

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 6, 1973

Operator El Paso Natural Gas Company		Lease San Juan 30-4 Unit #34	
Location 1790/N, 1650/W, Sec. 16, T30N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool East Blanco	
Casing: Diameter 2.875	Set At: Feet 4580'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 4240	To 4484	Total Depth: 4580	Shut In 11-13-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1240	+ 12 = PSIA 1252	Days Shut-In 23	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 68	+ 12 = PSIA 80		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 108	
Temperature: T = 56 °F F _t = 1.004	n = .85		F _p v (From Tables) 1.007	Gravity .610 F _g = .9918	

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

$$Q = (12.365)(80)(1.004)(.9918)(1.007) = \underline{\quad 992 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1567504}{1555840} \right)^n = 992(1.0075)^{.85} = 992(1.0064)$$

$$Aof = \underline{\quad 998 \quad} \text{ MCF/D}$$

Note: Medium fog of water and
distillate throughout the test.

TESTED BY D. Norton

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

