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# CONTRIBUTIONS TO ECONOMIC GEOLOGY

(SHORT PAPERS AND PRELIMINARY REPORTS)

1922

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PART II.—MINERAL FUELS

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K. C. HEALD

GEOLOGIST IN CHARGE



WASHINGTON

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# CONTRIBUTIONS TO ECONOMIC GEOLOGY, 1922.

## PART II. MINERAL FUELS.

K. C. HEALD, *Geologist in Charge.*

### INTRODUCTION.

The Survey's "Contributions to economic geology" have been published annually since 1902. In 1906 the increase in the number of papers coming under this classification made it necessary to divide the contributions into two parts, one including papers on metals and nonmetals except fuels and the other including papers on mineral fuels. In 1915 the year included in the title was changed from the year in which the field work reported in these papers was done to the year of publication, and in consequence there was no volume entitled "Contributions to economic geology, 1914." The subjoined table gives a summary of these bulletins.

*United States Geological Survey "Contributions to economic geology."*

Date in title.	Date of publication. <sup>a</sup>	Bulletin No.	Date in title.	Date of publication. <sup>a</sup>	Bulletin No.
1902.....	1903	213	1913, Part I.....	1915	580
1903.....	1904	225	Part II.....	1915	581
1904.....	1905	260	1915, Part I.....	1916	620
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<sup>a</sup> The date given is that of the complete volume; beginning with Bulletin 285, the papers have been issued as advance chapters as soon as they were ready.

As the subtitle indicates, most of the papers in these volumes are of three classes—(1) short papers describing as thoroughly as conditions will permit areas or deposits on which no other report is likely to be prepared; (2) brief notes on mining districts or deposits whose examination has been merely incidental to other work; and (3) preliminary reports on economic investigations the results of which are to be published later in more detailed form.

Although these papers set forth mainly the practical results of economic investigations, they include brief theoretical discussions and summary statements of conclusions if these appear to require prompt publication.