

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 28, 1958

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 13 (M)	
Location 1800N, 1500E; 20-27-4		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8"	Set At: Feet 3782	Tubing: Diameter 2"	Set At: Feet 5896
Pay Zone: From 5780	To 5934	Total Depth: 5975 c/o 5950	Shut-In 1-10-58 Flow Through Tubing X
Stimulation Method Sand Water Frac.		Flow Through Casing	

Choke Size, inches .75	Choke Constant: C 12.365			5-1/2" liner 3735 - 5972	
Shut-In Pressure, Casing, PSIG (PC) 1006	- 12 = PSIA 1018	Days Shut-In 108 (MV)	Shut-In Pressure, Tubing PSIG (MV) 1094	- 12 = PSIA 1106	
Flowing Pressure: P PSIG (MV) 368	- 12 = PSIA 380		Working Pressure: Pw PSIG (Calc.) 783	- 12 = PSIA	
Temperature: T °F 64	.75		Fpv (From Tables) 1.041	Gravity .672	

Final SIPC (PC) 1010 PSIG

1-1/4 at 3660 Packer at 3769

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

$$Q = (12.365) (380) (.9962) (.9463) (1.041) = \underline{4611} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,223,236}{610,147} \right)^n = (2.0048)^{.75} (4611) = (1.6850) (4611)$$

$$Aof = \underline{7,770} \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY: _____

Lewis D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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