

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 25, 1974

Operator El Paso Natural Gas Company		Lease Vaughn #23 (PC)	
Location 1840/N, 1840/W, Sec. 27, T26N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2906'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2898'	To 2908'	Total Depth: PBDT 3926' 2895'	Shut In 6-6-74
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 937	+ 12 = PSIA 949	Days Shut-In 49	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 81	+ 12 = PSIA 93		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 116	
Temperature: T = 66 °F	n = Ft = .9943		Fpv (From Tables) 1.0090	Gravity .670	Fg = .9463

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

$$Q = 12.365(93)(.9943)(.9463)(1.0090) = \underline{\quad 1092 \quad} \text{MCF/D}$$

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

$$Aof = Q \left(\frac{900601}{887145} \right)^n = 1092(1.0152)^{.85} = 1092(1.0129)$$

$$Aof = \underline{\quad 1106 \quad} \text{MCF/D}$$

Note: The well blew a dry gas during the test.

TESTED BY D. Norton

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

