

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE 9/7/72

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit #103	
Location 1520/N, 1060/E Sec. 25-T30N-R6W		County Rio Arriba	State NM
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6153	Tubing: Diameter 2.375	Set At: Feet 6104
Pay Zone: From 5545	To 6110	Total Depth: 6153	Shut In 8/29/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1040	+ 12 = PSIA 1052	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1031	+ 12 = PSIA 1043	
Flowing Pressure: P PSIG 64	+ 12 = PSIA 76		Working Pressure: P _w PSIG 368	+ 12 = PSIA 380	
Temperature: T = 68 °F	F _t = .9924	n = .75	F _p (From Tables) 1.007	Gravity .630	F _g = .9759

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

$$Q = 12.365 \times 76 \times .9924 \times 9759 \times 1.007 = 916 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1106704}{962304} \right)^n = 916 \times 1.1501^{.75} = 916 \times 1.1106 = 1017 \text{ MCF/D}$$

$$Aof = 1017 \text{ MCF/D}$$

NOTE: Unloaded small amount mud and water after 5 minute blow. Blew light mist distillate throughout test.

TESTED BY Carl Rhames

WITNESSED BY

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

