



Occurrence Details

Occurrence Number: 105J 013
Occurrence Name: Clyde
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/15/2025 1:05:51 PM

General Information

Secondary Commodities: copper, lead, tungsten, zinc
Aliases: Itsi
Deposit Type(s): Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)
Location(s): 62°43'28" N - -130°15'8" W
NTS Mapsheet(s): 105J09
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Joy cl 1-60 (Y27976) in Sep/67 by Spartan Exploration Ltd, which carried out grid soil sampling, geological mapping, prospecting and magnetometer surveying in 1968. In Aug-Oct/75, 120 Itsi, Pre, Vost and River claims (Y84427) were staked immediately north and east of the Joy group by Abacorn Syndicate (Cream Silver Mines Ltd, Belmoral Mines Ltd, Grandora Exploration Ltd, Abacorn Mining Ltd, Pan Acheron Resources Ltd and Minas de Cerro Dorado Ltd), which carried out geological mapping, prospecting and geochemical sampling (for zinc) in 1975 and rock sampling in 1975-76, before transferring the claims to Trident Resources Ltd. The Itsi property was optioned briefly in 1977 by Rio Tinto Canadian Exploration Ltd, which reanalysed the soil samples for Ag, Cu, Co, Mo, Ni and Pb and carried out geological mapping and hand trenching later in the year. Restaked in Sep/93 as the Bure cl 1-4 (YB46321) by NDU Resources Ltd. NDU staked Bure cl 5-60 (YB91203) in Dec/97 before merging with United Keno Hill Mines Ltd in the spring of 1998. Expatriate Resources Ltd optioned the claims and carried out hand trenching, grid soil sampling and silt sampling later in the year. Expatriate purchased a 100% interest in the property from United Keno Hill in Oct/98.

Capsule Geology

Spartan located a pyrrhotite-rich boulder containing scheelite, chalcopyrite and sphalerite, which assayed 3% WO₃. The boulder was found at the west end of an east-trending syncline. Bedrock in the area consists of chert, shale and dolomite of the Lower to Middle Devonian Portrait Lake Formation which is cut by occasional porphyry dykes. Although the source was not found, weak zinc and molybdenum soil anomalies were outlined near the dykes. Abacorn located five zones containing secondary zinc and lead minerals and obtained assays of up to 2% Zn. Rio Tinto's mapping showed that the mineralization and geochemical anomalies are underlain by a typical sequence of Road River Formation mudstone and minor bedded barite. Chip sampling of broken, weathered bedrock in trenches gave assays of up to 10.0% Zn and 1.6% Pb across 3 m and 3.3% Zn and 6.7% Pb, but grades decreased as the trenches were deepened. Petrographic study and assaying showed that no sulphides were present and all mineralization had been transported hydromorphically. Expatriate's sampling covered known anomalies in the area and returned generally coincident values for Zn (up to 3 010 ppm), Ni (up to 367 ppm), Ag (up to 10.6 ppm), Cu (up to 462 ppm), Pb (up to 6 700 ppm) and Cd (up to 67.5 ppm). Trenching exposed weathered bedrock, but no determination of the style of mineralization present could be made. Peak values of 3.31% Zn, 4 790 ppm Pb and 116.5 ppm Cd were obtained from a 4.0 m chip sample.

References

ABACORN SYNDICATE, Sep/76. Assessment Report #090163 by F. Holcapek.

EXPATRIATE RESOURCES LTD, Apr/99. Assessment Report #093964 by R.C. Carne.

GEOLOGICAL SURVEY OF CANADA Paper 1969-70, p. 128; 1976, p. 214-215; 1977, p. 94.

RIO TINTO CANADIAN EXPLORATION LTD, Jun/77. Assessment Report #090199 by A. Troup.

RIO TINTO CANADIAN EXPLORATION LTD, Dec/77. Assessment Report #090259 by J.L. Hardy and H.W. Marsh.

SPARTAN EXPLORATION LTD, Sep/69. Assessment Reports #018944 by G. Woodsworth.

SPARTAN EXPLORATION LTD, Sep/69. Assessment Reports #018945 by G. Woodsworth.

SPARTAN EXPLORATION LTD, Sep/69. Assessment Reports #018946 by G. Woodsworth.

Work History

Date	Work Type	Comment
12/31/1998	Geochemistry	Also silt sampling.
12/31/1998	Trenching	
12/31/1977	Geology	
12/31/1977	Geochemistry	Re analysed previous soil samples for other metals.

12/31/1977	Trenching	
12/31/1976	Geochemistry	
12/31/1975	Geology	
12/31/1975	Other	
12/13/1968	Geology	
12/13/1968	Geochemistry	
12/13/1968	Ground Geophysics	
12/13/1968	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093964	1998	Report on Soil Geochemistry and Hand Trenching on the Bure Property	Soil - Geochemistry, Hand - Trenching		
090259	1977	Itsi Option Itsi Range, Yukon Geology and Geochemistry	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Hand - Trenching		
019035	1968	1968 Progress Report and Proposed Program 1969 Itsi Project	Silt - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
018946	1968	Geological Report on Joy Mineral Claims Itsi Lake Area	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
018944	1968	Geophysical Report on Joy Mineral Claims Itsi Lake Area	Magnetics - Ground Geophysics		
018945	1968	Geological Report on Joy Mineral Claims Itsi Lake Area	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016681	Geochemical results map - 105J/9 - Prevost River		Property File Collection	Geochemical Map
ARMC016680	Geochemical sample stations map - 105J/9 - Prevost River		Property File Collection	Geochemical Map
ARMC016683	Geochem samples map - 105J/9 - Prevost River		Property File Collection	Geochemical Map
ARMC016682	Geochem samples map - 105J/9 - Prevost River - With notes on Selwyn project		Property File Collection	Geochemical Map