J. S. A. (Shawnigan). Dana's "Handbook on Mineralogy," and Schaltes' "Outlines of Geology," published by the Scientific Publishing Co. of New York, price \$1.50 each, are Derbare the best forwards. perhaps the best for your purpose.

A. H. C. (Concord, N. H.) We propose to publish an index this year, but hitherto have not done so.

V.O.W.S. (New York)-We shall be very happy to do as you suggest.

PUBLICATIONS.

THE Pittsburg Reduction Company, of Pittsburg, Pa., have published a very neat little volume of nearly 300 pages devoted chiefly to the manufacture and properties of aluminum, althout although the book also contains much other useful matter such as comparative tables of weights and measures; metric weights and English equivalents; metric conversion tables and information of a like character. The price is unfortunately not stated.

"Silver mining in the Reco" is the title of a handsomely "Silver mining in the Reco" is the title of a nanosomery illustrated pamphlet containing the first report issued by the Reco Mining and Milling Company and compiled by the president, Mr. J. M. Harris, of Sandon. The "Reco" group must undoubtedly be included as among the profitably worked silver-lead mines of the Slocan, and, as much of the information to be found in the report is new, we take the liberty of containing as follows:

take the liberty of quoting as follows:

LOCATION.

The property is located on Reco Mountain, in the heart of the celebrated silver-lead mineral belt of British Columbia, described as the "Slocan." It is at present reached from the total four miles in town of Sandon by a graded switch-back trail, four miles in lange length, though in reality the distance to the mine is less than 10,000 feet, and will be spanned by an aerial tramway during the approaching season.

EQUIPMENT.

The mine is equipped with sleeping and dining accommo-dations for 200 miners. The original boarding house, erected at a cost of \$2,000, was soon found to be inadequate and another, which is at present the most complete and commodious in the Slocan, was built at an additional outlay of \$5,000.

The six ore houses on the property represent an investment of \$3 000, while a similar amount of money was expended on the trails.

In the seven tunnels twelve pound rails are used for track.

VEINS.

What are described as the "leads" in the Slocan belt are in most instances well defined fissures that have in their mineralized origin cut the slate formation at right angles to depths yet unknown and unexplored. It is characteristic of them that that great width is a guarantee that large chutes of concen-trating ore exist; while conversely in tight and narrow veins, where the fissure is unmistakable, the cavity usually contains mineral of an extraordinary high grade.

Two of the three leads uncovered on the property up to third may be classified as of the latter description. Of the third or No 3 Wm A. third, known as the Reco-Goodenough lead, or No. 3, Wm. A. Carlyle, provincial mineralogist, in his official report for 1896, save.

Bays: From the small, or Reco-Goodenough vein, lying several bund of the small, or Reco-Goodenough vein, lying several bund of the small of the score the richest silver bearing hundred feet to the east, has come the richest silver bearing Rales Ralena yet found in the Kootenay; the silver evidently occur-of the solid galena. * * The ore so lies that generally the ground distribution of the solid galena. * * The ore so lies that generally the ground galena. * * * The ore so lies that generally the ground can be mined out along it (the vein), leaving the ore to be for the backer down clean. * * * The ore ore to be afterwards broken down clean. while mined from a small vein is very profitable."

The Reco-Goodenough lead crosses the Reco and Texas claims. What is known as the "Big Lead" or "Ruecau West and southwest course. It is traceable through the west and southwest course. It is traceable through the claims 't Ephraim,'' "Ruecau,'' 'Olifton'' and adjoining the provide the source preserving in places forty feet Texas," "Ephraim," "Ruecau," "Olifton" and adjoining claims. It is a large fissure, measuring in places forty feet between walls, and having an average width in the under-tensive bodies of galena, averaging 175 ounces of silver and "Big Lead" can be prepared for smelting to the best advan-by concentration, and for that reason its product has tage by concentration, and for that reason its product has been reserved until the mill to be erected by the company for that purpose is in operation. The several thousand tons on thus reduced 175 ownees silver and 75 per cent. lead to the this reduced 175 ounces silver and 75 per cent. lead to the

The Texas lead, paralleling the Big Lead 700 feet to the west, and having the same strike and dip as No. 2 and No. 3 leads, traverses the Clifton, New Denver, Ephraim and Texas claims. Several tons of ore on the Texas dump will average 400 ounces silver and 60 per cent. lead. Only assessment work has been done on this lead, because of the difficulties and hardships of development, until such time as the tramway and concentrator plans of the company have been carried out.

