Analyses of orthociase from Buckingham.

Silica	Silica					63.690	
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Potash							12.752
Soda							3.106

27. Orthoclase.

This felspar is the predominating constituent of the granitoid quartzofelspathic rock occurring in connection with the vein of graphite on the twenty-seventh lot of the sixth range of Buckii gham.

The rock is composed of orthoclase, small quantities of colourless, translucent quartz and dark olive-green pyroxene, with a little clove-brown, subtranslucent sphene and an occasional crystal of pale wine-red, subtranslucent zircon.

This feldspar has a hardness a little above 6. Specific gravity 2.5780. Colour pale violet-grey. Lustre vitreous. Subtransparent. Two distinct cleavage planes meeting at the angle 90°. Fracture uneven. Before the blowpipe in fine splinters it fuses (at about 5) on the edges to a semi-transparent vesicular glass. Carefully selected material dried at 100° C., gave:—

Silica	63.460
Alumina	18.780
Scsquioxide of iron	0.394
Protoxide of manganese	trace.
Lime	1.280
Magnesia	0.216
Potash	13.923
Soda	2.173
Loss by ignition	0.466

100.692

Oxygen ratio of RO: $R_2 O_3$: Si $O_2 = 1$: 2.62: 10.02.