

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 24, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 88	
Location 1190'N, 800'E, Sec. 12-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3973	Tubing: Diameter 1.660	Set At: Feet 6010
Pay Zone: From 5468	To 5996	Total Depth: 6056 c/o 6010	Shut In 10-16-62
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" Liner 3878 - 6055	
Shut-In Pressure, Casing, PSIG 1106	+ 12 = PSIA 1118	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 1109	+ 12 = PSIA 1121	
Flowing Pressure: P, PSIG 363	+ 12 = PSIA 375		Working Pressure: Pw, PSIG 434	+ 12 = PSIA 446	
Temperature: T, °F 66	n .9943		Fpv (From Tables) 1.037	Gravity .650	Fg = .9608

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

$$Q = (12.365)(375)(.9943)(.9608)(1.037) = 4594 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,256,641}{1,057,725} \right)^n (1.1880)^{.75} (4594) = (1.1379)(4594)$$

Aof **5228** MCF/DNOTE: Flow clear gas.TESTED BY R. F. Headrick

WITNESSED BY _____

Checked by W. D. Dawson

Lewis D. Galloway
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