From J.W. Keyes and F. D. Hains, "Analytical and Experimental Studies of Shock Interference Heating in Hypersonic Flows", NASA-TN-D-7139, May 1973. Original photos duplicated by NASA Langley photo archive, here scanned into gray scale at 300 dpi.

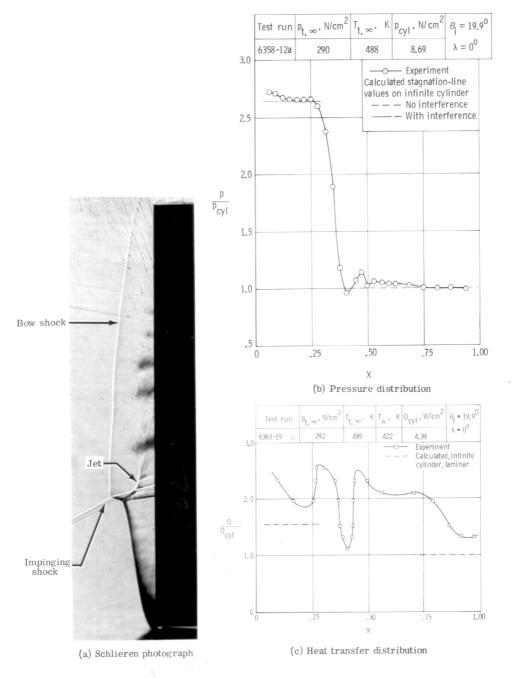


Figure 1-27.- Type IVa interference on a fin at Mach 6 in air. Θ $_i$ = 19.90, $N_{Re,\infty}/m$ \approx 25.8 x 100, γ = 1.4.

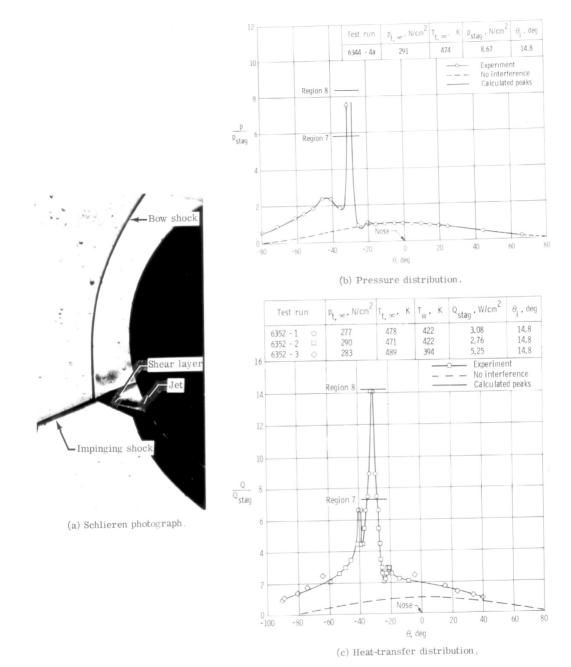


Figure I-22.- Type IV interference on a 0.051 m diameter hemisphere at Mach 6.00 in air. Θ_i = 14.8°, $N_{Re,\infty}$ /m \approx 25.7 x 106, γ = 1.4.