

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/27/72

Operator EL PASO NATURAL GAS COMPANY		Lease Johnston "A" #14	
Location 990/S, 800/W, Sec. 36, T26N, R6W		County Rio Arriba	State NM
Formation Chacra <i>Ept</i>		Pool Undesignated <i>Altio</i>	
Casing: Diameter 2.875	Set At: Feet 3655	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3445	To 3556	Total Depth: 3655	Shut In 12/18/72
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 811	+ 12 = PSIA 823	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 58	+ 12 = PSIA 70	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	92	
Temperature: T = 55 °F	F _t = 1.005	n = .75	F _{pv} (From Tables) 1.009	Gravity .655	F _g = .9571

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

$$Q = (12.365)(70)(1.005)(.9571)(1.009) = \underline{840} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{677329}{668865} \right)^n = (840)(1.0127)^{.75} = (840)(1.0095)$$

$$Aof = \underline{848} \text{ MCF/D}$$

TESTED BY J. A. Jones

WITNESSED BY _____

NOTE: Well produced a heavy spray of oil and water for 10 minutes then decreased to a light mist for twenty minutes. Well blew dry gas for 90 minutes, then blew a light mist of oil and water the last sixty minutes of the test.

J. A. Jones
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Well Test Engineer

