



## Occurrence Details

**Occurrence Number:** 105F 055

**Occurrence Name:** Hoey

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 6/15/2025 12:47:31 PM

## General Information

**Secondary Commodities:** gold, lead, silver, thallium, zinc

**Aliases:** F2 Zone, Galena

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

**Location(s):** 61°32'38" N - -132°10'43" W

**NTS Mapsheet(s):** 105F09

**Location Comments:** .5 Kilometres

**Hand Samples Available:** No

**Last Reviewed:**

### Capsule

#### Work History

This occurrence is the site of the initial discovery in the district and was reportedly found by Hudson Bay Mining and Smelting Company prospectors in 1946. Originally staked as Star cl (57435) in Apr/48 by G. Fairclough.

Restaked as Galena cl 1-8 (68937) by F. Hoey and Prop cl 1-6 (68953) to the east by R. Seraphim in Jul/54. Cyprus Exploration Corporation Ltd optioned the claims and carried out geological mapping and hand trenching in 1955.

Early fringe claims include the Rat and Iron cl (69288) staked to the west and south by Prospectors Airways Company Ltd on behalf of a syndicate including Noranda Mining Ltd and Kerr Addison Gold Mines Ltd in Sep/54. These claims were tested with hand trenching and one packsack drill hole (11m) in 1955. Conwest Exploration Company Ltd staked Track claims (73599) to the east in Jul/58.

Restaked as Rusty cl (73131) in Aug/57 by G. Fairclough, who added Vic claims (73765) in Sep/58. Fairclough optioned the claims to Ketzakey Silver Mines Ltd in 1959, which built a tote road to the property and reportedly shipped 11.79 tonnes of silver-lead ore to Trail, B.C. between 1960 to 1961. The property was subsequently optioned to Silver Key Mines Ltd in Sep/63, which carried out bulldozer trenching and drilled 9 holes (407 m) from 1964-66. In 1968 Silver Key, in a joint venture with Stump Mines Ltd, carried out geochemical sampling and drove a 58 m adit. Silver Key changed its name to Nordev Resources Ltd in Feb/72; optioned the Stump interest in Aug/74; conducted a small feasibility study in 1975; and then abandoned its interests in the area.

Restaked as Dub cl 1-8 and Gem cl 1-6 (Y94465) in Mar/76 by H. Regehr and associates, who transferred the claims to a new company, Iona Silver Mines Ltd, later in the year. Iona carried out bulldozer trenching in 1976 and 1977 and drilled 4 holes (268.8m) on Gem cl 4 and 3 holes (190.5m) on Dub cl 3 claims in 1978. In 1980, the adit was advanced 42.4 m. Iona optioned its claims to Canamax Resources Inc in 1985 and changed its name to Aigner Holdings Ltd in 1987. Canamax added Saddle cl 1-6 (YA73647) to the southwest in Aug/85; drilled 8 holes (603.8 m) in 1986; carried out geological mapping, geochemical sampling, EM surveying, bulldozer trenching and drilled 13 holes (1 171 m) in 1987. Canamax returned the claims to Aigner Holdings in Dec/89.

Restaked as Star cl 1-8 (YB59270) by R. Berdahl in Mar/95. Berdahl staked D cl 1-2 (YB59266) to the north at the same time and staked Dad cl 1-13 (YB60965) and Dad cl 14-21 (YB62267) between the Star and D claims in July and Sep/95. During this period and in 1997 Berdahl prospected and sampled various known mineralized showings located on the claim block.

#### Capsule Geology

The Ketz River district is predominantly underlain by thick (400m or greater) successions of calcareous sedimentary rocks ranging in age from Lower Cambrian to Mississippian. The calcareous units are host to veins containing argentiferous galena and to gold rich mantos. The latter occur below an unconformity within Lower Cambrian limestone and the former occur throughout the calcareous members above the unconformity. The area has undergone at least five major deformational events. Fonseca (1998) attributes the gold rich manto, magnetite-gold skarns, veins and oxide gold occurrences and deposits to mineralizing fluids ascending D4 deformation event structures. The source of the mineralizing fluids is uncertain. The only igneous rocks exposed in the area are Mississippian age volcanic and intrusive rocks which have no special association with the ore bodies. Fonseca, (1998) suggests there is sufficient evidence, a mid-Cretaceous intrusion sits unexposed beneath the Ketz Uplift providing a probable heat source to drive the mineralizing fluids.

