NI 43-101 TECHNICAL REPORT

on the

TOPLEY PROPERTY

Topley Landing, Babine Lake Area, Omineca MD, BC

Centered Near:
Latitude 54° 45' 06.8" North, Longitude 126° 12' 30.3" West
UTM coordinates: 6070758 m N, 679650 m E
(NAD 83, Zone 09)

Prepared for: **GEOLOGICA RESOURCE CORP.**
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Effective Date: **May 07, 2021**

Geotronics

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1 SUMMARY

Geologica Resource Corp. ("**Geologica**") contracted David Mark, P.Geo. of Geotronics Consulting Inc., to visit as well as to prepare a Technical Report on the Topley Property. This independent report summarizes known information pertaining to **porphyry copper-molybdenite and/or volcanic-hosted massive sulphide (VHMS) targets**. It describes the geology of the project area, summarizes the property's known exploration history, reviews the nature of property copper, molybdenite, and gold mineralization, documents the results of the 2018-2020 exploration programs, which consisted of prospecting, rock sampling, MMI soil sampling, SGH soil sampling, as well as ground magnetic surveying and then makes recommendations for further exploration.

This report was prepared at the request of Geologica Resource Corp. and was written under the guidelines of Canadian National Instrument 43-101 and in compliance with Form 43-101F1 (the "Technical Reports"). David Mark, P.Geo, served as the independent Qualified Person responsible for preparing the Technical Report and travelled with an assistant to the property from September 24th to 25th, 2020.

The Topley Property area is situated in the Babine Lake area of the Omineca Mining Division within north central British Columbia 58 km east of the town of Smithers. It presently consists of 7 claims totaling 2,706.5 hectares, the names and tenure numbers of which are given in Table 2. Access to the property is excellent since the Central Babine Lake Highway, #118, runs northerly through its center.

Six of the Topley Property claims are owned 100% by Decoors Mining Corp. ("**Decoors**") and one claim is owned 100% by Glen Prior ("**Prior**"). Geologica has entered into an option agreement with Decoors and a purchase agreement with Prior, to acquire a 100% undivided right, title, and interest in and to the Topley Property, subject to the following conditions.

1. With Decoors for its six Topley claims, the agreement, dated October 30, 2020, and amended November 1, 2020, states that over a period of 4 years, Geologica must pay Decoors a total of $55,000, issue 1,000,000 shares, and carry out $150,000 worth of work on the property.
2. With Prior for its one Topley claim, the agreement, dated April 14, 2021, states that Geologica must pay Prior $2,500 and issue $50,000 worth of shares over a 4-year period.

The report is also being prepared to support a proposed listing of Geologica Resource Corp. common shares pursuant to the policies of the CSE.

This report discusses exploration potential of the Topley Property, and recommendations for further exploration. These opinions and recommendations are intended to serve as guidance for future evaluation of the property and should not be interpreted as a guarantee of success.

The Topley Property occurs within the Stikine Terrane which is composed of Carboniferous to Middle Jurassic island-arc volcanic and sedimentary rocks plus several related plutonic suites. Extensive glacial deposits of variable thickness mask much of the bedrock in the region which is considered to be principally underlain by Mesozoic layered rocks; the most widespread being clastic volcanic and sedimentary rocks of the Jurassic-aged Hazelton Group. Other rocks include sedimentary and volcanic rocks of the Middle to Late Triassic Takla Group and Carboniferous to Permian Asitka Group. These are intruded by plutonic rocks of various ages including Lower Jurassic 'Topley Intrusive Suite', early Cretaceous 'Omineca Intrusions', late Cretaceous rhyolite porphyry stocks and granodiorite porphyries, and early Tertiary 'Babine Intrusions'.

The rocks of both the Hazelton and Takla groups are exposed in several places on the Topley Property, particularly along Tachek Creek. The local outcrop occurrences consist of dark green augite porphyry flows, breccias, and tuffs with minor dark grey shales. The rocks of the Hazelton and Takla groups were intruded by the Topley monzonite of Early Jurassic age and again by 'Babine'-type porphyry of Upper Cretaceous 77 Ma. Rocks of the Asitka, Takla, and lower Hazelton groups are intruded by pink-coloured granitic rocks that make up the Topley Intrusive Suite (Schiarizza and MacIntyre 1999).

A Babine-type porphyry is the primary exploration target in the area. The Babine porphyry is primarily a quartz-biotite-feldspar porphyry of granodiorite composition and is the host rock in the Bell Copper and Granisle mines. The Topley Intrusives can be monzonites which often varies from quartz monzonite to monzonite with sporadic mineralization of chalcopyrite and molybdenite. None of the intrusion has been found to contain economic grades to date.

Three types of alteration occur on the property and are related to fracture-and fault-controlled zones of mineralization. These are (1) propylitic alteration with component minerals being chlorite and epidote and is the most widespread along Tachek Creek; (2) argillic/sericite alteration as altered feldspars in intrusive quartz monzonites which are associated with gossanous zones located along major fault zones; and (3) potassic alteration recognized in the northern part of Tachek Creek but with secondary biotite (component mineral in potassic alteration) not being observed. Minerals associated with the weak observed potassic alteration include magnetite and potassium feldspar. Pinkish zeolite and weak, very narrow barren calcite veinlets are rather common near faulted regions.

Four types of faults have been recognized on the property and these are oblique slip faults which are the most common, strike slip faults, normal faults, and reverse faults. Most of these have been mapped within the Tachek Creek area of the property where the most outcrop exists.

There are six MinFile occurrences on the property but the one which almost all the work has been done on is the Tachi Prospect which occurs east of the highway within the east central part of the claim group. Sulphide mineralization, consisting of pyrite, chalcopyrite, and molybdenite appears to be widespread marginal to the biotite-quartz feldspar porphyry dikes. In general, the molybdenum is restricted to potash feldspar rimmed fractures, while chalcopyrite occurs both in fractures and as disseminations in both the granitic rocks and the porphyries. Precious metal values were noted in the contact zones. Copper mineralization and related secondary copper oxide minerals and other sulphides observed on the Topley claims include, in order of abundance; malachite, chalcopyrite, magnetite, pyrite, molybdenite, azurite, and bornite. These minerals are consistent with a widespread copper/molybdenite porphyry system on the Topley claims. The mineralized porphyry system extends, in areas mapped, from Tachek Creek north to Tachek Creek south, a north-south distance of approximately 1,125 metres.

Copper mineralization is hosted almost exclusively within Middle Jurassic Spike Peak Intrusive Suite quartz monzonite rocks. Three types of controls on copper mineralization were observed within the quartz monzonite intrusive rocks on the Topley claims and these are -

1. fracture controlled copper mineralization consisting of malachite and chalcopyrite.
2. fault-controlled copper mineralization consisting of chalcopyrite, malachite, molybdenite, azurite and associated magnetite.
3. copper mineralization and sulphides (chalcopyrite, pyrite, molybdenite, and malachite) increasing marginal to porphyry and diabase dikes. Dikes and dike swarms usually occur in zones of weakness produced by earlier faulting and tend to concentrate copper mineralization.

Schists north of the highway contain numerous quartz veins up to two metres in width with the veins generally occupying planes of schistosity. Samples contained up to 2.2 grams per tonne silver, 0.005 to 0.01 gram per tonne gold and up to 0.473 per cent copper (Carter 1988).

The Babine Lake area has been historically well known for a significant number of porphyry-style mineral occurrences and/or deposits with the most notable deposits being the Granisle and the Bell Mines. Additional mineral potential in the area has been ranked extremely high. Mineral deposit types present in the region are classified as porphyry and epigenetic, characterized by disseminated, vein, and breccia hydrothermal systems.

The Topley Property has been extensively explored by various prospectors and mining companies for porphyry copper, molybdenum, and gold deposits since 1968 when mineralization was first discovered in Tachek Creek (Noranda 1969). Since that time, various explorers have carried out prospecting, rock sampling, soil geochemistry surveys, magnetic surveys, induced polarization and resistivity surveys, trenching, and diamond drilling.

The first claims of the property were staked in 2018 by both Decoors and Prior. That year rock sampling and MMI soil sampling was carried out with the MMI sampling revealing anomalous results in copper and gold. In 2019, Decoors carried out test lines of SGH soil sampling. SGH soil sampling was expanded in 2020 to picking up 515 samples on a 200-meter grid that covered most of the property. 305 samples were sent in to Actlabs for SGH analysis and interpretation.

The exploration work carried out so far on the Topley Property has supported the model of porphyry copper-molybdenite and/or volcanic massive sulphide (VMS) targets. It is the author's conclusion that the Topley project is a property of merit, and worthy of future exploration, as outlined in Section 26. Recommendations.

A 2022 program of compilation and interpretation of all historical data as well as soil sampling and induced polarization/resistivity surveying is recommended. The budget for Phase 1 recommendations totals C$113,000. Phase 2 is contingent on the results of Phase 1.

2 INTRODUCTION AND TERMS OF REFERENCE

This technical report summarizes the exploration history, geological information and recent work conducted by the property owners and Geologica on the Topley Property **porphyry copper-molybdenite and/or volcanic massive sulphide (VMS) targets**. The property is south of Topley Landing within north central British Columbia approximately 58 km east of the town of Smithers British Columbia. Historical and recent property exploration efforts were directed towards porphyry copper mineralization located within the east central property area.

This Technical Report was prepared by David Mark, P.Geo (the **"Author"**) at the request of Geologica. The preparation of the report entailed the compilation of a geological summary and history of work conducted on the property and writing of a Technical Report as defined in National Instrument 43-101 and in compliance with Form 43-101F1 (the "Technical Reports"). This report summarizes the exploration carried out by previous owners and Geologica and describes mineralization on the property and on the adjacent properties. Much of this information is derived from assessment reports filed with the province of British Columbia by previous owners and current owners. The 2020 exploration work was supervised by Peter Shorts of Decoors Mining who optioned six of the seven claims to Geologica.

David Mark, P.Geo, served as the independent Qualified Person responsible for preparing the Technical Report.

David Mark with an assistant visited the property from September 24th to 25th, 2020 to complete the personal inspection, accessing the property by the Topley Granisle Highway.

This report is also being prepared to support a proposed listing by Geologica pursuant to the policies of the Canadian Stock Exchange. The property covers the Tachi mineral showing documented in the British Columbia provincial mineral database, MINFILE (Figure 2).

Geological, geophysical, and rock sampling data compiled by the author has led to recommendations for work on the Topley Property mineral claims. Results from previous exploration have been positive and a two-phase program of historical data compilation, soil geochemical sampling, IP/resistivity surveying, SkyTem airborne surveying, drilling is recommended. The budgets of Phases 1 and 2 have a combined total of C$513,000.

TABLE 1 - DEFINITIONS

AAS	atomic absorption spectroscopy
Ag	silver
Au	gold
cm	centimeter
CSE	Canadian Securities Exchange
Cu	copper
g	gram
gpt	grams per tonne, equivalent to ppm
ICP	inductively coupled plasma
kg	kilogram
km	kilometre
m	metre
mm	millimetre
Ma	Million years
Mo	molybdenum
NAD	North American Datum
opt	ounces per ton
ppb	parts per billion
ppm	parts per million, equivalent to grams per tonne
QA/QC	Quality Assurance/Quality Control
REE	rare earth elements
SEDEX	sedimentary exhalative deposit
UAV	unmanned aerial vehicle
UTM	Universal Transverse Mercator, coordinate system
VMS	volcanic massive sulphide

Data generated at the Topley Property utilizes SI (metric) units in this Technical Report unless otherwise noted. Assay and/or geochemical data may be presented as parts per million (ppm) and its equivalent grams per tonne (gpt) or ounces per ton (opt). Where relevant, conversions between different units used in this report were calculated utilizing the factors supplied by the BC government Ministry of Energy Mines website using the following conversion factors.

1 meter	39.370 inches
1 meter	3.28083 feet
1 kilometer	3,280 feet
1 gpt	1 ppm
1 ounce (troy)	31.1034768 grams
1 ounce (avdp)	28.3495 grams
1 troy ounce/ton	34.2857 grams per metric tonne = 34.2857 ppm
1 gram per metric tonne	0.0292 troy ounce per short ton
1 kilogram (kg)	32.151 ounces (troy) = 35.274 ounces (avdp) = 2.205 lbs
1 hectare	2.471 acres = 10,000 sq. metres = 0.00386 sq. miles

3 RELIANCE ON OTHER EXPERTS

All of the opinions expressed in the report are those of the Author based on a review of the historical work done on the property. The Author has not relied on the opinions of non-qualified persons in preparing this report other than, as of the date of this report, the author has relied 100% on information provided by Geologica Resource Corp. for information pertaining to the legal ownership of claims on the Topley Property. This information is relied upon in section 4 "Property Description and Location". To the best of the author's knowledge and experience the data is correct. However, the author disclaims responsibility for such information.

4 PROPERTY DESCRIPTION AND LOCATION

4.1 PROPERTY AREA AND LOCATION

The Topley Property is situated within the Omineca Mining Division within north central British Columbia about 5 km south of Babine Lake and 1.5 km south of Fulton Lake. It is also 8 kilometres south-southwest of the small community of Topley Landing, 16 km due south of the village of Granisle, and 58 km east of the town of Smithers, which is the main supply center for the area. The property is located on NTS mapsheets 93L/09 and 93L/16 and BCGS mapsheets 93L.079 and 93N.080 centering at a latitude of 54˚45'06.8" N and longitude 126˚12'30.3" W (Figures 1,2, and 3). The correlating UTM NAD 83 coordinates are 679650 easting and 6070758 northing within zone 9.

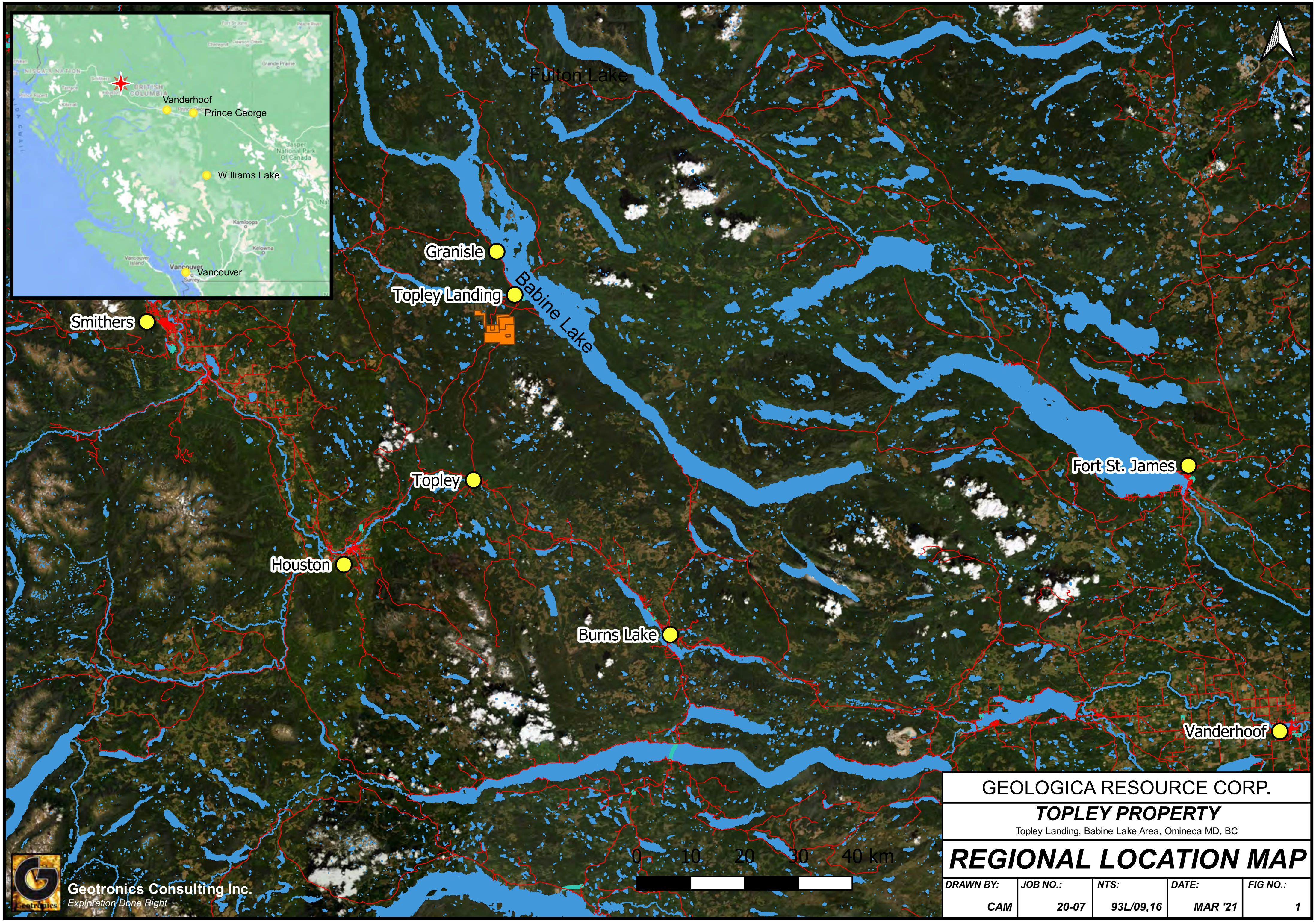
4.2 LAND TENURE, LEGAL AGREEMENTS, AND OTHER ASSETS

The Topley Property presently consists of 7 claims totaling 2,706.535 hectares, whose names and tenure numbers are given in Table 2 below. The main part of the claim area is about 6 kilometres in an east-west direction by 5 kilometers in a north-south direction, as shown on Figure 1 and Figure 2.

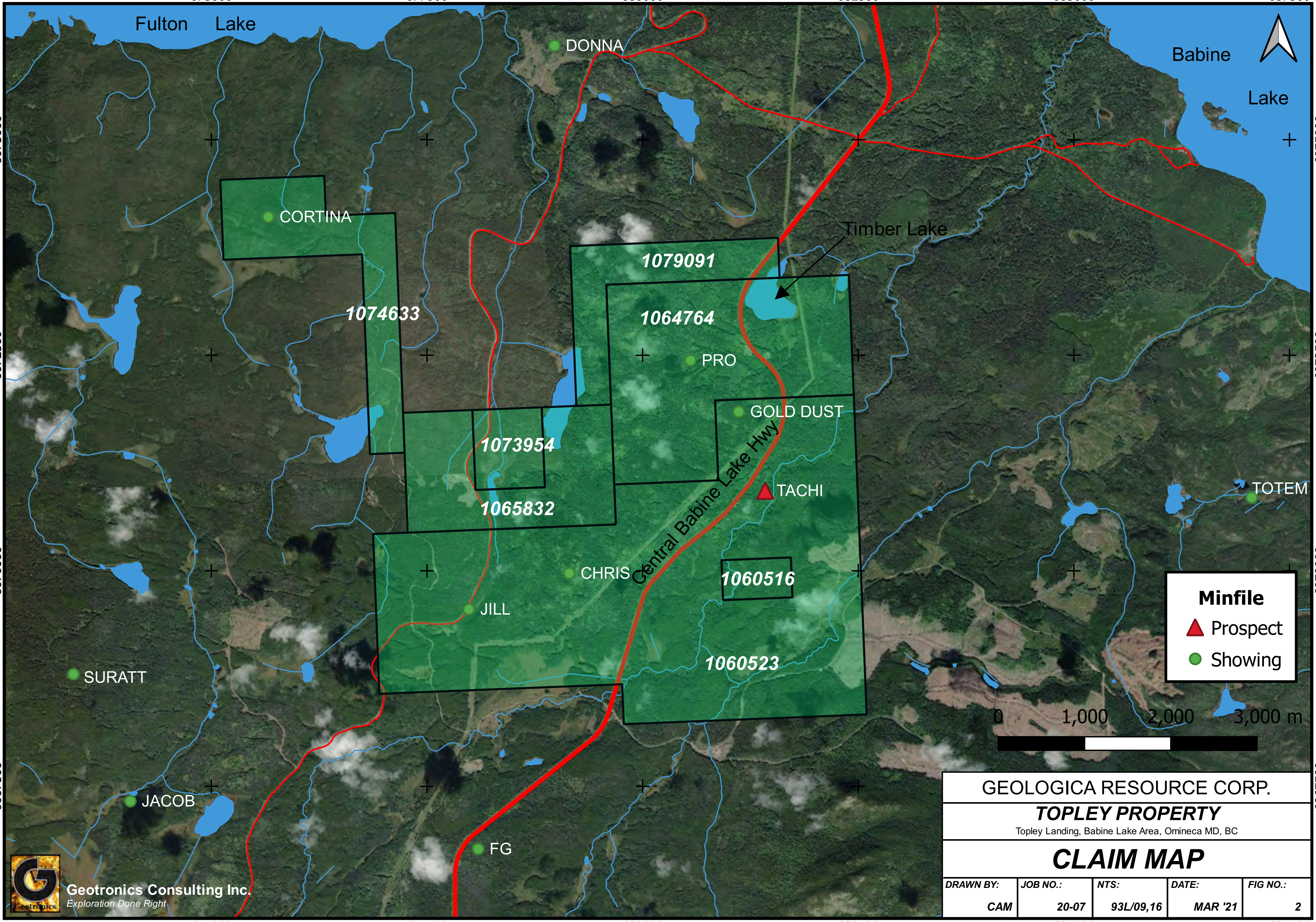
TABLE 2 - MINERAL CLAIMS OPTIONED BY GEOLOGICA RESOURCE CORP.

