

MINERALOGICAL NOTES.

MANGANESE ORES IN CANADA, by H. P. Brumell, Ottawa.—The August number of the *American Geologist* for 1892, contains an interesting as well as useful contribution regarding the distribution, origin and geological relations, as well as economic uses and value of the ores of manganese in Canada.

We are informed here that all the known workable deposits are located in New Brunswick and Nova Scotia, and belong chiefly to rocks of the lower carboniferous age, whilst the "bog ore deposits, being of recent formation, are found overlying rocks of any formation from the Cambrian upwards."

From the Markhamville deposit of crystalline ore, Mr. Brumell informs us, upwards of 20,000 tons have already been shipped. The analyses of this ore are also given, and reference made to another important deposit in the same (Sussex) County in New Brunswick, at Jordan Mountain, where some 400 tons of from 80 to 85 per cent. ore have been extracted from the western side of this mountain. At Quaco Head and Gowland Mountain crystalline ores of manganese also occur. At the latter locality it "consists principally of psilomelane and fills the interstices of a very much broken and partly decomposed granite of Pre-Cambrian age." Upham, Waterford, near Petitcodiac, Springfield, Tête-à-Gauche Falls and Albert County. The Shepody Mountain deposits have been described by Dr. R. W. Ells in his report (1884) and shows that the ore "consists of pyrolusite and psilomelane, and occurring in the base of conglomerate in irregular pockets."

"Wad" is the common name which miners give to that ore of manganese which is found in swampy districts, and is of recent origin and still in process of formation in many places.

The most important deposits of "wad" occur at Dawson Settlement in Albert County, N. B., "where many acres of ore are found, the beds varying in extent and depth, and attaining in some places a thickness of over forty feet, to which point they have been proved." Analyses of this easily worked ore are then given by Mr. Brumell from the reports by Messrs. W. F. Best, of St. John, N. B., and John Burwash, showing the percentage of manganese binoxide "to vary from 35.5 to