Trenching on the Hoey occurrence revealed six parallel bands of galena with pyrite and tetrahedrite from 13 to 36 cm wide across a 2.4 m width, in a strong vein fault up to 10 m wide. The vein fault strikes north and dips 73° west and cuts massive quartzite of Middle Silurian to Middle Devonian age. A chip sample collected in 1963 assayed 541.7 g/t Ag & 26.1% Pb across 2.4 m. Later trenching traced the zone along strike for over 274 m. The best continuous surface assay is 30 m grading 579.4 g/t Ag, 29.4% Pb and trace gold over a width of 2.6 m. The best assay from 3 drill holes below the zone is 3.3 m grading 11.0 g/t Au. No silver-lead mineralization was encountered in the adit, which is less than 30 m below the mineralized outcrop, but a 9 m length of vein in the drift assayed 23.3 g/t Au over a 1.5 m width.

Berdahl (1995) reported sampling an oxide zone located near the Hoey adit which returned 6.34 gpt Au from a grab sample. Berdahl describes the zone as being located at a quartzite-shale contact.

At least five weaker showings (F1, F3, F7, etc) occur within 610 m to the north and east. They contain similar mineralization with occasional traces of chalcopyrite, with galena erratically distributed and low in silver content. Canamax discovered oxidized mantos on the Gem 6 and Saddle 4 claims in 1986. One zone was traced for a length of 46 m on surface and averaged 3.4 g/t Au and 48.0 g/t Ag across 4.0 m in trench sampling. One drill hole returned an intersection of 6.9 g/t Au across 13.3 m.

Berdahl sampled existing trenches and material from numerous waste dumps in the area. Samples were analysed for gold plus 30 elements by ICP. Many of the areas previously mined for highgrade silver returned gold values of a gram per tonne or better. Anomalous thallium values (up to 114 ppm) occur with zinc sampled at the Hoey occurrence and also with some samples from the Saddle zone.

#### References

BERDAHL, R., Mar/96. Assessment Report #093455 by R. Berdahl.

BERDAHL, R., Dec/2000. Assessment Report #094154 by H. Plint.

CANAMAX RESOURCES INC, Jun/86. Assessment Report \*#091834 by C. Orssich.

CANAMAX RESOURCES INC, Nov/86. Assessment Report #091871 by C.N. Orssich, F.R. Harris and C.J. Hodgson.

CANAMAX RESOURCES INC, Sep/88. Assessment Report \*#092542 by F. Harris.

CATHRO, M.S., 1988. Gold and silver, lead deposits of the Ketza River District, Yukon: Preliminary results of field work; in Yukon Geology, Vol 2; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 8-25.

CYPRUS EXPLORATION CORPORATION LTD, Aug/55. Assessment Report #017405 by E. Just.

FONSECA, ANA, 1998. Structural evolution of the Ketza River gold deposit. In: Yukon Exploration and Geology 1997, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p.77-81.

GEOLOGICAL SURVEY OF CANADA Paper 66-31, p. 64-68; Paper 69-55, p. 44-46.

GEORGE CROSS NEWSLETTER, 22 Dec/89.

GORDEY, S.P. and MAKEPEACE, A.J., 2003. Yukon Digital Geology, version 2.0, S.P Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9(D).

IONA SILVER MINE LTD, Mar/78. Assessment Report #091139 by A. Becker.

IONA SILVER MINE LTD, May/78. Assessment Report #061867 by T.L. Sadlier-Brown and A.E. Nevin.

IONA SILVER MINES LTD, Sep/78. Assessment Report #091140 by P.H. Sevensma.

