

2018 ASSESSMENT REPORT
on the
GOLD HILL & KENO-LIGHTNING CLAIMS
KENO SILVER PROJECT, YUKON

NTS: 105M/14 & 15

Gold Hill 63°94'N. Latitude, 135°19'W. Longitude
Keno-Lightning 63°55'N. Latitude, 135°5'W. Longitude
Mayo Mining District

Claims work applied to:

Refer to Table 2

Period of Work:

Gold Hill: July 1st to July 2nd, 2018
Keno-Lightning: July 28th to August 1st, 2018

Prepared for:



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Junior Geologist, MMG

April 12th, 2019

1 Summary

The Keno Silver Project included in this report ('the Project') is centered approximately 465 km by road northeast of the city of Whitehorse and 60 km by road northeast of the town of Mayo and depending upon the location within the claim block, Keno City is located between 4 and 20 km away (Figure 1). The following claim groups comprise a portion of the Keno Silver Project, which was filed on in 2019, and the results of that work is contained within this report.

Claim Group	No. of Claims	Ownership	Work Filed	Filing Date
Gold Hill	1	Metallic Minerals Corp.-100%	1 Diamond Drill Hole	March, 2019
Keno-Lightning	366	Metallic Minerals Corp.-100%	2 Diamond Drill Holes	March, 2019

Three diamond drill holes were filed for assessment work on the listed claims. **Table 1** summarizes the location of the drill holes and the respective filing. **Table 2** summarizes how the work done on these claims is being applied to the claims listed.

The 2018 Gold Hill diamond drilling program was designed to test the down-dip continuity of a trenched vein, proposed to be a splay of the Porcupine-Kinman Vein, exposed during the 2017 field season. Between July 1st and July 2nd, 2018, one diamond drill hole (GH18-002) totalling 41m was completed, returning 17.1 g/t Ag, 0.13 % Pb, 0.19 % Zn and 4.39 % Fe over a 1.70 m interval.

The 2018 Caribou Hill diamond drilling program was designed to test the down-dip continuity of high-grade shoots of the shallow-dipping Caribou Vein identified in 2011. Additionally, the proposed Caribou drilling served as an infill program, aiming to combine previous years drilling results to create a vein intercept pattern on a twenty-meter scale adequate for a NI43-101 compliant inferred resource estimation. Between July 28th and August 1st, 2018, two diamond drill holes (CH18-039 & -040) totalling 211m were completed. Hole CH18-039 returned 136 g/t Ag, 0.54 % Pb, 0.65 % Zn, 1.00 % Mn, and 22.4 % Fe over a 2.0 m interval of breccia. Hole CH18-040 returned 183 g/t Ag, 0.69 % Zn, 1.00 % Mn and 11.2 % Fe over a 0.30 m interval. Continuing down-hole, CH18-040 returned 73.3 g/t Ag, 0.21 g/t Au, 1.81 % Pb, 2.45 % Zn, 1.00 % Mn, and 26.4 % Fe over a 0.35 m interval.

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2 Introduction

Three diamond drill holes were filed for assessment work on the listed claims. **Table 1** summarizes the location of the drill holes and the respective filing. **Table 2** summarizes how the work done on these claims is being applied to the claims listed. The 2018 Gold Hill diamond drilling program was designed to test the down-dip continuity of a trenched vein, proposed to be a splay of the Porcupine-Kinman Vein, exposed during the 2017 field season. The 2018 Caribou Hill diamond drilling program was designed to test the down-dip continuity of high-grade shoots of the shallow-dipping Caribou Vein identified in 2011. Additionally, the proposed Caribou drilling served as an infill program, aiming to combine previous years drilling results to create a vein intercept pattern on a twenty-meter scale adequate for a NI43-101 compliant inferred resource estimation.

Table 1. Diamond Drill Holes (DDH) filed for Assessment Work.

<i>Filing</i>	<i>Prospect</i>	<i>Claim Name</i>	<i>Grant No.</i>	<i>Hole ID</i>	<i>Easting</i>	<i>Northing</i>
Gold Hill	Gold Hill	Murray 11	YC39969	GH18-002	490717	7090626
Keno-Lightning	Caribou Hill	Murray 3	YC39002	CH18-039	492856	7091049
Keno-Lightning	Caribou Hill	Murray 3	YC39002	CH18-040	492855	7090926

The following claim groups comprise a portion of the Keno Silver Project, which was filed on in 2019, and the results of that work is contained within this report (Table 2).

Table 2. Filings included in the Gold Hill and Keno-Lightning assessment report.

<i>Claim Name(s)</i>	<i>Grant No.(s)</i>	<i>No. of Claims</i>	<i>Current Expiry</i>	<i>New Expiry</i>	<i>Years Filed/Claim</i>	<i>Work Required</i>	<i>Work Completed</i>
Murray 11	YC39969	1	2021-12-01	2025-12-01	4	\$400.00	\$11,979.28
		1					\$11,979.28
<i>Claim Name(s)</i>	<i>Grant No.(s)</i>	<i>No. of Claims</i>	<i>Current Expiry</i>	<i>New Expiry</i>	<i>Years Filed/Claim</i>	<i>Work Required</i>	<i>Work Completed</i>
Gram 1-24	YC52446-469	24	2020-11-01	2021-11-01	1	\$2,400.00	\$2,400.00
Isabel	59029	1	2021-12-01	2022-12-01	1	\$100.00	\$100.00
Isabel 2	62326	1	2021-12-01	2022-12-01	1	\$100.00	\$100.00
Isabel 3-4	62993-94	2	2021-12-01	2022-12-01	1	\$200.00	\$200.00
Livi 1-11	YE55981-991	11	2021-12-01	2022-12-01	1	\$1,100.00	\$1,100.00
Livi 12-211	YF57312-511	200	2021-12-01	2022-12-01	1	\$20,000.00	\$20,000.00
Livi 212-227	YE10712-727	16	2021-12-01	2022-12-01	1	\$1,600.00	\$1,600.00
Livi 236-239	YE10736-739	4	2021-12-01	2022-12-01	1	\$400.00	\$400.00
M 41-44	YE41541544	4	2021-12-01	2022-12-01	1	\$400.00	\$400.00
M 53-72	YE41553-572	20	2021-12-01	2022-12-01	1	\$2,000.00	\$2,000.00
M 75-88	YE41575-588	14	2021-12-01	2022-12-01	1	\$1,400.00	\$1,400.00
M Fr. 45-51	YE41545-551	7	2021-12-01	2022-12-01	1	\$700.00	\$700.00
MMG 11	YE55811	1	2022-12-22	2023-12-22	1	\$100.00	\$100.00
MMG 154-180	YE55954-980	27	2022-01-03	2023-01-03	1	\$2,700.00	\$2,700.00
MMG 3-4	YE55803-804	2	2022-12-22	2023-12-22	1	\$200.00	\$200.00
MMG 7	YE55807	1	2022-12-22	2023-12-22	1	\$100.00	\$100.00
MMG Fr. 1-2	YE55801-802	2	2022-12-22	2023-12-22	1	\$200.00	\$200.00
Taf	YC39574	1	2021-12-01	2022-12-01	1	\$100.00	\$100.00
TEACH 1-9	YE70944-952	9	2021-12-01	2022-12-01	1	\$900.00	\$900.00
Union	12811	1	2021-12-01	2022-12-01	1	\$100.00	\$100.00
		366				\$36,600.00	\$36,000.00

The work was prepared to satisfy requirements for Assessment Report filing by the Yukon Mining Recorder, Ministry of Energy, Mines and Resources, Government of Yukon. The work was carried out and funded by Metallic Minerals Corp and its contractors.

This report is based on the observations and information collected by the author, other geologists, and technicians during the 2018 Keno Silver Project field program. In preparation for this report, the author used Government of Yukon and Government of Canada geological maps, geological records, and claim maps, as well as the mineral assessment work reports from the Mayo Mining District area which have been filed with the Yukon Mining Recorder by various companies. Information sourced from previous reports and publications is listed under References.

3 Qualified Persons & Personnel

The 2018 Keno Silver project exploration program was conducted by, and under the supervision of Scott Petsel, P.Geo (the Qualified Person for the program in the context of National Instrument 43-101) and Debbie James, P.Geo. **Table 3** below lists all employees and contractors who worked on the Keno Silver Project and indicates if they worked specifically on the Gold Hill and/or Keno-Lightning claims.

Table 3. 2018 Keno Silver Project Personnel.

<i>Personnel</i>	<i>Position</i>	<i>Responsibilities</i>
Geologists		
Scott Petsel, <i>P.Geo</i>	Vice President Exploration	Keno Silver Project management, Qualified Person
Debbie James , <i>B.Sc, P.Geo</i>	Project Manager & Sr. Geologist	Keno Silver Project management
Stuart Morris , <i>P.Geo</i>	Modeller & Sr. Geologist	Geologic modelling, drill program planning
Jacob Longridge , <i>Ph.D, P.Geo</i>	Geologist	Core logging, field mapping, geochemical analysis
Barry Penner , <i>M.Sc candidate</i>	Geologist	Core logging, geoteching, field mapping, drill program planning
Rex Turna , <i>B.Sc</i>	Drill Geologist	Core logging, geoteching, pad staking, drill program planning & execution
Paige Ahrens , <i>B.Sc</i>	Junior Geologist	Core logging, geoteching, field assistant, soil sampling, data input & reporting
Samantha Dyck , <i>B.Sc, Adv Dip GIS</i>	GIS Specialist	Data input, reporting, GIS
Local Hires		
Patrick Livingstone	Laborer/Field Assistant	Soil sampling, geoteching, core-cutting, construction
Scott Buchanan	Laborer/Field Assistant	Soil sampling
Adam Sharman	Laborer/Field Assistant	Soil sampling, geoteching, core-cutting, construction
Kayla Trudeau	Laborer/Field Assistant	Soil sampling, geoteching, core-cutting, data input
Cooks		
Jayne Dagostin	Cook	Food logistics & preparation for Keno Silver crew
Donna Magee	Bull cook/Cleaning Services	Food logistics & preparation
Beth Hunt	Relief Cook	Food logistics & preparation
Contractors		
	Service	Headquarters
Boart Longyear	Diamond Drilling	Salt Lake City, Utah
Heli Dynamics Ltd.	Helicopter Services	Whitehorse, Yukon
Annuk Expediting & Logistics	Expediting	Whitehorse, Yukon
Mammoth Exploration Ltd.	Soil Sampling	Whitehorse, Yukon
Acme Analytical Laboratories Ltd.	Sample Preparation	Whitehorse, Yukon
Acme Analytical Laboratories Ltd.	Sample Analytics	Vancouver, BC
Total North Communications Ltd.	Radio Communications	Whitehorse, Yukon
J&B Contracting	Bulldozer & Excavator	Mayo, Yukon
Winston	Machine Operator	Mayo, Yukon
Brian Diduik	Machine Operator	Courtenay, B.C

*Names in **bold** indicates that they worked specifically on the Gold Hill and/or Keno-Lightning claims.

4 Property Description

4.1 Location & Access

The Keno Silver Project included in this report ('the Project') is centered approximately 465 km by road northeast of the city of Whitehorse and 60 km by road northeast of the town of Mayo and depending upon the location within the claim block, Keno City is located between 4 and 20 km away (Figure 1). Mayo is situated on the Silver Trail Highway, a paved all-weather highway running from Whitehorse to Mayo. From Mayo, the Silver Trail continues to Keno City, but turns to gravel just east of Mayo. Subsidiary unpaved roads provide access to a large portion of the Project. The Project is located within the Mayo Mining District and the following claim groups were filed on in 2018 (Table 3).

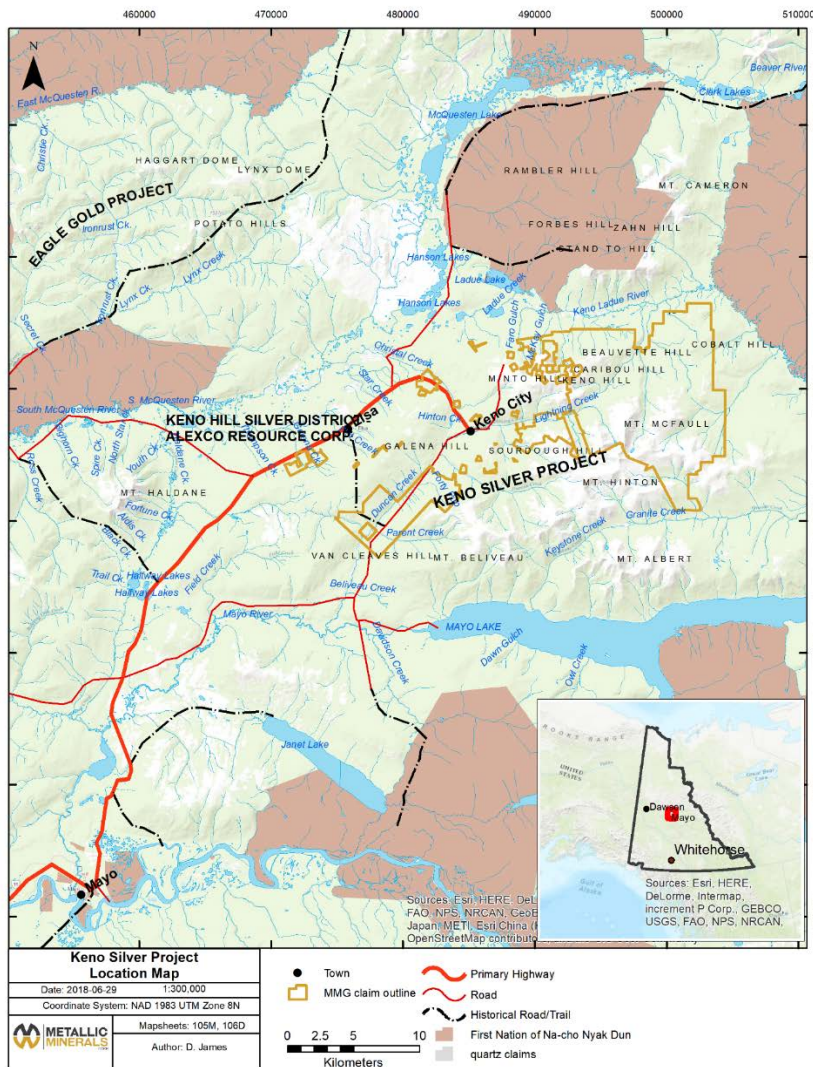


Figure 1. Location of the Keno Silver Project, Yukon.

