

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 28, 1959

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 33-13 (M)	
Location 800N, 1145E, 13-29-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 7676	Tubing: Diameter 1-1/4	Set At: Feet 5713
Pay Zone: From 5355	To 5804	Total Depth: 8081 c/o 8033	Shut In: 9/14/59
Stimulation Method Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant, C 12.365			
Shut-In Pressure, Casing (MV) 1019	PSIG	+ 12 = PSIA 1031	Days Shut-In 14	Shut-In Pressure, Tubing (MV) 1015	PSIG
Flowing Pressure: P 370	PSIG	+ 12 = PSIA 382		Working Pressure: Pw 401	PSIG
Temperature: T 70	°F	n = .75		Fpv (From Tables) 1.041	Gravity .680

Initial SIPT (D) = 2425psig
Final SIPT (D) = 2447psig

Packer at 7450'

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

$$Q = 12.365 \times 382 \times .9905 \times .9393 \times 1.041 = 4575 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,062,961}{892,392} \right)^n = 1.1911^{.75} \times 4575 = 1.1400 \times 4575$$

$$A_{of} = 5216 \text{ MCF/D}$$

TESTED BY W. D. DawsonWITNESSED BY C. R. Wagner (PNW)

Lewis D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

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