New Occurrences of Carbonate-Hosted Pb-Zn Mineralization in Manitoba: Implications for Mississippi Valley-type Deposit Potential

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Introduction

There is evidence to suggest potential for MVT deposits in Manitoba, specifically in the Williston Basin (Table 1; Conoley et al., 2010). Several occurrences of Mississippi Valley-type (MVT) deposits have been reported in the area, and additional occurrences are likely to be found. The presence of these deposits is important because they provide a potential for future exploration and development in the region.

Regional Geology

The Williston Basin is a large sedimentary basin of Ordovician to Devonian age. The basin is bounded by various faults and is characterized by a series of sedimentary units. The most prominent of these units is the MVT deposit, which is located within the Red River Formation. The Red River Formation is a thick sequence of sedimentary rocks that are rich in quartz and feldspar.

Carbonate-Hosted Pb-Zn Mineralization in Manitoba

Several occurrences of carbonate-hosted Pb-Zn mineralization have been reported in Paleozoic strata in Manitoba (Table 1, fig. 1). The mineralization is typically associated with the Red River Formation, and several occurrences have been documented in the area. The mineralization is typically associated with the presence of hydrothermal fluids and the deposition of mineralized fluids in the vicinity of the Red River Formation.

Evidence of MVT Deposits in Manitoba

Several MVT deposits have been reported in the area. These deposits are typically associated with the Red River Formation and are characterized by the presence of Pb-Zn minerals. The mineralization is typically associated with the presence of hydrothermal fluids and the deposition of mineralized fluids in the vicinity of the Red River Formation.

Economic Considerations

The occurrence of MVT deposits in Manitoba is significant because they provide a potential for future exploration and development in the region. The presence of these deposits is important because they provide a potential for future exploration and development in the region. The presence of these deposits is important because they provide a potential for future exploration and development in the region. The presence of these deposits is important because they provide a potential for future exploration and development in the region.