

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE 11-11-66

Operator EL PASO NATURAL GAS COMPANY		Lease Huerfanito Unit No. 99 (MV)	
Location 1650'S, 990'W, Sec. 35, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 6890	Tubing: Diameter 1.660	Set At: Feet 4547
Pay Zone: From 4003	To 4587	Total Depth: 6905	Shut In 10-28-66
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 4616	
Shut-In Pressure, Casing, PSIG 1085	+ 12 = PSIA 1097	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1085	+ 12 = PSIA 1097	
Flowing Pressure: P PSIG 602	+ 12 = PSIA 614		Working Pressure: P _w PSIG 720	+ 12 = PSIA 732	
Temperature: T = 77 °F	n = .75		F _{pv} (From Tables) 1.072	Gravity .710	F _g = .9193

ISIP (DK) = 1961 psig

FSIP (DK) = 1977 psig

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

$$Q = (12.365)(614)(.9840)(.9193)(1.072) = 7362 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1203409}{667585} \right)^n = 7362 (1.8026)^{.75} = (1.5557)(7362)$$

NOTE: The well produced a heavy fog of dist. and water throughout the test.

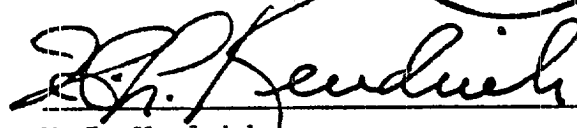
$$Aof = 11453 \text{ MCF/D}$$

TESTED BY C. R. Wagner

CHECKED

WITNESSED BY H. E. McAnally

CALCULATED BY A. J. Loleit



H. L. Kendrick