



Occurrence Details

Occurrence Number: 105F 028

Occurrence Name: Haydn

Occurrence Type: Hard-rock

Status: Prospect

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General Information

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

Aliases: Anise, Gull Mineral

Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn

Location(s): 61°37'40" N - -132°44'30" W

NTS Mapsheet(s): 105F10

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Haydn cl (72700) in Sep/56 by E.M. Neil, probably for Conwest. Unconfirmed reports indicate drilling here in 1956 or 1957. Canol Mines Ltd staked this target in 1968 as part of its large property surrounding the Groundhog showing (Minfile Occurrence # 105F 029)

Restaked as Anise cl 1-64 (YA274) in Jul/76 by a joint venture between Cyprus Anvil Mining Corporation Ltd and Hudson's Bay Oil & Gas Ltd, which performed mapping and geochemical surveys in 1976-78, a Turam survey, bulldozer trenching, and drilled 3 holes (515 m) in 1977.

Restaked as part of a block of 730 Ram cl (YA71576) in Sep/84 by Regional Resources Ltd, which performed an extensive program of mapping, geochemical and geophysical surveys in 1985 and transferred its interest to Fairfield Minerals Ltd in 1986. Fairfield formed a joint venture with Equity Silver Mines Ltd in spring, 1987, and performed mapping, geochemical and geophysical surveys in that year and drilled 15 holes (1 699.56 m), in 1988. Pacific Comox Resources Ltd acquired a 100% working interest in the Ram claims in Jan/93. Fairfield retained a 1% net smelter return interest in the Ram claims.

Around 2000, Pacific Comox divested itself of the Ram claims and the claims reverted to Fairfield (exact process unknown, but probably related to net smelter return interest). In May 2000, Fairfield optioned the claims to Ross River Gold Ltd (a private company). The following month, Ross River optioned the claims as part of a larger claim group, that included the adjoining Tay-LP claims, to Newmont Exploration of Canada Ltd. Between May and Aug/2000 Newmont carried out airborne electromagnetic and magnetic surveys, geological mapping, prospecting, soil sampling and auger soil sampling over the claim block. Newmont continued exploring the property in 2001 but little work was carried out on the Ram claims. In Dec/2001 Newmont dropped the option and returned all the claims to Ross River.

In Feb/2002, Fairfield merged with Almaden Resources Ltd to form a new company, Almaden Minerals Ltd. In May/2002 Ross River Gold Ltd, re-organized and under went a reverse take over with Panamex Resources Inc to emerge as Ross River Minerals Ltd. Later in the year, the company contracted S.J.V. Consultants to reinterpret the 1991 Dighem and 2000 Furgo airborne geophysical surveys using 3-D magnetic inversion software. The company hoped to better target existing anomalies and outline new anomalies. Ross River followed-up the reinterpretation with 11 diamond drill holes (914 m), of which 4 holes (568 m) tested various targets associated with this occurrence.

In 2003 the company continued exploring their claims with prospecting, geological mapping, stream sediment sampling and water analysis. The majority of work was centered over the south end of the property i.e. the area located south of Minfile Occurrence #105G 121. Also in 2003, J. Bond and K. Kennedy of the Yukon Geological Survey studied the surficial geology and ice-flow patterns in the Seagull Creek area.

In 2004 Ross River carried out ground VLF and magnetic geophysical surveys and drilled 9 additional diamond drills holes (1 001.6 m) at the south end of the property. None of the holes were associated with this occurrence.

Capsule Geology

The occurrence is located southwest of the Tintina Fault in the Ketza-Seagull district of the Cassiar Terrane (Platform). The Ketza-Seagull district is underlain by thick (400 m or greater) successions of miogeoclinal clastic, volcanic and carbonate rocks, ranging in age from Upper Proterozoic to Mississippian that were deformed during Mesozoic arc-continental collision, and by mid-Cretaceous intrusions. A series of thrust faults combined with crustal shortening associated with the Seagull Uplift has resulted in older rocks being thrust overtop younger rocks. The Seagull Uplift is thought to be related to uplift above one or more buried Cretaceous intrusions. The Seagull Creek area is known to host at least 19 occurrences consisting of veins, skarns, breccia pipes, disseminated pyrite gossans, stockworks and replacement mantos in volcanics, sediments and carbonates associated with Mississippian age syenite bodies.

