

distance on the strike. Should it prove to be a persistent bed, it would be a most valuable deposit, as the ore is one of the purest known. No substance save the pure mineral was discovered in the bed, the roof appearing well defined.

The following analysis is of an average specimen taken by myself. It will be observed that the silicious residue does not equal half of one per cent:—

Sesquioxide of iron.....	84.94	Analysis
Combined water.....	15.43	
Hygroscopic moisture	.92	
Silica, (insoluble residue).....	.41	
	101.70	
Amount of metallic iron.....	per cent. 50.46	

The rocks including this deposit appeared to belong to the same series as those further south, holding the specular iron deposits above described.

SPATHOSE ORES.

On the land of Neil McLaurin, about one and three-quarter miles south-west of Sutherland's bridge on Sutherland's river, a peculiar deposit of iron ore occurs, included in Indian-red and greenish-drab sandstones, apparently of the Millstone-Grit series. This ore, which I designate as spathose iron ore, appears to be a mixture of spathic iron, or crystalline carbonate of iron, and red hæmatite, or anhydrous peroxyd of iron, with but little impurity. The ore is seen in place, on the south bank of Sutherland's brook, where it is exposed by a number of costeeening-pits, and it has also been traced for about 100 feet west of the point where it was first opened, the strike appearing to be very nearly E. and W., and the attitude nearly vertical.

Spathose ore
near Merigom-
ish.

Whether this deposit should be considered a bed or a vein, is still a matter of uncertainty, but it appears to be conformable with the stratification. Its thickness, where exposed, varies from eleven to fourteen feet. Several attempts had been made to trace it farther westward at the time of my visit, but the pits sunk had failed to penetrate the drift. That this deposit, if found to be persistent, would be of considerable value, may be judged from the following analyses. No. 1 is of a specimen from the outcrop, on Sutherland's Brook, and No. 2, from a costeeening pit, about 75 feet farther westward.

Size of deposit