

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 1, 1965

Operator El Paso Natural Gas Company		Lease Neil No. 2 (OWO)	
Location 1550'N, 990'E, Sec. 15, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5168	Tubing: Diameter 2.375	Set At: Feet 5076
Pay Zone: From 5036	To 5126	Total Depth: 5168	Shut In 11-23-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 793	+ 12 - PSIA 805	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 793
Flowing Pressure: P PSIG 220	+ 12 - PSIA 232	Working Pressure: P _w PSIG 706	+ 12 - PSIA 718
Temperature: T: 83 °F	F _t = .9786	F _p (From Tables) 1.028	Gravity F _g = .8944

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

$$Q = (12.365) (232) (.9786) (.8944) (1.028) = 2581 \text{ MCF/D}$$

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

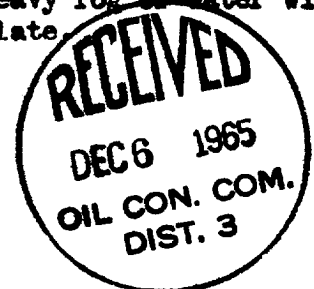
$$Aof = \left(\frac{48,005}{132,501} \right)^n = (2581) (4.8907)^{.75} = (2581) (3.2897)$$

NOTE: Blew very heavy fog of water with some distillate.

$$Aof = 8491 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

CHECKED BY Tom B. Grant



Lewis D. Galloway
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