

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

OCC (2)

DATE August 16, 1972

Operator El Paso Natural Gas Company		Lease McCulley No. 9	
Location 1480/N, 1687/W, Sec. 24 T 28N, R 9W		County San Juan	State New Mexico
Formation Fictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2566	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2414	To 2460	Total Depth: 2566	Shut In 8-9-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 634	+ 12 = PSIA 706	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 157	+ 12 = PSIA 171	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 208		
Temperature: T = 62 °F	n = Ft = .9981	Fpv (From Tables) 1.015	Gravity .845	Fg = .9645	

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

$$Q = 12.365 \times 171 \times .9981 \times .9645 \times 1.015 = 2066 \text{ MCF/D}$$

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

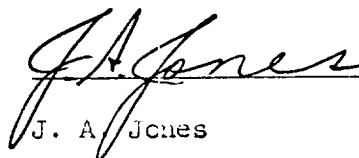
NOTE: Blew heavy mist of water with some sand throughout the test.

$$Aof = \left(\frac{458436}{455172} \right)^n = (1.0950)^{.85} (2066) = (1.0802)(2066)$$

$$Aof = 2231 \text{ MCF/D}$$

TESTED BY J. A. Jones

WITNESSED BY


J. A. Jones
