

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE Sept. 26, 1979

Operator El Paso Natural Gas Company		Lease Mudge #15 A (PM)	
Location SE 8-31-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5350	Tubing: Diameter 2 3/8	Set At: Feet 5254
Pay Zone: From 4614	To 5253	Total Depth: 5350	Shut In 9-19-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, --- PSIG	+ 12 = PSIA ---	Days Shut-In 7	Shut-In Pressure, Tubing 798 PSIG	+ 12 = PSIA 810	
Flowing Pressure: P 318 PSIG	+ 12 = PSIA 330		Working Pressure: P <sub>w</sub> Calculate PSIG	+ 12 = PSIA 651	
Temperature: T = 66 °F	F <sub>t</sub> = 0.9943	n = 0.75	F <sub>pv</sub> (From Tables) 1.038	Gravity 0.695	F <sub>g</sub> = 0.9292

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

$$Q = (12.365)(330)(0.9943)(0.9292)(1.038) = 3913 \text{ MCF/D}$$

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

$$Aof = \left( \frac{656100}{232299} \right)^{0.75} =$$

$$(2.8244)^{0.75} (3913) = (2.1787)(3913)$$

NOTE: Well Blew a Very Light Fog of Water Throughout Test & Vented 377 MCF to The Atmosphere.

$$Aof = 8525 \text{ MCF/D}$$

TESTED BY Carl Rhames

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

*C.R. Wagner*  
Well Test Engineer

