

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 28, 1967

Operator El Paso Natural Gas Company		Lease Howell L No. 3 (OWWO)	
Location 990'S, 990'W, Sec. 35, T-30-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 5230	Tubing: Diameter 2.375	Set At: Feet 5127
Pay Zone: From 4473	To 5155	Total Depth: 5230	Shut In 9-15-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 858	+ 12 = PSIA 870	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 858	+ 12 = PSIA 870	
Flowing Pressure: P PSIG 349	+ 12 = PSIA 361		Working Pressure: P _w PSIG 774	+ 12 = PSIA 786	
Temperature: T = 75 °F	F _t = .9859	n = .75	F _{pv} (From Tables) 1.046	Gravity .750	F _g = .8944

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

$$Q = (361)(12.365)(.9859)(.8944)(1.046) = 4117 \text{ MCF/D}$$

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

$$Aof = \left(\frac{756900}{139104} \right)^n = (4117)(5.4412)^{.75} = (4117)(3.5627)$$

NOTE: Blew medium heavy fog of light distillate and water.

$$Aof = 14668 \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED
WITNESSED BY A. J. Loleit

H. L. Kendrick
