

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE 11-18-66

Operator EL PASO NATURAL GAS COMPANY		Lease Allison Unit No. 27 (NW) (OWO)	
Location 990'N, 990'E, Sec. 30, T-32-N, R-6-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 7829	Tubing: Diameter 1.660	Set At: Feet 5670
Pay Zone: From 5624	To 5694	Total Depth: 8044	Shut In 11-18-66
Stimulation Method Sand Water Prac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Packer Model D Packer set at 5740	
Shut-In Pressure, Casing, PSIG 1031 (NW)	+ 12 = PSIA 1043	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1031 (NW)	+ 12 = PSIA 1043	
Flowing Pressure: P PSIG 328	+ 12 = PSIA 340		Working Pressure: P _w PSIG 394	+ 12 = PSIA 396	
Temperature: T = 75 °F Ft = .9859	n = .75		Fpv (From Tables) 1.022	Gravity .595 Fg = 1.004	

ISIPT (DK) = 2192 psig

FSIPT (DK) = 2215 psig

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

$$Q = (12.365)(340)(.9859)(1.004)(1.022) = \underline{4253} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1037849}{931033} \right)^n = (4253)(1.1684)^{.75} = (4253)(1.1239)$$

NOTE: The well produced dry gas throughout the test.

$$Aof = \underline{4730} \text{ MCF/D}$$

TESTED BY Don NortonWITNESSED BY T. R. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
H. L. Kendrick