

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 29, 1964

Operator El Paso Natural Gas Company		Lease Turner Federal No. 2 (OWMO)	
Location 1650'N, 1650'E, Sec. 13-30-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5582	Tubing: Diameter 2.375	Set At: Feet 5473
Pay Zone: From 4802	To 5538	Total Depth: 5609	Shut In 7-16-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 923	+ 12 = PSIA 935	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 525
Flowing Pressure: P PSIG 305	+ 12 = PSIA 317	Working Pressure: P _w PSIG 761	+ 12 = PSIA 773
Temperature: T = 75 °F	n = F _t = .9859	F _{pv} (From Tables) 1.028	Gravity .651 F _g = .9608

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

$$Q = (12.365)(317)(.9859)(.9608)(1.028) = \underline{3817} \text{ MCF/D}$$

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

$$Aof = \left(\frac{874,225}{276,696} \right)^n = (3817)(3.1595)^{.75} = (3817)(2.3695)$$

NOTE: Well unloaded after 5 minutes then blew a light vapor throughout the remainder of the test.

$$Aof = \underline{9044} \text{ MCF/D}$$

TESTED BY Jess Goodwin
Calculated
RECEIVED BY Hermon E. McNally

Checked by H. L. Kendrick



Lewis D. Galloway
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