

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 11-74

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #175	
Location 1650/S, 850/E, Sec. 7, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3503'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3398'	To 3416'	Total Depth: PBTD 3503' 3492'	Shut In 5-30-74
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 983	+ 12 = PSIA 995	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 176	
Temperature: T = 67 °F	F _g = 9933	n = .85	F _{pv} (From Tables) 1.0120	Gravity .655	F _g = .9571

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

$$Q = 12.365(137)(.9933)(.9571)(1.0120) = \underline{\hspace{2cm}} 1630 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{990025}{959049} \right)^n = 1630(1.0323)^{.85} = 1630(1.0274)$$

$$Aof = \underline{\hspace{2cm}} 1674 \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY J. B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

