Silica,			•		•			47.60
Peroxide	of iron	1, .						5.92
Alumina	,			•	•			17.09
Mangano	us oxid	le,	•	•		•		0.43
Lime,			•	•				8.20
Magnesia	١,							1.24
Potash,							•	4.81
Sodn,				•			,	4.08
TT-4 (at 125°	C.,					1.	9.15)
Water {	Loss on	ignit	ion,				•	7.59 16.74
		200						101-11

90. PHILLIPSITE.—Station 275.

Lat. 11° 20' S., long. 150° 30' W., 2610 fathoms (Sipöcz).

- I. 0.5411 grm. of substance, after drying 30 hours at 125° C., lost 0.0506 grm. of water and gave 0.0398 grm. of loss on ignition, and then fused with the carbonates of soda and potash, gave 0.2699 grm. of silica, 0.0300 grm. of peroxide of iron, 0.0894 grm. of alumina, 0.0026 grm. of manganoso-manganic oxide = 0.0024 grm. of manganous oxide, 0.0075 grm. of lime, and 0.0180 grm. of pyrophosphate of magnesia = 0.0065 grm. of magnesia.
- II. 0.4115 grm. of substance, treated with hydrofluoric and sulphuric acids, gave 0.0690 grm. of the chlorides of potash and soda, 0.1091 grm. of chloroplatinate of potash, corresponding to 0.0333 grm. of chloride of potash = 0.0210 grm. of potash, and 0.0357 grm. of chloride of soda = 0.0189 grm. of soda.

•			648	•						49.88
iron,										5.54
•										16.52
oxide,		×								0.44
•	•	•								1.38
	•	*								1.20
			260							5.10
				•:						4.59
Water { at 125° C., . Loss on ignition,								•		0.88.)
				•		•				7.85 16.68
										101:33
	125° C.	oxide,	iron, oxide, 125° C.,							

91. PHILLIPSITE.—Station 275.

Lat. 11° 20' S., long. 150° 30' W., 2610 fathoms (Renard).

- I. 0.7228 grm. of substance, after drying 10 hours at 125° C., lost 0.0575 grm. of water and gave 0.0685 grm. of loss on ignition, and then fused with the carbonates of soda and potash, gave 0.3520 grm. of silica, 0.0446 grm. of peroxide of iron, 0.1271 grm. of alumina, 0.0123 grm. of lime, 0.0208 grm. of pyrophosphate of magnesia = 0.0074 grm. of magnesia.
- II. 0.75479 grm. of substance, treated with hydrofluoric and sulphuric acids, gave 0.1112 grm. of the chlorides of potash and soda, 0.1879 grm. of chloroplatinate of potash, corresponding to 0.0579 grm. of chloride of potash = 0.0365 grm. of potash, and 0.0533 grm. of chloride of soda = 0.0283 grm. of soda.

Silien,	•		•	•	•			48.70
Peroxide of	f iron,							6.17
Alumina,								17.58
Lime,								1.70
Magnesia,								1.02
Potash,								4.83
Soda,								3.75
Water { at	125° O	., .				•		7.95)
Water (Loss on ignition,							9.47 } 17.42	

101:17