

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 27, 1959

Operator El Paso Natural Gas Company		Lease San Juan 30-5 Unit No. 27-20 (M)	
Location 1090S, 890W; 20-30-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7	Set At: Feet 7504	Tubing Diameter 1-1/4	Set At: Feet 5612
Pay Zone: From 5162	To 5648	Total Depth 7890 c/o 7710	Shut In: 10/28/59
Stimulation Treatment Sand Water Frac.		Flow Through Casing X	

Choke Size: Inches .75	Choke Constant 12.365	Shut-In Pressure: psig (MV) 1115	PSIG 1127	PSIA 30	Shut-In Pressure: psig (MV) 1115	PSIG 1127	PSIA 1127
Flowing Pressure: psig (MV Csg) 183	PSIG 195	PSIA 195	Flowing Pressure: psig (MV) Tbg, 207	PSIG 219	PSIA 219	Flowing Pressure: psig 1.018	PSIG .648
Temperature: F 64	F .75	Temperature: F 64	F .75	Temperature: F 64	F .75	Temperature: F 64	F .75

Initial SIPT (D) = 2576 psig
Final SIPT (D) = 2583 psig

Packer at 7397 = Baker "D"

CHOKE VOLUME = $Q_c \times D_c \times F_c \times F_g \times F_{pv}$

$$Q_c = 12.365 \times 195 \times .9962 \times .9645 \times 1.018 = 2358 \text{ MCF/D}$$

OPEN FLOW

$$A_{of} = \left(\frac{p_i - p_{wf}}{p_i - p_o} \right)^n$$

$$A_{of} = \left(\frac{1270129}{1222168} \right)^n$$

$$1.0392^{.75} \times 2358 = 1.0292 \times 2358$$

$$A_{of} = 2427 \text{ MCF/D}$$

TESTED BY W. D. DawsonWITNESSED BY W. Smith, C. Wagner

L. D. Galloway
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