



Occurrence Details

Occurrence Number: 116C 082
Occurrence Name: Yaremico
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 4/29/2025 7:10:46 AM

General Information

Secondary Commodities: arsenic, barite, gold, mercury, tungsten
Deposit Type(s): Vein Au-Quartz
Location(s): 64°0'22" N - -140°50'43" W
NTS Mapsheet(s): 116C02
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Elsie, etc cl (57860) in Jun/53 by J. Feichtinger, J. Paradis and J. Castonguay, who carried out hand trenching later in the year. Restaked as WK cl (58274) in Aug/55 by W. McLean.

Both "A" & "B" occurrences were staked in May/65 within Klonx cl 1-40 (76564) by J.F.V. Millar, who carried out geochemical sampling, geological mapping and bulldozer trenching later in the year. Occurrence "B" was staked as Mary cl No. 1 (Y90228) in Oct/74 by W. Yaremicio, who carried out hand trenching from 1975-77. Yaremicio then restaked the surrounding area as Mary cl 1-9 (YA10752) in Sep/77; staked the bottom of the Miller Creek valley as Mary cl 1-24 (YA47921) in 1980; added WY cl 1-3 (YA64262) in Aug/81 and carried out bulldozer stripping and road work in 1982.

The Mary and various other claims were trenching by Territorial Gold Placers Ltd in 1982 and transferred to Sixty Mile Enterprises Ltd in 1984. Sixty Mile trenched on various Mary claims in 1991 and 1992.

Homestake Mineral Development Company staked Glac cl 1-62 in Nov/83 (YA65380) west of occurrence "A" and northwest of occurrence "B". The company carried out geochemical rock and soil sampling and geological mapping in 1983. J. Millhouse tied on Vance cl 1-2 (YA52675) east of occurrence "B" in Jul/80 and carried out trenching in 1984 and 1985.

Klondike Gold Mining Corporation tied on Cojo cl 1-4 (YA89385) southeast of occurrence "B" in Jun/87 and carried out geological mapping and geochemical sampling and added Rich cl 1-9 (YB5574) to the east in 1988. In Feb/88 Golden Rum Resources Ltd staked Rod cl 1-74 (YB04668) north and west of occurrence "A" and Ney cl 1-40 (YB04742) to the southwest (Minfile Occurrence #115N 123). The Rod and Ney claims were transferred to J. Bergvinson, who subsequently optioned them to Layfield Resources Inc in Aug/88. Layfield carried out grid geochemical soil sampling and hand trenching on the Rod claims; contour geochemical soil sampling and a single line of magnetometer surveying on the Ney claims; and rock and stream sediment sampling on both claim blocks later in 1988. J. Bergvinson performed 410.7 m of drilling on the Rod cl 32 and 34 in 1990.

Occurrence "A" was restaked as Glacier cl 1-18 (YC07626) in Jul/98 and cl 19-28 (YC12170) in Aug/88 by Teck Corporation. The company carried out prospecting, geological mapping and rock and soil sampling in 1999.

In Aug/98 Kennecott Canada Exploration Inc optioned the Mary and most of the other adjoining claims, (except for Teck's Glacier claims) in the area (Minfile Occurrences #116C 019, 020 and 146) and staked Sixty cl 1-143 (YC12289) south of occurrence "A" In 1999 Kennecott carried out prospecting, geochemical sampling and airborne geophysical surveying over their combined claim holdings and excavator trenching of six trenches (661 m) south of Miller Creek before dropping all its options in the area the following year.

Occurrence "A" was restaked as Mike cl 21-40 (YC27090) in May/2003 by S. Schmit. M. McDougall staked Mike cl 1-20 (YC27028) to the northwest at the same time. In Feb/2007 McDougall transferred his claims to 14844 Yukon Inc.

R. Hulstein staked Rod cl 1-8 (YC36191) 2 km southwest of occurrence "A" in Jul/2005. Hulstein carried out a small rock and soil sampling program in 2006.

Capsule Geology

The occurrences are underlain by rocks of the Yukon Tanana Terrane which in this area are comprised of graphitic quartzite and phyllite of the Late Devonian(?) to mid-Mississippian Nasina assemblage and mainly felsic schists of the mid-Permian Klondike Schist assemblage. A small body of hornblende-biotite granodiorite gneiss of Early Mississippian age occurs within the Nasina assemblage rocks along the lower reaches of Miller Creek. These units all occur as thrust panels of regional extent which are the result of northerly to northeasterly directed thrust faulting that postdates the Late Triassic but predates the mid-Cretaceous. Locally, Late Cretaceous aged volcanic rocks typically consisting of massive andesitic flows and breccias, that are correlative with Carmacks Group volcanics, unconformably overlie the other units.

Territorial Gold Placers 1982 trenching program exposed an area of intense shearing and strong carbonate, pyrite and silica alteration in bedrock exposures on WY claim 2. Cinnabar crystals, barite nodules, scheelite and wolframite occur in placer gravels draining the property but have not been found in bedrock.

