



Occurrence Details

Occurrence Number: 115I 079

Occurrence Name: Ori

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 4/28/2025 4:28:55 PM

General Information

Secondary Commodities: copper, gold

Aliases: Apex, Mel

Deposit Type(s): Porphyry Cu-Mo-Au

Location(s): 62°40'10" N - -137°17'45" W

NTS Mapsheet(s): 115I11

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

*In Apr/2010 the occurrence was moved 2.25 km to the northwest.

Staked originally as Ori cl 1-24 (Y62978) and cl 25-64 (Y63458) in Oct/71 by NRD Mining Ltd, which conducted geological mapping and grid soil sampling in 1972 and by a small program of bulldozer trenching in 1973.

Adera Mining Ltd staked See cl 1-24 (Y62803) to the east and B cl 2-12 (Y62827) and cl 17-40 (Y62838) to the southeast in Oct/71. In Mar/72 the company optioned a 50% interest in the claims to Consolidated Standard Mines Ltd which carried out geological mapping and grid soil sampling later in the summer. In 1973 Consolidated Silver carried out minor trenching and in 1974 re-analyzed the previously collected soil samples for gold and mercury. The company carried out a small "check soil sampling" program in 1975.

In Jul/97 the land surrounding this occurrence was withdrawn from staking as part of the Selkirk First Nation's Final Land Claims Agreement. The occurrence area lies on Category A Land and as such all matters relating to exploration and or claim staking are controlled by the First Nation. (In Apr/2010 the occurrence was moved 2.25 km to the northwest).

In Feb/2006 Minto Explorations Ltd (Sherwood Copper Corp) staked Mel cl 1-120 (YC41187) northwest of the withdrawn land parcel. At the same time S. Ryan staked a block of Apex claims over some of the Mel claims resulting in a claim dispute. The dispute was settled by cancelling those claims which overlapped each other.

In Jun/2006 S. Ryan staked Apex cl 1-27 (YC47182 = east block) and cl 28-39 (YC47209 = west block) overtop the disputed claims. In Nov/2006 Ryan optioned a 100% interest in the Apex and 14 other neighbouring claim groups to BCGold Corp in return for cash, shares and certain work commitments. In 2007 BCGold collected two lines of Mobile Metal Ion (MMI) soil samples across the length of the east block of Apex claims and carried out prospecting and reconnaissance rock sampling on both the east and west blocks of the Apex claims. The company also flew a combined magnetic-radiometric airborne geophysical survey over both blocks of Apex claims.

In Mar/2008 Sherwood Copper signed a Memoranda of Understanding with Firestone Ventures Inc whereby Sherwood's wholly owned subsidiary, Minto Explorations Ltd, would receive an equity interest in a new public company; Northern Tiger Resources Inc, created by Firestone in exchange for contributing four groups of mineral claims (including the Mel claim block) in the Minto region, access to Minto Explorations extensive Yukon exploration database and participation in a regional alliance. The four claim groups lay outside of, but in close proximity to the Minto mine property. In addition Minto Exploration would retain back-in rights to acquire a 65% interest in any Northern Tiger projects located within a 50 km radius that are found to have mineralization amenable to processing at the existing Minto Mine facilities. During the summer of 2008 Northern Tiger Resources carried out geological mapping and reconnaissance-style soil and silt sampling on the Mel claims.

In 2008 BCGold collected MMI soil samples on the west block of Apex claims and conducted infill MMI soil sampling on the east block of Apex claims. In Sep/2009 the company carried out an IP geophysical survey and collected further MMI soil samples on the east block of Apex claims.

During the summer of 2009 Northern Tiger Resources flew a combined magnetic-radiometric airborne geophysical survey over the Mel claim block.

