

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-28-71

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 209	
Location 1500' S, 1840' E, S 23, T26N, R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6732	Tubing: Diameter 2.375	Set At: Feet 6671
Pay Zone: From 6450	To 6670	Total Depth: 6735	Shut In 4-21-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Meter Choke Size, Inches 4" MR 2.750 plate		Meter Choke Constant: C 41.9208		well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1800	+ 12 = PSIA 1812	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1800	+ 12 = PSIA 1812	
Flowing Pressure: P PSIG MR- 59 WH- 280	+ 12 = PSIA MR- 71 WH- 292		Working Pressure: P _w PSIG 650	+ 12 = PSIA 662	
Temperature: T = 87 °F F _t = .9750	n = .75		F _{pv} (From Tables) 1.010	Gravity .715	F _g = 1.1826

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

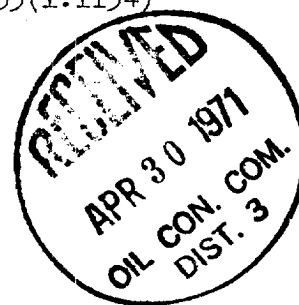
$$Q = \text{Calculated from orifice meter readings} = 2053 \text{ MCF/D}$$

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

Note: This well made 23.92 bbl. of 46° API Gravity oil during the test.

$$Aof = \left(\frac{3283344}{2845100} \right)^n = 2053(1.1540)^{.75} = 2053(1.1134)$$

$$Aof = 2286 \text{ MCF/D}$$



TESTED BY B. J. Broughton & R. J. Hardy

WITNESSED BY _____

H. L. Kendrick
H. L. Kendrick