

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE Oct. 8, 1979

Operator El Paso Natural Gas Company		Lease Mudge #15A (PM)	
Location SE 8-31-11		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Aztec PC Ext.	
Casing: Diameter 4.500	Set At: Feet 5350	Tubing: Diameter 1 1/4	Set At: Feet 2784
Pay Zone: From 2438	To 2574	Total Depth: 5350	Shut In 9-19-79
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 828	+ 12 = PSIA 840	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 828	+ 12 = PSIA 840	
Flowing Pressure: P PSIG 227	+ 12 = PSIA 239		Working Pressure: P <sub>w</sub> PSIG 243	+ 12 = PSIA 255	
Temperature: T = 53 °F	F <sub>t</sub> = 1.007	n = .85	F <sub>pv</sub> (From Tables) 1.026	Gravity .670 F <sub>g</sub> = .9463	

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

$$Q = (12.365)(239)(1.007)(.9463)(1.026) = \underline{2889} \text{ MCF/D}$$

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

$$Aof = \left( \frac{705600}{640575} \right)^n = (1.1015)^{.85} (2889) = (1.0857)(2889)$$

NOTE: Well Blew Dry Gas Throughout Test and Vented 321 MCF/D to the Atmosphere During The Test.

$$Aof = \underline{3137} \text{ MCF/D}$$

TESTED BY L. Fothergill

WITNESSED BY \_\_\_\_\_

*C.R. Wagner*  
Well Test Engineer