The geology of this occurrence is sketchy. The area around the occurrence location is underlain by Upper Cambrian phyllite. Mineralized float was reportedly found in the 1950's in this vicinity. Fairfield Minerals' 1985 and 1987 assessment reports show a number of old trenches located in the vicinity of the occurrence, which Canol Mines Ltd referred to as the Gull Mineral zone. The zone is described as a series of trench mineral occurrences located in the floor of Seagull Valley over a distance of about 1 200 m, that is underlain by very poorly exposed Cambrian to Ordovician phyllite and Devonian to Mississippian volcanic and sedimentary rocks. Float boulders of massive and semi-massive arsenopyrite and pyrite are common. A minor galena-manganosiderite showing hosted by a carbonate horizon was discovered in trench #4, located on the east side of Seagull Creek, approximately 900 m northwest of the occurrence. The best sample from float returned 240 g/t silver and 0.41 g/t gold.

Soil sampling by Canol Mines located several erratic lead-silver anomalies and prospecting located large boulders of massive arsenopyrite-rich float throughout the Anise claims. The source of the float was never located. Fairfield Minerals never found evidence of drilling in the vicinity of the occurrence. It is most likely any drilling undertaken by Canol Mines was located further south on one of the other main showings.

Regional Resources spent 1985 prospecting, soil sampling and re-mapping all of the known mineral showings. Soil sampling outlined small lead-zinc-silver anomalies over the Gull and Lynx mineral zones and larger ones at the Raven, Vole, Trout and Mouse showings. The Lynx mineral zone and the Raven, Vole, Trout and Mouse showings are all located from 2 to 4 km southwest of this occurrence, on the west side of Seagull Creek. All six areas are underlain by Cambrian to Devonian metasediments and carbonate rocks.

In 1987, Fairfield Minerals enlarged the soil grids overlying the Vole, Trout and Mouse showings in hope of better defining possible drill targets. The company also changed their focus towards locating veins, stockworks and replacement bodies that carried anomalous gold values. Prospecting around the Trout showing (located approximately 4 km southwest of the occurrence), located a quartz vein containing massive pyrrhotite-pyrite-arsenopyrite. A 3 m chip sample returned an averaged of 0.6% lead, 1.4% zinc, 155 g/t silver and 5.3% arsenic. Prospecting also discovered numerous quartz boulders containing 30 to 75% pyrite and 3 to 20% arsenopyrite that returned from 0.07 to 12.4 g/t gold and up to 433.7 g/t silver. Four 1988 drill holes which tested the showing and associated geophysical anomalies, intersected pyrrhotite-pyrite-arsenopyrite mineralization of similar grade and style, over a strike length of 90 m

Diamond drilling on the Vole showing located 3.4 km southwest of the occurrence intersected 2 to 4 m widths of mineralization similar to that observed at the Trout showing. Four of five drill holes collared on the Mouse zone (located approximately 1.8 km south of this occurrence), intersected massive and disseminated magnetite skarn.

Following the completion of the 1988 drilling program the Ram claims remained dormant and most of the outlying claims were allowed to lapse. By the time Ross River Gold and subsequently Newmont Exploration assumed the option in 2000, the property was reduced to 69 claims centered over Seagull Creek.

