

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 3-23-71

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 101	
Location 990N, 940 E, S 36, T29N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7907	Tubing: Diameter 1.990	Set At: Feet 7835
Pay Zone: From 7607	To 7836	Total Depth: 7907	Shut In 3-14-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2587	+ 12 = PSIA 2599	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2587	+ 12 = PSIA 2599	
Flowing Pressure: P PSIG 253	+ 12 = PSIA 265		Working Pressure: P _w PSIG 453	+ 12 = PSIA 470	
Temperature: T = 72 °F	n = Ft = .9887		Fpv (From Tables) 1.020	Gravity .600	Fg = 1.000

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

$$Q = (12.365)(265)(.9887)(1.000)(1.020) = \underline{3304} \text{ MCF/D}$$

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

Note: Well produced a medium spray of water throughout the test.

Corrected copy.

$$A_{of} = \left(\frac{6754801}{6533901} \right)^n = (1.0338)^{.75}(3304) = (1.0252)(3304)$$

$$A_{of} = \underline{3387} \text{ MCF/D}$$

TESTED BY DRR & BRH

WITNESSED BY _____

H. L. Kendrick
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