

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 18, 1966

Operator El Paso Natural Gas Company		Lease Lackey B No. 20	
Location Q40'E, S20'E, Section 29, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2247	Tubing: Diameter No Tubing	Set At: Feet -
Pay Zone: From 2151	To 2188	Total Depth: 2280	Shut In 7-09-66
Stimulation Method Sand Water Free		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-in Pressure, Casing, PSIG 630	+ 12 = PSIA 642	Days Shut-in 9	Shut-in Pressure, Tubing PSIG No Tubing	+ 12 = PSIA -	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 142	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 169		
Temperature: T = 67 °F	F _t = .9933	n = .85	F _{pv} (From Tables) 1.014	Gravity .670	F _g = .9463

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

$$Q = (12.365) (142) (.9933) (.9463) (1.014) = 1674 \text{ MCF/D}$$

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

$$Aof = \left(\frac{412,164}{383,603} \right)^n = (1.0744)^{.85} (1674) = (1.0630) (1674)$$

$$Aof = 1779 \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinWITNESSED BY Clarence R. WagnerCHECKED BY Tom B. Grant

H. L. Kendrick
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