

Analyses of
"Disseminated
graphite" from
Buckingham.

Silica.....	very small quantity.	Lime.....	large quantity.	
Alumina.....	very large	"	Magnesia.....	moderate quantity.
Iron.....	large	"	Cobalt.....	trace.
Manganese.....	small	"	Alkalies.....	not sought for.

The rock contains :

Graphite.....	23.798
Rock matter, soluble in hydrochloric acid.....	21.285
Rock matter, insoluble in hydrochloric acid.....	53.741
Hygroscopic water.....	1.176

100.000

4. Disseminated Graphite.

From the twenty-third lot of the sixth range of Buckingham. The property of the Buckingham Mining Company.

This deposit has been traced through into the seventh range. It would appear to be a bed whose position is conformable to the stratification of the beds of disseminated graphite, and connecting with the true fissure veins which cross these beds. The rock consists of quartz and a feldspar, and is traversed by more or less disconnected lenticular layers of a twisted, fibrous graphite. These layers, which vary greatly in thickness, may, perhaps, justly be regarded as interstratified veins. As yet the ground has only been uncovered, but it is considered probable that the rock for a transverse measurement of some fifteen to twenty feet would yield largely. The specimen examined was considered a pretty fair average.—Authority, Mr. H. G. Vennor.

The rock contained no calcite; the presence of a small quantity of pyrrhotite was, however, established. The powdered mineral was very little acted upon by hydrochloric acid; this acid, by the aid of heat, dissolved out only 2.475 per cent.; the solution was found to contain :

Silica.....	trace.	Lime.....	small quantity.
Alumina.....	small quantity.	Magnesia.....	" "
Iron.....	" "	Cobalt.....	trace.
Manganese.....	very small quantity.	Alkalies.....	not sought for.

The rock contains :

Graphite.....	30.516
Rock matter, soluble in hydrochloric acid.....	2.475
Rock matter, insoluble in hydrochloric acid.....	66.874
Hygroscopic water.....	0.135

100.000