INTRODUCTION

The purpose of this geologic report is to provide an overview of the geology of the Becker County area, as well as to present a comprehensive map and cross-sections of the bedrock geology. The geology of Becker County is complex, with a variety of rock types and structures. The county is located in the northern part of the state and is characterized by a variety of terranes, including the Superior Province and the Canadian Shield.

The bedrock geology of Becker County is dominated by gneiss and schist, with minor amounts of granite, diorite, and diabase. The gneiss and schist are believed to be Precambrian in age, and are thought to have formed by the metamorphism of sediments. The granite, diorite, and diabase are thought to be of Proterozoic age, and are thought to have formed by the differentiation of a magma chamber.

The geology of Becker County is characterized by a number of tectonic features, including faulting and folding. The faults are thought to have been formed by the movement of tectonic plates, and are thought to have played a role in the formation of the gneiss and schist. The folding is thought to have been formed by the movement of the gneiss and schist along the faults.

The potential for mineral deposits in bedrock beneath Becker County is moderate, with a variety of base and precious metal mineral occurrences. These include komatiitic nickel, sulfide copper-gold, and gold.

The magnetic and gravity expression of the bedrock geology is moderate to high. The anomalies are thought to be caused by the magnetic and gravity effects of the bedrock geology, and are thought to provide useful information about the geology of the area.

This geologic map and accompanying cross sections depict the bedrock formations and structures in Becker County. The map and cross sections are intended to provide a comprehensive overview of the geology of the area, and are intended to be used by geologists, mineral deposit explorers, and the general public.

DESCRIPTIONS OF GEOLOGIC AND GEOCHEMICAL DATASET AND GEOLOGIC MODELS

The geologic map and accompanying cross sections are based on a variety of data sources, including drill hole records, geophysical surveys, and field observations. The data sources are thought to provide a comprehensive overview of the geology of the area.

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REFERENCES

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