Graphite - Western States Mining and Milling Co.
(Norman R. Johnson, J. R. Shull, Thomas R. Haggard, and
Paul L. Jones)
Sec. 12, T. 19 N., R. 72 W., Canyon W. of Plumbago (1 mile)

The graphite is chiefly crystalline although some apparently is amorphous. It occurs largely in schist and in a gray limestone (?); some occurs in a porphyritic-looking rock which may actually be a sediment containing authigenic feldspar crystals.

The deposit is irregular, pinching and swelling typical of metamorphic properties. The graphite averages 2 to 5 feet in width and thickness. Mr. Shull says the assays run from 6 to 18% graphite - average about 12%.

The Denver Equipment Co. and Oscar Briebeck, both of Denver, have done flotation tests on the ore and they show a favorable flow-sheet having some difficulty with grit. Kerosene and pine oil are used in flotating the graphite. (Some kerosene and glycerine gone - best results.)

The Aluminum Corp. of America has an option on the property and sent Mr. Bancroft out to investigate. (He also examined the Luck graphite and was unfavorably impressed - according to Mr. Shull.)
Western States Mining & Dressing Co.
(Norman R. Johnson, J. R. Smith, Thomas C. Haggard,
8. 9-62, and Max C. Jones)
S 1/2 T 12 N R 72 W, Canyon W. of Cline Ave. 92 (Sec. 31)

The graphite is mostly crystalline although some apparent,
conglomerate. It occurs largely in chert and as a
gray, brecciated (b) in some cases in a phyllite-like bedding
which may actually be a sediment containing
authigenic fill in the crystals.

The deposit is irregular, tabular and swelling,
Typical of metamorphic properties. The graphite occurs
at first in white and thickness. Mr. Smith says
the assays range from 6 to 13.9% graphite - average
about 12%

Mr. Denver Equipment Co. and Oscar Fricke, both
of Denver, have been testing ore on the ore and
they show a favorable flow sheet having some
difficulty with grit. Pressure and grade are small
in floating the graphite. Some heavy materials are
sent over.

The Allegheny Corp. of America has one of the
ore on the property and sent Mr. Barret out to
investigate. He also examined the rock, graphite
was possibly, not possible - according to Mr. Smith.