

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1961

Operator El Paso Natural Gas Company	Lease Mudge No. 13 (CWDD) (MV)
Location 1500'N, 1775'E, Sec. 20-31N-11W	County San Juan State New Mexico
Formation Mesa Verde	Pool Blanco
Casing 7" Set At: Feet 4904	Tubing 1-1/4" O.D. Set At: Feet 5108
Pay Zone 4992 To 5128	Total Depth 7423 C/O 7380 Shut In 6-26-61
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365	4", 11.34 lbs. Hydril-Liner 5158 to 7407
Shut-In Pressure, Casing, PSIG 641 (MV)	PSIG - 12 PSIA 653	Days Shut-In 41
Flowing Pressure: P, PSIG 193	PSIG - 12 PSIA 205	Shut-In Pressure, Tubing, PSIG 641 (MV)
Temperature 64	.9962	Working Pressure: Pw, PSIG 219
	.75	Flow From Tables: 1.023
		Gravity .699 Fg .9292

Initial SIPT (DK) = 1945 psig

Final SIPT (DK) = 1957 psig

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

$$Q = (12.365)(205)(.9962)(.9292)(1.023)$$

2400

MCF D

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

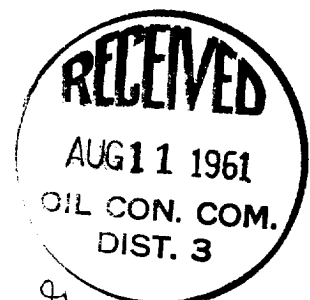
$$A_{ot} = \left(\frac{426,409}{373,048} \right)^n (1.1430)^{.75} (2400) = (1.1055)(2400)$$

A_{ot} 2653

MCF D

Dannie Roberts

Calculated by: W. D. Dawson



Lewis D. Galloway
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