

8 Mr. T. S. Hunt's *Examinations of some Felspathic Rocks.*

At La-Chute on the Rivière du Nord, there is a felspar rock associated like the others with crystalline limestone, and holding in a greenish granular base a cleavable felspar resembling andesine in composition. Its lustre is vitreous, and the face of perfect cleavage, as in all these felspars, is finely striated. Density, 2.687; colour, lavender-blue, passing into sapphire-blue; semitransparent. Its analysis gave—

	XV.
Silica	58.15
Alumina	26.09
Peroxide of iron50
Lime	7.78
Magnesia16
Potash	1.21
Soda	5.55
Loss by ignition45
	<hr/> 99.89

The bytownite of Thompson appears to be one of these granular felspar rocks, and can scarcely be distinguished from some of the varieties just described. In 1850 I examined an authentic specimen of the mineral, and found it to have a hardness of 6.5, and a density of 2.732; it gave by analysis,—

	XVI.	
Silica	47.40	47.30
Alumina	30.45	
Peroxide of iron89	
Lime	14.24	
Magnesia87	
Potash38	
Soda	2.82	
Loss by ignition	2.00	
	<hr/> 99.05	

I remarked at the time, the undoubted felspathic character of the mineral, which I described as corresponding to the thior-sanite of Genth, and as probably anorthite with an admixture of quartz*.

The frequent association of limenite with these felspars, derives additional interest from the fact, that the immense deposits of this ore at Bay St. Paul are accompanied with a lime felspar. Here, besides many smaller masses, a body of titaniferous iron ore, 300 feet long by 90 feet wide, is exposed on the side of a hill, and a still larger mass is said to occur in the vicinity. The

* See this Magazine, S. 4. vol. i. p. 324. Also Report of the Geological Survey of Canada for 1850-51, p. 38, where analysis XIV. has also appeared.