



Occurrence Details

Occurrence Number: 105K 083

Occurrence Name: Rebel

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 8/5/2025 4:03:50 PM

General Information

Secondary Commodities: copper, indium, lead, silver, tin, zinc

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

Location(s): 62°26'16" N - -133°11'5.57" W

NTS Mapsheet(s): 105K06

Location Comments: Location marks approximate center point of recent drilling.

Hand Samples Available: No

Last Reviewed: Nov 10, 2014

Capsule

Work History

*As of Jun/2013 the Silver Range Project consists of 4 744 mineral claims. This occurrence record covers the Rebel zone/occurrence which lies within 179 Reb mineral claims.

Originally staked as KD cl 1-26 (Y10219) in Sep/66 by Giant Yellowknife Mines Ltd which carried out geological mapping and soil sampling in 1967.

In Oct/66 Altair Mining Corporation Ltd staked AM cl 1-16 (Y10929) on the west side of the KD claims. In 1967 the company carried out geological mapping, soil sampling, EM and gravity surveying, and drilled 3 holes (354 m). In Aug/67 Altair Mining added AM cl 17-26 (Y20817) to the south west and north sides of their existing claim block.

The KD claims were optioned in 1968 to Mercury Exploration Ltd, which staked other claims to the south and conducted a reconnaissance gravity survey over their claim holdings (including the KD claims) in 1969.

In 1970 by Kangaroo Exploration Ltd, a subsidiary of Cyprus Mines Corporation optioned the Mercury Exploration and Giant Yellowknife claims. From 1970 to 1972 Kangaroo Exploration carried out grid soil sampling, geological mapping, gravity and Turam geophysical surveys on the KD and other claims. In Sep/71 the company staked Taf cl 1-64 (Y62459) east and south of the KD claims.

In late 1972 Kangaroo Exploration drilled 4 holes (629 m) on the KD claims. A year later the company drilled an additional 3 holes (about 600 m).

In 1976 the Mercury, Kangaroo and Giant Yellowknife claims were optioned by Cyprus Anvil Mining Corporation, which carried out Turam, gravity and magnetometer surveys. In 1978 Cyprus Anvil drilled 4 holes (750 m) elsewhere within their large claim block.

In 1978, the KD group reverted to Giant Yellowknife, which drilled 4 holes (609 m) on the KD claims.

In 1980 Cyprus Anvil drilled one hole (481 m) on MX cl 184 located approximately 2 km to the southwest.

Restaked as Reb cl 1-12 (YB27539) in Jun/90 by YGC Resources Ltd, which carried out a prospecting program later in the year. As part of their assessment report YGC completed a compilation map containing the locations all known drill hole locations and significant rock and soil sample results.

Restaked as Hot cl 1-2 (YC19031) in Dec/2000 by R. Hamel. Hamel allowed Hot claim #2 to lapse the following year and paid cash in lieu every year until Jan/2010 when Hot claim #1 was purchased by Strategic Metals Ltd.

In Feb/2010 Strategic Metals Ltd surrounded Hot cl #1 (YC19031) with Reb cl 1-20 (YD09253).

In Mar/2010 K. Wagantall staked Wag cl 1 (YD21801) approximately 1.25 km to the southeast.

Beginning in Jun/2010 Strategic Metals collected 20 wide spread grab and composite rock samples and carried out grid soil sampling over the main Rebel geochemical anomaly. The company also flew a regional ZTEM geophysical survey over all its claim holdings in the area including the Reb claims.

In July/2010, following receipt of preliminary geochemical analyses Strategic Metal staked Reb cl 21-56 (YD62918) Later in the summer Strategic Metals carried out contour soil sampling southeast, southwest and west of the main Rebel geochemical anomaly and reconnaissance silt sampling of all creeks in the area. The company also compiled all historical data for the area.

In Aug/2010 Strategic Metal staked Reb cl 57-72 (YD28035). In Nov/2010 the company staked Reb cl 73-179 (YD01179) and announced the amalgamation of the Reb claim block with the Keg property (located 17 km to the north) and other newly discovered neighbouring areas of porphyry hosted silver-zinc-lead-copper mineralization to form the Silver Range Project.

