

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 4, 1963

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith Unit No. 48</u>	
Location <u>800'S, 1550'E, Sec. 10-24-3</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>3212</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3099</u>	To <u>3153</u>	Total Depth: <u>3195</u>	Shut In <u>9-27-63</u>
Stimulation Method <u>Sand Water Frac.</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>996</u>	+ 12 = PSIA <u>1008</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>151</u>	+ 12 = PSIA <u>163</u>		Working Pressure: Pw PSIG <u>Calc.</u>	+ 12 = PSIA <u>207</u>	
Temperature: T = <u>57</u> °F	n = <u>1.0029</u>		Fpv (From Tables) <u>1.020</u>	Gravity <u>.700</u>	Fg = <u>.9258</u>

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

$$Q = (12.365)(163)(1.0029)(.9258)(1.020) = \underline{1909} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1016064}{973215} \right)^n = (1.0440)^{.85}(1909) = (1.0373)(1909)$$

NOTE: Light spray of water and distillate throughout test.

$$Aof = \underline{1980} \text{ MCF/D}$$

TESTED BY Dannie RobertsChecked by W. D. DawsonCalculated by Tom. B. Grant

Lewis D. Galloway
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