

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 8, 1969

Operator El Paso Natural Gas Company		Lease Vaughn No. 9	
Location 8008, 1060W, S26-T26H-R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.375	Set At: Feet 3662	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3520	To 3626	Total Depth: 3662	Shut In 7-28-69
Stimulation Method Sand water frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 923	+ 12 = PSIA 103	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 91	+ 12 = PSIA 103	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 133		
Temperature: T = 63° °F	n = 0.75	F _{pv} (From Tables) 1.010	Gravity .650	F _g = .9608	

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

$$Q = 12.365 \times 103 \times .9971 \times 1.010 \times .9608 = \underline{1232} \text{ MCF/D}$$

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

Note: Well blew light fog of water throughout test.

$$Aof = \left(\frac{883,600}{865,835} \right)^n = (1.0205)^{.75} 1232 = 1.0152 (1232)$$

$$Aof = \underline{1251} \text{ MCF/D}$$

TESTED BY BJBCalculated
WITNESSED BY RES

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