

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE January 26, 1967

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 102 (MV)	
Location 800'S, 1180'W, Sec. 34, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 6970	Tubing: Diameter 1.660	Set At: Feet 4649
Pay Zone: From 4634	To 4675	Total Depth: 6981	Shut In 8-21-66
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 47.5	
Shut-In Pressure, Casing, PSIG 1097	+ 12 = PSIA 1109	Days Shut-In 21	Shut-In Pressure, Tubing PSIG 246	+ 12 = PSIA 258	
Flowing Pressure: P PSIG 1.4" H ₂ O Impact	+ 12 = PSIA -----		Working Pressure: P _w PSIG 187	+ 12 = PSIA 199	
Temperature: T = 49 °F Ft = -	n = .75		F _{pv} (From Tables) -	Gravity -	F _g = -

ISIPT (DK) = 1286 psig

FSIPT (DK) = 1498 psig

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}Q = 1.4" H₂O Impact through 2" Nipple = 139 MCF/D

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

$$A_{of} = \left(\frac{1229881}{1163317} \right)^n = (139)(1.0572)^{.75} = 139(1.0426)$$

A_{of} = 145 MCF/DTESTED BY Dannie RobertsCHECKED BY H. L. Kendrick

H. L. Kendrick