



Occurrence Details

Occurrence Number: 105B 029

Occurrence Name: Munson No. 3 Zone

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 9:43:01 PM

General Information

Secondary Commodities: lead, silver, tungsten, zinc

Aliases: Tbmb, Munson

Deposit Type(s): Skarn Pb-Zn

Location(s): 60°8'47" N - -131°15'17" W

NTS Mapsheet(s): 105B03

Location Comments: Location from satellite imagery

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked within a large group of Bom claims (56221) in Aug/46 by Hudson Bay Mining & Smelting Company Ltd. The company reportly, drilled 9 holes (935.7 m) in 1947 but no records have been found.

Restaked in Sep/58 as Stan cl (73718) by A. Riba who immediately optioned the claims to J. Bradcoe and H. Karels. Restaked as Sandy cl (Y13117) in Jun/66 by G. Kazakoff; and as Glen cl (Y17832) in Jul/67 by T.R. Cairns.

Restaked as Dan cl 1-272 (Y27673) in Jul/68 by Boswell River Mines Ltd, which drilled 1328.3 m later in the year and added the Red cl (Y55345) in May/71.

The Minex 1977 Limited Partnership (Action Resources Ltd, W.M. Bath Investments Ltd) staked STQ cl 1-32 (YA21708) to the north in Aug/77. In 1978 the claims were optioned to Amax Potash Ltd and Minex's residual rights were sold to Logtung Resources Ltd. Amax carried out geological mapping and geochemical sampling the results of which led the company to stake STQ cl 33-118 (YA33192) in Jun/78. The occurrence was restaked within these new claims. Amax noted the occurrence on its maps but it appears they only carried out a cursory examination of the mineralization before dropping its option in 1979. Logtung changed its name in 1982 to Regional Resources Ltd and W.M. Bath Investments changed its to Petromin Resources Corporation.

The early occurrence was restaked in Aug/84 as Mas cl 1-1VX (YA71513) by A. Sahacic. Both occurrences were restaked as TBMB cl 1-6 (YA91276) and TBMB cl 13-15 (YA91282) in Aug/86 by T. McCrory and associates and who optioned the claims to Apex Energy Corporation, in the spring of 1987. The company trenched and sampled in the summer and fall of 1987 before dropping the option.

First Yukon Silver Resources Inc. surrounded the TBMB cl with Strata cl 1-42 (YB15596) in Jan/89, Bound cl 1-36 (YB15809) in Aug/89 and Leeron cl 1-48 (YB16360), in Sep/89 and Tara cl 1-48 (YB33312) and Amber cl 1-70 (YB33360) to the northwest in Aug/90. First Yukon Silver carried out trenching programs in 1989, 1990 and 1991. A 50% interest in the Bound cl was transferred to P. Kostiuk in Aug/91.

G. Stewart staked At cl 1-48 onto the south end of the Strata claims in Nov/90 and Scarn 1-16 (YB35222) in Jan/92.

H. Hibbing acquired a 100% interest in the TBMB claims in Apr/92 and performed road work on the Amber 22, 24, 26, 28 and 30 cl in in the summer of 1992 and trenched on TBMB 3 claim in Jul/93 and on the TBMB 2 and other neighboring claims in Aug/93.

G. Stewart built roads on the At claims in Aug/93 and added on Scarn cl 17-28 (YB46277) in Sep/93.

In Sep/97 S. Secerbegovic staked Bond cl 1-36 (YB89935) overtop of the expired Bound claims. Hibbing and Secerbegovic formed a partnership and carried out detailed geological mapping on the Tanis, Bound and Bond claims in 1997, 1998 and 2000

Capsule Geology

The area is located 18 km north of the Yukon-British Columbia border, northeast of Swift River, Yukon. The occurrence lies about 1.5 km south of the Late Permian Ram stock and less than 3 km northeast of the mid-Cretaceous Seagull Batholith. Detailed mapping by T. Liverton employed by Hibbing and Secerbegovic shows that the area is underlain by Lower, Intermediate and Upper siliclastic units separated by metavolcanic and marble units. The marble unit and metavolcanic units can be traced intermittently across the length of the TBMB, Bound/Bond and Mod claims. The siliclastic rocks likely belong to the Swift River Succession, (pre-late Mississippian) and the metavolcanic unit likely belongs to the overlying Klinkit Succession. The origin of the marble unit is presently uncertain. All three units are believed to be part of the Yukon Tanana terrane.

The occurrence consists of two massive sulphide showings, 500 m apart that are hosted in garnet-diopside skarn at the contact between marble and overlying banded siliceous hornfels, (probably a meta-tuff). The west showing consists of a 2 m wide layer of massive sphalerite and pyrrhotite, and minor galena and arsenopyrite, adjacent to a rib of massive, coarse grained garnet-diopside-actinolite skarn containing traces of scheelite and powellite. Drilling in 1968 tested the No. 2 Zone over a length of 230 m and intersected minor mineralization.

The east showing consists of massive pyrrhotite, pyrite, galena, sphalerite and chalcopyrite exposed in a bulldozer trench at the contact between marble and overlying meta-tuff. The massive sulphide layer is approximately 0.6 m thick.

