



Occurrence Details

Occurrence Number: 115J 034

Occurrence Name: Gep

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 4/28/2025 11:52:14 PM

General Information

Secondary Commodities: copper, molybdenum

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

Location(s): 62°41'15" N - 138°59'55" W

NTS Mapsheet(s): 115J10

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Gep cl 1-32 (Y35852) in Jul/69 by H. Fromme and optioned to Glenlyon Mining Ltd. Explored by grid soil sampling and mapping in 1970.

Restaked Sep/92 as Maya 1-40 cl (YB37592) by Renoble Holdings Inc. Renoble staked Aztec cl 1-52 (YB37540) to the east and Koffee cl 1-58 (YB37482) to the north at the same time. In Jan/93 Renoble staked Ice cl 1-74 (YB37901) to the northwest. In Mar/93, Renoble optioned all of its claim holdings in the area (Ice, Maya, Aztec and Koffee) to Eastfield Resources Ltd, subject to a profit sharing agreement. Eastfield also optioned the adjoining Ana claims (located to the northeast) from Nordac Mining Corp at the same time.

In Feb/93 Eastfield optioned a 50% interest in the Aztec and Maya claims to Canadian Comstock Explorations Ltd in return for certain work commitments and option payments. During the 1993 field season Comstock carried out road building, geological mapping, rock and soil sampling and ground magnetic and IP geophysical surveys on the claims. Comstock's option was terminated in 1994.

In Jun/96 Eastfield consolidated the Maya and adjoining Aztec, Koffee, Ana, and Ice claim blocks into the Canadian Creek property. Following consolidation Eastfield entered into an option agreement with Alexis Resources Ltd whereby Alexis was granted the right to earn an undivided 51% interest in the property by incurring \$ 1 500 000 in expenditures, paying \$250 000 in option payments and issuing 200 000 shares before Jun/2000. In 1996 Alexis completed geophysical and geochemical surveys and extensive excavator trenching on the Koffee and Ana claims.

In May/97 Eastfield reorganized into two companies one of which is named Wildrose Resources Ltd. The Ana, Koffee, Maya, Aztec and Ice claims were transferred to Wildrose. In 1997 Wildrose and joint venture partner Alexis Resources conducted a program of road-building, drill-pad construction and prospecting on the Canadian Creek property.

In 1999 Wildrose carried out rock and soil sampling and road reclamation on the Ana and Koffee claims. In May/2000 Wildrose optioned 55 adjoining claims (Casino & claims) from Great Basin Gold Ltd (the successor company of Pacific Sentinel Corporation) and assumed responsibility for filing assessment work on 83 additional claims (Casino & claims) that cover the neighboring Casino deposit. Later in the year Wildrose drilled 12 diamond drill holes (2 066 m) on the Casino &, Ana and Koffee claims. In 2001 the company carried out an evaluation program on its entire Canadian Creek property. Although little work was completed near this occurrence, assessment credit from these programs was used to keep the Maya claims (including those surrounding this occurrence) in good standing.

In Dec/2002 Wildrose optioned a 60% participating interest in its Canadian Creek property to Canley Developments Inc. The agreement includes the claims covering this occurrence.

Capsule Geology

The region around the occurrence largely escaped Pleistocene glaciation. The result is that there is less than 1% outcrop by area over much of the region and weathered rocks commonly extend to depths of greater than 75m. Johnston (1995) used data acquired from an airborne multiparameter geophysical survey conducted in 1993 and 1994 to improve the existing geological knowledge of the region.

Johnston's work indicates that the area is underlain by Yukon Tanana Terrane rocks, consisting of Devonian to Mississippian metavolcanic and metaigneous rocks belonging to the Wolverine Creek Metamorphic Suite. The metamorphic rocks form a synform which is cored by intermediate rocks of the Mid-Cretaceous Dawson Range Batholith. The batholith consists of mafic, intermediate and felsic phases. The mafic and intermediate phases are sheet or sill-like bodies that are concordant with foliation in the 'pendant' and in adjacent metamorphic wall rocks. The felsic phase forms discordant plugs that intrude the more mafic phases of the batholith and its wall rocks.

The Dawson Range batholith is in turn intruded by the Casino Plutonic Suite which is represented by fine- to medium-grained leucocratic granite, quartz monzonite and alaskite with associated aplite phases. The Casino Plutonic Suite is composed of stocks up to 18 km in diameter and is only exposed in the Colorado Creek (NTS 115 J/9) and Selwyn River (NTS 115 J/10) map areas. The Casino Plutonic Suite was originally thought to be Late Cretaceous (70 Ma) but work by Selby et al., (1999) indicates that although the Casino Plutonic Suite intrudes the Dawson Range Batholith, its age is indistinguishable (104.2 +/- 0.5 Ma, U-Pb zircon). Late Cretaceous igneous activity produced a northwest-trending belt of small stocks, one of which, the Patton porphyry intrudes the Casino Plutonic Suite rocks and producing the copper-gold-molybdenum mineralization present at the neighboring Casino deposit (Minfile Occurrence #115J 028).

The occurrence is underlain by Dawson Range batholith biotite-hornblende granodiorite, with roof pendants of Devonian-Mississippian metasedimentary rocks, intruded by a small Late Cretaceous stock of alaskite. The granodiorite contains disseminated pyrite and shows sericitization of feldspar in one locality. Soil sampling by Glenlyon outlined a 335 m long copper soil anomaly in the occurrence area. A small 150 m by 150 m molybdenum soil anomaly occurs approximately 150 m to the south.

Comstock's exploration program concentrated on the western half of the adjoining Aztec claims. Several weak geochemical and geophysical anomalies were found however none were judged significant enough to warrant follow up work. The 1996 through 1998 work programs were carried out to follow up geophysical targets and delineate future drill targets. The bulk of the work was carried out on the adjacent Koffee and Ana claims.

No recent work appears to have been carried out in the vicinity of this occurrence.

References

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GLENLYON MINING LTD, Aug/70. Assessment Report #060219 by C.G. Carlson.

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GORDEY, S.P. AND MAKEPEACE, A.J. 2003: Yukon Digital Geology, version 2.0, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open file 1749 and Yukon

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WILDROSE RESOURCES LTD ET AL., Feb/2002. Assessment Report #094244 by J.W. Morton.

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WILDROSE RESOURCES LTD, Jan/99. Web Site: www.direct.ca/wildrose

YUKON EXPLORATION AND GEOLOGY 1993, p. 4, 6, 8; 1994 p. 10; 1996 p. 24, 30; 1997 p. 24, 35.

Work History

Date	Work Type	Comment
12/31/1997	Development, Surface	Built roads and drill pads.
12/31/1970	Geology	
12/31/1970	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096177	2012	Airborne Magnetic-Radiometric Survey Report on Grout, Quo Claim Groups at Doyle Creek area	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
096084	2012	Assessment Work Report-Airborne Magnetic-Radiometric Survey Report on Quo Claims Property	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
095429	2010	2010 Assesment Work Report-An Airborn Magnetic-Radimetric Survey Report on Grout Claims	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
060219	1970	Geological and Geochemical Report on the GEP 1-32 Mineral Claims-Dawson Range Area	Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other		
019098	1965	Geophysical Report-Cat Claims-Casino Creek Area	Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016557	Geology map - 115J/10 - Colorado Creek		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016558	Geochemical values total extraction map - 115J/10 - Colorado Creek		Property File Collection	Geochemical Map