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VOL. II

Cottage Grove, Oregon, Friday, October 12, 1900.

NO. 39

PROFESSIONAL.

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Mines and Mining

Devoted to Bohemia Notes and Items of general interest to Mining Men.

The Third of a Series of Articles on Structural Geology.
[CONTRIBUTED.]

From the distribution of the more important elements in the earth's crust and the mineral forms which they assume, we have now to advance a stage farther and inquire how the minerals are combined and distributed so as to build up the crust. As a rule simple minerals do not occur alone in large masses, more usually they are combined in various proportions to form what are known as rocks. A rock may be defined as a mass of inorganic matter, composed of one or more minerals having for the most part a variable chemical composition, with no necessary symmetrical external form, and ranging in cohesion from loose debris up to the most solid stone. Blown sand, peat, coal, sandstone, limestone, lava, granite, though so unlike each other, are all included under the general name of rocks. Following are some of the important terms applied to rocks:

Sedimentary—Composed of sediment which may be either a mechanically suspended detritus such as mud, sand, shells or gravel, or a chemical precipitate, as rock-salt or calcareous, tufa. The various deposits which are accumulated on the floors of lakes, in river courses, and on the bed of the sea are examples of sedimentary rocks.

Fragmental Clastic—is composed of fragments derived from some previous rock. All ordinary detritus is of this nature.

Concretionary—is composed of mineral matter which has been aggregated round some center so as to form rounded or irregularly shaped lumps. Some minerals, particularly Pyrite, Marcasite, Siderite and Calcite are frequently found in Concretionary forms, especially round some organic relic such as a shell or plant. In alluvial clay Calcareous concretions often take curious imitative shapes and are sometimes called fairy stones.

Oolitic—is made up of spherical grains, each of which has been formed by the deposition of successive coatings of mineral matter round some grain of sand or shell or other foreign particle. A rock with this structure looks like fish-roe.

Stratified Bedded—is arranged in layers, strata or beds lying generally parallel to each other as in ordinary sedimentary deposits.

Aqueous—is laid down in water, comprising nearly the whole of the sedimentary and stratified rocks.

Unstratified Massive—having no arrangement in definite layers or strata. Lavas and the other eruptive rocks are examples.

Eruptive Igneous—is forced upwards in a molten or plastic condition into or through the earth's crust. All lavas are eruptive rocks; also called volcanic because erupted to the surface by volcanoes.

Crystalline—consisting wholly or chiefly of crystals or crystalline grains. Rocks of this nature may be either igneous or aqueous or caused by sublimation, when the materials have crystallized out of hot vapors, as in the vents and clefts of volcanoes.

Glassy Vitreous—having a structure and aspect like that of artificial glass, such as obsidian.

Porphyritic—is composed of a compact or crystalline base or matrix through which are scattered crystals much larger than those of the base. Many eruptive rocks have this structure and are often spoken of as Porphyries.

Schistose Foliated—consists of minerals that have crystallized in approximately parallel wavy and irregular laminae, layers or folio. Such rocks are called generally schists. They have in large measure been formed by the alteration or metamorphism of other rocks of various kinds by vast terrestrial movements.

Various schemes of classification of rocks are in use among geologists, some based on mode of origin, others on mineral composition or structure. Accordingly in the following account of the more important rocks which enter into the structure of the earth's crust a three-fold sub-division will be adopted, viz: Sedimentary rocks, eruptive rocks and Schistose rocks.

Veins and dykes are a part of the evidence of volcanic action. We have only to consider how they occur in connection with the protrusion of erupted material within the crust of the earth. When the material so erupted has solidified in a vertical or nearly vertical fissure, so as to form a wall-like mass, it is called a Dyke. Otherwise the position of erupted rock that have consolidated in irregular rents are known as Veins. Dykes vary from less than a foot to 70 feet or more in width and run in nearly a straight course sometimes for many miles. They consist most usually of diabase, and andesite, basalt or allied rocks. Like intrusive sheets, but in a less degree dykes harden or otherwise alter the rocks on either side of them. Sometimes their sides are coated with a thin crust of black glass as if they had been painted with tar. This glass represents the effect of rapid cooling. No doubt the whole rock of the Dyke at the time when it rose from below and filled the space between the two walls of its opened fissure was a molten glass. But inside this layer the molten rock had more time to cool. In cooling its various minerals crystallized and the present Crystalline structure was developed.

Into the fissures opened in the earth's crust there have been introduced various simple minerals and ores which, solidifying there, have taken the form of Mineral Veins. These materials are to be distinguished from the eruptive veins and dykes above described. A true mineral vein consists of one or more minerals filling up a fissure which may be vertical, but is usually more or less inclined and may vary in width from less than an inch up to several hundred feet. The commonest minerals found in these veins are quartz, calcite, barytes and fluor-spar.

The metalliferous portions of ores are sometimes native metals, but are more usually metallic oxides, silicates, carbonates, sulphides, chlorides or other combinations. There appears to be no reason to doubt that the substance deposited in mineral veins were mainly introduced dissolved in water. Not improbably heated waters rose in the fissures and as they cooled in their ascent they coated the walls with the minerals which they held in solution. These minerals may have been abstracted from the surrounding rocks by the permeating water, or they may have been carried up from some deeper source within the crust. Now and then a fissure has been reopened, as land shells and pebbles are found far down in mineral veins, showing that during the time when the layers of mineral matter were being deposited the fissures sometimes communicated with the surface.

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NOTICE FOR PUBLICATION.
Land Office at Roseburg, Oregon, September 27, 1900.
Notice is hereby given that the following named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before Joel Ware, U. S. Commissioner, at Eugene, Oregon, on November 23, 1900, viz: Samuel E. Phillips on H. E. No. 7407 for the Lot 3, NW 1-4 SW 1-4, Sec. 28, T. 19 S., R. 3 W.
He names the following witnesses to prove his continuous residence upon and cultivation of said land, viz:
Charles Colcord, G. W. Smith, Albert Fernell, James Law, of Creswell, Ore.
J. T. BRIDGES, Register.

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