

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]:

TOTAL COST: \$2,200.00

AUTHOR(S): Walcott, A.

SIGNATURE(S): digital

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Feb 20-26

YEAR OF WORK: 2020

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 554803,996703,996742

PROPERTY NAME: Gnawed Mountain

CLAIM NAME(S) (on which the work was done): 554803,996703,996742

COMMODITIES SOUGHT: Copper, Molybdenum

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISE152,092ISE077,092ISE014,092ISE085

MINING DIVISION: Kamloops

NTS/BCGS: 92I/07

LATITUDE: 50 ° 24 ' 0 " LONGITUDE: 120 ° 58 ' " (at centre of work)

OWNER(S):

1) Masco Capital Inc.

2) \_\_\_\_\_

MAILING ADDRESS:

1000 Austin Ave,

Coquitlam, V3K3P1

OPERATOR(S) [who paid for the work]:

1) As Above

2) \_\_\_\_\_

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Guichon, Copper, Molybdenum, Intrusive

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: \_\_\_\_\_

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>	_____	_____	_____
<b>Photo interpretation</b>	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>	_____	_____	_____
<b>Electromagnetic</b>	_____	_____	_____
<b>Induced Polarization</b>	_____	_____	_____
<b>Radiometric</b>	_____	_____	_____
<b>Seismic</b>	_____	554803,996703,996742	2200.00
<b>Other Inversion</b>	_____	_____	_____
<b>Airborne</b>	_____	_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b>	_____	_____	_____
<b>Silt</b>	_____	_____	_____
<b>Rock</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>	_____	_____	_____
<b>Non-core</b>	_____	_____	_____
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b>	_____	_____	_____
<b>Petrographic</b>	_____	_____	_____
<b>Mineralographic</b>	_____	_____	_____
<b>Metallurgic</b>	_____	_____	_____
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
<b>Line/grid (kilometres)</b>	_____	_____	_____
<b>Topographic/Photogrammetric (scale, area)</b>	_____	_____	_____
<b>Legal surveys (scale, area)</b>	_____	_____	_____
<b>Road, local access (kilometres)/trail</b>	_____	_____	_____
<b>Trench (metres)</b>	_____	_____	_____
<b>Underground dev. (metres)</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
		<b>TOTAL COST:</b>	2200.00

## Mineral Titles Online Viewer

### Exploration and Development Work / Expiry Date Change Event Detail

<b>Event Number ID</b>	<b>5774970</b>
Recorded Date	2020/feb/21
Work Type	Technical Work (T)
Technical Items	Geophysical (P), PAC Withdrawal (up to 30% of technical work required) (W3)
Work Start Date	2020/feb/20
Work Stop Date	2020/feb/21
Total Value of Work	\$ 2200.00
Mine Permit Number	

#### Summary of the work value:

<b>Title Numbers</b>	<b>996703</b>
Claim Name/Property	
Issue Date	2012/jun/12
Work Performed Index	Y
Old Good To Date	2020/feb/23
New Good To Date	2020/apr/28
Numbers of Days Forward	65
Area in Ha	514.87
Applied Work Value	\$ 1371.57
Submission Fee	\$ 0.00
<b>Title Numbers</b>	<b>996742</b>
Claim Name/Property	
Issue Date	2012/jun/12
Work Performed Index	Y
Old Good To Date	2020/feb/23
New Good To Date	2020/apr/28
Numbers of Days Forward	65
Area in Ha	658.91
Applied Work Value	\$ 1755.30
Submission Fee	\$ 0.00

#### Financial Summary:

Total Applied Work Value: \$ 3126.87

PAC name	Robak Industries
Debited PAC amount	\$ 926.87
Credited PAC amount	\$

Total Submission Fees	\$ 0.00
Total Paid	\$ 0.00

**Related Summary:**

Existing Work Program  
Event Numbers

Click [here](#) to go back to the previous page  
Click [here](#) to go back to the titles search page.