Tenure Number	Date Staked	Claim Name	Owner	Expiry Date	Area (ha)
1060516	May 09, 2018	TAC	Prior	Nov 29, 2028	37.34
1060523	May 10, 2018	GD 1	Decoors	Aug 10, 2024	1418.9282
1064764	Nov 30, 2018	GD 2	Decoors	Aug 11, 2024	503.8452
1065832	Jan 17, 2019	GD U	Decoors	Aug 11, 2024	261.3213
1073954	Jan 18, 2020	TOPLEY PLUG	Decoors	Aug 11, 2024	74.6585
1074633	Feb 17, 2020	CORTINA	Decoors	Aug 11, 2024	242.5253
1079091	Oct 10, 2020	GD 3	Decoors	Aug 11, 2024	167.9169
				TOTAL	**2,706.535**

The Topley Property has not been legally surveyed.



Vanderhoof
Prince George
Williams Lake
Vancouver
Fulton Lake
Granisle
Topley Landing
Babine Lake
Smithers
Topley
Houston
Burns Lake
Fort St. James
Vanderhoof
0 10 20 30 40 km
Geotronics Consulting Inc.
Exploration Done Right
GEOLOGICA RESOURCE CORP.
TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC
REGIONAL LOCATION MAP
DRAWN BY: CAM
JOB NO.: 20-07
NTS: 93L/09,16
DATE: MAR '21
FIG NO.: 1



675000
677500
680000
682500
685000
687500
6075000
6072500
6070000
6067500
Fulton Lake
Babine Lake
DONNA
CORTINA
1074633
1079091
1064764
Timber Lake
PRO
GOLD DUST
1073954
1065832
Central Babine Lake Hwy
TACHI
TOTEM
CHRIS
1060516
JILL
1060523
SURATT
JACOB
FG
Minfile
Prospect
Showing
0
1,000
2,000
3,000 m
GEOLOGICA RESOURCE CORP.
TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC
CLAIM MAP
DRAWN BY: CAM
JOB NO.: 20-07
NTS: 93L/09,16
DATE: MAR '21
FIG NO.: 2
Geotronics Consulting Inc.
Exploration Done Right

4.2.1 Purchase and Sale Agreement with Glen Prior

The TAC claim, with tenure number 1060516, is owned 100% by Glen Prior of Sherwood Park, Alberta, and is being purchased by Geologica Resource Corp. with the following terms as per a purchase agreement dated April 14, 2021.

(1) A cash payment of $2,500 made by Geologica to Prior upon the signing of the agreement.

(2) Issuance of Geologica shares to Prior in Canadian dollar equivalents as follows.

i. on or prior to December 31, 2021 - $5,000

ii. on or prior to December 31, 2022 - $10,000

iii. on or prior to December 31, 2023 - $15,000

iv. on or prior to December 31, 2024 - $20,000

The Property Purchase and Sale Agreement, which was amended on December 19, 2021, called for Geologica to issue $5,000 of Common Shares to Prior by December 31, 2021. The value of the Common Shares to be issued as consideration was be calculated based on the average closing price of the Common Shares on the Exchange over the 10 trading days prior to the delivery of notice to Prior of the issuance of the Common Shares. Under the Amendment to the Property Purchase and Sale Agreement, Prior has agreed to be issued 50,000 shares at a deemed value of $0.10 to settle the $5,000 payment that was due by December 31, 2021.

On December 20, 2021, Geologica issued the 50,000 common shares due to the Prior under the Amendment to the Property Purchase and Sale Agreement.

4.2.2 Option Agreement with Decoors Mining Corp.

The remaining 6 claims; with tenure numbers 1060523, 1064764, 1065832, 1073954, 1074633, and 1079091; and consisting of 143 cells, are owned 100% by Decoors Mining Corp. of Whitehorse, Yukon, and are being optioned to Geologica Resource Corp., as discussed below.

Geologica has entered into an option agreement dated October 30, 2020, and amended November 1, 2020, with Decoors Mining Corp. whereby Geologica was granted an option to acquire 100% undivided right, title and interest in and to the Topley Property.

To keep the Geologica 's option in good standing and to exercise the option, thereby earning 100% interest in and to the property, Geologica is required to pay $55,000, and issue 1,000,000 common shares as follows:

i. $5,000 upon signing of the option agreement with Decoors Mining;

ii. $50,000 by December 31, 2023;

iii. an issuance of 250,000 common shares upon achieving a public listing of Geologica Resource Corp; and

iv. a further issuance of 250,000 shares per year for the following three years by December 31st of each year.

In addition, Geologica Resource must spend a total of $150,000 on the property as follows:

i. $15,000 on or before November 7th, 2020, which has been carried out,

ii. $25,000 on or before December 31st, 2020, which has been carried out, and

iii. $110,000 on or before December 31st, 2021.

Also, Decoors has been granted a net smelter royalty (NSR) of 2% with Geologica having an option to purchase ½ of the royalty, that is, 1%, for a cash payment of $1,000,000.

On October 12, 2021, Geologica and Decoors signed an amendment to this Option Agreement to extend the period in which Geologica must complete an additional $110,000 of exploration on the Decoors Claims from December 31, 2021, to May 30, 2022.

On January 26, 2022, Geologica and Decoors signed an amendment to the Option Agreement to extend the period in which Geologica must issue 250,000 shares to Decoors from December 31, 2021, to the date that the Common Shares are listed on an exchange.

4.2.3 Assessment Work Requirements

Exploration work must be carried out on the property to keep the claims in good standing and to retain ownership. When this work is applied to the claims and filed with the BC Government, it is termed "assessment work". There is no work required for the Prior claim until 2028. The assessment work required for the Decoors part of the Topley Property, which consists of 2,669.1954 hectares, is as follows:

i. $5/hectare/year for a total of $13,346/year for the first two years
ii. $10/hectare/year for a total of $26,692/year for the next two years
iii. $15/hectare/year for a total of $40,038/year for the next two years
iv. $20/hectare/year for a total of $53,384/year for every year thereafter.

The claims were staked in different years and months, and thus the amount of assessment work required for each year will be somewhat different than that shown above. By the end of 2021, $24,267 will be needed to be spent on the property and this increases every year until October 10, 2026, when the assessment amount reaches $53,384 per year and stays at this amount until the TAC claim comes due on November 29, 2028, and the required assessment work amount to keep it in good standing with the BC government increases $747 to $54,131/year for every year thereafter.

4.3 Location of Mineralization and Facilities

The known mineralization is shown mainly on the Topley Property geology map, Fig 5, which is after page 15. In addition, the main showing is plotted on the accompanying claim map, the rock sample maps and the geophysical maps. There are no active mines on the property nor any type of facilities.

4.4 ENVIRONMENTAL LIABILITIES

The author is not aware of:

I. Any environmental liabilities to which the Topley Property is subject.

II. Any other significant factors and risks that may affect access, title, or the right or ability to perform work on the property.

4.5 PERMITS AND LAND USE AGREEMENTS

No permits are required for the initial work that is recommended to be carried out on the property this year (2021). A permit will be required for any possible diamond drilling which could be carried out in 2022. Any future physical work disturbance will necessitate public consultations with potentially impacted groups.

4.6 FACTORS AND RISKS

No other factors or risks are known that may affect access, title or the right or ability to perform work on the property.

5 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 ACCESS

The property has excellent access since the Central Babine Lake Highway, which connects Topley on Highway 16 to Granisle on Babine Lake, runs northerly through its center as shown on the access location map, Figure 2, and the claim map, Figure 3. Topley is 29 km from the southern property boundary and Granisle is 14 km from the northern property boundary. Much of the rest of the property can be reached by forestry roads.

5.2 LOCAL RESOURCES AND INFRASTRUCTURE

Smithers, which is a town of 6,000 population, is the main supply center for the property area, and is accessed by vehicle along 133 km of paved highway and 1½ hours of travel time. A more substantial supply center is Prince George, which has a population of 74,000 and is accessed by 308 km of paved highway and 3½ hours of travel time. Prince George is 780 km from the city of Vancouver.

Electricity is easily available since a powerline runs northerly through the property sub-parallel to the highway to the west.

5.3 PHYSIOGRAPHY

The Topley Property is located within the Nechako Plateau, which is a physiographic division of the Interior Plateau System. The Nechako Plateau consists generally of flat and gently rolling country with large areas of undissected upland which is covered by glacial till and which is typical of the property. There are local exceptions such as Tachek Creek canyon which contains incised gullies with steep sides.

The elevations vary from 820 meters within the northeastern part of the property, to 1,120 meters at the peak of a hill within the central part of the property resulting in an elevation difference of only 300 meters. Most of the property is composed of gently to moderately rolling hillside with the steepest part being in the northeastern area.

The vegetation of the property is a forest-covering that varies from moderate to dense evergreen forests, mostly pine trees but also spruce and cedar, as well as deciduous trees being poplar, spruce and willow. There are also extensive swampy areas with much huckleberry and other undergrowth-type brush.

The main water sources are Tachek Creek, which flows northeasterly within the southeastern part of the property, and several smaller creeks and lakes that are located throughout the property.

5.4 CLIMATE

The climate in the Topley Property area varies from a high in summer of around 30°C to a low in winter of around –30°C, though the high and low can reach 34°C and -44°C, respectively. However, during the summertime, the average temperature is about 20°C, and during the winter, about -10°C.

Annual rainfall is 308 mm, with a high of 53 mm in June and a low of 25 mm in April. The area experiences snowfall about half the year, peaking in January at about 39 mm and falling to 6.5 mm in October and April on either tail-end for a year total of 163 mm. Total precipitation for the year averages 471 mm.

6 EXPLORATION HISTORY

The following discusses the history prior to the current staking of the claims, the first three which were staked in 2018. Work on the property after the claims were staked is discussed under “Exploration”.

The Babine Lake area has been historically well known for a significant number of porphyry-style mineral occurrences and/or deposits. The most notable deposits are the Granisle and the Bell Mines. Additional mineral potential in the area has been ranked extremely high, as the Babine Lake area is the fourth most prospective in the entire Skeena-Nass mineral potential project area (MacIntyre et al. 1995). Mineral deposit types present in the region are classified as porphyry and epigenetic, characterized by disseminated, vein, and breccia hydrothermal systems.

The Topley property has been extensively explored by various prospectors and mining companies for porphyry Cu, Mo, and Au deposits since 1968 when mineralization was first discovered in Tachek Creek (Noranda 1969).

Below is a brief outline of the exploration history of the Topley property area, summarized from various assessment reports.

- ***1968 – 1969: Noranda Exploration Ltd. (Noranda)***

  Noranda staked 170 claims, carried out geological mapping, geochemical (soil and silt) and geophysical (induced polarization, magnetics, and electromagnetic) surveys, and drilled 32 holes: 6 diamond and 26 percussion. In total, 2,401 m were drilled comprising of 874 m diamond and 1,527 m of percussion. Significant assay results obtained from the drill program included 0.62% Cu over 3.1 m from percussion hole 31 and 0.25% Cu over 3.1 m from percussion hole 32 (Noranda 1969).

- ***1968 – 1969: Tro-Buttle Exploration Ltd.***

  1267 soil samples were collected from a total of 75 line-km in search of a porphyry type deposit (Dirom 1969). Several samples had anomalous Cu and Mo values with one sample yielding up to 4.65% Mo.

- ***1970: Taseko Mines Limited***

  Taseko Mines Limited drilled three diamond drill holes with a cumulative depth of ~288 m. Taseko targeted the area of Noranda percussion holes # PDH-14, 31, and 32. These holes returned an average of ~0.07% Cu over their lengths.

  1970: Tro-Buttle Exploration Ltd.

  As a follow-up of the anomalies discovered in 1969, Tro-Buttle Exploration Ltd. collected 680 soil samples from 39 line-kilometres covering their entire claims in 1970. Several samples had anomalous Cu and Mo values.

- ***1972: Twin Peak Resources Ltd and Cobre Exploration Ltd.***

  In 1972, Twin Peak Resources Ltd. completed an airborne magnetic survey over the Tachek Creek area covering an area of about 30 sq km. The results revealed several positive magnetic anomalies including a prominent northeasterly trend in the eastern portion of the study area and a more subtle northerly trend in the western part (Woolverton 1973).

- ***1973: Perry, Knox, Kaufman Inc.***

  In 1973, Geoterrex completed an 11 km time-domain induced polarization (IP) survey in search of disseminated style sulfide mineralization. Two anomalies were identified in the south and central areas of the property and recommended for follow-up drilling (Lloyd 1973). Three vertical diamond drill holes were completed and these intersected argillaceous siltstones containing up to 10% pyrite plus minor pyrrhotite and chalcopyrite.

- ***1973: Amoco Petroleum Company Ltd.***

  In 1973, Amoco Canada Petroleum Co. Ltd. carried out geochemical and geophysical surveys and drilled 3 diamond holes totalling 500 m. No results were reported (Strickland 2012).

- ***1982: Dancer Energy and Resources Ltd.***

  Dancer Energy and Resources Ltd. carried out soil sampling and geological mapping. Their significant results include 1% Cu and 0.9% Mo (Plicka 1982).

- ***1987 – 1988: Gerard Auger***

  Between 1987 and 1988, prospective work by Gerard Auger returned up to 214 ppm Cu, 1675 ppm Mo, and 1270 ppb Au from granitic rock samples (Carter 1988; Roik and Robinson 2013).

- ***1989 – 1992: Nick Carter***

  Between 1989 and 1992, prospective work by Nick Carter returned interesting results with up to 196 ppm Cu, 994 ppm Mo, and 4900 ppb Au (Carter 1990, 1991, 1992). In 1990, a VLF-EM survey was completed over 12.5 km, but no significant anomalies were observed (Carter 1991). In 1991, percussion drill cuttings and drill core samples from Noranda's 1968 and 1969 drill programs were resampled and assayed. The results indicated a widespread low grades copper mineralization. The results also showed anomalous gold values in two areas of the property (Carter 1992).

- ***1993: Cominco Ltd.***

  In 1993, Cominco Ltd. conducted an Induced Polarization/Resistivity survey on a property adjacent to the original Gold Dust claims to follow-up some of the previous alteration and sampling results. The results indicated the potential presence of a Cu-Mo porphyry system (Strickland 2012).

- ***1995 – 1999: Hudson Bay Exploration and Development Co. Ltd.***

  Between 1995 and 1999, Hudson Bay Exploration and Development Co. Ltd. carried out several exploration programs including a follow-up of Cominco's targets, 16 km of ground electromagnetic (EM) and magnetic surveys, and collection of 68 soil samples. The EM survey defined two parallel conductors, but no soil sample had any anomalous values (Strickland 2012). In 1998, an additional 16 km of geophysical surveying and line cutting was carried out and in 1999, 7 diamond drill holes were completed for a total of 1,094.5 m. Only one hole (LEN-004) yielded significant base and precious metals values including 0.7% Cu, 0.4% Zn, 0.7% Mn, 0.3% As, and 14.9 g/t Ag (Dunning 2000).

- ***2006: NXA Inc.***

  In 2006, NXA Inc. conducted IP, magnetic, reconnaissance exploration, and geochemical soil surveying. The geophysical survey identified mineralization targets with coincident low magnetic susceptibility and high conductivity (low resistivity). The orientation of their interpreted anomalies did not conform to historical drilling targets (Strickland 2012).

- ***2010 – 2014: Altiplano Minerals Ltd.***

  From 2010-2014 Altiplano Minerals Ltd. conducted several exploration programs including geological mapping, trenching, rock sampling, and soil sampling within the Topley property. In total, 1,540 soil samples were collected.

- ***2010 – 2013: Riverside Resources Inc.***

  In 2013, Riverside Resources Inc. flew an airborne survey over their Flute and Lennac Properties. The Topley Property was included in their results.

- Historical Drill Holes

  Several historical drill holes encountered copper mineralization the location of which is shown on Figure 3.

7 GEOLOGICAL SETTING AND MINERALIZATION

7.1 REGIONAL GEOLOGY

The Babine Lake area is located within the Intermontane tectonic belt, and the west side of Babine Lake, where the Topley Property is located, is considered to be part of the Stikine (Volcanic Arc) Terrane. The Stikine Terrane itself is composed of Carboniferous to Middle Jurassic island-arc volcanic and sedimentary rocks plus several related plutonic suites. Extensive glacial deposits of variable thickness mask much of the bedrock in the region which is considered to be principally underlain by Mesozoic layered rocks; the most widespread being clastic volcanic and sedimentary rocks of the Jurassic-aged Hazelton Group. These are intruded by plutonic rocks of various ages including Lower Jurassic 'Topley Intrusive Suite', early Cretaceous 'Omineca Intrusions', late Cretaceous rhyolite porphyry stocks and granodiorite porphyries, and early Tertiary 'Babine Intrusions'. A simplified map of the regional geology can be found in Figure 4.

