

foreign fragments. At the water's edge is some sandstone. The latter was probably at first also included in the fault, but later erosive action has worn it all away, leaving now only the conglomerate on the surface.

In the angle between Hungry creek and the Wind river stands Mount Deception, an outlier of the main range to the south. This is a steep anticlinal hill, rising to a height of fourteen hundred feet above the river. It strikes northwest and dips at a very high angle. It is composed of a massive crystalline limestone, which varies in colour from pure white through a mottled, to a dirty gray, with earthy and black streaks.

Below Mount Deception the river enters a low level country underlain by almost undisturbed Tertiary rocks. The stream occupies a shallow valley bounded by sloping wooded banks so that the contact between the rocks of the Tertiary basin and the older rocks was not seen, except at the mouth of the Wind river.

COAL.

About twelve miles below Mount Deception, however, cut banks sixty feet in height appear on either side. These at first consist entirely of boulder clay overlaid by gravels, but, farther down, a section of the Tertiary rocks is exposed. This shows six feet of lignite, associated with beds of clay and sandstone, overlaid by glacial drift.

The lignite is still in a primary stage of development, and shows the twigs and leaves of which it is composed, and even some blebs of resin. This seam of lignite is again exposed two miles below, overlaid by six feet of rusty gravels, and resting on a bed of clay. At the base of all is a soft and very fine-grained sandstone, which is also very porous. The lignite when dry burns fairly readily, giving off the odour of burning resin and leaving a great deal of ash. Another section of Tertiary rocks about four miles above the Peel river, and on the right hand side, where the stream cuts directly into the beds, shows the following succession of rocks:—

Gravel and boulder clay	40 feet
Unconformity.	
Sandstone with 8 seams of lignite from $\frac{1}{2}$ to four inches thick	50 "
Unconformity.	
Rusty black slates	5 "
Water's edge	95 feet

One mile above the Peel river, the contact between the Tertiary rocks and the underlying slates is well shown in a steep cut bank on