

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 17, 1977

Operator Northwest Production Corp		Lease Jicarilla 123 C #23	
Location NW 5-25-04		County Rio Arriba	State New Mexico
Formation Pictured Cliff		Pool So. Blanco	
Casing: Diameter 2 7/8	Set At: Feet 3485'	Tubing: Diameter T/C	Set At: Feet --
Pay Zone: From 3342	To 3390	Total Depth: 3485	Shut In 5-9-77
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1120	+ 12 = PSIA 1132	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 149	+ 12 = PSIA 161	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 207		
Temperature: T = 55 °F	F _t = 1.0048	n = 0.85	F _p v (From Tables) 1.018	Gravity 0.695	F _g = 0.9292

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_pv

Q = (12,365) (161) (1.0048) (0.9292) (1.018) = 1892 MCF/D

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

Aof = Q $\left(\frac{1281424}{1238575} \right)^n = (1892) (1.0346)^{.85} = (1892) (1.0293)$

Aof = 1947 MCF/D

Note: The well produced dry gas throughout the test. The well produced 273 MCF of gas during the test.

TESTED BY D.P. Howell

WITNESSED BY _____

J. E. McManally
 Well Test Engineer