

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 11, 1956

Operator El Paso Natural Gas Company		Lease McConnell # 6	
Location 1190'N, 1190'E, Sec. 25-26-9		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Ballard	
Casing: Diameter 5½	Set At: Feet 2040	Tubing: Diameter 2"	Set At: Feet 1910
Flow Zone: From 1914	To 1959	Total Depth: 2040 - c/o 1960'	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 613	PSIA 625	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 613
Flowing Pressure: P, PSIG 247	PSIA 259	Working Pressure: Pw, PSIG 390	PSIA 402
Temperature, °F 76	Pressure Coefficient .85	Fpv (From Tables) 1.023	Gravity .665

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

$$Q = 14.1605 \times 259 \times .9850 \times .9498 \times 1.023 = 3510 \text{ MCF/D}$$

$$Q_{PF} = Q \left(\frac{P_r^2}{P_c^2 - P_w^2} \right)^n$$

$$Q_{PF} = 3510 \left(\frac{390,625}{229,021} \right)^{.85} = 1.7056^{.85} \times 3510 = 1.574 \times 3510$$

$$Q_{PF} = 5525 \text{ MCF/D}$$

K. C. McBride



By: Tom Grant

L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

ALBERTA DISTRICT OFFICE

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