

No. 2880. Quartz forwarded by Dr. Chapple from Nelson District. It was clear, semi-transparent quartz, coloured red, with micaceous hæmatite; showed coarse gold freely, and assayed 10 oz. 1 dwt. 15 gr. gold per ton.

No. 2889. A similar sample taken from a different place in the reef. This showed no free gold, but assayed 1 oz. 5 dwt. 5 gr. gold per ton.

No. 2901. Four samples forwarded by Dr. Chapple from the same locality. The stone was similar in appearance to No. 2880, but none of the four samples were of any value. No. 1 was marked "fair sample of reef"; No. 2, another reef, probably poor; No. 3, loose rubble and mullock on foot-wall; No. 4, quartz lying near smithy.

No. 2928. Two samples from the same locality. No. 1, main reef, 1 ft. solid quartz; No. 2, sugary quartz, 2 ft. hanging-wall of No. 1 reef. These contained only traces of gold per ton. The later tests thus failed to at all approach the promising results of the first sample, which showed gold so freely imbedded in the solid particles of quartz.

No. 2900. A sample of alluvial gold forwarded by Mr. T. James to ascertain loss on melting and value per ounce. The sample lost 0.82 per cent. on melting with borax, and this was increased to 1.29 per cent. during the cupellation of the bullion-assay. The amount of dirt and black sand present with the gold causes a variable loss, but in the present case the loss on melting 100 oz. should be from $\frac{3}{4}$ oz. to 1 oz. The gold and silver in the unmelted sample were as follows: Gold, 0.9328; silver, 0.0543: value, £3 19s. 2d. per ounce (unmelted). While in the melted sample the amounts were: Gold, 0.9405; silver, 0.0549: value, £3 19s. 9 $\frac{1}{2}$ d. per ounce (melted). The values are calculated on a mint value of £3 17s. 9 $\frac{1}{2}$ d. per ounce standard gold, and no allowances are made for value of silver, or charges for melting, shipping, insurance, &c.

No. 2912 was interesting on account of the scheelite in the concentrates, along with a good amount of gold.

No. 2913 was a large block of chrome-iron ore containing magnesia.

No. 2869, forwarded by Mr. Whinray, Gisborne, was described as quartz, and an assay for gold was required. The sample was pure white, but slightly softer than quartz; it gelatinised in acid, and an analysis proved it to be a feldspar. It contained no bullion.