4.2 Land Tenure

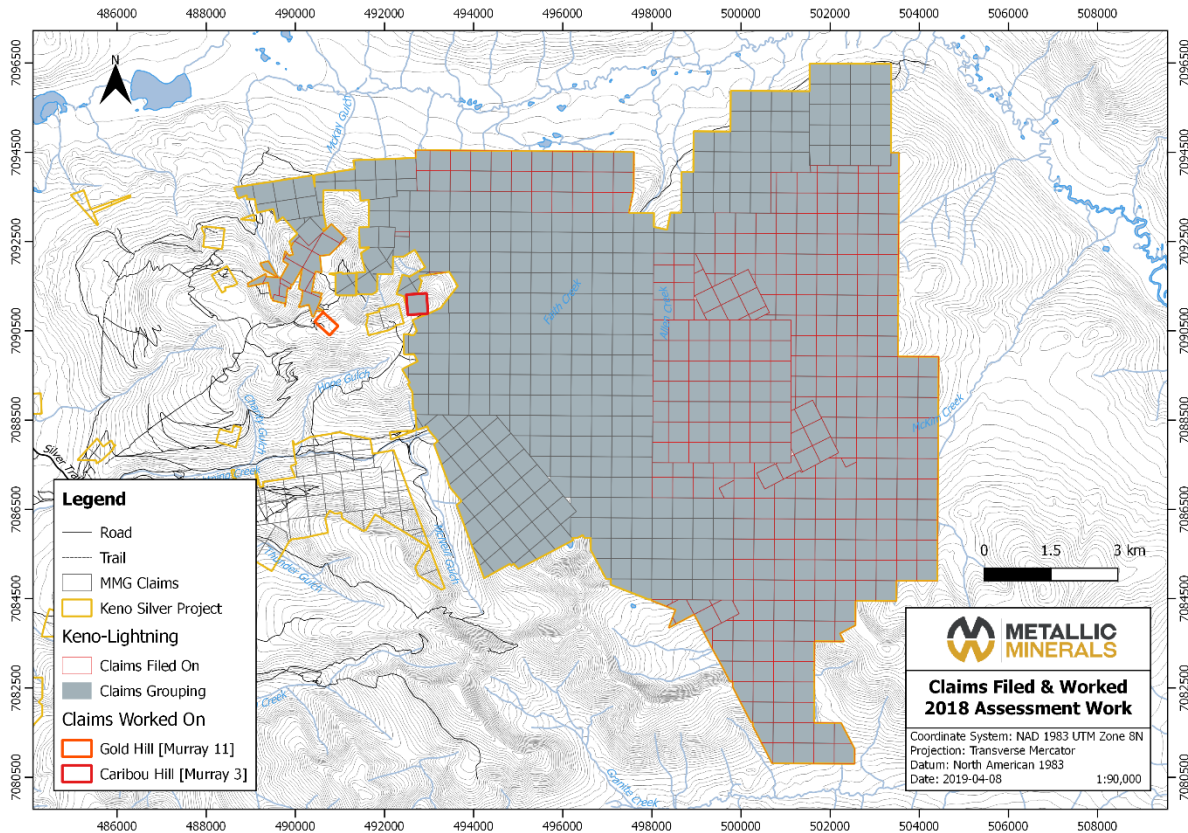


Figure 2. Keno-Lightning and Gold Hill claims filed for 2018 Assessment Work on the Keno Silver Project.

The Gold Hill prospect discussed in this report refers to Murray 11, a 13-hectare claim currently 100% owned by Metallic Minerals Corp. The Gold Hill area is located 6.5 km northeast of Keno City accessible by the well-maintained Sign Post Summit Road, or alternatively, the Keno 700 Road (Figure 2).

The Caribou Hill prospect is part of the Keno-Lightning grouping; a 693 claims grouping of Metallic Minerals Corp.'s Keno Silver Project. Within the Keno-Lightning claims grouping a smaller sub-set of 366 claims had work filed on them. The claims with work filed on them in 2019 comprise approximately 6,548 hectares, located 6.0-19.5 km northeast to southeast of Keno City. Access to the eastern portion of the Keno-Lightning claims required helicopter transport and traverse. The Caribou Hill prospect in this report refers to Murray 3, a 20.7-hectare claim located 8.5 km northeast of Keno City, accessible by a network of well-maintained 4x4 roads (Figure 2).

Table 4. Claims included in the Keno-Lightning grouping.

<i>Claim Name(s)</i>	<i>Grant No.(s)</i>	<i>Ownership</i>	<i>No. of Claims</i>	<i>Current Expiry</i>	<i>New Expiry</i>
Aho 1-20	YC57784-67503	MMG-100%	20	2024-12-01	
AHO 21-56	YD11271-22800	MMG-100%	36	2024-12-01	
Blanche	YC00365	MMG-100%	1	2024-12-01	
Blanche Fr	YF46472	MMG-100%	1	2024-12-01	
Gram 1-24	YC52446-52469	MMG-100%	24	2020-11-01	2021-11-01
Gram 25-42	YC68104-68121	MMG-100%	18	2020-11-01	2021-11-01
HORN-SILVER	59334	MMG-100%	1	2024-12-01	
Isabel	59029	MMG-100%	1	2021-12-01	2022-12-01
Isabel 2	62326	MMG-100%	1	2021-12-01	2022-12-01
Isabel 3-4	62993-94	MMG-100%	2	2021-12-01	2022-12-01
Livi 1-11	YE55981-55991	MMG-100%	11	2021-12-01	2022-12-01
Livi 12-211	YF57312-57511	MMG-100%	200	2021-12-01	2022-12-01
Livi 212-227	YE10712-10727	MMG-100%	16	2021-12-01	2022-12-01
Livi 236-239	YE10736-739	MMG-100%	4	2021-12-01	2022-12-01
Louis 1-28	YF46473-46500	MMG-100%	28	2024-12-01	
M 41-44	YE41541-41544	MMG-100%	4	2021-12-01	2022-12-01
M 53-72	YE41553-41572	MMG-100%	20	2021-12-01	2022-12-01
M 75-88	YE41575-41588	MMG-100%	14	2021-12-01	2022-12-01
M Fr. 45-51	YE41545-41551	MMG-100%	7	2021-12-01	2022-12-01
Maja 14, 15-24	YC39543, YC39878-39887	MMG-100%	11	2024-12-01	
Maja 1-8	YC38992-38999	MMG-100%	8	2024-12-01	
Maja 25-36	YC57465-57476	MMG-100%	12	2024-12-01	
Maja 9-13	YC39004-39008	MMG-100%	5	2024-12-01	
MMG 154-180	YE55954-55980	MMG-100%	27	2022-01-03	2023-01-03
MMG 3-4,	YE55803-55804	MMG-100%	2	2022-12-22	2023-12-22
MMG 7, 11	YE55807, YE55811	MMG-100%	2	2022-12-22	2023-12-22
MMG Fr. 1-2	YE55801-55802	MMG-100%	2	2022-12-22	2023-12-22
Murray 12-17	YC56160-56165	MMG-100%	6	2024-12-01	
Murray 3-4	YC39002-39003	MMG-100%	2	2024-12-01	
Murray 5-10	YC39963-39968	MMG-100%	6	2024-12-01	
Silver Basin #7-8	55466-67	MMG-100%	2	2024-12-01	
Ski 1-46	YC39009-39454	MMG-100%	46	2024-12-01	
Ski 47-48	YC39888-39889	MMG-100%	2	2024-12-01	
Ski 49-58	YC56166-56175	MMG-100%	10	2024-12-01	
Ski 59-90	YC67504-67535	MMG-100%	32	2024-12-01	
Ski 91-188	YC68194-68331	MMG-100%	98	2024-12-01	
Taf	YC39574	MMG-100%	1	2021-12-01	2022-12-01
TEACH 1-9	YE70944-70952	MMG-100%	9	2021-12-01	2022-12-01
Union	12811	MMG-100%	1	2021-12-01	2022-12-01

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(366)

4.3 Regional & Property Geology

4.3.1 Regional Geology

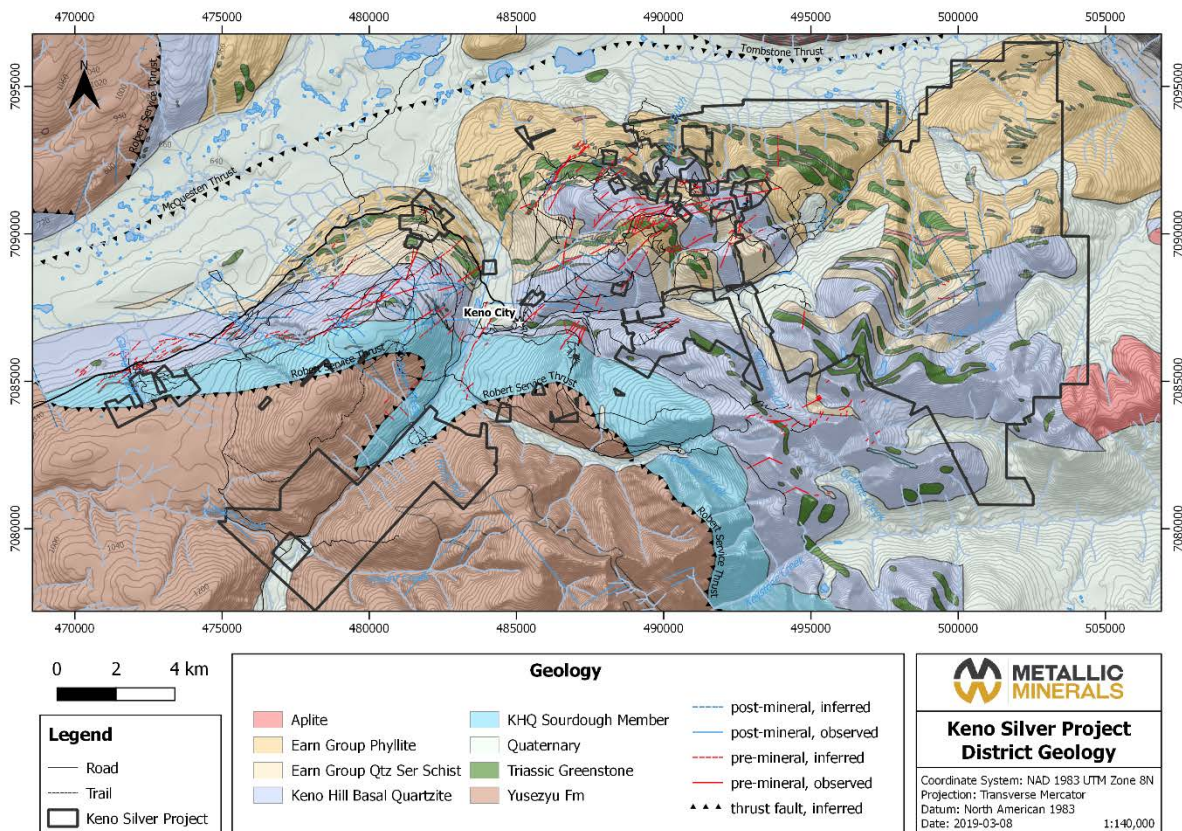


Figure 3. Keno Silver District geology.

The Keno Silver District is located within Neoproterozoic to late-Paleozoic slope-to-basin facies strata of the epicratonic Selwyn Basin. Selwyn Basin strata are characterized by off-shelf deep water clastic rocks (shale, chert, basinal limestone), and are bound by the Mackenzie Platform to the northeast and truncated by the Tintina fault to the southwest (Pigage, 2006).

Northeast directed compression during the Jurassic and early-Cretaceous resulted in thrust faulting, the development of open to tight-similar folds within relatively incompetent Selwyn Basin strata, and greenschist facies metamorphism. Widespread granitic magmatism during the early to mid-Cretaceous led to the formation of at least five main intrusive suits between 112 Ma and 90 Ma and a younger suite at 65 Ma. Strike-slip faulting along the Tintina Fault zone during the late Cretaceous and early-Tertiary displaced the western margin of the Selwyn Basin at least 450 km west into what is now Alaska.

The project is underlain by highly deformed rocks of Mississippian Keno Hill Quartzite and dominantly clastic metasedimentary rocks of the Devono-Mississippian Earn Group, with lesser Mississippian felsic volcanic schist, all of which are intruded by Triassic dolerites (greenstones) and Cretaceous aplite sills and dykes. Deformation of the host rocks, which is characterized by intense foliation, appears to be

related to displacement along the Tombstone thrust fault, located northeast of the property. North- to northeast- and northwest-trending faults are evident throughout the area. Refer to Figure 3.

4.3.2 Mineralization Style

Keno Hill type silver deposits consist of high-grade silver veins typically 1-5 meters width grading from 200 g/t to >5000 g/t Ag, with associated lead and zinc sulphides. The largest individual deposits in the district which range from ten to one-hundred million ounces of contained silver, are associated with northeast trending, southeast dipping fault/vein structures which form major ore shoots in the preferred host rocks: quartzite and greenstone (Cathro, 2006). To date, there are twelve known mineralized trends in the Keno Hill silver district, eight of which continue through the eastern portion of the district, which hosts Metallic Minerals' Keno Silver Project. Lesser explored parts of the district, particularly the eastern portion of the Keno Silver Project, have similar geologic settings and host historic producing mines and mineralized prospects with the potential to host significant new mineral resources.

4.3.3 Property Geology & Lithology

Locally, stratigraphy within the Keno mining camp has been divided into three units; the upper-Proterozoic to lower-Cambrian Hyland Group (Yuseyu Formation), Mississippian Keno Hill Quartzite and Devono-Mississippian Earn Group, often referred to as the Upper Schist, Central Quartzite and Lower Schist packages, respectively.

The Hyland Group comprises graphitic schist and phyllite, thin bedded quartzite, quartz mica-schist, calcareous schist and both minor limestone and quartz-sericite schist. It was thrust over the Keno Hill Quartzite during the Jurassic to early-Cretaceous compression along the Robert Service Thrust.

The Keno Hill Quartzite contains variably bedded quartzite, massive quartzite and minor graphitic phyllite, schist and calcareous-schist; it is divided into two units; the upper Sourdough Member and the lower Basal Quartzite. The latter unit is historically more productive and is thickest at the Homestake claims within the Keno Silver Project. Narrow bands of the Basal Quartzite also underlie the Silver Basin, Caribou, Faith and Duncan prospects.

The Earn Group contains graphitic schist and phyllite, argillite, thin-bedded quartzite, calcareous schist, slate and sericite schist, as well as two bands of bedded quartzite with lesser phyllite and graphitic schist. The stratigraphy principally strikes east-west and dips 20° to 30° south. Metamorphosed diorite and gabbro (colloquially greenstone) sills and lenses are conformable with stratigraphy.

4.3.4 Mineralization Targets

Silver mineralization is the dominant economic target in the district, yet gold +/- silver, tungsten and tin deposits exist at the periphery of some high-grade silver deposits and in areas overlying the Hyland Group rocks. Silver mineralization in the Keno district is representative of clastic metasedimentary hosted silver-lead-zinc enriched polymetallic quartz veins. Typically, mineralization is expressed as quartz-carbonate-sulphide veins, with silver minerals most commonly hosted as inclusions in galena. Wall-rock alteration, which consists of sericitization, silicification and pyritization, is typically of limited extent; <1m width. Regional faults, fault sets, and fractures are an important ore control, and veins are typically associated with second order structure which postdates deformation and metamorphism. Significant deposits are restricted to, and dependant upon, competent lithologies.

Two stages of vein mineralization have been recognized in the district. First stage mineralization included quartz, pyrite +/- arsenopyrite, with trace gold and sulphosalts in vein faults. Second stage mineralization is defined by siderite, galena, sphalerite, pyrite, freibergite and pyrargyrite, typical of deposits within the central Keno Hill district. Silver mineralization is hosted by two sets of vein faults; longitudinal veins striking 035° to 080° and transverse veins striking 000° to 035°. Both sets dip between 50° and 80° to the southeast. Historically, longitudinal veins are the main producers of silver due to their significant strike extent. However, transverse veins, which represent dilatational zones between en-echelon longitudinal faults, often contain small deposits of very high-grade.

