

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 12, 1958

Operator: El Paso Natural Gas		Well: Huerfano 99 (D)	
Location: 990N, 1650W; 2-26-10		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Undesignated	
Casing: Diameter 5-1/2	Set At: Feet 6933	Tubing: Diameter 2"	Set At: Feet 6857
Pay Zone: From 6816	To 6908	Total Depth: 6936 c/o 6910	Shut-in 8/5/58
Stimulation Method: Sand Oil Fra.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant 12.365	5-1/2 liner 5573 - 6933	
Shut-in Pressure, Casing, PSIG 1269 (G)	12 PSIA 1281	Shut-in Pressure, Tubing, PSIG 1631 (D)	12 PSIA 1643
Flowing Pressure, Casing, PSIG 192	12 PSIA 204	Flowing Pressure, Tubing, PSIG Calc.	12 PSIA 430
Temperature, Casing, F 73	F .75	Temperature, Tubing, F 1.023	F .720

Initial SIPT (G) = 1245 psig
Final SIPC (G) = 1275 psig
Packer at 6180

CHOKE VOLUME $Q = C \times P_1 \times P_2 \times F_1 \times F_2 \times F_3$
 $C = 12.365 \times 204 \times .9877 \times .9129 \times 1.023 = 2327$ MCF/D

OPEN FLOW $Q_{OF} = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$

$Q_{OF} = \left(\frac{2699449}{2514549} \right)^n$
 $(1.0735)^{.75} (2327) = (1.0547) (2327)$

$Q_{OF} = 2454$ MCF/D

TESTED BY Frank Clark
WITNESSED BY Fred Cook
Checked By R. R. Davis

Lewis D. Galloway
L. D. Galloway



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