

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 14, 1965

Operator El Paso Natural Gas Company		Lease Huerrfano Unit No. 144	
Location 1150'S, 850'E, Sec. 31, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6992	Tubing: Diameter 2.375	Set At: Feet 6851
Pay Zone: From 6732	To 6916	Total Depth: 6992	Shut In 12-7-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Orifice Meter 2-1/2" Plate, 4" I.D.		Constant 33.293		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2000	+ 12 = PSIA 2012	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1837	+ 12 = PSIA 1849	
Flowing Pressure, PSIG Meter-143; W.F. - 372	+ 12 = PSIA Meter - 155; W.F.-384		Working Pressure: P _w PSIG 911	+ 12 = PSIA 923	
Temperature: T = 66 °F F _t = .9943	n = .75		F _{pv} (From Tables) 1.017	Gravity .710	F _g = 1.1868

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

Q = Calculated from Orifice Meter Reading = 3,533 MCF/D

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

$$A_{of} = \left(\frac{4,048,144}{3,196,215} \right)^n = (3533) (1.2665)^{.75} = (3533) (1.1940)$$

A_{of} = 4,218 MCF/D

NOTE: Well produced 32.2 bbls light distillate through Separator during test and oil was carried over throughout the test.

TESTED BY H.D. McAnally, J.B. Goodwin & Walt Cassida.
CHECKED BY
WITNESSED BY H. D. Dawson.

Lewis D. Galloway
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