

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 3, 1971

Operator EL PASO NATURAL GAS COMPANY		Lease Huerfano Unit No. 210	
Location 800'S, 1780'E, Sec. 35, T-27-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6964	Tubing: Diameter 2.375	Set At: Feet 6876
Pay Zone: From 6722	To 6888	Total Depth: 6964	Shut In 5-24-71
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches 4" MR 2.750" Plate		Choke Constant: C 41.9208		Well tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1895	+ 12 = PSIA 1905	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1276	+ 12 = PSIA 1288	
Flowing Pressure: P 251 W/H (64 mtr) PSIG	+ 12 = PSIA 263 W/H 76 mtr		Working Pressure: Pw 697 PSIG	+ 12 = PSIA 709	
Temperature: T = 84 °F	n = 0.75		Fpv (From Tables) 1.010	Gravity .700	Fg = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 2328 \text{ MCF/D}$$

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

Note: Well Produced 34.32 bbls.
of 45.8 Gravity Oil.

$$Aof = \left(\frac{3,629,025}{3,126,344} \right)^n = (1.1608)^{.75}(2328) = (1.1183)(2328)$$

$$Aof = 2603 \text{ MCF/D}$$

TESTED BY D. R. Roberts - R. R. Hardy

WITNESSED BY



H. E. Kendrick
H. E. Kendrick