

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE 11-10-66

Operator EL PASO NATURAL GAS COMPANY		Lease Allison Unit No. 11-X (MV) (OWWO)	
Location 917'N, 1086'E, Sec. 23, T-32-N, R-7-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5 1/2" liner 7.625	Set At: Feet 5563	5417-8475 Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 6010	To 6068	Total Depth: 8503	Shut In 10-25-66
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "F" Packer set at 6115	
Shut-In Pressure, Casing, PSIG 858 (MV)	+ 12 = PSIA 870 (MV)	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 1584 (DK)	+ 12 = PSIA 1596 (DK)
Flowing Pressure: P PSIG 227	+ 12 = PSIA 239		Working Pressure: P _w Calc. PSIG	+ 12 = PSIA 240
Temperature: T = 62 °F	F _t = .9981	n = .75	F _{pv} (From Tables) 1.016	Gravity .575 F _g = 1.021

ISIPT (DK) = 1584 psig
FSIPT (DK) = 1593 psig

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

$$Q = (12.365)(239)(.9981)(1.021)(1.016) = \underline{\quad 3060 \quad} \text{ MCF/D}$$

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

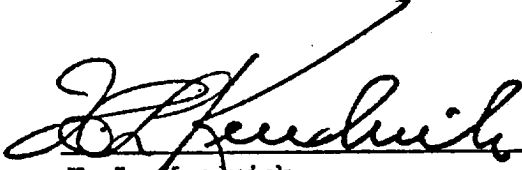
$$Aof = \left(\frac{756900}{699300} \right)^n = (3060)(1.0823)^{.75} = (3060)(1.0611)$$

$$Aof = \underline{\quad 3247 \quad} \text{ MCF/D}$$

TESTED BY D. R. Roberts

CHECKED BY T. B. Grant

CALCULATED BY H. E. McAnally


H. I. Kendrick