

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #178 (PC)	
Location 940/S, 800/E, Sec. 31, T28N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2917'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2708'	To 2740'	Total Depth: 3695' PPTD, 2887'	Shut In 4-19-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1014	+ 12 = PSIA 1026	Days Shut-In 41	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 108	+ 12 = PSIA 120		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 148	
Temperature: T = 67 °F F _t = .9933	n = .85		F _{pv} (From Tables) 1.0080	Gravity .620 F _g = .9837	

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

$$Q = 12.365(120)(.9933)(.9837)(1.0080) = 1461 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1052676}{1030772} \right)^n = 1461(1.0213)^{.85} = 1461(1.0180)$$

$$Aof = 1488 \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

WITNESSED BY



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer