

INTRODUCTORY.

The report of the Director of the Indiana Department of Geology and Natural Resources for the calendar year 1910 is necessarily brief. The refusal in April of the State Board of Printing to publish a paper on the Coleoptera of Indiana in the annual report of 1909 necessitated its publication as a Bulletin from the Department if it appeared at all. The expense of its publication was paid from the expense fund of the Department, and as a result, but little field work could be accomplished during the season, as no funds were available to pay field assistants. Moreover, the time of the Director from April to November was wholly taken up in seeing the Bulletin on Coleoptera and the annual report of 1909 through the press, as a delay of two months and more were entailed in their publication by the action of the Printing Board.

The first paper in the volume is one by Wm. M. Tucker on the Water Powers of Southern Indiana. It is based mainly upon field work done in the summer of 1909 and one and one-half months' work in 1910. It was the intention to have the paper, when published, cover the power sites of the entire State, but the circumstances above mentioned prevented Mr. Tucker from performing the work, and the paper is, therefore, limited in scope to the streams of Southern Indiana.

In October, after the appropriation for the new fiscal year became available, Ralph F. Blatchley spent two months in the Oakland City oil field, gathering data for a report on the petroleum developments in that area. This data furnished the basis of the second paper of the volume. It is accompanied by a map showing the Oakland City oil field as it was on December 1, 1910.

The reports of the State Gas Supervisor, B. A. Kinney, of Marion, and the State Mine Inspector, James Epperson, of Linton, follow in the order mentioned.

Dr. O. P. Hay of Washington, D. C., for a long time Professor of Zoölogy in Butler University at Irvington, Indiana, is under contract to prepare a paper for the Department on the Pleistocene Vertebrates of the State. Dr. Hay is the acknowledged authority on Pleistocene Vertebrates in this country, and his paper will probably appear in the annual report for 1911. These animals include the Mammoth, Mastodon, Giant Beaver and many other forms which roamed throughout the State near the close of the Glacial period, and whose remains are frequently found in various portions of the State.