



Occurrence Details

Occurrence Number: 105G 074

Occurrence Name: Bev

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 12/16/2025 3:38:23 AM

General Information

Secondary Commodities: chromium, copper, gold, lead, nickel, silver, zinc

Deposit Type(s): Unknown

Location(s): 61°29'57" N - -131°15'35" W

NTS Mapsheet(s): 105G06

Location Comments: 1 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Bev cl 114-125 (Y83603) in Oct/74 following airborne surveys by Hudson Bay Exploration and Development Company Ltd, which conducted ground mag and EM surveys in 1975.

Welcome North Mines Ltd staked a large block of Mag claims (1-120, YB15135) to the south west in Jan/88. In Aug/88 the company added Mag cl 121-140 (YB15135) to their claim holdings. During the 1988 field season, the company carried out reconnaissance geological mapping, prospecting and soil and rock sampling.

In Jun/94 Cominco Ltd staked Chub cl 1-18 (YB49482) 3 km to the north to cover EM and magnetic anomalies determined from an airborne survey flown earlier in the year. Later in the year Cominco carried out reconnaissance scale geological mapping and rock and soil sampling programs and in 1996 carried out one day of regional mapping on the claims. In Jul/97 Cominco optioned the claims to Pacific Bay Minerals Ltd, which carried out a short exploration program in Sep/97. In Nov/98 Pacific Bay returned the claims to Cominco.

The occurrence was restaked within Tin cl 97-196 (YB77185) in Feb/96 by Cominco Ltd which carried out a regional exploration program later in the year (see Minfile Occurrence #105G 016 for earlier work).

Capsule Geology

The Finlayson Lake area is dominantly underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks of the Yukon-Tanana Terrane (YTT) that have been intruded by Mississippian granitic intrusions and later Jurassic, Cretaceous and Eocene intrusions (Murphy et al., 2001). The YTT is a volcanic-plutonic pericratonic arc assemblage that was strongly deformed and metamorphosed by Late Triassic time. Volcanic-hosted massive sulphide deposits exist at different stratigraphic positions within the YTT including the Fyre Lake deposit (Minfile Occurrence #105G 034) in the Devonian to lower Mississippian(?) Fire Lake mafic metavolcanic unit, the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Mississippian Kudz Ze Kayah felsic metavolcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the Lower Mississippian Wolverine Succession.

The occurrence lies within Upper Devonian biotite-muscovite+/-feldspar quartz schist of Murphy et al.'s (2001) unit Dq. Hudson Bay's Bev claims appear to have been mainly underlain by Devonian to Mississippian biotite and chloritic schists, while Welcome North Mines' Mag original claims were underlain by Fire Lake metavolcanic unit rocks and serpentinized ultramafic rock of the Late Devonian North Lakes meta-diorite. Serpentinized ultramafic intrusions were also reported on the Bev claims. Ground magnetics and EM geophysical surveys carried out on the entire Bev claim block outlined numerous EM anomalies, some of which were tested with diamond drilling in 1975 and 1976. However, no anomalies associated with this occurrence were tested.

Soil sampling on the Mag claims outlined a broad arsenic anomaly related to listwaenite zones locally developed within serpentinite ultramafic intrusions. The listwaenite zones form roughly lenticular to tabular bodies up to 50 m thick and several hundreds of metres long along the base of the ultramafic intrusion. Fresh surfaces show a wide spectrum of colours depending on composition; including greens (fuchsite/mariposite, actinolite, chlorite) greys, buffs and white (talc, carbonates, quartz). Arsenic values range up to 6250 ppb. Numerous but scattered gold anomalies (up to 490 ppb Au) are confined to the arsenic anomaly.

Outcrop on the Chub claims is generally limited to ridge tops and consists of Devonian to Mississippian Fire Lake metavolcanic rocks: massive, well foliated quartz-chlorite-biotite-feldspar phyllitic schists and phyllites with minor dark grey, variably carbonaceous phyllitic argillite and chloritic phyllites. Several magnetic and non-magnetic mafic sills and dykes intrude the sequence. Soil geochemistry revealed a series of weak to strong Cu (51 to 259 ppm) anomalies with a strong Cr-Fe +/- Ni-Ag metal signature in an area of a magnetic mafic intrusion (probably a serpentinized ultramafic intrusion). Follow-up regional mapping in 1996 failed to return any significant results.

Pacific Bay spent one day exploring the Chub claims. A float sample collected from a frost heave in an area of quartz-biotite-chlorite-feldspar phyllitic schist returned 2751 ppm Zn and 10.8 ppm Cd with no associated precious metal values.

The Tin claims covered Upper Devonian biotite-muscovite-quartz +/-feldspar schist (unit Dq; Murphy et al., 2001). Cominco expanded the Tin claims to cover favourable stratigraphy. Soil samples were collected along north-trending claim lines and rock samples were collected during regional mapping and prospecting. Soil samples identified spotty anomalous values for Pb (up to 87 ppm), Zn (up to 526 ppm) and Ag (up to 6.5 ppm) scattered throughout the expanded claim block. No significant mineralization was found during the regional mapping and prospecting program.

References

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Work History

Date	Work Type	Comment
12/31/1997	Geology	
12/31/1996	Geology	
12/31/1996	Geochemistry	Also rock sampling.
12/31/1994	Geology	
12/31/1994	Airborne Geophysics	Also magnetic survey.
12/31/1994	Other	
12/31/1988	Geology	
12/31/1988	Geochemistry	Also rock sampling.
12/31/1988	Other	
12/31/1975	Ground Geophysics	Also magnetic survey.
12/31/1974	Airborne Geophysics	Also magnetic survey.
12/13/1975	Drilling	Seven holes, 737 m.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093550	1996	Report on a Helicopter-Borne Electromagnetic and Magnetic Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093717	1996	1996 Assessment Report Tin and Chub Properties Linecutting, Geological Mapping/Prospecting, Geochemistry, Airborne and Ground Geophysical Surveys	Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other		
093391	1995	1995 Assessment Report Tin property Soil Geochemistry and Geological Mapping	Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
060148	1972	Geology and Geochemistry, Hoo Occurrence	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
Bev-11	Mink-Bev	1976	BQ	0	1
Bev-7	Mink-Bev	1976	BQ	0	5

Bev-2	Mink-Bev	1975	BTW	0	1
Bev-4	Mink-Bev	1975	BTW	0	1