

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 20, 1976

Operator Northwest Production		Lease Jicarilla 123C #16	
Location SW 5-25N-4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2 7/8"	Set At: Feet 3914'	Tubing: Diameter T/C	Set At: Feet --
Pay Zone: From 3770	To 3825'	Total Depth: PBD 3914 3903	Shut In 8-12-76
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 1050	+ 12 = PSIA 1062	Days Shut-In 8	Shut-In Pressure, Tubing PSIG --	+ 12 = PSIA --	
Flowing Pressure: P PSIG 58	+ 12 = PSIA 70	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 92		
Temperature: T = 56 °F	Ft = 1.002	n = .85	Fpv (From Tables) 1.009	Gravity .670	Fg = .9463

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

$$Q = (12.365)(70)(1.002)(.9463)(1.009) = 828 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1127844}{1119380} \right)^n = 828(1.0076)^{.85} = 828(1.0064)$$

$$Aof = 833 \text{ MCF/D}$$

TESTED BY Goodwin

WITNESSED BY

*C. R. Wagner*  
Well Test Engineer