Dawson Eldorado's mapping in 1988 identified a silicified, dolomitic carbonate layer which strikes northeast across the property and forms a persistent marker. In the northwest corner of the Gla claims a 68 Ma diorite plug intrudes the Nasina assemblage rocks. Erratic gold-arsenic soil anomalies ranging up to 5 times background are believed to be related to northeast-trending shear zones. A specimen of pyritic sericite schist assayed 83 ppb gold and 190 ppm arsenic.

Layfield's work in 1983 on the Rod claims identified a distinct northeast trending soil geochemical anomaly in the southwestern part of the claim block (location marker 082A) that is approximately 750 m in length and returned peak values of 825 ppb gold, 1056 ppm arsenic and 2.8 ppm silver. A background enrichment in mercury levels in samples of the Late Cretaceous volcanic rocks collected in proximity to the lower location marker (082B) is reflected in anomalous soil geochemical values of up to 9200 ppb mercury from analysis of soil samples collected in this area.

Glasmacher and Friedrich (1992) described mesothermal quartz-carbonate-sulphide veins which cut the metamorphic rocks in this area. Their studies indicate two stages of vein formation. Weakly anomalous gold values are associated with arsenopyrite deposited from high temperature (320-350°C) saline fluids (12.8 wt% NaCl equivalent) of the first stage.

Sampling in this area on the south side of Miller Creek, adjacent to the upper occurrence location marker (082A) by Kennecott in 1999 delineated a 1500 by 2000 m area (Miller Creek soil anomaly) that hosts a 40 ppb to 100 ppb Au in soil anomaly. Trenching exposed several massive quartz veins and veinlets ranging from 1 to 50 cm wide and containing up to 2% coarse grained arsenopyrite. The best gold mineralization was from a 9 cm wide, northwest trending, southwest dipping quartz vein with trace pyrite found within an altered zone of rusty weathering, locally bleached and silicified Nasina assemblage rocks. Chip sampling across the zone, the strike length of which is unknown, returned 1.63 g/t gold over a width of 13 m. Hulstein focused his exploration around Kennecott's trench 99-6 where previous trenching exposed 13 m averaging 1.6 g/t gold. Soil sampling indicated additional auriferous source areas (>40 ppb gold), north and northwest of the known Miller Creek soil anomaly. A float grab sample collected near the backfilled trench and consisting of arsenopyrite in narrow (<5 mm) siliceous bands parallel to foliation returned 2.17 ppm gold.

Work History

Date	Work Type	Comment
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12/31/2006	Geochemistry	
12/31/2006	Geochemistry	Also silt sampling.
12/31/1999	Trenching	
12/31/1999	Airborne Geophysics	Also radiometric survey.
12/31/1999	Other	
12/31/1991	Drilling	Two holes, 410.7 m
12/31/1982	Trenching	
12/31/1975	Trenching	
12/31/1965	Geochemistry	
12/31/1965	Trenching	
12/31/1953	Trenching	
12/13/1999	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096256	2011	Report on the Sixty Mile Property 2011 Geophysical Survey & Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry, EM - Ground Geophysics, IP - Ground Geophysics, Line Cutting - Other	4	1225.60
096256	2011	Report on the Sixty Mile Property 2011 Geophysical Survey & Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry, EM - Ground Geophysics, IP - Ground Geophysics, Line Cutting - Other	4	1225.60
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		
092692	1988	Report on the 1988 Geological and Geochemical Assessment Work on the Headwaters Project	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Prospecting - Other, Hand - Trenching		
091797	1985	Assessment Report for the LGC 1-129 Claims in the Sixty Mile River/Miller Creek Area	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Heavy Mineral Concentrate - Lab Work/Physical Studies, 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
060840	1969	Summary Report for the Connaught Mines Ltd.-Sixty Mile Area, Yukon	Cursory Property Visit - Other, Data Compilation - Pre-existing Data		
017434	1965	Geological and Geochemical Exploration Program-KLONX Claim Groups	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Mechanical - Trenching		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC013231	Notes, sketch map, correspondence re: Sixty Mile mercury property - Chefkoi 116-C-2		Property File Collection	Miscellaneous Company Documents
ARMC013232	Map Sheet 116-C-2 and notes on Glacier Creek mercury showing - Chefkoi		Property File Collection	Geoscience Map (General)
ARMC016712	Geology map - 105N/15		Property File Collection	Geoscience Map (Geological - Bedrock)
1992GeoVol3_17	Gold-sulphide enrichment processes in mesothermal veins of the Sixtymile River area, Yukon Territory, Canada		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
1996-1(G)	Geological Compilation Maps of the Northern Stewart River Area, Klondike and Sixtymile Districts (115N/15, 16, 115O/13, 14 and Parts of 115O/15, 16)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)