

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1973

Operator El Paso Natural Gas Company		Lease Hardie E No. 8	
Location 870'S, 1180'W, Section 9, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool So. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 2818	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2676	To 2784	Total Depth: 2818	Shut In 5-18-73
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 985	+ 12 = PSIA 997	Days Shut-in 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 106	+ 12 = PSIA		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 146	
Temperature: T = 66 °F	n =		Fpv (From Tables) 1.010	Gravity .645	Fg = .9645
Ft = .9943	.85				

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

$$Q = 12.365 \times 118 \times .9943 \times .9645 \times 1.010 = 1413 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{994009}{972693} \right)^n = 1413 (1.0219)^{.85} = 1413 (1.0186)$$

$$Aof = 1441 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY

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

