

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 2, 1964

Operator <u>Beta Development Company</u>		Lease <u>San Juan 29-6 Unit No. 80</u>	
Location <u>(3112, 820", Sec. 31, T-29-N, R-6-W)</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Nakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>1.500</u>	Set At: Feet <u>8110</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>8061</u>
Pay Zone: From <u>7265</u>	To <u>8080</u>	Total Depth: <u>8110</u>	Shut In <u>9-24-64</u>
Stimulation Method <u>Acid Frac.</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2429</u>	+ 12 = PSIA <u>2441</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>2429</u>	+ 12 = PSIA <u>2441</u>	
Flowing Pressure: P PSIG <u>196</u>	+ 12 = PSIA <u>208</u>		Working Pressure: Pw PSIG <u>726</u>	+ 12 = PSIA <u>738</u>	
Temperature: T = <u>69</u> °F	n = <u>.75</u>		Fpv (From Tables) <u>1.020</u>	Gravity <u>.670</u>	Fg = <u>.9463</u>

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(208)(.9915)(.9463)(1.020) = \underline{2461} \text{ MCF/D}$$

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

$$Aof = \left(\frac{5,958,481}{5,413,837} \right)^n = (2461)(1.1006)^{.75} = (2461)(1.0745)$$

NOTE: Well produced very little liquid throughout the test.

$$Aof = \underline{2644} \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)WITNESSED BY Hermon E. McAnelly (EPNG)

Lewis D. Galloway
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