

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 16, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-7 Unit #176 (PC)</u>	
Location <u>1695/N, 1650/W, Sec. 29, T27N, R7W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>So. Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2980'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Per Zone: From <u>2840'</u>	To <u>2888'</u>	Total Depth: PBD <u>4029' 2969'</u>	Shut In <u>4-5-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing <u>--</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>676</u>	+ 12 = PSIA <u>688</u>	Days Shut-In <u>11</u>	Shut-In Pressure, Tubing, PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P, PSIG <u>186</u>	+ 12 = PSIA <u>198</u>		Working Pressure: Pw, PSIG <u>Calculated</u>	+ 12 = PSIA <u>248</u>	
Temperature: T = <u>61</u> °F	n = <u>.85</u>		Fpv (From Tables) <u>1.018</u>	Gravity <u>.645</u>	Fg = <u>.9645</u>

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

$$Q = 12.365(198)(.9990)(.9645)(1.018) = \underline{2401} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{473344}{411840} \right)^n = 2401(1.1493)^{.85} = 2401(1.1256)$$

$$Aof = \underline{2703} \text{ MCF/D}$$

Note: Blew dry gas for entire test.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

