



Occurrence Details

Occurrence Number: 106C 117
Occurrence Name: South Hill
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 5:57:39 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°15'27.96" N - -133°41'34.35" W
NTS Mapsheet(s): 106C05
Location Comments: Location based on showing map (AR 093968)
Hand Samples Available: No
Last Reviewed:

Capsule

Exploration 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). Work in 1978 included trenching, sampling, diamond drilling, soil sampling and ground geophysics. In 1979, Dome Petroleum Ltd replaced Siebens in the joint venture. Work in 1979 included drilling, trenching and mapping. In 1980, diamond drilling was carried out on the extension of the South Hill Zone Vein. Dome dropped its interest and E & B's was transferred to Imperial Metals Ltd in 1983. In Oct/97, 15966 Yukon Inc a wholly owned subsidiary of Manson Creek Resources Ltd staked Rusty cl 1-131 (YB99989). 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 South Hill Zone is underlain by laminated grey and white dolomite, referred to as the Val Dolomite in historical records. It is likely correlatable with Profeit Formation dolostone. Northeast trending fractures and minor faults with steep northeasterly dips are common. Mineralization is similar to the Big Red Zone (MINFILE 106C 115), which is coarse high-grade vein type mineralization in a carbonate breccia zone. Main minerals are galena, sphalerite and tetrahedrite. Small needles of quartz crystals line the vugs in the surrounding carbonate (AR 090511). The vein-like zone has an average width of 4.5 m and strike length of 300 m.

The best trench channel sample in 1978 returned 3.2 m of 42.35% Pb, 9.5% Zn and 1886.56 g/t Ag (AR 090511). Step out sampling to the west and north of the occurrence returned significant results, e.g. , 300 m to the west, channel sample of 15 cm of 35.91% Pb, 25.64% Zn and 898.34 g/t Ag.

In 1978, nine diamond drill holes targeted the South Hill Zone. Five holes intersected significant mineralization, two hit weak or narrow mineralization and two holes were dry. DDH-8-78 intersected 3.12 m of 19.85% combined Pb-Zn and 291.2 g/t Ag and a second interval of 3.26 m of 12.95% combined Pb-Zn and 266.37 g/t Ag. Mineralization consisted of galena, sphalerite, minor tetrahedrite, pyrite and possibly jamesonite in a gangue of white dolomite (AR 090511)

Drilling in 1979 (14 holes, 1483.5 m) targeted the downdip extension of mineralization drilled in 1978. Drilling indicated that the South Hill zone may consist of two areas of mineralization separated by a section of unmineralized dolomite (AR 090615). One of the better drillholes (DDH 1979-3) intersected 7.25 m of 550 g/t Ag, 5.45% Pb and 11.73% Zn. Later in the summer of 1979, six more holes were drilled to the southwest and one more hole to the northeast. The mineralization in these holes were lower grade than drilling earlier in the season.

In 1980, the projected extension of the South Hill Zone Vein was diamond drilled with nine holes. Four of the holes intersected mineralization. DDH 80-3 intersected 341 g/t Ag, 1.19% Pb, 4.78% Zn over 1.60 m. The work confirmed vein mineralization to a depth of 200 m below the 'apex' of the vein (AR 090721).

Work History

Date	Work Type	Comment
6/1/2019	Geochemistry	
6/1/2019	Other	
12/13/2001	Airborne Geophysics	Also magnetics in a regional survey.
12/13/1980	Drilling	Nine holes, 1034 m, South Hill Extension.
12/13/1979	Drilling	14 holes, 1483.5 m AND 6 holes, 710.49 m
12/13/1979	Trenching	
12/13/1979	Geochemistry	
12/13/1979	Geology	
12/13/1978	Geochemistry	
12/13/1978	Drilling	9 holes, 456 m

12/13/1978	Geochemistry	
12/13/1978	Ground Geophysics	Ground EM and IP
12/13/1978	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096607	2012	Assessment Report Describing Metallurgical Testing, Wildlife Monitoring, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
096253	2011	Assessment Report Describing 2011 Drilling and Geochemical Sampling at the Rusty Property	Diamond - Drilling, Soil - Geochemistry	9	1340
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