Occurrence Details

Occurrence Number: 106C 085
Occurrence Name: Little Red
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 6/15/2025 11:47:19 AM

General Information

Primary Commodities: lead, silver, zinc
Secondary Commodities: copper
Aliases: Val
Deposit Type(s): Manto Polymetallic Ag-Pb-Zn, Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)
Location(s): 64°15'44.87" N - -133°42'11.15" W
NTS Mapsheet(s): 106C05
Location Comments: Location based on 1979-8 drillhole (AR 090615)
Hand Samples Available: No
Last Reviewed:

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).). In 1979, Dome Petroleum Ltd replaced Siebens in the joint venture, and staked Val cl 319-376 (YA40125). In 1979, five holes were drilled on the Little Red Zone and bulldozer trenching was carried out on the lower slope. Dome dropped its interest and E & B's was transferred to Imperial Metals Ltd in 1983. The occurrence has seen rock and soil sampling, trenching, mapping, geophysical surveys and drilling starting in 1979. A regional airborne geophysical survey was conducted over the Val-Vera claim block in 2001 (no report available). In 2010, Archer Cathro and Associates Ltd. restaked the area as Rusty 1-344, including the claim underlying Little Red (Rusty 236, YD33476).

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 Little Red Zone comprises argentiferous galena, sphalerite and tetrahedrite hosted in sparry dolomite veins (likely Profeit Formation dolostone) and highly oxidized breccia zones. Its surface expression is a large, gossanous kill zone on a southwest-facing talus slope.

In 1978, rock sampling, soil sampling and reconnaissance mapping was carried out. In, 1979, three diamond drillholes partially delineated a lens of mineralization. The best drillhole (79-8) returned 126 g/t Ag, 2.2% Pb and 29.0% Zn over 6.10 m and 21 g/t Ag, 1.0% Pb and 2.9% Zn over 12.20 from near surface (AR 090615).

Diamond drilling in 1988 targeted structural extensions of the Little Red Zone, 150 m east of the occurrence, but encountered only poorly mineralized breccias and quartz veining in the host dolomites. Drillhole 88-7 encountered minor pyrite, siderite and sphalerite in narrow veins at 78.9 m to 79.5 m but assayed low for zinc (AR 092725).

Landsat imagery acquired in 1998 and processed to enhance areas of alteration highlighted the Little Red Zone (LRZ), but was of limited usefulness in identifying unknown targets. The LRZ displayed a weak chargeability response and is within a resistivity low, however, the 1998 IP survey did outline a chargeability anomaly south and downhill of LRZ

In 1999, drilling south and west of Little Red (VA-99-01 & 02) tested IP chargeability anomalies along the structural trend that contains the Little Red Zone. This drilling identified a sequence of black graphitic calcareous shale in brecciated sparry dolomite as the probable source of the anomaly and did not intersect mineralization (AR 094073).

In 2010, Strategic Metals dug three hand trenches and collected chip and grab samples from the Little Red Zone. Hand trenching focused on the top of the kill zone, the source of mineralized float, which was higher up the slope than previous bulldozer trenching. The western-most float train consists of abundant, closely spaced massive galena fragments with strong malachite staining and bands of oxide. The first trench successfully exposed a massive galena vein in bedrock, which assayed 3430 g/t silver, 64.34% lead and 7.38% zinc over 18 cm. A second trench 20 m uphill was unmineralized. The third trench was dug about 20 m east of the first trench, at the top of a float train composed of mineralized breccia and oxide fragments. That trench exposed highly fractured dolostone with abundant galena, sphalerite and limonite as fracture fillings. Chip samples across a 3.4 m section yielded a weighted average of 296 g/t silver, 8.27% lead and 19.64% zinc (AR 096938).

Work History

Date	Work Type	Comment
12/31/2001	Airborne Geophysics	Also magnetic survey. Carried out as part of a regional airborne survey.
12/31/1998	Ground Geophysics	
12/31/1988	Studies	
12/31/1979	Drilling	five holes, 1304 m.
12/31/1979	Geology	
12/31/1979	Trenching	

12/31/1978	Geology	
12/31/1978	Other	
12/13/2010	Geochemistry	
12/13/2010	Trenching	
12/13/1999	Drilling	two holes, 767.5 m to south and west
12/13/1998	Remote Sensing	
12/13/1988	Drilling	3 holes, 501 m
12/13/1978	Geochemistry	

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
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