Gold mineralization is hosted within quartz-arsenopyrite veins in quartzite and schist and is interpreted to be associated with the emplacement of Cretaceous Tombstone suite granitoid intrusions. This style of mineralization is characteristic of intrusion related gold system and is found elsewhere in the Tintina gold belt. In the overlying Hyland Group, gold mineralization is associated with limey beds, aplite dykes and appears to follow the same northeast trending structures as silver mineralization in the district.

4.4 Work History

1898	Placer gold discovery in Duncan Creek brought prospectors from the Klondike goldfields.
1902	Mayo township established
1903	Argentiferous galena discovered at Silver King and mined 1913-1917.
1918	Argentiferous galena discovered on Keno Hill
1919	Keno Hill Ltd staked claims on Keno Hill. Grades had to be more than 125 oz/t to be economic, cost of horse transport to Mayo the same as to smelters in US.
1920	Keno City established.
1921	Treadwell Yukon Company acquired claims at Sadie Ladue on Keno Hill.
1925	Treadwell established mill at Sadie Ladue. Bulldozers significantly reduced the cost of ore haulage.
1927	Treadwell acquired Lucky Queen high grade mine
1932	All operations suspended during Depression
1934	Treadwell Yukon acquired all the Keno Hill Ltd properties.
1924	Elsa vein discovered on Galena Hill, re-opening of Silver King and discovery of Hector-Calumet and optioned by Treadwell Yukon.
1935	Mill moved to Elsa and mining continued until 1941 when all work ceased, and equipment was sold to US Army for construction of Alaska Highway during World War II. Livingstone Wernecke had led Yukon Treadwell and produced 44 Moz silver with 80% milled at 60 oz/t and 20% hand-sorted at 340 oz/t. 60% of production came from Keno Hill.
1946	Treadwell Yukon assets purchased by Keno Hill Mining Company, later named United Keno Hill Mines (UKHM), and mill began re-operating. Power was generated from coal mine purchased in Carmacks, and transport was improved by the government building the Whitehorse – Mayo road.
1951	New discoveries at Hector-Calumet led to construction of a town and a new mill built at Elsa, with power supplied from a new hydro plant in Mayo. UKHM's success bought new companies to the district and another mill was built at Mackeno near Christal Lake.
1950	Zinc recovery became economic.
1963	New exploration
1970	Discovery of the Husky deposit just as the Hector-Calumet was closing.
1972	Husky Mine commenced production.

- 1977 Economics became uncertain due to fluctuations in silver price, open pit mining commenced unsuccessfully.
- 1982 -1989 Small scale tribute mining continued until UKHM closed.
- 1990 -1998 Dominion Mineral Resources and Sterling Frontier Properties acquired 32% of UKHM, conducted exploration but were unsuccessful in reopening mines; rights reverted to UKHM, but environmental liabilities and site maintenance drove UKHM bankrupt. Federal government inherited assets.
- 2006 Alexco Resource Corp purchased the UKHM property.
- 2010 Metallic Minerals predecessor Monster Mining acquired Keno Hill claims.
- 2017 Exploration & Work History Highlights
- Metallic Minerals added to its land position, nearly tripling its total Keno Hill Silver District holdings to 166 square kilometres.
 - Between May 8th and Sept 7th, 2017 fourteen diamond drill holes (DDH) were drilled on the Keno Silver Project. In addition, ground geophysics (magnetic and VLF), mapping, prospecting, soil and rock sampling and the collection of satellite imagery were completed.

Table 5. Summary of Keno Silver Project 2017 exploration work.

Exploration Work	Target Areas	Specifics
Ground Geophysics	Caribou , Homestake, Silver Queen	129-line km, magnetic and VLF
Satellite Photography	Regional (Keno District)	50 cm/pixel, 1m contours
Soil Sampling	Caribou , Homestake, Divide, Vanguard, Duncan, Bounty, Silver Queen, Vancouver	2149 samples, XRF (n=1208), Lab Assay (n=1653)
Trenching	Caribou , Faith, Homestake, Bounty, Gold Hill	18 trenches totalling 493 m
Diamond Drilling	Caribou , Homestake, Duncan	14 holes totalling 1320 m
RAB Drilling	Homestake	3 holes totalling 61 m

5 Gold Hill Claim

5.1 Local Geology

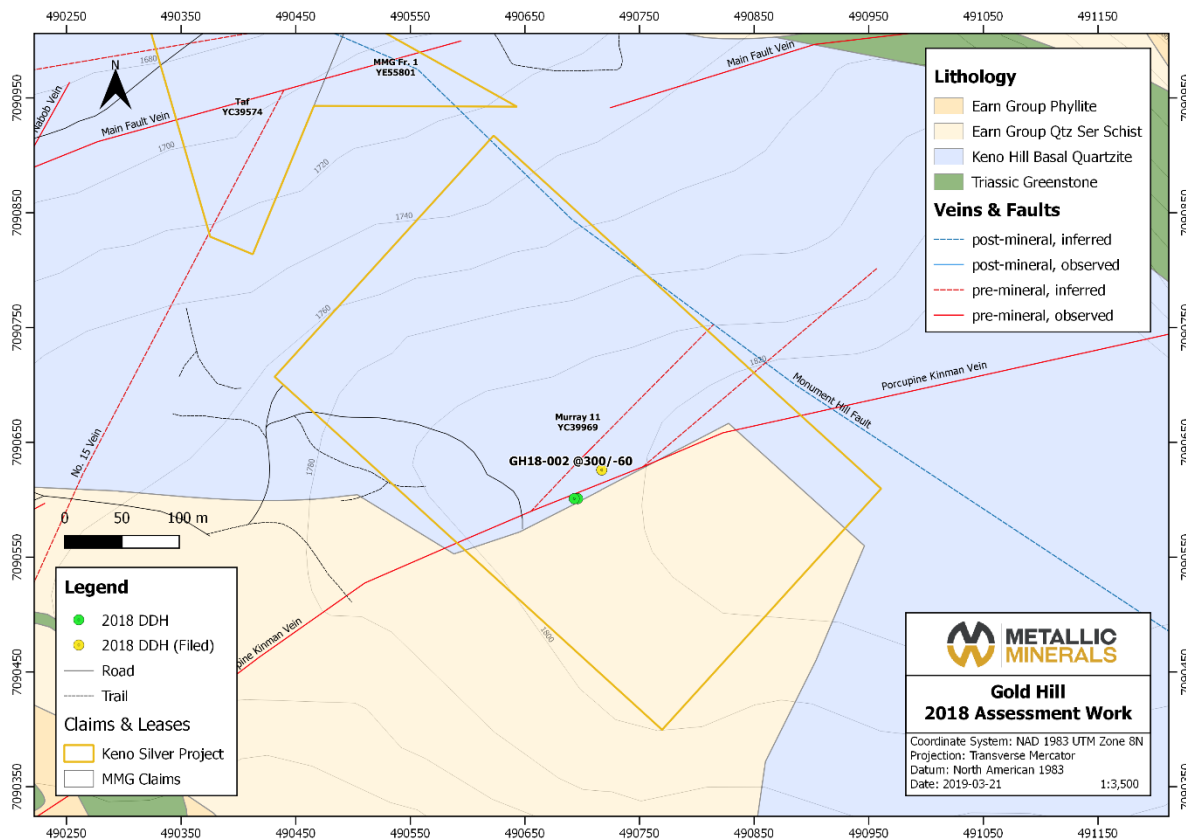


Figure 4. Gold Hill (Murray 11) Claim local geology.

The Murray 11 claim is underlain by Keno Hill Basal Quartzite to the northwest and Earn Group Quartz-Sericite Schist to the southeast. The stratigraphy principally strikes east-west and dips 20° to 30° south. The Porcupine-Kinman Vein transects the claim, roughly approximating the change in lithology. Two inferred splays of the main vein have historically been the focus of trenching and drilling, resulting in the discovery of a discontinuous galena-bearing quartz vein, with an additional meter of mineralized wall-rock breccia.

5.2 Work History

- 1919** Gold Hill claims (Lot 26) was staked by M. Mitchie.
- 1920** Yukon Gold Company secured option on several claims, including the Gold Hill claim (Bostock, 1957).
- 1921** A hand dug trench was located c.2016 on the west-southwest margin of the claim.
- 1971** UKHM performed overburden drilling on Gold Hill and neighbouring claims (13 holes total; 7 on Gold Hill). Evidence of concurrent road building and trenching (not reported).
- Pre-2005** One diamond drill hole casing located c.2016 (not reported).
- 2005** Gold Hill re-staked as Murry 11 by M. Bindig.
- 2016** J.Pautler and B.Harris prospect claim for historic workings; discover aforementioned

2017 hand-trenching and drill casing
Metallic Minerals Corp. conducted machine trenching targeting a geochemical Pb-Zn soil anomaly, resulting in 20m exposure of a discontinuous galena-bearing vein, with an additional meter of weak breccia mineralization on the footwall. A high-grade channel sample returned 2,509 g/t Ag and 68% Pb.

5.3 2018 Assessment Work

The Gold Hill prospect discussed in this report refers to Murray 11 (Grant No. YC39969), a 13 hectare claim currently 100% owned by Metallic Minerals Corp (Figure 4). Between July 1st and July 2nd, 2018, one diamond drill hole (GH18-002) totalling 41m was completed by Boart Longyear, who drilled with a Zinex A5 core drill using HQ core size (Table 6). Other work was completed on the Gold Hill target (Murray 11), however, only a portion of the 2018 drilling is discussed because it is the only work filed for assessment. A Caterpillar 230 excavator and two D7 bulldozers were used to build drill sites and access roads as well as to move the drills. Machine trenching was also conducted on the claim. Equipment was provided on contract from J & B Contracting of Mayo, Yukon. Refer to Appendix III for Drill Logs, and Appendix V for Drill Database.

Table 6. Gold Hill 2018 DDH program specifications.

<i>Hole ID</i>	<i>Start Date</i>	<i>End Date</i>	<i>Duration (days)</i>	<i>Length (m)</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation</i>	<i>Azimuth</i>	<i>Dip</i>
GH18-001	30-06-18	01-07-18	2	45	490717	7090626	1809	330	-60
GH18-002	01-07-18	02-07-18	2	41	490717	7090626	1809	300	-60
GH18-003	02-07-18	04-07-18	3	74	490696	7090601	1806	330	-60
GH18-004	04-07-18	06-07-18	3	35	490693	7090601	1806	300	-50
4 holes			10 days	195 m					

Drill Hole Summary: GH18-002

The 2018 Gold Hill diamond drilling program was designed to test the down-dip continuity of the trenched vein, proposed to be a splay of the Porcupine-Kinman Vein, exposed during the 2017 field season. Holes GH18-001 and -002 were designed to directly test down-dip continuity, whereas holes GH18-003 and -004 were designed to test the southwest extension of the trenched vein, in addition to delineating the geometry of the contact between the overlying Keno Hill Basal Quartzite and the underlying Earn Group Quartz-Sericite Schist.

Hole GH18-002 is composed of alternating FQZ1 and FQZ2. Three structures were intersected, two of which were graphitic fault gouge at 18.7-20.0 m and 31.4-31.45 m down-hole depth. The third structure intersected was a brecciated vein of quartz clasts cemented with limonite and trace amounts of mm-scale sphalerite at 25.8-29.0 m down-hole depth. The strongest mineralization, intercepted at 18.70-20.40 m down-hole depth, was hosted by foliated quartzite returning 17.1 g/t Ag, 0.13 % Pb, 0.19 % Zn and 4.39 % Fe over a 1.70 m interval (Table 7).

It is interpreted that GH18-002 intersected the trenched vein at 18.7 m down-hole depth. The vein is projected to run shallower than previously predicted, due to a smaller extent of mineralization or a change in vein geometry yet to be determined.

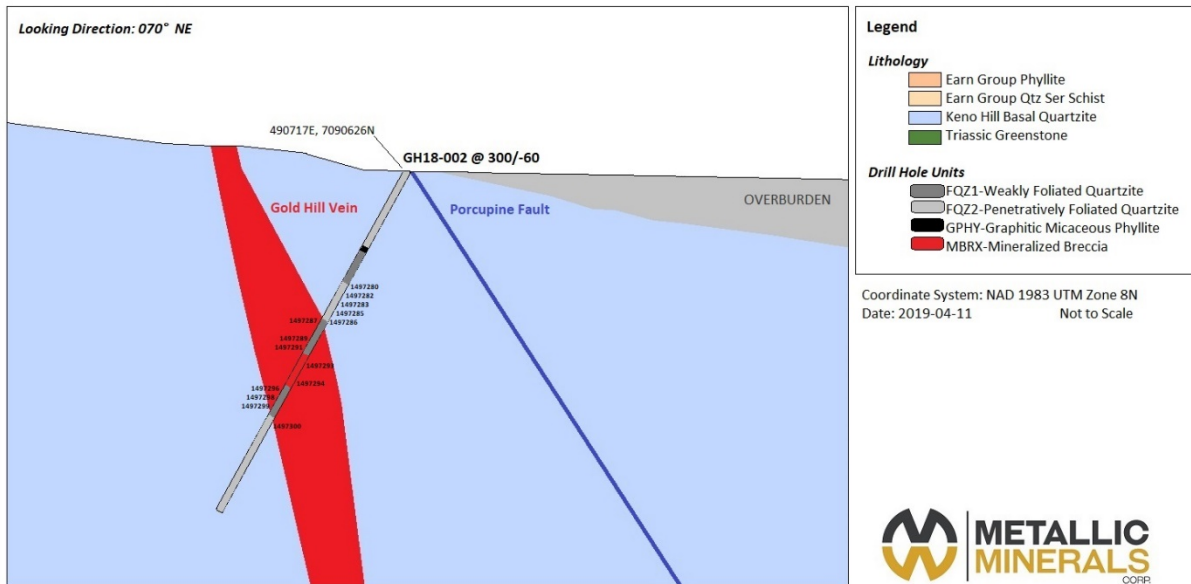


Figure 5. Drill hole GH18-002 cross section.

Table 7. Drill hole GH18-002 geochemical assay results.

