

Occurrence Details

Occurrence Number: 105G 074 Occurrence Name: Bev Occurrence Type: Hard-rock Status: Anomaly Date printed: 6/16/2025 1:12:03 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 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. |
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Assessment Reports that overlap occurrence

| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled |
|------------------|------|---|--|------------------|-------------------|
| <u>093550</u> | 1996 | Report on a Helicopter-Borne Electromagnetic and Magnetic Survey | Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics | | |
| <u>093717</u> | 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 | | |
| <u>093391</u> | 1995 | 1995 Assessment Report Tin property Soil Geochemistry and Geological Mapping | Soil - Geochemistry, Detailed Bedrock Mapping - Geology | | |
| <u>060148</u> | 1972 | Geology and Geochemistry, Hoo Occurrence | Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology | | |

Drill core at YGS core library Year Drilled Number Property Core Size Photos Data Bev-11 Mink-Bev 1976 BO 0 1 Mink-Bev 1976 ΒQ 0 5 Bev-7

| <u>Bev-2</u> | Mink-Bev | 1975 | BTW | 0 | 1 |
|--------------|----------|------|-----|---|---|
| Bev-4 | Mink-Bev | 1975 | BTW | 0 | 1 |