

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-24-70

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit No. 50	
Location 990 S, 990 W, S 22, T30N, R6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6085	Tubing: Diameter 2.375	Set At: Feet 5966
Pay Zone: From 5244	To 5964	Total Depth: 6085	Shut In 8-17-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 695	+ 12 = PSIA 707	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 692	+ 12 = PSIA 704	
Flowing Pressure: P PSIG 196	+ 12 = PSIA 208		Working Pressure: Pw PSIG 557	+ 12 = PSIA 569	
Temperature: T = 74 °F	Ft = .9868	n = .75	Fpv (From Tables) 1.019	Gravity .660	Fg = .9535

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

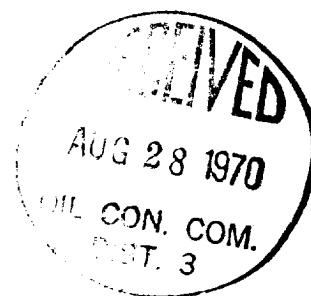
$$Q = 12.365 \times 208 \times .9868 \times .9535 \times 1.019 = 2466 \text{ MCF/D}$$

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

Note: Well unloaded heavy liquid 3 min. after start of blow. Light fog of water throughout rest of test.

$$Aof = \left(\frac{499849}{176088} \right)^n = 2466(2.8386)^{.75} = 2466(2.1869)$$

$$Aof = 5393 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

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