

OPEN FLOW TEST DATA

DATE July 8, 1976

Operator Northwest Production		Lease Jicarilla 123 C #21	
Location NE/4, Sec. 8, T25N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3707'	Tubing: Diameter --	Set at
Pay Zone: From 3608'	To 3675'	Total Depth: DBTD 3707' 3697'	Shut 7-1-76
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1028	+ 12 = PSIA 1040	Days Shut-In 7	Shut-In Pressure, Tubing PSIG --	+ 12 = PSIA	
Flowing Pressure: P PSIG 219	+ 12 = PSIA 231		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 302	
Temperature: T = 60 °F	Ft = 1.000	n = .85	Fpv (From Tables) 1.023	Gravity .670	Fg = .9463

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

$$Q = (12.365) (231) (1.000) (.9463) (1.023) = \underline{\quad 2765 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1081600}{990396} \right)^n = 2765(1.0921)^{.85} = 2765(1.0778)$$

$$Aof = \underline{\quad 2980 \quad} \text{ MCF/D}$$

Note: Well produced light mist of water throughout test. Vented 421 MCF of gas to atmosphere.

TESTED BY Rhames

WITNESSED BY _____

[Signature]
Well Test Engineer