

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 22, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit 191	
Location 890'S, 1780'E, Section 33, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2	Set At: Feet 7837	Tubing: Diameter 1-1/2	Set At: Feet 7757
Pay Zone: From 7553	To 7780	Total Depth: 7837	Shut In 5-4-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2567	PSIG	+ 12 = PSIA 2579	Days Shut-In 18	Shut-In Pressure, Tubing 929	PSIG
Flowing Pressure: P 207	PSIG	+ 12 = PSIA 219		Working Pressure: P <sub>w</sub> 392	PSIG
Temperature: T = 71 °F	F <sub>t</sub> = .9896	n = .75		F <sub>pv</sub> (From Tables) 1.020	Gravity .650 F <sub>g</sub> = .9608

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

$$Q = (12.365) (219) (.9896) (.9608) (1.020) = \underline{2626} \text{ MCF/D}$$

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

NOTE: Well produced medium to heavy mist throughout test.

$$Aof = Q \left( \frac{6651241}{6488025} \right)^n = (2626) (1.0252)^{.75} = (2626) (1.0188)$$

$$Aof = \underline{2676} \text{ MCF/D}$$

TESTED BY Bobby Broughton

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



*William D. Welch*  
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