**EVENT #5774970**

**AN**

**ASSESSMENT REPORT**

**ON**

**PASSIVE SEISMIC**

**Gnawed Mountain Property  
Logan Lake Area,  
Kamloops M.D. , B.C.  
50° 24'N, 120° 58'W**

**CLAIMS SURVEYED**

**554803,996703,996742**

**For**

**MASCO CAPITAL INC.**

**COQUITLAM, B.C.**

**BY**

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**COQUITLAM, B.C.**

**MAY 2020**

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### APPENDIX I

Cost of Survey  
 Personnel Employed on Survey  
 Certification

<b><u>ACCOMPANYING MAPS</u></b>	-	<b><u>MAP POCKET</u></b>
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Claim and Grid Location Map	1:20,000
Passive Seismic Soil Thickness	1:10,000

## **INTRODUCTION.**

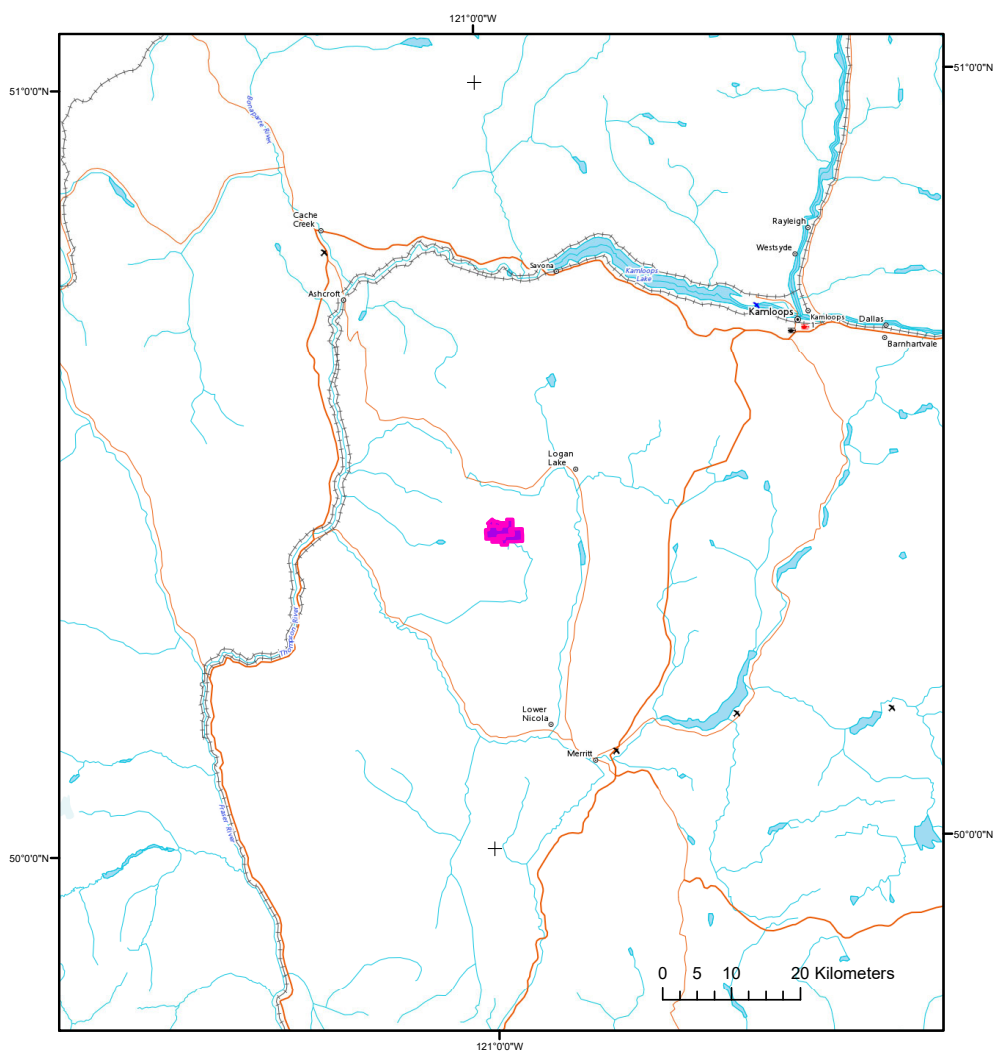
Between February 20<sup>th</sup> and 26<sup>th</sup>, 2020, Peter E. Walcott & Associates Limited undertook a passive seismic survey on the Gnawed Mountain Property for Masco Capital.

