

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE

August 7, 1958

Operator El Paso Natural Gas		Lease San Juan 27-5 Unit 31 (M)	
Location 990N, 990E; 24-27-5		State New Mexico	
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At Feet 5836	Tubing Diameter 2"	Set At Feet 5746
Pay Zone: From 5162	To 5744	Total Depth 5831	Shut-in 7/20/58
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Coefficient 12.365	5-1/2 liner 3670 - 5836
Shut-in Pressure, Casing 839 (PC)	PSIG 12 PSIA 851	Shut-in Pressure, Tubing 1037 (MV)
Flowing Pressure, P 261	PSIG 12 PSIA 273	Working Pressure, P Calc.
Temperature, T 67	.75	Flow (From Tables) 1.028
		Gravity .674

Initial SIPT (PC) 839 psig
Final SIPC (PC) 844 psig

Packer at 3550

CHOKE VOLUME = $Q \times C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = 12.365 \times 273 \times .9933 \times 9463 \times 1.028$$

3262

MCF/D

$$\text{OPEN FLOW } Q = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$Q = \left(\frac{1100401}{796800} \right)^{.78}$$

$$1.3810^{.78} (3262) = 1.2738 (3262)$$

Adf 4155 MCF/D



BY M. W. Rischard

WITNESSED BY Fred Cook

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