

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

OCC

DATE 12/20/72

Operator EL PASO NATURAL GAS COMPANY		Lease Klein #18 (CH)	
Location 1800/S, 1800/E, Sec. 34, T26N, R6W		County Rio Arriba	State NM
Formation Chacra		Pool Otero Ext.	
Casing: Diameter 2.875	Set At: Feet 3887	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3748	To 3852	Total Depth: 3887	Shut In 12/13/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 680	+ 12 = PSIA 692	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 130	
Temperature: T = 55 °F	Ft = 1.005	n = .75	Fpv (From Tables) 1.009	Gravity .655	Fg = .9571

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(99)(1.005)(.9571)(1.009) = 1188 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{478864}{461964} \right)^n = 1188 (1.0366)^{.75} = 1188 (1.0273)$$

$$Aof = 1221 \text{ MCF/D}$$

NOTE: Well produced dry gas throughout test.

TESTED BY Carl Rhames

WITNESSED BY

William D Welch
William D. Welch
Well Test Engineer