

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 24, 1965

Operator <b>Beta Development Company</b>		Lease <b>San Juan 29-6 Unit No. 88</b>	
Location <b>2460'S, 850'W, Section 33, T-29-N, R-6-W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Basin</b>	
Casing Diameter <b>4.500</b>	Set At: Feet <b>7758</b>	Tubing Diameter <b>2.375</b>	Set At: Feet <b>7717</b>
Pay Zone: From <b>7550</b>	To <b>7738</b>	Total Depth: <b>7760</b>	Shut In <b>5-17-65</b>
Stimulation Method <b>Sand Water Frac</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>		Company Distribution Only	
Shut-In Pressure, Casing, PSIG <b>2576</b>	+ 12 = PSIA <b>2588</b>	Days Shut-In <b>7</b>	Shut-In Pressure, Tubing PSIG <b>2574</b>	+ 12 = PSIA <b>2586</b>	
Flowing Pressure: P PSIG <b>257</b>	+ 12 = PSIA <b>269</b>		Working Pressure: Pw PSIG <b>1407</b>	+ 12 = PSIA <b>1419</b>	
Temperature: T = 120 °F	F <sub>t</sub> = .9469	n = <b>.75</b>	Fpv (From Tables) <b>1.019</b>	Gravity <b>.670</b>	F <sub>g</sub> = .9463

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

$$Q = (12.365) (269) (.9469) (.9463) (1.019) = \underline{3037} \text{ MCF/D}$$

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

$$Aof = \left( \frac{6,697,744}{4,684,183} \right)^n = (3037) (1.4298) = (3037) (1.3075)$$

$$Aof = \underline{3,971} \text{ MCF/D}$$

NOTE: Well produced a very heavy spray of distillate and water throughout the test.

TESTED BY George Hoffman (Beta)WITNESSED BY H. E. McAnally (EPNG)

*Lewis D. Galloway*  
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