

Occurrence Details

Occurrence Number: 115I 034

Occurrence Name: Prospector Mountain

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 5:00:19 AM

General Information

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

Aliases: Frog

Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au **Location(s):** 62°27'27" N - -137°53'40" W

NTS Mapsheet(s): 115105 Location Comments: 1 Kilometres Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Frog cl 1-96 (Y36840) in September and October 1969 by International Mines Services Ltd Syndicate (Prado Exploration Ltd, Gui-Por Uranium Mines Ltd, Lion Nickel Mines of Canada Ltd and Indian Mountain Metal Mines Ltd), which carried out grid soil sampling in 1970. The Wing cl 1-96 (Y40777) were staked south of the Frog claims in 1969 by Sabina Mines Ltd but were not explored. The PDY cl 1-48 (Y53415) were staked on the western border of the Frog claims in 1970 by Phelps Dodge Corp of Canada Ltd, which carried out grid soil sampling. The Pro cl 1-196 (Y58269) were staked to the east in Sep 1970 by Occidental Minerals Corporation of Canada, which carried out geological mapping and geochemical soil sampling in 1971.

Restaked as Lilypad cl 1-16 (YA25267) in August 1979 by Archer, Cathro and Associates Ltd and sold at cost to the Nat Joint Venture (Armco Mineral Exploration Ltd and Chevron Canada Ltd), which staked Lilypad cl 17-270 (YA51163) and Newt cl 1-155 (YA51157) and carried out prospecting and geochemical sampling in 1980. The joint venture carried out airstrip construction, extensive bulldozer trenching, geological mapping and geochemical sampling in 1981; geological mapping and drilling of 7 holes (637 m) in 1982; grid soil sampling in 1983 and drilling of 4 holes (884 m) in 1984.

Chevron subdivided the property into four blocks in spring 1989 and optioned them to Yukon Spirit Mines Ltd, Rinsey Mines Ltd, Tallow Gold Corp and Renoble Holdings, then sold its underlying interest to Yukon Spirit in the fall of that year. The optioners jointly constructed a road to the property in spring 1989 and completed it after freeze-up in the fall. Renoble and Yukon Spirit entered into a joint venture agreement with Rinsey Mines in 1990 and optioned all of the Lilypad and Newt claims. Rinsey performed trenching in 1992 before dropping its option in March 1993.

Restaked as Hayes cl 1-112 (YB66122) by D. Poliquin in September 1995. In Dec 1996 Republic Resources Inc staked Hayes cl 113-239 (YB97178). Poliquin transferred his claims to Republic in June 1997. Troymin Resources Ltd optioned the claims and formed a joint venture with Almaden Resources Corp in 1997 and carried out geochemical sampling of the claim group later that year, before staking Sam cl 240-272 (YC08343) in October 1997 on the southeast corner of the existing claim group. In 1998, Troymin carried out geological mapping, prospecting, rock geochemical sampling, IP, magnetic and radiometric geophysical surveying. Diamond drilling of two holes (336 m) was carried out in 1999.

Tarsis Resources Ltd. optioned the property from Almaden Minerals in 2008. Tarsis reassessed vein zones in historic trenches on the west part of the claim block and soil sampled. Tarsis also mapped and rock-sampled the Bonanza Zone, a porphyry target in the eastern part of the property, in 2009.

Capsule Geology

The 1969-70 claims were staked on lead and silver silt anomalies in an area underlain by Paleozoic(?) Yukon Tanana Terrane schist and gneiss overlain by Late Cretaceous Carmacks Suite volcanic flows, tuffs, tuffaceous sediments, agglomerates and flow breccias, and intruded by a coeval monzonitic laccolith of the early Tertiary Prospector Mountain Suite. Soil sampling located several areas anomalous in copper, lead and zinc, and prospecting located minor chalcopyrite and galena in narrow quartz veins cutting Carmacks volcanics on the Frog group, minor amounts of galena and sphalerite in a contact zone on the PDY group, disseminated pyrite within a syenite intrusive and sphalerite and fracture controlled malachite, tetrahedrite and enargite associated with acid dykes on the Pro claims.

