

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 12, 1974

Operator El Paso Natural Gas Company		Lease Lindrith Unit #77	
Location 900/S, 1700/W, Sec. 12, T24N, R3W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3374'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3306	To 3334	Total Depth: PBD 3374' 3363	Shut In 11-5-74
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 985	+ 12 = PSIA 997	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 76	+ 12 = PSIA 88		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 113	
Temperature: T = 52 °F F _t = 1.0078	n = .85		F _{pv} (From Tables) 1.010	Gravity 0.670 F _g = 0.9463	

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

$$Q = 12.365(88)(1.0078)(0.9463)(1.010) = \underline{\quad 1048 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{994009}{981240} \right)^n = 1048(1.0130)^{.85} = 1048(1.0111)$$

$$Aof = \underline{\quad 1060 \quad} \text{ MCF/D}$$

Note: The well produced dry gas throughout the test.

TESTED BY Don Norton

WITNESSED BY _____

H. E. McNally
Well Test Engineer

