

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 22, 1973

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 105	
Location 1460'S, 1460'W, Section 28, T29N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 2.875	Set At: Feet 7729	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 7604	To 7710	Total Depth: 7729	Shut In 5-4-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 2655	+ 12 = PSIA 2667	Days Shut-In 18	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 46	+ 12 = PSIA 58		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 89	
Temperature: T = 60 °F	F _t = 1.000	n = .75	F _{av} (From Tables) 1.006	Gravity .590	F _g = 1.0084

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

$$Q = (12.365) (58) (1.000) (1.0084) (1.006) = \underline{728} \text{ MCF/D}$$

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

NOTE: The well produced a light mist of water throughout the test.

$$Aof = Q \left(\frac{7112889}{7104968} \right)^n = 728 (1.0011)^{.75} = 728 (1.0008)$$

$$Aof = \underline{729} \text{ MCF/D}$$

TESTED BY Carl Rhames

WITNESSED BY _____



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