

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-24-76

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #73	
Location NE 17-27N-4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 7.000	Set At: Feet 4123'	Tubing: Diameter 1.660	Set At: Feet 3885'
Pay Zone: From 3800	To 3881'	Total Depth: PBTD 6396' 6379	Shut In 9-8-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1045	+ 12 = PSIA 1057	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 1040	+ 12 = PSIA 1052
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137		Working Pressure: P <sub>w</sub> PSIG 632	+ 12 = PSIA 644
Temperature: T = 47 °F	F <sub>t</sub> = 1.0127	n = .85	F <sub>pv</sub> (From Tables) 1.017	Gravity 0.695 F <sub>g</sub> = 0.9292

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365) (137) (1.0127) (0.9292) (1.017) = 1621 MCF/D

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

Aof = Q  $\left( \frac{1117249}{702513} \right)^n = (1621) (1.5904)^{.85} = (1621) (1.4835)$

Aof = 2405 MCF/D

Note: The well produced dry gas throughout the test and produced 271 MCF of gas during the test.

TESTED BY R. Hardy

WITNESSED BY

*J.E. McNally*  
Well Test Engineer

