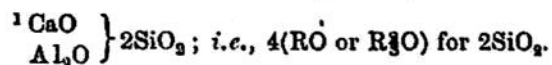


We see that in both our specimens $m = p$ as in Abich's pumices; but while our "quasi" is just a little too basic for the A-set, our purified pumice is far too acid for set B even. The excess of base in our quasi-pumice might be explained by the presence in it of Anorthite,¹ which according to Tschermak always accompanies albite as a normal admixture. Going by Abich's determinations our quasi-pumice would appear to stand closer to what he calls pumice than our undoubtedly genuine pumice does.



84. GLAUCONITE.—Station 164B.

Lat. 34° 13' S., long. 151° 38' E., 410 fathoms (Sipöcz).

- I. 0.4544 gm. of substance, fused with the carbonates of soda and potash, gave 0.0311 gm. of water, 0.2573 gm. of silica, 0.0770 gm. of peroxide of iron, 0.0570 gm. of alumina, trace of manganese, 0.0077 gm. of lime, and 0.0315 gm. of pyrophosphate of magnesia = 0.01135 gm. of magnesia.
- II. 0.3519 gm. of substance, treated with hydrofluoric and sulphuric acids, gave 0.0199 gm. of the chlorides of potash and soda, 0.0456 gm. of chloroplatinate of potash, corresponding to 0.0139 gm. of chloride of potash = 0.00889 gm. of potash, and 0.0060 gm. of chloride of soda = 0.00318 gm. of soda.
- III. 0.1483 gm. of substance, treated with hydrofluoric and sulphuric acids, required for oxidation 0.3 c.c. permanganate of potash (1 c.c. permanganate of potash = 0.0058355 gm. of protoxide of iron), corresponding to 0.0175 gm. of protoxide of iron.

Silica,	.	.	.	.	.	.	.	.	.	56.62
Peroxide of iron,	.	.	.	.	.	.	.	.	.	15.63
Alumina,	.	.	.	.	.	.	.	.	.	12.54
Protoxide of iron,	.	.	.	.	.	.	.	.	.	1.18
Lime,	.	.	.	.	.	.	.	.	.	1.69
Magnesia,	.	.	.	.	.	.	.	.	.	2.49
Potash,	.	.	.	.	.	.	.	.	.	2.52
Soda,	.	.	.	.	.	.	.	.	.	0.90
Water,	.	.	.	.	.	.	.	.	.	6.84
Manganese,	.	.	.	.	.	.	.	.	.	trace
										<hr/> 100.41

NOTE.—This substance contained about 65 per cent. of white, pale grey, and some yellow casts, 20 per cent. pale green casts, and 11 per cent. of dark green casts, together with 14 per cent. of mineral particles and siliceous organisms (J. M.).

85. GLAUCONITE.—Station 164B.

Lat. 34° 13' S., long. 151° 38' E., 410 fathoms (Sipöcz).

- I. 0.6340 gm. of substance, fused with the carbonates of soda and potash, gave 0.0352 gm. of water, 0.3299 gm. of silica, 0.1664 gm. of peroxide of iron, 0.0566 gm. of alumina, trace of manganese, 0.0080 gm. of lime, and 0.055 gm. of pyrophosphate of magnesia = 0.019856 gm. of magnesia.
- II. 0.5320 gm. of substance, treated with hydrofluoric and sulphuric acids, gave 0.0380 gm. of the chlorides of potash and soda, 0.1164 gm. of chloroplatinate of potash, corresponding to 0.0355 gm. of chloride of potash = 0.02243 gm. of potash, and 0.0025 gm. of chloride of soda = 0.00133 gm. of soda.
- III. 0.2633 gm. of substance, treated with hydrofluoric and sulphuric acids, required for oxidation 0.75 c.c. permanganate of potash (1 c.c. permanganate of potash = 0.0058355 gm. of protoxide of iron), corresponding to 0.004376 gm. of protoxide of iron.