

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 18, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #218	
Location 1020/N, 890/E, Sec. 20, T24N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2382'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2268	To 2292'	Total Depth: 2382	Shut In 10-9-73
Stimulation Method Sandwater Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 662	+ 12 = PSIA 674	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 268	+ 12 = PSIA 280	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 338		
Temperature: T = 72°F	F _t = .9887	n = .85	F _{pv} (From Tables) 1.030	Gravity .700	F _g = .9258

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

$$Q = (12.365)(280)(.9887)(.9258)(1.030) = 3264 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{454276}{340032} \right)^n = 3264 (1.3360)^{.85} = 3264 (1.2792)$$

$$Aof = 4176 \text{ MCF/D}$$

Note: Blew clear gas for entire test.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



William D. Welch
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Well Test Engineer