

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8/23/72

Operator El Paso Natural Gas Company		Lease Pan Juan 30-6 Unit #68 (CNO)	
Location 1088/1, 989/1, Sec. 25-T30-R62		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Elweco	
Casing Diameter 4.500	Set At: Feet 6223	Tubing Diameter 2.375	Set At: Feet 6226
Pay Zone: From 5586	To 6240	Total Depth: 6223	Shut In 8/12/72
Stimulation Method STP		Flow Through Casing	Flow Through Tubing NONE

Choke Size, Inches .750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 697	+ 12 = PSIA 709	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 488
Flowing Pressure: P 166	+ 12 = PSIA 178		Working Pressure: Pw PSIG 592
Temperature: T = 74 °F	n =		Fpv (From Tables) 1.015
Ft = .9868	.75		Gravity .626
			Fg = .9774

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

$$Q = (12.365) (178) (.9868) (.9774) (1.015) = 2155 \text{ MCF/D}$$

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

$$Aof = \left(\frac{502.681}{137.805} \right)^{.75} = (2155) (3.6462)^{.75} = (2155) (2.6386)$$

Note: Well unloaded heavy stream of liquid at start of test, then produced medium to light spray of water with some distillate for the duration of the test.

$$Aof = 5685 \text{ MCF/D}$$

TESTED BY R. J. Wroughton

WITNESSED BY

J. A. Jones
J. A. Jones
Well Test Engineer