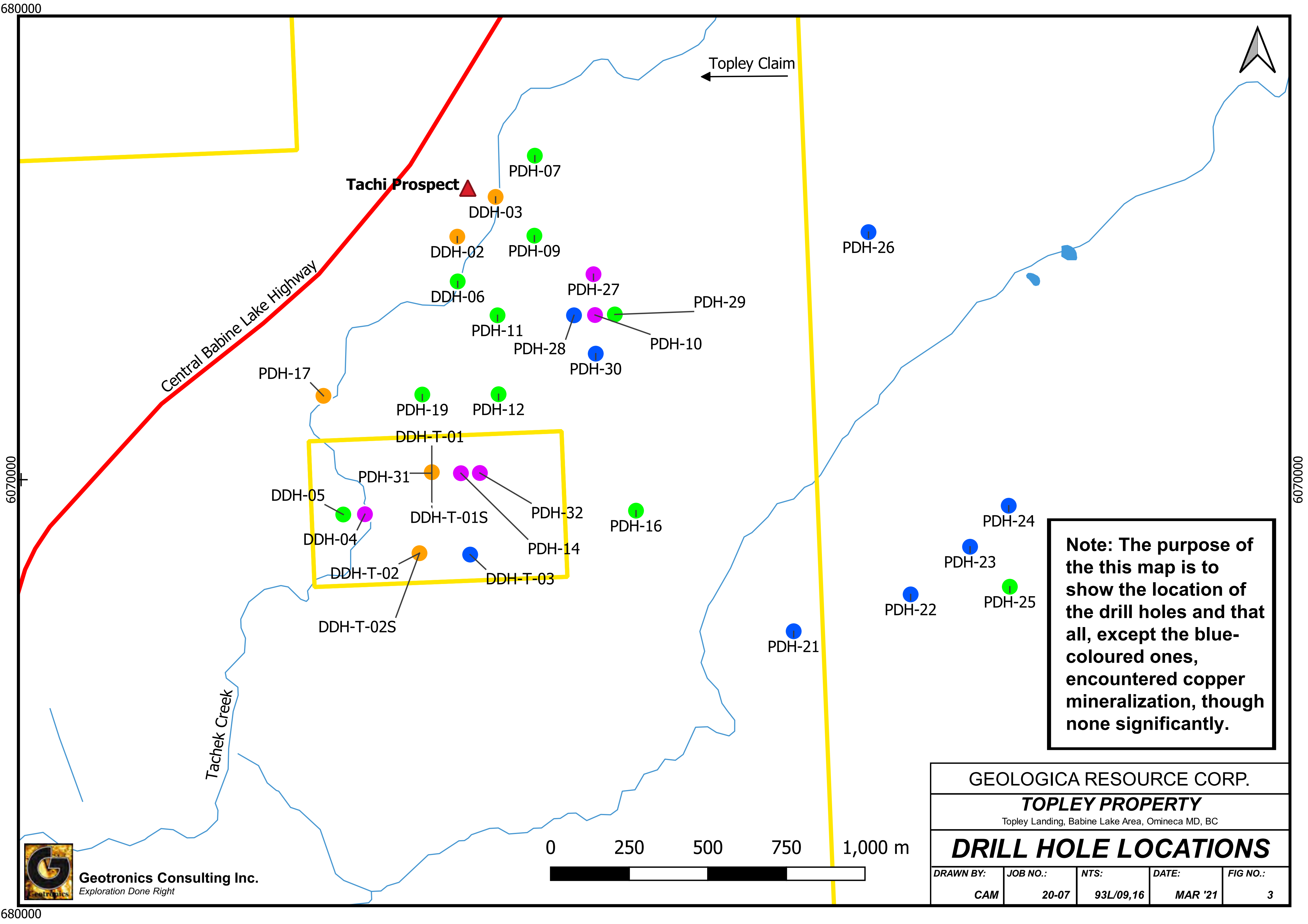
This area of the Stikine Terrane consists of the following groups (MacIntyre et al., 1987):

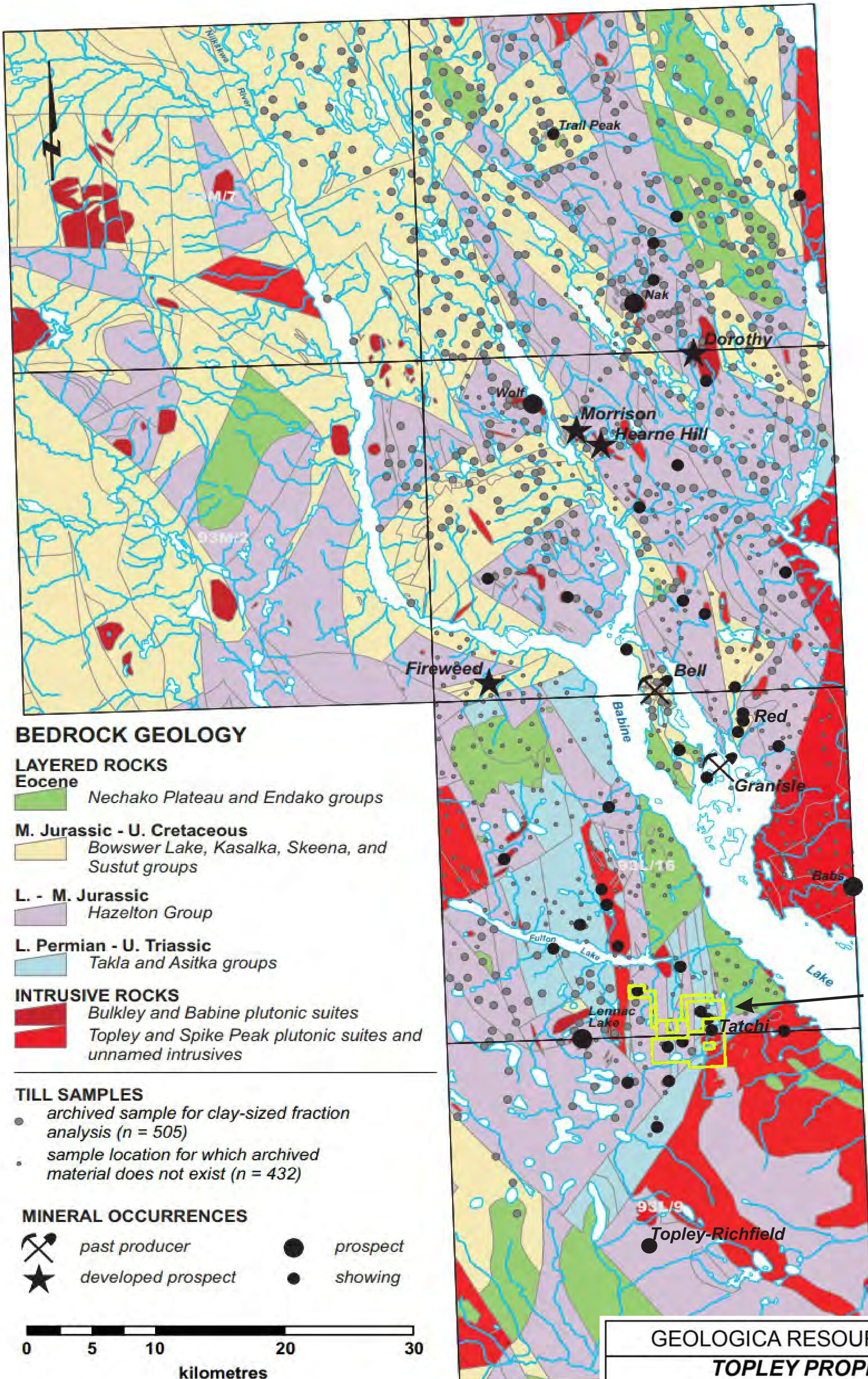
1. Hazelton Group (Early to Middle Jurassic): andesitic volcanic and volcaniclastic rocks and related marine sedimentary rocks

2. Takla Group (Middle to Late Triassic): augite basalt, andesite, and related marine sedimentary rocks.

3. Asitka Group (Carboniferous to Permian): island arc metavolcanic rocks and limestones.

These rock groups are then cut by what is interpreted to be the Late Triassic to Early Jurassic Topley Intrusive Suite which is considered to be co-magmatic with the volcanic successions


680000
6070000
6070000
680000
Topley Claim
Tachi Prospect
Central Babine Lake Highway
Tachek Creek
PDH-07
DDH-03
DDH-02
PDH-09
DDH-06
PDH-27
PDH-29
PDH-11
PDH-28
PDH-10
PDH-30
PDH-17
PDH-19
PDH-12
DDH-T-01
PDH-31
DDH-05
DDH-T-01S
PDH-32
PDH-16
DDH-04
PDH-14
DDH-T-02
DDH-T-03
DDH-T-02S
PDH-26
PDH-24
PDH-23
PDH-25
PDH-22
PDH-21
Note: The purpose of the this map is to show the location of the drill holes and that all, except the blue-coloured ones, encountered copper mineralization, though none significantly.
0
250
500
750
1,000 m
Geotronics Consulting Inc.
Exploration Done Right
GEOLOGICA RESOURCE CORP.
TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC
DRILL HOLE LOCATIONS
DRAWN BY: CAM
JOB NO.: 20-07
NTS: 93L/09,16
DATE: MAR '21
FIG NO.: 3



GEOLOGICA RESOURCE CORP.

TOPLEY PROPERTY

Topley Landing, Babine Lake Area, Omineca MD, BC

REGIONAL GEOLOGY MAP

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	20-07	93L/09,16	MAR '21	4

(MacIntyre et al., 2001). Structurally, the Topley Property area is part of basin-and-range type horst and graben structures, and a variety of the known Stikine Terrane groups can be found.

The Topley Property area rocks appear to be primarily units from the previously noted Hazelton Group rocks. The Hazelton Group is further subdivided into four formations by MacIntyre et al. (1987 and 2001) as follows.

1. Telkwa Formation (Lower Jurassic)
   (a) polymictic conglomerates
   (b) porphyritic andesites
   (c) fragmental volcanic rocks
   (d) phyllitic maroon tuffs

2. Nilkitkwa Formation (Early Jurassic)
   (a) red epiclastics and amygdaloidal flows
   (b) rhyolitic volcanic rocks
   (c) conglomerates, tuffs, siltstones
   (d) argillites, cherty limestones

3. Saddle Hill Formation (Early to Middle Jurassic)
   (a) pyroxene basalt flows
   (b) basaltic tuffs
   (c) tuffaceous sandstones
   (d) ash flow tuffs

4. Smithers Formation
   sandstones, siltstones, felsic tuffs

Notably, the Nilkitkwa Formation is known to host several types of mineralization, including mesothermal Au-Ag veins, Cu-Zn-Ag massive sulphide and the porphyry style deposits typical of the region.

From my analysis of the regional geology, the best-known style of mineralization in the Babine Lake area is porphyry copper mineralization associated with small stocks and dyke swarms of biotite-feldspar-porphyry of the Babine intrusions. More than a dozen of this type of deposit have been drilled over the past 50 years of which two, Bell Copper and Granisle as shown on the Regional Geology Map, have been developed as producing mines and one, Morrison, has drill-indicated reserves.

The Bell copper mine is also a significant producer of gold with past production and anticipated reserves totalling 68 million tonnes with a recovered and contained 17,755 kg (570,819 oz) of gold (Schroeter et al. 1989). Bell Copper produced 21,349 tonnes of copper and 29,000 ounces gold in 1990. This information concerning these nearby properties is not intended to imply similar production or reserves would ever be available from the Topley property.

Copper-molybdenum mineralization is also known to occur in late phases of the Topley intrusions, as is evident on the Topley claim, and in late Cretaceous granodiorite porphyries. Other deposit types in the area include narrow veins with base and precious metals values, which commonly occur marginal to known porphyry deposits, and disseminated copper mineralization in Hazelton Group volcanic rocks (Carter 1992).

7.2 GEOLOGY OF TOPLEY PROPERTY AREA

The rocks of both the Hazelton and Takla groups are exposed in several places on the Topley Property, particularly along Tachek Creek. The local outcrop occurrences consist of dark green augite porphyry flows, breccia, and tuffs with minor dark grey shales. The rocks of the Hazelton and Takla groups were intruded by the Topley monzonite of Early Jurassic age and again by 'Babine'-type porphyry of Upper Cretaceous age.

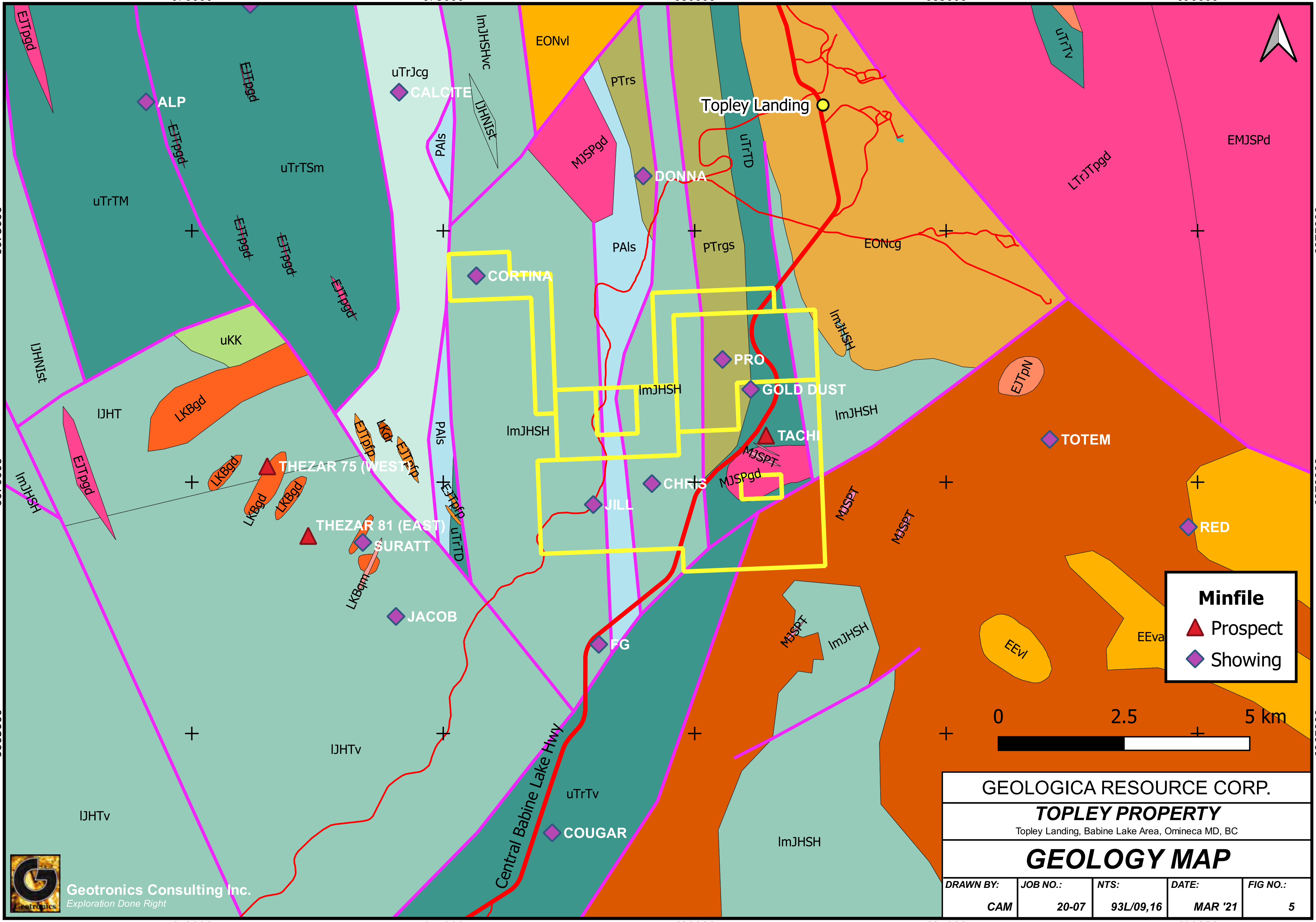
Rocks of the Asitka, Takla, and lower Hazelton groups are intruded by pink-coloured granitic rocks that make up the Topley Intrusive Suite (Schiarizza and MacIntyre 1999). This suite, as first defined by Carter (1981) during the historic work, includes quartz diorite to granodiorite intrusions that are Late Triassic to Early Jurassic in age. In the Topley Property area, the Topley Intrusive Suite includes a possible multi-phase 'Tachek' stock, which is well exposed in uplifted fault blocks both southwest and southeast of Topley Landing. Age dating is required to determine whether this Intrusive Suite is truly "Topley" or the identical looking "Spike Peak" Intrusive Suite, which is commonly restricted to the eastern side of Babine Lake (MacIntyre et al., 2001). Volcanic rocks of similar ages to these Intrusions occur throughout the Babine porphyry copper district in western Nechako Project area within Map sheet 093L/16 – a Babine-type porphyry is the primary exploration target in the area.

The Babine porphyry is primarily a quartz-biotite-feldspar porphyry of granodiorite composition and is the host rock in the Bell Copper and Granisle mines. The Topley Intrusives can be monzonites and they often vary from quartz monzonite to monzonite; sporadic mineralization of chalcopyrite and molybdenite was historically encountered in Topley monzonites; none of the intrusion has been found to contain economic grade to date.

7.3 TOPLEY PROPERTY GEOLOGY

Principal lithologies within the claim area include chlorite and sericite schists which are exposed north of the Granisle highway. These are variably deformed and feature north-trending, steeply-dipping schistosities. Intercalated with the schists and bordering them on the west are mainly massive andesites (greenstones) which are locally weakly schistose.

Apparently argillaceous siltstones are part of this principally volcanic sequence and underlie the drift-covered area between the Topley granitic rocks and the Granisle highway - power lines on the Topley Property claims. These rocks are not exposed but were intersected by 3 historic holes drilled in 1973 by Amoco. Topley granitic rocks are exposed in two areas along Tachek Creek. In the northernmost portions of the Topley Property area, light grey to pink granodiorites and quartz monzonites features steeply-dipping west-northwest and east-northeast fractures. Crowded texture quartz-hornblende-biotite-feldspar porphyry dykes,



670000
675000
680000
685000
690000
6075000
6070000
6065000
Topley Landing
ALP
CALCITE
DONNA
CORTINA
PRO
GOLD DUST
TACHI
TOTEM
THEZAR 75 (WEST)
THEZAR 81 (EAST)
SURATT
CHRIS
JILL
RED
JACOB
FG
COUGAR
Central Babine Lake Hwy
EJTpgd
uTrTSm
uTrTM
uTrJcg
lmJHSHvc
EONvl
PTrs
MJSPgd
PAls
lJHNIst
uTrTD
EMJSPd
LTrJTpgd
uTrTv
PTrgs
EONcg
lmJHSH
uKK
LKBgd
lJHT
EJTpN
MJSPT
EEvl
EEva
lJHTv
Minfile
Prospect
Showing
0
2.5
5 km
Geotronics Consulting Inc.
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GEOLOGICA RESOURCE CORP.
TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC
GEOLOGY MAP
DRAWN BY: CAM
JOB NO.: 20-07
NTS: 93L/09,16
DATE: MAR '21
FIG NO.: 5

MINFILE

▲ Prospect

◆ Showing

Faults

— Fault

Geology

EEva | EOCENE | andesitic volcanic rocks
Nechako Plateau Group - Endako Formation

EEvl | EOCENE | coarse volcaniclastic and pyroclastic volcanic rocks
Nechako Plateau Group - Endako Formation

EJTpfp | LATE TRIASSIC TO EARLY JURASSIC | feldspar porphyritic intrusive rocks
Topley Intrusive Suite - Megacrystic Porphyry Dykes

EJTpgd | EARLY JURASSIC | granodioritic intrusive rocks
Topley Plutonic Suite

EJTpN | EARLY JURASSIC | coarse volcaniclastic and pyroclastic volcanic rocks
Topley Plutonic Suite - Nose Bay Intrusive Breccia

EMJSPd | EARLY TO MIDDLE JURASSIC | diabase, basaltic intrusive rocks
Spike Peak Intrusive Suite

EONcg | EOCENE | conglomerate, coarse clastic sedimentary rocks | Nechako Plateau Group - Newman Formation - Basal Conglomerate Member

EONvl | EOCENE | coarse volcaniclastic and pyroclastic volcanic rocks
Nechako Plateau Group - Newman Formation - Breccia Member

lJHNlst | EARLY JURASSIC | argillite, greywacke, wacke, conglomerate turbidites
Hazelton Group - Nilkitkwa Formation

lJHT | EARLY JURASSIC | basaltic volcanic rocks
Hazelton Group - Telkwa Formation - Felsic to Intermediate Volcanic Member

lJHTv | LOWER JURASSIC | undivided volcanic rocks
Hazelton Group - Telkwa Formation

LKBgd | LATE CRETACEOUS | granodioritic intrusive rocks
Bulkley Plutonic Suite - Biotite-Feldspar Porphyritic Phase

LKBqm | LATE CRETACEOUS | quartz monzonitic to monzogranitic intrusive rocks
Bulkley Plutonic Suite - Biotite-Quartz-Feldspar Porphyritic Phase

LKdr | LATE CRETACEOUS | dioritic intrusive rocks
Unnamed

lmJHSH | LOWER TO MIDDLE JURASSIC | undivided volcanic rocks
Hazelton Group - Saddle Hill Formation

lmJHSHvc | LOWER TO MIDDLE JURASSIC | volcaniclastic rock
Hazelton Group - Saddle Hill Formation - Intermediate Volcanic Member

LTrgd | LATE TRIASSIC | granodioritic intrusive rocks
Unnamed

LTrJTpgd | LATE TRIASSIC TO EARLY JURASSIC | granodioritic intrusive rocks
Topley Intrusive Suite - Granodiorite to Monzonite Phase

MJSPgd | MIDDLE JURASSIC | granodioritic intrusive rocks
Spike Peak Intrusive Suite - Quartz Monzonite Phase

MJSPT | MIDDLE JURASSIC | granodioritic intrusive rocks
Spike Peak Intrusive Suite - Tachek Creek Phase

PAls | EARLY PERMIAN | limestone, marble, calcareous sedimentary rocks
Asitka Group

PTrgs | EARLY PERMIAN TO MIDDLE JURASSIC | greenstone, greenschist metamorphic rocks
Deformed Asitka or Takla Groups - Metavolcanic Rocks

PTrs | PERMIAN TO TRIASSIC | chert, siliceous argillite, siliciclastic rocks
Shoemaker Formation

uKK | LATE CRETACEOUS | andesitic volcanic rocks
Kasalka Group

uTrJcg | UPPER TRIASSIC TO EARLY JURASSIC | conglomerate, coarse clastic sedimentary rocks
Unnamed

uTrTD | LATE TRIASSIC | mudstone, siltstone, shale fine clastic sedimentary rocks
Takla Group - Dewar Formation

uTrTM | LATE TRIASSIC | argillite, greywacke, wacke, conglomerate turbidites
Takla Group - Moosevale Formation

uTrTSm | LATE TRIASSIC | basaltic volcanic rocks
Takla Group - Savage Mountain Formation

uTrTv | LOWER CRETACEOUS | undivided volcanic rocks
Takla Group

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TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC

GEOLOGY LEGEND

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	20-07	93L/09,16	MAR '21	5a

2-10 metres wide intrude the granitic rocks and trend west-northwest parallel to one of the principal fracture directions in the granitic rocks. A radiometric age of 176 Ma was obtained from one of these porphyry dykes (Carter, 1981).

