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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/4/73

Operator EL PASO NATURAL GAS COMPANY		Lease Canyon Largo Unit #169 (PC)	
Location 1100/W, 800/E, Sec. 4-T25N, R6W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2954	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2892	To 2904	Total Depth: 2954	Shut In 12/20/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 448	+ 12 = PSIA 460	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 122	+ 12 = PSIA 134	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 168		
Temperature: T = 60 °F	Ft = 1.000	n = .85	Fpv (From Tables) 1.015	Gravity .700	Fg = .9258

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

$$Q = (12.365)(134)(1.000)(.9258)(1.015) = 1557 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{211600}{183376} \right)^n = (1557)(1.1539)^{.85} = (1557)(1.1294)$$

$$Aof = 1758 \text{ MCF/D}$$

NOTE: The well produced frac sand and dry gas for 30 min, then produced a very light spray of distillate and water throughout rest of test.

TESTED BY J. Jones

WITNESSED BY _____

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

