

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 24, 1963

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith No. 49</u>	
Location <u>1550'N, 1840'E, Sec. 9, T-24-N, R-3-W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>South Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3351</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>----</u>
Pay Zone: From <u>3268</u>	To <u>3296</u>	Total Depth: <u>3351</u>	Shut In <u>10-17-63</u>
Stimulation Method <u>Sand/Water Frac.</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		<u>"TUBINGLESS COMPLETION"</u>	
Shut-In Pressure, Casing, PSIG <u>922</u>	+ 12 = PSIA <u>934</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>----</u>	
Flowing Pressure: P PSIG <u>245</u>	+ 12 = PSIA <u>257</u>		Working Pressure: Pw PSIG <u>Calc.</u>	+ 12 = PSIA <u>330</u>	
Temperature: T = <u>61</u> °F	Ft = <u>.9990</u>	n = <u>.85</u>	Fpv (From Tables) <u>1.025</u>	Gravity <u>.650</u>	Fg = <u>.9608</u>

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

$$Q = (12.365)(257)(.9990)(.9608)(1.025) = \underline{\quad 3126 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{872,356}{763,456} \right)^n = (3126)(1.1426)^{.85} = (3126)(1.1200)$$

$$Aof = \underline{\quad 3501 \quad} \text{ MCF/D}$$

TESTED BY Dan RobertsCalculated by W. D. Dawson

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