

finding only human bones, confusedly mixed, which he estimated at a thousand skeletons.

## A SEMI-CIRCULAR NOTCH

About one-third or three-eighths inch in size is sometimes present in the lateral margin of a thin leaf-shaped stone knife, as if too large a chip had been accidentally detached in getting the outline: but the size, regularity, and sharpness of edge, indicate that such a notch was for a purpose—such as scraping arrow-shafts, or material for strings; and a notch in the base of broken arrow-heads seems sometimes to have been rounded for this purpose.

## A BASAL NOTCH.

Occurs in some arrow-heads (Jones, pl. 9, pg. 36; Abbott, figs. 66-68), which I have regarded as intended to be fitted upon a suitable elevation in the notch of the shaft to prevent lateral motion. Among some modern stone-tipt arrows presented to me by Mr. Johnston Moore, of Carlisle, Pa., I find a head adapted in this manner and fastened with gum of *Larrea Mexicana*, a wrapping of sinew being restricted to the end of the shaft. Besides the gum, other examples are tied with sinew passing through the ordinary notch on each side, as figured from a California example, in Nilsson's *l'Age de la pierre*, Paris, 1868, fig. 104. The same quiver contains an arrow (the shortest of the lot) with a dagger-shaped iron point five and a half inches long beyond the shaft, from which we may infer that certain supposed long and slender stone spear-heads may often have belonged to arrows.

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## SKETCH OF THE KLAMATH LANGUAGE OF SOUTHERN OREGON.

BY ALBERT S. GATSCHET.

The Pacific slope of the Sierra Nevada and of the Rocky Mountains in the British Possessions is inhabited by Indians whose race-type differs in many particulars from the one observed east of the Rocky Mountains. Their idioms, when classed in language-families, are found to extend over areas considerably smaller than those of the Mississippi Valley and the Atlantic Coast of North America. These linguistic stocks or families, and their limits, could be established with some degree of certainty only a few years ago, when material more trustworthy than heretofore came to hand, and even now these classifications must be regarded as *provisional* for different reasons. It will suffice to mention the two principal reasons

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