

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10-15-70

Operator El Paso Natural Gas Company		Lease Dawson No. 1 (OWWO)	
Location 1750' S, 1175' W, S 30, T31N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6024'	Tubing: Diameter 2.375	Set At: Feet 5960
Pay Zone: From 5198	To 5958'	Total Depth: 6024	Shut In 10-8-70
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 646	+ 12 = PSIA 658	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 383	+ 12 = PSIA 395	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 142		Working Pressure: Pw PSIG 408	+ 12 = PSIA 420	
Temperature: T = 64 °F	Ft = .9962	n = .75	Fpv (From Tables) 1.013	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 142 \times .9962 \times .9608 \times 1.013 = 1702 \text{ MCF/D}$$

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

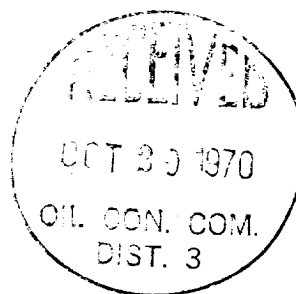
Note: blew heavy fog of water and light hydrocarbons.

$$Aof = \left(\frac{432964}{256564} \right)^n = (1.6875)^{.75} (1702) = 1.4806 \times 1702$$

$$Aof = 2520 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



H. L. Kendrick
H. L. Kendrick