



Occurrence Details

Occurrence Number: 106C 119
Occurrence Name: Stromatolite
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 10/3/2025 5:19:40 PM

General Information

Secondary Commodities: lead, silver, zinc
Aliases: Val
Deposit Type(s): Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)
Location(s): 64°16'50.87" N - -133°46'22.93" W
NTS Mapsheet(s): 106C05
Location Comments: Location based on grab sample G557026 (AR095720)
Hand Samples Available: No
Last Reviewed: Jul 30, 2019

Capsule

Work History

The claim block covering the occurrence was staked (Val cl 1-318, YA30884 in July and Aug 1978 by Prism Joint Venture (Asamera Oil Corporation, Chieftain Development Company Ltd, Prism Resources Ltd, Siebens Oil and Gas Ltd and E & B Exploration Ltd)). Grid soil sampling was carried out over the occurrence in 1978. In 1979, Dome Petroleum Ltd replaced Siebens in the joint venture. Dome dropped its interest and E & B's was transferred to Imperial Metals Ltd in 1983. In 1985, Prism changed its name to International Prism Exploration Ltd. A regional airborne geophysical survey was conducted over the claim block in 2001 (no report available). Manson Creek Resources optioned the Val claims in 1998 and sampled the occurrence. Archer Cathros and Associates Ltd. re-staked the area as the Rusty series claims (e.g., Rusty 34, YD33274) in 2010, covering the occurrence and grid-soil and rock sampled over the occurrence.

Capsule Geology

The Stromatolite Zone occurrence is located at the southern edge of the Mackenzie Platform, a predominantly shallow water carbonate and clastic sequence that formed on the western margin of the North American craton during Lower Proterozoic through Paleozoic times. The regional geology consists of Upper Proterozoic Rapitan(?) Group mudstones overlain by Upper Proterozoic Profeit Formation dolostones and Upper Proterozoic Nadaleen Formation silty limestone. Over these units are minor clastic and carbonate rocks of the Neoproterozoic to Lower Cambrian Hyland Group. Lower Paleozoic platform carbonates unconformably overlie these units.

The Stromatolite Zone is hosted in dolomite, likely correlatable with Profeit Formation dolostone. The occurrence consists of argentiferous galena and tetrahedrite within thin quartz veins and minor sparry dolomite, barite, tetrahedrite, galena and sphalerite hosted in orange weathering stromatolitic dolostone breccia. The dolostone outcrops as a block within an extensive unit of fissile dark grey shale. The zone was discovered in 1981 by Prism, which collected grab samples from mineralized boulders, one of which assayed 495 g/t Ag, 43.8% Pb, and 5.8% Zn. In 1998, Manson Creek took a chip sample that assayed 1164.4 g/t Ag, 4.48% Pb, 0.42% Zn and 2.04% Cu over 30 cm (AR 093968).

Strategic collected four samples from the showing in 2010, three of which returned encouraging results. A grab sample (G0557026) from a quartz-carbonate vein containing scattered blebs of galena and tetrahedrite assayed 527 g/t silver, 2.99% lead and 1% copper (AR 095720).

Work History

Date	Work Type	Comment
12/13/2010	Geochemistry	
12/13/2010	Geochemistry	
12/13/2001	Airborne Geophysics	also magnetics, regional survey
12/13/1998	Geochemistry	chip sampling
12/13/1998	Geochemistry	
12/13/1988	Trenching	West Ridge
12/13/1988	Development, Surface	West Ridge
12/13/1979	Geochemistry	
12/13/1978	Geochemistry	West Ridge

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096253	2011	Assessment Report Describing 2011 Drilling and Geochemical Sampling at the Rusty Property	Diamond - Drilling, Soil - Geochemistry	9	1340

095720	2010	Assessment Report Describing Geological Mapping, Prospecting and Geochemical Sampling at the Rusty Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
093968	1999	Geochemical, Geological and Geophysical Assessment, Report for the Val,Vera,Rusty,KLA,Nad and Craig Claims	Orthophoto - Airphotography, Silt - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Prospecting - Other, Research/Summarize - Pre-existing Data		
062208	1985	Summary Report on the Val-Vera Property	Research/Summarize - Pre-existing Data		
062185	1983	Summary Report on the Val-Vera Property	Research/Summarize - Pre-existing Data		
062146	1982	Report on the Vera, South Rusty Mountain and Siltstone Mineral Occurrences	Research/Summarize - Pre-existing Data		