Soil sampling by Newmont outlined a 800 by up to 200 m wide area near the Vole showing defined by frequent > 10 ppb gold results, situated within a larger area defined by > 250 ppm arsenic. Bismuth, silver, lead and antimony values are also anomalous. The company also identified a 1 600 by 700 m wide gold-bismuth anomaly called the Wolf anomaly located on the

east side of Seagull Creek near Minfile Occurrence #105F 023. This anomaly returned values up to 250 ppb gold and 53.9 ppm bismuth. Two samples collected by power auger from this anomaly returned 155 and 435 ppm gold. The latter sample was collected from the north side of the anomaly while the former was collected from the south side. The airborne geophysical reinterpretation outlined several broad trends. One trend is thought to represent a series of depth limited sources, most likely skarn deposits. A second trend is thought to represent buried intrusives. Still another trend is thought to represent the trend of the Seagull Fault. The contractor strongly suggested that all identified targets be verified on the ground before drilling was attempted. Of the four drill holes collared in the vicinity of this occurrence only one hole, (hole 9) intersected anomalous mineralization. The hole which tested a EM conductor, intersected 20.55 m of minor quartz veining containing pyrite-marcasite +/- arsenopyrite mineralization. A 0.3 m intersection within this zone assayed 0.97 g/t gold. The other three holes did not return any significant assays. Limited prospecting and geochemical sampling carried out in 2003 in the vicinity of this occurrence returned a few anomalous results, none of which identified new targets. Field work by Kennedy and Bond (2004) determined that glacial flow in the Seagull Creek area was to the north, up-valley, in the opposite direction to what had previously been believed. These results have a significant bearing on the interpretation of soil geochemical anomalies and the potential of known mineralized occurrences in the area. Ross River hopes to use this data to improve their search results. All of the 2004 drill holes and geophysical surveys were carried out in the southern half of the property (i.e. Tay-LP claims).

References

ALMADEN MINERALS LTD, Apr/2003. Web Site: www.almadenminerals.com/

CANADIAN MINES HANDBOOK 2000-01. p.150. (Indicates return of Ram claims to Fairfield Minerals Ltd).

CYPRUS ANVIL MINING CORP., Jan/77. Assessment Reports #090175 by P. Dean.

CYPRUS ANVIL MINING CORP., Jun/77. Assessment Reports #090200 by P. Dean.

FAIRFIELD MINERALS LTD, Sept/87. Assessment Report #092096 by J.J. Hylands.

FAIRFIELD MINERALS LTD, Jan/89. Assessment Report #092611 by J.J. Hylands.

GEORGE CROSS NEWSLETTER, 18 Jan/93.

KENNEDY, K.E. AND BOND, J.D., 2004. Evidence for a late-McConnell readvance of the Cassiar Lobe in Seagull Creek, Pelly Mountains, central Yukon. In: Yukon exploration and Geology 2003, D.S. Emond and L.L. Lewis (eds.), Yukon Geological Survey.

MINERAL INDUSTRY REPORT, 1976, p. 197-198; 1977, p. 83.

NEWMONT EXPLORATION OF CANADA LTD, Jan/2001. Assessment Report #094189 by A.T. Montgomery and M.A. Stammers.

PANAMEX RESOURCES INC, Jul/2001. Preliminary Exchange Offering Prospectus. (Outlines reverse take over and re-organization of Ross River Gold Ltd).

REGIONAL RESOURCES LTD, Jan/86. Assessment Report #091768 by M.A. Stammers.

ROSS RIVER MINERALS LTD, Jun/2003. Assessment Report #094416 by R.S Tolbert.

ROSS RIVER MINERALS LTD, Mar/2004. Assessment Report #094445 by R.S. Tolbert.

ROSS RIVER MINERALS LTD, Apr/2003; Jun/2005. Web Site: www.rossriverminerals.com/

ROSS RIVER MINERALS LTD, Press Release: 14 Apr/2002.

YUKON EXPLORATION 1987, p. 154; 1988, p. 75.

YUKON EXPLORATION & GEOLOGY 2001, p. 9-10; 2002, p. 9-10, 25, 26; 2003, p. 13, 26; 2004, p. 12-13, 32, 33.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 175.