On January 11, 2011 Strategic Metals announced its intention to spin-out the Silver Range Project and the gold rich Mint Project (Minfile Occurrence 115F 087) located in southwestern Yukon into a new precious metal focused company; Silver Range Resources Ltd. The company and its shareholders would receive shares and purchase warrants in the new company.

In Jun/2011 Strategic Metal commenced their 2011 exploration program. The company carried out a large exploration program on its entire Silver Range Project. Work carried out on this occurrence includes geological mapping carried out over the mineralized zone, collection of 4 samples of massive galena mineralization and 3 diamond drill holes (535.49 m) collared within the Rebel zone to confirm a 69 m long interval of 2.28% zinc, 0.10% copper and 0.10% lead returned from previous drillhole K-72-7. The three holes were designed to confirm the historical result and to test beneath the northern margin area which hosts coincident mineralized float and anomalous soil geochemistry.

On July 19, 2011 Strategic Metals shareholders approved the plan to spin-out the Silver Range Project and the Mint property into a new company Silver Range Resources. On August 9, 2011 the Plan of Arrangement was approved by various securities regulators and Silver Range Resources became the owner/operator of the Reb and other claim blocks.

In Aug/2012 Silver Range Resources completed a 19 hole (1104.9 m) reverse circulation percussion drill program to test anomalous geochemical anomalies associated with northerly-trending topographic linears. The company also contracted a geophysical company to combine, process and analyze all geophysical data collected on the Silver Range Project including the area covered by this occurrence.

Capsule Geology

The occurrence is located approximately 23 km north of the town of Faro and approximately 356 km by road from Whitehorse. The Faro area is world renowned for its zinc-lead-silver-barite massive sulphide deposits, mining of which began in 1969 and continued with interruptions until 1997. Access to the occurrence location is currently provided by helicopter however a rough tote road exists that runs north from the former Faro mine site to the occurrence area. This road was used in 2012 to move the reverse circulation percussion drill to the occurrence area.

The occurrence is located within the Selwyn Basin a tectonic element comprising deep water clastic rocks, chert and minor carbonate that accumulated along the North American continental margin during Paleozoic time. In the occurrence area the Selwyn Basin lies immediately northeast of units belonging to Slide Mountain and Yukon-Tanana Terranes the most easterly of the allochthonous terranes. Deformation and metamorphism associated with accretion of the terranes was initiated in Jurassic and culminated in Cretaceous. More recently, strike-slip faulting along the Tintina fault resulted in about 450 km of dextral offset during Early Tertiary time. The area is located about 40 km northeast of the fault.

Geological mapping carried out in 2011 over the main Rebel mineralized zone found that the occurrence area is underlain by 3 primary rock units, Ordovician to Silurian age. The first unit comprises volcanic and volcanoclastic rocks that are cut extensively by orange weathering, iron carbonate veins. The second unit comprises black, strongly carbonaceous shale and the third unit, variably deformed, green volcanic breccia interbedded with green, recemented volcanoclastic sandstone, siltstone and tuffaceous rocks and local amygdaloidal basalt flows. The three units are conformable and interbedded.

L. Pigage (2004) of the Yukon Geological Survey assigned the rocks to the Menzie Creek Formation while geologists employed by Silver Range Resources and others assign the rocks to the Marmot Formation. Based on recent mapping programs the Marmot Formation will likely become the accepted name. Regardless the formation dominantly strikes east-southerly and dips shallowly to moderately to the north. Cleavage generally strikes northeasterly and dips to the northwest or southeast. Iron-carbonate veins are mostly orientated to the north-northwest or east-northeast and have variable dips. Mineralization at the Rebel zone is entirely hosted within the third unit.

In 1966 Giant Yellowknife Mines Ltd discovered mineralized float on the KD claims in a well-developed gossan zone near the crest of a small mountain. The zone was camouflaged by intense frost boiling and solifluction and light grass cover. The company collected small fragments of quartz-carbonate gangue in mainly sericite schist that contained galena, sphalerite and some chalcopyrite. The mineralized rock was intensely oxidized and leached to honeycombed siderite with rare lenses of primary sulfide. A composite grab sample of the least oxidized material returned trace gold, 294.85 g/t silver, 8.8 % lead, 1.2 % zinc and 0.2% copper. The galena recorded a silver-lead ratio of about 1:1 and is accompanied on surface by a small amount of unleached sphalerite.

