

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9/21/72

Operator EL PASO NATURAL GAS COMPANY		Lease Blanco #19	
Location 971/N, 1747/W, Sec. 1-T27N-R3W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3335	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3230	To 3250	Total Depth: 3335	Shut In 9/11/72
Stimulation Method SWP		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 832	+ 12 = PSIA 844	Days Shut-In 10	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 85	+ 12 = PSIA 97	Working Pressure: Pw PSIG calculated	+ 12 = PSIA 124		
Temperature: T=62 °F	Ft=.9931	n = .85	Fpv (From Tables) 1.007	Gravity .640	Fg = .9682

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

$$Q = (12.365)(97)(.9931)(.9682)(1.007) = 1167 \text{ MCF/D}$$

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

$$Aof = \left(\frac{712 \ 336}{696 \ 960} \right)^n = (1167)(1.0221)^{.85} = (1167)(1.0187)$$

$$Aof = 1189 \text{ MCF/D}$$

TESTED BY Carl Rhames

NOTE: Well produced dry gas throughout test.

WITNESSED BY _____

J. A. Jones
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Well Test Engineer