

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 22, 1967

Operator El Paso Natural Gas Company		Lease Duff No. 3	
Location T-30-I, S-9-W, Sec. 9, T-30-I, R-9-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Mesa Verde	
Casing: Diameter 2.575	Set At: Feet 3149	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 3030	To 3037	Total Depth: 3165	Shut In 9-19-67
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 835	+ 12 = PSIA 847	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 159	+ 12 = PSIA 171	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA	216	
Temperature: T = 63 °F	n = .85	Fpv (From Tables) 1.015	Gravity .650	Fg = .9603	

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

$$Q = (12.365)(171)(.9971)(.9603)(1.015) = \underline{2056} \text{ MCF/D}$$

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

$$Aof = \left(\frac{717409}{670753} \right)^n = (2056)(1.0695)^{.85} = (2056)(1.0588)$$

NOTE: Well Blew Dry Gas throughout the Test.

$$Aof = \underline{2177} \text{ MCF/D}$$

TESTED BY Dennie RobertsCHECKED BY H. E. McAnally

H. L. Kendrick
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