

inflammable materials; that the superincumbent basalt or wacke is melted by this heat, and flows into these hollows; and that water rushes in on the surface of this melted mass, and occasions its expulsion.

Hence the conditions for the existence of a volcano appear to be the following: 1. A substance capable of combustion; and this we may fairly infer to be coal: 2. Actual combustion, which may be caused by the spontaneous inflammation of the coal, or its being kindled by lightning: 3. The melting of the stony beds that rest on the coal: 4. The rushing in of water from the sea, or from the surface of the land during wet seasons, or by the flowing in of small rivers or lakes: 5. The presence of a power capable of forcing the melted matter from its repository; and this we may conclude to be aqueous vapour.

Particular Mineral Repositories.
Besondere Lagerstätte.—Werner.

CHAP. XI.

MINERAL REPOSITORIES.

Lagerstätte.—Werner.

1. By *mineral repositories*, we understand those spaces that contain the various mineral substances of which