

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 21, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 109 (D)	
Location 8008, 1650W; 18-27-7		County Rio Arriba	State New Mexico
Formation Dakota		Pool Undesignated	
Casing Diameter 9-5/8	Set At: Feet 3103	Tubing Diameter 2"	Set At: Feet 7363
Pay Zone: From 7316	To 7457	Total Depth: 7560 c/o 7463	Shut In: 7/14/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	7" liner 3021 - 7127, 5-1/2 liner 7048-7525	
Shut-In Pressure, Casing, PSIG 926 (MV)	PSIA 938	Days Shut-in 7	Shut-In Pressure, Tubing, PSIG 2187 (Dak)
Flowing Pressure: P, PSIG 78	PSIA 90	Working Pressure: Pw, PSIG Calc.	PSIA 195
Temperature: T 66	F .75	Fpv (From Tables) 1.007	Gravity .630

Initial SIPT (MV) = 928 psig
Final SIPC (MV) = 932 psig

Packer at 6772

CHOKE VOLUME = Q C x P_c x F_p x F_g x F_{pv}

$$Q = 12.365 \times 90 \times .9943 \times .9759 \times 1.007 = 1087 \text{ MCF/D}$$

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

$$\text{Aof} = \left(\frac{4835601}{4797576} \right)^n \quad 1.0079^{.75} \times 1087 = 1.0059 \times 1087$$

Aof 1093 MCF/DTESTED BY S. V. RobertsWITNESSED BY Tom Smith (N.M.O.C.C.)

Lewis D. Galloway
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