

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 13, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 Unit No. 107 (P)	
Location 17508, 1650W; 11-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3418	Tubing: Diameter 1-1/4	Set At: Feet 3174
Pay Zone: From 5178	To 5192	Total Depth: 5636 o/o 5592	Shut In: 8/29/59
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 1043 (PC)	- 12 = PSIA 1055	Days Shut-In 45	Shut-In Pressure, Tubing PSIG 1015 (PC)	- 12 = PSIA 1027	
Flowing Pressure: P PSIG 131	- 12 = PSIA		Working Pressure: Pw PSIG 140	- 12 = PSIA 152	
Temperature: T °F 60	n =		Fpv (From Tables) 1.013	Gravity .631	

Initial SIPT (MV) = 1065 psig
Final SIPT (MV) = 1068 psig

Packer at 3185

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

$$Q = 12.365 \times 143 \times 1.0000 \times .9759 \times 1.013 = 1748 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1113025}{1089921} \right)^n = 1.0211^{.88} \times 1748 = 1.0179 \times 1748$$

$$Aof = 1779 \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____

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