

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 3, 1969

Operator El Paso Natural Gas		Lease San Juan 29-7 Unit No. 90 (OWWO)	
Location 790N, 1850E S-5, T-29N, R-7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5446	Tubing: Diameter 2.375	Set At: Feet 5250
Pay Zone: From 4696	To 5400	Total Depth: 5446	Shut In 6-26-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 964	+ 12 = PSIA 976	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 969	+ 12 = PSIA 981	
Flowing Pressure: P PSIG 336	+ 12 = PSIA 348		Working Pressure: P _w PSIG 864	+ 12 = PSIA 876	
Temperature: T = 87 °F	n = .75		F _{pv} (From Tables) 1.035	Gravity .700 F _g = .9258	

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

$$Q = (12.365)(348)(.9750)(.9258)(1.035) = 4020 \text{ MCF/D}$$

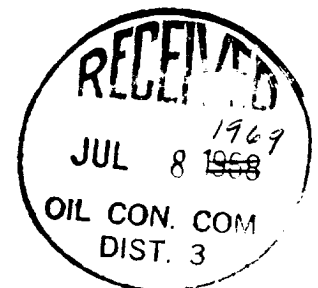
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{962361}{194985} \right)^n = (4.9355)^{.75} 4020 = 3.3112 (4020)$$

Note: Very slight trace of light hydrocarbons.

$$Aof = 13,311 \text{ MCF/D}$$

TESTED BY RFH
Calc.
WITNESSED BY RF & RES



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