



Occurrence Details

Occurrence Number: 115N 041

Occurrence Name: Per

Occurrence Type: Hard-rock

Status: Prospect

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General Information

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

Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au

Location(s): 63°59'1" N - 140°47'4" W

NTS Mapsheet(s): 115N15

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Exploration History

Apparently found by placer miners prior to 1920 and first staked as Per, etc cl (76620) in Jun/65 by Per Johnson, who optioned it to General Enterprises Ltd. General Enterprises carried out bulldozer trenching and drilled two short holes in 1965.

Restaked as Dana, etc cl (Y56827) in Jun/70 by J. Bailey, etc, who carried out hand trenching. Cogasa Mines Ltd staked 6 claims (called mineral claims 1 to 6 - YA10391) 3.2 km northeast in Jul/77 in connection with nearby placer work and carried out bulldozer trenching in 1979. J. Trottier staked Martin cl 1-8 (YA47786), Rodger cl 1-8 (YA47818) and YBS cl 1-8 (YA47866) 4.8 km to the southeast in Oct/79. Trottier carried out trenching later in the year. In Jan/80, J. Millhouse staked Vance cl 1-2 (YA52675) 1 km to the north and in May/84, R. Stirling staked Quartz cl 1-4 (YA79880) between the occurrence location and the Vance claims.

Restaked as Delia cl 1-6 (YA87688) in Aug/85 by E. Kreft, who carried out trenching and geochemical sampling later that year. Kreft added Wendy cl 1-9 (YA88114) in 1986 and carried out additional trenching and sampling. Esso Minerals Canada briefly optioned the Delia and Wendy claims later in 1986 and carried out geological mapping and geochemical sampling in August. In Oct/86 Esso staked Sixty Mile cl 1-51 (YA88238) along strike to the southwest and northeast and carried out geological mapping and geochemical rock sampling in 1987. Esso carried out additional geological mapping and geochemical sampling of the northeast block of Sixty Mile claims and magnetometer surveying over their entire claims holdings in 1988. Kreft optioned the Delia and Wendy claims to Klondike Gold Mining Corporation which carried out magnetometer surveying in 1988 and diamond drilling of 4 holes (192 m) in 1989.

Homestake Mining (Canadian) Ltd optioned the Sixty Mile claims in Apr/89 and carried out geological mapping and geochemical rock sampling of newly exposed bedrock in placer pits later in the year. In May/92, R. Stirling transferred the Quartz claims to J. McFaul. K. Hawker partially restaked the northeast block of Sixty Mile claims as Kurt cl 1-4 (YB81760) in May/96 and Kreft carried out trenching on the Delia claims in the summer of 1996. J. Millhouse staked Vance cl 3-5 (YC04305) to adjoin the northeast end of his existing Vance claims in Jun/97.

Restaked as Dorothy cl 1 (YC07261) by F. Travis and Jay cl 1 (YC07262) by J. Murtagh in May/98. In Aug/98 Kennecott Canada Exploration Inc staked Sixty cl 1-143 (YC12289) to the northeast, forming a contiguous claim block with other claim groups they had staked or optioned over the previous year in the area to the north (Minfile Occurrences #116C 019, 020, 082 and 146). In Apr/99 Kennecott staked Sixty cl 144-257 (YC13419) at the southeast end of their assembled land package, surrounding this occurrence, and carried out prospecting, geochemical sampling and airborne geophysical surveying over their combined holdings. The following year, Kennecott dropped all of its options in the area.

In 2000, McFaul contracted Amerock Geosciences Ltd to carry out VLF-EM geophysical surveying and prospecting of his Quartz claims.

Capsule Geology

Galena, sphalerite and arsenopyrite occur in a northeast trending vein which cuts a small down-faulted block of Late Cretaceous volcanics that are correlative with Carmacks Group volcanic rocks. The volcanic rocks overlie Late Devonian (?) to mid-Mississippian aged Nasina assemblage schists of the Yukon Tanana Terrane. The vein is about 8 to 60 cm wide and is exposed for up to 60 m along strike. The best chip assay reported was 428.6 g/t Ag, 26.4% Pb, 4.7% Zn, and 1.4 g/t Au across 76 cm.

Kreft's 1986 trenching tested a 91 m wide zone of altered andesite containing massive pyrite lenses, quartz stockworks, and disseminated chalcopyrite and galena. Specimens from the trenches assayed up to 26 g/t Au and 42.5 g/t Ag. The highest silver values were obtained 460 m north of the main showing area. All four of Klondike's drillholes intersected granodiorite dykes of probable Late Cretaceous age (unit lKqdr) containing quartz veins and stockworks with pyrite and arsenopyrite. DDH #2 intersected 12 m grading 7.1 g/t Au, including 1.5 m grading 41.1 g/t Au. The mineralized intersection was also enriched in Zn and Hg (E. Kreft, personal communication).

