

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 7, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 70	
Location 1450'S, 1175'W, Sec. 34, T-28-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7880	Tubing: Diameter 2.375	Set At: Feet 7610
Pay Zone: From 7628	To 7832	Total Depth: 7880	Shut In 8-18-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2498	PSIG	+ 12 = PSIA 2510	Days Shut-In 20	Shut-In Pressure, Tubing 2485	PSIG
Flowing Pressure: P 251	PSIG	+ 12 = PSIA 263		Working Pressure: P _w 946	PSIG
Temperature: T = 75 °F		n = .75		F _{pv} (From Tables) 1.028	Gravity .700
	F _t = .9859				F _g = .9258

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

$$Q = (263)(12.365)(.9859)(.9258)(1.028) = \underline{3051} \text{ MCF/D}$$

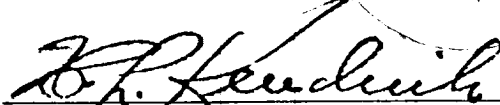
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{6300100}{5382336} \right)^n = (3051)(1.1705)^{.75} = (1.1252)(3051)$$

NOTE: Blew heavy fog of light distillate and water throughout the test.

$$Aof = \underline{3433} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCHECKED
WITNESSED BY H. E. McAnally


 H. L. Kendrick