

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 17, 1962

Operator El Paso Natural Gas Company		Lease Riddle No. 1-A (OWO)	
Location 1650'N, 1650'E, Sec. 15-30-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.5	Set At: Feet 5507	Tubing: Diameter 2.375	Set At: Feet 5412
Pay Zone: From 5464	To 4928	Total Depth: 5510	Shut In 5-10-62
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 812	+ 12 - PSIA 824	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 810
Flowing Pressure: P, PSIG 180	+ 12 - PSIA 192		Working Pressure: P _w , PSIG 674
Temperature: T 87 F	n .9750		F _{pv} (From Tables) 1.016
	.75		Gravity .664 F _g .9535

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = (12.365)(192)(.9750)(.9535)(1.016) = 2242 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{678,976}{208,380} \right)^n = (2242)(3.2583)^{.75} = (2242)(2.4220)$$

$$A_{of} = 5430 \text{ MCF/D}$$

NOTE: Blew heavy water spray during entire test.TESTED BY W. D. Dawson

WITNESSED BY

Lewis D. Galloway
Lewis D. Galloway