Sample ID	From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Pb %	Zn %	Cu %	Mn %	Fe %
1497280	17.90	18.70	0.80	0.00025	0.4	0.00333	0.1761	0.00259	0.3973	3.18
1497282	18.70	20.40	1.70	0.00025	17.1	0.13424	0.1861	0.00291	0.7704	4.39
1497283	20.40	20.80	0.40	0.00025	2.4	0.03471	0.0802	0.00081	0.2112	1.66
1497285	20.80	21.65	0.85	0.00025	4.8	0.04569	0.0482	0.00163	0.0409	2.72
1497286	21.65	22.30	0.65	0.00025	1.2	0.01438	0.0466	0.00036	0.4127	2.22
1497287	22.30	24.20	1.90	0.00050	1.0	0.00909	0.0305	0.00029	0.2424	1.50
1497289	24.20	25.80	1.60	0.00140	0.2	0.00376	0.0659	0.00037	1.0000	5.44
1497291	25.80	27.10	1.30	0.00025	5.0	0.08413	0.0788	0.00101	0.0937	3.10
1497293	27.10	27.60	0.50	0.00025	3.1	0.08936	0.0460	0.00110	0.1433	2.23
1497294	27.60	29.00	1.40	0.00350	2.0	0.05269	0.0425	0.00190	0.0490	2.25
1497296	29.00	31.00	2.00	0.00025	0.4	0.00711	0.0055	0.00060	0.0082	0.97
1497298	31.00	31.45	0.45	0.01800	3.1	0.02851	0.0093	0.00076	0.0054	1.65
1497299	31.45	32.35	0.90	0.00025	1.1	0.00626	0.0200	0.00172	0.0332	1.64
1497300	32.35	33.00	0.65	0.00025	0.2	0.00691	0.1578	0.00807	0.3570	8.50

6 Keno-Lightning Claims Group

6.1 Local Geology

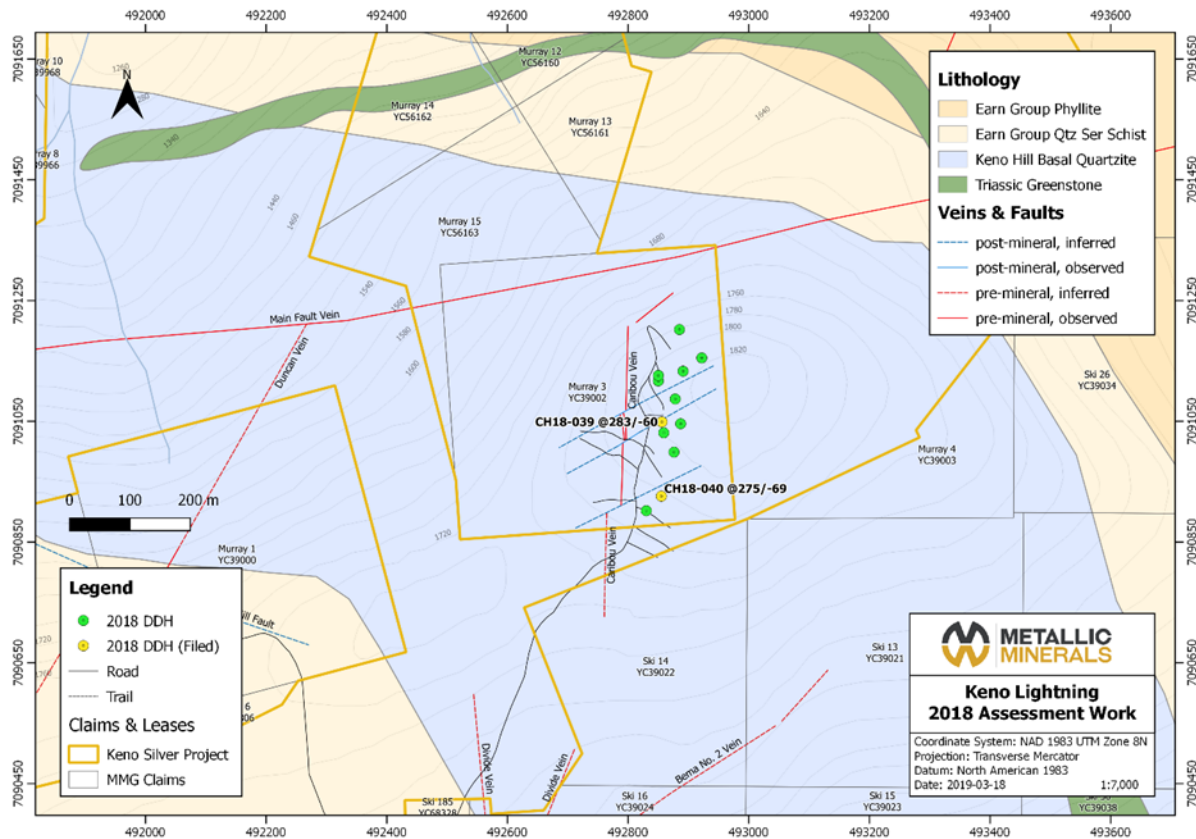


Figure 6. Keno-Lightning (Murray 3) Claim local geology.

The Murray 3 claim is entirely underlain by Mississippian Keno Hill Basal Quartzite, bounded by Earn Group Quartz-Sericite Schist. The stratigraphy hosting the Caribou Vein is oriented on average 139/38° SW, differing from the more common district scale east-west strike which dips 20° to 30° south. The Caribou Vein transects the claim striking north-south, dipping variably to the east and is cross-cut by multiple post-mineralization fault veins striking northeast-southwest.

6.2 Work History

MinFile Occurrence (105M 062) SEGSWORTH aka Caribou Hill

1919	Silver discovered in Keno Hill District; Staked as Caribou (12842) by J. Fawcett
1920	Explored with a 13.7 m adit by Yukon Gold Corp.
1924	Restaked by Fawcett as Caribou (16536)
1926-28	Treadwell Yukon Corp. Ltd. explored with 40.2 m of drifting and mined 78.9 tonnes assaying on average 6102.7 g/t Ag and 70% Pb from an east-trending longitudinal-type vein.
1952	Optioned to United Keno Hill Mines Ltd. which explored with an 8.2 m adit and bulldozer trenching of a transverse vein.
1960	Leased by R.L. Segsworth (40%) and E.H. Barker (60%), no work documented.
1976	Purchased by Conwest, no work documented
1979-80	Canada Tungsten Mg Corp. Ltd. performed mapping and geochemical sampling
1986	Optioned to Dawson Eldorado Mines Ltd. which uncovered a 1.5 m wide vein containing lenses of mineralization assaying up to 8571.2 g/t Ag over 0.3 m
2005-06	Restaked by M. Bindig, along with 120 other claims, who performed prospecting and geochemical soil sampling
2007-08	Optioned to Monster Mining Corp. (formerly Northex Ventures) which performed 646 m of diamond drilling, 504 m of RAB drilling and machine trenching. Highlights of the 2008 diamond drilling include 1.67 m at 239 g/t Ag including 0.32 m at 1036 g/t Ag (08CH005) and 2.96 m of 71.8 g/t Ag (08CH006).
2010	Monster Mining Corp. performed 1201 m of diamond drilling and trench and soil geochemical sampling. Chip samples from trench CH08-01 returned 2.0 m of 2,953 g/t Ag, 1.01 g/t Au and 8.11 % Pb from an oxidized, gossanous breccia zone. A high-grade grab sample returned 4708 g/t Ag, 1.13 g/t Au, 34.1 % Pb and 5.73 % Zn.
2016	Monster Mining Corp. changes name to Metallic Minerals Corp.
2017	Metallic Minerals Corp. performed 747 m of diamond drilling in six holes. Highlights of the 2017 drilling include 1.6 m returning 1,405 Ag g/t, 26% Pb, 3.7% Zn and 0.28 g/t Au (CH017-023). Ground geophysics, trenching and soil geochemical sampling were also performed on the claim.

6.3 2018 Assessment Work

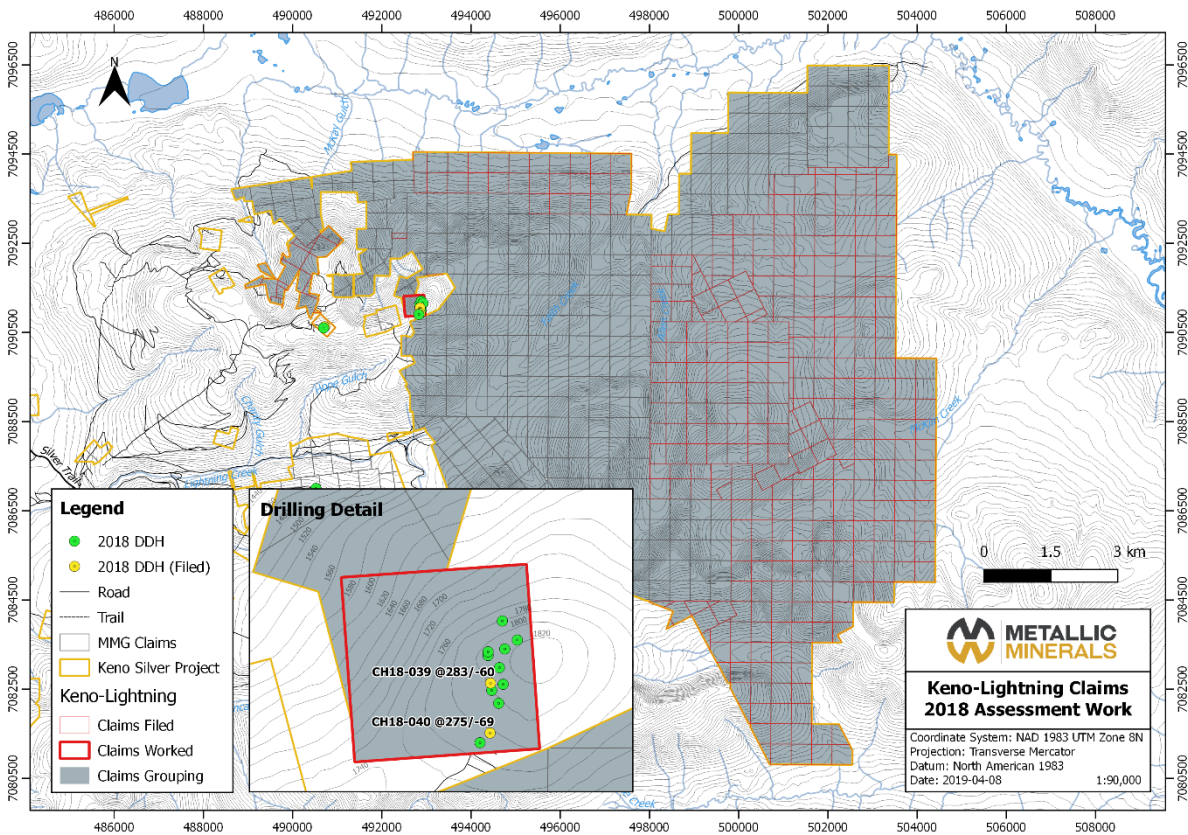


Figure 7. Keno-Lightning claims filed for 2018 Assessment Work.

The Caribou Hill target is part of the Keno-Lightning filing. Between July 28th and August 1st, 2018, two diamond drill holes (CH18-039 & -040) totalling 211m were completed by Boart Longyear, who drilled with a Zinex A5 core drill using HQ core size (Table 8). Other work was completed on the Caribou Hill target (Murray 3) and across the Keno-Lightning filing, however, only a portion of the 2018 drilling is discussed because it is the only work filed for assessment. A Caterpillar 230 excavator and two Caterpillar D7 bulldozers were used to build drill sites and access roads as well as to move the drills. Equipment was provided on contract from J & B Contracting of Mayo, Yukon.

The 2018 Caribou Hill diamond drilling program was designed to test the down-dip continuity of high-grade shoots of the shallow-dipping Caribou Vein identified in 2011. Additionally, the proposed Caribou drilling served as an infill program, aiming to combine previous years drilling results to create a vein intercept pattern on a twenty-meter scale adequate for a NI43-101 compliant inferred resource estimation.

Table 8. Caribou Hill 2018 DDH program specifications.

<i>Hole ID</i>	<i>Start Date</i>	<i>End Date</i>	<i>Duration (days)</i>	<i>Length (m)</i>	<i>Easting</i>	<i>Northing</i>	<i>Elevation</i>	<i>Azimuth</i>	<i>Dip</i>
CH18-029	10-07-18	10-07-18	1	26	492850	7091117	1796	275	-60
CH18-030	11-07-18	12-07-18	2	66	492850	7091117	1796	275	-60
CH18-031	12-07-18	13-07-18	2	54	492850	7091126	1796	312	-75
CH18-032	14-07-18	15-07-18	2	74	492891	7091133	1805	275	-69
CH18-033	16-07-18	18-07-18	3	76	492878	7091087	1794	275	-69
CH18-034	18-07-18	20-07-18	3	68.15	492859	7091031	1778	275	-69
CH18-035	20-07-18	22-07-18	3	86	492887	7091046	1787	275	-69
CH18-036	23-07-18	24-07-18	2	77	492876	7090999	1766	275	-69
CH18-037	24-07-18	26-07-18	3	74	492885	7091202	1807	0	-90
CH18-038	26-07-18	28-07-18	3	98	492922	7091155	1813	275	-69
CH18-039	28-07-18	30-07-18	3	131	492856	7091049	1782	283	-60
CH18-040	30-07-18	01-08-18	3	80	492855	7090926	1752	275	-69
CH18-041	01-08-18	02-08-18	2	47	492830	7090902	1743	275	-69
13 holes			32 days	957.15 m					

Drill Hole Summary: CH18-039

Hole CH18-039 tested the down-dip extension of the Caribou Vein east of holes CH17-026 and -027. Hole CH18-039 is composed of alternating FQZ1 and FQZ2 at 10's meter-scale. Repeating units of graphitic phyllite, at the same scale and relative frequency, are also interpreted to be Keno Hill Basal Quartzite. Five fault structures were delineated by the presence of fissile graphitic fault gouge and slickensides. Two of these fault zones hosted brecciated material at 48.5-50.5 m and 91.15-92.4 m down-hole depth. The strongest mineralization, between 48.5-50.5 m, consists of subangular-quartz clast-supported breccia with a strongly limonitic matrix (healed rock flour due to faulting), grading into heavily oxidized matrix-supported breccia. This 2.0 m interval of breccia returned 136 g/t Ag, 0.54 % Pb, 0.65 % Zn, 1.00 % Mn, and 22.4 % Fe (Table 9).

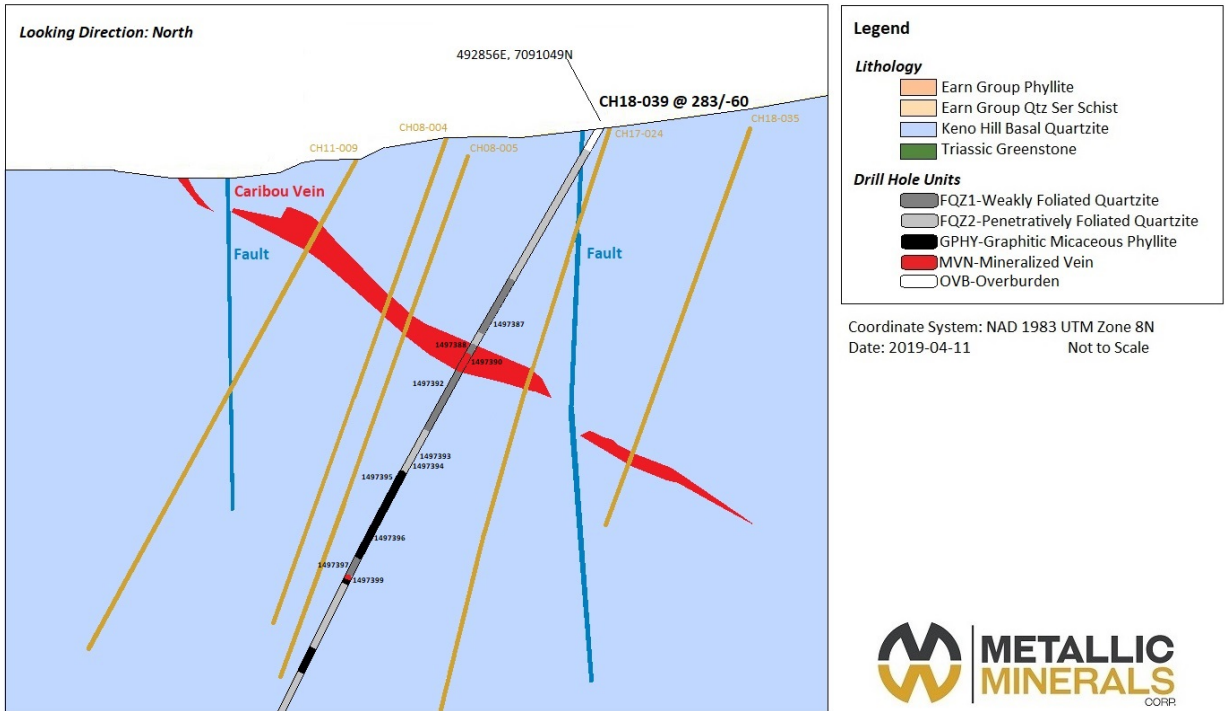


Figure 8. Drill hole CH18-039 cross section.

