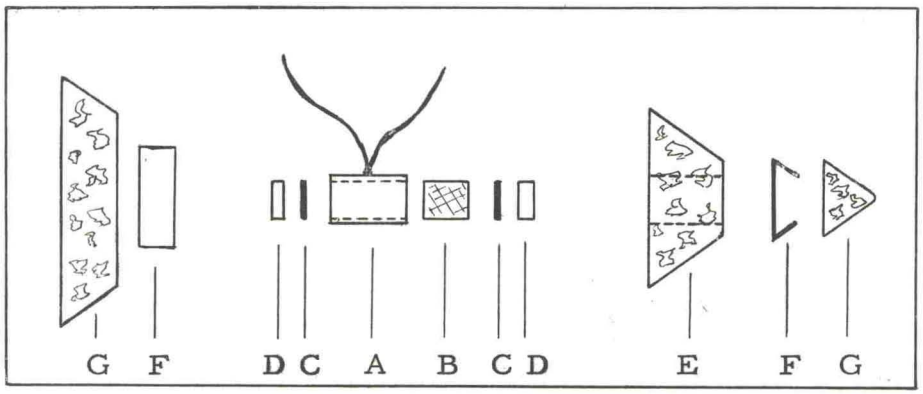
EXPERIMENTAL PROCEDURE (SPECIFIC)

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