Homestake's 1989 samples contained up to 402 ppb Au and 7.9 ppm Ag. Brecciated andesite with 1-2% pyrite returned a value of 204 ppb Au and was also anomalous levels of silver, arsenic, bismuth, copper and tellurium.

Cinnabar was recovered in sluice boxes by placer miners along this portion of the Sixty Mile River gravels but the source was never found. Esso investigated strongly fractured andesite flows and andesite breccia with local clay alteration but obtained disappointing results.

Glasmacher and Friedrich (1992) recognized two types of veins in this area: a gold-bearing pyrite-arsenopyrite type and a silver-bearing galena-sphalerite type, both of which they related to Late Cretaceous volcanic activity. The Miller Creek veins are of the second type, and this is reflected in the notably higher silver content (9 to 35 weight %) of gold nuggets from the lower part of Miller Creek. Four stages of mineralization are recognized: (1) iron-poor sphalerite-galena-quartz; (2) iron-rich sphalerite-pyrite-pyrrhotite-arsenopyrite-chalcopyrite-galena-siderite; (3) sphalerite-pyrite-marcasite-chalcopyrite-galena-siderite-ankerite-dolomite-calcite; (4) iron-poor sphalerite-pyrite-tetrahedrite-polybasite-pearcite-pyrostilpnite-chalcedony-ankerite-dolomite-calcite. Most of the silver was deposited during Stage 4. Fluid inclusions indicate that the veins formed from low temperature, low salinity fluids with a pH of about 4.6.

Geophysical surveying carried out on McFaul's Quartz claims located four weak VLF-EM conductors. Limited prospecting and sampling (two grab samples) carried out at the same time as the surveying failed to detect any significant mineral occurrences. Analysis of quartz vein material collected just east of the claim block returned 13 ppb Au and 858 ppm As.

Work History

Date	Work Type	Comment
7/1/2020	Airphotography	
7/1/2011	Other	
7/1/2011	Ground Geophysics	
7/1/2011	Ground Geophysics	
7/1/2010	Geochemistry	
7/1/2010	Drilling	

7/1/2010	Geochemistry	
7/1/2010	Drilling	
7/1/2010	Trenching	
7/1/2010	Airborne Geophysics	
7/1/2010	Airborne Geophysics	
7/1/1990	Drilling	
7/1/1990	Geochemistry	
7/1/1988	Drilling	7 holes, 770.34 m
7/1/1986	Other	
7/1/1969	Geochemistry	
7/1/1969	Drilling	
7/1/1969	Geology	
7/1/1969	Geochemistry	
7/1/1969	Geochemistry	
7/1/1969	Trenching	
7/1/1969	Geochemistry	
7/1/1969	Other	
12/31/1999	Geochemistry	Also rock sampling.
12/31/1999	Airborne Geophysics	Also radiometric survey.
12/31/1999	Other	
12/31/1996	Trenching	
12/31/1989	Drilling	Four holes, 192 m.
12/31/1988	Geochemistry	
12/31/1988	Geology	
12/31/1988	Ground Geophysics	
12/31/1986	Geochemistry	
12/31/1986	Geology	
12/31/1986	Trenching	
12/31/1970	Trenching	
12/31/1965	Drilling	Two short holes, footage unknown.
12/31/1965	Trenching	
12/13/1979	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096208	2010	SIXTY MILE Property-2010 Geological, Geochemical, Geophysical and Auger, RAB and Diamond Drilling	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Auger - Drilling, Diamond - Drilling, Rotary - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Mechanical - Trenching	443	7289.37
094055	1999	Report on the 1999 Geological, Geochemical and Geophysical Work on the SIXTY MILE Property	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Gravity Survey - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Mechanical - Trenching		
120128	1990	Auger Drilling Report for Prospecting Lease 7684, Sixty mile River, Dawson Mining District	Auger - Drilling, Drill Cuttings - Geochemistry, Panning - Placer Processing	8	72.50
091734	1986	1986 Exploration Program-Geological Mapping and Sampling on the Delia and Wendy Quartz Claims, Yukon Territory	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
061130	1969	Report on the 1969 Exploration Program in the Sixtymile River Area, Yukon Territory	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Mechanical - Trenching	8	431.59
		Summary Report for the Connaught Mines Ltd., Sixty Mile Area			

060840	1969	Summary Report for the Combauchin Mines Ltd. Sixty mile Area, Yukon	Cursory Property Visit - Other, Data Compilation - Pre-existing Data		
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Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC004674	Correspondences Re: Activities in Miller Creek, Fifty mile resources		Property File Collection	Miscellaneous Company Documents
88-004	Gold-Silver Property 'Delia-Wendy' Sixtymile River Area, Yukon Territory, Canada		Yukon Government: Energy, Mines and Resources	YMEP Report