Table 9. Drill hole CH18-039 geochemical assay results.

Sample ID	From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Pb %	Zn %	Cu %	Mn %	Fe %
1497387	35.40	36.34	0.94	0.00120	0.9	0.00434	0.0088	0.00070	0.0071	2.11
1497388	46.80	48.50	1.70	0.00580	6.2	0.04834	0.2255	0.00195	1.0000	2.80
1497390	48.50	50.50	2.00	0.18620	136.0	0.54052	0.6560	0.01797	1.0000	22.43
1497392	50.50	53.00	2.50	0.02070	20.6	0.03385	0.0068	0.00027	0.0101	0.67
1497393	64.87	66.06	1.19	0.00025	5.3	0.01772	0.0516	0.00451	0.0332	2.81
1497394	66.06	66.85	0.79	0.00025	2.8	0.00572	0.0644	0.00641	0.0767	3.31
1497395	66.85	68.28	1.43	0.00280	1.4	0.00205	0.0571	0.00994	0.0334	3.20
1497396	91.15	92.40	1.25	0.00110	0.7	0.00281	0.1147	0.00615	0.0263	3.80
1497397	98.15	99.22	1.07	0.01500	4.3	0.02820	0.1824	0.01319	0.4448	6.40
1497399	99.22	100.62	1.40	0.00290	4.4	0.01816	0.0994	0.00923	0.2003	2.34

Drill Hole Summary: CH18-040

Hole CH18-040 extended exploration of the Caribou Vein at its southern extent to a down-hole depth of 80 m. Hole CH18-040 is composed of alternating FQZ1 and FQZ2 at 10's meter-scale. Repeating units of graphitic phyllite, at a similar scale and relative frequency, are also interpreted to be Keno Hill Basal Quartzite. Low-grade mineralization was intersected at 43.85-44.50 m down-hole depth within a weakly brecciated zone hosting fine grained euhedral sphalerite (2%) and pyrite (1%) with hematite-rich veinlets. The brecciated material at 43.85 meters returned 183 g/t Ag, 0.69 % Zn, 1.00 % Mn and 11.2 %

Fe over a 0.30 m interval. Continuing down-hole, a 0.35 m interval at 44.15 meters returned 73.3 g/t Ag, 0.21 g/t Au, 1.81 % Pb, 2.45 % Zn, 1.00 % Mn, and 26.4 % Fe (Table 10).

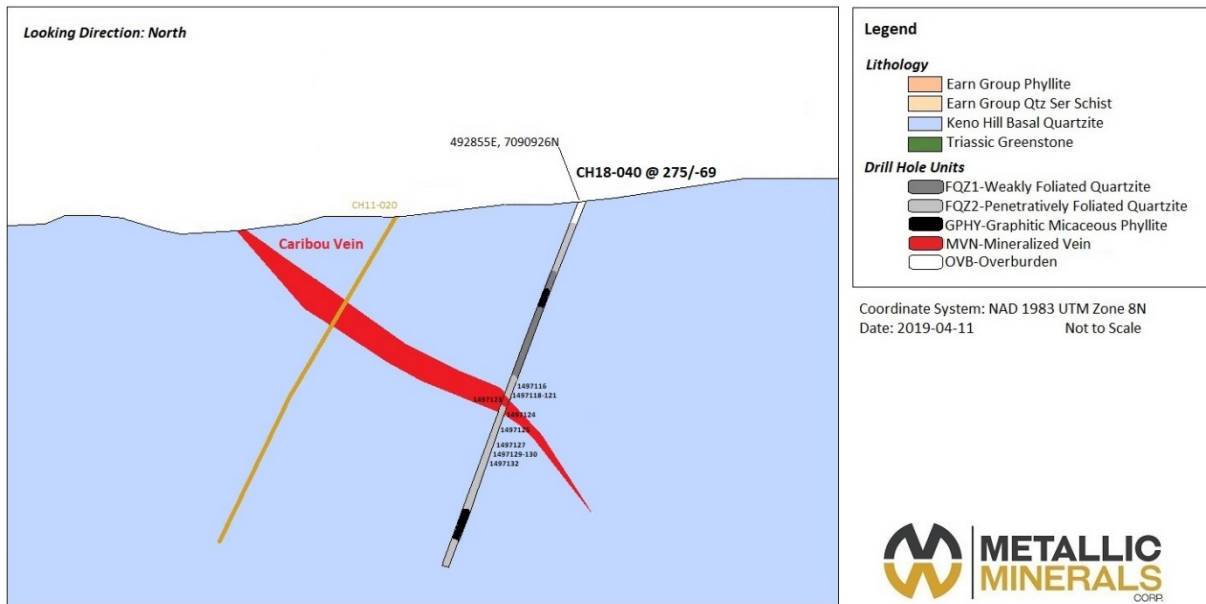


Figure 9. Drill hole CH18-040 cross section.

Table 10. Drill hole CH18-040 geochemical assay results.

Sample ID	From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Pb %	Zn %	Cu %	Mn %	Fe %
1497116	42.10	43.10	1.00	0.00540	7.3	0.11031	0.0233	0.00158	0.0744	1.01
1497118	43.10	43.40	0.30	0.03370	4.2	0.03501	0.0126	0.00047	0.0218	0.64
1497119	43.40	43.85	0.45	0.00190	7.6	0.10339	0.0796	0.00090	0.1216	1.86
1497120	43.85	44.15	0.30	0.07560	183.0	0.16556	0.6877	0.02399	1.0000	11.23
1497121	44.15	44.50	0.35	0.20990	73.3	1.81000	2.4500	0.00500	1.0000	26.35
1497123	44.50	45.50	1.00	0.01170	4.2	0.11339	0.1582	0.00043	0.4253	2.39
1497124	45.50	46.35	0.85	0.02670	23.4	0.43334	0.3311	0.00325	0.9022	3.29
1497125	46.35	55.10	8.75	0.00060	1.5	0.03034	0.0246	0.00057	0.0153	0.94
1497127	55.10	55.40	0.30	0.00400	14.3	0.38751	0.2071	0.00229	1.0000	2.15
1497129	55.40	56.00	0.60	0.00480	5.5	0.26288	0.0422	0.00086	0.5228	1.11
1497130	56.00	56.55	0.55	0.01550	15.8	0.48528	0.8020	0.00251	1.0000	7.57
1497132	56.55	57.30	0.75	0.00025	2.8	0.04545	0.0515	0.00077	0.0403	1.11

7 Data Collection

7.1 Methodology

Drilling was completed with a skid-mounted drill utilizing HQ3 (61.1 mm) diameter core. All drill core was cleaned, photographed and measured for core recovery and RQD. The core was logged and marked by the logging geologist for sampling by sawing or splitting. Sample intervals were chosen based on changes in mineralization, alteration and lithology. All sample batches included commercial standards and limestone blanks which were inserted at the logging geologists' discretion. Each sample was split with one half of the core being sent for analysis and the other half returned to the core box for future reference and/or resampling stored at Homestake in core racks.

7.2 QA/QC & Security

Diamond drill core was transported at the end of each shift to core logging and processing areas located at the Homestake core yard. The core was logged, and select intervals were sawn using a diamond saw, placed with their sample tag into a labeled plastic bag, then sealed and placed into a labeled rice bag for shipment. One half of the sample was submitted for analysis, the other half remains on site. The rice bags were delivered by Annuk Expediting & Logistics to Bureau Veritas' Whitehorse preparation facility where they were crushed and pulped, then sent internally to their Vancouver analytical facility for analysis. Sample security was maintained by Metallic Minerals Corp. and Annuk Expediting & Logistics personnel from the field to the preparation facility in Whitehorse, at which time sample security was assumed by Bureau Veritas. Samples were submitted to the lab with standards, blanks and field duplicates for quality assurance and quality control at the laboratory. Quality control samples were inserted at regular intervals in every hole, and particularly after a vein zone to detect contamination.

A 30g split of each crushed, sieved, and split sample was analyzed for 36 elements using an Aqua Regia digestion with inductively coupled plasma-atomic emission spectroscopy (ICP-AES) and inductively coupled Plasma-mass spectrometry (ICP-MS) (AQ202). Samples with over limit silver (> 100 ppm Ag) and gold (>500 ppb Au) were re-analyzed using a 30-gram fire assay fusion with a gravimetric finish (FA530-Ag, Au). Over-limit lead and zinc samples were analyzed by multi-acid digestion and atomic absorption spectrometry (MA404) or titration (GC516, GC8917). Laboratory-inserted blanks (analytical and method), standards and duplicates (pulp and preparation) verify internal quality assurance and quality control procedures.

8 Interpretations & Conclusions

8.1 Gold Hill Claim

The Gold Hill target is interpreted as a splay of the Porcupine-Kinman Vein. It is interpreted that drill hole GH18-002 intersected the splay at 18.7 m down-hole depth. The vein is projected to run shallower than previously predicted, due to a smaller extent of mineralization or a change in vein geometry yet to be determined.

8.2 Keno-Lightning Claims Group

The Caribou target is interpreted as a Keno-type high-grade system with sporadic bonanza grades. Drill holes CH18-039 and CH18-040 reinforced the interpretation that the vein system remains open at depth, and along strike in both north and south directions.

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- Yukon Geological Survey (2011): SEGSWORTH (105M 062) Minfile Occurrence. Yukon Geological Survey's Integrated Data System (YGSIDS), 2019.

10 Statement of Qualifications

I, Paige Ahrens, of the City of Montreal, in the Province of Quebec, HEREBY CERTIFY:

1. I am a geologist based out of Montreal, QC.
2. I am a graduate of Carleton University (B.Sc. Hons Earth Sciences, 2016).
3. I have worked in the field of geology and mineral exploration in Canada (Yukon Territory and Quebec) full-time since 2018.
4. I am an employee of Metallic Minerals Corp. (2018-present).
5. I consent to the use of this report by Metallic Minerals Corp. for application, assessment and/or regulatory and financing purposes deemed necessary.

Dated at Montreal, Quebec this 12th day of April 2019.



Paige Ahrens, B.Sc.

Metallic Minerals Corp.

2256 Ave du Mont Royal Est.

Montreal, QC, H2H 1K6

Appendix I. Statement of Expenditures

Table A1. Statement of 2018 expenditures applied to the Gold Hill claim.

<i>Expenditure</i>	<i>Rate</i>	<i>Count</i>	<i>Total Cost</i>
Labour			
Geologist (core logging, drill supervision)	\$500.00	2	\$1,000.00
Drilling			
Boart Longyear- Invoice 11681 (GH18-002)	Invoice	1	\$9,979.28
Reporting			
Geologist	\$500.00	2	\$1,000.00
Cost of Program			\$11,979.28

Table A2. Statement of 2018 expenditures applied to the Keno-Lightning claims.

<i>Expenditure</i>	<i>Rate</i>	<i>Count</i>	<i>Total Cost</i>
Drilling			
Boart Longyear - Invoice 11903 (CH18-039)	Invoice	1	\$27,363.69
Boart Longyear - Invoice 11903 (CH18-040)	Invoice	1	\$14,891.20
Reporting			
Geologist	\$500.00	3	\$1,500.00
Cost of Program			\$43,754.89

Table A3. Keno-Lightning Cost of Filing- Late Fees.

<i>Claim Name(s)</i>	<i>Grant No.(s)</i>	<i>Ownership</i>	<i>No. of Claims</i>	<i>Months Late</i>	<i>Late Fee/ Claim</i>	<i>Total Late Fees</i>
Gram 1-24	YC52446-469	MMG-100%	24	>3	\$25.00	\$600.00
Gram 25-42	YC68104-121	MMG-100%	18	>3	\$25.00	\$450.00
Isabel	59029	MMG-100%	1	>3	\$25.00	\$25.00
Isabel 2	62326	MMG-100%	1	>3	\$25.00	\$25.00
Isabel 3-4	62993-94	MMG-100%	2	>3	\$25.00	\$50.00
Livi 1-11	YE55981-991	MMG-100%	11	>3	\$25.00	\$275.00
Livi 12-211	YF57312-511	MMG-100%	200	>3	\$25.00	\$5,000.00
Livi 212-227	YE10712-727	MMG-100%	16	>3	\$25.00	\$400.00
Livi 236-239	YE10736-739	MMG-100%	4	>3	\$25.00	\$100.00
M 41-44	YE41541544	MMG-100%	4	>3	\$25.00	\$100.00
M 53-72	YE41553-572	MMG-100%	20	>3	\$25.00	\$500.00
M 75-88	YE41575-588	MMG-100%	14	>3	\$25.00	\$350.00
M Fr. 45-51	YE41545-551	MMG-100%	7	>3	\$25.00	\$175.00
MMG 11	YE55811	MMG-100%	1	<3	\$15.00	\$15.00
MMG 154-180	YE55954-980	MMG-100%	27	<3	\$15.00	\$405.00
MMG 3-4	YE55803-804	MMG-100%	2	<3	\$15.00	\$30.00
MMG 7	YE55807	MMG-100%	1	<3	\$15.00	\$15.00
MMG Fr. 1-2	YE55801-802	MMG-100%	2	<3	\$15.00	\$30.00
Taf	YC39574	MMG-100%	1	>3	\$25.00	\$25.00
TEACH 1-9	YE70944-952	MMG-100%	9	>3	\$25.00	\$225.00
Union	12811	MMG-100%	1	>3	\$25.00	\$25.00
			366			\$8,820.00

Appendix II. Batch Sheets & Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel
Receiving Lab: Canada-Whitehorse
Received: July 27, 2018
Report Date: September 06, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000485.1

CLIENT JOB INFORMATION

Project: Keno Silver
Shipment ID: KS18-5
P.O. Number: Keno Silver
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Metallic Minerals Corp.
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2
Canada


CC: Debbie James
Samantha Dyck

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	19	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
AQ202	22	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	22	Per sample shipping charges for branch shipments			VAN
MA404	3	4 Acid Digest AAS Finish Vancouver	0.5	Completed	VAN

ADDITIONAL COMMENTS

Certificate edited to only include analytical results from drill hole GH18-002
GH18-002 Sample ID: 1497280-1497300


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Project: Keno Silver
Report Date: September 06, 2018

Page: 3 of 3

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000485.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
1497296	Drill Core	4.08	0.4	6.0	71.1	55	0.4	1.7	0.3	82	0.97	296.8	<0.5	3.3	10	1.0	2.8	<0.1	3	0.01	0.021
1497297	Rock Pulp	0.08	7.8	1846.3	>10000	>10000	62.7	15.9	17.8	1442	4.12	58.6	78.9	2.4	81	117.8	167.8	5.5	73	1.84	0.052
1497298	Drill Core	1.65	0.4	7.6	285.1	93	3.1	1.8	0.5	54	1.65	198.6	18.0	3.0	13	0.9	4.8	0.3	3	0.05	0.019
1497299	Drill Core	3.19	0.5	17.2	62.6	200	1.1	10.2	2.2	332	1.64	125.6	<0.5	5.9	15	2.9	4.5	0.1	5	0.03	0.036
1497300	Drill Core	2.13	0.3	80.7	69.1	1578	0.2	101.7	34.9	3570	8.50	54.5	<0.5	2.0	19	18.2	1.3	<0.1	130	0.05	0.061