Grid based soil sampling outlined a strongly anomalous lead, zinc and copper anomaly over the center of the KD claims. An airborne geophysical magnetic and electromagnetic survey outlined a strong conducting zone south of the gossan.

Altair Mining Corporation carried out soil sampling and ground electromagnetic and gravity surveys over the center of their claim block. The electromagnetic survey outlined a north-northeast trending conductor that appears to be an extension of the conductor discovered on the KD claims to the east. Soil sampling outlined a copper, lead and zinc anomaly south of the conductor theorized to be caused by low grade disseminated mineralization.

Soil sampling conducted in 1971 by Kangaroo Exploration outlined a highly anomalous lead, zinc and copper anomaly measuring approximately 762 m wide by 1 524 m long centered over the central portion of the KD claims. A smaller coincident silver anomaly lies within the large anomaly. Peak values returned were 10 600 ppm zinc, 4 800 ppm lead, 1 650 copper and 5.0 ppm silver.

In 1972 Kangaroo Exploration followed-up the geochemical anomaly with geological mapping and Turam magnetometer and gravity surveys. Later in the summer the company tested the various geochemical and geophysical anomalies with 4 drill holes (629 m). The best intersection from this drilling was hole 72-7 located along the northern edge of the known mineralized area which intersected approximately 60 m grading 2.3 % zinc including a 3.0 m interval grading 6.6 % zinc, 0.3 % copper. 0.4 % lead, 36.3 g/t silver and 0.2 g/t gold. The mineralization was described as being associated with quartz-sericite-carbonate alteration, and occurs both as disseminations and within amygdules and deformed carbonate veinlets. Follow-up drilling conducted in 1973 failed to intersect any significant mineralization.

In 1977 Giant Yellowknife Mines carried out limited electromagnetic and magnetic surveys around the locations of the 1972-73 drilling. The following year the company collared 4 diamond drill holes to follow-up the identified anomalies. The holes intersected minor mineralization but no assays were taken.

Exploration to the end of the 1970's concentrated on identifying volcanogenic massive sulphide deposits similar to the neighbouring Faro deposit. As no large deposits were identified, all claims in the area, including the KD claims were allowed to lapse as accumulated assessment credit was used up.

YGC Resources restaked the occurrence to investigate the possibility that known mineralization might be genetically related to concordant massive sulphide mineralization within the volcanic rocks. The company collected representative rock samples from the main mineralized zone. Results were proportionally lower than previous samples but did return a relatively high arsenic response. No evidence for this type of deposit was found and the claims were allowed to lapse in Mar/93.

The 2010 rock samples were collected from gossanous talus located within a 500 m diameter area where previous operators had discovered mineralization. Eighteen of the samples returned results averaging 107 g/t silver, 1.41 % zinc, 2.54 % lead, 0.73 % copper, 129 ppm tin and 37 ppm indium. Soil sampling carried out in 2010 and 2011 outlined a broad (1 750m long by 1 100 m wide) area of strongly anomalous silver, zinc, lead, copper and tin values referred to as the Rebel zone.

The three diamond drill holes completed in 2011 on the Rebel zone were collared near the northern margin of the soil anomaly. Drill hole Reb 11-2 returned 155.84 g/t silver, 12.43 % lead and 3.07 % zinc over a 6.16 m interval. The hole cut fracture-related galena and sphalerite mineralization in partially oxidized volcanoclastic rocks.

The 2012 reverse circulation drill holes targeted potential near-surface, bulk mineable mineralization. Three section lines were used to establish the general location of the holes, however, the actual collars locations were sometimes offset due to topography. All holes, but one were drilled at 90 degrees and a dip of -45 degrees. All holes intercepted volcanoclastic rocks, which are oxidized from surface to the maximum depth of the holes (61 m). Broad intervals of low to medium grade mineralization were encountered, including drill hole RCH-12-07 which averaged 11.49 g/t silver, 0.14 % lead, 1.17 % zinc, 0.10 % copper, 275.2 ppm tin and 32.65 ppm indium over 25.90 m. Six of the holes ended in mineralization.

