

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE July 2, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 148	
Location 1800'N, 850'W, Section 6, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Sc. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 3415	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3286	To 3328	Total Depth: 3415	Shut In 6-20-73
Stimulation Method GIP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Gradient Pressure, Casing, PSIG 1074	+ 12 = PSIA 1086	Days Shut-in 12	Gradient Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure at P 208	+ 12 = PSIA 220		Working Pressure: Pw Calculated	PSIG 283	
Temperature T = 60 °F	F _g = 1.000	n = .85	F _{pv} (From Table) 1.021	Gravity .655	F _g = .9571

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

$$Q = (12.365) (220) (1.000) (.9571) (1.021) = 2658 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{1179396}{1099423} \right)^n = (2658) (1.0727)^{.85} = 2658 (1.0615)$$

$$Aof = 2822 \text{ MCF/D}$$

TESTED BY Carl Rhames

WITNESSED BY _____



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