Work on the Lilypad group was directed toward the gold and silver content of a swarm of steeply dipping, sporadically mineralized veins that strike north-northeast and range up to several metres in width. Individual veins have been traced for lengths of several hundred metres. Mineralization consists of silver and gold-bearing sulphosalts, galena and chalcopyrite in a pyrite quartz-carbonate, clay gangue with occasional specular hematite and tourmaline. A specimen of galena from one of the veins assayed 69.0% Pb and 3361 g/t Ag. Soils over the veins assayed as high as 5 g/t Au. Drilling in 1982 indicated that the veins are leached to a depth of at least 150 m.

Very few new veins were discovered in 1997 and work that year confirmed the sporadic nature of the vein mineralization. Sampling in the eastern portion of the claim group (No Sweat grid) indicated some potential for porphyry style mineralization and followup in 1998 identified a number of chargeability anomalies, the eastern most of which is coincident with copper and molybdenum soil anomalies outlined in 1972. A second area (Lightening grid) of previously identified anomalous copper and molybdenum, on the southwest flank of Prospector Mountain, was found to be associated with an IP chargeability anomaly that was also identified by magnetic and radiometric surveying. The area is host to an extensive zone of quartz-k-feldsparsericite alteration and pyrite mineralization that has been mapped on surface over a distance of 800+ m in length and up to 250 m in width. Low copper, gold, molybdenum and silver values were attributed to surface leaching that has been noted elsewhere in the district. Drilling on the Lightening grid in 1999 intersected disseminated pyrite mineralization that was believed to be the cause of the chargeability anomalies. No significant base or precious metal values were returned from sampling of the drill core.

Exploration in 2009 focussed on the porphyry target in the eastern part of the project referred to as the Bonanza zone. The mineralization at the Bonanza zone occurs along a 1200 m north-northwest structural trend near the contact between potassic-altered monzonite and overlying volcanic rocks. Vein material consisted of vuggy quartz and quartz breccia with hematite, tourmaline, hematized siderite and limonite. Some samples contained malachite and azurite as breccia clsts, matrix fillings or fracture fillings and rare pyrite and chalcopyrite. Vein material collected during the season assayed 82.8 g/t Au, 299 g/t Ag and 1.49% Cu. Rock samples from the Bonanza zone also generally exhibited elevated bismuth, arsenic, antimony and lead values.

Tarsis also reassessed vein zones in historic trenches on the west part of the claim block and soil sampled in 2009. Highlights include a channel sample from Area A (trench TR-09-21) of 1840 g/t Ag, 28.78% Pb, 0.70 g/t Au across 0.72 m. The Hart showing, a historical gold occurrence 1 km southwest of the Bonanza zone, was also sampled. It yielded 5.61 g/t Au, 65.8 g/t Ag, 0.34% Cu and 1% As in a rock sample.

References

GEORGE CROSS NEWSLETTER, 25 Mar 1991; 23 Dec 1991; 15 Mar 1993.

INTERNATIONAL MINE SERVICES LTD, Sep 1970. Assessment Report #060605 by D.H. Waugh.

MINERAL INDUSTRY REPORT 1969-70, p. 73; 1971-72, p. 58, 70.

NAT JOINT VENTURE, Feb 1981. Assessment Report #090741 by E.P. Onasick and A.R. Archer.

NAT JOINT VENTURE, Feb 1982. Assessment Report #090976 by A.R. Archer.

NAT JOINT VENTURE, Feb 1983. Assessment Report #091435 by W.D. Eaton.

PAYNE, J.G., Gonzalez, R.A., Akhurst, K. and Sisson, W.G., 1987. Geology of Colarado Creek (115J/10), Selwyn River (115J/09) and Propsector Mountain (115I/05) Map Areas, Western Dawson Range, West-Central Yukon. Indian and Northern Affairs Canada, Yukon Region. Open File 1987-3.

OCCIDENTAL MINERALS CORPORATION OF CANADA, Sept 1971. Assessment Report #061108 by G.C. Allebone and P.N. Mehrotra.

PHELPS DODGE CORP OF CANADA LTD, July 1971. Assessment Report #061109 by F.M. Smith.

SHIVES, R.B.K. AND CARSON, J.M., 1995. Airborne Geophysical Survey, Prospector Mountain, Yukon Territory, NTS 115I/05. Department of Energy, Mines and Resources, Geological Survey of Canada. Open File 3000.

