

February 21st.—Reduction of silver from silver chloride; for Messrs. Souness and Gamble, Dunedin.

February 25th.—Two samples of concentrates from quartz-crushing, assayed for gold; for Mr. D. Reid, Dunedin.

March 6th.—Assay of concentrates from quartz-crushings for gold; for Mr. D. Reid, Dunedin.

March 6th.—Assays of two samples of quartz for gold; for Mr. Rapphaels and party, Dunedin.

March 20th.—Assays of two samples of quartz for gold; for Mr. Donald Reid, jun., Dunedin.

April 4th.—Assay of sample of quartz for gold; for Mr. Donald Reid, jun., Dunedin.

(Work done by Mr. Wilkinson.)

April 7th.—Complete analysis of scheelite; for Lammerlaw Antimony Mining Company.

April 26th.—Assay of sample of quartz for gold; for Mr. Donald Reid, jun., Dunedin.

April 28th.—Three assays of samples of quartz for gold; for Mr. W. E. Toase, Dunedin.

May 1st.—Assay of concentrates from quartz-crushing for gold; for Mr. D. Reid, Dunedin.

May 5th.—Estimation of silica in nine samples of crushed stone, to determine whether the powders were crushed flints, felspar, or Cornish stone; for Milton Pottery Works.

May 23rd.—Assays of two samples of pyrites—one from a white reef, the other from a red reef; for Mr. Toase, Dunedin.

June 19th.—Assays of two samples of quartz for gold; for Mr. J. P. Smith, Dunedin.

June 19th.—Assay of pyritiferous quartz for gold; for Mr. A. Maxwell, Dunedin.

June 19th.—Assay of sample of bluish-grey quartz for gold; for Mr. A. Maxwell, Dunedin.

June 23rd.—Three assays of samples of black ironsand, from dredges, for gold; for Mr. A. Maxwell, Dunedin.

July 12th.—Two assays of samples of quartz, from Wilson's River, West Coast, for gold; for Mr. E. W. Melland, Dunedin.

July 18th.—Two assays of samples of quartz, from Barewood, for gold; for Messrs. Donald Reid and Co., Dunedin.

July 24th.—Five assays of five samples of tin-ore concentrates for tin; for Rex Hill Mining Company, Tasmania.

July 27th.—Assay, for gold, of a sample of Barewood quartz; for Messrs. D. Reid and Co., Dunedin.

July 27th.—Assay, for gold, of concentrates and blanketings; for Messrs. D. Reid and Co., Dunedin.

August 5th.—Assay, for gold, of a sample of tailings; for Messrs. D. Reid and Co., Dunedin.

*Not Charged For.*

(Work done by Mr. Waters.)

December 28th.—Assay of a sample of quartz, for gold; for Mr. J. Allen, Dunedin.

December 29th.—Assay of a sample of pyrites, for gold; for Mr. J. Allen, Dunedin.

March 15th.—Assay of stream-tin; for Mr. Hooker, Dunedin.

(Work done by Mr. Wilkinson.)

April 13th.—Assay of sample of quartz, for gold; for Mr. C. McQueen, Dunedin.

April 13th.—Assay of tin-ore; for Mr. C. McQueen, Dunedin.

May 20th.—Determination of ash in carbonaceous clay; for Mr. McAdam, Dunedin.

July 13th.—Determination of coking properties and ash of a sample of coal; for Mr. Melland, Dunedin.

*Determination of Rock and Mineral Specimens.*

(Made by myself.)

A boulder found at Taukupu, Catlin's District, supposed to be a meteoric stone, proved on examination of thin sections under the microscope to be an aphanite-breccia.

Eight specimens of minerals and rocks, from the Raggedy Range, supposed to contain malachite and tin-ore, sent by the Hon. V. Pyke, proved to be simply ferruginous schist and sandstone.

Three specimens from Dusky Sound, supposed to be tin-ore, handed me by Captain Malcolm, proved to be pyrrhotite.

A sample of black sand, from Low Rocky Cape and head of Davey River, Tasmania, forwarded by Mr. Alfred Taylor, proved to be rutile.

A sample of a black mineral, found near Seacliff Lunatic Asylum, forwarded by editor of *Witness*, proved to be hornblende.

A specimen of a heavy white mineral, handed me by Dr. Hocken, proved to be scheelite.

A specimen of a dark rock, found at Gibbston, Kawarau River, forwarded by editor of *Witness*, proved on examination of thin sections under the microscope to be basalt, rich in olivine.

A metallic mineral, found in brown coal, near Gore, forwarded by editor of *Witness*, proved to be marcasite, or white iron-pyrites.

June 28th.—Mineral, found on a range near Dunedin, forwarded by editor of *Witness*, proved to be gypsum.

July 14th.—Mineral, forwarded by Andrew Donaldson, Beaumont, turned out to be a fine sample of cinnabar.

July 31st.—A sample of precious stones, found at Ngapara, forwarded by Mr. Robert Paulin, was found to contain zircon, sapphire, garnet, and obsidian.

August 15th.—Another sample of precious stones, from Ngapara, sent by Mr. Robert Paulin, proved to contain sapphire, green jasper, and agate.