

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 3, 1958

Operator El Paso Natural Gas	Lease San Juan 30-4 Unit No. 25
Location 1800S, 990E; 11-30-4	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pay Undesignated
Casing Depth 5-1/2 San Atm Feet 4016	Tubing Depth 1-1/4 San Atm Feet 3942
Pay Zone 3660	Flow Date c/o 3980
Stratigraphic Interval Sand Water Frac.	Flow Through Tubing Re-Shut in 10/24/58
	Flow Through Tubing X

Choke Size .75	Choke Orifice 12.365	Dry flow 5 Camco Valves
Static Pressure (PSIG) 933	Static Pressure (PSIA) 945	Static Pressure (PSIA) 945
Flowing Pressure (PSIG) 2.3" with through 2" nipple	Flowing Pressure (PSIA) 187	Flowing Pressure (PSIA) 199
Temperature 56	Pressure Coefficient .85	Pressure Coefficient 199

CHOKE VOLUME COEFFICIENT $C_d = \frac{Q}{A \sqrt{P_1 - P_2}}$

Pitot tube reading 2.3" water through 2" nipple 179 MCF/D

$$Q = \frac{C_d A \sqrt{P_1 - P_2}}{\sqrt{1 - \left(\frac{P_2}{P_1}\right)^{\frac{\gamma}{\gamma - 1}}}}$$

$$Q = \frac{C_d A \sqrt{P_1 - P_2}}{\sqrt{1 - \left(\frac{P_2}{P_1}\right)^{\frac{\gamma}{\gamma - 1}}}}$$

Ad = .186 MCF/D

$$1.0464^{.85} \times 179 = 1.0393 \times 179$$



D. K. Bryant

Lewis D. Galloway
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