



Occurrence Details

Occurrence Number: 115I 032

Occurrence Name: Phelps

Occurrence Type: Hard-rock

Status: Showing

Date printed: 10/3/2025 5:54:42 PM

General Information

Secondary Commodities: copper, gold, molybdenum

Aliases: Tad/Toro

Deposit Type(s): Porphyry Cu-Mo-Au, Vein Polymetallic Ag-Pb-Zn+/-Au

Location(s): 62°31'5" N - 137°58'37" W

NTS Mapsheet(s): 115I12

Location Comments: Occurrence location marks location of minor bornite and chalcopyrite in quartz stringers near intrusive/metamorphic contact.

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Kook cl 101-164 (Y38873) in Oct/69 by Montana Mines Ltd. The company staked Pat cl 1-24 (Y40407) on the south end of the Kook claim block in Nov/69 and Apex cl 1-40 (Y49679) to the northwest in Feb/70. In Jun/70 Montana Mines optioned the claims to Phelps Dodge Corporation of Canada Ltd which added Apex cl 41-72 (Y52957) and Kook cl 165-172 (Y52991) later in the month. Phelps Dodge carried out geological mapping, soil sampling and a ground magnetic geophysical survey later in the year.

The claims were transferred to Chatham Resources Ltd in 1973.

Chevron Canada Resources Ltd staked Sil cl 1-6 (YA91912) in Jun/85 1.5 km to the northwest. The company carried out reconnaissance geological mapping and soil sampling later in the year.

Yukon Revenue Mines Ltd staked the PC cl 1-32 (YB24075) 0.5 km to the north and Annie cl 1-8 (YB24107) 3 km to the east and cl 9-24 (YB24115) 4 km to the northeast in Oct/88.

Restaked as Tad cl 206-325 (YC90309) in Aug/2009 by Northern Freegold Resources Ltd as part of their Tad/Toro property expansion (Minfile Occurrence #115I 031).

In Sep/2009 0851045 BC Ltd flew an airborne geophysical survey over the Tad/Toro property (including this occurrence). In Nov/2009 Northern Freegold optioned the Tad/Toro claims to 0851045 BC Ltd for cash, shares and certain work commitments. Northern Freegold retained a 3% net smelter return on the claims. Following the signing of the option agreement, 0851045 BC Ltd announced a merger with Uldaman Capital Corp. In Jan/2010 the merged companies formed a new company; Dawson Gold Corp.

In Jun/2010 the merged companies consolidated their shares on the basis of 2 old shares for one new share. On August 10, 2010 the merger was completed and the new Dawson Gold Corp shares began trading on the TSX Venture Exchange. During the 2010 exploration season Dawson Gold carried out ground Induced Polarization (IP) geophysical surveys over three grids, infill soil sampling on 6 grids, rehabilitated the airstrip, and drilled 8 diamond drill holes (1 516 m) on targets associated with the Tad/Toro mineral occurrence. The Phelps (this occurrence) occurrence only received cursory exploration work.

During the summer of 2011 Dawson gold completed a Quantec Geophysics Titan-24 deep penetrating IP ground based geophysical survey on the Tad/Toro occurrence. Only cursory exploration work was completed in and around the Phelps occurrence.

Capsule Geology

The area is located in the central Dawson Range, west-central Yukon approximately 25 to 30 km due east from Capstone Mining Corporation's Minto Mine. S. Johnston employed by the Yukon Geoscience office (now part of the Yukon Geological Survey) released a geological compilation in 1995 which covered the occurrence area. Johnston used data obtained from a Geological Survey of Canada Airborne Multiparameter Geophysical Survey (Open File 2816) to assist him in creating the compilation. Gordey and Makepeace (2003) released a geological compilation of the Yukon which included this area and various exploration companies have carried out geological mapping programs as part of their assessment requirements.

The occurrence area lies within the Yukon-Tanana terrane, an accreted terrane locally separated from strata of the ancestral North American margin by the northwest-trending Tintina fault. The northern portion of the area is underlain by granitic rocks assigned to the mid-Cretaceous Dawson Range batholith. The batholith is intruded by granite to quartz monzonite stocks and dykes assigned to the Late Cretaceous Prospector Mountain Suite (?). To the northeast the Prospector Mountain Suite rocks are intruded by mafic dykes and overlain by basaltic flows assigned to the Upper Cretaceous Carmacks Group. To the south the Dawson Range Batholith intrudes underlying Devonian to Mississippian metagranite, metagneiss, schist, quartzite and other metavolcanic and metasedimentary rocks assigned to the Wolverine Creek Metamorphic Suite. The north-westerly trending North Big Creek Fault trends across the centre of the area, following Hayes creek. The sub-parallel South Big Creek fault lies 2-3 km to the west. In the south a northerly trending extensional fault follows the west branch of Hayes Creek.

According to Johnston's 1995 geological compilation the occurrence area is underlain by a lobe of Devonian to Mississippian undifferentiated mica schist and quartzite surrounded by more deformed metagneous, metagneiss and metaschist rocks. Large granite intrusions, likely exposed portions of the Dawson Range batholith surround the metamorphic rocks to the north, southwest and east. Upper Cretaceous Carmacks Group volcanic rocks lay to the east.

