

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 26, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #214	
Location 1510/N, 1040/E, Sec. 4, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7766'	Tubing: Diameter 1.990	Set At: Feet 7719'
Pay Zone: From 7532'	To 7734'	Total Depth: 7766'	Shut In 6-16-74
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 2480	+ 12 = PSIA 2492	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2477	+ 12 = PSIA 2489	
Flowing Pressure: P PSIG 332	+ 12 = PSIA 344		Working Pressure: P _w PSIG 545	+ 12 = PSIA 557	
Temperature: T = 85 °F	n = Ft = .9768		F _p (From Tables) 1.0290	Gravity .650	F _g = .9608

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

$$Q = 12.365(344)(.9768)(.9608)(1.0290) = \underline{\quad 4108 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6210064}{5899815} \right)^n = 4108(1.0526)^{.75} = 4108(1.0392)$$

$$Aof = \underline{\quad 4269 \quad} \text{ MCF/D}$$



Note: The well blew a heavy fog of water and distillate.

TESTED BY Fothergill

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer