

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 9, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #218	
Location 1175/S, 1540/W, Sec. 12, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7919'	Tubing: Diameter 1.990	Set At: Feet 7863'
Pay Zone: From 7700'	To 7876'	Total Depth: 7919' PBDT 7903'	Shut In 6-24-74
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 2629	+ 12 = PSIA 2641	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2626	+ 12 = PSIA 2638	
Flowing Pressure: P PSIG 325	+ 12 = PSIA 337		Working Pressure: P _w PSIG 523	+ 12 = PSIA 535	
Temperature: T = 75 °F	n = Ft = .9859		F _{pv} (From Tables) 1.0300	Gravity .650	F _g = .9608

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

$$Q = 12.365(337)(.9859)(.9608)(1.0300) = \underline{\quad 4066 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6974881}{6688656} \right)^n = 4066(1.0428)^{.75} = 4066(1.0319)$$

$$Aof = \underline{\quad 4195 \quad} \text{ MCF/D}$$

Note: The well blew a medium to light fog of water and distillate during the test.

TESTED BY L. W. Fothergill

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

