

A. F. Hagner, 1942

MR 42-11

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 authogenic 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 & Milling Co.

Graphite

(Norman R. Johnson, J. R. Skull, Thome R. Haggard,
 & Paul L. Jones)

S 12 T 19 N R 72 W Canyon W. of Plumbago (1/2 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. Skull says the assays run from 6 to 18% graphite - average about 12%.

The Denver Equipment Co. and Oscar Briebach, 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 flotation of the graphite. (Some hexane & glycerine were used in the tests.)

The Aluminum Corp. of America has an option on the property and sent Mr. Bancroft out to investigate. (He also examined the Lusk graphite - was unimpressably impressed - according to Mr. Skull.)