

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11-22-66

Operator EL PASO NATURAL GAS COMPANY		Lease Ge-Ele-Gu-Lith-E No. 2	
Location 1500'S, 800'W, Sec. 7, T-26-N, R-8-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6568	Tubing: Diameter 2.375	Set At: Feet 6453
Pay Zone: From 6051	To 6458	Total Depth: 6570	Shut In 11-18-66
Stimulation Method Sand Water Prec		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2161	+ 12 = PSIA 2173	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2158	+ 12 = PSIA 2170	
Flowing Pressure: P PSIG 500	+ 12 = PSIA 512		Working Pressure: P _w PSIG 1126	+ 12 = PSIA 1138	
Temperature: T = 86 °F	Ft = .9759	n = .75	Fpv (From Tables) 1.053	Gravity .700	Fg = .9258

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

$$Q = (12.365)(512)(.9759)(.9258)(1.053) = 6023 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4721929}{3426885} \right)^n = (6023)(1.3779)^{.75} = (6023)(1.2719)$$

$$Aof = 7661 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY T. B. Grant

CALCULATED BY A. J. Loleit



H. L. Kendrick
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