

Occurrence Details

Occurrence Number: 105F 057 Occurrence Name: Ketzakey Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: lead, silver

Secondary Commodities: antimony, copper, gold

Aliases: Key 18b

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

Location(s): 61°33'3" N - -132°9'25" W

NTS Mapsheet(s): 105F09

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Key cl (69101) by G. Fairclough and optioned in 1955 by Conwest Exploration Company Ltd, and in 1959 by R.R. Kirwan, H. Regehr & E. Erickson, who transferred the claims to a new company, Ketzakey Silver Mine Ltd, in 1960. The property was optioned from 1964 to 1972 by Silver Key Mine Ltd, which entered a joint venture with Stump Mines Ltd in 1967 and explored with geochemical sampling, bulldozer trenching and 268.2 m of drifting on two levels in 1968-69 and added the Pex cl (89062) to the east in Feb/65. Silver Key was reorganized as Nordev Resources Ltd in Mar/72.

The occurrence was restaked as Camp cl 2 (Y94450) in Jul/72 by A.M. Riba, Regehr and Erickson, who performed bulldozing in 1974-75. Camp cl 2 appears to cover the underground workings. Various other Camp claim groups occur in the immediate area and it appears that the trio, used the claims to cover lapsing Key claims. In Mar/76 the men formed a new company, Iona Silver Mines Ltd, to develop the occurrence and surrounding showings. Iona explored with more bulldozer trenching in 1976 and 1977, 3 holes (160.3 m) in 1978 and a 24.4 m raise between the 800 and 700 levels in 1978-79.

In Aug/79, Agorex Gesellschaft zur Gewinning von Bodenschatzen CmbH & C obtained first right of refusal for production financing through an Iona option to TRV Minerals Corp, which retained a 5% net smelter interest. In 1980, the 800 level adit was advanced 73.2 m and a 20.4 m raise was driven from the 700 level to surface.

Iona optioned its claims to Canamax Resources Inc in 1985 and changed its name to Aigner Holdings Ltd in 1987. The claims were transferred back to Aigner Holdings in Dec/89. In Mar/95 the occurrence was restaked as E cl 1-2 (YB59268) by R. Berdahl. Between July and Oct/95 Berdahl prospected and sampled various mineralized showings on the E claims. The work was part of a larger program carried out by Berdahl on various surrounding claim blocks.

Capsule Geology

The main vein, called Key 18B, is a complex, branching structure in thin bedded upper Cambrian to lower Ordovician argillaceous limestone, which was discovered with soil sampling in 1968. It strikes north and dips steeply east. Mineralization consists of galena, pyrite with minor tetrahedrite and sphalerite in a carbonate gangue. At least three other weaker showings occur within 609.6 m to the northwest. In Mar/69 Stump Mines and Silver Key Mines reported the vein hosted inferred resources of 9,072 tonnes grading 582.85 g/t Ag.

The 700 level adit, about 22.9 m below the surface exposure, developed 3.7 m of mineralization grading 692.6 g/t Ag and 12.4% Pb over a 1.7 m width, and the 800 level adit (30.5 m lower) developed 25 m of vein grading 493.7 g/t Ag over a width of 1.5 m. The bottom 7.6 m of the raise assayed 538.3 g/t Ag and 12.4% Pb across a 2.4 m width, while the upper 26 m of raise, at surface, averaged 353.13 g/t Ag and 1.4% Pb across 1.8 m.

In 1975 Nordev Resources released a pre-feasibility study which estimated reserves at 10,702 tonnes proven and possible, grading 545.3 g/t Ag and 12.1% Pb (a record search of the Energy Mines and Resources Library, Yukon Government failed to located the pre-feasibility study).

Berdahl collected 7 selective grab samples from tailings and waste piles located around the Ketza Key adit. The samples averaged over 1 g/t Au and Cu rich samples from the waste dump assayed up to 3,430 ppb Au, 1% Cu and 3,153 ppm Sb.

Work History

| Date | Work Type | Comment |
|------------|-----------|--|
| 12/31/1995 | Other | |
| 12/31/1995 | Other | |
| 12/31/1980 | Other | Advanced 800 level adit 73.15 m & drove a 20.42 m raise. |
| 12/31/1979 | Geology | |
| 12/31/1979 | Other | |
| 12/31/1978 | Drilling | 3 holes, 160.3 m |
| 12/31/1978 | Geology | |
| 12/31/1978 | Other | |
| 12/31/1977 | Trenching | |
| 12/31/1976 | Trenching | |
| 12/31/1975 | Trenching | |

| 12/31/1974 | Trenching | |
|------------|-----------|-------------------------------------|
| 12/31/1969 | Trenching | |
| 12/31/1969 | Other | |
| 12/31/1969 | Other | |
| 12/31/1968 | Trenching | |
| 12/31/1968 | Other | 268.22 m of drifting on two levels. |

