

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 28, 1964

Operator <u>El Paso Natural Gas Company</u>		Lease <u>McElvain No. 6-A (OWWO)</u>	
Location <u>1700'S, 890'W, Sec. 25, T-30-N, R-7-W</u>		County <u>Rio Arriba</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>5680</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>5584</u>
Pay Zone: From <u>5134</u>	To <u>5608</u>	Total Depth: <u>5680</u>	Shut In <u>4-16-64</u>
Stimulation Method <u>Sand Water 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>954</u>	+ 12 = PSIA <u>966</u>	Days Shut-In <u>12</u>	Shut-In Pressure, Tubing PSIG <u>762</u>	+ 12 = PSIA <u>774</u>	
Flowing Pressure: P PSIG <u>179</u>	+ 12 = PSIA <u>191</u>		Working Pressure: P _w PSIG <u>670</u>	+ 12 = PSIA <u>682</u>	
Temperature: T = <u>74</u> °F	n = <u>.75</u>		F _{pv} (From Tables) <u>1.018</u>	Gravity <u>.676</u>	F _g = <u>.9427</u>

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

$$Q = (12.365)(191)(.9868)(.9427)(1.018) = \underline{2237} \text{ MCF/D}$$

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

$$Aof = \left(\frac{933156}{468032} \right)^n = (2237)(1.9937)^{.75} = (2237)(1.6790) = \underline{3756} \text{ MCF/D}$$

NOTE: Blew light fog of H₂O.

$$Aof = \underline{3756} \text{ MCF/D}$$

TESTED BY Jess B. Goodwin

Checked

WITNESSED BY Tom B. GrantCalculated by Hermon E. McAnally

Lewis D. Galloway
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