Work History		
Date	Work Type	Comment
12/31/2004	Other	Only minor prospecting carried out near this occurrence.
12/31/2003	Geochemistry	
12/31/2003	Geochemistry	
12/31/2003	Other	
12/31/2002	Drilling	Four holes, 568 m. Part of larger drill program carried out on property.
12/31/2000	Geochemistry	
12/31/2000	Geology	
12/31/2000	Geochemistry	
12/31/2000	Airborne Geophysics	Also magnetic survey.
12/31/1988	Drilling	Fifteen holes, 1,699.56 m. Collared to south on Trout, Vole and Mouse zones.
12/31/1988	Geology	
12/31/1988	Geochemistry	

12/31/1987	Geochemistry	
12/31/1985	Geology	
12/31/1985	Geochemistry	
12/31/1978	Geology	
12/31/1978	Geochemistry	
12/31/1977	Drilling	Three holes, 515 m.
12/31/1977	Geology	
12/31/1977	Geochemistry	
12/31/1977	Ground Geophysics	Turam survey.
12/31/1977	Trenching	
12/31/1976	Geology	
12/31/1976	Geochemistry	
12/31/1976	Other	
12/13/1987	Ground Geophysics	Also magnetic, VLF-EM, and HLEM surveys. Conducted as a test program.
12/13/1985	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095218	2010	2009 Diamond Drilling Program	Diamond - Drilling, Diamond - Drilling	10	1868
094416	2002	2002 Diamond Drilling Assessment Report On the Tay-LP Project	All Weather Road - Development, Surface, Reclamation - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry	11	910.92
094264	2001	2001 Diamond Drilling Assessment Report on the Tay-LP and Ram Claim Group	Diamond - Drilling, Bedrock Mapping - Geology	6	
094189	2000	2000 Geological, Geochemical & Geophysical Assessment Report on the Ram Project	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Auger - Drilling, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	10	
090200	1977	Geological, Geochemical and Geophysical Report, Anise Claim Group	Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
090175	1976	Geochemical Exploration Report, Anise Claim Group	Soil - Geochemistry		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC009273	Geology map - Fig. 4-3 - Pass Peak - Pelly project		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC009274	Claim map and proposed DDH site - Pelmac project - Anise claims		Property File Collection	Geoscience Map (General)
ARMC009275	Location map - Pelmac project - Anise claims		Property File Collection	Geoscience Map (General)
ARMC009276	Grid map - Pelmac project - Anise claims		Property File Collection	Geoscience Map (General)
ARMC009277	Turam electromagnetic survey - Pelmac project - Anise claims - Figure 11		Property File Collection	Geophysical Map
ARMC009278	Geochemical results map - 105F-10 - Seagull Valley detail area - Pelly project		Property File Collection	Geochemical Map
ARMC009279	Geochemical results map - 105F-10 - Seagull Valley detail area - Pelly project		Property File Collection	Geochemical Map
ARMC009280	Geology map - Anise claims - Figure 3		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014318	Regional geology - Pelly Mountains - Pelmac project - Field work completed from July - September 1980		Property File Collection	Report
ARMC014316	NTS sheet 105F - Quiet Lake with field notations		Property File Collection	Geoscience Map (General)
ARMC014433	1980 field report - Anise claim group - Field work done from August 16 to September17, 1980		Property File Collection	Report
ARMC014313	Pelly project summary report: 1978 - Watson Lake mining district, Yukon Territory - Field work done during the period: June 12 - August 30, 1978		Property File Collection	Report
ARMC014	Claims map drawn on NTS sheet 105F - Quiet Lake		Property File	Geoscience Map (General)

233	Claims map drawn on NTS sheet 1001 - Quiet Lake		Collection	Geological map (General)
ARMC020394	Field notes - Pelly Mountains - Anise, Howru, Vangorda, Eros claims		Property File Collection	Miscellaneous Company Documents
ARMC014430	Diamond drill core log and diamond drill record - Pelmac - Anise claim - 80-A-01		Property File Collection	Drill Logs
ARMC014431	Diamond drill core log and diamond drill record - Pelmac - Anise claim - 80-A-02		Property File Collection	Drill Logs
ARMC014432	Diamond drill core log and diamond drill record - Pelmac - Anise claim - 80-A-03		Property File Collection	Drill Logs

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
80-A-01	Haydn	1980	BQ	16	1
80-A-02	Haydn	1980	BQ	14	1
80-A-03	Haydn	1980	BQ	12	1