Occurrence Details

Occurrence Number: 106C 149
Occurrence Name: Archie's Vein
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 8/6/2025 1:46:01 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°15'38.58" N - -133°41'17.89" W
NTS Mapsheet(s): 106C05
Location Comments: Location based on showing map (AR 093968).
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.). Sampling, reconnaissance mapping and a diamond drilling of one hole was carried out in 1978 and diamond drilling of three holes was performed in 1979 at the Archie's Vein occurrence. In 1979, Dome Petroleum Ltd. replaced Siebens in the joint venture. Dome dropped its interest and E & B Exploration's interest was transferred to Imperial Metals Ltd in 1983. In October, 1997, 15966 Yukon Inc a wholly owned subsidiary of Manson Creek Resources Ltd. staked Rusty cl 1-131 (YB99989) over the occurrence. Manson Creek Resources optioned the Val claims in 1998. A regional airborne geophysical survey was conducted over the claim block in 2001 by Manson Creek (no report available). ATAC Resources Ltd. re-staked the area as the T series claims (e.g., T 289, YD10019) in 2010, covering the occurrence.

Regional & Property 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. An arcuate east-west trending, south-dipping normal fault lies north of the occurrence, separating it from Paleoproterozoic Wernecke Supergroup clastic rocks and Upper Proterozoic Pinguicula Formation clastics and carbonates to the north.

The following property description is summarized from Kammerer & Eaton (2011):
The southern section of the Rusty property has several distinct units of dolostone, including a unit called the "Val dolostone" which hosts many of the known showing in the area. The Val dolostone contains white, sparry dolomite veins and is characterized by a zebra texture of light and dark layers. Overlying the Val dolostone is a distinct, orange weathering dolostone, which is considered to be a marker horizon that is readily traceable in areas of good outcrop exposure.

The Archie's Vein prospect, discovered in 1978 near the Tetrahedrite showing (MINFILE occurrence 106C 116), is a sparry, white dolomite vein within grey dolomitic host rock, likely correlating to the Profeit Formation (AR 090615).

Mineralization & Results:

Archie's Vein consists of a lens of sparry, white dolomite striking 150° and dipping vertically exposed for approximately 8 metres along strike. The vein has a 0.3 m wide core of massive galena with an envelope of disseminated sphalerite. A single drill hole in 1978 by Prism intersected minor, low-grade mineralization, but was not assayed. (AR 090615). Drilling was performed again in 1979 with the best assays returned in hole 79-28, which intersected 1.2 m of 632 g/t Ag, 15.34% Pb and 12.8% Zn (AR 090615).

Work History

Date	Work Type	Comment
12/13/2001	Airborne Geophysics	Also magnetics in a regional survey.
12/13/1979	Drilling	Three diamond drill holes.
12/13/1978	Drilling	One diamond drill hole.
12/13/1978	Geology	Reconnaissance mapping.

Related References

Number	Title	Page(s)	Reference Type	Document Type
2003-9(D)	Yukon Digital Geology (version 2)		Yukon Geological Survey	Open File (Geological - Bedrock)