

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 20, 1958

Operator El Paso Natural Gas		Lease San Juan 28-6 No. 84	
Location 1750S, 800E; 15-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool	
Casing Diameter 5-1/2	Set At Feet 3235	Tubing Diameter 1-1/4	Set At Feet 3176
Pay Zone From 3150	To 3202	Total Depth 3246 c/o 3210	Shut-in 6/2/58
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .75	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 1026	12 - PSIA 1038	Days Shut-in 18	Shut-In Pressure, Tubing, PSIG 1026
Flowing Pressure: P, PSIG 172	12 - PSIA 184		Working Pressure: P _w , PSIG 198
Temperature: T, F 65	F _g .85		Gravity .68

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

$$Q = 12.365 \times 184 \times .9952 \times .9393 \times 1.019 = 1753 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1077444}{1033344} \right)^n$$

$$1.0426^{.85} (1753) = 1.0361 (1753)$$

$$A_{of} = 1816 \text{ MCF/D}$$

TESTED BY Jess Goodwin

WITNESSED BY _____

Checked By Tom Grant

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