In No. 5 we find:

Dicellocephalus angustifrons.
Dicellocephalus Marica.
Dicellocephalus bilobus.
Dicellocephalus Osceola.
Ptychoparia affinis.
Ptychoparia Oweni.
Ptychoparia Hagnei.
Ptychoparia granulosa.
Ptychoparia simulata.
Ptychoparia unisulcata.
Ptychoparia breviceps.
Arethusina Americana.
Ptychaspis minuta.

Three of these species, Hyolithes primordialis, Dicellocephalus Osceola, and Ptychaspis minuta, are identical with forms from the Potsdam sandstone of Wisconsin.

§ 58. The above section and details are given to show the relation of the Georgia, or Olenellus, to the Potsdam horizon. The section of 7,700 feet of strata is continuous and entirely visible throughout its extent, as it forms the summit and eastern slope of Prospect Peak and crosses the Hamburg ridge. Hammer in hand I examined it, and collected fossils at all places where they could be found. The Olenellus horizon is separated by 3,000 feet of limestone from a fauna that can be correlated with the Potsdam fauna of New York and the Mississippi Valley, and 1,600 feet of calcareous shale intervene before a typical Potsdam fauna is reached at the summit of No. 3. This section is typical, as it fixes the horizon of the Georgia fauna below that of the Potsdam, without the shadow of suspicion thrown on it, which there is on the Georgia section, as the latter may be defective through faulting in the shaly argillites above the Olenellus horizon.

§ 59. A section taken in the Highland Range, 125 miles south of the Eureka section, gives a greater variation of sedimentation in the lower portion and less in the upper, and we find that the variation was more favorable to the development and preservation of the fauna, as is shown by the Highland Range section, having an abundant and more varied fauna in the lower 1,500 feet above the quartzite, while in the Eureka section the upper or Potsdam fauna is much larger than in the Highland section.

The section was measured on the west side, half way between Bennett's Spring and Stampede Gap. The base of the section begins at the Quaternary, on the western slope, and the summit forms the highest point of the range.

1 Dorb - 11:1.	reet.
1. Dark readish-brown quartzite, evenly bedded, and ripple-marked in some	250
places	300
2. Bluish gray limestone	35
(750)	2

Bull	l: 30	3
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