

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE October 7, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 43	
Location 1750'N, 990'E, Sec. 17, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8258	Tubing: Diameter 2.375	Set At: Feet 7981
Pay Zone: From 8014	To 8219	Total Depth: 8258	Shut In 9-29-68
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2541	+ 12 = PSIA 2553	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2552	+ 12 = PSIA 2564	
Flowing Pressure: P PSIG 235	+ 12 = PSIA 247		Working Pressure: P <sub>w</sub> PSIG 930	+ 12 = PSIA 942	
Temperature: T = 79 °F	F <sub>t</sub> = .9822	n = .75	F <sub>p</sub> (From Tables) 1.023	Gravity .670	F <sub>g</sub> = .9463

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

$$Q = (12.365)(247)(.9822)(.9463)(1.023) = \underline{2904} \text{ MCF/D}$$


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

$$Aof = \left( \frac{6574096}{5686732} \right)^n = (2904)(1.1560)^{.75} = (2904)(1.1149)$$

NOTE: The well produced a heavy fog of distillate and water throughout the test.

$$Aof = \underline{3238} \text{ MCF/D}$$

TESTED BY Don NortonCALCULATED BY Hermon E. McAnallyWITNESSED BY Hermon E. McAnally

  
H. L. Kendrick  
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