

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 30, 1964

Operator <u>La Plata Gathering System, Inc.</u>		Lease <u>Houck No. 3-12</u>	
Location <u>1850'N, 2000'E, Sec. 12-29N-10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>1.500</u>	Set At: Feet <u>6909</u>	Tubing: Diameter <u>1.500</u>	Set At: Feet <u>6996</u>
Pay Zone: From <u>6665</u>	To <u>6762</u>	Total Depth: <u>6909</u>	Shut In <u>10-23-64</u>
Stimulation Method <u>Sand Water Free.</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.75</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2051</u>	+ 12 = PSIA <u>2063</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>2043</u>	+ 12 = PSIA <u>2055</u>	
Flowing Pressure: P PSIG <u>502</u>	+ 12 = PSIA <u>514</u>		Working Pressure: P <sub>w</sub> PSIG <u>721</u>	+ 12 = PSIA <u>733</u>	
Temperature: T = <u>86</u> °F	F <sub>t</sub> = <u>.9759</u>	n = <u>.75</u>	F <sub>pv</sub> (From Tables) <u>1.045</u>	Gravity <u>.650</u>	F <sub>g</sub> = <u>.9608</u>

CHOKE VOLUME = Q = C × P<sub>i</sub> × F<sub>t</sub> × F<sub>g</sub> × F<sub>pv</sub>

Q = (12.365)(514)(.9759)(.9608)(1.045) = 6227 MCF/D

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

Aof =  $\left( \frac{4,255,969}{3,718,680} \right)^n = (6227)(1.1444)^{.75} = (6227)(1.1067)$

NOTE: Made light mist of water.

Aof = 6891 MCF/D

TESTED BY W. D. Dawson (EPNG)

WITNESSED BY Oliver Towell & Walt Kilgo (La Plata)

Checked By Tom B. Grant



Lewis D. Galloway  
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