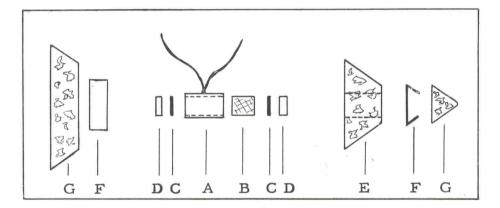
EXPERIMENTAL PROCEDURE (SPECIFIC)

LEAD

Sample Geometry:

All of the runs on lead were made in the small press. A drawing of the tetrahedron prepared to receive a sample can be seen in Figure 4. Two opposite ends of the tetrahedron are sliced off and a hole drilled through the center of the middle piece. (See Figure 4.) This hole will contain the sample and its respective heating and temperature detection devices.



- A Tantalum tube with thermocouple wires spotwelded to side.
- B Lead sample.
- C Tantalum disk.
- D Nickel end plug.
- E Body of tetrahedron.
- F Steel end tab.
- G Sliced-off edge of tetrahedron.

Fig. 4. - Sample geometry for lead

The successful runs with lead were obtained in the following manner: The sample, lead, was encased in a tantalum tube, 0.010" wall thickness and 0.125" outside diameter. The ends of the tube were sealed with a thin tantalum disk and a nickel disk, the tantalum being next to the sample. A platinum-platinum 10% rhodium thermocouple junction