

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE March 14, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease Huerfano Unit No. 223	
Location 1850 N - 1840 W Sec. 4-26N-10W		County San Juan	State N. M.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7072	Tubing: Diameter 2.375	Set At: Feet 7000
Pay Zone: From 6806	To 6960	Total Depth: 7072	Shut In 3-7-72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches 4" M.R. 2.750 Plate		Choke Constant: C 41.10		Well Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1997	+ 12 = PSIA 2009	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1157	+ 12 = PSIA 1169	
Flowing Pressure: P PSIG MR 42 W/H 170	+ 12 = PSIA MR 54 W/H 182		Working Pressure: P <sub>w</sub> PSIG 609	+ 12 = PSIA 621	
Temperature: T = .87 °F F <sub>t</sub> = .9750	n = .75		F <sub>pv</sub> (From Tables) 1.003	Gravity .710 F <sub>g</sub> = 1.187	

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

Q = Calculated from Orifice meter readings = 1460 MCF/D

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

NOTE: Produced 42 Bbl. of 49 gravity oil and 21 Bbl. water in three hours.

$$Aof = \left( \frac{4036081}{3650440} \right)^n = (1460)(1.1056)^{.75} = (1460)(1.0782) =$$

Aof = 1575 MCF/D



TESTED BY Goodwin - Broughton

WITNESSED BY \_\_\_\_\_

*L. E. Mabe, Jr.*  
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