

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE June 16, 1960

Operator El Paso Natural Gas Company	Lease Jicarilla No. 8-C
Location 890S, 1140W; 16-25N-4W	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Plant So. Blanco P.C.
Casing Diameter 2-1/2 Set At: Feet 3674	Tubing Diameter No Tubing Set At: Feet -
Pay Zone: From 3614 To 3636	Total Depth 3680 c/o 3650 Shut In 6/9/60
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 959 PSIG 12 PSIA	Shut-In Pressure, Tubing - PSIG 12 PSIA
Flowing Pressure, P 106 PSIG 12 PSIA	Working Pressure, Pw Calc. PSIG 12 PSIA
Temperature 56 F 1.0039 .85	Flow From Tables 1.013 Gravity .729 Eq .9097

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

$$Q = 12.365 \times 118 \times 1.0039 \times .9097 \times 1.013$$

1350

MCF/D

OPEN FLOW $A_{of} = Q \left(\frac{P_r^2 - P_a^2}{F_t^2 P_a^2} \right)^n$

$$A_{of} = \left(\frac{942841}{919125} \right)^n \quad 1.0258^{.85} \times 1350 = 1.0219 \times 1350$$

A_{of} 1380

MCF/D

W. D. Dawson

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L. D. Galloway
L. D. Galloway by *[Signature]*