

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE July 27, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 159	
Location 800'S, 1450'W, Sec. 18, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4.500	Set At: Feet 7870	Tubing Diameter 1.990	Set At: Feet 7840
Pay Zone: From 7833	To 7838	Total Depth: 7870	Shut In 7-15-71
Method Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2550	+ 12 = PSIA 2562	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 2578	+ 12 = PSIA 2590	
Flowing Pressure: P PSIG 350	+ 12 = PSIA 362		Working Pressure: P _w PSIG 510	+ 12 = PSIA 522	
Temperature: T = 77 °F	F _t = .9840	n = 0.75	F _{pv} (From Tables) 1.029	Gravity 0.620	F _g = .9837

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

$$Q = (12.365)(362)(.9840)(.9837)(1.029) = 4458 \text{ MCF/D}$$

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

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

$$Aof = \left(\frac{6708100}{6435616} \right)^n = (4458)(1.0423)^{.75} = (4458)(1.0315)$$

$$Aof = 4599 \text{ MCF/D}$$



TESTED BY D. R. Roberts

WITNESSED BY

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