

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETIONDATE January 31, 1958

Operator El Paso Natural Gas Company		Lease Riddle No. 4-F (P)	
Location 1000'N, 1550'E, Sec. 29-28-8		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 2374	Tubing: Diameter 1-1/4	Set At: Feet 2228
Pay Zone: From 2160	To 2220	Total Depth: 4658 - c/o 4615	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365	5-1/2" liner. 2339 - 4634
Shut-In Pressure, Casing, PSIG PC 858	PSIG - 12 - PSIA 870	Days Shut-In 15
Flowing Pressure: P 149	PSIG - 12 - PSIA 161	Shut-In Pressure, Tubing PSIG PC 858
Temperature: T 56	Gravity 0.85	Working Pressure: P _w PSIG 156
		Flow Through Casing 1.014
		Flow Through Tubing 0.646

Initial SIPT (MV) - 1055 psig; final - 1066 psig. 2" at 4551. Packer at 2379

CHOKE VOLUME = $Q = C \times P_c \times F_t \times F_g \times F_{pv}$

$$Q = 12.365 \times 161 \times 1.0039 \times .9645 \times 1.014 = 1955 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{756,900}{728,676} \right)^n \times 1.0387^{.85} \times 1955 = 1.0328 \times 1955$$

$$A_{of} = 2019 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
L. D. Galloway



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