

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 4, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #190	
Location 1470/N, 1015/W, Sec. 11, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3405'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3268'	To 3326'	Total Depth: PBT 3405' 3395'	Shut In 8-23-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 986	+ 12 = PSIA 998	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 62	+ 12 = PSIA 74		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 94	
Temperature: T = 65 °F	n = Ft = 0.9952		Fpv (From Tables) 1.0070	Gravity .625	Fg = 0.9798

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

$$Q = 12.365(74)(0.9952)(0.9798)(1.0070) = \underline{\quad 898 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{996004}{987168} \right)^n = 898(1.0090)^{.85} = 898(1.0076)$$

$$Aof = \underline{\quad 905 \quad} \text{ MCF/D}$$

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

TESTED BY D. Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

