

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 30, 1964

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-6 Unit No. 97(PC) (OWO)</b>	
Location <b>810'N, 1700'E, Sec. 35, T-28-N, R-6-W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>So. Blanco</b>	
Casing: Diameter <b>7.625</b>	Set At: Feet <b>3587</b>	Tubing: Diameter <b>1.660</b>	Set At: Feet <b>3393</b>
Pay Zone: From <b>3382</b>	To <b>3418</b>	Total Depth: <b>5770</b>	Shut In <b>12-9-64</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

Choke Size, inches <b>0.75</b>		Choke Constant: C <b>12.365</b>	
Shut-In Pressure, Casing, PSIG <b>701 (PC)</b>	+ 12 = PSIA <b>713</b>	Days Shut-in <b>21</b>	Shut-In Pressure, Tubing PSIG <b>701 (PC)</b> + 12 = PSIA <b>713</b>
Flowing Pressure: P PSIG <b>181</b>	+ 12 = PSIA <b>193</b>	Working Pressure: P <sub>w</sub> PSIG <b>190</b>	+ 12 = PSIA <b>202</b>
Temperature: T = <b>60</b> °F	F <sub>t</sub> = <b>1.000</b>	n = <b>.85</b>	F <sub>pv</sub> (From Tables) <b>1.019</b> Gravity <b>.662</b> F <sub>g</sub> = <b>.9535</b>

ISIPT (MV) = 721 psig  
FSIPT (MV) = 725 psig

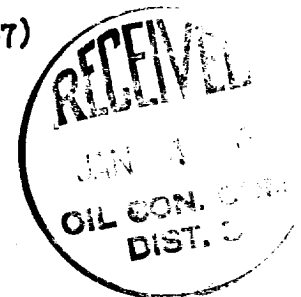
CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (12.365)(193)(1.000)(.9535)(1.019) = \underline{2319} \text{ MCF/D}$$

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

$$Aof = \left( \frac{508,369}{467,565} \right)^n = (2319)(1.0872)^{.85} = (2319)(1.0737)$$

$$Aof = \underline{2490} \text{ MCF/D}$$



TESTED BY Hermon E. McAnally  
CHECKED  
CORRECTED BY Tom B. Grant

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