Capsule Geology

The area is located approximately 7 km north of Sherwood Copper Corp's Minto Mine (Minfile Occurrences #115I 021 and 022), on the north side of an unnamed creek which marks the northern boundary of the Selkirk First Nation's land withdrawal. The area is covered by deep overburden and outcrop is sparse. Geological information regarding this area is based on the occasional outcrop, geological work carried on the adjoining Minto Mine and on airborne geophysics. Based on these sources it appears that the area is underlain by intermediate to felsic intrusive and meta-intrusive rocks of the Early Jurassic Granite Mountain batholith, specifically the Minto pluton, which intrudes the boundary between Stikinia and Yukon-Tanana terranes. The Minto pluton intrudes Upper Triassic augite-phyric basalts of Stikinia to the east and north, and Early Mississippian meta-plutonic rocks assigned to the Simpson Range plutonic suite, of the Yukon-Tanana terrane to the west. Its eastern contact with Triassic rocks is locally faulted. To the south the Minto pluton is in fault contact with basalt of the Upper Cretaceous Carmacks Group. Further south the Carmacks Group unconformably overlies the southern portion of the Granite Mountain batholith. North of the Minto property, Pliocene and younger basalt flows of the Selkirk Group cover the Early Jurassic intrusion.

At the Minto Mine, the Minto pluton is predominantly composed of granodiorite. Hood et al., noted three distinct varieties of the granodiorite in the pluton. The first variety is a megacrystic K-feldspar granodiorite. It gradually ranges in mineralogy to quartz diorite and rarely to quartz monzonite or granite, typically maintaining a massive igneous texture. An exception occurs locally where weakly to strongly foliated granodiorite is seen in distinct sub-parallel zones several metres to tens of metres thick. A second variety of igneous rock is a folded quartzofeldspathic gneiss with centimetre-thick compositional layering and folded by centimetre to decimetre-scale disharmonic, gentle to isoclinal folds. The third variety of intrusive is a biotite-rich gneiss. Minto geologists consider all units to be similar in origin and are variously deformed equivalents of the same intrusion. Copper sulphide mineralization is found in the rocks that have a structurally imposed fabric ranging from weak foliation to strongly developed gneissic banding.

The Mel and Apex claims appear to be primarily underlain by foliated to non-foliated hornblende-biotite granite with occasional aplite dykes. To the north and northwest the granodiorite is overlain by Pliocene and younger basaltic flows. Geological mapping over the years has identified the occasional outcrop hosting trace malachite staining however no significant copper or other mineralization has been identified to date. It is quite possible any mineralization has been weathered away or covered by the deep overburden.

The original occurrence location appears to mark an old trench discovered by NRD Mining in 1972. The trench measures approximately 30 metres square and was excavated to a depth of approximately 1 m. The trench which appeared to have been dug in the early 1900's exposed glacio-fluvial material that had been transported some distance. A single piece of malachite stained quartz was found in the trench. Soil sampling by the company over their Ori claims outlined a few isolated copper anomalies (< 90 ppm copper) scattered throughout the claim block.

Soil sampling carried out on the B and See claims by Consolidated Standard Mines in 1972 outlined a few isolated weak copper anomalies (< 100 ppm copper) scattered throughout the claim block. The samples were also tested for silver and molybdenum but only 1 sample returned a molybdenum value above threshold. The company attempted to bulldozer trench in 1973 but difficult surface conditions prevented completion of the program. The 1974 re-analysis of the 1972 soil samples returned anomalous gold and mercury values that could not be substantiated by resampling in 1975.

Soil and silt sampling carried out in 2008 on the Mel claims outlined several subtle copper anomalies on the claims.

BCGold's airborne geophysical survey and Mobile Metal Ion (MMI) soil sampling programs outlined a coincident copper MMI - magnetic high on the Apex West claim block. On the Apex East

claim block MMI soil sampling has outlined three parallel copper +/- gold trends, individually measuring up to 800 m in length and width. A follow-up pole-dipole induced polarization (I.P.) survey defined 3 proximal and continuous north and northwest trending zones of high chargeability and resistivity coincident with the geochemical anomalies and magnetic high features previously identified in an earlier flown airborne geophysical survey. The 3 coincident geophysical and geochemical anomalies are similar in size and magnitude to targets routinely drilled and in some cases mined for high grade copper and gold-bearing sulphide mineralization at the neighbouring Minto Mine located approximately 5.5 km along trend to the south. I.P. anomaly centres range from near surface to 150 m deep and all anomaly trends remain open along strike.