The project consisted of some 70 passive seismic points collected over the property in an attempt to measure the thickness of cover in areas.

## **PROPERTY, LOCATION AND ACCESS.**

The Gnawed Mountain property is in southwestern British Columbia, some 14 kilometres southwest of Logan Lake, Columbia and some 35 kilometres northwest of the community of Merritt, British Columbia where the crew was housed.

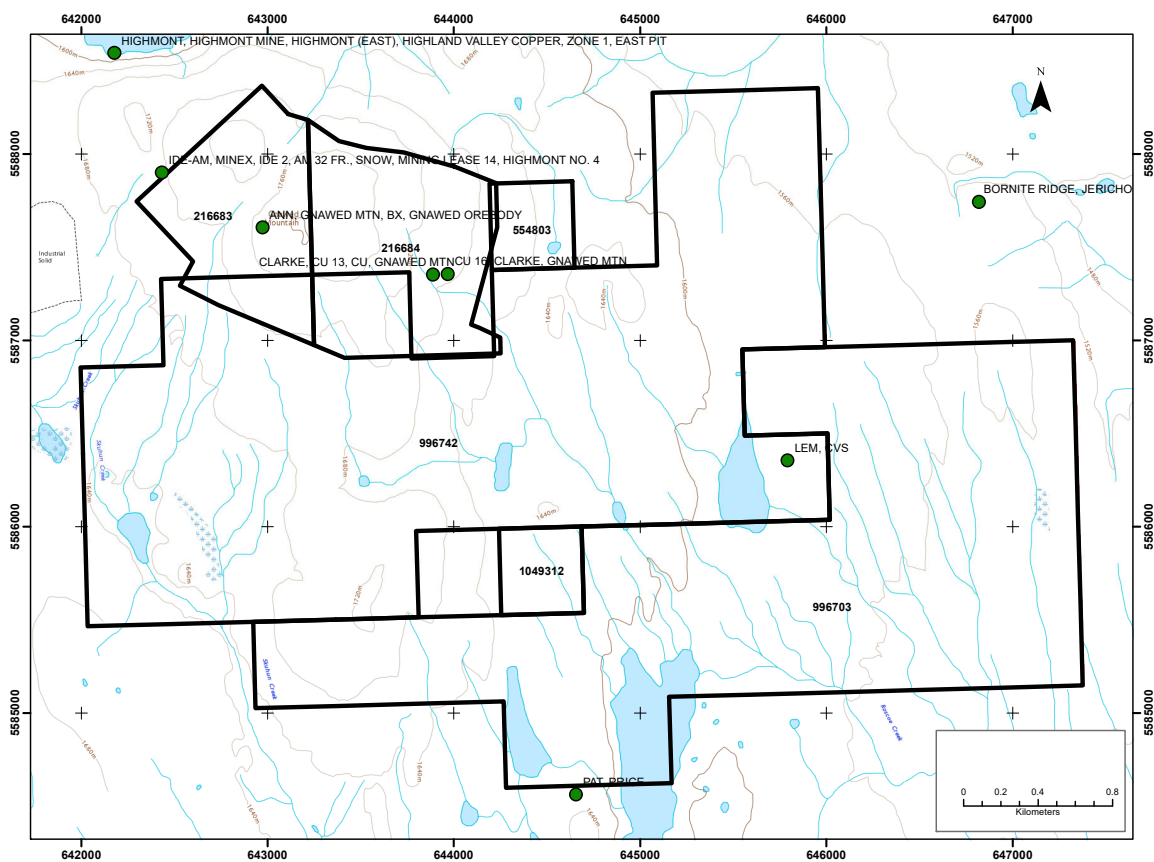
Access to the survey area was gained via a network of secondary paved and gravel roads emanating from the communities of Logan Lake, and Merritt, British Columbia.



