

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE 10-2-69

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 199	
Location 1750 E. 990 W. S 17, T25N, R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6684	Tubing: Diameter 2.375	Set At: Feet 6477
Pay Zone: From 6517	To 6549	Total Depth: 6684	Shut In 9-20-69
Stimulation Method SNF		Flow Through Casing	Flow Through Tubing XX

meter Choke Size, Inches 4" MR 2.750 plate		Choke Constant: C 41.9208		Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 825	+ 12 = PSIA 839	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1889	+ 12 = PSIA 1901	
Flowing Pressure: P PSIG 95 WH, 20 MR	+ 12 = PSIA 107 WH, 40 MR		Working Pressure: P _w PSIG CALC	+ 12 = PSIA 194	
Temperature: T = 84 °F	n = Ft = .9777		Fpv (From Tables) 1.003	Gravity .700	Fg = 1.052

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

$$Q = \text{Calculated from orifice meter readings} = 1203 \text{ MCF/D}$$

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

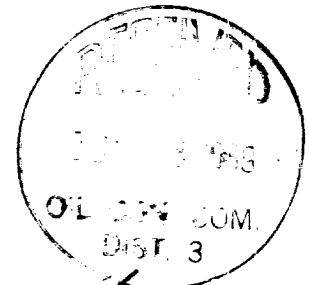
Note: The well produced 6.71 bbls of 48.6 API Gravity oil during the test.

$$Aof = \left(\frac{3613801}{3576165} \right)^n = (1203)(1.0105)^{.75} = (1203)(1.0078)$$

$$Aof = 1212 \text{ MCF/D}$$

TESTED BY Bobby J. Broughton

WITNESSED BY



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