

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 2, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 164	
Location 830/S, 1180/W, Sec. 34, T 28N, R 6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7970	Tubing: Diameter 1.900	Set At: Feet 7868
Pay Zone: From 7692	To 7888	Total Depth: 7970	Shut In 7-18-72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2639	+ 12 = PSIA 2651	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2610	+ 12 = PSIA 2622	
Flowing Pressure: P PSIG 319	+ 12 = PSIA 331		Working Pressure: P _w PSIG 665	+ 12 = PSIA 677	
Temperature: T = 64 °F	n = Ft = .9962		F _{pv} (From Tables) 1.028	Gravity .620	F _g = .9837

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

$$Q = (12.365)(331)(.9962)(.9837)(1.028) = 4123 \text{ MCF/D}$$

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

NOTE: Well produced a medium spray of distillate and water throughout the test.

$$Aof = \left(\frac{7027801}{6569472} \right)^n = (4123)(1.0698)^{.75} = (4123)(1.0519)$$

$$Aof = 4337 \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY



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