

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10-20-66

Operator El Paso Natural Gas Company		Lease Turner B Com J No. 16	
Location 1840'S, 1840'W, Sec. 2, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6931	Tubing: Diameter 2.375	Set At: Feet 6825
Pay Zone: From 6664	To 6854	Total Depth: 6932	Shut In 10-13-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Top Tubing Perf. at 6789'.	
Shut-In Pressure, Casing, PSIG 2060	+ 12 = PSIA 2072	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2053	+ 12 = PSIA 2065	
Flowing Pressure: P PSIG 304	+ 12 = PSIA 316		Working Pressure: Pw PSIG 1135	+ 12 = PSIA 1147	
Temperature: T = 60 °F	F _r = 1.000	n = .75	F _{pv} (From Tables) 1.040	Gravity .725	F _g = .9097

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

$$Q = (12.365)(316)(1.000)(.9097)(1.040) = \underline{3697} \text{ MCF/D}$$

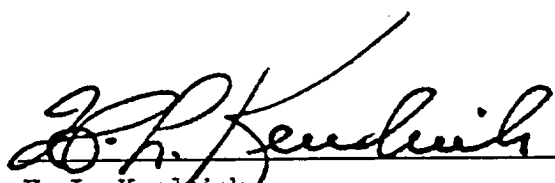
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{4293184}{2977575} \right)^n = (3697)(1.4418)^{.75} = (3697)(1.3158)$$

NOTE: Spray of distillate and water immediately and remained throughout test.

$$Aof = \underline{4865} \text{ MCF/D}$$

TESTED BY A. J. LoleitCHECKED BY H. E. McAnally


H. L. Kendrick