The oldest rocks underlying the property are chloritic/sericitic schists and greenstone of the Early Permian to Middle Triassic Asitka and/or Takla Groups. The schists are variably deformed and feature north-trending, steeply dipping schistosities. Intercalated with the schists and bordering them on the west are mainly massive andesites (greenstones) which are locally weakly schistose. Chlorite and sericite schists in the northern parts of the claims contain numerous quartz veins ranging in width from several centimetres to 0.5 metres. The veins, which occupy northerly trending planes of schistosity, commonly pinch and swell but appear to be continuous along strike. Locally, the veins border on pegmatite with some potassium feldspar, but generally they are milky white with some possible manganese staining. Argillaceous siltstones are included in this volcanic and metamorphic sequence of rocks and underlie the drift-cover area between the Spike Peak Intrusive Suite (granitic quartz monzonite) and the Granisle highway-power line on the claims. These rocks are not exposed but were intersected by 3 historic diamond drill holes in 1973 (Amoco Canada Petroleum Company).

Intrusions of Late Triassic to Early Jurassic Topley Intrusive Suite rocks are exposed in the south-east corner of the property. These intrusive rocks were not looked at during the 2010 exploration program. Topley intrusive rocks are described as medium to coarse grained biotite hornblende-plagioclase granodiorite to quartz diorite (Macintyre et al., 2001).

Intrusions of Early to Middle Jurassic Spike Peak Intrusive Suite (generally granitic quartz monzonite) are exposed in two areas along Tachek Creek (north, south) and host most of the copper mineralization on the Topley property. In Tachek Creek north, light grey to pink granodiorite to quartz monzonite feature steeply dipping west-northwest and east-northeast fractures. Crowed texture quartz-hornblende-biotite-feldspar porphyry dykes, 2-10 metres wide, intrude the granitic rocks and trend west-northwest, parallel to one of the principal fracture directions within the granitic rocks. A radiometric age of 176 Ma was obtained from one of these porphyry dykes (Carter, 1981). Basic dykes, moderately to strongly magnetic and up to over 4 metres wide, were also noted cutting granitic rocks in Tachek Creek. These dykes, believed to be of post-mineral or Tertiary age, have chilled margins and some occupy the northerly trending fracture set. The southern exposure area in Tachek Creek features variably weathered, mineralized granitic rock cut by the fractures with the same orientation as those in the northern area. The contact between the granitic rocks and the volcanic-sedimentary sequence is not exposed and is based largely on data obtained from 1973 drilling.

The youngest rocks on the property are Lower to Middle Jurassic Hazelton Group volcanic rocks that unconformable overlie older rocks. The volcanic rocks include green andesite and maroon basalt and generally outcrop to the west of the Granisle Highway.

7.3.1 Detailed Geology along Tachek Creek

The following is a description of the geology along Tachek Creek where much of the work by Altiplano Minerals took place in 2012, partly because this is the area of the main mineralization of the Topley Property and partly because this is where the best bedrock exposure is located.

The oldest rocks exposed along Tachek Creek are intrusive rocks of the Middle Jurassic Spike Peak Intrusive Suite (Quartz Monzonite Phase granodioritic intrusive rocks). The intrusive rock typically seen in the north and south regions is quartz monzonite (granitic) in composition. This quartz monzonite unit is generally medium-grained, weakly magnetic, moderately dark grey, pinkish to salmon coloured weathering. A greenish tinge to the intrusive rock is a result of alteration minerals consisting of chlorite/epidote and a patchy pinkish colour may be a result of potassium feldspar alteration. Estimated percentages of minerals within the quartz monzonite include approximately 80% feldspar, 15% quartz, and 5% biotite. The Spike Peak Intrusive Suite is cut by many younger (Early-Middle Jurassic?) porphyry and diabase dykes.

Two types of dykes occur within the northern part of Tachek Creek within the property. Firstly, the diabase dyke is most common, and it is generally fine-grained, moderately to strongly magnetic, and medium to dark grey, greenish in colour. Secondly, the quartz-hornblende-biotite-feldspar porphyry dyke with approximately 40% feldspar is generally dark grey- black in colour.

Within the southern part of Tachek Creek, two types of dykes intrude the quart monzonite, and a third dyke (andesitic) intrudes what is thought to be a feldspar-hornblende-quartz eye porphyry dyke (dyke or possible small stock). First and most common is the feldspar-hornblende-quartz eye porphyry dyke. This dyke is feldspar rich and pinkish red in colour. A greenish tinge is due to chloritized hornblende. Estimated mineral concentrations include 85% feldspar, 12% hornblende, and 3% quartz eyes. Secondly, a crowed porphyry dyke with 65% feldspar, 30% quartz, and 5% biotite was observed and is a dark grey colour. Thirdly, an andesitic to mafic dyke intrudes the feldspar-hornblende-quartz eye porphyry dyke. This andesitic dyke is fine-grained, weakly magnetic, and grey-greenish in colour. The common diabase dykes are noticeably absent.

7.3.2 Alteration

Three types of alteration occur on the property and are related to fracture-and fault-controlled zones of mineralization.

7.3.2.1 Propylitic

Propylitic alteration, with component minerals being chlorite and epidote, was recognized as the most widespread along Tachek Creek with weak to moderate being strongest to the southwest. Outcrops are noticeably altered to dark green to epidote green especially along fault planes and faulted zones.

7.3.2.2 Argillic/Sericite

Argillic/Sericite-altered feldspars in intrusive quartz monzonites are associated with gossanous zones located along major fault zones. These zones usually contain high concentration of sulphides and strong iron staining (limonite), specular hematite which tend to mask most alterations. Alteration was generally observed to be weak to moderate argillic/sericite and observed in the north and south regions of Tachek Creek.

7.3.2.3 Potassic

Patchy zones of weak potassic alteration were recognized in the northern part of Tachek Creek but secondary biotite (component mineral in potassic alteration) was not observed. Minerals associated with the weak observed potassic alteration include magnetite and potassium feldspar.

Pinkish zeolite and weak, very narrow barren calcite veinlets are rather common near faulted regions.

7.3.3 Structure

Many structural elements were mapped along Tachek Creek and include faults, fractures, dykes, and rare veinlets. The granitic quartz monzonite intrusive unit contained numerous faults. Four types of faulting were recognized and are listed below in order of importance:

7.3.3.1 Oblique-slip faults

These are most common along Tachek Creek and display both a dip-slip and strike-slip component. These faults result from a combination of shearing and tension produced by compressional forces. Within the northern part of Tachek Creek, the oblique-slip faults generally trend approximately east-west with moderately steep and steep dips to the south and north. Other less common trends include northwest-southeast with a moderate dip to the southwest and northeast-southwest with a moderate dip to the southeast. Within the southern part of Tachek Creek, the oblique-slip faults again trend approximately east-west and are vertical or dip steeply to the north. One other less common trend is northeast-southwest with a fairly steep dip to the northwest.

7.3.3.2 Strike-slip faults

These faults are caused by shearing forces. In the north a strike-slip fault trends northeast-southwest and dips moderately steeply to the southeast. This fault displaces (left-lateral) a narrow diabase dyke approximately 0.6 metres. At Tachek Creek south strike-slip faults generally trend northeast-southwest and dip moderately and steeply to the northwest.

7.3.3.3 Normal faults

Normal faults are caused by tensional forces resulting in extension. Two normal faults within the northern part of Tachek Creek trend approximately east-west with moderate and steep dips to the south. One other normal fault also trends approximately east-west and dips steeply north. Within the southern part of Tachek Creek, a normal fault trends almost north-south and dips moderately east.

7.3.3.4 Reverse faults

Two reverse faults were mapped within the northern part of Tachek Creek. A reverse fault is caused by compressional forces and results in shortening. One reverse fault trends approximately north-south and dips steeply to the west. The other fault trends northeast-southwest dipping moderately to steeply southeast.

7.3.3.5 Fractures

Fractures were noted to be abundant along Tachek Creek. Fracturing was mapped as weak to strong and generally the quartz monzonite intrusive is moderately fractured. Strong fracturing and gouge typically occur marginal to fault zones. Fractures were not all mineralized, but the mineralized fractures generally contain weak to strong malachite and trace chalcopyrite. In the north region of Tachek Creek, mineralized fractures generally trend northeast-southwest and dip moderately to steeply southeast however, some fractures dip northwest. Other mineralized fractures trend approximately east-west and dip moderately to steeply north. A few mineralized fractures trend northwest-southeast and dip steeply to the southeast or are vertical. In Tachek Creek south mineralized fractures, in order of abundance, trend northeast-southwest, approximately east-west and north-south.

7.3.3.6 Intrusives

Dykes are common along Tachek Creek and are generally 30 cm to greater than 4 metres wide. Dyke contacts are generally sharp in contact with quartz monzonite and have chilled margins. Dyke swarms have been mapped but are not as common as individual dykes. In Tachek Creek north, the diabase dykes are most common and are up to approximately 4 metres in width where mapped. They generally trend east-west and dip moderately to the north. Other diabase dykes trend northwest-southeast and dip moderately to the southwest and northeast-southwest dipping moderately to the northwest. Two quartz-hornblende –biotite feldspar porphyry dykes were mapped in the north zone and are 0.8 to 2 metres wide. They trend generally east-west and dip 56^{o} to the south. One other porphyry trends northwest-southeast and is vertical. In the south Tachek Creek zone, a crowded feldspar-quartz-biotite porphyry dyke approximately 7 metres wide trends northeast-southwest and dips moderately to the northwest. A second dyke approximately over 40 metres wide is composed of feldspar hornblende-quartz eye porphyry. This dyke trends northwest-southeast and dips rather steeply to the northeast. An andesite dyke approximately 5 metres wide intrudes the feldspar hornblende-quartz eye porphyry dyke. This andesitic dyke trends northeast-southwest and dips steeply northwest.

Mineralized veinlets are rare in the quartz monzonite unit with two being mapped within the northern part Tachek Creek. All veinlets trend along fault planes and are 2-3 centimetres wide. A narrow quartz veinlet (3 cm wide) trends approximately north-south along a reverse fault plane and dips steeply to the west. A second quartz-carbonate veinlet trends approximately east-west along an oblique-slip fault plane dipping moderately to steeply north.

In general, the quartz monzonite intrusive unit that host copper mineralization at the Topley Property is moderately deformed by faulting and fracturing leaving open spaces for mineral deposition.

Basic dykes, weakly magnetic and up to 1 metre wide, were also noted cutting the granitic rocks in this exposure area. These dykes, believed to be of post-mineral or Tertiary age, have chilled margins and occupy the northerly trending fracture set. The southern exposure area in Tachek Creek features variably weathered granodiorite cut by the fractures with the same orientation as those in the northern area. The contact between the granitic rocks and the volcanic-sedimentary sequence is not exposed and is based largely on data obtained from 1973 drilling.

Chlorite and sericite schists in the northern parts of the claims contain numerous quartz veins ranging in width from several centimetres to 0.5 metre. The veins, which occupy northerly trending planes of schistosity, commonly pinch and swell but appear to be continuous along strike. Locally, the veins border on pegmatite with some K-feldspar, but generally they are milky white with some possible manganese staining.

Deposits with volcanogenic massive sulphide affinities and containing precious metals values include Topley-Richfield-10 km north of Topley, the Trek prospect-5 km northeast of the dormant Granisle Mine, and the Fireweed silver-lead-zinc prospect-12 km west of the Bell Copper mine. This information concerning these nearby properties is not intended to imply similar mineralization occurring on the Topley property.

The author has therefore interpreted that the quartz monzonite intrusive units, whether they be Topley or Spike Peak, host the copper mineralization on the Topley Property. These intrusive units are moderately deformed by faulting and fracturing leaving open spaces for mineral deposition.

7.4 PROPERTY MINERALIZATION

Six MinFile occurrences are located within the Topley Property as shown on the claim map, Figure 2, and on the property geology map, Figure 5. All are classed as showings except for the one labelled Tachi, which is classed as a prospect. In the MinFile type of classification system this means it is more advanced in its development. All occurrences consist of sulphide mineralization, mainly pyrite and chalcopyrite, except for the Chris showing, which consists of limestone.

7.4.1 Tachi Prospect (93L 144)

The Tachi area is underlain by Permian to Triassic Takla Group rocks and Lower to Middle Jurassic Hazelton Group schistose volcanics comprised mainly of andesitic flows, tuff and breccia that strike northwards and dip steeply east. These rocks are intruded by granodiorite of the Middle Jurassic Spike Peak Intrusive Suite, which underlies the area in the area of the prospect.

The Spike Peak intrusions are comprised mainly of granodiorite to quartz monzonite. They are crosscut by biotite-quartz-feldspar porphyry dikes that have irregular, commonly brecciated contacts and strike predominantly east.

Alteration products include sericite on feldspars and incipient chloritization of biotite. More altered varieties of the intrusive exhibit porphyroblasts of potash feldspar plus epidote, chlorite, potash feldspar and magnetite in and marginal to numerous fractures.

Sulphide mineralization, consisting of pyrite, chalcopyrite, and molybdenite appears to be widespread marginal to the biotite-quartz feldspar porphyry dikes. In general, the molybdenum is restricted to potash feldspar rimmed fractures, while chalcopyrite occurs both in fractures and as disseminations in both the granitic rocks and the porphyries.

Copper mineralization and related secondary copper oxide minerals and other sulphides observed on the Topley claims include, in order of abundance; malachite, chalcopyrite, magnetite, pyrite, molybdenite, azurite, and bornite. These minerals are consistent with a widespread copper/molybdenite porphyry system on the Topley claims. The mineralized porphyry system extends, in areas mapped, from Tachek Creek north to Tachek Creek south, a north-south distance of approximately 1,125 metres.

Copper mineralization is hosted almost exclusively within Middle Jurassic Spike Peak Intrusive Suite quartz monzonite rocks. Three types of controls on copper mineralization were observed within the quartz monzonite intrusive rocks on the Topley claims.

1. Fracture-controlled copper mineralization consisting of malachite and chalcopyrite is most common on the Topley claims. Less common are fractures containing molybdenite and azurite that were mapped in Tachek Creek north and to a lesser extent in Tachek Creek south. Magnetite is common in Tachek Creek north (disseminated/along fractures) and is a common constituent of potassic alteration zones in porphyry deposits. The hydrothermal deposition in fracture fillings indicate the presence of base metals and thus the author concludes there is a possibility of porphyry type deposition.
2. Fault-controlled copper mineralization consisting of chalcopyrite, malachite, molybdenite, azurite and associated magnetite was observed in both north and south Tachek Creek but is most common in the northern regions of Tachek Creek north. Numerous faulting on the Topley Property has localized high concentrations of copper mineralization along fault planes extending up to approximately 2 metres into the quartz monzonites on either side of the fault plane. These zones are typically gossanous and contain trace to 2 per cent

disseminated chalcopyrite, weak to strong malachite (to a lesser extent azurite), and trace-1 per cent molybdenite. High concentrations of blebby magnetite are common within these faulted zones. Pinkish zeolite and very weak calcite fill fractures near strongly faulted zones.

3. Dikes and dike swarms usually occur in zones of weakness produced by earlier faulting and tend to concentrate copper mineralization. Here copper mineralization and sulphides (chalcopyrite, pyrite, molybdenite, and malachite) increase marginal to porphyry and diabase dikes. These dykes have sharp contacts and chill margins. Trace amounts of copper mineralization consisting of malachite and chalcopyrite were seen in diabase and crowded porphyry dikes as disseminations and along fractures.

Two types of rare, mineralized veinlets were mapped at Tachek Creek north. Firstly, a single quartz-chlorite veinlet approximately three centimetres wide contained trace chalcopyrite. The quartz ranges in texture from massive white quartz to vuggy-drusy quartz. Secondly, a single vuggy-drusy quartz carbonate veinlet mineralized with malachite and chalcopyrite was mapped and is two centimetres wide. Semi-massive to massive chalcopyrite stringers and blebs about 1-2 centimetres wide were observed in float within Tachek Creek north

Mineralization appears more widespread marginal to the younger porphyry dikes. Samples from granitic rocks contained low copper values (0.126-0.124 per cent), molybdenum values up to 0.17 per cent and a single value of 1.2 grams per tonne gold (Carter 1988)

Schists north of the highway contain numerous quartz veins up to two metres in width. The veins generally occupy planes of schistosity. Samples contained up to 2.2 grams per tonne silver, 0.005 to 0.01 gram per tonne gold and up to 0.473 per cent copper (Carter 1988).

7.4.2 Pro Showing (93L 225)

Lower Jurassic Hazelton Group rocks consisting of andesitic pyroclastics with associated argillaceous and siliceous sedimentary rocks are intruded by quartz diorite and associated diorite. Traces of chalcopyrite and molybdenite were found as disseminations and fracture fillings in the intrusive as well as 1.0 to 3.0 per cent pyrite (Carter 1988).

7.4.3 Jill Showing (93L 242)

The Jill area is underlain by Lower to Middle Jurassic volcanic rocks of the Hazelton Group. The volcanics are comprised mainly of andesite, andesitic flows, tuff and breccia. The volcanics are intruded by a Jurassic Topley Intrusion comprised of granodiorite and associated quartz-feldspar porphyry dikes. Pyrite and traces of chalcopyrite occur as disseminations in the volcanics and the intrusion as well as in veins associated with the intrusion.

7.4.4 Gold Dust Showing (93L 315)

Copper mineralization and related secondary copper oxide minerals and other sulphides observed on the Topley claims include, in order of abundance; malachite, chalcopyrite, magnetite, pyrite, molybdenite, azurite, and bornite. These minerals are consistent with a widespread copper/molybdenite porphyry system on the Topley claims.

7.4.5 Cortina Showing (93L 192)

Lower to Middle Jurassic Hazelton Group volcanics comprised mainly of andesitic to rhyolitic flows, tuff and breccia are intruded by a Cenozoic Babine Intrusion consisting of granodiorite and associated biotite-feldspar porphyry dikes. Chalcopyrite and pyrite occur as disseminations and as fracture fillings in the porphyry intrusion and marginal to the contact zone.

7.4.6 Chris Showing (93L 307)

Limestone outcrops 8.5 kilometres southwest of Topley Landing. The deposit is hosted by Lower Jurassic Telkwa Formation volcanic rocks. Five grab samples of limestone from the deposit averaged 77.87 per cent $CaCO_3$, 0.74 per cent $MgCO_3$, 0.244 per cent iron and 16.72 per cent insolubles.

7.5 SIGNIFICANT PROPERTIES WITHIN THE AREA

There are a number of mineral deposits and occurrences in the vicinity of the Topley Property, the most significant and relevant of which are summarized below. The descriptions are taken from information publicly disclosed by the owner or operator of the adjacent property and posted to the BC government's MinFile website and the locations are as shown on Figure 4, the Regional Geology Map. The author has been unable to verify this information. This information is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

7.5.1 Granisle Mine

The Granisle Mine, a past producer, is located 21 km north of the Topley Property on MacDonald Island and is currently owned by Glencore Canada Corp.

This island is underlain by Lower Jurassic Telkwa Formation (Hazelton Group) volcanics comprised of green to purple, waterlain andesite tuffs and breccias with minor intercalated chert pebble conglomerates in the central and eastern parts of the island. These rocks strike northerly and dip at moderate angles to the west and are overlain in the western part of the island by massive and amygdaloidal andesitic flows and thin bedded shales.

Copper mineralization at the Granisle mine is associated with a series of Eocene Babine Plutonic suite which occur in the central part of the island. The oldest is an elliptical plug of dark grey quartz diorite approximately 300 by 500 metres in plan. The most important intrusions are biotite-feldspar porphyries of several distinct phases which overlap the period of mineralization. The largest and oldest is a wide northeasterly trending dike which is intrusive into the western edge of the quartz diorite pluton. The contact is near vertical and several small porphyry dikes radiate from the main dike. This dike is bounded by two parallel northwest-striking block faults. The westernmost crosses the island south of the mine and the eastern fault extends along the channel separating the island from the east shore of Babine Lake.