Work History

Date	Work Type	Comment
12/31/1990	Geochemistry	Collected samples to verify previous results.
12/31/1978	Drilling	Four holes, 609 m on the KD claims.
12/31/1976	Ground Geophysics	Also gravity and Turam surveys.
12/31/1973	Drilling	Three holes, ~600 m on the KD claims.
12/31/1972	Drilling	Four holes, 629 m collared on the KD claims.
12/31/1970	Ground Geophysics	Also Turam EM survey .
12/31/1970	Geology	
12/31/1970	Geochemistry	Grid based.
12/31/1969	Ground Geophysics	
12/31/1967	Drilling	Three holes, 354 m collared on AM claims.
12/31/1967	Geology	Carried out on KD and AM claim blocks.
12/31/1967	Geochemistry	Grid based over center of claim block .
12/31/1967	Ground Geophysics	Also EM survey .
12/13/2012	Drilling	Nineteen holes, 1,104.9 m drilled along three lines.
12/13/2012	Pre-existing Data	Hired company to combine, process and analyze all geophysical data collected to date.
12/13/2011	Geochemistry	Collected 4 samples of massive galena for laboratory tests.
12/13/2011	Drilling	Three holes, 535.49 m collared in Rebel zone to verify previous result.
12/13/2011	Geology	Around Rebel zone.
12/13/2010	Airborne Geophysics	Flown over company's entire claim holdings.
12/13/2010	Pre-existing Data	Compiled all previous data.
12/13/2010	Geochemistry	Collected 20 grab samples to verify previous results.
12/13/2010	Geochemistry	Collected grid based over Rebel zone and contour southeast, southwest and west of Rebel zone.
12/13/2010	Geochemistry	Sampled all surrounding creeks.
12/13/1990	Pre-existing Data	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096836	2015	Assessment Report Describing Geological Mapping and Sample Collection by PhD Candidate, Drill Pad Reclamation and Equipment Backhauling	Reclamation - Development, Surface, Rock - Geochemistry, Bedrock Mapping - Geology, Process/Interpret - Pre-existing Data		
096671	2013	Assessment Report Describing Geological Mapping, Prospecting, Geochemical Surveys and Diamond Drilling	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Hand - Trenching	9	1182.44
096480	2012	Assessment Report Describing Geology, Mineralization, Geochemical Surveys, Diamond Drilling, Metallurgical Testing and Mineral Resources at the Keg Property	Diamond - Drilling, Rotary - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	84	30320.42
096033	2011	Assessment Report Describing Geological Mapping, Prospecting, Geochemical Sampling, Geophysical Surveying, Baseline Water Surveying, Wildlife Surveying, Trenching and Diamond Drilling	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other, Environmental Assessment/Impact - Studies, Hand - Trenching	51	16808.37
092963	1990	Summary Report on 1990 Exploration Reb Claims	Rock - Geochemistry, Prospecting - Other		
091244	1978	Report on Diamond Drilling Vangorda Property	Diamond - Drilling, Drill Core - Geochemistry	4	609.60
091243	1973	[1972-1973 Diamond Drilling on KD Property for Kangaroo Exploration Corporation]	Diamond - Drilling, Drill Core - Geochemistry	6	1115.90
060994	1972	A Report on Turam Electromagnetic Survey	Magnetics - Ground Geophysics		
060976	1971	A Geochemical Report on the KD, AC and a Portion of the MX Claims, Whitehorse Mining District, Yukon Territory	Soil - Geochemistry		
018994	1967	Report on Airborne Geophysical Survey Geochemical Survey and Geological Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics		
092062	1966	Geological Map of Faro area	Regional Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC000202	Magnetometer Survey Map - Taf, Tim and Jet Claims - Anvil Area		Property File Collection	Geophysical Map
ARMC000043	Colour Geology Map - Mt. Mye area		Property File Collection	Geoscience Map (Geological - Bedrock)
YEG2013_03	Peliminary observations on the geology of the Anvil Lake area (parts of NTS 105K/11 and 12), central Yukon	33-51.	Yukon Geological Survey	Annual Report Paper
MIR1971_72	Mineral Industry Report 1971 - 72	93-95.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report
MIR1977	Mineral Industry Report 1977	67.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report
MIR1978	Mineral Industry Report 1978	44.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report