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Project: Keno Silver
Report Date: September 06, 2018

Page: 3 of 3

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000485.1

Method	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404	MA404
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.01	0.1	0.05	1	0.5	0.2	0.01	0.01	
1497296	Drill Core	7	5	<0.01	32	<0.001	2	0.14	0.006	0.08	<0.1	<0.01	0.4	0.1	<0.05	<1	<0.5	<0.2		
1497297	Rock Pulp	7	24	1.25	101	0.119	2	1.52	0.181	0.20	1.0	0.51	3.2	1.0	1.57	5	3.6	0.2	1.36	1.56
1497298	Drill Core	6	5	<0.01	72	0.001	1	0.14	0.011	0.24	0.1	0.05	0.6	0.1	0.34	<1	0.9	<0.2		
1497299	Drill Core	8	7	<0.01	49	<0.001	2	0.24	0.018	0.14	0.1	0.01	1.0	0.2	0.14	<1	<0.5	<0.2		
1497300	Drill Core	4	162	2.40	41	0.011	2	3.93	0.025	0.09	<0.1	<0.01	14.6	0.1	<0.05	9	<0.5	<0.2		



Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Metallic Minerals Corp.
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Project: Keno Silver
Report Date: September 06, 2018

Page: 1 of 1 Part: 1 of 2

QUALITY CONTROL REPORT

WHI18000485.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
[REDACTED]																					
[REDACTED]																					
[REDACTED]																					
1497280	Drill Core	3.06	0.7	25.9	33.3	1761	0.4	53.7	16.7	3973	3.18	19.5	<0.5	6.5	53	3.7	6.3	0.2	8	1.31	0.131
REP 1497280	QC		0.7	25.1	33.5	1768	0.4	53.1	16.9	3948	3.14	20.0	<0.5	6.6	51	3.8	6.3	0.2	8	1.31	0.138
Core Reject Duplicates																					
1497296	Drill Core	4.08	0.4	6.0	71.1	55	0.4	1.7	0.3	82	0.97	296.8	<0.5	3.3	10	1.0	2.8	<0.1	3	0.01	0.021
DUP 1497296	QC		0.3	5.7	73.8	56	0.4	1.4	0.4	65	0.92	320.1	<0.5	3.6	10	0.9	2.9	<0.1	3	0.01	0.022
Reference Materials																					
STD DS11	Standard		14.1	153.7	139.8	349	1.8	83.2	13.4	1045	3.24	44.5	79.2	7.7	75	2.0	8.9	12.7	51	1.07	0.071
STD OREAS134B	Standard																				
STD OREAS133A	Standard																				
STD OXC129	Standard		1.4	25.9	6.4	40	<0.1	80.0	19.2	427	3.13	<0.5	204.3	1.8	203	<0.1	<0.1	<0.1	52	0.68	0.098
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS134B Expected																					
STD OREAS133A Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.0	5.1	1.4	36	<0.1	0.8	3.5	560	1.96	1.4	1.6	2.3	28	<0.1	<0.1	<0.1	24	0.72	0.041
ROCK-WHI	Prep Blank		1.1	5.3	1.3	33	<0.1	1.2	4.3	565	2.09	1.4	0.7	2.3	29	<0.1	<0.1	<0.1	31	0.78	0.037



QUALITY CONTROL REPORT

WHI18000485.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	0.01	
1497280	Drill Core	8	9	0.35	69	0.002	3	0.43	0.017	0.17	<0.1	0.02	2.0	0.2	0.11	<1	0.7	<0.2		
REP 1497280	QC	8	9	0.34	72	0.002	4	0.42	0.017	0.16	<0.1	0.01	1.8	0.2	0.11	1	1.5	<0.2		
Core Reject Duplicates																			1.38	1.58
1497296	Drill Core	7	5	<0.01	32	<0.001	2	0.14	0.006	0.08	<0.1	<0.01	0.4	0.1	<0.05	<1	<0.5	<0.2		
DUP 1497296	QC	6	4	<0.01	28	<0.001	1	0.13	0.005	0.07	<0.1	0.01	0.4	0.1	<0.05	<1	<0.5	<0.2		
Reference Materials																				
STD DS11	Standard	19	61	0.86	368	0.093	6	1.17	0.077	0.40	2.9	0.27	3.3	5.1	0.29	5	1.2	5.4		
STD OREAS134B	Standard																		13.57	17.76
STD OREAS133A	Standard																		4.97	10.77
STD OXC129	Standard	12	51	1.53	49	0.384	<1	1.55	0.597	0.37	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2		
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5				
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56		
STD OREAS134B Expected																			13.36	18.03
STD OREAS133A Expected																			4.9	10.87
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																		<0.01	<0.01
Prep Wash																				
ROCK-WHI	Prep Blank	7	4	0.43	68	0.072	2	0.98	0.113	0.11	0.1	<0.01	3.1	<0.1	0.05	4	<0.5	<0.2		
ROCK-WHI	Prep Blank	6	4	0.50	72	0.081	2	1.00	0.105	0.10	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2		



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel
Receiving Lab: Canada-Whitehorse
Received: November 30, 2018
Report Date: December 31, 2018
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI18001158.1

CLIENT JOB INFORMATION

Project: Keno Silver
Shipment ID: KS18-15
P.O. Number: Keno Silver
Number of Samples: 178

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	163	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	15	Sort, label and box pulps			WHI
AQ202	178	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	178	Per sample shipping charges for branch shipments			VAN
FA530-Ag	18	Lead collection fire assay fusion - Grav finish	30	Completed	VAN
EN002	19	Environmental disposal charge-Fire assay lead waste			VAN
MA404	18	4 Acid Digest AAS Finish Vancouver	0.5	Completed	VAN

ADDITIONAL COMMENTS

Certificate edited to only include analytical results from drill holes CH18-039 and CH18-040
CH18-039 Sample ID: 1497387-1497399
CH18-040 Sample ID: 1497116-1497132

Invoice To: Metallic Minerals Corp.
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2
Canada

CC: Debbie James
Samantha Dyck



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Project: Keno Silver
Report Date: December 31, 2018

Page: 2 of 4

Part: 1 of 3

QUALITY CONTROL REPORT

WHI18001158.1

		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
STD DS11	Standard		14.8	142.8	131.5	314	1.8	76.1	14.2	1051	3.21	43.6	80.9	7.9	70	2.4	7.6	12.8	50	1.08	0.068	
STD DS11	Standard		15.5	148.3	141.3	340	1.7	80.0	14.0	1056	3.20	47.1	75.6	8.0	72	2.7	7.8	11.8	51	1.09	0.076	
STD DS11	Standard		14.6	148.6	139.1	342	1.7	79.2	13.7	1028	3.15	44.4	83.1	8.0	67	2.4	7.1	11.5	50	1.06	0.074	
STD DS11	Standard		15.3	153.4	148.4	346	1.8	82.0	13.8	1058	3.23	45.6	73.1	8.0	73	2.3	8.1	13.2	50	1.08	0.075	
STD DS11	Standard		14.6	148.3	139.0	350	1.8	77.7	13.5	1033	3.16	44.1	81.4	8.2	70	2.3	7.4	11.1	50	1.07	0.071	
STD DS11	Standard		15.3	153.3	150.2	345	1.9	82.6	13.9	1068	3.29	47.0	81.2	8.1	74	2.6	8.0	12.7	46	1.09	0.070	
STD DS11	Standard		14.0	146.7	139.7	330	1.7	79.5	13.0	993	3.13	46.6	59.4	7.6	66	2.3	7.7	11.0	51	1.06	0.067	
STD DS11	Standard		14.4	154.7	143.4	343	1.7	79.2	13.9	991	3.22	43.6	73.9	8.2	68	2.7	7.8	12.5	45	1.03	0.079	
STD DS11	Standard		14.0	151.7	131.0	325	1.7	78.6	13.8	1026	3.11	42.5	74.6	7.7	67	2.3	8.0	11.5	47	1.05	0.071	
STD OREAS134B	Standard																					
STD OREAS133A	Standard																					
STD OREAS134B	Standard																					
STD OREAS133A	Standard																					
STD OREAS262	Standard		0.7	120.8	57.1	151	0.5	62.1	26.7	526	3.23	36.9	56.4	9.2	34	0.6	3.6	0.9	21	2.97	0.035	
STD OREAS262	Standard		0.6	118.6	56.3	157	0.5	64.3	27.7	543	3.32	36.9	57.7	9.7	36	0.7	3.5	1.0	23	2.95	0.041	
STD OREAS262	Standard		0.6	115.3	57.9	150	0.5	64.3	27.1	535	3.31	36.8	57.0	9.5	36	0.6	3.4	1.0	22	2.95	0.042	
STD OREAS262	Standard		0.6	114.7	57.8	152	0.4	61.6	26.7	532	3.32	36.3	54.5	9.4	35	0.6	3.2	1.0	22	2.96	0.039	
STD OREAS262	Standard		0.6	115.5	58.0	148	0.5	63.0	27.0	537	3.28	36.3	55.0	9.5	35	0.7	3.6	1.0	22	2.93	0.039	
STD OREAS262	Standard		0.6	120.2	56.5	154	0.5	64.7	26.7	538	3.41	36.9	53.5	8.9	37	0.6	3.5	1.0	21	3.00	0.040	
STD OREAS262	Standard		0.6	110.1	58.5	147	0.5	60.0	25.6	505	3.14	33.7	65.8	9.3	34	0.6	3.7	0.9	23	2.86	0.038	
STD OREAS262	Standard		0.6	119.3	60.2	147	0.4	63.7	26.8	511	3.35	35.6	48.9	9.6	35	0.7	3.6	1.1	21	2.87	0.041	
STD OREAS262	Standard		0.6	123.4	57.9	147	0.5	63.3	27.1	520	3.19	35.4	58.8	9.1	35	0.6	4.5	1.1	22	3.02	0.039	
STD OXC129	Standard		1.2	27.5	6.7	41	<0.1	75.0	20.8	411	3.04	1.1	203.6	1.8	207	<0.1	<0.1	<0.1	52	0.74	0.093	
STD OXC129	Standard		1.1	27.5	6.6	39	<0.1	80.4	20.8	428	3.10	0.8	185.8	1.8	196	<0.1	<0.1	<0.1	52	0.72	0.105	
STD OXC129	Standard		1.4	26.0	6.1	39	<0.1	79.7	20.1	416	3.06	0.7	197.2	1.8	187	<0.1	<0.1	<0.1	54	0.71	0.100	
STD OXC129	Standard		1.3	26.2	6.2	38	<0.1	80.4	19.6	417	3.07	<0.5	187.8	1.8	197	<0.1	<0.1	<0.1	52	0.70	0.100	
STD OXC129	Standard		1.4	27.2	6.3	43	<0.1	80.3	20.1	412	3.11	1.0	209.5	1.9	198	<0.1	<0.1	<0.1	52	0.69	0.096	
STD OXC129	Standard		1.3	26.6	6.1	40	<0.1	81.1	20.0	412	3.14	0.6	180.5	1.6	197	<0.1	<0.1	<0.1	48	0.69	0.097	
STD OXC129	Standard		1.3	25.4	7.7	38	<0.1	77.4	19.2	390	2.96	<0.5	179.3	1.8	181	<0.1	0.2	<0.1	51	0.73	0.094	



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Project: Keno Silver
Report Date: December 31, 2018

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QUALITY CONTROL REPORT

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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	FA530	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	Cu	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	20	0.01	0.01
STD DS11	Standard	19	59	0.85	363	0.095	8	1.23	0.078	0.41	3.0	0.26	3.5	4.8	0.29	5	2.6	4.9			
STD DS11	Standard	20	61	0.86	398	0.102	9	1.24	0.078	0.41	3.1	0.28	3.6	5.0	0.29	5	2.2	4.4			
STD DS11	Standard	18	58	0.84	361	0.096	6	1.18	0.074	0.40	2.8	0.28	3.5	4.8	0.29	5	2.4	4.4			
STD DS11	Standard	18	58	0.86	385	0.095	5	1.18	0.074	0.41	3.2	0.25	3.3	5.3	0.30	5	2.2	4.7			
STD DS11	Standard	20	60	0.85	369	0.097	6	1.21	0.077	0.41	2.8	0.27	3.3	4.9	0.29	5	2.3	4.4			
STD DS11	Standard	19	61	0.85	388	0.098	7	1.18	0.074	0.41	3.0	0.31	3.5	5.0	0.29	5	2.2	4.9			
STD DS11	Standard	19	59	0.84	362	0.095	7	1.20	0.076	0.41	2.8	0.24	3.3	4.8	0.29	5	1.9	4.8			
STD DS11	Standard	20	60	0.83	367	0.097	7	1.16	0.074	0.40	2.9	0.30	3.2	4.9	0.28	5	2.0	4.6			
STD DS11	Standard	19	59	0.84	352	0.095	7	1.19	0.075	0.40	2.7	0.27	3.3	4.7	0.27	5	2.1	4.3			
STD OREAS134B	Standard																			0.12	13.22
STD OREAS133A	Standard																			0.03	4.98
STD OREAS134B	Standard																			0.13	13.29
STD OREAS133A	Standard																			0.03	4.95
STD OREAS262	Standard	16	43	1.16	245	0.003	4	1.33	0.071	0.31	0.2	0.16	3.4	0.4	0.28	3	0.7	<0.2			
STD OREAS262	Standard	18	44	1.18	249	0.003	6	1.43	0.071	0.34	0.2	0.16	3.5	0.5	0.28	4	<0.5	0.2			
STD OREAS262	Standard	17	43	1.17	253	0.003	4	1.37	0.072	0.31	0.2	0.16	3.5	0.4	0.27	4	<0.5	0.2			
STD OREAS262	Standard	16	44	1.18	246	0.003	4	1.37	0.070	0.32	0.1	0.16	3.3	0.4	0.28	4	0.6	0.2			
STD OREAS262	Standard	18	43	1.18	260	0.003	4	1.41	0.070	0.33	0.2	0.17	3.7	0.4	0.27	4	0.7	0.2			
STD OREAS262	Standard	17	44	1.17	254	0.003	4	1.35	0.070	0.31	0.2	0.16	3.3	0.5	0.27	4	0.6	0.2			
STD OREAS262	Standard	18	44	1.15	243	0.003	2	1.44	0.066	0.35	0.1	0.14	3.5	0.4	0.26	4	<0.5	<0.2			
STD OREAS262	Standard	16	43	1.15	248	0.003	4	1.29	0.071	0.30	0.2	0.17	3.2	0.4	0.27	4	<0.5	0.2			
STD OREAS262	Standard	17	44	1.16	247	0.003	4	1.36	0.068	0.31	0.2	0.18	3.3	0.5	0.25	4	<0.5	0.2			
STD OXC129	Standard	12	53	1.55	52	0.388	<1	1.65	0.600	0.37	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	12	53	1.58	51	0.404	2	1.62	0.599	0.37	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	12	52	1.55	51	0.399	<1	1.62	0.596	0.36	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	12	49	1.57	50	0.392	1	1.60	0.592	0.36	<0.1	<0.01	0.7	0.2	<0.05	5	<0.5	<0.2			
STD OXC129	Standard	12	54	1.58	52	0.410	<1	1.65	0.609	0.37	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	12	53	1.56	51	0.405	<1	1.59	0.589	0.36	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2			
STD OXC129	Standard	11	50	1.50	48	0.363	<1	1.59	0.605	0.37	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2			



