

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE COMPLETION

DATE September 2, 1964

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Section 35 (T3)</u>	
Location <u>1000' - 1000' - 26' - 5-27-64</u>		County <u>El Paso</u>	State <u>New Mexico</u>
Well No. <u>1000-1000-26-5-27-64</u>		Well No. <u>1000-1000-26-5-27-64</u>	
Drilling Date <u>7-27-64</u>	Set At: Feet <u>1000</u>	Test Date <u>9-27-64</u>	At: Feet <u>1000</u>
Pay Zone: From <u>1000</u>	To <u>4190</u>	Test Depth <u>1000</u>	Shut-in <u>9-27-64</u>
Stimulation Method <u>Spot Gel Frac.</u>		Flow Through Casing <u>1</u>	Flow Through Tubing <u>1</u>

Choke Size, inches <u>0.050</u>	Choke Constant: C <u>12.365</u>		Initial Model ID# Backlog set on 1250'	
Shut-In Pressure, Casing, PSIG <u>1059 (PO)</u>	+ 12 = PSIA <u>1071</u>	Days Shut-in <u>37</u>	Shut-in Pressure, Tubing, PSIG <u>1038 (PO)</u>	+ 12 = PSIA <u>1050</u>
Flowing Pressure: P, PSIG <u>168</u>	+ 12 = PSIA <u>180</u>		Working Pressure: Pw, PSIG <u>177</u>	+ 12 = PSIA <u>189</u>
Temperature: T = <u>59</u> °F	n = <u>.85</u>		F _g (From Tables) <u>1.0010</u>	Gravity <u>.650</u> F _g = <u>.9608</u>

Initial SIPT (HV) = 1156 psig

Final SIPT (HV) = 1159 psig

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

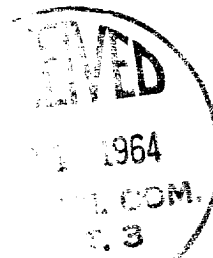
$$Q = (12.365)(180)(1.0010)(.9608)(1.016) = 2175 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^{.85}$$

$$Aof = \left(\frac{1101601}{1038880} \right)^{.85} = (2175)(1.0334)^{.85} = (2175)(1.0283)$$

NOTE: Well produced very little water during test.

$$Aof = 2237 \text{ MCF/D}$$

TESTED BY Hermon E. McAnellyBY H. J. Wendrick

Lewis D. Galloway
Lewis D. Galloway