

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 6, 1973

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Riddle C No. 5</b>	
Location <b>805'S, 1670'E, Section 31, T31N, R9W</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs Ext.</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>2-7/8</b>	Set At: Feet <b>3346</b>	Tubing: Diameter <b>No Tubing</b>	Set At: Feet
Pay Zone: From <b>3220</b>	To <b>3258</b>	Total Depth: <b>3346</b>	Shut In <b>5-29-73</b>
Stimulation Method <b>SWF</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, PSIG <b>752</b>	+ 12 = PSIA <b>764</b>	Days Shut-In <b>8</b>	Shut-In Pressure, Tubing No Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG <b>87</b>	+ 12 = PSIA <b>99</b>		Working Pressure: P <sub>w</sub> Calculated PSIG	+ 12 = PSIA <b>126</b>	
Temperature: T = <b>62</b> °F	F <sub>t</sub> = <b>.9981</b>	n = <b>.85</b>	F <sub>pv</sub> (From Tables) <b>1.007</b>	Gravity <b>.635</b>	F <sub>g</sub> = <b>.9721</b>

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

$$Q = 12.365 \times 99 \times .9981 \times .9721 \times 1.007 = \underline{1196} \text{ MCF/D}$$

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

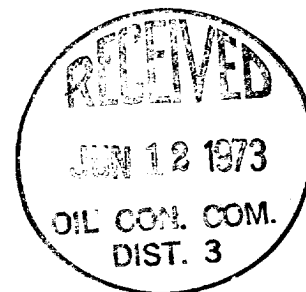
NOTE: Well Blew Dry Gas Throughout Test.

$$Aof = Q \left( \frac{583696}{567820} \right)^n = (1196)(1.0280)^{.85} = (1196)(1.0234)$$

$$Aof = \underline{1225} \text{ MCF/D}$$

TESTED BY Roger Hardy

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



*William D. Welch*  
William D. Welch, Well Test Engineer  
*Len*