SHIPMENT AND PRODUCTION.

The subjoined table showing the production of the mine is compiled from Smelter statements. The total weight of shipments is given annually in pounds, though it should be explained that ore has been taken out only during three winter months each year, owing to the lesser cost of trans-porting over snow trails. For each year the average yield of ounces of silver and per cent lead per ton is shown, as well as the average value of silver per ounce and the price for lead. From the total of values all incidental expense for shrinkage, transportation charges, treatment and duty has been deducted.

YEAR.	Shipm'nts Net Weight.	Mill Assay.		Price.		
		Silver Ozs.	Lead per Cent.	Silver	Lead	*Net Values.
1894 1895 1896 †1897	146,436 636,313 856,557 1,178,749	175.9 251.2 307.7 308.9	75.7 43.4 36.0 42.7	62.62 63.40 67.53 64.33	$3.15 \\ 3.03 \\ 2.96 \\ 2.98$	\$ 7,100.91 45,448.53 79,081.85 108,402.28
Total,	2,818,055					\$239,970.37

*Receipts from the smelters after deductions of 5 per cent. silver, 10 per cent. lead,-for smelting loss-duty on lead, and freight and cost of treatment.

†Including only the first three months of the year.

fincluding only the first three months of the year. Pursuing an analysis of the returns it is found that the mine has shipped in the four years of its development 1,690 tons of ore, from which have been extracted as a net yield for the company 16.8 tons of silver and 598½ tons of lead. The ounces of silver were 404,035 and the pounds of lead 1,196,987. The entire product of the two classes of ore treated has averaged 239 ounces silver and 42.47 per cent. lead to the ton. The aggregate of deductions for freight and treatment (not inclusive of the cost of packing from the mine to the railroad

inclusive of the cost of packing from the mine to the railroad warehouses) \$42,200, for duty \$9,884.20; for smelter losses of lead \$3,620.85 and silver \$13.131.02 brings the gross value up to \$308,806.44 or \$182.70 per ton. The net value, or profit to the company for the ore, at the point of shipment, averaged company for the ore, at the point of shipment, averaged \$141,993 per ton—a showing that would be exceptional even in the case of a first-class gold mine. Put in still another form the first and second classes of the Reco ore average together in value at point of shipment 10.95 cents per pound gross, and 8.50 cents per pound net.

DIVIDENDS.

The following table shows the date and amount of Reco dividends paid to May 1, 1897:

1895	\$ 7,500
1896	30,000
1897, February 15th	100.000
1897, April 30th	50,000

Since this report has been tabulated another dividend of \$100,000 was declared by the management from the proceeds of ore taken out; and larger bodies of ore have been opened up, and regular dividends are now assured for several years from the ore already in sight.

THE ORES.

While lead is the predominating metal in the Reco, as it is in the Slocan mines generally, the ores show extraordinarily high averages of silver value in all the veins.

From No. 2 vein smelter shipments I. (first-class), showing the average of \$104.20 net profit for all the tonnage treated, the average of \$104.20 net profit for all the tonnage treated, are of coarse and medium grain galena; and II. (second-class) are vari-coloured carbonates, averaging in net profit \$61.05 per ton. One odd variety of ore found in No. 1 tunnel runs \$400 to the ton. It is a peculiar blend of grey copper and galena that resembles hematite of iron. Stibnite, which ignites and largely evaporates in its own flames, is also dis-classed in quantities in this year. It runs 160 ounces of silver closed in quantities in this vein. It runs 160 ounces of silver