

ON A NEW GENUS AND SPECIES OF CARNIVOROUS
DINOSAUR FROM THE BELLY RIVER FORMATION
OF ALBERTA, WITH A DESCRIPTION OF THE
SKULL OF STEPHANOSAURUS MARGINATUS
FROM THE SAME HORIZON.*

BY LAWRENCE M. LAMBE, F.G.S., F.R.S.C., F.G.S.A.,
Vertebrate Palæontologist to the Geological Survey, Canada.

The osteological characters of one of the carnivorous dinosaurs of the Cretaceous are revealed in a wonderful manner by a nearly complete skeleton obtained last summer by the Vertebrate Palæontological expedition of the Geological Survey of Canada to Red Deer river, Alberta, where a magnificent collection of dinosaurian and other reptilian remains was obtained from the Belly River formation. The expedition was in charge of Mr. Charles H. Sternberg, and this skeleton was discovered by his son, Charles M. Sternberg, 3½ miles below the mouth of Berry creek (Steveville), on the south side of Red Deer river, near the prairie level.

The specimen includes the head, the greater part of the vertebral column, the pectoral and pelvic arches, one at least of the fore-limbs complete, both hind-limbs also complete, the ribs, and apparently the entire series of abdominal ribs. The cervical vertebræ appear to be missing, but as all of the sandstone matrix has not yet been removed, they, or some of them, as well as the other fore-limb, may yet be uncovered. The extreme end of the tail, back of the twenty-second caudal vertebra, was not found.

The mandible is present and all of the teeth, both upper and lower, are in place, giving the complete dentition. The writer has already published a short description of the fore-limb,** which has not hitherto been known in any of the Cretaceous carnivorous dinosaurs. Nor has a complete series of ventral ribs in any of these reptiles previously been discovered.

For the undescribed genus of Theropodous dinosaur, brought to light by this magnificent specimen, the name *Gorgosaurus* is proposed. The species may be called *libratus* in reference to the animal's probable well-balanced and easy gait.

GORGOSAURUS LIBRATUS, gen. et sp. nov.

Carnivorous dinosaur of large size, reaching a length of about twenty-nine feet; head narrow and moderately elongate;

* Communicated by permission of the Director of the Geological Survey.

** The Ottawa Naturalist, Vol. XXVII, No. 10, January, 1914.