Geological mapping by Phelps Dodge appears to indicate that the Kook, Apex and Pat claims cover a large stock of quartz monzonite intruding Devonian to Mississippian metasedimentary rocks. The intrusion is believed to be an exposed portion of the mid-Cretaceous Dawson Range batholith and is cut by a number of Late Cretaceous Prospector Mountain Suite (?) leucocratic stocks and dykes. Carmacks Group volcanic rocks intermingle with the quartz monzonite along the southern portion of the area. The discrepancy in geological mapping is likely explained by the fact that Phelps Dodge undertook a large geological mapping program that covered the majority of the area while Johnston relied heavily on the airborne geophysics for his mapping.

Minor bornite and chalcopyrite is reported to have been found in quartz stringers near the intrusive/metamorphic contact (occurrence location). Minor chalcopyrite was also found disseminated within a small area of the intrusion. Soil geochemistry outlined three small molybdenum-copper anomalies. Two anomalies high in molybdenum with some copper were outlined over fine-grained intrusions within the monzonite body. The third anomaly returned high copper values with minor molybdenum associated with Carmacks Group volcanics.

The Sil claims covered a gossan associated with a feldspar porphyry intrusion. The gossan was formed by weathering of minor disseminated pyrite. Soil sampling carried out by Chevron Canada identified 1 spot anomaly which returned 36 ppb gold (Eaton and Halleran - Freegold Venture Final Report).

A technical report prepared by J. Pautler for 0851045 BC Ltd outlined the 3 historic copper anomalies, the area where disseminated chalcopyrite was found within the granitic intrusive and the location of the original showing where bornite and chalcopyrite was observed in quartz stringers near the intrusive/metamorphic contact. The 2009 airborne survey identified three possible exploration targets associated with this occurrence. Two of the targets cover possible porphyry targets and while the remaining target covers an area hosting possible vein mineralization associated with porphyry dykes. To date none of these targets have been tested with diamond drill holes.

References

DAWSON GOLD CORP, Mar/2012. Management's Discussion and Analysis For the Nine Months Ended March 31, 2012. Available on SEDAR.

DAWSON GOLD CORP, Sep/2011. Assessment Report #095371 by J. McLaughlin and S. Hasek.

DAWSON GOLD CORP, News Release, 4 Jun/2010, 9 Aug/2010, 19 Aug/2010, 15 Nov/2010, 17 Dec/2010, 4 Mar/2011, 16 May/2011, 16 Aug/2011, 23 Jan/2012.

DAWSON GOLD CORP., Aug/2012. Website: www.dawsongold.com.

EATON, W.D. AND HALLERAN, W.H. Dec/85. Final Report of the Freegold Venture. This is a summary report of the entire 1985 Freegold Venture regional exploration program. Available from the EMR Library, Elijah Smith Building, Whitehorse, Yukon.

MINERAL INDUSTRY REPORT 1969-70, p. 71-72.

NORTHERN FREEGOLD RESOURCES LTD, News Release, 27 Aug/2009; 05 Nov/2009.

NORTHERN FREEGOLD RESOURCES LTD, Mar/2010. Web Site: www.northernfreegold.com

PHELPS DODGE CORPORATION OF CANADA LTD, 1970. Assessment Report #060212 by R.G. Hilker.

ULDAMAN CAPITAL CORP, News Release. 5 Nov/2009.

YUKON GEOLOGY AND EXPLORATION OVERVIEW 2010, p. 45, 61, 65, 2011 p. 52, 68.

0851045 BC LTD, December 20, 2009. Technical Report on the TAD/TORO Project, Whitehorse Mining District, by J. Pautler. (Available on SEDAR)

Work History

Date	Work Type	Comment
12/31/2009	Airborne Geophysics	Also radiometric survey. Flown over entire Tad/Toro property.
12/31/1985	Geology	
12/31/1985	Geochemistry	
12/31/1970	Geology	
12/31/1970	Geochemistry	
12/31/1970	Ground Geophysics	
12/13/2011	Geology	Cursory exploration work performed in and around this occurrence.
12/13/2010	Geology	Cursory exploration work performed in and around this occurrence.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095256	2009	Airborne Geophysical Assessment Report on the Tad-Toro Project	Electromagnetic - Airborne Geophysics, Gamma-Ray Spectrometry - Airborne Geophysics, Interpretation - Airphotography, Property Evaluation - Other		

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)
1993-3(G)	Geological Map of Wolverine Creek (115I/12), Dawson Range, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
YEG1992-pg49	Preliminary results of 1:50 000-scale geologic mapping in Wolverine Creek map area (115 I/12), Dawson Range, southwest Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1994-pg105	Interpretation of an Airborne Multiparameter Geophysical Survey of the Northern Dawson Range, Central Yukon: A Progress Report		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
1995-2(G)	Geological Compilation with Interpretation from Geophysical Surveys of the Northern Dawson Range, Central Yukon (115 J/9 & 10; 115 I/12)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
ARMC016620	Geology map - 115I/12 - Mount Pitt		Property File Collection	Geoscience Map (Geological - Bedrock)