

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 193	
Location 915'S, 1170'W, Section 28, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2	Set At: Feet 7798	Tubing: Diameter 1-1/2	Set At: Feet 7725
Pay Zone: From 7540	To 7755	Total Depth: 7798	Shut In 5-23-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2348	+ 12 = PSIA 2360	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1798	+ 12 = PSIA 1810	
Flowing Pressure: P PSIG 276	+ 12 = PSIA 288		Working Pressure: Pw PSIG 602	+ 12 = PSIA 614	
Temperature: T = 79 °F	n = .75		Fpv (From Tables) 1.025	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 288 \times .9822 \times .9608 \times 1.026 = 3448 \text{ MCF/D}$$

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

NOTE: Blew very heavy fog of water and light hydrocarbons.

$$Aof = Q \left(\frac{5569600}{5192604} \right)^{.75} = (3448)(1.0726)^{.75} = (3448)(1.0540)$$

$$Aof = 3634 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY

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