

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 18, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #209	
Location 1750/N, 800/E, Sec. 15, T27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7723'	Tubing: Diameter 1.990	Set At: Feet 7671'
Pay Zone: From 7454	To 7664'	Total Depth: PBDT 7723' 7715'	Shut In 6-10-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2567	+ 12 = PSIA 2579	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2222	+ 12 = PSIA 2234	
Flowing Pressure: P PSIG 348	+ 12 = PSIA 360		Working Pressure: P _w PSIG 570	+ 12 = PSIA 582	
Temperature: T = 75 °F F _t = .9859	n = .75		F _{pv} (From Tables) 1.0260	Gravity .620 F _g = .9837	

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

$$Q = 12.365(360)(.9859)(.9837)(1.0260) = \underline{4429} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6651241}{6312517} \right)^n = 4429(1.0537)^{.75} = 4429(1.0400)$$

$$Aof = \underline{4606} \text{ MCF/D}$$

Note: The well unloaded a heavy fog of distillate and water in approximately 11 minutes.

TESTED BY D. Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

