

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-16-71

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 215	
Location 1090' N, 1840' W, S 9, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6919	Tubing: Diameter 2.375	Set At: Feet 6811
Pay Zone: From 6715	To 6822	Total Depth: 6919	Shut In 7-7-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Casing Size, Inches 4" MR		Choke Constant: C 2.750" plt. 41.9208		well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2005	+ 12 = PSIA 2017	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1497	+ 12 = PSIA 1509	
Flowing Pressure: P 48 MR 240 WH	+ 12 = PSIA 60 MR 252 WH		Working Pressure: P _w PSIG 630	+ 12 = PSIA 642	
Temperature: T = 80 °F	n = Ft = .9813		Fpv (From Tables) 1.003	Gravity .715	Fg = 1.1826

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 1594 \text{ MCF/D}$$

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

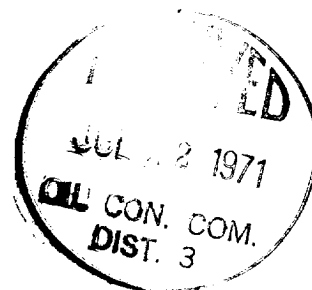
Note: Well made 40.56 bbls. of 42.5 API oil.

$$Aof = \left(\frac{4068289}{3656125} \right)^n = 1594(1.1127)^{.75} = 1594(1.0834)$$

$$Aof = 1727 \text{ MCF/D}$$

TESTED BY B. J. Broughton & C. R. Wagner

WITNESSED BY


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