

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 18, 1964

Operator El Paso Natural Gas Company		Lease Hudson No. 3	
Location 1650'S, 990'W, Sec. 8, T-29-N, R-12-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6283	Tubing: Diameter 2.375	Set At: Feet 6178
Pay Zone: From 6113	To 6229	Total Depth: 6283	Shut In 11-10-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2075	+ 12 = PSIA 2087	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2077	+ 12 = PSIA 2089	
Flowing Pressure: P PSIG 2861	+ 12 = PSIA 298		Working Pressure: P _w PSIG 775	+ 12 = PSIA 787	
Temperature: T = 81 °F	F _i = .9804	n = .750	F _p (From Tables) 1.035	Gravity .750	F _g = .8944

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

$$Q = (12.365)(298)(.9804)(.8944)(1.035) = \underline{3344} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,363,921}{3,744,552} \right)^n = (1.1654)^{.75} = (1.1215)(3344) =$$

NOTE: Blew light to heavy water fog with some light hydrocarbons.

$$Aof = \underline{3750} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin
Checked
WITNESSED BY Tom B. Grant

RECEIVED
NOV 20 1964
OIL CON. COM.
DIST. 3
Lewis D. Galloway
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