

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-2-71

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 158	
Location 1190' N, 1450' E, S 23, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7985	Tubing: Diameter 1.990	Set At: Feet 7882
Pay Zone: From 7678	To 7884	Total Depth: 7985	Shut In 6-21-71
Stimulation Method S W F		Flow Through Casing XXXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2440	+ 12 = PSIA 2452	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2457	+ 12 = PSIA 2469	
Flowing Pressure: P PSIG 218	+ 12 = PSIA 230		Working Pressure: P _w PSIG 463	+ 12 = PSIA 475	
Temperature: T = 70 °F Ft = .9905	n = .75		F _{pv} (From Tables) 1.021	Gravity .650 Fg = .9608	

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

$$Q = 12.365 \times 230 \times .9905 \times .9608 \times 1.021 = \underline{2763} \text{ MCF/D}$$

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

Note: Well blew light spray of water and distillate throughout test.

$$Aof = \left(\frac{6095961}{5870336} \right)^n = 2763(1.0384)^{.75} = 2763(1.0286)$$

$$Aof = \underline{2842} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____

H. L. Kendrick
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