



Occurrence Details

Occurrence Number: 106C 115
Occurrence Name: Big Red
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 4/29/2025 10:37:35 AM

General Information

Secondary Commodities: lead, silver, zinc
Aliases: Val
Deposit Type(s): Manto Polymetallic Ag-Pb-Zn, Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)
Location(s): 64°15'41.85" N - -133°41'42.6" W
NTS Mapsheet(s): 106C05
Location Comments: Located based on drillhole map of AR 095720
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

The claim block (Val cl 1-318, YA30884) covering the occurrence was staked 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). 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. The occurrence has been explored with prospecting, soil sampling, trenching, IP and self-potential surveys, mapping, airborne magnetics and diamond drilling. 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. Archer Cathro and Associates Ltd. re-staked the area as the Rusty series claims (e.g., Rusty 241, Y33481) in 2010, covering the occurrence.

Capsule Geology

The 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 Big Red occurrence is hosted in grey dolomite of the Profeit Formation. Mineralization encountered in drilling in 1979 (AR 090615) at the occurrence ranged from minor fracture filling to massive mineralization in brecciated grey dolomite and intermittent sections of white, recrystallized sparry dolomite. The best two mineralized intervals in DDH 79-14 were at 24.4 m and 51.2 m depth. The upper interval consists of nearly massive reddish-brown sphalerite with disseminated galena, averaging 6.6% Pb, 49.9% Zn and 158 g/t Ag over 4.1 m. The lower interval was massive coarse-grained galena, sphalerite and tetrahedrite averaging 53.22% Pb, 10.9% Zn and 4377 g/t Ag over 3.8 m, including 1.5 m of 7390 g/t Ag.

The 1998 Induced Polarization survey was centred on the Big Red Zone (BRZ). The total chargeability produced a bulls-eye anomaly over the BRZ, indicating that BRZ is a pipe-like vertical structure with limited lateral extent. Landsat imagery acquired in 1998 and processed to enhance areas of alteration highlighted the BRZ, but was of limited usefulness in identifying unknown targets.

Work History

Date	Work Type	Comment
12/13/2001	Airborne Geophysics	Also magnetics, as part of a property-wide survey
12/13/1999	Drilling	five holes, 767.5 m
12/13/1998	Ground Geophysics	
12/13/1998	Remote Sensing	
12/13/1979	Geochemistry	
12/13/1979	Drilling	14 holes, 1483.5 m
12/13/1979	Geology	
12/13/1978	Geochemistry	
12/13/1978	Geochemistry	
12/13/1978	Ground Geophysics	
12/13/1978	Trenching	
12/13/1978	Geology	

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		
094073	1999	Geophysical, Geochemical and Diamond Drilling Assessment Report for the Val, Vera and Rusty Claims	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, IP - Ground Geophysics, Line Cutting - Other	7	986.80
092725	1988	A Preliminary Diamond Drilling and Trenching Report on the Val-Vera Quartz Claims	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other, Backhoe - Trenching	12	1479.20
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		
090721	1980	Assessment Report Diamond Drilling Val 1-318 Claims	Diamond - Drilling, Drill Core - Geochemistry	9	1304
090615	1979	Assessment Report Geochemistry and Drilling Val 1 - 318 Claims	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Backhoe - Trenching	39	3158
090511	1978	Assessment Report on Geology, Geochemistry and Drilling at Val 1-318 Claims	Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Self-Potential - Ground Geophysics, Line Cutting - Other, Property Evaluation - Other, Prospecting - Other, Hand - Trenching	14	814