

. o c c

4-19-73

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE

Operator El Paso Natural Gas Company		Lease Filan #7	
Location 1180'/S, 1840'/E, Sec. 5, T27N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2402	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2244	To 2294	Total Depth: 2402	Shut In 4/12/73
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 702	+ 12 = PSIA 714	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 218	+ 12 = PSIA 230	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 275		
Temperature: T = 62 °F	Ft = .9981	n = .85	Fpv (From Tables) 1.021	Gravity .640	Fg = .9682

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

$$Q = (12.365)(230)(.9981)(.9682)(1.021) = 2806 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{509796}{434171} \right)^n = 2806 (1.1742)^{.85} = 2806 (1.1463)$$

$$Aof = 3218 \text{ MCF/D}$$

NOTE: Well blew dry gas.

TESTED BY C. Rhames

WITNESSED BY

William D Welch
William D. Welch
Well Test Engineer

