

OPEN FLOW TEST DATA

DATE 7-4-75

Operator El Paso Natural Gas Company		Lease Randlemon #2	
Location 865/N, 1830/E, Sec. 26, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 2.875	Set At: Feet 2543'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2348	To 2444'	Total Depth: PBDT 2543' 2533'	Shut In 6-17-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 753	+ 12 = PSIA 765	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 175	
Temperature: T = 62 °F	n = .85		Fpv (From Tables) 1.013	Gravity .635	Fg = .9721

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

$$Q = 12.365(144)(.9981)(.9721)(1.013) = \underline{\quad 1750 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{585225}{556569} \right)^n = 1750(1.0515)^{.85} = (1750)(1.0436)$$

$$Aof = \underline{\quad 1826 \quad} \text{ MCF/D}$$

Note: Well blew heavy fog of water throughout test. Vented gas to atmosphere - 215 MCF.

TESTED BY Goodwin

WITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer

