

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 16, 1968

Operator El Paso Natural Gas Company		Lease Case No. 10	
Location 900'N, 1550' 1555'W, Sec. 19, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.675	Set At: Feet 2682	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 2550	To 2588	Total Depth: 2682	Shut In 8-1-68
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 682	+ 12 = PSIA 694	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 148	+ 12 = PSIA 160		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 196	
Temperature: T = 72 °F	n = .85		Fpv (From Tables) 1.013	Gravity .650	Fg = .9603

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

$$Q = (12.365)(160)(.9887)(.9603)(1.013) = 1904 \text{ MCF/D}$$

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

$$Aof = \left(\frac{481656}{443220} \right)^n = (1904)(1.0866)^{.85} = (1904)(1.0731)$$

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

$$Aof = 2043 \text{ MCF/D}$$

TESTED BY Bobby Broughton

Checked by T. Grant



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