

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9/26/72

Operator EL PASO NATURAL GAS COMPANY		Lease Sycamore 67 #13	
Location 1610/2, 1610/0, Sec. 20-25N-R5T		County El Paso	State TX
Formation Ogallala		Pool Ogallala	
Casing: Diameter 2.375	Set At: Feet 3129	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 323	To 3603	Total Depth: 3129	Shut In 9/19/72
Stimulation Method GNT		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 473	+ 12 = PSIA 485	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 46	+ 12 = PSIA 58	Working Pressure: P _w PSIG calculated	+ 12 = PSIA	75	
Temperature: T=58 °F Ft=1.002	n = .75	F _{pv} (From Tables) 1.002	Gravity .655	F _g = .9571	

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

$$Q = (12.365)(58)(1.002)(.9571)(1.002) = 694 \text{ MCF/D}$$

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

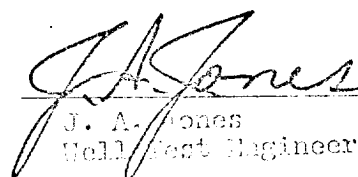
$$A_{of} = \left(\frac{240 \cdot 100}{234 \cdot 475} \right)^n = (694)(1.0240)^{.75} = (694)(1.0179)$$

$$A_{of} = 706 \text{ MCF/D}$$

NOTE: Well produced a light to medium mist of water throughout test.

TESTED BY R. J. Droughton

WITNESSED BY _____


 J. A. Jones
 Well Test Engineer