Claim Location Map



**PROPERTY, LOCATION AND ACCESS cont'd.**



Claim Location Map

**PURPOSE.**

The purpose of the project was to use passive seismic to observe thickness of cover and any other impedance contrasts at depth which may be of interest at depth.

## **HISTORICAL WORK.**

Several exploration campaigns have been conducted within the property and surrounding area – consisting of geological mapping, geochemistry, ground and airborne geophysics, and diamond drilling.

For further information the reader is referred to the respective Aris files within the immediate area.

## **PROPERTY GEOLOGY AND MINERAL OCCURENCES.**

The Gnawed property is situated near the center of the Guichon Creek Batholith within the prolific Highland Valley camp. The property is underlain by four main geological units.

The western portion of the property is underlain by the Bethsaida Phase, consisting of quartz monzonite to granodiorite units.

The central portion of the property is dominantly underlain by the Skeena Variety. This Triassic aged unit intrusive unit is intermediate in composition and texture between the Bethlehem and Bethsaida phases. This unit was subsequently intruded by a number of porphyritic dykes and plugs. The largest of these intrusive bodies is mapped in a northwesterly orientation through the summit of Gnawed Mountain. A series of breccia zones also appear to be associated with the aforementioned intrusive.

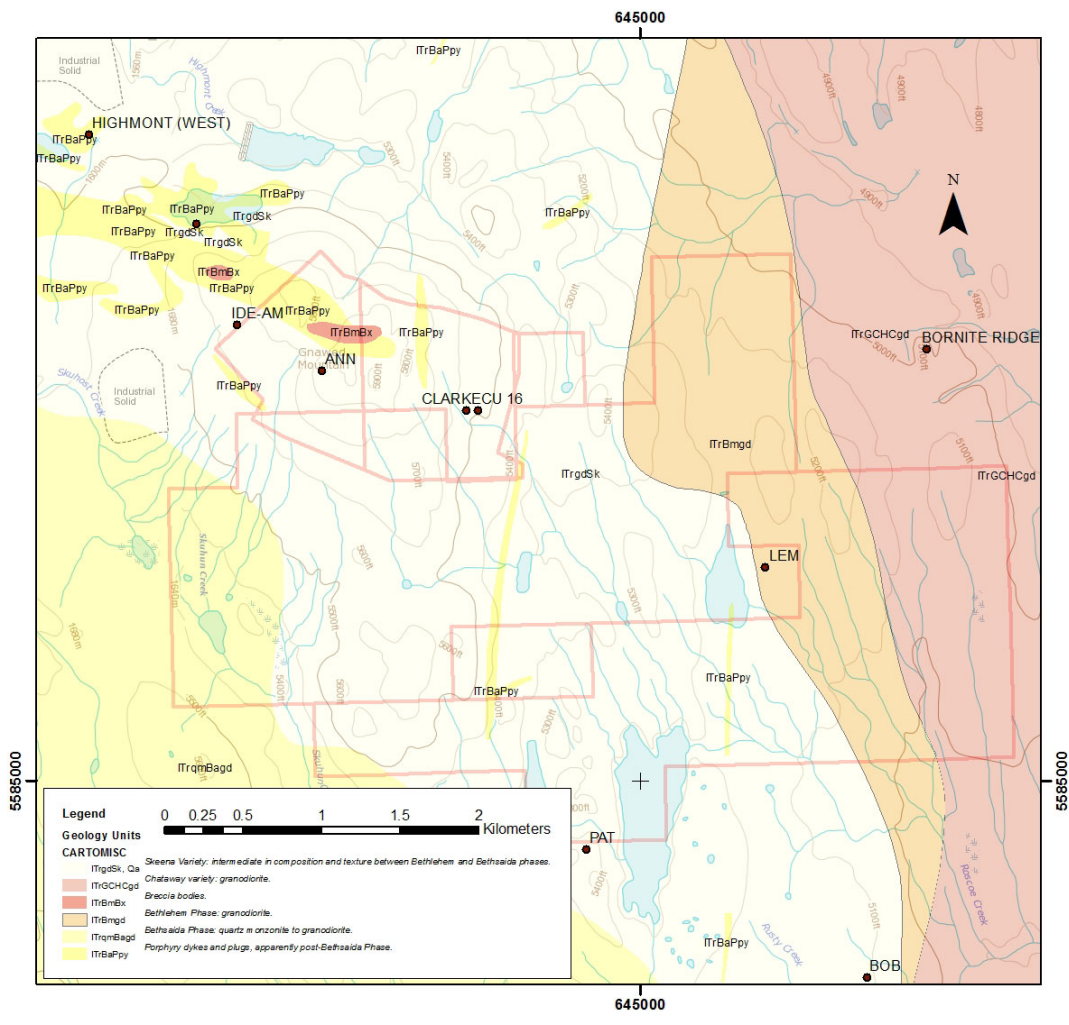
The eastern third of the property underlain by a north-south trending wedge of Bethlehem Phase granodiorite and Chataway Variety granodiorite.

