

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 8, 1964

Operator La Plata Gathering System		Lease Riddle No. 1-27	
Location 1450'N, 1480'E, Sec. 27, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7403	Tubing: Diameter 2.375	Set At: Feet 7089
Pay Zone: From 7094	To 7308	Total Depth: 7403	Shut In 12-4-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2125	+ 12 - PSIA	Days Shut-In 4	Shut-In Pressure, Tubing, PSIG 2125
Flowing Pressure: P, PSIG 254	+ 12 - PSIA	Working Pressure: P _w , PSIG 867	+ 12 - PSIA
Temperature: T = 73 °F	F _t = .9877	F _{pv} (From Tables) 1.029	Gravity .700 F _g = .9258

CHOKE VOLUME = Q · C × P_i × F_t × F_g × F_{pv}

Q = (12.365)(266)(.9877)(.9258)(1.029) = 3095 MCF/D

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

Aof $\left(\frac{4,566,769}{3,794,128} \right)^n \cdot (1.2036)^{.75} = (1.1489)(3095) =$

Aof = 3556 MCF/D

NOTE: Medium fog distillate throughout test.

NOTE: This test was conducted after 4 days of shut-in at the request of La Plata Gathering System.

TESTED BY Jesse B. Goodwin (EPNG)

WITNESSED BY Oliver Towell (LaPlata)

CHECKED BY Tom B. Grant

