

New York. Mr. Ford has also found it in the limestones on the ridge east of Troy, New York, and also one mile below Schodack Landing, New York.

OLENELLUS IDDINGSI Walcott.

Plate xix, fig. 1.

Olenellus Iddingsi Walcott, 1885. Monographs U. S. Geol. Survey, vol. viii, p. 23, pl. ix, fig. 12.

Original description.—"General outline of the head roughly subtriangular, with the length one-half the breadth of the posterior border; strongly convex; the rather narrow rounded rim bordering the anterior margin suddenly becomes thickened and rounded opposite the eyes, and is extended back in the short, strong, slightly curved, genal spines, the narrow posterior marginal border uniting with it at the genal angles. Glabella elongate, narrow, divided by four transverse furrows into five lobes; the anterior is round, tumid, and expanded laterally, while the four posterior are narrow, transverse, of equal size, and with their sides parallel; occipital ring and furrow not recognized; eyes lunate, situated opposite the central lobes of the glabella. Facial suture in front of the eye unknown; back of the eye it extends obliquely outward and backward, cutting the posterior margin about two-thirds the distance from the glabella to the postero-lateral spine.

"Thorax and pygidium unknown."

A second visit to the type locality of the species resulted in finding a number of larger heads, but no traces of the thorax or the pygidium. The most prominent peculiarity of the head is the development of the genal spines, as seen on slabs of limestone from the Groome District, Nevada, on which they appear, when broken from the head, like united valves of a species of *Leperditia*. From the new specimens we also discover that the occipital ring had a low, blunt point at the center of its posterior margin.

Formation and localities.—Middle Cambrian. From a fine-grained, arenaceous shale near the summit of Prospect Peak, Enreka District, Nevada, and also in limestone at the south end of the Timpahute Range, Eastern Nevada, brought in by Mr. G. K. Gilbert (Geog. and Geol. Expl. and Surv. West 100th Merid., vol. iii, p. 169, section xviii, 2c).

OLENELLUS GILBERTI Meek.

Plate xviii, figs. 1, 1a-c; pl. xix, figs. 2, 2a-k; pl. xx, figs. 1, 1a-l, and 4.

Olenellus Gilberti Meek, 1874. (Manuscript.)

Olenellus Howelli Meek, 1874. (Manuscript.)

Olenellus Gilberti White, 1874. Geog. and Geol. Expl. and Surv. West 100th Merid., Prelim. Rep. Invert. Foss., p. 7.

Olenellus Howelli White, 1874. Geog. and Geol. Expl. and Surv. West 100th Merid., Prelim. Rep. Invert. Foss., p. 8.

Olenus (Olenellus) Gilberti Gilbert, 1875. Geog. and Geol. Expl. and Surv. West 100th Merid., vol. iii, Geology, p. 182.