IONA SILVER MINES LTD, 1978. Assessment Report \*#091142 by P.H. Sevensma.

IONA SILVER MINES LTD, 1980. Assessment Report \*#090650 by P.H. Sevensma.

MINERAL INDUSTRY REPORT 1978, p. 61.

SERAPHIM, R.H., 1954. Assessment Report \*#017405 (formerly #017499) by R.H. Seraphim.

SILVER KEY MINES LTD and STUMP MINES LTD, Dec/67. Assessment Report #019895 by A.R. Archer.

SILVER KEY MINES LTD and STUMP MINES LTD, Jul/68. Assessment Report #019900 by A.R. Archer.

SILVER KEY MINES LTD and STUMP MINES LTD, Aug/68. Assessment Report #019897 by L. La Prairie.

SILVER KEY MINES LTD and STUMP MINES LTD, Sep/68. Assessment Report #019898 by L. La Prairie.

SILVER KEY MINES LTD and STUMP MINES LTD, Nov/68. Assessment Report #019899 by L. La Prairie.

STUMP MINES LTD, Sep/68. Assessment Report #018890 by R. Wilcox. (contains map and news clippings).

STUMP MINES LTD and SILVER KEY MINES LTD, May/68. Assessment Report #019902 by L. La Prairie.

STUMP MINES LTD and SILVER KEY MINES LTD, Jun/68. Assessment Report #019896 by L. La Prairie.

STUMP MINES LTD AND SILVER KEY MINES LTD, Aug/68. Assessment Report #092918 by L.LaPrairie.

STUMP MINES LTD AND SILVER KEY MINES LTD, Dec/68. Information Circular (contains map of underground drifting).

YUKON EXPLORATION 1985-86, p. 224-225, 230.

Work History		
Date	Work Type	Comment
12/31/1997	Geochemistry	
12/31/1997	Other	
12/31/1995	Geochemistry	
12/31/1995	Other	
12/31/1990	Trenching	E. Kopinec trenches the A claims.
12/31/1987	Drilling	Thirteen holes, 356.92 m.
12/31/1987	Geology	
12/31/1987	Geochemistry	
12/31/1987	Ground Geophysics	Max-min EM survey..
12/31/1987	Trenching	
12/31/1986	Drilling	Thirteen holes 95 m.
12/31/1980	Development, Underground	Adit advanced 42.37 m.
12/31/1978	Drilling	Seven holes, 459.33 m.

12/31/1976	Trenching	
12/31/1968	Geochemistry	
12/31/1968	Development, Underground	Drove a 57.91 m adit.
12/31/1964	Drilling	Nine holes, 407.21 m.
12/31/1964	Trenching	
12/31/1955	Geology	
12/31/1955	Trenching	
12/13/1961	Development, Underground	Also collected bulk sample.
12/13/1961	Development, Surface	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">095900</a>	2011	Ketza River Project, Report on 2011 Exploration Activities: Geophysical Results	Gravity Survey - Ground Geophysics		
<a href="#">094761</a>	2005	Prospecting and Geochemical Report, Ketza Project	Rock - Geochemistry, Soil - Geochemistry		
<a href="#">094154</a>	1997	Structural Report on the Star 1-8 Claims	Rock - Geochemistry, Bedrock Mapping - Geology		
<a href="#">093455</a>	1995	General Prospecting Report on the Stew Project	Rock - Geochemistry, Soil - Geochemistry		
<a href="#">091863</a>	1986	1986 Geochemical and Trenching Assessment Report	All Weather Road - Development, Surface, Soil - Geochemistry , Mechanical - Trenching		
<a href="#">091871</a>	1986	1986 Drilling Assessment Report	Diamond - Drilling	13	603.80
<a href="#">061651</a>	1978	Summary Report	Data Compilation - Pre-existing Data		
<a href="#">091139</a>	1977	[Drilling in Ketza River Area F-3 Showing]	Soil - Geochemistry		
<a href="#">060691</a>	1969	A summary of Recommendations for Work on the Iona Silver Mines Property	Magnetic - Development, Underground, Bulk Sample - Lab Work/Physical Studies, Data Compilation - Pre-existing Data		
<a href="#">019899</a>	1968	Progress Report	Drifting/Raising - Development, Underground, Rehabilitation - Development, Underground, Tunnelling - Development, Underground		
<a href="#">019897</a>	1968	Progress Report	Drifting/Raising - Development, Underground, Rehabilitation - Development, Underground, Tunnelling - Development, Underground		
<a href="#">019900</a>	1968	Report on the Ketza River Property, Yukon for Silver Key Mines Ltd. & Stump Mines Ltd.	Drifting/Raising - Development, Underground, Rehabilitation - Development, Underground, Tunnelling - Development, Underground, Soil - Geochemistry, Data Compilation - Pre-existing Data		
<a href="#">019898</a>	1968	Progress Report	Magnetic - Development, Underground, Soil - Geochemistry, Bulk Sample - Lab Work/Physical Studies		
<a href="#">019895</a>	1967	Report on Ketza River Property, Yukon for Silver Key Mines Ltd. & Stump Mines Ltd.	Research/Summarize - Pre-existing Data		
<a href="#">018888</a>	1966	Report on the Ketza River Property, Yukon for Silver Key Mines Ltd. and Stump Mines Ltd.	Rock - Geochemistry, Soil - Geochemistry, Hand - Trenching		
<a href="#">017405</a>	1954	Geological and Sampling Report Galena 1-8 and Prop 1-6 Claims	Detailed Bedrock Mapping - Geology		
<a href="#">017499</a>	1954	Galena Group Ketza River Y. T.	Bedrock Mapping - Geology		

