

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 22, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit 174	
Location 1650'N, 1090'W, Section 36, T28N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 3525	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3370	To 3420	Total Depth: 3525	Shut In 6/15/73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1039	+ 12 = PSIA 1051	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 141	+ 12 = PSIA 153	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 197		
Temperature: T = 61 °F	Ft = .9990	n = .85	Fpv (From Tables) 1.014	Gravity .645	Fg = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

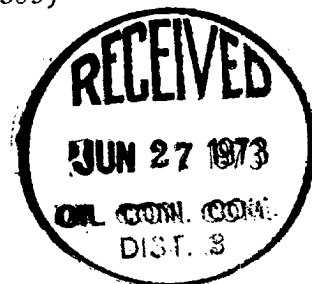
$$Q = (12.365)(153)(.9990)(.9645)(1.014) = 1848 \text{ MCF/D}$$

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

NOTE: Well produced a very light mist of water throughout the test.

$$Aof = Q \left(\frac{1104601}{1065792} \right)^n = 1848 (1.0364)^{.85} = 1848 (1.0309)$$

$$Aof = 1905 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

William D. Welch
William D. Welch, Well Test Engineer