—	Description.	Locality.	Sender.	Result of Assay.
2829	White quartz ..	Wairau River ..	Hon. Mr. Mills ..	8 dwt. 19 gr. gold per ton.
2836 (1-3)	Brown quartz ..	Napier ..	Mr. H. Macdonald ..	Small traces of gold per ton.
2837 (1)	Flaky quartz ..	..	Messrs. Johnstone and Co.	2 oz. and 8 gr. gold and 9 oz. 16 dwt. 15 gr. silver per ton.
2837 (2)	Crushed sample ..	Masterton ..	Mr. T. J. Donnelly ..	No gold present.
2837 (3)	Slate ..	Hawke's Bay ..	Mr. W. Thomson ..	..
2839	Quartz and magnetite ..	Stewart Island ..	Mr. Robertson ..	See body of report.
2844	White quartz ..	Baton River ..	Mr. Joseph Taylor ..	5 dwt. 1 gr. gold and 1 dwt. 6 gr. silver per ton.
2847	Quartz stringers in brown country-rock ..	..	Mr. A. F. Hadfield ..	Traces of gold per ton.
2848 (1)	White surface quartz ..	Arm-chair Creek ..	Mines Department ..	Minute traces of gold per ton.
2848 (2)	Rusty quartz ..	..	" ..	" ..
2848 (3)	" ..	Aniseed Creek ..	" ..	" ..
2851	Quartz and schist ..	Queen Charlotte Sound ..	Mr. H. F. Logan ..	No gold or tellurium.
2857	Siliceous rock ..	Golden Bay ..	Mr. T. H. Baird ..	No gold present.
2863 (1-5)	Various ..	Wangapeka ..	Mr. M. Webster ..	See body of report.
2864 (1-4)	Quartz ..	Marlborough ..	Mr. F. F. MacLeod ..	..
2867 (1-3)	Calcite veins in country-rock ..	Mangapai ..	Mr. N. Jackson ..	Traces of gold per ton in all three.
2868	Hard sandstone ..	..	Mr. J. Shore ..	No gold present.
2869	Silicate ..	Gisborne ..	Mr. J. Whinray ..	..
2871	White quartz ..	Top Valley ..	Mr. K. MacLeod ..	8 dwt. 9 gr. gold per ton.
2872	Banded quartz ..	..	Mr. F. Iredale ..	Slight traces of gold.
2874 (1)	Cement sand ..	Westport ..	Mr. H. J. Hayns ..	8 dwt. gold per ton.
2874 (2, 3)	Serpentinous rock ..	D'Urville Island ..	Mr. Woodman ..	No gold present.
2874 (4)	Brassy pyrites ..	" ..	" ..	Trace of gold per ton.
2874 (5)	Dark pyrites ..	" ..	" ..	" ..
2876	Oxide of iron ..	South Africa ..	Mr. Rees ..	" ..
2878 (1)	Brown quartz ..	Marlborough ..	Mr. K. MacLeod ..	6 dwt. 7 gr. gold per ton.
2878 (2)	Brecciated quartz ..	" ..	" ..	10 dwt. 2 gr. gold and 2 oz. silver per ton.
2878 (3)	White quartz ..	..	..	4 dwt. 9 gr. gold per ton.
2879	Quartz ..	Mangonui ..	Mr. R. M. Houston, M.H.R.	See body of report.
2883 (1-3)	" ..	" ..	" ..	" ..
2930	" ..	" ..	" ..	" ..
2880	Red-coloured quartz ..	Nelson ..	Dr. Chapple ..	" ..
2889	" ..	" ..	" ..	" ..
2901 (1-4)	Various ..	" ..	" ..	" ..
2928 (1, 2)	Quartz ..	" ..	" ..	" ..
2881	White quartz ..	Top Valley ..	Mr. John Main ..	3 dwt. 3 gr. gold per ton.
2888 (A)	Clean tailings ..	Marlborough ..	Mr. C. D. Morpeth ..	2 dwt. 12 gr. gold per ton.
2888 (B)	" ..	" ..	" ..	5 dwt. 7 gr. gold per ton.
2900	Alluvial gold ..	Rappahannock Creek ..	Mr. Thomas James ..	See body of report.
2902	Shell limestone ..	Dannevirke ..	Mr. J. J. Barnes ..	No trace of gold.
2903	Iron-pyrites ..	Methven ..	Mr. J. Hobbs ..	Small trace of gold per ton.
2908	Quartz ..	Top Valley ..	Mr. D. Campbell ..	5 dwt. 7 gr. gold per ton.
2912 (1)	Concentrates ..	Macrae's ..	Messrs. Donaldson ..	1 oz. 7 dwt. 17 gr. gold per ton.
2912 (2)	" ..	" ..	" ..	4 dwt. 10 gr. gold per ton.*
2913	Chrome-iron ore ..	D'Urville Island ..	Mr. R. Woodman ..	43.99 per cent. chromic oxide, 3.01 per cent. magnesia, and no gold.
2915	White quartz ..	Timm's Creek ..	Mr. A. Muir ..	2 oz. 2 dwt. 20 gr. gold and 2 dwt. 12 gr. silver per ton.
2916 (1)	Massive iron-pyrites ..	Maharabara ..	Mr. Ed. Foley ..	3 dwt. 18 gr. gold per ton.
2916 (2)	Slate ..	..	" ..	2 dwt. 12 gr. gold per ton.
2917	Flaky quartz ..	Ohau River ..	Survey Department ..	1 dwt. 21 gr. gold per ton.
2927 (1)	Bluish quartz ..	Alexandra South ..	Mr. E. C. Stewart ..	1 dwt. 18 gr. gold per ton.
2927 (2)	Brown quartz ..	Gisborne ..	Mr. J. Whinray ..	Trace only of gold per ton.
2929	Various samples of quartz ..	Pelorus Sound ..	Mr. F. B. Farmar ..	No gold found.
2931	Tailings ..	Top Valley ..	Mr. T. W. Young ..	1 dwt. 12 gr. gold per ton.

* These concentrates contain scheelite.