

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-6-70

Operator El Paso Natural Gas Co.		Lease San Juan 29-6 Unit No. 99	
Location 900N, 1150E, S34, T-29N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7762	Tubing: Diameter 1.900	Set At: Feet 7690
Pay Zone: From 7530	To 7700	Total Depth: 7762	Shut In 3-27-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Cons' int: C 12.365			
Shut-In Pressure, Casing, PSIG 2695	+ 12 = PSIA 2707	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2661	+ 12 = PSIA 2693	
Flowing Pressure: P PSIG 294	+ 12 = PSIA 306		Working Pressure: Pw PSIG 429	+ 12 = PSIA 441	
Temperature: T = 77 °F	Ft = .9840	n = .750	Fpv (From Tables) 1.0260	Gravity .650	Fg = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(306)(.9840)(.9608)(1.0260) = \underline{3670} \text{ MCF/D}$$

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

Note: Heavy fog of dist. and water for 7 min.
then light to med. fog throughout test.

$$Aof = \left(\frac{7327849}{7133368} \right)^n = (3670)(1.0272)^{.75} = (3670)(1.0203)$$

$$Aof = \underline{3745} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____



H. L. Kendrick
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