

good thing in mosquito time. On mountain streams the wind invariably blows in two directions, up and down stream, up in the day time and down at night; so one can be guided accordingly.

A word or two about cooking. Above all things take as much care with it as possible, endeavor to have everything well cooked and get as much variety as possible. If continually moving, take care not to cook too much for this causes waste by its having to be thrown away; cooked food, other than bread and bacon, being very awkward to carry in a pack. ,

Wash the dishes when through with them; it will not take long and it is necessary although a great many may not think so.

Regarding the actual prospecting, I will only speak of the four minerals most commonly looked for, namely, gold, silver, copper and lead. Gold occurs in two ways, free, and in combination with other minerals; free as placer gold, and in quartz veins free-milling, being combined with tellurium and often with silver and copper; but bear in mind that it is always where you find it.

Silver occurs native and in combination with lead in galena.

Copper occurs in the native state, also as copper glance, copper pyrites (distinguished from gold by its brittleness, and from iron pyrites by its deeper yellow colour).

Lead in the native state is rare. It occurs most commonly as the sulphide, galena, easily recognized by its crystalline form and steel grey color.

In searching for these minerals, the manner of procedure may be summed up as generally as follows:—

For gold, old river beds are thoroughly examined, also the sand in streams carefully panned.

For the other minerals the methods are the same. In hilly districts one finds what is called float, scattered over the surface of the land and consisting of pieces of rock matter usually quartz, containing the desired mineral.

In such cases these should be traced, if possible, to their source, after the following manner. If found in a stream or dry gulches in mountainous countries, one naturally infers that the float came from above; so walk up the lowest part of the gully or the bed of the stream, keeping a good look out for more of the same rock.