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DATE 2/5/73

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #186	
Location 1525/N, 970/E, Sec. 6, T27N, R6W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.250	Set At: Feet 7676	Tubing: Diameter 1.990	Set At: Feet 7640
Pay Zone: From 7454	To 7630	Total Depth: 7676	Shut In 1/18/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2629	+ 12 = PSIA 2641	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 1175	+ 12 = PSIA 1187	
Flowing Pressure: P PSIG 421	+ 12 = PSIA 433		Working Pressure: P _w PSIG 1210	+ 12 = PSIA 1222	
Temperature: T = 73 °F F _t = .9877	n = .75		F _{pv} (From Tables) 1.044	Gravity .678	F _g = .9407

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

$$Q = (12.365)(433)(.9877)(.9407)(1.044) = 5194 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6974881}{5481597} \right)^n = 5194 (1.2724)^{.75} = 5194 (1.1980)$$

$$Aof = 6222 \text{ MCF/D}$$

NOTE: Blew water and dist. throughout test.

TESTED BY Jess Goodwin

WITNESSED BY _____

William D. Welch

William D. Welch
Well Test Engineer

