

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 4, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 104 (PC)	
Location 8008, 1150W; Sec. 3-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3506	Tubing: Diameter 1-1/4	Set At: Feet 3354
Pay Zone: From 3274	To 3326	Total Depth: c/o 5696b	Shut In: 8/6/59
Stimulation Method Sand Water Frac.		Flow Through: Casing	Flow Through: Tubing X

Choke Size, Inches .75		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 1009 (PC)	PSIG - 12 PSIA 1021	Days Shut-In 29	Shut-In Pressure, Tubing, PSIG (PC) 1010
Flowing Pressure, P, PSIG 94	PSIG - 12 PSIA 106		Working Pressure: P _w , PSIG 516
Temperature: T, °F 46			Gravity .675
			Flow Through: Tubing X

Initial SIPT (MV) = 1023 psig

Packer at 5405

Final SIPT (MV) = 1021 psig

CHOKE VOLUME = Q C x P_i x F_i x F_g x F_{pv}

$$Q = 14.1605 \times 106 \times 1.0137 \times .9427 \times 1.010 = 1449 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1044484}{765700} \right)^n \quad 1.3640^{.85} \times 1449 = 1.3020 \times 1449$$

$$A_{of} = 1887 \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____

Lewis D. Galloway
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