

OPEN FLOW TEST DATA

DATE 8-10-70

Operator El Paso Natural Gas Co.		Lease San Juan 30-6 Unit No. 4-Y	
Location 1600 N, 1600 E, S 35, T30N, R6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6135	Tubing: Diameter 2.375	Set At: Feet 6049
Pay Zone: From 5502	To 6060	Total Depth: 6135	Shut In 8-1-70
Stimulation Method GWE		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 830	+ 12 = PSIA 842	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 544	+ 12 = PSIA 556	
Flowing Pressure: P PSIG 215	+ 12 = PSIA 227		Working Pressure: Pw PSIG 693	+ 12 = PSIA 705	
Temperature: T = 65 °F	n = .75		Fpv (From Tables) 1.021	Gravity .657	Fg = .9556

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

$$Q = 12.365 \times 227 \times .9952 \times .9556 \times 1.021 = 2725 \text{ MCF/D}$$

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

Note: Unloaded frac water then blew dry gas throughout the test.

$$Aof = \left(\frac{708964}{211939} \right)^n = (3.3451)^{.75} 2725 = 2.4734 \times 2725$$

$$Aof = 6740 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY



R. E. Stauffer