

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-26-70

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 118	
Location 1600 S, 1815 W, S 22, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7822	Tubing: Diameter 1.900	Set At: Feet 7745
Pay Zone: From 7533	To 7756	Total Depth: 7822	Shut In 5-25-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2575	+ 12 = PSIA 2587	Days Shut-In 32	Shut-In Pressure, Tubing PSIG 2220	+ 12 = PSIA 2232	
Flowing Pressure: P PSIG 301	+ 12 = PSIA 313		Working Pressure: P _w PSIG 645	+ 12 = PSIA 657	
Temperature: T = 78 °F F _t = .9831	n = .75		F _{pv} (From Tables) 1.028	Gravity .650 F _g = .9608	

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

$$Q = 12.365 \times 313 \times .9831 \times .9608 \times 1.028 = 3751 \text{ MCF/D}$$

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

Note: Blew light fog of water 3 hours.

$$Aof = \left(\frac{6692569}{6260920} \right)^n = (1.0689)^{.75} (3751) = (1.0512)(3751)$$

$$Aof = 3943 \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY



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