

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 15, 1966

Operator El Paso Natural Gas Company		Lease Hancock No. 3 (M) (OWO)	
Location 890'S, 990'W, Sec. 22, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 577	Tubing: Diameter 2.375	Set At: Feet 5637
Pay Zone: From 5274	To 5707	Total Depth: 5776	Shut In 8-8-66
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .750		Choke Constant: C 12.365		Baker Model "N" Packer set at 3350	
Shut-In Pressure, Casing, PSIG 407 (PC)	+ 12 = PSIA 419	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 650 (MV)	+ 12 = PSIA 662	
Flowing Pressure: P PSIG 110	+ 12 = PSIA 122		Working Pressure: P _w PSIG Calc. 243	+ 12 = PSIA	
Temperature: T = 60 °F	n = .750		F _{pv} (From Tables) 1.011	Gravity .650	F _g = .9608

ISIPT (PC) = 0 psig

FSIPT (PC) = 408 psig

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365)(1.000)(.9608)(1.011)$$

$$= 1465 \text{ MCF/D}$$

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

$$Aof = \left(\frac{438244}{379195} \right)^n = (1465)(1.1557)^{.75} = (1465)(1.1147) =$$

$$Aof = 1633 \text{ MCF/D}$$

NOTE: Light fog of water & distillate throughout test.

TESTED BY Jesse B. GoodwinCalculated
WITNESSED BY Tom B. GrantChecked by Al Loleit

H. L. Kendrick
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