

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 25, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 88 (MV)	
Location 800'N, 1500'E, Section 23-27-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 4513	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 4400	To 4446	Total Depth: 6772	Shut In 5-12-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, (MV) 1104	PSIG	+ 12 = PSIA 1116	Days Shut-In 13	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 213	PSIG	+ 12 = PSIA 225		Working Pressure: P _w (Calc)	PSIG + 12 = PSIA 305
Temperature: T = 71 °F	F _t = .9896	n = .750		F _{pv} (From Tables) 1.024	Gravity .700 F _g = .9258

ISIPC (DK) = 2215 psig

FSIPC (DK) = 2225 psig

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

$$Q = (12.365) (225) (.9896) (.9258) (1.024) = 2610 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,245,456}{1,152,431} \right)^n = (2610) (1.0807)^{.75} - (2610) (1.0600)$$

$$Aof = 2767 \text{ MCF/D}$$

NOTE: Official Test

Blew heavy fog of water
and oil throughout test

TESTED BY T. B. Grant
 CHECKED BY
 WITNESSED BY W. D. Dawson



Lewis D. Galloway
 Lewis D. Galloway