



Occurrence Details

Occurrence Number: 105G 107

Occurrence Name: Rivier

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 12/15/2025 1:07:20 PM

General Information

Primary Commodities: magnesium

Secondary Commodities: copper, gold, lead, molybdenum, zinc

Aliases: Coach

Deposit Type(s): Unknown

Location(s): 61°32'2" N - 131°2'13" W

NTS Mapsheet(s): 105G11

Location Comments: Location from map in AR 095783

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Rivier cl 1-72 (YB14311) in Jul/88 by Welcome North Mines Ltd. The company added Rivier cl 73-128 (YB15237) the following month and carried out geological mapping and geochemical sampling later in the year.

Cominco Ltd staked Nik cl 1-12 (YB50995) 1 km to the southwest in Jul/94, to cover EM and magnetic anomalies identified during a regional airborne survey flown earlier in the year. The company carried out geological mapping, prospecting and soil sampling later in the year.

Restaked as Coach cl 1-20 (YB69038) in Oct/95 by Expatriate Resources Ltd which carried out geological mapping, soil sampling and prospecting the following year.

In Jul/96 J. Ruza staked JB cl 1-20 (YB85256) 1 km to the south. Ruza never filed any assessment work and the claims lapsed the following year.

In Jul/97 Cominco optioned various surrounding claim blocks, including the Nik claims, to Pacific Bay Minerals Ltd. The company carried out reconnaissance exploration programs on some of the claims and used excess assessment credit to renew the Nik claims for 1 year. In Jun/98 the Nik claims were allowed to lapse.

Restaked as OC cl 1-62 (YB94385) in Nov/2002 by Expatriate Resources Ltd. Expatriate optioned these claims and others to Entourage Mining Ltd in Mar/2003 subject to certain option payments and related work commitments. Entourage carried out a contour soil sampling program in Sep/2003. Entourage dropped the option in Nov/2005.

Capsule Geology

The Finlayson Lake region 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, the Wolverine deposit (Minfile Occurrence #105G 072) within the Lower Mississippian Wolverine Succession and the Ice deposit (Minfile Occurrence #105G 118) in Early Permian Campbell Range basalt.

The quartz-biotite, quartz-muscovite and muscovite-chlorite-biotite-quartz-feldspar schists and interbedded carbonaceous argillite, siltstone and calcareous siltstone rocks that outcrop on the Coach claims correlate with the Fire Lake mafic metavolcanic unit and Upper Devonian schists of unit Dq (Murphy et al., 2001). Serpentinized ultramafic rocks of the Late Devonian North Lakes Meta-diorite unit intrude the eastern part of the claim block and a mid-Cretaceous monzonite stock intrudes west of the claim block.

The occurrence consists of arsenic anomalies in soil overlying quartz-carbonate alteration zones which occur along the margins of serpentinized ultramafic rock located within the hanging wall of a thrust fault. Welcome North reported scattered weak gold values were found within the arsenic anomalies.

Soil sampling by Cominco returned a single, strong coincident arsenic-silver anomaly with elevated lead response, several weak copper-silver anomalies and a single point lead anomaly. It appears none of the anomalies were followed-up.

Expatriate's soil sampling program outlined two anomalies of interest. The first consists of a 200 m wide by 500 m long area in the northwestern corner of the claim block which returned weakly to moderately anomalous, copper, zinc and molybdenum values. The anomaly which strikes perpendicular to topography, is bounded by two normal faults and is underlain by chloritic phyllite and a siltstone/quartzite unit. The second anomaly consists of moderately to strongly anomalous copper values obtained downhill from a quartz-carbonate altered ultramafic. This anomaly may be the same one reported by Welcome North.

The OC claims are underlain by Upper Devonian and Older metapsammites (unit Dq) and Fire Lake metavolcanics (unit DF). A long cylindrical shaped ultramafic body of Late Devonian age intrudes on the east side of the claim block and a large Cretaceous granitic body intrudes on the west side of the claim block. Entourage Mining focused their exploration efforts on finding emerald mineralization similar to that hosted by Regal Ridge (Minfile Occurrence #105G 147) located 38 km to the southeast. Emeralds at Regal Ridge are hosted by Fire Lake metavolcanics in contact with ultramafic intrusions. The Regal Ridge deposit hosts elevated levels of beryllium and chromium in soils. Soil sampling by Entourage returned background levels for the elements in question. The company did not carry out any further work on the OC claims and the claims were allowed to lapse in Nov/2005.

References

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Work History

Date	Work Type	Comment
5/1/2011	Geochemistry	
5/1/2011	Geology	
5/1/2011	Other	
5/1/2010	Geochemistry	
5/1/1996	Geology	
5/1/1996	Geochemistry	
5/1/1996	Other	
12/31/2003	Geochemistry	Exploring for emerald potential.
12/31/1997	Geology	Reconnaissance scale.
12/31/1995	Geology	
12/31/1995	Geochemistry	
12/31/1995	Other	
12/31/1994	Geology	
12/31/1994	Geochemistry	
12/31/1994	Airborne Geophysics	Also magnetic survey.
12/31/1994	Other	
12/31/1988	Geology	
12/31/1988	Geochemistry	
12/13/1988	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095783	2011	Prospecting and Geochemical Sampling at the Coach Property	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
095326	2010	Report on the 2010 Geological and Geochemical Work on the Rivier Property	Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
094427	2003	Geochemical Report on the OC Claims	Soil - Geochemistry		