

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-24-72

Operator EL PASO NATURAL GAS COMPANY		Lease Canyon Largo Unit #106 (OWWO)	
Location 990/N, 1500/W, Sec. 20-T24N-R6W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool Ballard Ext.	
Casing: Diameter 4.500	Set At: Feet 2097	Tubing: Diameter 2.375	Set At: Feet 2054
Pay Zone: From 1980	To 2028	Total Depth: 2097	Shut In 10/16/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 681	PSIG	+ 12 = PSIA 693	Days Shut-In 8	Shut-In Pressure, Tubing 344	PSIG
		+ 12 = PSIA 356			
Flowing Pressure: P 62	PSIG	+ 12 = PSIA 74	Working Pressure: P _w 145	PSIG	+ 12 = PSIA 157
Temperature: T = 64 °F		n = .85	Fpv (From Tables) 1.011	Gravity .700	Fg = .9258
Ft = .9962					

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = 12.365 \times 74 \times .9962 \times .9258 \times 1.011 = \underline{853} \text{ MCF/D}$$

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

$$Aof = \left(\frac{480249}{455600} \right)^n = 853 (1.0541)^{.85} = (853)(1.0458)$$

$$Aof = \underline{892} \text{ MCF/D}$$

NOTE: Unloaded water for 3 min/ very light mist of water thru test.

TESTED BY Rhames

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