| Asses | sment Re | ports that overlap occurrence | | | | |
|------------------|----------|--|--|------------------|-------------------|--|
| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled | |
| 095900 | 2011 | Ketza River Project, Report on 2011 Exploration Activities: Geophysical Results | Gravity Survey - Ground Geophysics | | | |
| 093455 | 1995 | General Prospecting Report on the Stew Project | Rock - Geochemistry, Soil - Geochemistry | | | |
| 091871 | 1986 | 1986 Drilling Assessment Report | Diamond - Drilling | 13 | 603.80 | |
| 090650 | 1979 | Trenching Report | Rock - Geochemistry, Backhoe - Trenching | | | |
| <u>061651</u> | 1978 | Summary Report | Data Compilation - Pre-existing Data | | | |
| 091139 | 1977 | [Drilling in Ketza River Area F-3 Showing] | Soil - Geochemistry | | | |
| 061867 | 1977 | A summary of Recommendations for Work on the Iona Silver Mines Property | Data Compilation - Pre-existing Data | | | |
| 061144 | 1972 | Preliminary Evaluation Report Ketza River Silver - Lead Project | Research/Summarize - Pre-existing Data | | | |
| 060691 | 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 | | | |
| 019899 | 1968 | Progress Report | Drifting/Raising - Development, Underground, Rehabilitation - Development, Underground, Tunnelling - Development, Underground | | | |
| 019897 | 1968 | Progress Report | Drifting/Raising - Development, Underground, Rehabilitation - Development, Underground, Tunnelling - Development, Underground | | | |
| 019900 | 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 | | | |
| 018889 | 1968 | Final Report on 1968 Geochemical Exploration Program | Soil - Geochemistry | | | |
| 019898 | 1968 | Progress Report | Magnetic - Development, Underground, Soil - Geochemistry, Bulk Sample - Lab Work/Physical Studies | | | |
| 019895 | 1967 | Report on Ketza River Property, Yukon for Silver Key Mines Ltd. & Stump Mines Ltd. | Research/Summarize - Pre-existing Data | | | |
| 018888 | 1966 | Report on the Ketza River Property, Yukon for Silver Key Mines Ltd. and Stump Mines Ltd. | Rock - Geochemistry, Soil - Geochemistry, Hand - Trenching | | | |
| 018893 | 1955 | Ketza River Area, 1955 Field Season | Rock - Geochemistry, Bedrock Mapping - Geology, Backhoe - Trenching | | | |

| Related References | | | | | | | |
|--------------------|---|---------|-----------------------------|--|--|--|--|
| Number | Title | Page(s) | Reference Type | Document Type | | | |
| ARMC01428 6 | Plan of Ketzakey property - Whitehorse M.D. Yukon - Fig. 1 | | Property File Collection | Geoscience Map (General) | | | |
| ARMC01428 7 | Plan of Key 3A showing - Ketzakey Silver Mines - Whitehorse M.D. Yukon - Fig. 2 | | Property File Collection | Geoscience Map (Geological - Bedrock) | | | |
| ARMC01430 Z | Report on Ketza River area, Y.T Submitted to British Yukon Exploration Co. | | Property File Collection | Report | | | |
| ARMC01430 8 | Report on Key group - Ketsa River, Yukon | | Property File Collection | Report | | | |
| ARMC01397 3 | Report on property of Ketzakey Silver Mines - Quiet Lake area | | Property File Collection | Report | | | |
| ARMC01434 8 | Memorandum by WJ. Rundle - Ketza River claims, Yukon Territory | | Property File Collection | Miscellaneous Company Documents | | | |
| ARMC01434 9 | Summary report Ketsa River area with attached assay report | | Property File Collection | Report | | | |
| ARMC01435 0 | Memos to P.W. Allen re: Ketza River area - Yukon Territory | | Property File Collection | Miscellaneous Company Documents | | | |
| ARMC01430 6 | Silver-Lead deposits on Key and Strike mineral claims | | Property File Collection | Report | | | |

