

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 9, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 Unit No. 107 (M)	
Location 17508, 1650W; 11-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At: Feet 5634	Tubing: Diameter 2"	Set At: Feet 5462
Pay Zone: From 5432	To 5552	Total Depth 5636 c/o 5592	Shut In: 8/29/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 14.1605		5-1/2 liner 3358 - 5634	
Shut-In Pressure, Casing, PSIG (PC) 965	PSIG - 12 PSIA 977	Days Shut-In 11	Shut-In Pressure, Tubing, PSIG (MV) 1051	PSIG - 12 PSIA 1063	
Flowing Pressure, Casing, PSIG 196	PSIG - 12 PSIA 208		Working Pressure, Flow, PSIG Calc.	PSIG - 12 PSIA 458	
Temperature, Casing, °F 62	°F .75		Fpv (From Tables) 1.023	Gravity .694	

Initial SIPT (PC) = 965 psig

Packer at 3185

Final SIPT (PC) = 969 psig

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 14.1605 \times 208 \times .9981 \times .9325 \times 1.023 = 2804 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_1^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{1129969}{920205} \right)^n \quad 1.2279^{.75} \times 2804 = 1.1662 \times 2804$$

$$A_{of} = 3270 \text{ MCF/D}$$

TESTED BY W. D. DawsonWITNESSED BY T.J. Smith (NMOCC)

Lewis D. Galloway
L. D. Galloway