

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 19, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 27-4 Unit #75</u>	
Location <u>790/N, 790/W, Sec. 21, T27N, R4W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>PC</u>		Pool <u>Tapacito</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>4224'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>4062'</u>	To <u>4116'</u>	Total Depth: <u>PBTD</u> <u>4224 4213'</u>	Shut In <u>12-10-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>1072</u>	+ 12 = PSIA <u>1084</u>	Days Shut-In <u>9</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>210</u>	+ 12 = PSIA <u>222</u>		Working Pressure: Pw PSIG <u>Calculated</u>	+ 12 = PSIA <u>298</u>	
Temperature: <u>T = 57 °F</u>	n = <u>.85</u>		Fpv (From Tables) <u>1.025</u>	Gravity <u>.680</u>	<u>Fg = 0.9393</u>

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

$$Q = 12.365(222)(1.003)(0.9393)(1.025) = \underline{2651} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1175056}{1086252} \right)^n = 2651(1.0818)^{.85} = 2651(1.069) = \underline{2834} \text{ MCF/D}$$

$$Aof = \underline{2834} \text{ MCF/D}$$

Note: The well blew a dry gas during test.

TESTED BY R. Hardy

WITNESSED BY _____

Loren W. Fothergill
Well Test Engineer

