

FIG. 163—FLIGHT GRAPH

curve and time curve (to be drawn) separated, thus permitting easier reading.

- f. On the zone lines mark the total forecast time to the end of each zone (Flight Plan) and draw in the *time vs. miles* curve.
- g. On the zone lines mark the total return fuel used to the end of each return zone (Return Flight Plan), and commencing at point of full tanks, draw in the two-engine return dry tanks curve. The intersection of this curve, extended, with the fuel vs. miles curve locates the PN.
- h. From the point of dry tanks (at destination), draw a line parallel to the fuel vs. miles curve. This line is the *two engine ahead dry tanks* curve. The point at which the two dry tanks curves intersect represents the absolute maximum amount of fuel the aircraft can consume and still return or go ahead to destination
- i. Determine amount of fuel remaining point where dry tanks curves intersect, and fr this point, at a distance equal to 40% of the remaing fuel, locate a second point vertically I neath the point of intersection.
- j. Obtain from fuel consumption cur (Figure 162) amount of fuel required for fir two hours cruising. Mark this amount Flight Graph below full tanks and empty to points and draw in 40% to 2 hours reserve and and return curves. These curves represent saflying curves, and any position below the curves would be considered safe.
- k. In airline operations it is especially in portant also to plot on the Flight Graph to maximum amount of reserve fuel required arrival at destination. As an example, for