

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 10, 1974

Operator El Paso Natural Gas Company		Lease San Juan 30-5 Unit #37	
Location 1630/S, 1670/W, Sec.8, T30N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7872'	Tubing: Diameter 1.900	Set At: Feet 7797'
Pay Zone: From 7744	To 7820	Total Depth: 7870	Shut In 12-24-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2955	+ 12 = PSIA 2967	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 2944	+ 12 = PSIA 2956	
Flowing Pressure: P PSIG 304	+ 12 = PSIA 316		Working Pressure: P _w PSIG 510	+ 12 = PSIA 522	
Temperature: T = 74 °F	n = F_t = .9868		F _p (From Tables) 1.023	Gravity .600	F_g = 1.000

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

$$Q = 12.365(316)(.9868)(1.000)(1.023) = \underline{\quad 3944 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{8803089}{8530605} \right)^n = 3944 (1.0319)^{.75} = 3944 (1.0239)$$

$$Aof = \underline{\quad 4039 \quad} \text{ MCF/D}$$

Note: Light mist.

TESTED BY Rhames

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Well Test Engineer