

## LINGULELLA.

The Lingulellas of these lower Cambrian Zones are none of them typical, that is they have not the "satchel shape" form characterizing the type of the genus, *L. Davisii*, of the Upper Cambrian. Those that are treated of here belong to a phylum of oval forms which are found at intervals throughout the Cambrian system. The Lingulepides just cited are perhaps nearer Lingulella-typical, than the species named below.

VALVES OF OVAL LINGULELLE OF THE ETCEMIN TERRANE, SHOWING INCREASE IN SIZE FROM THEIR FIRST APPEARANCE ONWARD.

Assise	NAME	Length	Width	Proportion	Area
Co :	Lingulella cf. longovalis .....	7½	5	1.50	37.50
E. 1 c	L..... longovalis.....	8	5	1.60	40.
E. 1 e	L..... longovalis.....	9	6	1.50	54.
	Increase of the latest beyond the first. ....				1.5

The increase in area is only one-half above the first integer; but then the range in time was short, viz.: Coldbrook and one-half of the Lower Etchemin Fauna.

## OBOLUS.

Here is a complex group in which several phyla are involved:

SIZE OF VALVES OF THE OBOLI AS THE SPECIES SUCCEEDED EACH OTHER IN THE ETCEMIN TERRANE.

Assise	NAME	Length	Width	Proportion	Area
Co :	Obolus torrentis. ....	6	5	.83	30.
E. 1 b	O..... triparilis.....	9	8	.88	72.
E. 1 e	O..... discus.....	9½	9	.85	85.5
E. 2 (a?)	O..... æquiputels.....	12	11	.92	132.
E. 3 b & c	O..... lens.....	14	12	.86	168.
E. 3 d	O..... Bretonensis.....	15	17	1.13	255.
	Increase of the latest beyond the first. ....				8.5
				or	4.4

In this series there are at least two phyla. The interior of *O. torrentis* is unknown, but the next three are characterized by the equality and regular arrangement of the central scars of the dorsal valve (including the anterior laterals), and by the possession of a small scar in the middle of this group of muscles. The first phylum may