

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 4, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 142	
Location 990N - 1460 E Sec. 33-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7676	Tubing: Diameter 1.900	Set At: Feet 7644
Pay Zone: From 7480	To 7586	Total Depth: 7676	Shut In 4-24-72
Stimulation Method SWF		Flow Through Casing XXXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2552	+ 12 = PSIA 2564	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2042	+ 12 = PSIA 2054	
Flowing Pressure: P PSIG 207	+ 12 = PSIA 219		Working Pressure: Pw PSIG 532	+ 12 = PSIA 544	
Temperature: T = 70°F	n = Ft = .9905		Fpv (From Tables) 1.020	Gravity .655	Fg = .9571

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

$$Q = (12.365)(219)(.9905)(.9571)(1.020) = \underline{2618} \text{ MCF/D}$$

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

NOTE: The well blew heavy fog of water.

$$Aof = \left(\frac{6574096}{6278160} \right)^n = (2618)(1.0471)^{.75} = (2618)(1.0351)$$

$$Aof = \underline{2710} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



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