

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 2, 1972

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-6 U. No. 165</u>	
Location <u>990/N, 1190/E, Sec. 30 T 28N, R 6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>7874</u>	Tubing: Diameter <u>1.900</u>	Set At: Feet <u>7746</u>
Pay Zone: From <u>7570</u>	To <u>7751</u>	Total Depth: <u>7874</u>	Shut In <u>7-26-72</u>
Stimulation Method <u>SWF</u>		Flow Through Casing	Flow Through Tubing <u>XX</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2675</u>	+ 12 = PSIA <u>2687</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>2242</u>	+ 12 = PSIA <u>2254</u>	
Flowing Pressure: P PSIG <u>185</u>	+ 12 = PSIA <u>197</u>		Working Pressure: Pw PSIG <u>470</u>	+ 12 = PSIA <u>482</u>	
Temperature: T = <u>68</u> °F	Ft = <u>.9924</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.016</u>	Gravity <u>.620</u>	Fg = <u>.9837</u>

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

$$Q = (12.365)(197)(.9924)(.9837)(1.016) = \underline{2416} \text{ MCF/D}$$

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

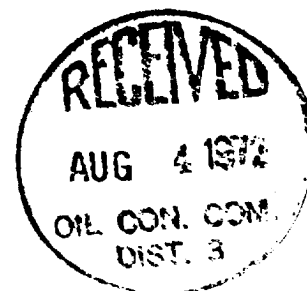
NOTE: Well produced medium spray of distillate and water in eight minutes and continued throughout the test.

$$Aof = \left(\frac{7273809}{7041485} \right)^n = (2416)(1.0330)^{.75} = (2416)(1.0246)$$

$$Aof = \underline{2476} \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____



J. A. Jones
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