A number of minfile occurrences are contained within the property limits – Ann, Clarke, Cu 16 and Lem. These occurrences are all associated with copper and molybdenum mineralization.

The Ann or Gnawed Mountain occurrence is the most significant of the aforementioned. The Anne zone consists of a strong quartz stockwork hosted by Bethsaida breccia. An orebody 200 to 300 metres wide, 360 to 660 metres long with a proposed pit depth of 120 metres contains unclassified reserves of 43,381,157 tonnes grading 0.27 per cent copper (Northern Miner - June 20, 1974).

For further information the reader is referred to the respective Aris files within the immediate area.

**PROPERTY GEOLOGY AND MINERAL OCCURENCES.**



Property Geology  
(After McMillan, W J; Anderson, R G; Chan, R; Chow, W)

## **SURVEY SPECIFICATIONS**

The survey was carried out using two Tromino units manufactured by MOHO Science and Technology of Margvera, Italy.

The units utilize 3 velocimetric and 3 accelerometric channels to measure and record passive seismic signals.

The ground was first cleared of snow and loose material. The unit was then carefully placed into the cleared areas allowed the 3 pins on the lower side of the unit to make a tight connection with the ground surface. The unit then acquired for between 15-20 minutes, measuring frequencies up to 512 Hz.

The acquired data was then downloaded daily from the units using Moho's Grilla software, where the processing and modelling was also carried out.

From the datasets, H/V curves can be modelled to recover the shear wave velocity profiles. By utilizing these velocities and knowing/approximating the velocity of the underlying unit, depth to bedrock can be obtained.

The resulting modelled depths were then paired with their respective GPS coordinate and plotting using Oasis Montaj.

## **DISCUSSION OF RESULTS.**

The passive seismic survey consisted of some 71 data points, of which 33 data points had signals which was too low to provide meaningful data. This likely was due to poor ground coupling on the frozen ground during the winter project.

The results of the remaining points showed cover in the area ranged between 2.7 and 16 meters thick. The deepest values were obtained off the southern side of Gnawed Mountain, in a slight topographical depression.

Given the shallow cover, soil geochemistry in the area, would unlikely be adversely affected.

A deeper signal was also detected within recovered modeling, which potentially illustrates a northwesterly trough aligning with anomalous copper values, more data points would be required prior to presenting this.

