

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 11-23-66

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge No. 6 (OWO)	
Location 1033'S, 869'W, Sec. 11, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5284	Tubing: Diameter 2.375	Set At: Feet 5216
Pay Zone: From 4419	To 5242	Total Depth: 5284	Shut In 11-16-66
Stimulation Method Sand Water Trac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 862	+ 12 = PSIA 874	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 857
Flowing Pressure: P PSIG 355	+ 12 = PSIA 367	Working Pressure: P _w PSIG 791	+ 12 = PSIA 803
Temperature: T = 86 °F	n = F _t = .9759	F _{pv} (From Tables) 1.033	Gravity .670 F _g = .9463

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

$$Q = (12.365)(367)(.9759)(.9463)(1.033) = \underline{4329} \text{ MCF/D}$$

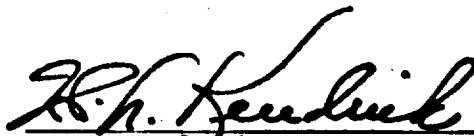
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{76.876}{11.067} \right)^n = (6.4155)^{.75}(4329) = (4329)(4.0241)$$

NOTE: The well produced a very light spray of hydrocarbon throughout the test.

$$Aof = \underline{17420} \text{ MCF/D}$$

TESTED BY R. F. Headrick
CHECKED
WITNESSED BY T. B. Grant



 H. L. Kendrick