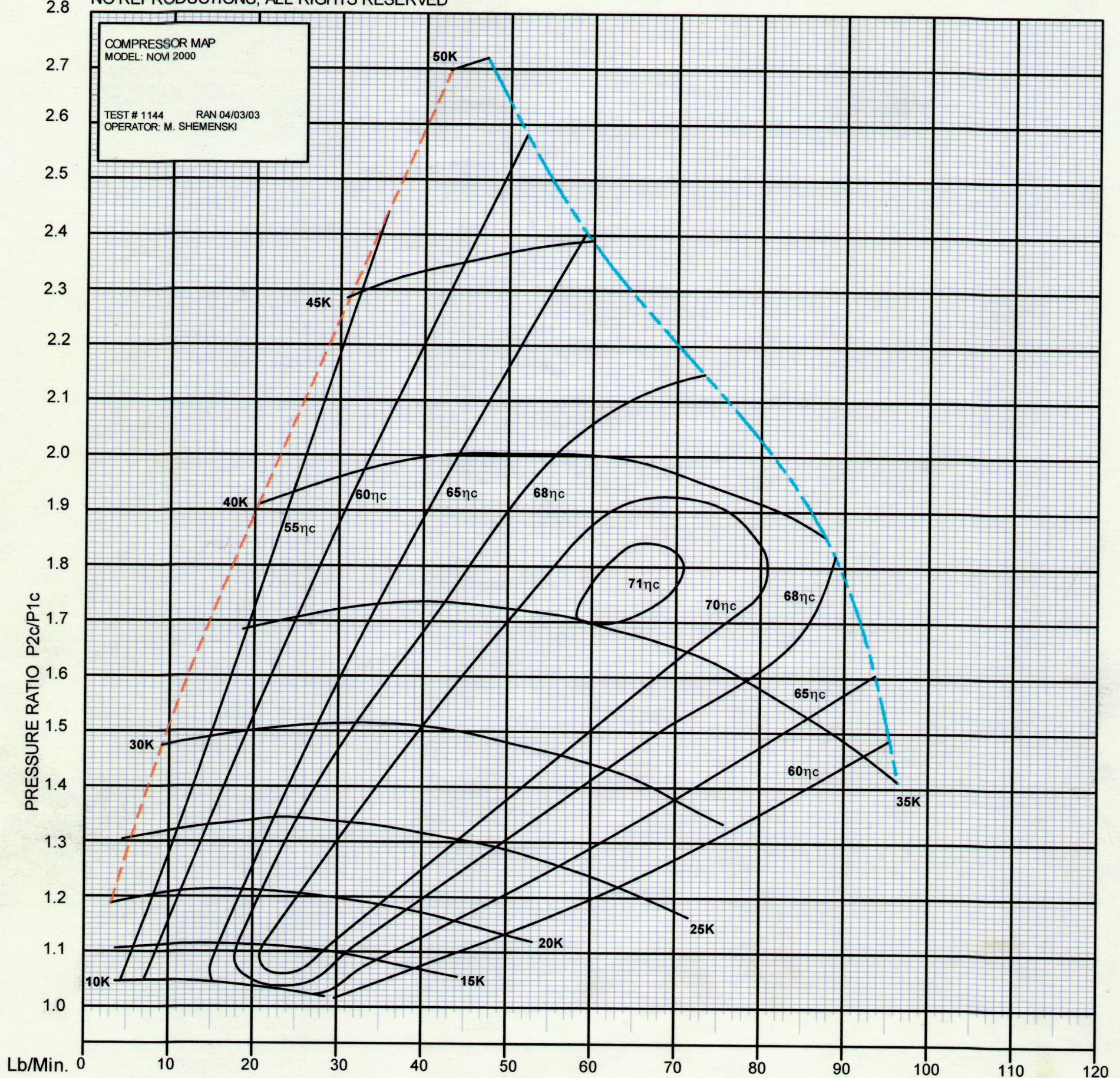


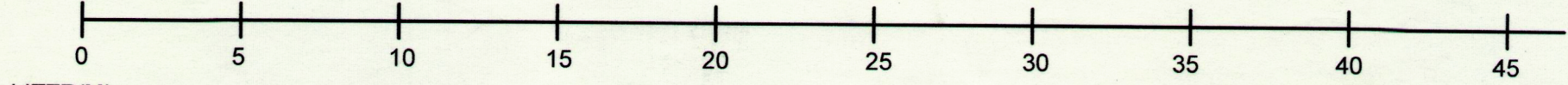
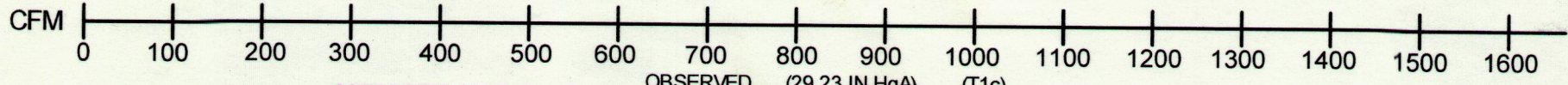
PAXTON AUTOMOTIVE CORP.

COMPRESSOR PERFORMANCE MAP

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$$\text{CORRECTED MASS FLOW} = W \sqrt{T_i / 537 \text{ } ^\circ\text{R}} / (P_i / 29.23)$$



$$\text{CORRECTED AIR FLOW (LITER/MIN. X 1000)} = \frac{\text{OBSERVED AIR FLOW} \times (99\text{kPa})}{\text{BP}} \times \frac{(T_i)}{298.15 \text{ } ^\circ\text{K}}$$

PERFORMANCE OBTAINED AND CORRECTED IN ACCORDANCE WITH SAE J1723
TEMPERATURE DIFFERENTIAL $T_o - T_i$ ($^\circ\text{K}$)

η_c = COMPRESSOR ISENTROPIC EFFICIENCY (%)
 P_i = COMPRESSOR INLET AIR ABSOLUTE PRESSURE (kPa)
 P_o = COMPRESSOR DISCHARGE AIR ABSOLUTE PRESSURE (kPa)
 T_i = COMPRESSOR INLET AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)
 T_o = COMPRESSOR DISCHARGE AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)

$$\eta_c = \frac{(T_i)^{\gamma} (P_o)^{1-\gamma}}{(T_o)^{\gamma} (P_i)^{1-\gamma}} \times 100\%$$