

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 27, 1963

Operator El Paso Natural Gas Company		Lease Turner-Hughes No. 13	
Location 1650'N, 1450'E, Sec. 11-27-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 4291	Tubing: Diameter 2.375	Set At: Feet 4450
Pay Zone: From 4372	To 4500	Total Depth: 4564	Shut In 1-1-63
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5 1/2" Liner 1176 - 4562	
Shut-In Pressure, Casing, 1074	PSIG · 12 = PSIA 1086	Days Shut-In 57	Shut-In Pressure, Tubing 1074	PSIG · 12 = PSIA 1086	
Flowing Pressure: P 342	PSIG · 12 = PSIA 354		Working Pressure: P _w 795	PSIG · 12 = PSIA 807	
Temperature: T 70 °F	F _t .9905		F _{pv} (From Tables) 1.033	Gravity 650	F _g .9608

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

$$Q = (12.365)(354)(.9905)(.9608)(1.033) = 4303 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,179,396}{528,147} \right)^n (2.2330)^{.75} (4303) = (4303)(1.8260)$$

NOTE: Light spray of water and distillate throughout test.

$$Aof = 7857 \text{ MCF/D}$$

TESTED BY Dannie R. Roberts

WITNESSED BY _____

Checked by: Tom B. Grant



Lewis D. Galloway
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