Amax Potash appears to be the first company to stratigraphically relate this occurrence to the neighboring Mod occurrence (Minfile Occurrence #105B 031) located 1.5 km to the east. Unfortunately most of the early exploration data for this area appears to have been lost. Prospecting and trenching by Apex Energy exposed 4 separate zones. The company appears to have focused most of their attention on the west showing (No. 2 showing on Apex's maps) which appears to have received the most attention in the past. The best grab sample consisting of massive galena situated in a clay alteration zone returned 4 114 g/t Ag. Channel samples collected from blast trenches located in the west zone returned up to 995 g/t Ag over 0.8 m. The other three zones returned substantially lower assay values.

The detailed mapping by Liverton outlined the deformation history of the area and the limits of the marble and metavolcanic units. Liverton believes that the mineralization present at the Munson (TRMB) and Mod occurrence, (Minfile Occurrence #105B 031) is similar to that seen to the north at the Dan occurrence (Bar occurrence, Minfile Occurrence #105B 027) and all the mineralization is hosted by the same stratigraphic unit, meaning the Ram Creek assemblage extends further south than shown on current geological maps. Roots (NATMAP) believes that the mineralization is similar but the mineralization present at the Munson occurrence occurs at least 1 km higher in the structural succession. Liverton also suggests the mineralization is volcanogenic massive sulphide while Roots feels that evidence proving either epigenetic skarn or skarnified syngenetic (possibly volcanic-associated) mineralization is unclear.

References

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.

D&L-REY Silva, L.J.H., LIVERTON, T., ROOTS, C., PARADIS, S., 2001. A structural analysis of the upper Swift River area, southeastern Yukon (105B/3), Part II: The TRMB claims and implications for the regional geology. In: Yukon Exploration and Geology 2000, D.S.Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 301-310.

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 Ph.D. thesis, Queen's University, p. 8, 194, 205, 217-219, 381.

FIRST YUKON SILVER RESOURCES LTD., Feb/98. Assessment Report #093758 by T. Liverton.

FIRST YUKON SILVER RESOURCES LTD., Mar/99. Assessment Report #093954 by T. Liverton.

FIRST YUKON SILVER RESOURCES LTD., Feb/2001. Assessment Report #094196 by T. Liverton and Luiz J.H. D'el-Rey Silva.

GEORGE CROSS NEWSLETTER, 16 Jun/87, 20 Jul/87.

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.

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.

NELSON, J.L., ROOTS, C. HARMS, T., 2001. Ram Creek and Dorsey assemblages, Swift River succession, Screw Creek limestone, Klinkit and Teh successions. In: Unpublished 2001 NATMAP Field Trip Guidebook, 74 p.

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 EXPLORATION AND GEOLOGY 1981, p. 98; 1982, p. 96; 1997, p. 20, 37-38; 1998, p. 20.

YUKON EXPLORATION 1984, p. 59; 1990, p. 59.

Work History		
Date	Work Type	Comment
4/1/2019	Geochemistry	
4/1/2019	Geochemistry	
4/1/2001	Geology	
4/1/1993	Geochemistry	
4/1/1993	Other	
4/1/1993	Geochemistry	
4/1/1993	Geochemistry	
4/1/1993	Geology	
12/31/2000	Geology	Detailed geological mapping.
12/31/1998	Geology	Detailed geological mapping.
12/31/1997	Geology	Detailed geological mapping.
12/31/1993	Trenching	
12/31/1992	Trenching	Carried out on various claims held by First Yukon Silver.
12/31/1992	Development, Surface	
12/31/1991	Trenching	
12/31/1990	Trenching	
12/31/1989	Trenching	
12/31/1987	Trenching	
12/31/1978	Geology	
12/31/1978	Geochemistry	On STQ property.
12/31/1978	Ground Geophysics	Also IP survey. On STQ property.
12/31/1968	Drilling	Eleven holes (?), 1,117 m. Best guess. Also drilled at least 7 Winkie drill holes (86.9 m).
12/31/1947	Drilling	Nine holes, 935.7 m.
12/13/1970	Ground Geophysics	Based on Related References file.

