



Occurrence Details

Occurrence Number: 105B 078

Occurrence Name: Verley

Occurrence Type: Hard-rock

Status: Showing

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General Information

Secondary Commodities: copper, molybdenum, silver, thorium, tin, tungsten, uranium

Deposit Type(s): Porphyry W

Location(s): 60°10'1" N - 131°14'31" W

NTS Mapsheet(s): 105B03

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

These showings were staked several times as part of the adjoining Bom-Munson property but were not discovered until Jul/77, when they were staked as STQ cl 1-32 (YA21708) by the Minex -1977 Limited Partnership (Action Resources Ltd, W.M. Bath Investments Ltd). Minex conducted mapping and sampling later in the year. In Mar/78 Minex optioned the claims to Amax Potash Ltd and then transferred its residual rights in the property to Logtung Resources Ltd.

Amax carried out geological mapping, magnetic and I.P. geophysical surveys, soil sampling and drilled one diamond drill hole (247 m) later in the year. In June/78 Amax staked STQ cl 33-118 (YA33192) to the west and southwest. At the end of 1978 Amax dropped its option on STQ cl 1-32 but retained its ownership of STQ claims 33-118. These claims were later explored as part of the adjoining Munson occurrence (Minfile Occurrence #105B 029).

Restaked within Dart cl 1-100 (YB376) in Jun/87 by Apex Energy Corporation, which only gave the occurrence a cursary examination and concentrated its exploration efforts on the adjoining Munson occurrence.

Restaked as Mine cl 1-40 (YB16066) in Aug/89 by First Yukon Silver Resources Inc. A 25% interest in the claims was transferred to Grant Stewart in Jul/92. H. Hibbing and G. Stewart performed road construction on the claims in Aug/92.

In Apr/97, Birch Mountain Resources Ltd acquired an option to earn 100% interest in First Yukon Silver's Swift River property which included the Mine claims. Birch Mountain optioned the property for its silver-zinc potential and did not carry out any work on this occurrence. In Mar/99 Birch Mountain dropped its option and returned the claims to First Yukon Silver.

Capsule Geology

The area is located 19 km north of the Yukon-British Columbia border, northeast of Swift River, Yukon. The occurrence lies just south of the Late Permian Ram stock and less than 5 km northeast of the mid-Cretaceous Seagull Batholith. The occurrence is underlain by highly deformed, quartz-rich metaclastic rocks, marble, mafic and felsic metavolcanic rocks belonging to the Mississippian age Dorsey assemblage. The Dorsey assemblage is generally accepted to be part of the Yukon-Tanana terrane and is intruded by numerous small intermediate to felsic intrusions most of which yield Mississippian U-Pb dates.

The occurrence consists of two showings, (East and West) where mineralization occurs in breccias and veins in a greisen zone around two small unmapped, late-phase quartz monzonite stocks, believed to be outliers of the mid-Cretaceous Seagull batholith. The stocks intrude quartz-feldspar schist of the Dorsey assemblage near the margin of the Late Permian Ram stock. Gangue minerals such as arsenopyrite, pyrite and fluorite occur with chalcopyrite as coarse blebs and fine veinlets and disseminations. Both areas are mineralized with scheelite and molybdenite in a stockwork of quartz-tourmaline-mica veinlets. Cassiterite occurs with massive pyrite in small lenses in a breccia zone at the West showing, and in lesser quantities at the East showing. A specimen of greisen containing cassiterite and arsenopyrite assayed 31 ppm U and 2000 ppm Th.

The magnetic survey carried out by Amax failed to outline the boundaries of the two stocks. Soil sampling outlined numerous tin, tungsten, fluorine and base metal anomalies which led to the staking of STQ claims 33-118. The drill hole was collared on the West showing to test the depth potential of the tin-bearing mineralization. The hole intersected metasediments followed by quartz-monzonite and finally alaskite near the bottom of the hole. Mineralization was limited to arsenopyrite and the occasional scheelite and quartz molybdenite veins.

