

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 14, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #200	
Location 1780/N, 1020/W, Sec. 25, T27N, R6W		County Rio Arriba	State New Mexico
Formation PC		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3337'	Tubing: Diameter No tubing	Set At: Feet --
Pay Zone: From 3240'	To 3302'	Total Depth: PBD 3337' 3326'	Shut In 1-2-75
Stimulation Method Sandwater Frac.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 838	+ 12 = PSIA 850	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 82	+ 12 = PSIA 94		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 120	
Temperature: T = 50 °F	n = Ft = 1.0098 .85		Fpv (From Tables) 1.008	Gravity .625	Fg = 0.9798

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

$$Q = 12.365(94)(1.0098)(0.9798)(1.008) = 1159 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{722500}{708100} \right)^n = 1159(1.0203)^{.85} = 1159(1.0173)$$

$$Aof = 1179 \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY F. Johnson

WITNESSED BY _____

Loren W. Foster
Well Test Engineer

