

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 2, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 183	
Location 1840'N, 1565'E, Section 18, T27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2	Set At: Feet 7612	Tubing: Diameter 1-1/2	Set At: Feet 7563
Pay Zone: From 7375	To 7588	Total Depth: 7612	Shot In 6-12-73
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 7.0		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2760	+ 12 = PSIA 2772	Days Shut-In 21	Shut-In Pressure, Tubing, PSIG 2564
Flowing Pressure: P, PSIG 493	+ 12 = PSIA 505	Working Pressure: Pw, PSIG 741	+ 12 = PSIA 753
Temperature: T = 74 °F	Fg = .9868	Fpv (From Tables) 1.043	Gravity .620 Fg = .9837

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

$$Q = (12.365) (510) (.9868) (.9837) (1.043) = 6385 \text{ MCF/D}$$

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

NOTE: Well produced a medium mist of water throughout test.

$$Aof = Q \left(\frac{7683984}{7116975} \right)^n = (6385) (1.0797)^{.75} = (6385) (1.0592)$$

$$Aof = 6763 \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY



William D. Welch
William D. Welch, Well Test Engineer