

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 27, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 131	
Location 1680'S, 870'W, Section 34, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2"	Set At: Feet 7329	Tubing: Diameter 1-1/2"	Set At: Feet 7276
Pay Zone: From 7238	To 7316	Total Depth: 7329	Shut In 4-19-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2584	+ 12 = PSIA 2596	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1598	+ 12 = PSIA 1610	
Flowing Pressure: P PSIG 341	+ 12 = PSIA 353		Working Pressure: P _w PSIG 626	+ 12 = PSIA 638	
Temperature: T = 81 °F	F _t = .9804	n = .75	F _{pv} (From Tables) 1.031	Gravity .650	F _g = .9608

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

$$Q = (12.365) (353) (.9804) (.9608) (1.031) = \underline{4239} \text{ MCF/D}$$

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

NOTE: - Well produced light to medium mist water and oil throughout test

$$Aof = Q \left(\frac{6739216}{6332172} \right)^n = (4239) (1.0643)^{.75} = (4239) (1.0478)$$

$$Aof = \underline{4442} \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY _____



William D. Welch
William D. Welch, Well Test Engineer