

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE _____

Operator El Paso Natural Gas Company		Lease El Paso Natural Gas	
Location Twp. 15S, R. 17E, Section 29, T-31-N, R-17-E		County El Paso	State Texas
Formation Permian - G. 01422a		Pool Permian	
Casing: Diameter 2.675	Set At: Feet 2569	Tubing: Diameter 2.625	Set At: Feet 2569
Pay Zone: From 2482	To 2540	Total Depth: 2569	Shut In
Stimulation Method Sand Water Frac		Flow Through Casing Y	Flow Through Tubing Y

Choke Size, Inches .750		Choke Constant: C 12.365		Rel. Permeability 0.85	
Shut-in Pressure, Casing, PSIG 663	+ 12 = PSIA 675	Days Shut-in 9	Shut-in Pressure, Tubing PSIG 70	+ 12 = PSIA 82	
Flowing Pressure: P PSIG 297	+ 12 = PSIA 309	Working Pressure: Pw PSIG 285	+ 12 = PSIA 297		
Temperature: T = 87 °F	Ft = .9933	n = .85	Fpv (From Tables) 1.019	Gravity 0.85	

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

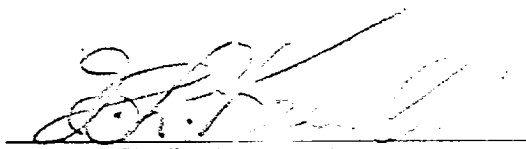
$$Q = (12.365) (209) (.9933) (.9535) (1.019) = 2494 \text{ MCF/D}$$

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

$$Aof = \left(\frac{155,625}{390,600} \right)^n = (2494) (1.1664)^{.85} = (2494) (1.1) = 2843$$

NOTE: Medium fog
distillate oil

$$Aof = 2843 \text{ MCF/D}$$

TESTED BY Don NortonWITNESSED BY Tom B. Grant

R. L. H.