SMUK, K.A., WILLIAMS-JONES, A.E., AND FRANCIS, D. 1997. The Carmacks hydrothermal event: An alteration study in the southern Dawson Range, Yukon. In: Yukon Exploration and Geology 1996, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 92-106.

TARSIS RESOURCES LTD., News Release, 21 Oct 2009; 5 Nov 2009.

TROYMIN RESOURCES LTD, Jan 1998. Assessment Report #093748 by R.A. Doherty and D. Oullette.

TROYMIN RESOURCES LTD, Sep 1998. Assessment Report #093889 by S, Casselman.

TROYMIN RESOURCES LTD, Oct 1999. Assessment Report #094037 by S. Casselman.

YUKON EXPLORATION 1991, p. 6.

YUKON EXPLORATION AND GEOLOGY 1979-80, p. 261.

YUKON EXPLORATION AND GEOLOGY 1981, p. 216; 1982, p. 201-202; 1983, p. 252; 1997, p. 30-31; 1998, p. 15; 1999, p. 18.

VANCOUVER STOCK EXCHANGE 1990, Open File.

WORK HISTORY	W	ork	History
--------------	---	-----	----------------

WORK HISTORY				
Date	Work Type	Comment		
12/31/2009	Geochemistry	Bonanza zone		
12/31/2009	Geochemistry			
12/31/1999	Drilling	Two holes, 336 m.		
12/31/1998	Geochemistry			
12/31/1998	Geology			
12/31/1998	Ground Geophysics	Also magnetic and radiometric surveying.		
12/31/1998	Other			
12/31/1997	Geochemistry			
12/31/1989	Development, Surface			
12/31/1984	Drilling	Four holes, 884 m.		
12/31/1983	Geochemistry			
12/31/1981	Geochemistry			
12/31/1981	Trenching			
12/31/1980	Geochemistry			
12/31/1980	Other			
12/31/1970	Geochemistry			
12/13/2009	Geology			
12/13/1992	Trenching			
12/13/1982	Drilling	Seven holes, 637 m.		
12/13/1982	Geology			
12/13/1981	Development, Surface			
12/13/1981	Geology			
12/13/1971	Geology			

12/13/1971 Geochemistry

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<u>095469</u>	2011	2011 Airborne Geophysical Survey on the Prospector Mountain Property, Yukon	Electromagnetic - Airborne Geophysics, Gamma-Ray Spectrometry - Airborne Geophysics, Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
095182	2010	Prospecting and Hand Trenching at the Prospector Mountain Property	Soil - Geochemistry, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Hand - Trenching		
<u>090976</u>	1981	Geological, Geochemical and Geophysical Report-Lilypad 1-429 Claims	Interpretation - Airphotography, Air Strip - Development, Surface, All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching		
<u>091435</u>	1980	Nat Joint Venture Diamond Drilling Report Lily pad 1-429 and Newt 1- 132, 135-163 Claims	Diamond - Drilling, Drill Core - Geochemistry, Bedrock Mapping - Geology	7	637
060605	1970	Geochemical Assessment Report on the Frog Claim Group	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		

Drill core at YGS core library

<u> </u>						
Number	Property	Year Drilled	Core Size	Photos	Data	
PM-11-11	Prospector Mountain	2011	NTW	8	3	
<u>LP-84-10</u>	Prospector Mountain	1984	NQ	22	0	
<u>LP-84-7</u>	Prospector Mountain	1984	NQ	29	0	
<u>LP-84-8</u>	Prospector Mountain	1984	NQ	20	0	
<u>LP-84-9</u>	Prospector Mountain	1984	NQ	22	0	
LP82-1	Prospector Mountain	1982	NQ	10	2	
LP82-2	Prospector Mountain	1982	NQ	6	2	
LP82-3	Prospector Mountain	1982	NQ	26	2	
<u>LP82-4</u>	Prospector Mountain	1982	NQ	8	2	
LP82-4A	Prospector Mountain	1982	NQ	12	2	
LP82-5	Prospector Mountain	1982	NQ	12	2	
LP82-6	Prospector Mountain	1982	NQ-BQ	6	2	