

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 3, 1957

Operator El Paso Natural Gas		Lease San Juan 32-8 Unit No. 25-33	
Location 1090'N, 1600'E, Sec. 33-32-8		Country San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3627	Tubing: Diameter 2"	Set At: Feet 6055
Pay Zone: From 5664	To 6072	Total Depth: 6095 - c/o 6080	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		5-1/2" liner. 3594 - 6090	
Shut-In Pressure, Casing, PSIG 1032	12 = PSIA 1044	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 1033	+ 12 = PSIA 1045
Flowing Pressure, P, PSIG 223	12 = PSIA 235		Working Pressure, P _w , PSIG 560	+ 12 = PSIA 572
Temperature: T, °F 72			Fpv (From Tables) 1.016	Gravity .590

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = 12.365 \times 235 \times .9887 \times 1.008 \times 1.016 = 2942 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,092,025}{764,841} \right)^n \quad 1.4277^{.75} \times 2942 = 1.3066 \times 2942$$

$$A_{of} = 3044 \text{ MCF/D}$$

TESTED BY R. R. DavisWITNESSED BY C. R. Wagner, Pacific Northwest

L. D. Galloway
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