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QUALITY CONTROL REPORT

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		MA404 Zn % 0.01
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD OREAS134B	Standard	17.42
STD OREAS133A	Standard	11.07
STD OREAS134B	Standard	17.54
STD OREAS133A	Standard	10.65
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	
STD OXC129	Standard	



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QUALITY CONTROL REPORT

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		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
STD OXQ114	Standard																					
STD OXQ114	Standard																					
STD OXQ114	Standard																					
STD SP49	Standard																					
STD SP49	Standard																					
STD SP49	Standard																					
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	
STD OREAS134B Expected																						
STD OREAS133A Expected																						
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	72	9.33	36	0.61	5.06	0.98	22.5	2.98	0.04	
STD AGPROOF Expected																						
STD SP49 Expected																						
STD OXQ114 Expected																						
BLK	Blank		<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	0.1	0.2	1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.001	
BLK	Blank		<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.001	
BLK	Blank																					
BLK	Blank																					
Prep Wash																						



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QUALITY CONTROL REPORT

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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	FA530	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	Cu	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	20	0.01	0.01
STD OXQ114	Standard																		142		
STD OXQ114	Standard																		121		
STD OXQ114	Standard																		125		
STD SP49	Standard																		66		
STD SP49	Standard																		57		
STD SP49	Standard																		59		
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1		5.5						
STD OREAS134B Expected																			0.1348	13.36	
STD OREAS133A Expected																			0.0323	4.9	
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56			
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.295	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23			
STD AGPROOF Expected																			94		
STD SP49 Expected																			60.2		
STD OXQ114 Expected																			127.1		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<20		
BLK	Blank																		<0.01	<0.01	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.01	<0.01	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<20		
BLK	Blank																		<20		
Prep Wash																					



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QUALITY CONTROL REPORT

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		MA404 Zn % 0.01
STD OXQ114	Standard	
STD OXQ114	Standard	
STD OXQ114	Standard	
STD SP49	Standard	
STD SP49	Standard	
STD SP49	Standard	
STD OXC129 Expected		
STD OREAS134B Expected		18.03
STD OREAS133A Expected		10.87
STD DS11 Expected		
STD OREAS262 Expected		
STD AGPROOF Expected		
STD SP49 Expected		
STD OXQ114 Expected		
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	<0.01
BLK	Blank	
BLK	Blank	<0.01
BLK	Blank	
BLK	Blank	
BLK	Blank	
Prep Wash		



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QUALITY CONTROL REPORT

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		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
ROCK-WHI	Prep Blank		0.9	6.9	20.2	36	0.5	1.2	4.0	514	1.83	2.4	2.4	2.3	28	<0.1	0.9	<0.1	24	0.74	0.043
ROCK-WHI	Prep Blank		2.2	6.7	20.2	31	0.4	1.7	4.4	474	1.79	2.3	17.6	2.3	26	<0.1	0.8	<0.1	23	0.71	0.042



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QUALITY CONTROL REPORT

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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	FA530	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	Cu	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	20	0.01	0.01
ROCK-WHI	Prep Blank	6	3	0.45	66	0.082	2	1.05	0.099	0.10	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2			
ROCK-WHI	Prep Blank	7	3	0.45	58	0.072	2	1.02	0.118	0.11	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2			



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		MA404 Zn % 0.01
ROCK-WHI	Prep Blank	
ROCK-WHI	Prep Blank	

Appendix III. Drill Logs

Project: Keno-Lightning

Hole: GH18-002

Prospect:	Gold Hill	Survey Type:		Logged By:	B Penner	Hole Type:	DDH
UTM Grid:	NAD83_Z8	Survey By:		Log Started:	2018-07-08	Hole Diameter:	9.6
UTM East:	490717	Final Surveyed Coords?:	<input type="checkbox"/>	Log Completed:	2018-07-09	Core Size:	HQ
UTM North:	7090626	Length (m):	41	Drill Company:	Boart LY	Casing Pulled?:	<input type="checkbox"/>
UTM Elevation (m):	-1			Drill Rig:		Casing Depth (m):	
Azimuth:	300			Drill Started:		Reduced Core Size:	
Dip:	-60	Comments:		Drill Completed:		Reduced Depth (m):	

Depth (m)	Survey Method	Survey By	Date Surveyed	Dip	Measured Azimuth	Declination	Corrected Azimuth	Mag. Field	Accept Values?	Comments
9	REFLXEZ		2018-07-02	-60.6	281.8	21.5	303.3	5803	<input checked="" type="checkbox"/>	
25	REFLXEZ		2018-07-02	-60.2	296.5	21.5	318	3956	<input checked="" type="checkbox"/>	

Hole: GH18-002

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
4.20	13.00	FQZ2 Penetratively foliated quartzite									
13.00	13.90	GPHY Graphitic micaceous phyllite									
13.90	17.00	FQZ1 Weakly foliated quartzite									
17.00	22.30	FQZ2 Penetratively foliated quartzite	17.90	18.70	0.80	1497280	0.4	0.00333	0.1761	0.00259	10.3154
<<Vein: 21.65 - 22.1: 40% Quartz-Iron oxide>>											
<<Struc: 18.7 - 20: moderate Gouge>>											
			18.70	20.40	1.70	1497282	17.1	0.13424	0.1861	0.00291	33.7602
			20.40	20.80	0.40	1497283	2.4	0.03471	0.0802	0.00081	8.4476
			20.80	21.65	0.85	1497285	4.8	0.04569	0.0482	0.00163	9.7476
			21.65	22.30	0.65	1497286	1.2	0.01438	0.0466	0.00036	4.4362
22.30	25.80	FQZ1 Weakly foliated quartzite									
			22.30	24.20	1.90	1497287	1	0.00909	0.0305	0.00029	3.1356
			24.20	25.80	1.60	1497289	0.2	0.00376	0.0659	0.00037	4.0605
25.80	29.00	MBRX Mineralized breccia									
<<Min: 25.8 - 29: 0.1% sphalerite / 5% Limonite and hematite>>											
			25.80	27.10	1.30	1497291	5	0.08413	0.0788	0.00101	13.3259
			27.10	27.60	0.50	1497293	3.1	0.08936	0.046	0.0011	9.926
			27.60	29.00	1.40	1497294	2	0.05269	0.0425	0.0019	7.258
29.00	32.35	FQZ1 Weakly foliated quartzite									
<<Struc: 31.4 - 31.45: moderate to strong Gouge 60 deg. >>											
			29.00	31.00	2.00	1497296	0.4	0.00711	0.0055	0.0006	1.1201
			31.00	31.45	0.45	1497298	3.1	0.02851	0.0093	0.00076	6.438
			31.45	32.35	0.90	1497299	1.1	0.00626	0.02	0.00172	2.6887
32.35	38.15	FQZ2 Penetratively foliated quartzite									
<<Alt: 32.35 - 32.95: strong Sericitic>>											
			32.35	33.00	0.65	1497300	0.2	0.00691	0.1578	0.00807	9.9497

Hole: GH18-002

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
38.15	38.38	UNK1 Unknown 1									
Siltstone; previously logged as aplite. Will correlate directly with 1497278 (GH18-004) and 1497019 (GH18-003)											
38.38	41.00	FQZ2 Penetratively foliated quartzite									

End of Hole @ 41

Project: Keno-Lightning

Hole: CH18-039

Prospect:	Caribou Hill	Survey Type:		Logged By:	R Turna	Hole Type:	DDH
UTM Grid:	NAD83_Z8	Survey By:		Log Started:	2018-08-15	Hole Diameter:	9.6
UTM East:	492856	Final Surveyed Coords?:	<input type="checkbox"/>	Log Completed:		Core Size:	HQ
UTM North:	7091049	Length (m):	131	Drill Company:	Boart LY	Casing Pulled?:	<input type="checkbox"/>
UTM Elevation (m):	1782			Drill Rig:		Casing Depth (m):	
Azimuth:	283			Drill Started:	2018-07-28	Reduced Core Size:	
Dip:	-60	Comments:		Drill Completed:	2018-07-30	Reduced Depth (m):	

Depth (m)	Survey Method	Survey By	Date Surveyed	Dip	Measured Azimuth	Declination	Corrected Azimuth	Mag. Field	Accept Values?	Comments
14	REFLXEZ		2018-07-28	-59.7	261.9	20.5	282.4	5807	<input checked="" type="checkbox"/>	
41	REFLXEZ		2018-07-30	-60	262.8	20.5	283.3	5749	<input checked="" type="checkbox"/>	
92	REFLXEZ		2018-07-30	-62.3	263.9	20.5	284.4	5757	<input checked="" type="checkbox"/>	
131	REFLXEZ		2018-07-30	-65.7	264.7	20.5	285.2	5767	<input checked="" type="checkbox"/>	

Hole: CH18-039

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
3.50	26.30	FQZ2 Penetratively foliated quartzite									
<p>Relic euhedral pyrite, mm-scale, oxidized and disseminated in matrix. Foliation 30-40 TCA <<Struc: 6.37 - 6.43: weak to moderate Fault>> foliation parallel. Weak micaceous gouge. Weak graphite on slickensides.</p>											
26.30	39.00	FQZ1 Weakly foliated quartzite									
<p>Graphitic gouge at 35.40-35.70m, light-orange qtz associated with g.gouge, qtz veins with diffuse borders, <10cm width and parallel to foliation, 40 TCA. <<Vein: 27.65 - 30.47: 12% Quartz-Iron oxide>> both discordant and foliation parallel (60-70 tca). <<Struc: 35.4 - 36.34: weak Fault 35 deg. >> Fissile platy micaceous shear texture, feels faulted and mostly healed. Encloses vuggy lim qtz veining. No obvious gouge.</p>											
			35.40	36.34	0.94	1497387	0.9	0.00434	0.0088	0.0007	1.7523
39.00	43.00	FQZ2 Penetratively foliated quartzite									
<p>Orange, weakly oxidized qtz veins parallel to foliation, 25-30 TCA.</p>											
43.00	48.40	FQZ1 Weakly foliated quartzite									
<p>Repeating alteration? Of MnOx staining and baked appearance, no reaction to HCL. Alterations zones occur at 43.80-44.20m, 45.50-45.80m, 46.90-48.20m.</p>											
48.40	50.50	MBRX Mineralized breccia									
<p>Sharp upper qtz-veined contact between fqz1 and upper clast-supported breccia which grades into a heavily oxidized MnOx matrix-supported breccia with a sharp lower contact to fqz1. Approximately 50 cm of each type of breccia. <<Struc: 48.5 - 50.5: moderate to strong Fault / strong Breccia>> (See this interval in Litho) Clasts anywhere from 2mm - 80mm, subrounded -subangular. Strongly limonitic matrix seems mostly healed rock flour from faulting. Moderately occurring in the matrix typically with lim, is a dark metallic lustre, weakly magnetic mineral. Not spec hem - no red streak.</p>											
50.50	60.25	FQZ1 Weakly foliated quartzite									
<p>>10 cm wide bull qtz veins associated with limonite and graphitic stringers which x-cut foliation, with sigmoidal habit. Extremely fissile graphitic gouge occurs at 53.80-54.10m and 56.40-56.70m.</p>											
			50.50	53.00	2.50	1497392	20.6	0.03385	0.0068	0.00027	24.209

Hole: CH18-039

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
60.25	65.80	FQZ2 Penetratively foliated quartzite medium gray FG	64.87	66.06	1.19	1497393	5.3	0.01772	0.0516	0.00451	9.4506
<p>fqz2 foliation 30-10 TCA, decreasing angle downhole. Brecciated fqz2 and white qtz vein with significant MnOx staining at 64.90-65.40m. Sharp lower CT at 65 deg tca. <<Vein: 64.87 - 65.4: 80% Quartz-Iron oxide>> Occasionally graphitic. Some local brecciation and faulting/gouge evident in the qtz rubble or hosted in intact vein. Lim-stained.</p>											
65.80	88.10	GPHY Graphitic micaceous phyllite black FG	66.06	66.85	0.79	1497394	2.8	0.00572	0.0644	0.00641	7.2945
<p>Repeating gradation from foliated phyllitic to banded schistose, high graphite content throughout, foliation 30-50 TCA increasing downhole, mm-scale relic euhedral py associated with qtz and graphite banding segregation. Repeating units of graphitic gouge at 66.10-66.80m, 71.00-71.50m, 87.40-88.00m. <<Struc: 66.06 - 66.85: moderate to strong Fault>> Mostly healed gouge, weak to mod graphitic.</p>											
88.10	94.20	GPHY Graphitic micaceous phyllite medium gray FG	66.85	68.28	1.43	1497395	1.4	0.00205	0.0571	0.00994	5.9457
<p>Phyllite +/- some fqz2; foliation/banding 50 TCA. Oxidized, light yellow brecciated qtz vein gradational into blk graphitic gouge, 91.60-92.30m. Occasional tr to local weak fine-med grained py disseminations. <<Struc: 91.15 - 92.4: strong Fault / weak Breccia>> Graphitic gouge/faulting in interval's lower half. Some local brecciation in upper half only associated with large fracturing Fe-stained quartz vein pushing in.</p>											
94.20	97.90	FQZ1 Weakly foliated quartzite dark grey FG	91.15	92.40	1.25	1497396	0.7	0.00281	0.1147	0.00615	7.7877
<p>Quartzite: weakly foliated massive texture. Tr fracture-controlled py present. Short lengths of lim-overprinted core. Mod-strong discordant sigmoidal Fe-stained qtz veining (<5cm).</p>											
97.90	99.20	MVN Mineralized vein medium brown	98.15	99.22	1.07	1497397	4.3	0.0282	0.1824	0.01319	18.1269
<p>20% of interval is still Phyllite interbed/clasts or quartzite wall rock. Top CT is sharp phyllite band, at 30deg tca. Qtz vein is intact but highly lim-fractured/vugged with tr frac-controlled py. Breccia is brittle and intensely rusty Fe-oxidized with angular to sub-ang qtz clasts and mm-scale weak fg Py patches. <<Vein: 98.15 - 99.22: 80% Quartz-Iron oxide-Sulphides>> Qtz vein is intact but highly lim-fractured/vugged with tr frac-controlled py. Brecciation is brittle and intensely rusty Fe-oxidized with angular to sub-ang qtz clasts and mm-scale weak fg Py patches.</p>											

Hole: CH18-039

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
99.20	100.62	GPHY Graphitic micaceous phyllite black Phyllite: compositionally banded w/ tr py. Biotite-rich. Bands fold and fracture within the qtz vein. Qtz vein is mostly intact but highly internal lim-fractured +/-graphite. Bottom CT is sharp 40 deg tca and qtz-veined.	99.22	100.62	1.40	1497399	4.4	0.01816	0.0994	0.00923	11.8953
100.62	113.25	FQZ2 Penetratively foliated quartzite light green Foliated quartzite: strongly ser-chl altered light green. Mod-strong lim preferring compositionally banded in with foliations. Pyrite varies, tr to 0.4%, fine to med-gr, sub -euherdral sparse disseminations. 40 deg tca qtz-veined upper contact. Foliations generally 30-40deg tca. S-folding of foliations occur at interval's bottom metres. Bottom contact is undulating with proximal similarly deformed qtz vein. <<Alt: 100.62 - 113.25: moderate to strong Sericitic / weak Chlorite >> Foliated quartzite: strongly ser-chl altered light green. Mod-strong lim preferring compositionally banded in with foliations. Pyrite varies, tr to 0.4%, fine to med-gr, sub -euherdral sparse disseminations. Foliations generally 30-40deg tca.									
113.25	119.50	GPHY Graphitic micaceous phyllite black Phyllite: biotite-banded 40-50 deg tca. With clean white discordant qtz veining, as well as more frequently banding parallel, splitting the beds. These "interbeds" of qtz get preferred by >=0.5% fine pyrite occurring in oblong blebby/patches 1-4mm scale.									
119.50	128.26	FQZ2 Penetratively foliated quartzite dark grey MG Quartzite: weak to mod foliated. 0.5-0.8% med grained disseminated py. Mod frequent (~1cm) weakly Fe-stained but barren pygmatic wormy qtz veining, among larger 4-10 cm discordant and concordant qtz veining. Top CT sharp at 35 deg tca, parallel qtz vein proximally above and lim halo on lower side. Bottom CT sharp at 45 deg tca, foliation parallel and py present.									
128.26	131.00	GPHY Graphitic micaceous phyllite black Phyllite: biotite-banded 35-40 deg tca. With clean white concordant qtz veining banding parallel, splitting the beds. These "interbeds" of qtz get preferred by >=1% pyrite occurring mostly in oblong med-coarse patches 2-8mm scale, and coarse blebs in with the bio bands.									