An oval zone of potassic alteration is coincident with the ore zone with the main alteration product being secondary biotite. It is gradational outward to a quartz-sericite-carbonate-pyrite zone which is roughly coaxial with the ore zone. The pyrite occurs as disseminations or as fracture-fillings. Mafic minerals are altered to sericite and carbonate with plagioclase clouded by sericite. Beyond the pyrite halo, varying degrees of propylitic alteration occurs in the volcanics with chlorite, carbonate and epidote in the matrix and carbonate-pyrite in fractured zones. Clay mineral alteration is confined to narrow gouge in the fault zones.

The principal minerals within the ore zone are chalcopyrite, bornite and pyrite. Coarse-grained chalcopyrite is widespread, occurring principally in quartz-filled fractures with preferred orientations of 035 to 060 degrees and 300 to 330 degrees with near vertical dips. Bornite is widespread in the southern half of the ore zone with veins up to 0.3 metres wide hosting coarse-grained bornite, chalcopyrite, quartz, biotite and apatite. In addition, the mineralization contains gold and silver values. Also, molybdenite occurs within the ore zone, most commonly in drusy quartz veinlets which appear to be later than the main stage of mineralization. Magnetite and specularite are common in the north half of the ore zone where they occur in fractures with chalcopyrite and pyrite. Pyrite occurs in greatest concentrations peripheral to the orebody as blebs, stringers, and disseminations.

Mining at Granisle was suspended in mid-1982. Production from 1966 to 1982 totalled 52,273,151 tonnes yielding 69,752,525 grams of silver, 6,832,716 grams of gold, 214,299,455 kilograms of copper and 6,582 kilograms molybdenum. Unclassified reserves are 14,163,459 tonnes grading 0.442 per cent copper (Noranda Mines Ltd. Annual Report 1984). This information is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

7.5.2 Bell Copper

The Bell Copper Mine, also a past producer, is located 28 km north of the Topley Property and is also owned by Glencore Canada Corp.

The Bell mine is a porphyry copper deposit hosted primarily in a biotite-feldspar porphyry stock of the Eocene Babine Plutonic Suite. The stock is crosscut by the northwest-trending Newman fault which juxtaposes the two groups that host the intrusion. These groups are the Lower Jurassic Saddle Hill Formation (Hazelton Group) and the Lower Cretaceous Skeena Group. Telkwa Formation rocks are primarily fine-grained tuffs and andesites and the younger Skeena Group rocks are mostly fine-grained greywackes.

The copper mineralization occurs in a crescent-shaped zone along the western contact of the porphyry plug. Better grades of copper mineralization are contained in a 60 by

90-metre thick, flat-lying, blanket-like deposit which is connected to a central pipe-like zone, centred on the western contact of the intrusive. The pipe-like zone of copper mineralization is 150 metres in diameter and extends to a depth of at least 750 metres. Chalcopyrite and lesser bornite occur as disseminations in the rock matrix, in irregular quartz lenses and in a stockwork of 3-to-6-millimetre quartz veinlets which cut the feldspar porphyries and the siltstones. Molybdenite is rare and occurs in the feldspar porphyry in the northern part of the mineralized zone. Gold occurs as electrum associated with the copper mineralization. Specular hematite and magnetite are common in quartz veinlets and hairline fractures. There is also significant supergene enrichment with chalcocite coating chalcopyrite. A supergene chalcocite zone capped the deposit and extended to depths of 50 to 70 metres. Some gypsum together with copper-iron sulphate minerals and iron oxides were also present.

The ore zone has pervasive potassic (mainly biotitization) alteration with a surrounding concentric halo of chlorite and sericite-carbonate alteration (propylitic and argillic) which corresponds to the two-kilometre pyrite halo which surrounds the deposit. A late quartz-sericite-pyrite-chalcopyrite alteration has been superimposed on part of the earlier biotite-chalcopyrite ore at the western part of the orebody. Veinlets of gypsum are present in the upper part of the orebody. Anhydrite is a significant component in the biotite-chalcopyrite zone but is not present in other alteration facies.

By 1967, mineable reserves of 42 million tonnes of ore had been defined grading 0.50 per cent copper, 0.35 gram per tonne gold, and 1.0 gram per tonne silver, within an overall geological ore reserve of 116 million tonnes grading 0.48 per cent copper, 0.35 gram per tonne gold, 1.0 gram per tonne silver and less than 0.005 per cent molybdenum (Canadian Institute of Mining and Metallurgy Special Volume 15). Production began in 1972, and by December 31, 1990, approximately 71 million tonnes of ore had been processed. Reserves in the open pit and in the Extension Zone were (in 1990) 71,752,960 tonnes grading 0.23 gram per tonne gold, 0.46 per cent copper and 0.48 gram per tonne silver (Noranda Inc. Annual Report 1990). This information is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

7.5.3 Fireweed

The Fireweed occurrence is located on the south side of Babine Lake 33 km northwest of the Topley Property and is currently owned by Regulus Inc. This information regarding the Fireweed occurrence is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

In the occurrence area, Upper Triassic to Lower Jurassic Takla Group volcanic rocks, predominantly augite feldspar flows, outcrop along the west shore of Babine Lake south of the west arm. Maroon to green tuffs, sandstones, siltstones and shales of the Lower to Middle Jurassic Hazelton Group are exposed north, east and west of Babine Lake. Middle Jurassic to Upper Cretaceous marine to nonmarine clastic sediments, the Bowser Lake and Skeena groups (Kitsuns Creek Formation), are found adjacent to the Hazelton

Group on the north shore and east and west of Babine Lake. Eocene Babine Intrusive plugs outcrop northwest and southeast of the property (Geological Survey of Canada Open File 2322).

The volcanics are commonly fine grained, maroon to green andesitic to dacitic tuffs and lapilli tuffs. Interbedded mudstones, siltstones and sandstones of a thick deltaic sequence appears to underlie much of the area and are thought to belong to the Kitsuns Creek Formation of the Lower Cretaceous Skeena Group. The sediments commonly strike 070 to 080 degrees and dip subvertically. Locally, the strike varies to 020-030 degrees at the discovery outcrop, the MN showing. Several diamond-drill holes have intersected sills of strongly altered feldspar porphyritic latite.

Skeena Group sediments are dominantly encountered in diamond drilling. The sediments are dark and medium to light grey and vary from mudstone and siltstone to fine and coarse-grained sandstone. Bedding can be massive, of variable thickness, changing gradually or abruptly to finely laminated. Bedding features such as rip-up clasts, load casts and crossbedding are common. The beds are cut by numerous faults, many of them strongly graphitic. Drilling indicates Skeena Group sediments are in fault contact with Hazelton Group volcanic rocks. Strongly sericitized and carbonatized latite dikes cut the sediments.

Mineralization generally occurs in one of three forms: 1) breccia zones are fractured or brecciated sediments infilled with fine to coarse grained, massive pyrite-pyrrhotite and lesser amounts of sphalerite, chalcopyrite and galena; 2) disseminated sulphides occur as fine to very fine grains which are lithologically controlled within coarser grained sandstones, and comprise pyrite, marcasite, sphalerite, galena and minor tetrahedrite which are usually found interstitial to the sand grains; and, 3) massive sulphides, which are fine grained, commonly banded, containing rounded quartz-eyes and fine sedimentary fragments that occur as distinct bands within fine-grained sediments. The massive sulphides generally contain alternating bands of pyrite/pyrrhotite and sphalerite/galena. They are associated with the breccia zones and are commonly sandwiched between altered quartz latite dikes.

Alteration in the sediments occurs in the groundmass and appears associated with the porous, coarse sandstones. Common secondary minerals are quartz, ankerite, sericite, chlorite and kaolinite.

Three main zones have been identified by geophysics (magnetics, induced polarization) and are named the West, East, and South zones. Three other zones identified are the 1600, 3200 and Jan zones.

The West zone is defined by an east trending, horseshoe-shaped induced polarization conductor. The original outcrop discoveries, the MN and the Sphalerite showings, lie at the westerly end of each of the prongs of the horseshoe. Drilling has defined a mineralized area 300 metres long which is open along strike and depth. Mineralization has been found in Skeena Group sediments to 200 metres depth. The bulk of the mineralization is hosted by coarse sandstone, in two parallel southwest plunging shoots, which are 30 to 60 metres wide combined.

Canadian United Minerals acquired the Fireweed claims in 1987 and began aggressive development over the next two years. This work included preliminary geological mapping, soil geochemistry, magnetometer and EM surveys and over 14,000 metres of NQ diamond drilling. The surface showing of the pyritic sandstone in the West zone assayed 344.0 grams per tonne silver over 9 metres (Property File Placer Dome - Callahan, 1988) and one drillhole sample assayed 2098.4 grams per tonne silver, 8.9 per cent lead and 2.8 per cent zinc (Property File Placer Dome - Callahan, 1989). Indicated reserves for the West zone are 584,500 tonnes grading 341.77 grams per tonne silver, 2.22 per cent zinc and 1.34 per cent lead or, at a higher cut-off, 399,124 tonnes grading 456.2 grams per tonne silver, 1.62 per cent lead and 2.7 per cent zinc (George Cross Newsletter No.66, 1989). These reserve estimates are for the nearby Fireweed Property and are not necessarily indicative of mineralization on the Topley Property which is the subject of this report.

Minnova Inc. optioned the property in 1990 and a year later conducted induced polarization and resistivity surveys.

A flat lying, funnel-shaped feeder zone near the eastern limits of the West zone covers an area 90 by 90 metres and extends to a depth of 75 metres but does not outcrop. Sandstone and mudstone interfinger throughout this area. Pyrrhotite, pyrite, sphalerite and chalcopyrite occur as massive sulphide mineralization associated with breccia and veins which cement mudstone and sandstone fragments that are millimetres to several metres in size. These zones of mineralization grade into unbrecciated or weakly veined areas. The sulphide content is variable and there are two distinct generations of veining. One contains massive sphalerite, the other massive pyrite and pyrrhotite. The breccia veins cut sericitized latite dikes. The feeder zone also contains minor gold and copper values. A selected assay grades 124.1 grams per tonne silver, 7.25 per cent zinc, 3.32 per cent lead, 0.13 per cent copper and 0.8 gram per tonne gold across 6.2 metres (Exploration in British Columbia 1988, page B130).

The MN showing is hosted in fine to medium-grained sandstone with heavy manganese coating lying in the massive beds which dip subvertically with a local strike of 030 degrees. The sandstone is quartz-carbonate-sericite cemented. Minor pyrite, sphalerite and galena are associated with increased manganese content. Diamond-drill hole intersections returned assays of up to 68.6 grams per tonne silver, 3.5 per cent zinc, 0.6 per cent copper, 2 per cent lead and anomalous gold (George Cross Newsletter No. 37, 1988).

The Sphalerite showing is 300 metres to the north of the MN showing. Outcrop is characterized by a strong, rusty yellow stain with sphalerite stringers crosscutting mudstone and sandstone. Surface samples from this zone have assayed up to 20.24 grams per tonne silver and 24,511 parts per million (2.45 per cent) zinc (Property File Rimfire - Canadian United Minerals Inc., 1990).

The East zone has a strike length of at least 500 metres and a 40-metre thickness containing sulphide-cemented breccia and veining. This zone is 2.4 kilometres east along strike from the West zone. Mineralization is in the form of pyrite and pyrrhotite with lesser sphalerite and chalcopyrite. A diamond-drill hole intersection across 2.98 metres assayed 22.62 grams per tonne silver, 2.97 per cent zinc, 0.27 per cent copper and 0.47 gram per tonne gold (George Cross Newsletter No. 85, 1989).

The 1600 zone is 500 metres west of the MN showing (south prong of the horseshoe-shaped West zone) and consists of a number of parallel sulphide horizons up to 2 metres wide with a strike length of 600 metres. Three diamond-drill holes have tested the zone over a 150-metre strike with grades up to 3.26 grams per tonne gold, 269.3 grams per tonne silver, 11.1 per cent lead, 10.9 per cent zinc and 0.15 per cent copper over 4 metres (Property File Rimfire - Canadian United Minerals Inc., 1990).

The Jan zone is 1 kilometre west-northwest of the MN showing (north prong of the horseshoe-shaped West zone). The 3200 zone is 1 kilometre east of the West zone, and the South zone is 500 metres south-southeast of the 3200 zone.

7.5.4 Topley-Richfield

The Topley-Richfield occurrence is located on the southwest slope of Tachek Mountain 18 km south-southwest of the Topley Property and is owned by Pacific Empire Minerals Corp. This information regarding the Topley-Richfield occurrence is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

The Topley Richfield property is underlain by Lower-Middle Jurassic Saddle Hill Formation rocks (Hazelton Group) in the eastern part of the Skeena Arch. Overburden in the area can be more than 50 metres thick. Mineralization is hosted primarily in pyroclastic rocks comprised of feldspar crystal tuff with lesser lithic tuffs, greywackes and thin beds of argillite. Pyroxene-bearing andesitic flows of the Early Jurassic Nilkitkwa Formation (Hazelton Group) are located on the western portion of the property.

Mineralization is structurally controlled and occurs in two alteration zones which strike north-northwest (350 degrees) and dip 45 degrees to the southwest. The zones range from 10 to 40 metres in width and are about 25 metres apart. They are characterized by pervasive silicification, brecciation, sideritic alteration and quartz and calcite veining. Bladed ankerite occurs commonly in calcite vugs. Pyrite is the most abundant sulphide with minor native gold, native silver, tetrahedrite, arsenopyrite, galena, sphalerite and chalcopyrite occurring as stringers, disseminations, and blebs.

Lenses containing stronger sulphide mineralization occur within the alteration zones and are called the B/C and D zones. These lenses vary in width from 1 to 5 metres apart and rake to the southwest. Two intersections in the B/C lens in 1980 assayed 5,486 grams per tonne silver over 20 centimetres, and 4.8 grams per tonne gold with 202 grams per tonne silver over 7.6 metres, respectively. Drill indicated reserves at Topley Richfield are 181,420 tonnes grading 4.25 grams per tonne gold and 191.96 grams per tonne silver.

7.5.5 Trek Showing

The Trek, also known as the Red, occurrence is located 25 km north of the Topley Property to the east of Babine Lake and is owned by Ken Galambos, P.Eng.

The claims are underlain by Lower Jurassic Hazelton Group, Telkwa Formation volcanics comprised of andesitic to basaltic flows and tuff with intercalated greywacke, argillite, and graphitic shale. The volcanics are intruded by an Eocene Babine Intrusion comprised of porphyritic granodiorite. The Hazelton rocks are unconformably overlain by interbedded sandstone, shale, and mudstone of the Sustut Group. Also, north of the claims a medium-grained diorite with lesser hornblende porphyry were noted cutting interbedded andesite tuff and argillaceous siltstone with some banded greywacke.

Drilling near the central part of the property indicated it is underlain by an interbedded sequence of moderately dipping, fragmental andesites and black argillaceous, locally graphitic sediments. Drill intersections from intersections of up to 1.5 metres of disseminated, stringer and massive banded pyrrhotite, pyrite with minor chalcopyrite were found in the graphitic zones. Banding appears to be conformable with layering in the host rock. A basic dike was seen to cut the stringer and massive banded sulphides in addition to the more common post-mineral shearing and narrow carbonate filled fractures.

Sulphide mineralization also consists of disseminated pyrite with magnetite in the Hazelton rocks with minor disseminated and fracture filling pyrite and pyrrhotite in graphitic sections.

In 1966, Bethex reported a 0.3 metre quartz-carbonate vein occurring in the Hazelton rocks hosting galena, sphalerite, and chalcopyrite. The vein strikes 074 degrees dipping 75 degrees northeast in greywacke near the northwest corner of the Red 2 claim.

Drilling to 1994 in the southern part of the RED property has identified massive and stringer sulphides within a 30-metre-wide zone and extending over a strike length of more than 200 metres. That part of the sulphide zone tested to date is reflected by a moderate to strong HLEM conductor, an IP anomaly and a coincident magnetic high probably due to the pyrrhotite content.

This information regarding the Red Showing is not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report.

8 MINERAL DEPOSIT TYPES

8.1 PORPHYRY COPPER, MOLYBDENUM, AND/OR GOLD DEPOSITS

The main mineral deposit types of interest on the Topley Property are porphyry copper, porphyry copper/gold, and porphyry copper/molybdenum which are the main types of

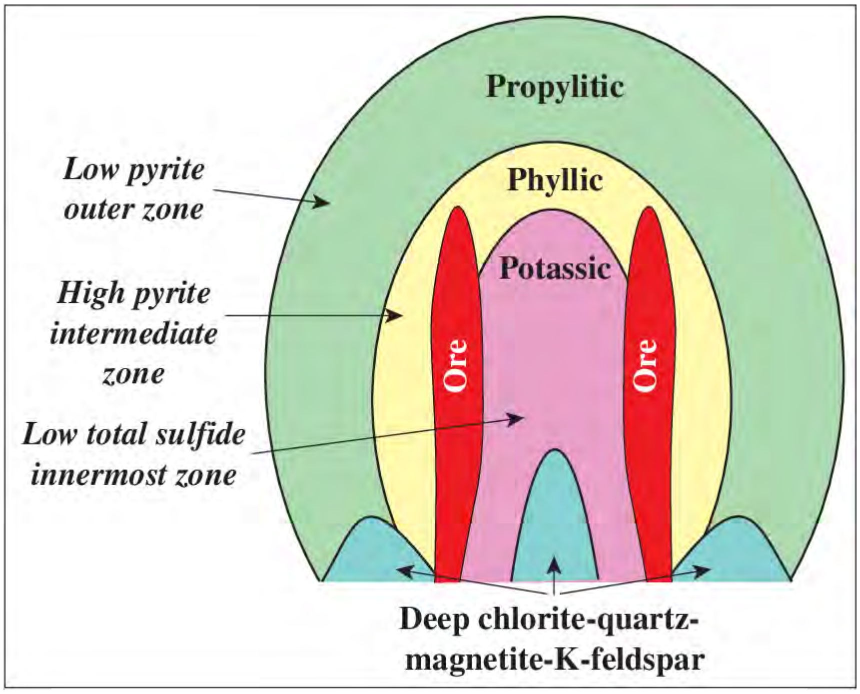


Figure 6- Hydrothemal alteration and sulphide zoning patterns in the Lowell-Guilbert model of porphyry copper deposits (after Lowell and Guilbert, 1970)

mineralization known in the area. The three best known ones are the Bell Copper Mine and the Granisle Mine which are past producers and are described above, as well as the Lorraine deposit which contains minable and drill-indicated tonnage and is described below under "23 Adjacent Properties". Mineral deposit types present in the region are classified as porphyry and epigenetic characterized by disseminated, vein and breccia hydrothermal systems. A simplified model of a porphyry system deposit (Lowell & Guilbert, 1970) is illustrated below in Figure 6.

Panteleyev, (1995) describes the Porphyry Cu+/Mo+/-Au model in Selected British Columbia Mineral Deposit Profiles, Volume 1 - Metallics and Coal, Open File 1995-20, pages 87-92 as a Calcalkaline porphyry Cu, Cu-Mo, Cu-Au deposit type. Classic British Columbia examples include Brenda (092HNE047), Berg (093E 046), Huckleberrry (093E 037), and Schaft Creek (104G 015).

Host intrusions vary from coarse-grained phaneritic to porphyritic stocks, batholiths and dike swarms, with compositions that range from quartz diorite to granodiorite and quartz monzonite. There are commonly multiple emplacements of intrusive phases and a wide variety of breccias that modify the stock geometry. The deposits, as shown in the above

Figure 6, usually exhibit a lateral outward zoning of alteration and sulphide minerals from a potassic (K-feldspar and biotite) altered core through phyllic (quartz-sericite-pyrite) alteration to propylitic (chlorite-epidote-calcite). Less commonly argillic, and in the uppermost parts of some ore deposits, advanced argillic (kaolinite-pyrophyllite) alteration occurs.Characteristics of this deposit type are large zones, up to 10 km² in size, of hydrothermally altered rock containing stockworks of quartz veins and veinlets, closely spaced fractures and breccia zones containing pyrite and chalcopyrite +/- molybdenite, bornite and magnetite. Disseminated sulphide minerals are present but in minor amounts. Deposit boundaries are determined by economic factors that outline ore zones within larger areas of low-grade, concentrically zoned mineralization.