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		
094196	2001	Structural Analysis of the TBMB-Bound Trend of Stratiform Mineralization Swift River	Detailed Bedrock Mapping - Geology		
094117	2000	Preliminary Structural Analysis of Mineralized Units in the Siwft River Region	Detailed Bedrock Mapping - Geology		
093954	1998	Detailed Geological Mapping on the Bond and TBMB Claims	Detailed Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007640	Claim map with 1993 grid and drill hole locations - Swift River option		Property File Collection	Geoscience Map (General)
ARMC013375	Magnetometer survey map - Dan No. 1-10 group - Boswell River Mines - Swift River, Y.T.		Property File Collection	Geophysical Map
ARMC013392	Work program map - Dan group - 105-B-3 - Aug 1968 to July 1969 - Fig. 2		Property File Collection	Geoscience Map (General)
ARMC013394	Plan map showing claim location - Dan No. 1 to 10 - Dangroup - Swift River area, Y.T.		Property File Collection	Geoscience Map (General)
ARMC013377	Plan map showing claim location Dan 1 to 10 - Dan group - Swift River area, Y.T.		Property File Collection	Geoscience Map (General)
ARMC013376	Plan map showing mineralized trend zones - Magnetometer survey - Dan 1-10 group		Property File Collection	Geophysical Map
ARMC013369	Plan showing claim location map Max 1 to 50, Sam 1 to 21 - Max & Sam groups - Boswell River Mines Ltd. - Swift River area, Y.T.		Property File Collection	Geoscience Map (General)
ARMC013368	Plan showing mineralized magnetic trend zones as indicated by magnetometer survey - Dan & Max claim group - Boswell River Mines Ltd. - Swift River area, Y.T.		Property File Collection	Geophysical Map
ARMC013388	Report on airborne geophysical survey - Dan group - Survey flown March 27, 1968		Property File Collection	Geophysical Map
ARMC013384	Preliminary report on the Swift River property of Boswell River Mines Ltd. in Yukon Territory		Property File Collection	Report
ARMC013395	Orientation map BD-GO 1-68 - Boswell River Mines		Property File Collection	Geoscience Map (General)
ARMC013381	Table and sketch map showing drill hole locations - Section 200W - Dan group		Property File Collection	Geoscience Map (General)
ARMC013383	Report on the exploration work in 1971 on the Swift River property of Boswell River Mines Ltd.		Property File Collection	Report
ARMC013396	Report to shareholders - Results of trenching Swift River area - Dan 1 - 10 Mineral Claims near mile 722 Alaska Highway		Property File Collection	Miscellaneous Company Documents
ARMC013363	Prospectus - Boswell River Mines Ltd. - August 1967		Property File Collection	Report
ARMC013360	Hand-drawn geochemical values map - Boswell Pine - Dan group		Property File Collection	Geochemical Map
ARMC013397	Notes on Bowell River Mines Ltd.		Property File Collection	Miscellaneous Company Documents
ARMC013382	Sketch map showing geology, structure, and drill holes		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC013372	Isomagnetic contours map - Burnt Hill area - Boswell River Mines Ltd. - Swift River area, Y.T.		Property File Collection	Geophysical Map
ARMC013374	Isomagnetic contours map - Dan 1-10 claim group - Boswell River Mines plan		Property File Collection	Geophysical Map
ARMC013391	Isomagnetic contours map - Dan 1-10 claim group - Expanded Boswell River Mines plan -		Property File Collection	Geophysical Map
ARMC013379	Map section - 1-80W - Tr No. 2 - Dan 6		Property File Collection	Geoscience Map (General)
ARMC013380	Magnetometer survey profiles - Dan claim group		Property File Collection	Geophysical Map
ARMC013385	Letters re: Property examination report of Dan group		Property File Collection	Miscellaneous Company Documents
ARMC013373	Location plan map - Burnt Hill area - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T. - Fig. 4		Property File Collection	Geoscience Map (General)
ARMC013367	Location plan map - Central Valley - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T. - Fig. 6		Property File Collection	Geoscience Map (General)
ARMC013371	Location plan map - Crescent Lake E 1/2 - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T. - Fig. 2		Property File Collection	Geoscience Map (General)
ARMC013364	Location plan map - Dan 1 to 10 - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T.		Property File Collection	Geoscience Map (General)

ARMC013365	Location plan map - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T. - Crescent Lake W 1/2 - Fig. 3		Property File Collection	Geoscience Map (General)
ARMC013370	Location plan map - Drumlin Valley area - Dan group - Boswell River Mines Ltd. - Swift River area, Y.T.		Property File Collection	Geoscience Map (General)
ARMC013362	Correspondence and inspection report - Boswell River Mines' Swift River property		Property File Collection	Report
ARMC013378	Magnetic profile map - Crescent Lake area		Property File Collection	Geophysical Map
ARMC013366	Magnetic profiles map - Burnt Hill area - Boswell River Mines Ltd. - Swift River Area, Y.T.		Property File Collection	Geophysical Map
ARMC013356	Assay certificate and geochemical analytical work sheets - Dan group		Property File Collection	Miscellaneous Company Documents
ARMC013341	Correspondence re: Report on property examination - Dan group, Swift River, Yukon		Property File Collection	Miscellaneous Company Documents
ARMC013355	Correspondence, maps, assays, diamond drill logs - Boswell Pine project		Property File Collection	Miscellaneous Company Documents
ARMC013361	Dan group report - Watson Lake M.D., Y.T. - Boswell River Mines Ltd.		Property File Collection	Report
ARMC013398	DDH location map showing structure and geology - Dan group		Property File Collection	Geoscience Map (General)
ARMC013357	Field notes - Dan group 105-B-3		Property File Collection	Miscellaneous Company Documents
ARMC013358	Field sheet - Dan group		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC013359	Field sheet - Dan group		Property File Collection	Geoscience Map (Geological - Bedrock)
93-071	Report on the TBMB Property		Yukon Government: Energy, Mines and Resources	YMEP Report