

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 13, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 90 (MV) (S-26)	
Location 990'N, 1750'E. Sec. 1, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 6590	Tubing: Diameter 1.660	Set At: Feet 4297
Pay Zone: From 4234	To 4327	Total Depth: 6590	Shut In 9-22-65
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 4402	
Shut-In Pressure, Casing, PSIG 1091	+ 12 = PSIA 1103	Days Shut-In 21	Shut-In Pressure, Tubing PSIG 1091	+ 12 = PSIA 1103
Flowing Pressure: P PSIG 712	+ 12 = PSIA 724		Working Pressure: P _w PSIG 816	+ 12 = PSIA 828
Temperature: T = 88 °F F _t = .9741	n = .75		F _{pv} (From Tables) 1.080	Gravity .700 F _g = 9258

ISIPT (DK) = 2069 Psig

FSIPT (DK) = 2101 Psig

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

$$Q = 12.365 \times 724 \times .9741 \times .9258 \times 1.080 = 8719 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,216,609}{531,025} \right)^{.75} = (2.2910)^{.75} (8719) = (8719) (1.8620)$$

NOTE: Blew very light fog of water and distillate throughout test.

$$A_{of} = 16,235 \text{ MCF/D}$$

TESTED BY C. R. WagnerCHECKED BY W. D. Dawson

RECEIVED
OCT 18 1965
LEWIS D. GALLOWAY
OIL CON. COM.
DIST. 3

Lewis D. Galloway