YEG1981	Yukon Exploration and Geology 1981	155.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG2011_OV	Yukon Exploration and Geology Overview 2011	37-38.	Yukon Geological Survey	Annual Report
YEG2012_OV	Yukon Exploration and Geology Overview 2012	42-43.	Yukon Geological Survey	Annual Report
2000-7	Geological map of Mount Mye (105K/6 E), central Yukon (1:25000 scale)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
2000-3	Geological map of Mount Mye (105K/6 NE) and Barwell Lake (105K/11 SE), central Yukon (1:25000 scale)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
15	Bedrock geology compilation of the Anvil District (parts of NTS 105K/2,3,5,6,7 and 11), central Yukon		Yukon Geological Survey	Bulletin
ARMC017442	Mount Mye project geology report for Kangaroo Exploration Corporation		Property File Collection	Report
ARMC017448	Diamond drill records with notations - Claims KD 1, KD 24, KD 4, KD 12, HE 18, AM 5 - Hole Nos. K-72-4, K-72-5, K-72-6, KD-72-7, K-73-10, K-73-11 - Mt. Mye		Property File Collection	Drill Logs
ARMC017449	Diamond drill record with notations - Hole K-73-12 - Zan 40 claim - Mount Mye		Property File Collection	Drill Logs
ARMC015105	Report on interpretation of gravity surveys - North Anvil Range, Yukon Territory		Property File Collection	Report
ARMC015460	Synopsis of exploration results on the KD, AC, and a portion of the MX claims - Whitehorse Mining District - Yukon Territory		Property File Collection	Report
ARMC015463	Report on the 1968 exploration program on the AM 1-32 mineral claims of Altair Mining Corporation Ltd. in the Anvil district, Y.T.		Property File Collection	Report
ARMC017098	Geology map of E-5 area - North Anvil Range joint venture		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC015458	Aeromagnetic series - Sheet 105K/6 showing geology and claims		Property File Collection	Geophysical Map
ARMC015643	Geology map with notations - AC, DC, Jet, KD groups - Giant Yellowknife - Figure 4		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC017093	1981 progress report - North Anvil Range joint venture - Cyprus Anvil Mining Corporation		Property File Collection	Report
ARMC017094	North Anvil Range proposed 1978 exploration program for Cyprus Anvil Mining Corporation and Metallgesellschaft Canada Limited		Property File Collection	Report
ARMC015476	Progress report 1978 - North Anvil Range joint venture		Property File Collection	Report
ARMC017095	Geology - AC, CD, JET, KD groups with notations - Giant Yellowknife - Anvil District Yukon - Fig. 4		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC015464	Gravity survey - AM mineral claims - Vangorda area, Y.T.		Property File Collection	Report
ARMC016741	Geology map - 105K/6 - Mount Mye		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC015413	Gravity survey map - AM group - Number 219-21		Property File Collection	Geophysical Map
ARMC015465	Gravity survey map for Altair Exploration Ltd. - AM group		Property File Collection	Geophysical Map

ARMC015466	Claim map of AM group with notations		Property File Collection	Geoscience Map (General)
ARMC016850	Claim Surveys map showing heavy mineral samples - SOS35 - E-5 - 105K/6		Property File Collection	Geochemical Map
ARMC016389	Charts: Representative cross section through KD deposit; Schematic cross section through deformed idealized KD deposit; Schematic cross section through restored idealized KD deposit		Property File Collection	Geoscience Map (General)
ARMC015645	Final report on the 1967 exploration work carried out on the AM 1 to 32 group of mineral claims in the Whitehorse mining district held by Altair Mining Corporation Ltd.		Property File Collection	Report
ARMC015412	Crone E.M. survey map - AM group - Number 219-20		Property File Collection	Geophysical Map
ARMC018781	Field map - KD, Mag Mtn.		Property File Collection	Geoscience Map (General)
ARMC018792	Field map - Mount Mye - 105K/6		Property File Collection	Geoscience Map (General)
ARMC018795	Field map showing sample stations - 105K/6		Property File Collection	Geoscience Map (General)
ARMC018796	Field map showing sample stations - 105K/6		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC015725	Diamond drill core, lithologic and structural log - 78-NA-03 - AM #2 - North Anvil Range - AM group		Property File Collection	Drill Logs