

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DW/L COMPLETION

DATE July 26, 1965

Operator EL Paso Natural Gas Company		Lease Huerfanito Unit No. 86 (MV)	
Location 1750'S, 1090'W, Section 36, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool: Blanco	
Casing: Diameter 5.500	Set At: Feet 6700	Tubing: Diameter 1.660	Set At: Feet 4430
Per Zone: From +354	To 4424	Total Depth: 6700	Shut in 7-3-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Packer set at 4610 ft. (Baker Model F)	
Shut-In Pressure, Casing, PSIG 1130	+ 12 = PSIA 1142	Days Shut-In 23	Shut-In Pressure, Tubing, PSIG 1130	+ 12 = PSIA 1142
Flowing Pressure: P, PSIG 435	+ 12 = PSIA 447		Working Pressure: P _w , PSIG 538	+ 12 = PSIA 550
Temperature: T = 79 °F	F _t = .9822	n = .75	F _{pv} (From Tables) 1.049	Gravity .700 F _g = .9258

ISIPT (DK) = 2092 psig

PSIPT (DK) = 2126 psig

CHOKER VOLUME = $Q = C \times P_i \times F_t \times F_g \times F_{pv}$

$$Q = (12.365) (447) (.9822) (.9258) (1.049) = 5272 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,304,164}{1,601,664} \right)^n = (1.3019) (5272)^{.75} = (1.2183) (5272)^{.75}$$

$$Aof = 6,423 \text{ MCF/D}$$

NOTE: Heavy fog of water and distillate throughout test.

TESTED BY C. R. Wagner
CHECKED BY H. E. McAnally

L. D. Galloway
L. D. Galloway

