

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 1, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 166	
Location 810/S, 875/W, Sec. 1 T 27N, R 6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7748	Tubing: Diameter 1.900	Set At: Feet 7680
Pay Zone: From 7498	To 7708	Total Depth: 7748	Shut In 7-22-72
Stimulation Method S.W.F.		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2686	+ 12 = PSIA 2698	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2441	+ 12 = PSIA 2453	
Flowing Pressure: P PSIG 444	+ 12 = PSIA 456		Working Pressure: P <sub>w</sub> PSIG 632	+ 12 = PSIA 644	
Temperature: T = 76 °F	n = .75		F <sub>pv</sub> (From Tables) 1.037	Gravity .620	F <sub>g</sub> = .9837

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(456)(.9850)(.9837)(1.037) = \underline{5665} \text{ MCF/D}$$

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

NOTE: Well produced light to medium mist of water throughout the test.

$$Aof = \left( \frac{7279204}{6864468} \right)^n = (5665)(1.0604)^{.75} = (5665)(1.0450)$$

$$Aof = \underline{5920} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY \_\_\_\_\_

*J. A. Jones*  
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