

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 20, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 173	
Location 990'S, 1500'E, Sec. 13, T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6800	Tubing: Diameter 2.375	Set At: Feet 6622
Pay Zone: From 6656	To 6772	Total Depth: 6800	Shut In 3-2-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches: Meter 2 1/2" Plate, 4" meter	Choke Constant: C 53.2928	Tested through 3/4" variable choke			
Shut-In Pressure, Casing, PSIG 1482	+ 12 = PSIA 1494	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1247	+ 12 = PSIA 1259	
Flowing Pressure: P Meter 134 PSIG WH 312	+ 12 = PSIA Meter 146, WH 324		Working Pressure: Pw 1191	PSIG + 12 = PSIA 1203	
Temperature: T = 88 °F	Ft = .9741	n = .75	Fpv (From Tables) 1.014	Gravity .700	Fg = 1.1952

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{PV}

Q = Calculated from orifice meter reading = 1908 MCF/D

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

Aof = $\left(\frac{2252036}{734327} \right)^n = (1908)(2.8439) = (1908)(2.1988)$

NOTE: The well produced a total of 163.11 bbls. of 41.1 API Gravity Oil.

Aof = 4198 MCF/D



TESTED BY D. R. Roberts
CALCULATED
WITNESSED BY H. E. Madrally

H. L. Kendrick
H. L. Kendrick