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**Geology of the Silurian Producing Zones in the Moreland Oil Pool, Wayne County, Ohio.** *H. Gray Multer.* 1963. Ohio Geological Survey Report of Investigations No. 46. 48 p., 12 figs., 8 pls. Copies may be obtained from The Ohio Division of Geological Survey, 1207 Grandview Ave., Columbus 12, Ohio. 97 cents plus 3 cents tax in Ohio.

The Moreland oil pool in Wayne County, Ohio was discovered in 1956. The producing zones are the Newburg dolomite and the "Clinton" sandstone, both of Silurian age. Dr. Multer, a professor of geology at Wooster College, summarizes the history of the Moreland oil pool, discusses the rock types in which the oil is found, and presents maps of the field, three cross sections through the field, and detailed descriptions of test cores from four wells.

This report will be of interest to geologists and oil operators in the Wayne County area. It is a contribution not only to the field of petroleum geology but also to our growing fund of knowledge of the subsurface rocks of Ohio and of the nature of the Silurian strata in general.

RALPH J. BERNHAGEN

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**The Ideas of Biology.** *John T. Bonner.* Harper & Brothers, 49 East 33rd Street, New York 16. 1962. xi+180 p. \$3.75.

Biology teachers are often disturbed, and properly so, by the realization that while most of their students have learned a variety of facts it is only a few of them who grasp the relationships of these facts. Dr. Bonner has done something about this problem by writing this book for the student who has had a year of biology and should be ready to discover the significance and meaning of the facts he has accumulated. Teachers' opinions will vary as to the degree of Dr. Bonner's success but the book is a serious attempt to instruct where most text books leave great need for instruction; this is not a text book but a supplement to a text book. Major topics covered are the structure and physiology of cells, the mechanism of evolution, genetics, embryonic development, communication and control in complex organisms, and the application of biological information to human problems. There is a good annotated bibliography and an index.

CARL VENARD