

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE Sept. 25, 1979

Operator El Paso Natural Gas Company		Lease Mudge 12A (PM)	
Location SE 17-31-11		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Blanco Ext.	
Casing: Diameter 4.500	Set At: Feet 5632	Tubing: Diameter 1 1/4	Set At: Feet 2984
Pay Zone: From 2918	To 3022	Total Depth: 5632	Shut In 9-11-79
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 738	+ 12 = PSIA 750	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 738	+ 12 = PSIA 750	
Flowing Pressure: P PSIG 82	+ 12 = PSIA 94		Working Pressure: P _w PSIG 125	+ 12 = PSIA 137	
Temperature: T = 50 °F	F _r = 1.010	n = .85	F _{pv} (From Tables) 1.010	Gravity .670	F _g = .9463

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

$$Q = (12.365) (94) (1.010) (.9463) (1.010) = 1122 \text{ MCF/D}$$

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

$$Aof = \left(\frac{562500}{543731} \right)^{.85} = (1.0345)^{.85} (1122) = (1.0293) (1122)$$

NOTE: Well Blew Dry Gas Through out Text
and Vented 134 MCF To The Atmosphere

$$Aof = 1155 \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____

H. E. McAnally
Well Test Engineer