

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 12, 1966

Operator EL PASO NATURAL GAS COMPANY		Lease Newberry No. 13	
Location 1450'S, 1450'W, Sec. 17, T-31-N, R-12-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Elanco	
Casing: Diameter 7.000	Set At: Feet 2564	Tubing: Diameter 2.375	Set At: Feet 4879
Pay Zone: From 4710	To 4925	Total Depth: 4950	Shut In 12-5-66
Stimulation Method Solid Water Drive		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		4 1/2" liner 2880 to hole	
Shut-In Pressure, Casing, PSIG 907	+ 12 = PSIA 930	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 904	+ 12 = PSIA 916	
Flowing Pressure: P PSIG 305	+ 12 = PSIA 337		Working Pressure: Pw PSIG 759	+ 12 = PSIA 771	
Temperature: T = 74 °F	n = Ft = .9868		Fpv (From Tables) 1.033	Gravity .675	Fg = .9427

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

$$Q = (12.365)(337)(.9868)(.9427)(1.033) = 4004 \text{ MCF/D}$$

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

$$Aof = \left(\frac{881721}{287280} \right)^n = (4004)(3.0692)^{.75} = (4004)(2.3187)$$

NOTE: Very light mist of light colored hydrocarbons blew throughout the test.

$$Aof = 9284 \text{ MCF/D}$$

TESTED BY R. F. HendrickWITNESSED BY A. J. Lolait

H. L. Hendrick
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