Ore controls include igneous contacts with the surrounding wallrock and internal contacts between intrusive phases; cupolas and the uppermost, bifurcating parts of stocks, dike swarms, early formed intrusive breccias and hydrothermal breccias. Ore minerals are chalcopyrite; molybdenite, lesser bornite and rare (primary) chalcocite. Subordinate minerals are tetrahedrite/tennantite, enargite and minor gold, electrum and arsenopyrite. In many deposits late veins commonly contain galena and sphalerite in a gangue of quartz, calcite and barite.

Two main periods of deposit formation occurred in the Canadian Cordillera during the Triassic/Jurassic (210-180 Ma) and Cretaceous/Tertiary (85-45 Ma). Elsewhere deposits are mainly Tertiary but range from Archean to Quaternary.

British Columbia porphyry Cu/Mo ± Au deposits range from <50 to >900 Mt with 0.2 to 0.5% Cu, 0.0 to 0.04% Mo, <0.1 to 0.6gm/t Au, and 1 to 3gm/t Ag. Median values for 40 B.C. deposits with reported reserves are: 115 Mt with 0.37% Cu, 0.01% Mo, 0.3gm/t Au and 1.3gm/t Ag.

Porphyry deposits contain the largest reserves of Cu, significant Mo resources and close to 50% of Au reserves in British Columbia.

8.2 VOLCANIC HOSTED MASSIVE SULPHIDE (VHMS) DEPOSITS

There is geological evidence that Volcanic hosted massive sulphide (VHMS) deposits may occur on the property. VHMS deposits occur within the area, and three are described above which includes (1) Topley-Richfield located 10 kilometres north of Topley, (2) the Trek prospect, located 5 kilometres northeast of the dormant Granisle Mine, and (3) the Fireweed silver-lead-zinc prospect located 2 kilometres west of the dormant Bell Copper mine. One of the best examples of a VHMS deposit is the Eskay Creek Mine which is a world class gold-silver-copper-lead-zinc deposit occurring within Hazelton Group rocks. These rock-types occur on the Topley Property.

A diagram displaying a simplified model of a VMS system is shown below in Figure 7. According to Huston, et al, (2011), geological, geochemical, and isotopic data suggests that a significant subgroup of volcanic-hosted massive sulphide (VHMS) deposits has a major or dominant magmatic–hydrothermal source of ore fluids and metals. In other words, granites, or granitic-type rocks, play an important role in the massive sulphide ore-forming mineral deposits. These deposit-types are typically characterized by high copper and gold grades with prime examples being those of the Neoarchean Doyon-Bousquet-LaRonde mining area of Quebec, and the Cambrian Mount Lyell mining area of Australia. These deposits are distinguished by aluminous advanced argillic alteration assemblages or metamorphosed equivalents intimately associated with ore zones. The evidence for the possibility of this type of deposit on the Topley Property is the Spike Peak quartz monzonite intrusive within the Tachi mineral occurrence This would provide the magmatic-hydrothermal source for the ore fluids. There is also some massive sulphide mineralization known on the property.

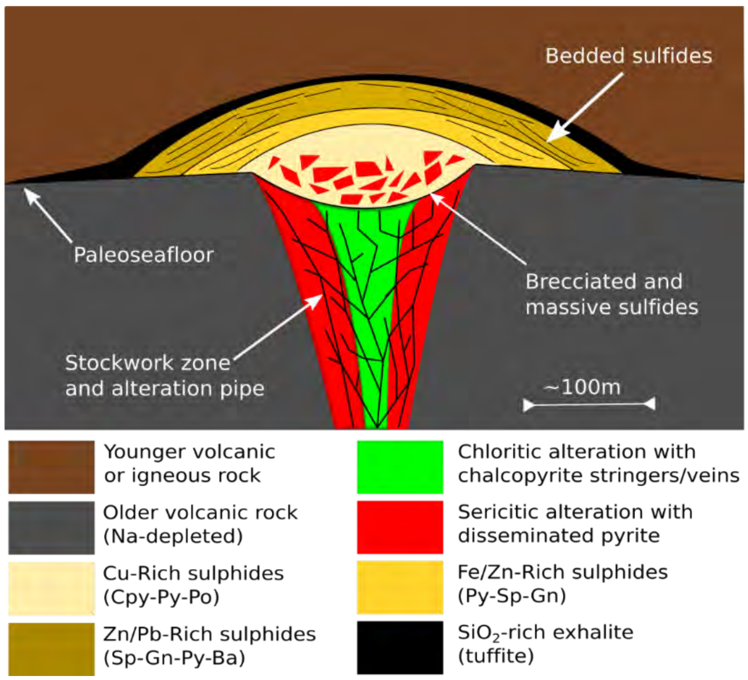
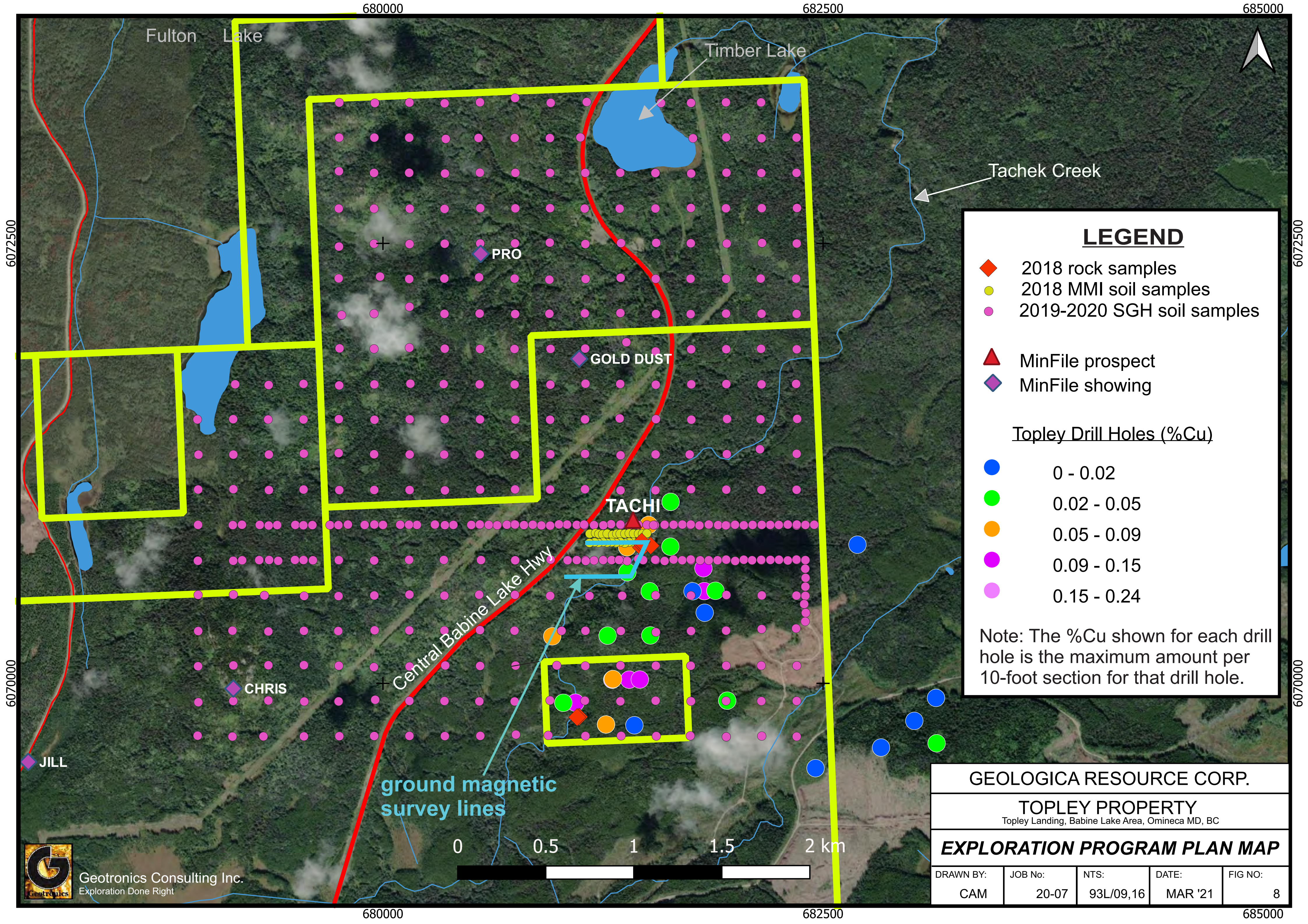


Figure 7 - (after Hannington, 2014)
Cross-section of a typical volcanogenic massive sulfide (VMS) ore deposit as seen in the sedimentary record

9 EXPLORATION

The first four Decoors claims were staked in 2018 and early 2019 and since that time, an exploration program was carried out in 2018, 2019, and 2020 by the owner, Decoors Mining Corp, on the property and consisted of rock sampling, MMI soil sampling, SGH soil sampling, and a minor amount of magnetic surveying. Prior acquired his claim in 2018 and carried out work that same year which consisted of rock sampling and the locating of roads and trenching that were overgrown and difficult to find.

Much of the historic exploration was carried out on the eastern side of the property where known mineralization occurs because of shallower overburden. It was therefore considered entirely possible that mineralization may occur within areas of deeper overburden and thus not easily detected. As a result, MMI and SGH soil sampling techniques were tested because these two


680000
682500
685000
6072500
6070000
Fulton Lake
Timber Lake
Tachek Creek
PRO
GOLD DUST
TACHI
CHRIS
JILL
Central Babine Lake Hwy
ground magnetic survey lines
0 0.5 1 1.5 2 km
LEGEND
2018 rock samples
2018 MMI soil samples
2019-2020 SGH soil samples
MinFile prospect
MinFile showing
Topley Drill Holes (%Cu)
0 - 0.02
0.02 - 0.05
0.05 - 0.09
0.09 - 0.15
0.15 - 0.24
Note: The %Cu shown for each drill hole is the maximum amount per 10-foot section for that drill hole.
GEOLOGICA RESOURCE CORP.
TOPLEY PROPERTY
Topley Landing, Babine Lake Area, Omineca MD, BC
EXPLORATION PROGRAM PLAN MAP
DRAWN BY: CAM
JOB No: 20-07
NTS: 93L/09,16
DATE: MAR '21
FIG NO: 8
Geotronics Consulting Inc.
Exploration Done Right

methods have been shown to locate mineralization at depth, perhaps up to hundreds of meters. It was then chosen to carry out SGH soil sampling over a much wider area. The location of all sample sites relative to the claim boundaries is shown on Figure 8.

9.1 Rock Sampling

Rock samples were picked up by both Decoors and Prior on their respective properties in 2018 with Decoors picking up 5 samples, and Prior, 2. The purpose of taking these samples was to verify the mineralization occurring within the Tachi Prospect.

9.1.1 Prior Rock Sampling

Prior first located three trenches on his claim that in his report, states "are not actually trenches per se but rather linear trends of steep outcrop exposure that have undergone continuous sampling. There is no evidence of blasting or digging." He then picked up sample #TC201 from the northern end of trench 10-10 and sample #TC202 from the southern end of trench 10-09, as is shown on Figure 9. These samples were submitted to TSL Laboratories of Saskatoon, Saskatchewan for major oxide whole rock analyses and trace element ICP-MS analyses (aqua regia digestion).

Both samples were collected from a so-called quartz monzonite of the Spike Peak intrusive suite. However, the whole-rock analysis showed them to be more of a granodiorite.

Sample TC201 returned 1,433 ppm (0.14 %) copper, 93.5 ppm molybdenum, 1.0 ppm silver, 53.7 ppb gold, 1.74% iron and 0.09% sulpher (aqua regia digestion). Sample TC202 returned 5031 ppm (0.5%) copper, 299.3 ppm molybdenum, 2.8 ppm silver, 856.3 ppb gold, 2.16% iron and 0.75% sulpher (aqua regia digestion). The low iron and sulphur values are consistent with the general scarcity of pyrite observed in the rocks. The presence of 0.50% copper in sample TC202 is of note as is the relatively high gold value (0.86 g/t gold).

9.1.2 Decoor Rock Sampling

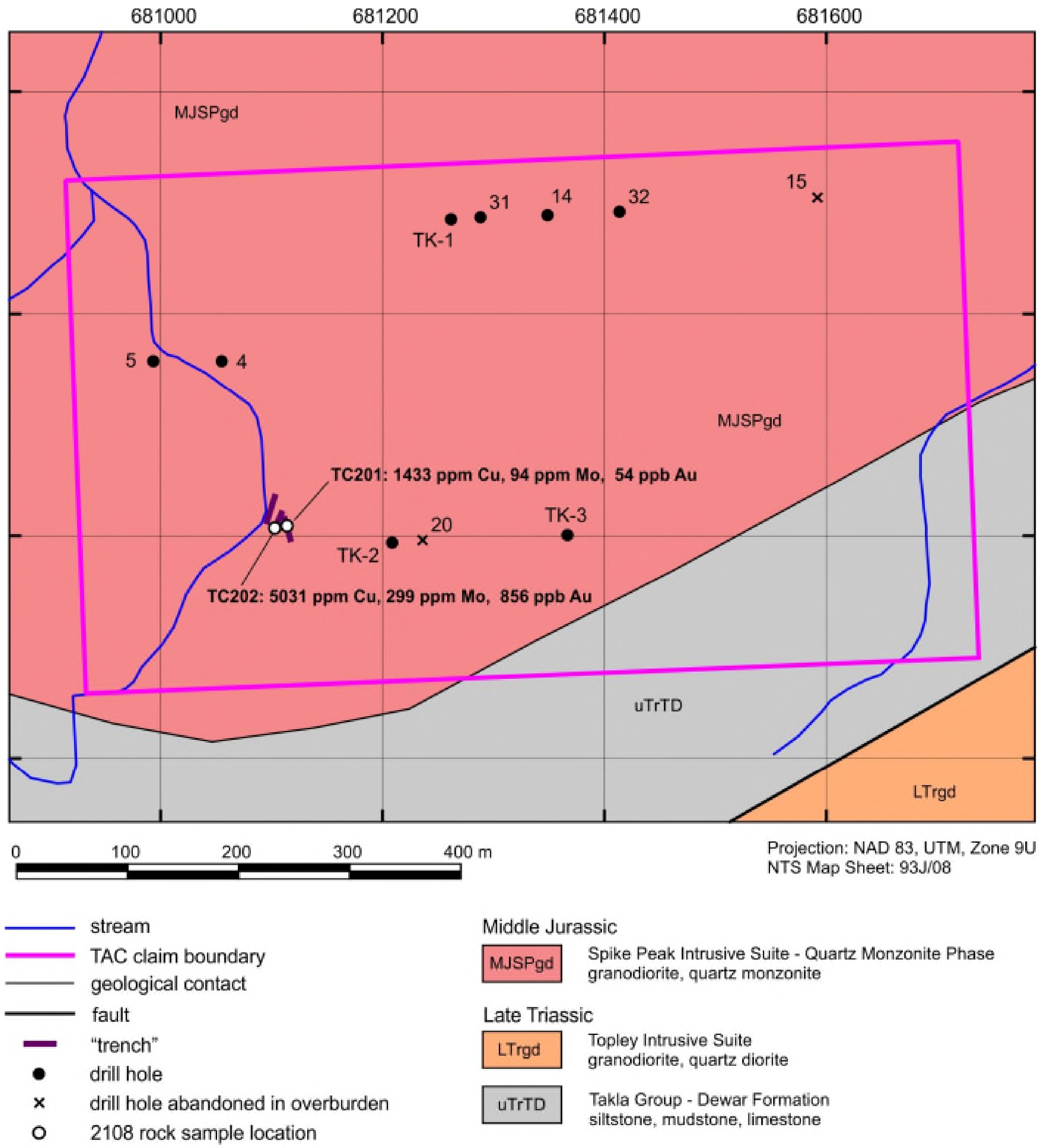
Five rock samples were collected by hammer and chisel from outcrop along Tachek Creek within the main zone of mineralization of the Tachi Prospect. The rock samples are described as follows.

1. **Rock Sample #3155, UTM easting – 681467, UTM northing - 6070772**

   Weakly oxidized and iron-stained surface with minor malachite staining. Fine intermediate porphyry (dacite?) with quartz, biotite, and plagioclase phenocrysts. Fine disseminated pyrite and chalcopyrite throughout, rare epidote grain. Sulphide mineralization approx. 3%.

2. **Rock Sample #3156, UTM easting – 681486, UTM northing - 6070783**

   Weathering limited to clay alteration of feldspar and rare green malachite. Quartz syenite with veins and seams of quartz and magnetite ranging from thin mm-scale to massive cm-thick undulating seams, also occurring as disseminated grains



Trenches, from west to east, are 10-08, 10-09 and 10-10.

