

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 21, 1958

Operator El Paso Natural Gas		Lease San Juan 27-5 Unit No. 32- (P)	
Location 1550N, 1550E; 25-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing Diameter 7-5/8	Set At: Feet 3660	Tubing Diameter 1-1/4	Set At: Feet 3556
Packer Setting 3490	To 3566	Total Depth 5835 c/o 5810	Shut in 9/4/58
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 3/4	Choke Constant, C 12.365	5-1/2 liner 3611 - 5835
Shut-In Pressure, Casing, PSIG (PC) 1010	12 - PSIA 1022	Days Shut-In 47
Flowing Pressure, P, PSIG 289	12 - PSIA 301	Shut-In Pressure, Tubing, PSIG (PC) 1011
Temperature, T, F 62	.85	Working Pressure, Pw, PSIG 305
		Flow From Ties 1.029
		Gravity .650 (est.)

Initial SIPT (MV) = 1136 PSIG
Final SIPT (MV) = 1139 PSIG

Packer at 3657

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_v$

$$Q = 12.365 \times 301 \times .9981 \times .9603 \times 1.029 = 3673 \text{ MCF/D}$$

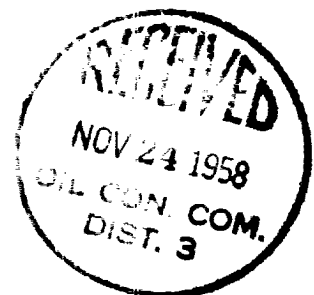
$$\text{OPEN FLOW } A = Q \left(\frac{P_r^2 - P_w^2}{P_r^2} \right)^n$$

$$A_{of} = \left(\frac{1,046,529}{946,040} \right)^n$$

$$3673 (1.1062)^{.85} = 3673 \times 1.0895$$

$$A_{of} = 4002 \text{ MCF/D}$$

D. K. Bryant



Lewis D. Galloway
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