

OPEN FLOW TEST DATA

DATE June 14, 1977

Operator Northwest Production Corp.		Lease Jicarilla 123C #22	
Location NE 5-25-4		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2 7/8	Set At: Feet 3672'	Tubing: Diameter Tubingless Completion	Set At: Feet --
Pay Zone: From 3575	To 3625	Total Depth: 3672	Shut In 6-7-77
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 1043	+ 12 = PSIA 1055	Days Shut-In 7	Shut-In Pressure, Tubing PSIG --	+ 12 = PSIA --	
Flowing Pressure: P PSIG 120	+ 12 = PSIA 132	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 172		
Temperature: T = 54°F	F _t = 1.006	n = .85	F _{pv} (From Tables) 1.014	Gravity .670	F _g = .9463

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

$$Q = 12.365(132)(1.006)(.9463)(1.014) = 1576 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1113025}{1083441} \right)^n = 1576(1.0273)^{.85} = 1576(1.0232)$$

$$Aof = 1613 \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Vented 294 MCF of gas to atmosphere.

TESTED BY Howell

WITNESSED BY

C. R. Wagner
Well Test Engineer