

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 3, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 138	
Location 1850'N, 1650'E, Sec. 23, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Bakken		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7845	Tubing: Diameter 2.375	Set At: Feet 7575
Pay Zone: From 7500	To 7794	Total Depth: 7845	Shut In 7-20-67
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, PSIG 2740	+ 12 = PSIA 2752	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2752	+ 12 = PSIA 2764	
Flowing Pressure: P PSIG 334	+ 12 = PSIA 396		Working Pressure: P _w PSIG 1335	+ 12 = PSIA 1347	
Temperature: T = 78 °F	n = .75		F _{pv} (From Tables) 1.034	Gravity .640	F _g = .9682

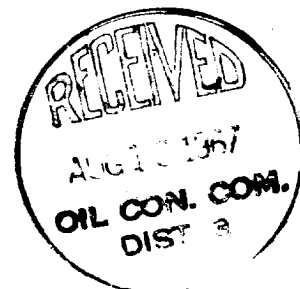
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(396)(.9831)(.9682)(1.034) = \underline{4819} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7639696}{5825287} \right)^n = (4819)(1.3114)^{.75} = (4819)(1.2255)$$

$$Aof = \underline{5906} \text{ MCF/D}$$

TESTED BY D. NortonCALCULATED
WITNESSED BY A. J. LoleitCHECKED BY H. E. McAnally
H. L. Kendrick
H. L. Kendrick