate throughout test.

TESTED BY Norton

WITNESSED BY

*William D. Welch*  
William D. Welch  
Well Test Engineer