Related References				
Number	Title	Page(s)	Reference Type	Document Type
<a href="#">ARMC005259</a>	Claim map - Jonothan option		Property File Collection	Geoscience Map (General)
<a href="#">ARMC005260</a>	Claim group map - Ketza Creek		Property File Collection	Geoscience Map (General)
<a href="#">ARMC005261</a>	Extract from letter - Re: Ketza River group		Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC005263</a>	Report on Ketza River claims		Property File Collection	Report
<a href="#">ARMC014348</a>	Memorandum by W..J. Rundle - Ketza River claims, Yukon Territory		Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014349</a>	Summary report Ketsa River area with attached assay report		Property File Collection	Report
<a href="#">ARMC014350</a>			Property File	

<a href="#">ARMC014340</a>	Memos to P.W. Allen re: Ketza River area - Yukon Territory	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014343</a>	Map of showing Key 3A - Ketza River area with geology notations	Property File Collection	Geoscience Map (Geological - Bedrock)
<a href="#">ARMC014342</a>	Ketza River mineral area map with legend, sample locations and notations - From a map dated Oct 4, 1954 by R.J.M.	Property File Collection	Geoscience Map (General)
<a href="#">ARMC014358</a>	Ketzakey Silver Mines delivery notice showing value of load	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014347</a>	Geological report on Galena 1 to 8 and Frop 1 to 6 claims	Property File Collection	Report
<a href="#">ARMC014357</a>	Progress report - Toronto, the Noranda area, our claims in the Yukon, and Flin Flon	Property File Collection	Report
<a href="#">ARMC014344</a>	Public prospectus - 1977 - Iona Silver Mines Ltd.	Property File Collection	News Release
<a href="#">ARMC014353</a>	Galena group - Ketza River, Y.T.	Property File Collection	Report
<a href="#">ARMC014356</a>	Copy from "Assay certificate" - File no. 44g - 454-2 - Ketsa River Key claims	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014355</a>	Copy of a letter to R.M. Belliveau re: Ketsa River mineral claims prospect	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014352</a>	Correspondence and preliminary report - Ketza River, Yukon	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014346</a>	Correspondence RE: Ketza claims, Stump mines, 'A' Zone	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014354</a>	Correspondence re: Ketza River, Yukon Territory to Evan Just	Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC014345</a>	Correspondence RE: Key group of claims - Ketza River	Property File Collection	Miscellaneous Company Documents