Figure 9. Prior Rock Sample Map

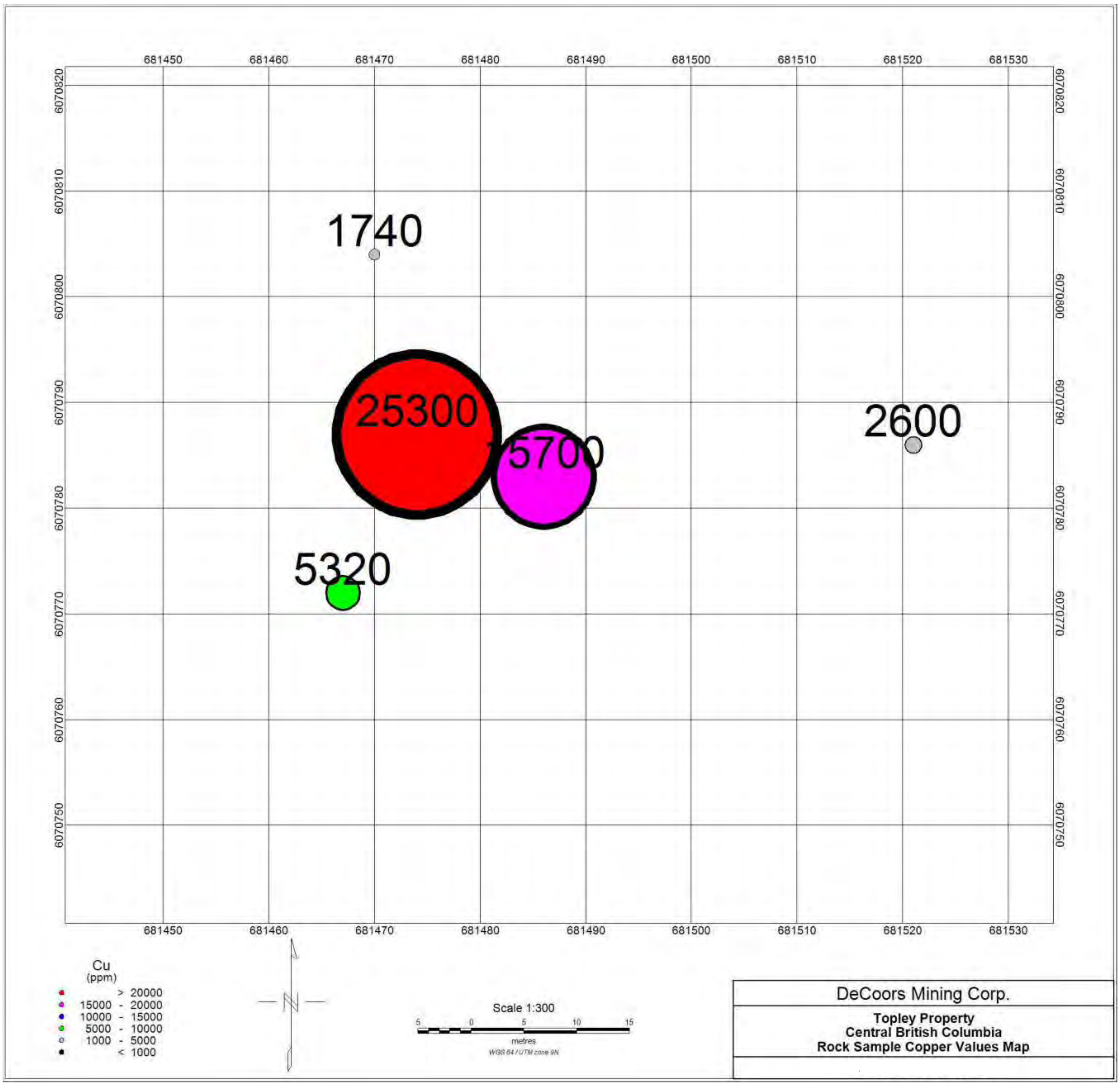


FIGURE 10 - DECOORS ROCK SAMPLE MAP - COPPER

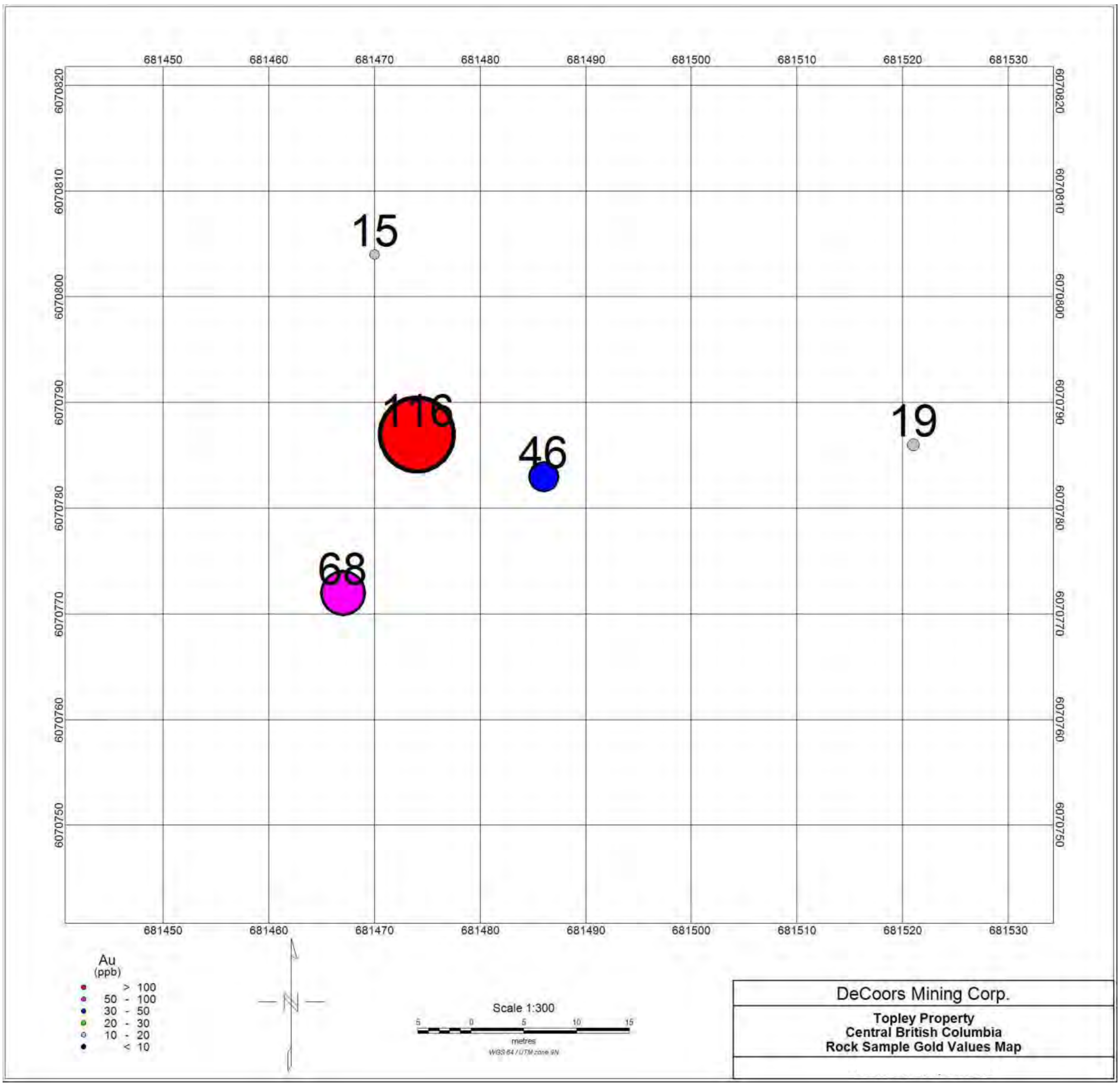


FIGURE 11 - DECOORS ROCK SAMPLE MAP - GOLD

throughout. Fine disseminated chalcopyrite and pyrite locally around magnetite-quartz seams, approx. 1%.

3. **Rock Sample #3157, UTM easting – 681474, UTM northing - 6070787**

   Minor orange-red oxidized weathered surface, minor green malachite staining on outside surface. Syenite with minor hematite staining and silicification in select areas. Sulphide mineralization ranges from approx. 1-3% as pyrite>chalcopyrite, and magnetite present as much as 5%. Higher concentrations of sulphide associated with fractures and magnetite.

4. **Rock Sample #3158, UTM easting – 681521, UTM northing - 6070782**

   Clay-weathered and iron oxide-stained surface with some green malachite staining. Silicified monzonite with magnetite grains and minor pyrite and chalcopyrite, sulphide mineralization, less than 1%.

5. **Rock Sample #23688, UTM easting – 681467, UTM northing - 6070772**

   Highly oxidized rusty weathered surface with moderate clay (sericite-illite) weathering rind. Some infrequent green malachite staining. Diorite with minor (approx. 1%) magnetite. Sulphide mineralization up to approx. 7% in select samples as pyrite and minor chalcopyrite. Sulphides occur as fine and disseminated or as coarser, semi-continuous seams. Minor chlorite alteration of some mafics.

The samples were collected by hammer and chisel and then labeled and bagged on site. They were taken over an area of 32 meters in a north direction by 56 meters in an east direction. The samples were then shipped to SGS Laboratories in Vancouver for whole rock analysis, using whole rock code ICP 90Q, which is the determination of major element oxides of a rock sample.

The copper results are shown on Figure 10 and the gold results, Figure 11. The lab analysis indicates that all samples contain copper mineralization with the results varying from 1,740 ppm (0.174 %) copper to 25,300 ppm (2.53%) copper. The three samples that contain the highest copper values occur within the southwest part of the rock sampling area and also contain anomalous gold values.

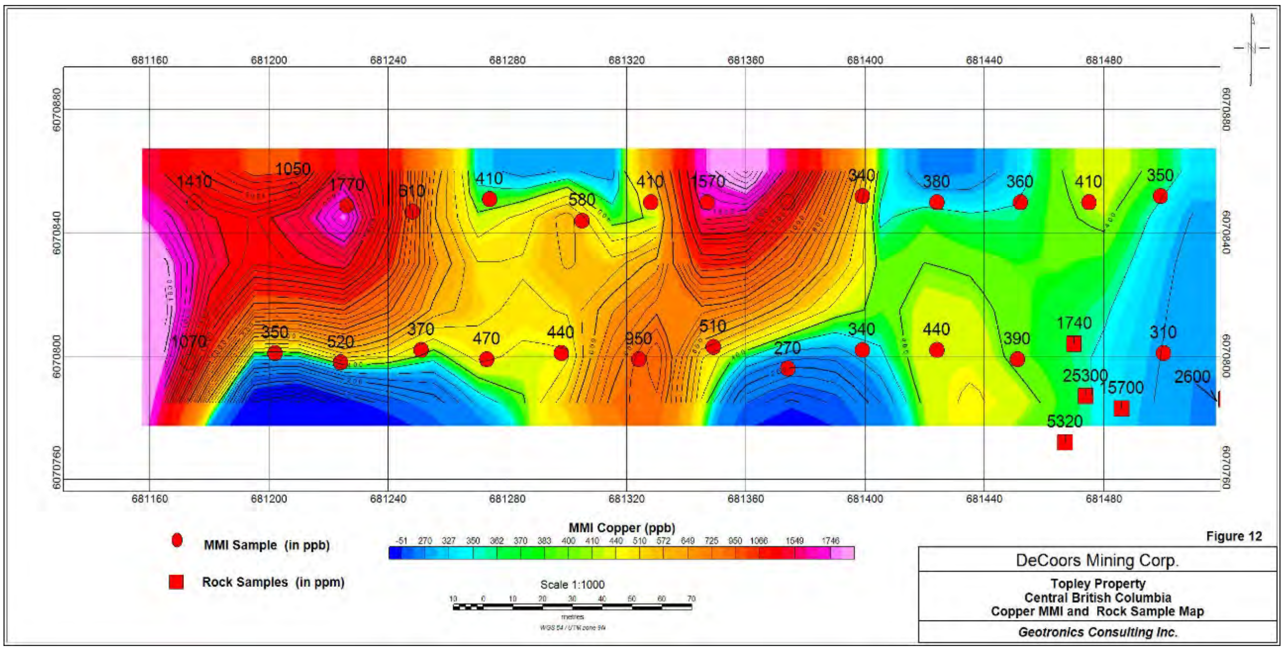
9.2 DECOORS MMI SOIL SAMPLING

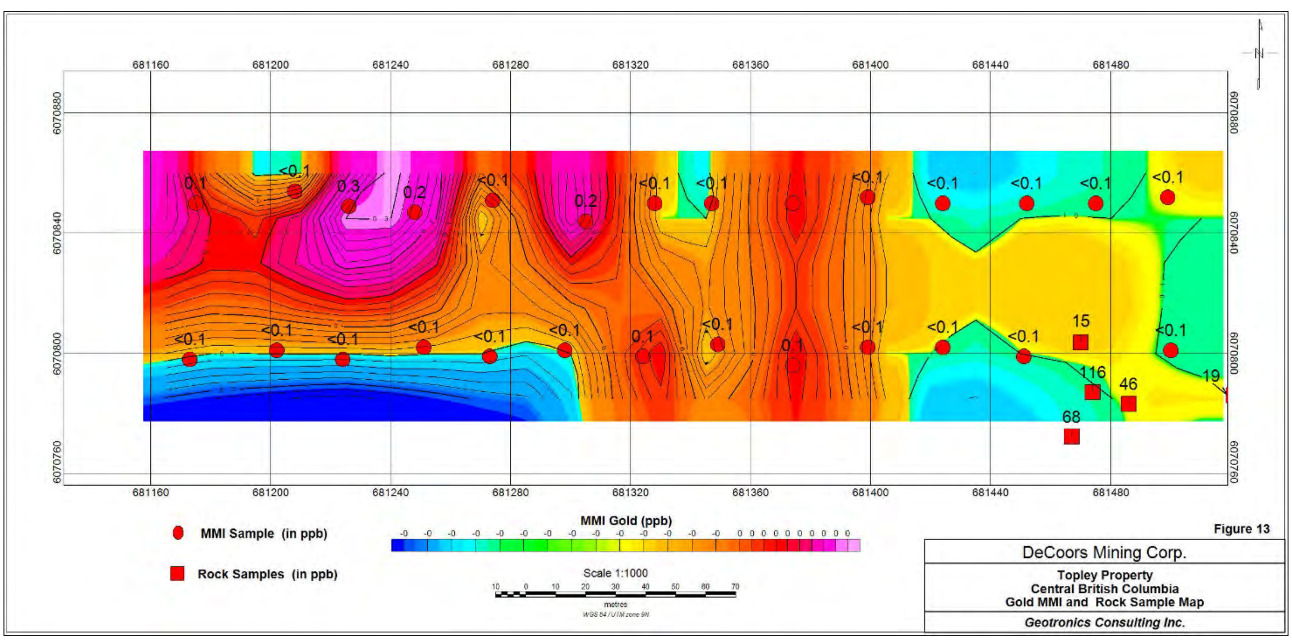
MMI stands for mobile metal ions and describes ions, which have moved in the weathering zone that are weakly or loosely attached to surface soil particles. MMI, which requires special sampling and testing techniques, are particularly useful in responding to mineralization at depth probably in excess of 700 meters, though for gold, the depth is probably closer to 300 meters. The testing uses proprietary partial extraction techniques with specific combinations of ligands to keep metals in solution. It also is not affected by glacial till, while standard soil sample techniques are. MMI is characterized in having a high signal to noise ratio and therefore can provide accurate drill targets.

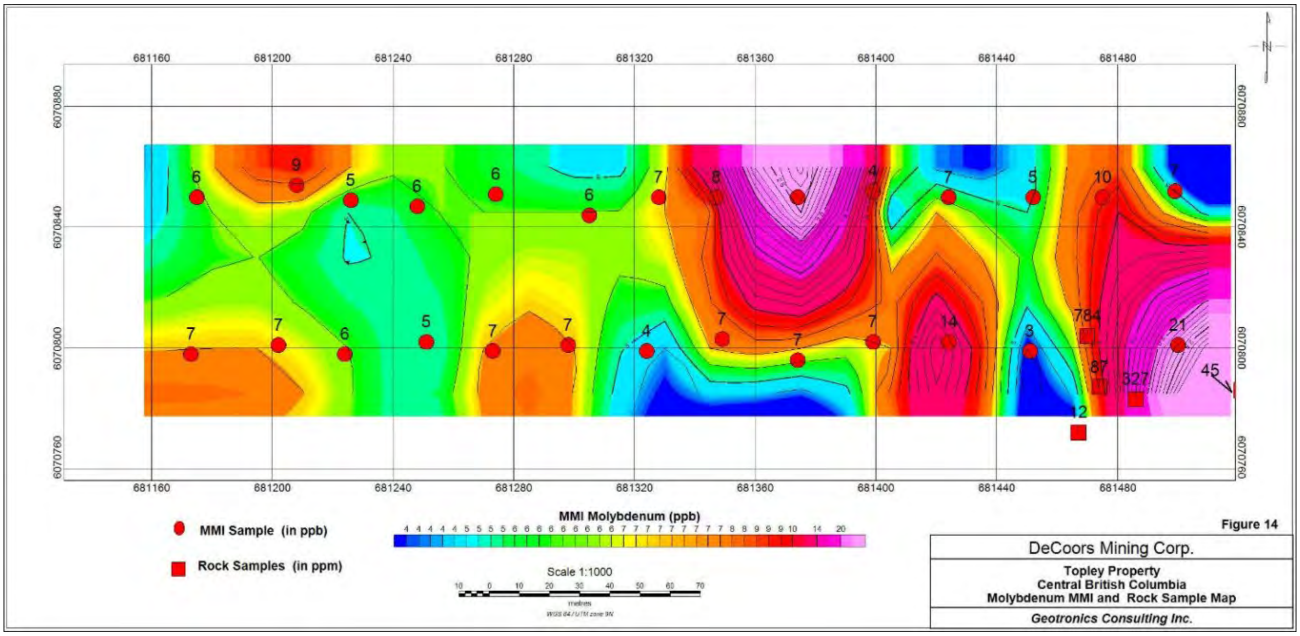
Copper mineralization was noted in Tachek Creek and thus two lines of MMI soil sampling were run westerly from the creek in order to determine the extent of the copper mineralization. The lines, 375 meters in length as shown within Figures 8 and 9, were put in 50 meters apart with the samples being taken every 25 meters.

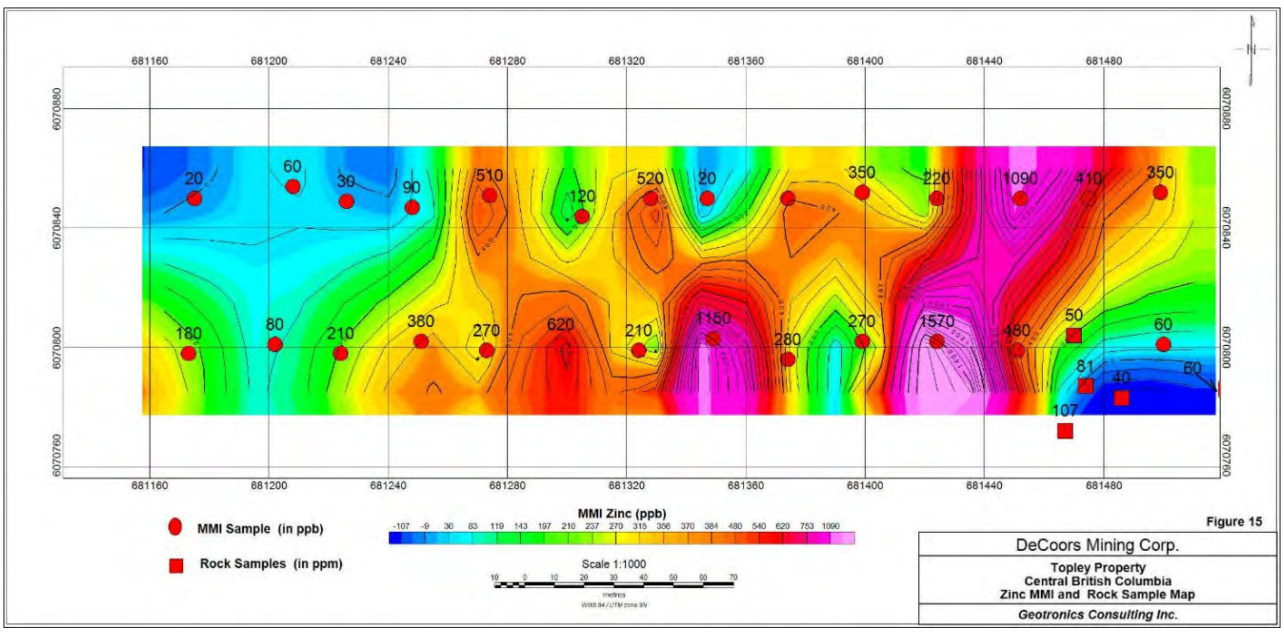
It is the author's opinion that the MMI sampling procedure and testing procedure are consistent with best practices for MMI analysis.

Four colour-contour plan maps, Figures 12 to 15, were drawn up by the author, each one being for results of copper, gold, molybdenum, and zinc, respectively, as shown below in,. The correlating lab analysis for the five rocks is also plotted within the southeast corner of each plan map.









The copper map shows two anomalies with one being within the western part of the grid area and one being within the central part. Gold anomalous results correlate directly with the copper anomalies as well as alongside them. In addition, zinc and molybdenum anomalous results occur with and alongside the copper and gold anomalous results.

The rock sample sites containing the highly anomalous copper values occur on the edge of an MMI anomaly indicating that the copper mineralization may be localized. However, since one MMI sample was missing, there were no MMI samples that were taken close to the rock sample sites. The sites of two rock samples containing anomalous molybdenum values occur within an MMI molybdenum anomaly thus explaining its causative source. The zinc values of all five rocks are non-anomalous and occur within an MMI zinc low.

Though the survey area is too small for the author to make a conclusive interpretation, the causative sources of the anomalous MMI results could be from porphyry style mineralization, or possibly even VMS style mineralization, that strikes northerly.

In conclusion, both the MMI soil sampling and the rock sampling support the premise of potential copper-gold porphyry with anomalous copper and gold values in both soil and rock samples. Examination of outcrop in Tachek Creek support the potential for porphyry mineralization on the property. The historic work showed numerous occurrences of porphyry type mineralization. This was confirmed during the work described in this report. Previous work was hampered by deep glacial cover making traditional sampling methods ineffective. MMI is likely to be able to detect porphyry style mineralization beneath this cover.

9.3 SGH Soil Sampling

Spatiotemporal Geochemical Hydrocarbon ("SGH") soil sampling was carried out over a 2-year period in 2019 and 2020. In 2019, 112 soil samples along 2 east-west lines were collected. In 2020, SGH soil sampling was carried out over a wide area of the property, 515 soil samples were collected. All the 2019 samples were sent to Activation Laboratories ("Actlabs") for analysis 305 of the 2020 soil samples were sent to ActLabs. Geologica intends to use the results of these surveys as one of its exploration tools to assist in the determination of future exploration activities.

10 DRILLING

Geologica Resource Corp. nor the owners of the claims have conducted any drilling on the property.

11 SAMPLE PREPARATION, ANALYSES AND SECURITY

11.1 Prior Rock Sampling

The 2 samples were collected using rock hammers to break the rocks into manageable sizes; the rocks were then placed in 12x20 poly sample bags, labelled with the appropriate field ID then tied off with flagging ape. The field location was flagged with the corresponding field ID.

Samples received at TSL Laboratories Inc. in Saskatoon, Saskatchewan were opened, sorted and dried prior to preparation. Rock samples were crushed using a primary jaw crusher to a minimum 70% passing 10 mesh (1.70 mm). A representative split sample was obtained by passing the entire sample through a riffler. The 250-gram sub-sample thus obtained was pulverized to a minimum 95% passing 150 mesh (106 microns). TSL is a Standards Council of Canada Accredited Laboratory – Scope of Accreditation 538.

