

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 31, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #197	
Location 1450/S, 1180/W, Sec. 14, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 3285'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3200'	To 3246'	Total Depth: PBDT 3285' 3275'	Shut In 12-7-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Meter Choke Size, Inches 3" MR	Orifice 2.500	Orifice Choke Constant: C 32.64	Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1042	+ 12 = PSIA 1054	Days Shut-In 24	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --
Flowing Pressure: P PSIG W 91 MR 30	+ 12 = PSIA WH 103 MR 42		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 116
Temperature: T = 47 °F	n = F _t = 1.013	.85	F _{pv} (From Tables) 1.010	Gravity .625 F _g = 1.265

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

$$Q = \text{Calculated from orifice meter readings} = \underline{\quad 821 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1110916}{1097460} \right)^n = 821(1.0123)^{.85} = 821(1.0104)$$

$$Aof = \underline{\quad 830 \quad} \text{ MCF/D}$$

Note: No liquids produced. Dry gas.

TESTED BY Hardie & Johnson

WITNESSED BY _____

Loren W. Fairgill
Well Test Engineer