*The new occurrence location marks the approximate centre point of the largest coincident geochemical - I.P. geophysical anomaly located on the Apex East claim block.

References

BCGOLD CORP, Jan/2008. Assessment Report # 094849 by R.A. Doherty.

BCGOLD CORP, Dec/2008. Assessment Report #095066 by G. Newton.

BCGOLD CORP, News Release. 27 Nov/2006, 13 Jun/2007, 9 Sep/2009, 125 Jan/2010, 6 Feb/2110.

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NRD MINING COMPANY LTD, Oct/72. Assessment Report #060123 by A.R. Archer.

TAFTI, R. AND MORTENSEN, J.K., 2004. Early Jurassic porphyry (?) copper (-gold) deposits at Minto and Williams Creek, Carmacks Copper Belt, western Yukon. In: Yukon Exploration and Geology 2003, D.S. Emond and L.L. Lewis (eds.), Yukon Geological Survey, p. 289-303.

TEMPLEMAN-KLUIT. D.J., 1984. Geology, Laberge (105E) and Carmacks (115I), Yukon Territory. Geological Survey of Canada, Open File 1101, 1:250 000 scale.

YUKON EXPLORATION AND GEOLOGY 2007, p. 25, 2008, p. 33, 2009, p. 46, 55, 56.

Work History

Date	Work Type	Comment
12/31/2009	Ground Geophysics	Carried out on Apex East and West claim blocks.
12/31/2008	Geology	Reconnaissance scale on Mel.
12/31/2008	Geochemistry	Mobile Metal ion on Apex West claim block, infil MMI on Apex East claim block, soil sampling on Mel claims.
12/31/2007	Airborne Geophysics	Also magnetic survey flown over both Apex claim blocks.
12/31/2007	Geochemistry	Mobile Metal Ion sampling on Apex East.
12/31/1975	Geochemistry	Check sampling of 1974 results on B and See claims.
12/31/1974	Geochemistry	Re-analyzed samples.
12/31/1974	Trenching	
12/31/1973	Trenching	
12/31/1972	Geology	
12/31/1972	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095468	2011	Apex East Claims Assessment Report Target Evaluation Diamond Drill Program	Diamond - Drilling, Diamond - Drilling, Drill Core - Geochemistry	6	1591.06
095395	2010	Assessment Report Geological, Geophysical and Geochemical Surveying on the MEL EAST Claim Block	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Resistivity -		

		Surveying on the MEL EAST Claim Block	Ground Geophysics, Prospecting - Other		
095396	2010	Assessment Report Geological, Geophysical and Geochemical Surveying on the MEL WEST Claim Block	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
095341	2009	Assessment Report Airborne and Ground Geophysical Surveying on the MEL EAST Claim Block	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, IP - Ground Geophysics		
095342	2009	Assessment Report Geophysical Surveying on the MEL WEST Claim Block	Process/Interpret - Pre-existing Data		
095269	2009	Technical Report on the APEX EAST Property - APEX 1-27 Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Line Cutting - Other, Property Evaluation - Other, Prospecting - Other		
095066	2008	BCGold Corporation 2008 Geochemical Report on the APEX Property Claims-APEX 1-39	Soil - Geochemistry		
094849	2007	Assessment Report on the APEX 1-39 Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
091340	1974	Diamond Drilling Report on the NAVAJO Mineral Claims	Diamond - Drilling, Magnetics - Ground Geophysics, Mechanical - Trenching	5	818.38
061139	1974	Report on the ROD and AL Claims Group	Soil - Geochemistry, Bedrock Mapping - Geology		
060846	1973	Geochemical Survey on the NAVAJO Claim Group	Soil - Geochemistry, Line Cutting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC013205	Map Sheet - 115-I-11 and 115-I-14 showing claim locations		Property File Collection	Geoscience Map (General)
ARMC013204	Map sheet - 115-I-11 and 115-I-14 with geology notations and claim locations - Part 2		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016619	Geology map - 115I/11 - Dark Creek		Property File Collection	Geoscience Map (Geological - Bedrock)