

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 10, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 87 (MV)	
Location 1550'S, 1750'W, Section 1, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 6580	Tubing: Diameter 1.600	Set At: Feet 4228
Pay Zone: From 4240	To 4274	Total Depth: 6580	Shut In 4-23-65
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 4400 ft.	
Shut-In Pressure, Casing, (MV) 1135 PSIG	+ 12 = PSIA 1147	Days Shut-In 15	Shut-In Pressure, Tubing (MV) 1135 PSIG	+ 12 = PSIA 1147
Flowing Pressure: P 661 PSIG	+ 12 = PSIA 673		Working Pressure: P _w 765 PSIG	+ 12 = PSIA 777
Temperature: T = 78 °F F _t = .9831	n = .75		F _{pv} (From Tables) 1.076	Gravity .700 F _g = .9258

ISIPT (DK) = 2055 psig

FSIPT (DK) = 2100 psig

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

$$Q = (12.365) (673) (.9831) (.9258) (1.076) = 8,150 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,315,609}{711,880} \right)^n = (8150) (1.8480)^{.75} = (8150) (1.5850)$$

$$Aof = 12,918 \text{ MCF/D}$$

NOTE: Well produced a very light spray of distillate and water throughout the test.

TESTED BY C. R. Wagner
 CALCULATED BY H. E. McAnally
~~W. H. McAnally~~
 CHECKED BY C. R. Wagner

Lewis D. Galloway
 Lewis D. Galloway

