

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE December 22, 1965

Operator <b>Beta Development Company</b>		Lease <b>San Juan 29-6 Unit No. 88 (OWWO)</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>7663</b>
Pay Zone: From <b>7550</b>	To <b>7643</b>	Total Depth: <b>P.E. T.D. 7685</b>	Shut In <b>12-14-65</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>			
Shut-In Pressure, Casing, PSIG <b>2288</b>	+ 12 = PSIA <b>2300</b>	Days Shut-In <b>8</b>	Shut-In Pressure, Tubing PSIG <b>2222</b>	+ 12 = PSIA <b>2234</b>	
Flowing Pressure: P <b>61</b> PSIG	+ 12 = PSIA <b>73</b>		Working Pressure: P <sub>w</sub> <b>270</b> PSIG	+ 12 = PSIA <b>282</b>	
Temperature: T = <b>62</b> °F	F <sub>t</sub> = <b>.9981</b>	n = <b>.75</b>	F <sub>pv</sub> (From Tables) <b>1.009</b>	Gravity <b>.670</b>	F <sub>g</sub> = <b>.9463</b>

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

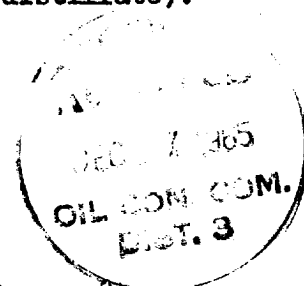
$$Q = (12.365) (73) (.9981) (.9463) (1.009) = \underline{862} \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{5,290,000}{5,210,476} \right)^n = (862) (1.0152)^{.75} = (862) (1.0114)$$

NOTE: Well produced a heavy spray of distillate and water throughout the test (Mostly light distillate).

$$A_{of} = \underline{872} \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)WITNESSED BY Hermon E. McAnelly (EPNG)

*Lewis D. Galloway*  
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