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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/31/73

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #133	
Location 981/N, 1790/E, Sec. 4, T27N, R6W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7677	Tubing: Diameter 1.900	Set At: Feet 7652
Pay Zone: From 7420	To 7650	Total Depth: 7677	Shut In 1/22/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1305	+ 12 = PSIA 1317	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1116	+ 12 = PSIA 1128	
Flowing Pressure: P PSIG 288	+ 12 = PSIA 300		Working Pressure: P _w PSIG 520	+ 12 = PSIA 532	
Temperature: T = 72 °F	F _t = .9887	n = .75	F _{pv} (From Tables) 1.023	Gravity .620	F _g = .9837

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

$$Q = (12.365)(300)(.9887)(.9837)(1.023) = \underline{3691} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1734849}{1451465} \right)^n = 3691 (1.1950)^{.75} = 3691 (1.1429)$$

$$Aof = \underline{4218} \text{ MCF/D}$$

NOTE: Blew heavy fog of water and hydrocarbons.

TESTED BY Jesse Goodwin

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

