New SEDEX (?) and MVT Provinces discovered under shallow cover in the Southern Georgina Basin

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2With thanks to SK Networks Resources Australia Pty Ltd and Central Petroleum Limited

Abstract

SK Networks Resources Australia Pty Ltd (SK) is currently exploring shallow cover sediment-hosted massive sulphide (MVT) deposits in the Southern Georgina Basin of Central Queensland, Australia. SK is testing a geological model that proposes: (i) the presence of NE-trending NE-Proterozoic SEDEX-style mineralisation or Neoproterozoic sediment-hosted gold/copper subject to the age of these basins, and (ii) a MVT-style system and reminiscent of early exploration results from the McArthur Basin of Western Australia. The model is based on the recognition of a SEDEX (?) and MVT Province, including companies such as WMC, WIO and ZEP, where exploration for lead-zinc and silver deposits is ongoing. The MVT exploration model is based on geophysical responses and explores a number of SEDEX(?)- and MVT-style provinces in the Southern Georgina Basin. The new SEDEX (?) and MVT Provinces are discovered under shallow cover in the Southern Georgina Basin and are amenable to drill testing.

Introduction

The Southern Georgina Basin is a prominent structural control that trends ESE-WNW and underlies the central part of the basin. The basin is up to 2000 km across, and has experienced a series of tectonic events over the past 500 million years. The basin is a potential target for exploration for SEDEX (?) and MVT deposits, and has been the focus of recent exploration efforts by SK Networks Resources Australia Pty Ltd. The basin has a rich history of exploration, with several companies, including WMC, WIO and ZEP, having explored for lead-zinc and silver deposits. The basin is underlain by a series of Mesoproterozoic SEDEX deposits, including the Thorntonia Limestone, which is the focus of the new SEDEX (?) and MVT Provinces.

Regional Setting

The Southern Georgina Basin is located in the central part of Queensland, Australia, and is underlain by a series of Mesoproterozoic SEDEX deposits, including the Thorntonia Limestone. The basin is a potential target for exploration for SEDEX (?) and MVT deposits, and has been the focus of recent exploration efforts by SK Networks Resources Australia Pty Ltd. The basin has a rich history of exploration, with several companies, including WMC, WIO and ZEP, having explored for lead-zinc and silver deposits. The basin is underlain by a series of Mesoproterozoic SEDEX deposits, including the Thorntonia Limestone, which is the focus of the new SEDEX (?) and MVT Provinces.

Geological Model

The geological model is based on the recognition of a SEDEX (?) and MVT Province, including companies such as WMC, WIO and ZEP, where exploration for lead-zinc and silver deposits is ongoing. The MVT exploration model is based on geophysical responses and explores a number of SEDEX(?)- and MVT-style provinces in the Southern Georgina Basin. The new SEDEX (?) and MVT Provinces are discovered under shallow cover in the Southern Georgina Basin and are amenable to drill testing.

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