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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 3/2/73

Operator El Paso Natural Gas Company		Lease Howell C #6	
Location 2510/S, 1270/W, Sec. 18, T30, R8W		County San Juan	State NM
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 3259	Tubing: Diameter 2 3/8	Set At: Feet 3063
Pay Zone: From 3108	To 3144	Total Depth: 3259	Shut In 2/23/73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 871	+ 12 = PSIA 883	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 871	+ 12 = PSIA 883	
Flowing Pressure: P PSIG 54	+ 12 = PSIA 66		Working Pressure: P _w PSIG 119	+ 12 = PSIA 131	
Temperature: T = 60 °F F _t = 1.000	n = .85		F _{pv} (From Tables) 1.007	Gravity .645 F _g = .9645	

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

$$Q = (12.365)(66)(1.000)(.9645)(1.007) = \underline{793} \text{ MCF/D}$$

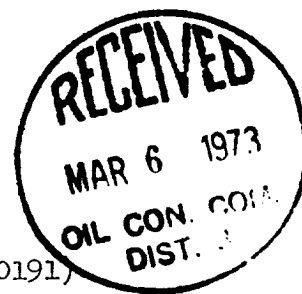
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{779689}{762528} \right)^n = 793 (1.0225)^{.85} = 793 (1.0191)$$

$$Aof = \underline{808} \text{ MCF/D}$$

TESTED BY Hardy & Rhames

WITNESSED BY _____



William D. Welch

William D. Welch
Well Test Engineer

