

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-17-71

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 59	
Location 1460'N, 1800'E, S 4, T27N. R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8641	Tubing: Diameter 1.990	Set At: Feet 8586
Pay Zone: From 8408	To 8572	Total Depth: 8641	Shut In 6-8-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2599	+ 12 = PSIA 2611	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2599	+ 12 = PSIA 2611	
Flowing Pressure: P PSIG 163	+ 12 = PSIA 175		Working Pressure: P _w PSIG 347	+ 12 = PSIA 359	
Temperature: T = 61 °F	n = .75		F _{pv} (From Tables) 1.015	Gravity .625	F _g = .9798
F _t = .9990					

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

$$Q = 12.365 \times 175 \times .9990 \times .9798 \times 1.015 = 2150 \text{ MCF/D}$$

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

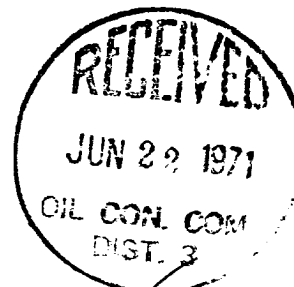
Note: Well blew light spray of water & distillate throughout test.

$$A_{of} = \left(\frac{6817321}{6688440} \right)^n = 2150(1.0192)^{.75} = 2150(1.0144)$$

$$A_{cf} = 2181 \text{ MCF/D}$$

TESTED BY R. R. Hardy

WITNESSED BY



H. L. Kendrick
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