

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE **September 22, 1961**

Operator El Paso Natural Gas Company	Lease San Juan 27-5 No. 68 (PC)
Location 890'N, 990'E, Sec. 33-27N-5W	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool So. Blanco PC
Casing, Inside Diameter 7" O.D. Set At Feet 3440	Tubing, Outside Diameter 1-1/4" O.D. Set At Feet 3295
Pay Zone: From 3258 To 3314	Total Depth 5599 C/O 5560 Shut In 8-23-61
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches .75	Choke Constant, C 12.365	4,500", 9.50 lbs. Liner from 3324 to 5596
Shut-In Pressure, Casing, PSIG 992	PSIG $\times 12$ PSIA 1004 Days Shut-In 30	Shut-In Pressure, Tubing, PSIG 992 PSIG $\times 12$ PSIA 1004
Flowing Pressure: P, PSIG 77	PSIG $\times 12$ PSIA 89	Working Pressure: P _w , PSIG 80 PSIG $\times 12$ PSIA 92
Temperature: T, °F 57	n 1.0029	Eqv (From Tables) 1.009 Gravity .650 Eqv .9608

Initial SIPT (MV) = 1151 psig

Final SIPT (MV) = 1152 psig

CHOKE VOLUME $Q = C \times P_r \times F_v \times F_g \times F_{nv}$

$$Q = (12.365)(89)(1.0029)(.9608)(1.0084)$$

1070 MCF/D

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

$$A_{of} = \left(\frac{1,008,016}{999,552} \right)^n \quad (1070)(1.0084)^{.85} = (1070)(1.0071)$$

A_{of} 1078 MCF/D

NOTE: Blew dry gas.

REVIEWED BY **C. R. Wagner**

WITNESSED BY

Calculated by: **W. D. Dawson**

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