

OPEN FLOW TEST DATA

DATE June 30, 1977

Operator Northwest Production Corp.		Lease Jicarilla 123 C #25	
Location NW 8-25-04		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2 7/8	Set At: Feet 3874'	Tubing: Diameter T/C	Set At: Feet
Pay Zone: From 3752	To 3824	Total Depth: 3874	Shut In 6-23-77
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.3650		
Shut-In Pressure, Casing, PSIG 1000	+ 12 = PSIA 1012	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No
Flowing Pressure: P PSIG 20	+ 12 = PSIA 32		Working Pressure: Pw PSIG Calc. 42
Temperature: T = 49 °F	Ft = 1.011	Fpv (From Tables) 1.004	Gravity .670 Fg = .9463

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = 12.365 (32) (1.011) (.9463) (1.004) = 380 MCF/D

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

Aof = Q $\left(\frac{1024144}{1022380} \right)^n = 380(1.0017)^{.85} = 380(1.0015)$

Aof = 381 MCF/D

Note: Well blew dry gas. Vented to atmosphere 62 MCF of gas.

TESTED BY D. Howell

WITNESSED BY _____

C.R. Legend
Well Test Engineer