

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE November 21, 1973

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Canyon Largo #206</b>	
Location <b>890/S, 800/W, Sec. 19, T25N, R6W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>Ballard</b>	
Casing: Diameter <b>2.875</b>	Set At: Feet <b>2802'</b>	Tubing: Diameter <b>No Tubing</b>	Set At: Feet
Pay Zone: From <b>2612</b>	To <b>2710'</b>	Total Depth: <b>2802</b>	Shut In <b>10-27-73</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>		Tubingless Completion	
Shut-In Pressure, Casing, <b>307</b>	PSIG	+ 12 = PSIA <b>319</b>	Days Shut-In <b>25</b>	Shut-In Pressure, Tubing <b>No Tubing</b>	PSIG + 12 = PSIA
Flowing Pressure: P <b>144</b>	PSIG	+ 12 = PSIA <b>156</b>		Working Pressure: P <sub>w</sub> <b>Calculated</b>	PSIG + 12 = PSIA <b>192</b>
Temperature: T = <b>56 °F</b>	F <sub>t</sub> = <b>1.004</b>	n = <b>.85</b>		F <sub>pv</sub> (From Tables) <b>1.018</b>	Gravity <b>.700</b> F <sub>g</sub> = <b>.9258</b>

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

$$Q = (12.365)(156)(1.004)(.9258)(1.018) = \underline{1825} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{101761}{64897} \right)^n = 1825 (1.5680)^{.85} = 1825 (1.4657)$$

$$Aof = \underline{2675} \text{ MCF/D}$$

Note: Well produced dry gas.

TESTED BY Norton

WITNESSED BY \_\_\_\_\_

*William D. Welch*  
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Well Test Engineer

