

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10-20-66

Operator El Paso Natural Gas Company		Lease Sheets No. 1 (OWWO)	
Location 990'S, 1650'W, Sec. 28, T-31-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5567	Tubing: Diameter 2.375	Set At: Feet 5522
Pay Zone: From 4738	To 5537	Total Depth: 5567	Shut In 9-27-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" Plate, 4" Meter Run		Choke Constant: C 33.293		Tested Through 3/4" Variable Choke	
Shut-In Pressure, Casing, PSIG 858	+ 12 = PSIA 870	Days Shut-In	Shut-In Pressure, Tubing PSIG DEAD	+ 12 = PSIA	
Flowing Pressure: P PSIG 85 M.R., 190 W.H.	+ 12 = PSIA 97 M.R., 202 W.H.		Working Pressure: Pw PSIG 777	+ 12 = PSIA 789	
Temperature: T = 98 °F	n = .75		Fpv (From Tables) 1.007	Gravity .653	Fg = 1.2375

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

$$Q = \text{Calculated from Orifice Meter Reading} = 2234 \text{ MCF/D}$$

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

$$Aof = \left(\frac{756900}{134379} \right)^n = (2234)(5.6325)^{.75} = (2234)(3.6646)$$

NOTE: Heavy slug of water every 20 seconds throughout test. Well unloaded with large swabbing unit.

$$Aof = 8187 \text{ MCF/D}$$

TESTED BY R. F. Headrick & H. E. McAnally

CHECKED BY T. B. Grant

H. L. Kendrick
H. L. Kendrick

