

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 11, 1964

Operator La Plata Gathering System		Lease Huerfanito Unit No. 79 (DK)	
Location 1550'N, 790'E, Sec. 26, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 6812	Tubing: Diameter 2.6625	Set At: Feet 6348
Pay Zone: From 6445	To 6672	Total Depth: 6812	Shut In 11-27-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Packer set at 6346'	
Shut-In Pressure, Casing, 1085 (MV)	PSIG	+ 12 = PSIA 1097	Days Shut-In 14	Shut-In Pressure, Tubing 2060 (DK)	PSIG
Flowing Pressure: P 239	PSIG	+ 12 = PSIA 251		Working Pressure: P _w Calc.	PSIG
Temperature: T = 68 °F		n = .75		F _{pv} (From Tables) 1.028	Gravity .710
	F _t = .9924				F _g = .9193

ISIPT (MV) = 1085 psig

FSIPT (MV) = 1093 psig

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

$$Q = (12.365)(251)(.9924)(.9193)(1.028) = 2911 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,293,184}{3,815,703} \right)^n = (2911)(1.1251)^{.75} = (2911)(1.0925) = 3180 \text{ MCF/D}$$

NOTE: Blew heavy spray of distillate throughout test.

$$Aof = 3180 \text{ MCF/D}$$

TESTED BY Don Mortensen (EPNG)

WITNESSED BY Oliver Towell (La Plata)

CALCUALTED BY H. L. Kendrick

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