| ARMC01428 9 | News clipping - Ketzakey Silver Mines to work through winter | | Property File Collection | News Release | |
|------------------------------|---|--|-----------------------------|--|--|
| ARMC01429 8 | Sketch map - Key #3 showing - Ketza R. Y.T Showing 1956 work relative to adits driven 1955 - Map 4 | | Property File Collection | Geoscience Map (General) | |
| ARMC01429 4 | sketch map of Silver Creek area with field notations indicating claims | | Property File Collection | Geoscience Map (General) | |
| ARMC01430 9 | 11430 Information for shareholders - Silver Key Mines Limited - Ross River: New economy for Yukon | | Property File Collection | News Release | |
| ARMC01430 5 | Map of showing Key 3A - Ketza River area - Sketch 6 - Additional handwritten notes added | | Property File Collection | Geoscience Map (Geological - Bedrock) | |
| <u>ARMC01434</u> <u>3</u> | Map of showing Key 3A - Ketza River area with geology notations | | Property File Collection | Geoscience Map (Geological - Bedrock) | |
| ARMC01428 8 | Sketch of section A-B - Key 3A showing - Ketzakey Silver Mines - Fig. 3 | | Property File Collection | Geoscience Map (General) | |
| ARMC01430 4 | Ketza River mineral area map with legend and notations - Conwest Exploration | | Property File Collection | Geoscience Map (General) | |
| ARMC01434 2 | 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) | |
| ARMC01435 8 | Ketzakey Silver Mines delivery notice showing value of load | | Property File Collection | Miscellaneous Company Documents | |
| ARMC01430 2 | Ketzakey sketch map - Showing New Mine Road | | Property File Collection | Geoscience Map (General) | |
| ARMC01429 6 | Letter Re: Ketzakey Silver Mines spectrographic analysis - File no. 3909 | | Property File Collection | Miscellaneous Company Documents | |
| ARMC01435 Z | Progress report - Toronto, the Noranda area, our claims in the Yukon, and Flin Flon | | Property File Collection | Report | |
| ARMC01434 4 | Public prospectus - 1977 - Iona Silver Mines Ltd. | | Property File Collection | News Release | |
| <u>ARMC01431</u> <u>0</u> | George Cross news letters no. 68, 65, 17, 189, 163 and 52 - With map of Silver-lead showings - Ketza River area | | Property File Collection | News Release | |
| ARMC01435 6 | Copy from "Assay certificate" - File no. 44g - 454-2 - Ketsa River Key claims | | Property File Collection | Miscellaneous Company Documents | |
| ARMC01435 5 | Copy of a letter to R.M. Belliveau re: Ketsa River mineral claims prospect | | Property File Collection | Miscellaneous Company Documents | |
| <u>ARMC01434</u> <u>6</u> | Correspondence RE: Ketza claims, Stump mines, 'A' Zone | | Property File Collection | Miscellaneous Company Documents | |
| ARMC01435 4 | Correspondence re: Ketza River, Yukon Territory to Evan Just | | Property File Collection | Miscellaneous Company Documents | |
| <u>ARMC01434</u> <u>5</u> | Correspondence RE: Key group of claims - Ketza River | | Property File Collection | Miscellaneous Company Documents | |
| <u>ARMC01429</u> <u>5</u> | Assay certificate - Ketzakey Silver Mines - File No. 1066-25 | | Property File Collection | Assays | |
| ARMC01429 9 | Assay plan of Adit #2 (Drift at P2) - Sample sketches & assays supplied by W. Heshka - Sketch 4 | | Property File Collection | Geoscience Map (General) | |
| ARMC01430 1 | Cross-sectional sketch map of Ketza River claim | | Property File Collection | Geoscience Map (General) | |
| ARMC01430 0 | Assay report - Ketza River - Report 5024/E60/94/I & final on assay | | Property File Collection | Report | |
| ARMC01430 3 | Description of Ketza R. showings - Notes | | Property File Collection | Miscellaneous Company Documents | |
| | | | | | |

| Resource/Reserve | | | | | | | | | |
|------------------|--|---------------------|-----------|------------|---------|---------|--------------------|---------------------|---------|
| Year | Zone | Туре | Commodity | Grade | Tonnage | A mount | Reported Amount | 43-101 Compliant | Cut-off |
| 1989 | KETZAKEY - KEY 18B - TOTAL RESERVES (UNDERGROUND) | Historical Estimate | silver | 545.1 g/t | 10,702 | | No | No | Unknown |
| | This was reported as Proven and Possible Reserves. Does not meet National Instrument 43-101 standards. Calculated from underground exploration and diamond drilling. Originally calculated by Nordev Resources Ltd. Other resource figures have been reported in various publications but this figure is the most commonly reported. See Yukon Gold-Silver File by Morin, also Yukon Geology Volume 1 p. 64. | | | | | | | | |
| 1989 | KETZAKEY - KEY 18B - TOTAL RESERVES (UNDERGROUND) | Historical Estimate | lead | 12.15 % | 10,702 | | No | No | Unknown |
| | This was reported as Proven and Possible Reserves. Does not meet National Instrument 43-101 standards. Calculated from underground exploration and diamond drilling. Originally calculated by Nordev Resources Ltd. Other resource figures have been reported in various publications but this figure is the most commonly reported. See Yukon Gold-Silver File by Morin, also Yukon Geology Volume 1 p. 64. | | | | | | | | |
| 1969 | KETZAKEY - KEY 18B - TOTAL RESERVES (UNDERGROUND) | Historical Estimate | silver | 582.85 g/t | 9,072 | | No | No | Unknown |
| Reserve | Reserve figure based on underground and surface exploration results. Reported as inferred resources. Does not meet National Instrument 43-101 standards. | | | | | | | | |