bracing several genera of univalves, and one bivalve, as the bivalves, of which there were many, belong to the genus umo, and bear a close resemblance to some of our modern clams. The univalves seem to belong to reveral genera, Vivipara, Campeloma, Bulinus On breaking up and Planorbis. some of the rock which contained the bivalve shells very complete casts dropped 1 might add here that the sandout. stone containing the shells seemed to be more compact and harder than that in which the leaves were found.

AN ENTOMBED BUFFALO.

At this place a condition was observed worthy of notice, as it explains how easily a person might be led astray by a too hasty explanation of certain facts.

The contractor at work on this division, (for at the time of my visit the track was not laid as far west as this) called my attention to the remains of a buffalo which his men found twenty-five feet below the surface, in a cutting through the river bank, while upon the surface stumps of huge trees were seen. Nothing seemed more natural than to suppose this buffalo had lain entombed for a long period of time, during which the deposits over it had accumulated and immense trees matured upon the soil which covered the imbedded remains.

Before venturing an answer to the question "How many thousands of years do you think this 'critter' has been buried ? " after special attention had been called to the size of the trees which grew above it, I looked up the high banks and at once saw how the entombrient might have taken place in recent times. A land-slide explained the mystery. Beneath this the buffalo had been buried, and as the trees carried down had been but little disturbed, they continued to flourish as it no change had occurred in their position. My questioner was pleased, and quaintly remarked to standers-by "that the buffalo aint so very old after all."

LARAMIE DEPOSITS.

The question which now presents itself is: To what period in geology do these deposits belong ! Regarding this there seems to be a diversity of opinion, some locating them in the upper Cretaceous : others as lower Eccene; in other words, at the simulit of the Secondary, or base of the Tertinry rocks. There is no doubt that there is a striking contrast between these fossils and what we find farther east. In fact, among those found the is no resemblance to the Cretaceous wh came under my examination.

From a comparison with fossils for elsewhere it would seem that these mains belong to what is known as Laramie series of rocks, which are e sidered as a transitional group betw the Cretaceous beneath and the Tern above.

These rocks were likely formed before the Rocky Mountains had made their pearance, as their arrangement and c dition seem to indicate that the g changes which brought these mounta into existence, took place after their position.

BOW RIVER NEAR THE 12TH SIDING Having completed my observations Calgary, the next place which engage my attention was along the banks of Bow River, about 100 miles west Medicine Hat. I had been told by enthusiastic passenger on the way that in the banks of the river at h place, it was a common thing to fi petrified 'ish. To obtain such was word any collector's effort.

For several hours 1 wandered along t river banks at this lonely spot, east the Crowfoot Crossing, thoroughly e amining the escarpment from the water edge to the prairie level, 150 above the r ver. Not a trace of extinct life w discovered in the gravel and elay of the banks. Had I been fortunate enought have left the train at the Blackfoot the ing farther west, I certainly would have been better rewarded, for at that point a coal seam appears, near which there a no doubt objects of paleontological in terest.

But here I had followed the instruction tions of one of the uninitiated in geolog and learned, as 1 have on several occ sions before, that such guides are not t be relied upon. They always see fossi in a magnified form and are neverate loss to identify them as belonging to evisting types. They find fish in rock which were formed long ere fish cam into existence ; backbones in formation deposited in seas which had passed away ages before vertebrates appeared ; petr fied wasps' nest in periods which has long preceded the creation of insects, and m band, tht sand ater lev even mastodon teeth long anterior to the appearance of these gigantic forms upot the earth.

After a wearisome search, disheartene pit it h and greatly disappointed, 1 resought the the track, which is not far from the river.

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