

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 12, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 100 (OWWO)	
Location 1000'S, 1850'W, Section 13, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7868	Tubing: Diameter 2.0625 2.375	Set At: Feet 227 Total 7496 7723
Pay Zone: From 7550	To 7802	Total Depth: 7868	Shut In 5-5-65
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365	Baker Model "P" Packer set at 7496 ft.	
Shut-In Pressure, Casing, PSIG Less than 50 lbs.	+ 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1237
Flowing Pressure: P PSIG 210	+ 12 = PSIA 222	Working Pressure: Pw Calc.	+ 12 = PSIA 494
Temperature: T = 77 °F	n = .75	Fpv (From Tables) 1.023	Gravity .700
F _t = .9840	F _g = .9258		

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

$$Q = (12.365) (222) (.9840) (.9258) (1.023) = 2,558 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,560,001}{1,315,965} \right)^n = (2558) (1.1854)^{.75} = (2558) (1.1361)$$

$$Aof = 2906 \text{ MCF/D}$$

TESTED BY R. F. Headrick

CALCULATED BY H. E. McAnally

CHECKED BY W. D. Dawson



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