

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-23-70

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit No. 86 OWWO	
Location 1850 S, 905 W, S 17, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6038	Tubing: Diameter 2.375	Set At: Feet 5965
Pay Zone: From 2250	To 6000	Total Depth: 6038	Shut In 6-5-70
Stimulation Method None		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .710		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 869	+ 12 = PSIA 881	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 869	+ 12 = PSIA 881	
Flowing Pressure: P PSIG 320	+ 12 = PSIA 332		Working Pressure: Pw PSIG 800	+ 12 = PSIA 812	
Temperature: T = 64 °F	n = .75		Fpv (From Tables) 1.042	Gravity .710	Fg = .9193

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

$$Q = 12.365 \times 332 \times .9962 \times .9193 \times 1.042 = 3917 \text{ MCF/D}$$

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

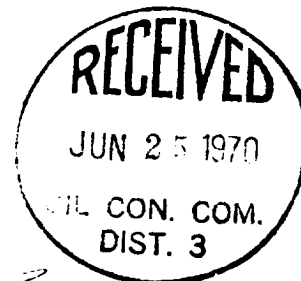
Note: the well produced a medium fog of dist. and water throughout the test.

$$Aof = \left(\frac{776161}{116817} \right)^n = 3917 \times 6.6442^{.75} = 3917 \times 4.1384$$

$$Aof = 16,210 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



H. L. Kendrick
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