

saw it forming a stream in countries containing extinct volcanoes.

6.

Compact Felspar.

Dichter Felspath.—*Werner.*

1. This rock probably occurs in considerable beds; or even mountain masses, in this formation.

2. The Pentland Hills, near Edinburgh, afford good examples of this rock.

7.

Claystone.

Thonstein.—*Werner.*

1. This rock accompanies the compact felspar, and appears to pass into it.

2. The Pentland Hills afford examples of this rock.

8.

Gravel, Sand, and Clay.

These frequently occur together. The gravel usually occupies nearly the lowest part of the formation, and by the diminution of the magnitudes of its grains, passes into sand. The grains of sand also become smaller in its upper beds: lastly, it becomes clayey, and at length passes into clay. The clay passes into wacke; the wacke into basalt; the basalt into greenstone, and this latter into grey-stone and porphyry-slate. Beds of shells, &c. some-  
times