## Praseodymium

Above about 600 °C at all pressures up to 70 kilobars a compound was formed whose X ray diffraction pattern could be matched line for line to the LaSb2 type orthorhombic pattern for NdSb2 given by Wang (25). It was concluded that PrSb2 had been synthesized. This compound had not been reported previously. No other reaction products were observed.

# Neodymium

Only LaSb2 type NdSb2 was observed above 600 °C for all pressures up to 70 kilobars. NdSb2 was identified by comparing its X ray powder diffraction pattern with the pattern given by Wang (25).

#### Samarium

Only LaSb2 type SmSb2 was obtained above 600 °C for all pressures up to 70 kilobars.

### Europium

A white or yellow powder plus antimony was obtained for all conditions above 400 °C and up to 70 kilobars. The powder was not definitely identified but was probably a europium oxide.

### Gadolinium

Several different reaction products were obtained in this case. The reaction product diagram is shown in Figure