For the whole rock analysis, a 0.2-gram sample was fused with lithium metaborate/tetraborate and then diluted with HNO_3. The solution was analyzed ICP-AES for the major oxides, Ba, Ni, Sr, Zr, Y, Nb, Sc and loss on ignition (LOI). For the Multi-Element ICP-MS Analysis (aqua regia extraction) a 0.5-gram sample was digested with 3 ml of aqua regia (3:1 HCl/HNO_3) at 95°C for 1 hour and then diluted to 10 ml with deionized water. The solution was analyzed by inductively coupled plasma mass spectrometry (ICP-MS) for 36 elements. Aqua regia digestion may fail to liberate significant proportions of several of the reported elements (depending on sample mineralogy) including Al, B, Ba, Ca, Cr, Fe, Ga, K, La, Mg, Mn, Na, P, Sn, Sr, Th, Ti, V and W.

Quality control procedures include, certified reference materials (standards) and blanks being inserted into the sample batches by TSL. The data obtained on these samples were reviewed by Glen Prior and no significant issues were detected.

In the authors opinion sample preparation, security, and analytical procedures were adequate and meet industry standards.

To the best of the authors' knowledge, there is no relationship between TSL Laboratories and either of Glen Prior or Geologica Resource Corp.

11.2 DECOORS ROCK SAMPLING

The 5 Decoors rock samples were collected using rock hammer and chisel and then labeled and bagged on site. The samples were subsequently shipped to SGS Laboratories in Vancouver for whole rock analysis in order to determine the major element and oxides of a rock sample. The samples were prepared and analyzed with whole rock code ICP 90Q

The samples were tested with a four-acid digestion with a SGS method number GE_ ICP40B (GE_ICP40Q12). The following is description of the method:

1. **Parameter(s) measured, unit(s)**: Silver (Ag); Arsenic (As); Barium (Ba); Beryllium (Be); Bismuth (Bi); Cadmium (Cd); Chromium (Cr); Cobalt (Co); Copper (Cu); Lanthanum (La); Lithium (Li); Manganese (Mn); Molybdenum (Mo); Nickel (Ni); Lead (Pb); Antimony (Sb); Scandium (Sc); Tin (Sn); Strontium (Sr); Vanadium (V); Tungsten (W); Yttrium (Y); Zinc (Zn); Zirconium (Zr), in ppm Aluminum (Al); Calcium (Ca); Iron (Fe); Potassium (K); Magnesium (Mg); Sodium (Na); Phosphorus (P); Sulphur (S); Titanium (Ti), in %
2. Typical sample size: 0.2 g
3. **Type of sample applicable (media):** Crushed and Pulverized exploration grade samples (rocks, soils and sediments)
4. **Sample preparation technique used:** Weighed representative samples are digested with HCl, HNO3, HF and HCLO4 and heated until dry. The residue is then dissolved in HNO3 and HCl.
5. **Method of analysis used:** The digested sample solution is analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).
6. **Data reduction by:** Computer, online, data fed to SGS Laboratory Information Management System with secure audit trail.

7. **Figures of Merit:** This method has been fully validated for the range of samples typically analyzed. Method validation includes the use of certified reference materials, replicates, duplicates and blanks to calculate accuracy, precision, linearity, range, limit of detection, reporting limit, specificity and measurement uncertainty.

8. **Quality control:** Quality control materials include method blanks, replicates and reference materials and are randomly inserted with the frequency set according to method protocols at ~11%. Quality control materials will also include BRM (Barren reference materials, or preparations blanks) and preparation duplicates if samples have been taken through the sample reduction process. Instrument calibration is performed for each batch or work order and calibration checks are analyzed within each analytical run.

To the best of the authors' knowledge, there is no relationship between SGS Canada Ltd. and either of Decoors Mining Corp. or Geologica Resource Corp. and all sample preparation, security, and analytical procedures were adequate by industry standards.

SGS Canada's laboratory at Production Way in Burnaby is accredited with the Standards Council of Canada as 'Accredited Laboratory No. 744', which conforms with requirements of CAN-P-1579 which are the guidelines for the Accreditation of Mineral Analysis Testing Laboratories, and CAN-P-4E (ISO/IEC 17025:2005) which are the general requirements for the competence of testing and calibration laboratories.

11.3 MMI SURVEY

The sampling procedure was to first remove the organic material from the sample site (A_0 layer) and then dig a pit over 25 cm deep with a shovel. The sides of the pit were then cleaned with a plastic garden trowel to take away any contaminating effects of the metal shovel. Sample material was then scraped from the sides of the pit over the measured depth interval of 10 centimeters to 25 centimeters. About 250 grams of sample material were collected and then placed into a plastic Zip-loc sandwich bag with the sample location marked thereon. The MMI samples were bagged in the field, tagged, and sealed on-site. A total of 27 samples were picked up and these were transported by the company to SGS Minerals located at 3260 Production Way, Burnaby, BC.

At SGS Minerals, the testing procedure begins with weighing 50 grams of the sample into a plastic vial fitted with a screw cap. Next is added 50 ml of the MMI-M solution to the sample, which is then placed in trays and put into a shaker for 20 minutes. (The MMI-M solution is a neutral mixture of reagents that are used to detach loosely bound ions of any of the 53 elements from the soil substrate and formulated to keep the ions in solution.) These are allowed to sit overnight and subsequently centrifuged for 10 minutes. The solution is then diluted 20 times for a total dilution factor of 200 times and then transferred into plastic test tubes, which are then analyzed on ICP-MS instruments. Results from the instruments for the 53 elements are processed automatically, loaded into the LIMS (laboratory information management system which is computer software used by laboratories) where the quality control parameters are checked before final reporting.

The SGS quality control parameters for MMI analysis are similar to that of the SGS analysis of the rock samples mentioned above. SGS uses materials that include method blanks, replicates and reference materials which are randomly inserted within the batch of samples. For this set of 27 MMI samples, three were replicated and the results for all three repeated within accepted boundaries. In addition, two standards were inserted, one labelled MMISRM24 and the other, AMISO169, and both returned values within two standard deviations of the standard value. Two blanks were also inserted at two different spots, respectively, and these met the test by returning values below detection limit. In addition, instrument calibration is performed for each batch or work order and calibration checks are analyzed within each analytical run.

To the best of the authors' knowledge, there is no relationship between SGS Canada Ltd. and either of Decoors Mining Corp. or Geologica Resource Corp. and all sample preparation, security, and analytical procedures were adequate by industry standards.

SGS Canada's laboratory at Production Way in Burnaby is accredited with the Standards Council of Canada as 'Accredited Laboratory No. 744', which conforms with requirements of CAN-P-1579 which are the guidelines for the Accreditation of Mineral Analysis Testing Laboratories, and CAN-P-4E (ISO/IEC 17025:2005) which are the general requirements for the competence of testing and calibration laboratories.

It is the author's opinion that the MMI sampling procedure and testing procedure used are consistent with best practices for MMI analysis.

11.4 SGH SURVEY

Decoors Mining Corp carried out SGH soil sampling on the Topley property in July 2019 with 3 crew members within the area of the northern part of the Tachi prospect. located at UTM northings 6070700 and 6070900, respectively, as shown on the Exploration Map, Figure 8. The lines are each 3,350 meters in length and have a sample spacing of 50 meters along the eastern parts of the lines and 100 meters along the western parts.

The 2020 work was carried out with a three-man crew in October 2020 consisting of 515 soil samples that covered almost the entire property. These were picked up at 200-meter centers. However, only 305 samples were sent to the lab which covered an area of 3,600 meters by 3,400 meters within the eastern two-thirds of the property. It is the authors opinion that the sample size was more than adequate for use of a soil sampling survey such as SGH as an exploration tool.

For each sample site, a hole was dug to about 10 cm deep and then a scoop was flushed with new dirt at the sample site and cleaned, ensuring that there was no cross-contamination from the remnants of the previous sample site. A fist-sized sample of the A-horizon was then taken with the scoop and placed into a pre-labelled Ziploc bag which was then placed into a backpack. At the end of the day, the samples were transferred to labelled rice bags. Samples were then sent to Actlabs at Ancaster, Ontario shortly after the field work was completed.

As SGH lab procedures are proprietary to Actlabs information regarding sample preparation, assaying and analytical procedures used by ActLabs could not be verified by the Author. Actlabs does not have an analytical laboratory certification of any kind to carry out their proprietary SGH laboratory analysis.

To the best of the authors' knowledge, there is no relationship between ActLabs and either of Decoors Mining Corp., Glen Prior or Geologica Resource Corp.

The Author was unable to determine if quality control/quality assurance procedures, sample preparation, security, and analytical procedures were adequate by industry standards.

12 DATA VERIFICATON

David Mark with an assistant visited the property from September 24th to 25th, 2020 accessing it by the Topley Granisle Highway which transects the property. The access off the highway was limited due to adverse weather conditions, including snow. The author examined the property along the highway to verify that no outcrop could be seen indicating that as reported the area is covered by significant overburden. The terrain was also noted to be somewhat subdued indicating that exploration should be able to be carried out with little difficulty, though some of the forest cover was thick with second growth. It should be noted that a power line transecting the property should be taken into account when conducting any electrical geophysical survey. No residential or commercial activities which would limit exploration or development were observed on the property along the Topley Granisle Highway.

The author has reviewed and analyzed data provided by the Issuer and Property owners as well as publicly available assessment reports by previous workers on or in the vicinity of the Topley Property and has taken reasonable steps to verify the information where possible. Some relevant information on the Property presented in this report is based on data derived from reports written by geologists and/or engineers who may or may not have been "qualified persons" (as defined in NI 43-101). The author has made every attempt to accurately evaluate and convey the content of those reports, and it is believed that the reports were written with the objective of presenting the results of the work performed, without any promotional or misleading intent. The author is satisfied that the analyses were done according to accepted industry practices.

This review included checking the data reported above under "9 Exploration" including the lab certificates for the rock samples and the MMI data. As mentioned above, no errors were discovered in the data as to the inserted blanks and standards, and the samples that were retested returned similar values within the accepted range. For example, one rock sample with a tested value of 1.57 % copper was check-tested which returned a value of 1.59 % copper, which is very acceptable.

There were no limitations on, or failure to conduct, the data verification outlined above, other than limitations caused by the proprietary nature of the SGH pathfinder class hydrocarbons. It is the author's opinion that the rock sample data, geological data and geophysical data other than SGH data are reasonable and of sufficient quality for the purposes used in this technical report. The author is unable to verify the quality of the ActLabs SGH techniques and data due to their proprietary nature and the data should not be relied.

13 MINERAL PROCESSING AND METALLURGICAL TESTING

The author of this Technical Report is not aware of any mineral processing and/or metallurgical testing analyses that have been carried out on the subject property or of any metallurgical problems that would adversely affect development.

14 MINERAL RESOURCE ESTIMATES

There are no current NI 43-101 mineral resource estimates for the Topley Property.

15 MINERAL RESERVE ESTIMATES

No mineral reserve estimates were calculated on the Topley Property.

16 MINING METHODS

There has been no work on mining methods at the Topley Property.

17 RECOVERY METHODS

There has been no work on recovery methods at the Topley Property.

18 PROJECT INFRASTRUCTURE

There has been no work on project infrastructure at the Topley Property.

19 MARKET STUDY AND CONTRACTS

There has been no work on market studies and there are no outstanding contracts at the Topley Property.

20 ENVIRONMENT STUDIES, PERMITTING AND SOCIAL COMMUNITY IMPACT

There have been no environmental studies, permitting any work involving social or community impact at the Topley Property.

21 CAPITAL AND OPERATING COSTS

There has been no work on capital and operating costs at the Topley Property.

22 ECONOMIC ANALYSIS

There has been no economic analysis at the Topley Property.

23 ADJACENT PROPERTIES

23.1 MORRISON DEPOSIT

The Morrison deposit is located 21 kilometres north of the Bell Copper mine (093M 001) and 50 km north-northwest of the Topley Property just to the east of Morrison Lake. It is owned by Pacific Booker Minerals Inc.

Siltstone, silty argillite and minor conglomerate of the Middle to Upper Jurassic Ashman Formation (Bowser Lake Group) are host to small Eocene Babine Intrusions, including biotite-hornblende-plagioclase porphyry plugs, sills and dikes. The Morrison is a strongly zoned, annular porphyry copper deposit that is largely within the multiphase porphyry plug. The main porphyry pluton is a faulted plug with nearly vertical contacts, which occupies a northwest-oriented elliptical area of 900 by 150 to 300 metres.

The Morrison deposit occupies the central part of a major graben that is a component of the regional northwest-trending block-fault system of this area. The western bounding fault is believed to be along Morrison Lake, and the eastern fault is approximately 800 metres east of the property. The most prominent structure at Morrison is the north-northwest trending, vertical Morrison fault, which is a linear zone of parallel shears and fractures, and which bisects the porphyry plug and copper zone. The fault is marked by intense clay-carbonate alteration and well-defined zones of carbonate-cemented gouge and breccia.

The Morrison copper zone is a vertical annular cylinder that conforms to the shape of the porphyry plug and is disrupted by the Morrison fault, which bisects the zone along its low-grade core. The copper zone is defined by external and internal boundaries marking the limits of rock that consistently grades greater than 0.3 per cent copper. In most places, the external boundary is relatively sharp and copper grades decline outward to less than 0.1 per cent within approximately 40 metres. Within the high-grade annulus, molybdenum averages approximately 0.01 per cent whereas gold and silver average 0.3 gram per tonne and 3 grams per tonne, respectively. Spotty occurrences of galena and sphalerite, in carbonate-cemented brecciated veins within and near the fault and in smaller parallel shears, contribute to relatively high yet uncommercial values of lead and zinc.

Chalcopyrite and pyrite are the main sulphides occurring along thin seams and veinlets as well as being disseminated within the porphyry plug matrix. Locally, minor to moderate amounts of bornite contribute significantly to copper grades; however, most of the high-grade sections owe their copper content solely to chalcopyrite. All rocks contain anomalous quantities of pyrite (greater than 1 per cent) but the most pronounced concentrations (5 to 15 per cent by volume) occur in three segments that surround the copper zone.

The hydrothermal alteration is characterized by biotite-chlorite zoning. Biotitization is directly related to copper grades; chloritization is strongest in peripheral, pyritized rocks. Intense clay-carbonate alteration is associated predominantly with the Morrison fault and related shears and is superimposed on the earlier biotitic and chloritic alteration. Minor epidote is found in all parts of the property but is most common in the outer chlorite-carbonate zone. Potassium feldspar is evident in very minor amounts in the inner, greater than 0.3 per cent copper portion of the copper zone; gypsum also occurs locally. Disseminated fine-grained apatite is anomalously abundant in the porphyry plug and in some large dikes.

The total mineable reserve, classified as proven and probable, at Net Smelter Return (NSR) cut-off-value of $CDN5.60/t, is 224.25Mt with an average grade of 0.330% Copper, 0.163g/t Gold and 0.004% Molybdenum

The Morrison deposit and its concentric sulphide-silicate alteration zones were formed during a single hydrothermal episode that followed the emplacement and crystallization of most of the phases of the biotite-hornblende-plagioclase porphyry plug.

This property has been owned by Pacific Booker Minerals Inc. since 1992. Their website states that the total mineable reserve, classified as proven and probable, at a Net Smelter Return (NSR) cut-off-value of $CDN5.60/t, is 224.25Mt with an average grade of 0.330% Copper, 0.163g/t Gold and 0.004% Molybdenum

These resource estimates are not necessarily indicative of the mineralization on the Topley Property that is the subject of this technical report. Also, the author cannot verify the Morrison resource estimates.

24 OTHER RELAVENT DATA AND INFORMATION

The author is not aware of any other relevant information that could change the conclusions or recommendations of this report.

25 INTERPRETATION AND CONCLUSIONS

Porphyry copper-molybdenum sulphide mineralization with gold values occurs on the Topley Property as has been noted and mapped by previous geologists. This is the main mineral deposit type of exploration interest, especially considering that analogous deposits occur nearby. These deposits are the two past producers, being the Bell Copper Mine and the Granisle Mine, as well as the unmined Lorraine deposit.

Many of the characteristics of the Topley Property are similar to those of the three porphyry deposits. Porphyry style of mineralization occurs on the property mainly within granitic type of intrusives which on this property is quartz monzonite of the Spike Peak Intrusive Suite. In addition, the type of alteration that is associated with porphyry deposits has been noted throughout the outcrops, mainly within the Tachek Creek area. Faulting of different types, which is always important to the emplacement of mineralizing fluids, has also been mapped.

The other type of deposit that is known in the area and is thus a target on the Topley Property is volcanic hosted massive sulphides (VHMS). The property has the right rock-types as in volcanics and sediments as well as a nearby intrusive body which may be important as a heat engine (Huston, et al, 2011). In addition, massive sulphides, though limited, are known on the property along with associated alteration.

Most of the property is to the west of the main showings of the Tachi Prospect and is widely covered by overburden, some of it deep. Considering this, as well as the proximity to the Tachi mineralization, this area is considered to be the priority for the next phase of exploration.

24 RECOMMENDATIONS

It is recommended that Geologica carry out additional exploration on the Topley Property. The past work has been successful in delineating target areas and therefore should be continued. An initial $120,000 exploration program is recommended. See Table 3.

The priority area at the Topley Property for further exploration is the area of the Tachi Prospect as well as the area to its west.

1) Collect all past work carried out on the Topley Property and digitize all the results onto a base map. Extensive work has been carried out before the property was staked in 2018 and is therefore valuable to the ongoing exploration of the property. This includes re-reducing the Riverside airborne magnetic survey over the Topley property area and re-interpreting it.

2) Extend the mobile metal ion (MMI) soil sampling to the west of the Tachi Prospect, starting with a line spacing of 200 meters, a line direction of east-west, and a sample spacing of 50 meters.

3) Reduce the line spacing to 100 meters and the sample interval to 25 meters over anomalous areas.

4) Carry out IP/resistivity surveying across MMI target areas as defined by the MMI results within the southeastern part of the grid area. . The recommended electrode spacing is 50 meters which will enable the IP/resistivity survey to explore to a greater depth.

TABLE 3 – EXPLORATION BUDGET	
ITEM	**ESTIMATED COST**
Compiling of all historical data and reducing airborne mag data	$11,000
MMI soil sampling, 2-man crew, 14 days @$2,500/day	$35,000
MMI laboratory costs, 400 @ $50 each	$20,000
IP/resistivity survey, 10 days @$4,000/day	$40,000
Data reduction	$3,500
Interpretation and reporting	$3,500
TOTAL	**$113,000**

Note : The MMI soil sampling and the IP/resistivity survey include room, board, truck rental, and instrumentation.

The size and scope of the Phase Two program as well as the type of work is dependent on the results of Phase One. At this point the recommended work would be a helicopter SkyTEM survey which is capable of locating conductive bodies at depth and would be particularly useful in exploring for VMS-type deposits. Also recommended is diamond drilling of any exploration targets produced by the geological, geophysical, and geochemistry work. The estimated cost is about $400,000.

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26 CERTIFICATE OF AUTHOR - DAVID MARK, P.GEO

I, David Mark, P.Geo, as the author of the report entitled "Technical Report – Topley Property, Topley Landing, Babine Lake Area, Omineca MD, British Columbia" with an effective date of May 7, 2021, do hereby certify that:

1. I am a self-employed consulting geoscientist residing at 6204 125th, Street, Surrey, B.C., V3X 2E1.
2. I graduated with a Bachelor of Science degree in Geological Sciences from the University of British Columbia, Vancouver, British Columbia in 1968.
3. I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (license #20608), in good standing since 1993.
4. I have worked continuously as a geoscientist for fifty-three years since my graduation from university and have been involved in exploration projects for gold (both placer and hard rock), base metals, diamonds, gravel, and silica sand in Canada, USA, Mexico, Cuba, Honduras, Mali, and Papua New Guinea. The type of work consists of field work including soil sampling, data interpretation, and project management.
5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-10 1) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
6. I am responsible for all sections of the technical report titled Technical Report on the Topley Property", British Columbia and dated May 7, 2021, of which I am the author. This report is based upon a personal examination of all available company and government reports pertinent to the subject property. Where applicable, sources of information are noted in the body of the text or illustrations. I was on the property on September 24th and 25th, 2020.
7. As of the date of this report, I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose of which makes the Technical Report misleading. This report contains all scientific and technical information that is required to be disclosed.
8. I am independent of the issuer (Geologica Resource Corp.), and of the optionors of the subject property, applying the tests set out in section 1.5 of National Instrument 43-101. I have no interest in the property, which is the subject of this report, nor do I expect to receive any interest in this property or any other owned by the issuer or the optionors. I have had no prior involvement with the property that is the subject of this report.
9. I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this 14th day of February 2022 at Surrey, British Columbia

Signed and sealed

David G. Mark, P. Geo