

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 16, 1968

Operator El Paso Natural Gas Company		Lease Mudge No. 29	
Location 1800'S, 890'E, Sec. 10, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Artec	
Casing: Diameter 2.675	Set At: Feet 2922	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 2820	To 2844	Total Depth: 2922	Shut In 7-19-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 282	+ 12 = PSIA 294	Days Shut-In 28	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 280	+ 12 = PSIA 292	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 300		
Temperature: T = 66 °F	F _t = .9924	n = .35	F _{pv} (From Tables) 1.022	Gravity .650	F _g = .9603

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

$$Q = (12.365)(292)(.9924)(.9603)(1.022) = \underline{2892} \text{ MCF/D}$$

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

$$Aof = \left(\frac{910116}{820116} \right)^n = (2892)(1.1097)^{.85} = (2892)(1.0924)$$

Note: The well produced a light mist of water throughout the test.

$$Aof = \underline{3159} \text{ MCF/D}$$

TESTED BY Bobby Broughton
Checked
WITNESSED BY T. B. Grant

H. L. Kendrick
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