Apex Energy and First Yukon Silver appear to have staked their respective claims to protect access to neighboring silver-zinc occurrences. Neither company appears to have given the occurrence more than a cursary examination.

C. Roots and T. Liverton of the Yukon Geology Program visited the Western showing (occurrence A) in 2001 (T. Liverton, pers. comm., 2003). They exposed a 2 m diameter outcrop of alaskite in the bottom of a small cirque that contained quartz stockworks. The stock intrudes sediments that contain cassiterite and some scheelite. They also reported several small intrusions on the surrounding ridge crest that may host skarn mineralization.

References

AMAX POTASH LIMITED., Sep/78. Assessment Report #090353 by R.J. Roussain and C.J. Hodgson.

AMAX POTASH LIMITED., Jun/79. Assessment Report #090472 by C.J. Hodgson.

APEX ENERGY CORPORATION, Aug/88. Assessment Report #092521 by S. Coombes and F Marshall Smith.

DICK, L.A., 1980. A comparative study of the geology, mineralogy, and conditions of formation of contact metasomatic mineral deposits in the northeastern Canadian Cordillera. Unpublished PhD thesis, Queen's University, p. 194, 225, 391.

GEOLOGICAL SURVEY OF CANADA Paper 79-1A, p. 264-266, 397.

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HARMS T.A. AND STEVENS, R.A. 1995. Investigations in the Dorsey terrane, Part 2: lithologies and structure of (?) Paleozoic stratified rocks in the Stikine Ranges, northern British Columbia; in Current Research 1995-A; Geological Survey of Canada, p. 129-133.

LOGTUNG RESOURCES LTD, Apr/78. Prospectus Report #061721 by W. Meyer.

MORTENSEN, J.K. AND GABITES, J. E., 2002. Lead Isotopes constraints on the metallogeny of southern Wolf Lake, southeastern Teslin and Northern Jennings river map areas, Yukon and British Columbia: Preliminary results. In: Yukon Exploration and Geology 2001, D. S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon

Region, Indian and Northern Affairs Canada, p. 179-188.

ROOTS, C.F. ET AL., 2000. Revision mapping of the Yukon Tanana and equivalent terranes in northern British Columbia and southern Yukon Territory between 1310 and 1320 W; Geological Survey of Canada, Current Research 2000-A4, 10p.

STEVENS, R.A. AND HARMS, T.A., Investigations in the Dorsey terrane, Part 1: stratigraphy, structure, and metamorphism in the Dorsey Range, southern Yukon Territory and northern British Columbia, in Current Research 1995-A; Geological Survey of Canada, p. 117-127.

YUKON GEOLOGY AND EXPLORATION 1979-80., p. 145-146.

Work History

Date	Work Type	Comment
12/31/2001	Geology	Roots and Liverton visited the western showing as part of regional mapping project.
12/31/1998	Other	Area surrounding occurrence explored for silver-zinc mineralization, no work carried out on actual occurrence.
12/31/1997	Other	Area surrounding occurrence explored for silver-zinc mineralization, no work carried out on actual occurrence.
12/31/1992	Development, Surface	
12/31/1987	Other	Occurrence given cursary examination by Apex Energy Corporation.
12/31/1978	Drilling	One hole, 256 m.
12/31/1978	Geology	
12/31/1978	Ground Geophysics	Also magnetic survey.
12/31/1977	Geology	
12/31/1977	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096722	2014	STAKING, SOIL SAMPLING, PROSPECTING AND AIRBORNE GEOPHYSICS REPORT – SEAGULL TIN PROJECT	Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry		
094828	2007	Assessment Report 2006 Describing Air-FTG Survey Geophysical Work on the Swift Project	Reverse Circulation - Airborne Geophysics		
090353	1978	STQ Option (Magnetometer Survey)	Magnetics - Ground Geophysics		
061721	1978	Report on STQ Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
060881	1971	Geology and Geochemistry H Claim Group	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology		