

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 8-25-66

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Day "A" No. 1 (OIRMO)</u>	
Location <u>990'S, 990'W, Sec. 8, T-29-N, R-8-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>5326</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>5225</u>
Pay Zone: From <u>4443</u>	To <u>5254</u>	Total Depth: <u>5696</u>	Shut In <u>8-15-66</u>
Stimulation Method <u>Sand Water Free</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>	
Shut-In Pressure, Casing, PSIG <u>838</u>	+ 12 = PSIA <u>850</u>	Days Shut-In <u>10</u>	Shut-in Pressure, Tubing PSIG <u>691</u>
Flowing Pressure: P PSIG <u>316</u>	+ 12 = PSIA <u>328</u>	Working Pressure: P _w PSIG <u>753</u>	+ 12 = PSIA <u>765</u>
Temperature: T = <u>82</u> °F	n = <u>.9795</u>	F _{pv} (From Tables) <u>1.033</u>	Gravity <u>.705</u> F _g = <u>.922</u>

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

$$Q = (12.365)(328)(.9795)(.9225)(1.033) = \underline{3.186} \text{ MCF/D}$$

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

$$Aof = \left(\frac{722,500}{155,491} \right)^n = (3783)(4.665)^{.75} = (3783)(3.1648)$$

$$Aof = \underline{11.982} \text{ MCF/D}$$

NOTE: Well produced a large slug of water after 3 1/2 minutes then decreased to a very light spray of distillate and water by the end of the test.

TESTED BY H. E. McAnellyChecked
WITNESSED BY C. R. Wagner

H. L. Kendrick
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