## A NEW RHINOCEROS, TRIGONLAS OSBORNI, FROM TIIE MIOCENE OF SOUTII DAKOTA.

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The name Trigomias oslurmi is proposed for a rhinoreros from the Niocene, presmably the Lower 'Titanotherimm beds of South Dakota. represented by the anterior part of the palatal portion of the aranime bearing on the right side three incisors, a canine, and the first


Fig. 1. Anterme pohtion of chaniem of Trigonian osbodini. $\frac{1}{1}$
three premolars, and on the left side the third incisor and first three premolars.

The generic name in given in reference to the triangular shape of the cutting portion of the prommbent tooth, while the species is maned in honor of Henry F. Oshorn, who has done so much toward increating our knowledge of the extinct rhinoceroses. The specimen bears the number 392t, catalogue of fossil vertebrates, U. S. National Musemm. The species is remarkable from the fact that it possesses
three incisors and a canine, having therefore the most generatized dentition of any rhinoceros thus far discovered. The amine and second and third incisors are of the same general shape, being slightly compressed with rounded points; the canine is the smallest tooth in the sories and the teeth progressively increase in size from the canines forward. The three premolars are pratically of the same size, as those shown on Plate XIII, fig. 7, of Osborn's memoir on the Extinct lhimoceroses, but exhibit a greater degree of wear. The first premolar is, however, slightly more elongate and less trihedral in section than the first premolar there shown, while the protoloph is narrower, lies on the extreme inner edge of the tooth, and rus directly baterard.

The left ramus of a jaw, including the entire symphysial portion, also from the Miocene of Wouth Dakota, is assigned to this species, as


Fici, 2.-Sympilysis of Jaw of Trigonias onborni. $\frac{?}{f}$
the two specimens are from mimals evidently of the same size, and the peculiarities of dentition shown by the jaw are in accord with those of the portion of cranimu just described. The jaw is numbered 4815 in the catalogue of fossil vertebrates, U. S. National Museum. The important portion of the jaw is the symphysis, which bears on either side a small inner incisor, the root of which only is present, a large prommbent tooth, manally regarded as a camine, and back of this an alveolus for a third and small tooth. The presence of this tooth shows conclusively that, whether it lee regarded as a canine or an incisor, the large procumbent tooth must be an incisor. Until proof to the contrary is fortheoming, I prefer to look upon the small tooth as the third incinor and to regard the camine ats absent.
The lower grinders incease considerally in size from before backward, so that while the second and third premolars are of nearly the
same size as those of a specimen of Aceratherium oreridentule used for comparison the molars are very much larere．

Measurements．－Upper jaw：length of largest incisor at wides part， $2+$ mm．；length from anterior part of first incisor to bitck of canine． 56 mm. ；length of diastema， 29 mm. ；and length of three premolars， 70 mm ．

Lower jaw：length of symphysis， 82 mm ． ；length of diastema，35 1mm．；length of premolar series， 90 mm．：longth of molar series， 115 mom．；length from anterior part of symphysis to posterior angle in a straight line， 410 mm ．

