

Okanagan Valley by the diversion of waters which now discharge by the Fraser and Thompson Rivers. Such a change would account for the great size of the valley, which is now occupied by a comparatively insignificant stream.

The question of the probable origin of the terraced gravels of the Terraces. Columbia, as well as those of the Sacramento River is discussed in the geology of the U.S. Exploring Expedition, pp. 171-2. Prof. Dana, however, does not appear to have been aware of the great height of the terrace-levels in the higher part of the Columbia Valley.

LIST OF FOSSILS FROM THE CARBONIFEROUS OUTLIER IN THE FLATHEAD VALLEY, BY J. W. SALTER, ESQ., F.G.S. Palæontological note.

*Retzia Verneuiliana* (Hall Geology of Iowa, pl. 23, fig. 1.)

*Rhynchonella mutata* ( " " " pl. 23, fig. 2.)

*Athyris subtilita*.

" (allied to *A. squamosa*.)

*Spirifer Keokuk* (Hall Geology of Iowa, pl. 24, fig. 4).

" *setigerus* ? (Hall Geology of Iowa, pl. 27, fig. 4).

*Productus semireticulatus*.

" (a small spiny species like *P. aculeatus* or *P. spinulosus*).

Flat bryozoan (resembling *Ptilodietya*).

*Pleurotomaria*.

*Euomphalus* (impression of a small form resembling *E. carbonarius*, probably young of *E. latus*. (Hall Geology of Iowa, pl. 12, fig. 7a).

*Archeocidaris* (spine).

*Actinocrinus* (stems).

*Platycrinus* (coral plate).

*Lithostrotion* }

*Zaphrentis* }

*Aulophyllum* }

Fragments, mostly transverse sections.

Most of the fossils are very fragmentary, the best being procured from weathered blocks of a very hard and compact grey limestone. The *Retzia* at the head of the list, has been identified by Mr. Davidson, but with a mark of doubt, as there is a depression down the centre of the dorsal valve, and the foramen and beaks are larger, so as to give a somewhat more oblong shape to the shell than that of the figured specimen from Iowa. The striations agree closely. The *Spirifer* referred provisionally to *S. setigerus*, is a small transverse species, smooth, with a very slightly raised sinus and numerous short interrupted impressed striae. Hall's *S. setigerus*, ? has no defined sinus, whereas it is well defined in the specimen from Flathead Valley. The striation is, however, much the same in the specimens from both localities.