

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 16, 1965

Operator La Plata Gathering System		Lease Riddle No. 2	
Location SW Section 23, T-30-N, T-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7425	Tubing: Diameter 1.660	Set At: Feet 7155
Pay Zone: From 7162	To 7353	Total Depth: 7425	Shut In 12-9-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2040	+ 12 = PSIA 2052	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2027	+ 12 = PSIA 2039
Flowing Pressure: P PSIG 177	+ 12 = PSIA 189		Working Pressure: P _w PSIG 314	+ 12 = PSIA 326
Temperature: T = 74 °F	F _t = .9868	n = .75	F _{pv} (From Tables) 1.023	Gravity .750 F _g = .8944

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

$$Q = (12.365) (189) (.9868) (.8944) (1.023) = \underline{2,110} \text{ MCF/D}$$

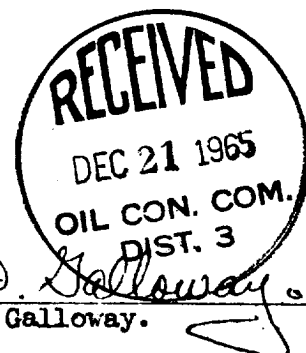
$$\text{OPEN FLOW} = A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{4,210,704}{4,104,428} \right)^n = (2110) (1.0258)^{.75} = (2110) (1.0193) =$$

NOTE: Blew medium to heavy fog of distillate and water.

$$A_{of} = \underline{2,151} \text{ MCF/D}$$

TESTED BY J.B. Goodwin (EPNG)
 CHECKED BY Tom B. Grant (EPNG)
 WITNESSED BY Oliver Towell (La Plata)



Lewis D. Galloway
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