

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 7, 1958

Operator El Paso Natural Gas		Lease San Juan 27-4 Unit 17 (P)	
Location 810S, 1150W; 29-27-4		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing Diameter 7-5/8	Set At: Feet 3818	Tubing Diameter 1-1/4"	Set At: Feet 3866
Pay Zone: From 3650	To 3716	Total Depth 5988	Shut-in 7/17/58
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365		5-1/2 liner 3776 - 5983	
Shut-in Pressure, Casing, PSIG 1018	+ 12 = PSIA 1030	Days Shut-In 21	Shut-in Pressure, Tubing, PSIG 1018	+ 12 = PSIA 1030
Flowing Pressure: P, PSIG 136	+ 12 = PSIA 148		Working Pressure: Pw, PSIG 145	+ 12 = PSIA 157
Temperature: T, °F 64			Fpv: From Tables 1.016	Gravity .704

Initial SIPT (MV) 1127 psig
Final SIPT (MV) 1129 psig

Packer at 3888 Guiberson "shorty"

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

$$Q = 12.365 \times 148 \times .9962 \times .9258 \times 1.016 = 1715 \text{ MCF/D}$$

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

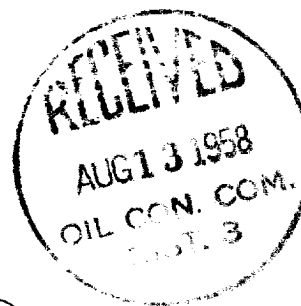
$$A_{of} = \left(\frac{1060900}{1036251} \right)^n$$

$$1.0237^{.85} \times 1715 = 1.0201 \times 1715$$

$$A_{of} = 1749 \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____



Lewis D. Galloway
L. D. Galloway

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