EOH

End of Hole @ 131

Project: Keno-Lightning

Hole: CH18-040

Prospect:	Caribou Hill	Survey Type:		Logged By:		Hole Type:	DDH
UTM Grid:	NAD83_Z8	Survey By:		Log Started:	2018-08-15	Hole Diameter:	9.6
UTM East:	492855	Final Surveyed Coords?:	<input type="checkbox"/>	Log Completed:		Core Size:	HQ
UTM North:	7090926	Length (m):	80	Drill Company:		Casing Pulled?:	<input type="checkbox"/>
UTM Elevation (m):	1752			Drill Rig:		Casing Depth (m):	
Azimuth:	275			Drill Started:		Reduced Core Size:	
Dip:	-69	Comments:		Drill Completed:		Reduced Depth (m):	

Depth (m)	Survey Method	Survey By	Date Surveyed	Dip	Measured Azimuth	Declination	Corrected Azimuth	Mag. Field	Accept Values?	Comments
14	REFLXEZ		2018-07-31	-69.4	256.5	20.5	277	5801	<input checked="" type="checkbox"/>	
35	REFLXEZ		2018-08-01	-69.5	257.2	20.5	277.7	5765	<input checked="" type="checkbox"/>	
55	REFLXEZ		2018-08-01	-69.7	258.5	20.5	279	5755	<input checked="" type="checkbox"/>	
80	REFLXEZ		2018-08-01	-69.6	258.5	20.5	279	5760	<input checked="" type="checkbox"/>	

Hole: CH18-040

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
0.00	4.90	OVB Overburden									
No recovery											
4.90	17.35	FQZ2 Penetratively foliated quartzite	light grey	MG							
appearance changes with intensity of veining - where quartz veins are more pervasive, unit is finer grained and has more black (K-rich) bands											
<<Vein: 4.9 - 6.75: 10% Quartz-Pyrite>> Vein 1: vugs with oxidized material and studded with small pyrite grains											
<<Vein: 11.7 - 12.7: 15% Quartz>>											
<<Struc: 4.9 - 5.7: Foliated 40 deg. >>											
<<Struc: 5.7 - 7.55: Foliated 40 deg. >>											
<<Struc: 7.55 - 9.4: Foliated 50 deg. >>											
<<Struc: 9.4 - 11.35: Foliated 50 deg. >>											
<<Struc: 11.35 - 13.15: Foliated 50 deg. >>											
<<Struc: 13.15 - 15.1: Foliated 50 deg. >>											
<<Struc: 15.1 - 17.3: Foliated 40 deg. >>											
<<Struc: 17.3 - 19.2: Foliated 55 deg. >>											
17.35	20.35	FQZ1 Weakly foliated quartzite	dark grey	FG							
texture, lith 1: Massive											
<<Struc: 19.2 - 21.05: Foliated 50 deg. >>											
20.35	24.20	GPHY Graphitic micaceous phyllite	dark brown	FG							
texture, lith 2: MASSIVE											
<<Struc: 21.05 - 22.9: Foliated 50 deg. >>											
<<Struc: 22.9 - 24.9: Foliated 50 deg. >>											
24.20	38.80	FQZ1 Weakly foliated quartzite	dark grey	FG							
texture: MASSIVE											
<<Struc: 24.9 - 26.8: Foliated 50 deg. >>											
<<Struc: 26.8 - 29: Foliated 45 deg. >>											

Hole: CH18-040

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
38.80	43.85	FQZ2 Penetratively foliated quartzite									
<<Vein: 43.1 - 44.5: 70% Quartz-Iron oxide-Sulphides>> weakly brecciated quartz vein cut by hematite veinlets Samples 1497120-1497122 <<Struc: 39.1 - 41.25: Foliated 50 deg. >> <<Struc: 41.25 - 43.1: Foliated 45 deg. >> <<Struc: 43.1 - 45.15: Foliated 45 deg. >>											
			42.10	43.10	1.00	1497116	7.3	0.11031	0.0233	0.00158	14.3565
			43.10	43.40	0.30	1497118	4.2	0.03501	0.0126	0.00047	9.2136
			43.40	43.85	0.45	1497119	7.6	0.10339	0.0796	0.0009	16.9927
43.85	44.50	MVN Mineralized vein									
Minor breccia texture only, which is why I've logged it as MVN. Sphalerite in small euhedral crystals, <2% vol. Hematite veinlets cut across main quartz vein <<Min: 44.15 - 44.5: 5% Hematite / 0.5% sphalerite>>											
			43.85	44.15	0.30	1497120	183	0.16556	0.6877	0.02399	236.3785
			44.15	44.50	0.35	1497121	73.3	1.81	2.45	0.005	306.8612
44.50	62.90	FQZ2 Penetratively foliated quartzite									
pyrite disseminated as euhedral cubes, <1% <<Min: 56 - 56.55: 3% Hematite / 0.5% sphalerite>> <<Vein: 54.8 - 56.55: 3% Quartz-Iron oxide / 17% Quartz>> <<Struc: 45.15 - 47.25: Foliated 30 deg. >> <<Struc: 47.25 - 49.25: Foliated 55 deg. >> <<Struc: 49.25 - 51.2: Foliated 65 deg. >> <<Struc: 51.2 - 53.15: Foliated 55 deg. >>											
			44.50	45.50	1.00	1497123	4.2	0.11339	0.1582	0.00043	18.9849
			45.50	46.35	0.85	1497124	23.4	0.43334	0.3311	0.00325	64.0345
			46.35	55.10	8.75	1497125	1.5	0.03034	0.0246	0.00057	4.3622
			55.10	55.40	0.30	1497127	14.3	0.38751	0.2071	0.00229	44.2447
			55.40	56.00	0.60	1497129	5.5	0.26288	0.0422	0.00086	20.6297
			56.00	56.55	0.55	1497130	15.8	0.48528	0.802	0.00251	83.147
			56.55	57.30	0.75	1497132	2.8	0.04545	0.0515	0.00077	7.8117

Hole: CH18-040

From (m)	To (m)	Rock Type & Description	From (m)	To (m)	Length	Sample #	Ag Best ppm	Pb Best pct	Zn Best pct	Cu Best pct	Ag Equiv
<<Struc: 53.15 - 55.3: Foliated 60 deg. >> <<Struc: 55.3 - 57.05: Foliated 40 deg. >> <<Struc: 57.5 - 59: Foliated 40 deg. >> <<Struc: 59 - 60.9: Foliated 55 deg. >> <<Struc: 60.9 - 63: Foliated 50 deg. >>											
62.90	67.25	FQZ2 Penetratively foliated quartzite									
sulfide bands <1/2 cm wide; increase in pyrite content in fqz2 <<Struc: 63 - 64.85: Foliated 50 deg. >> <<Struc: 64.85 - 66.9: Foliated 45 deg. >> <<Struc: 66.9 - 68.75: Foliated 45 deg. >>											
67.25	74.40	GPHY Graphitic micaceous phyllite	black								
extensive K-rich banding. Much more penetrative foliation. Graphitic foliation surfaces. Euhedral pyrite cubes up to 2mm <<Vein: 69.5 - 75.5: 5% Quartz>> Cream colored mineral, blebby, within qtz veins, <10% of vein body: likely Fe-carbonate. Soft. No effervescence. <<Struc: 68.75 - 70.7: Foliated 40 deg. >> <<Struc: 70.7 - 72.65: Foliated 45 deg. >> <<Struc: 72.65 - 74.7: Foliated 50 deg. >>											
74.40	80.00	FQZ2 Penetratively foliated quartzite									
<<Struc: 74.7 - 76.65: Foliated 50 deg. >> <<Struc: 76.65 - 78.7: Foliated 50 deg. >> <<Struc: 78.7 - 80: Foliated 60 deg. >>											

End of Hole @ 80

Appendix IV. Drilling Invoices



Invoice

Invoice No:	Summary-11681
Customer No:	57508
Contract/PO No:	
Project Number (BLY):	114242
Invoice Date:	23-JUL-2018
Terms:	N 30 Days D.O.I
Invoice Due Date:	22-AUG-2018
Customer VAT No:	

Hole #: GH18-002

Date	Description	From	To	Depth	Qty	UOM	Rate	Extended Rate
01-JUL-2018	HQ DRILLING 0-150	4.50	15.00	10.50	10.50	Meters	158.82	1,667.61
01-JUL-2018	CLIENT DELAY				1.50	Hours	285.00	427.50
01-JUL-2018	HQ OVERBURDEN 0-15M	0.00	4.50	4.50	4.50	Meters	206.47	929.12
01-JUL-2018	REFLEX TEST				0.50	Hours	285.00	142.50
01-JUL-2018	MOVE BETWEEN HOLES/LEVELS				1.50	Hours	285.00	427.50
01-JUL-2018	HQ BIT #4055626				1.00	Each	502.58	502.58
02-JUL-2018	HQ DRILLING 0-150	15.00	42.00	27.00	27.00	Meters	158.82	4,288.14
02-JUL-2018	CLIENT DELAY				1.00	Hours	285.00	285.00
02-JUL-2018	REFLEX TEST				0.50	Hours	285.00	142.50
02-JUL-2018	GROUTING/CEMENTING				2.00	Hours	285.00	570.00
02-JUL-2018	AMC CR 650 15KG PAIL				1.00	Each	135.44	135.44
02-JUL-2018	BENTONITE STAR GEL (50LB)				2.00	Each	19.40	38.80
02-JUL-2018	HQ VAN RUTH PLUG				1.00	Each	390.39	390.39
02-JUL-2018	LAFARGE GU CEMENT 20KG BAG				4.00	Each	8.05	32.20
Total	Drill Hole ID: GH18-002			42.00			100% included for assessment	9,979.28

[Redacted]

Payments not received by the due date will be subject to a finance charge in accordance with the contract



Invoice

Invoice No:	Summary-11903
Customer No:	57508
Contract/PO No:	
Project Number (BLY):	114242
Invoice Date:	10-AUG-2018
Terms:	N 30 Days D.O.I
Invoice Due Date:	09-SEP-2018
Customer VAT No:	

Hole #: CH18-039

Date	Description	From	To	Depth	Qty	UOM	Rate	Extended Rate
27-JUL-2018	HQ DRILLING 0-150	3.50	11.00	7.50	7.50	Meters	158.82	1,191.15
27-JUL-2018	HQ OVERBURDEN 0-15M	0.00	3.50	3.50	3.50	Meters	206.47	722.65
27-JUL-2018	MOVE BETWEEN HOLES/LEVELS				3.00	Hours	285.00	855.00
28-JUL-2018	HQ DRILLING 0-150	11.00	44.00	33.00	33.00	Meters	158.82	5,241.06
28-JUL-2018	HQ DRILLING 0-150	44.00	56.00	12.00	12.00	Meters	158.82	1,905.84
28-JUL-2018	REFLEX TEST				0.50	Hours	285.00	142.50
28-JUL-2018	HOLE CONDITIONING				5.00	Hours	285.00	1,425.00
29-JUL-2018	HQ DRILLING 0-150	83.00	110.00	27.00	27.00	Meters	158.82	4,288.14
29-JUL-2018	HQ DRILLING 0-150	56.00	83.00	27.00	27.00	Meters	158.82	4,288.14
29-JUL-2018	HOLE CONDITIONING				5.00	Hours	285.00	1,425.00
30-JUL-2018	HQ DRILLING 0-150	110.00	131.00	21.00	21.00	Meters	158.82	3,335.22
30-JUL-2018	REFLEX TEST				1.50	Hours	285.00	427.50
30-JUL-2018	GROUTING/CEMENTING				1.00	Hours	285.00	285.00
30-JUL-2018	HOLE CONDITIONING				2.00	Hours	285.00	570.00
30-JUL-2018	INSTALL WATERLINE				2.00	Hours	285.00	570.00
30-JUL-2018	HQ VAN RUTH PLUG				1.00	Each	390.39	390.39
30-JUL-2018	REMOVE CASING				1.00	Hours	285.00	285.00
30-JUL-2018	LAFARGE GU CEMENT 20KG BAG				2.00	Each	8.05	16.10

Payments not received by the due date will be subject to a finance charge in accordance with the contract



Invoice

Invoice No: Summary-11903
Customer No: 57508
Contract/PO No:
Project Number (BLY): 114242
Invoice Date: 10-AUG-2018
Terms: N 30 Days D.O.I
Invoice Due Date: 09-SEP-2018
Customer VAT No:

Date	Description	From	To	Depth	Qty	UOM	Rate	Extended Rate
Total	Drill Hole ID: CH18-039			131.00			100% included for assessment	27,363.69

Hole #: CH18-040

Date	Description	From	To	Depth	Qty	UOM	Rate	Extended Rate
30-JUL-2018	HQ DRILLING 0-150	4.00	20.00	16.00	16.00	Meters	158.82	2,541.12
30-JUL-2018	HQ OVERBURDEN 0-15M	0.00	4.00	4.00	4.00	Meters	206.47	825.88
30-JUL-2018	REFLEX TEST				0.50	Hours	285.00	142.50
30-JUL-2018	MOVE BETWEEN HOLES/LEVELS				3.00	Hours	285.00	855.00
31-JUL-2018	HQ DRILLING 0-150	20.00	50.00	30.00	30.00	Meters	158.82	4,764.60
31-JUL-2018	HQ DRILLING 0-150	50.00	80.00	30.00	30.00	Meters	158.82	4,764.60
31-JUL-2018	HOLE CONDITIONING				2.50	Hours	285.00	712.50
31-JUL-2018	INSTALL WATERLINE				1.00	Hours	285.00	285.00
Total	Drill Hole ID: CH18-040			80.00			100% included for assessment	14,891.20

[REDACTED]								
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]				[REDACTED]	T	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]				[REDACTED]	T	[REDACTED]	[REDACTED]
[REDACTED]								[REDACTED]
[REDACTED]								[REDACTED]

Payments not received by the due date will be subject to a finance charge in accordance with the contract