

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 10, 1967

Operator El Paso Natural Gas Company		Lease Neudecker No. 4	
Location 10°10'N, 99°0'W, Sec. 14, T-29-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Antec	
Casing: Diameter 2.445	Set At: Feet 2192	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2110	To 2152	Total Depth: 2240	Shut In 8-3-67
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Comp.	
Shut-In Pressure, Casing, PSIG 603	+ 12 = PSIA 615	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 170	+ 12 = PSIA 182	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 217		
Temperature: T = 69 °F	Ft = .9915	n = .85	Fpv (From Tables) 1.017	Gravity .650	Fg = .9608

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

$$Q = (12.365)(182)(.9915)(.9608)(1.017) = \underline{2180} \text{ MCF/D}$$

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

$$Aof = \left(\frac{378,225}{331,136} \right)^n = (2180)(1.1422)^{.85} = (2180)(1.1198)$$

NOTE: The well produced dry gas throughout the test.

$$Aof = \underline{2441} \text{ MCF/D}$$

TESTED BY D. R. RobertsCALCULATED
WITNESSED BY H. E. McAnally

H. L. Kendrick
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