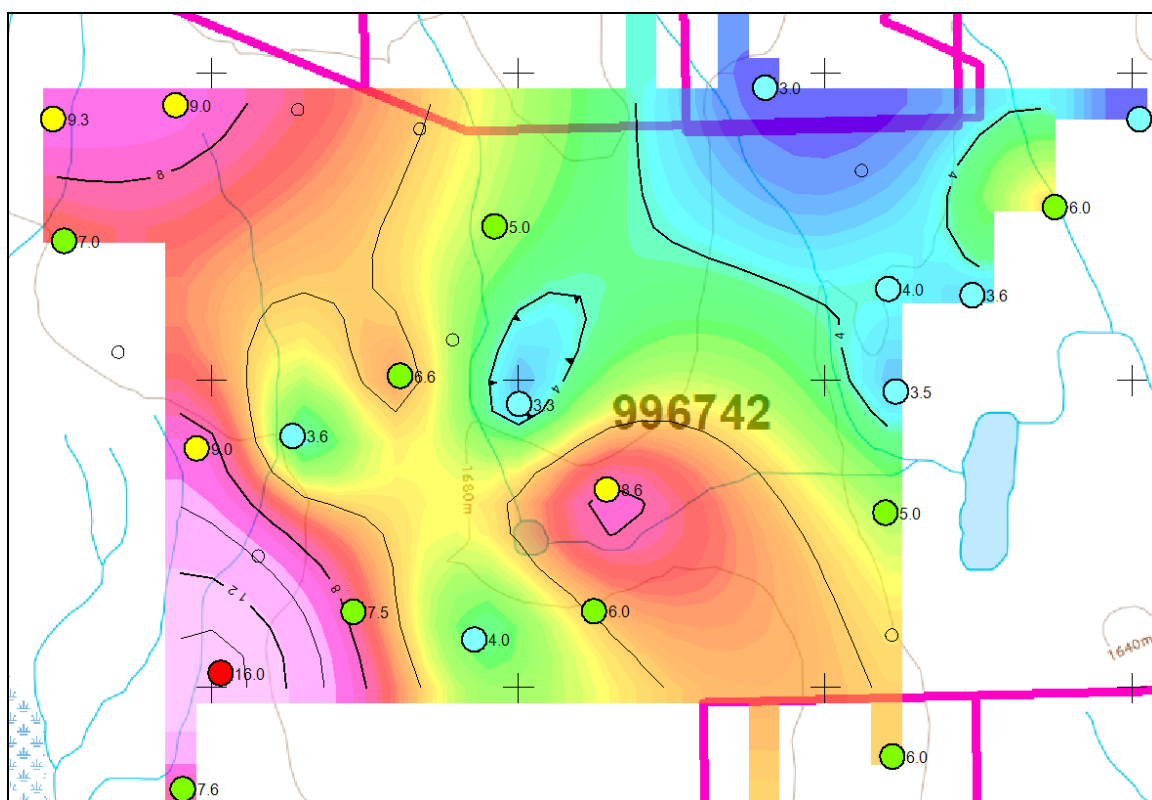


Illustration of Depth of Cover (m) – South of Gnawed Mtn.

**SUMMARY, CONCLUSIONS & RECOMMENDATIONS.**

Between February 20<sup>th</sup> and 26<sup>th</sup>, Peter E. Walcott & Associates Limited undertook passive seismic over parts of the Gnawed Mountain property for Masco Capital.

The results of the survey suggest relatively shallow cover in the areas covered by the survey, thus unlikely to effect the usefulness of geochemistry.

A second deeper feature was also recovered suggesting a deeper trough aligning with elevated geochemistry however given the distribution, of the data points additional points would be needed prior to presenting this.

Apart from a few additional points proximal to the above-mentioned feature to test the concept no additional passive seismic should be undertaken. Focus should be given to drill testing areas identified in historic geochemical, and geophysical surveys.

Respectfully submitted,

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**P. Alexander Walcott**  
**Geophysicist**

**Vancouver, B.C.**  
**May 2020**



**APPENDIX I**

**COST OF SURVEY.**

Peter E. Walcott & Associates Limited undertook the project on a daily rate of \$1650 per day. A mobilization charge of \$2000.00 plus snowmobile rental of \$75 per day per unit. Processing and reporting charges of \$1200.00 were also incurred thus the total cost of the project was \$10,250.00

**PERSONNEL EMPLOYED ON SURVEY.**

<b><u>Name</u></b>	<b><u>Occupation</u></b>	<b><u>Address</u></b>	<b><u>Dates</u></b>
A. Walcott	Geophysicist	Peter E. Walcott & Associates Limited 111-17 Fawcett Rd. Coquitlam, B.C.	
M. Magee	Geophysical Operator	“	Feb 20 <sup>th</sup> -26 <sup>th</sup> , 2020
N. Loubser	“	“	“

**CERTIFICATION.**

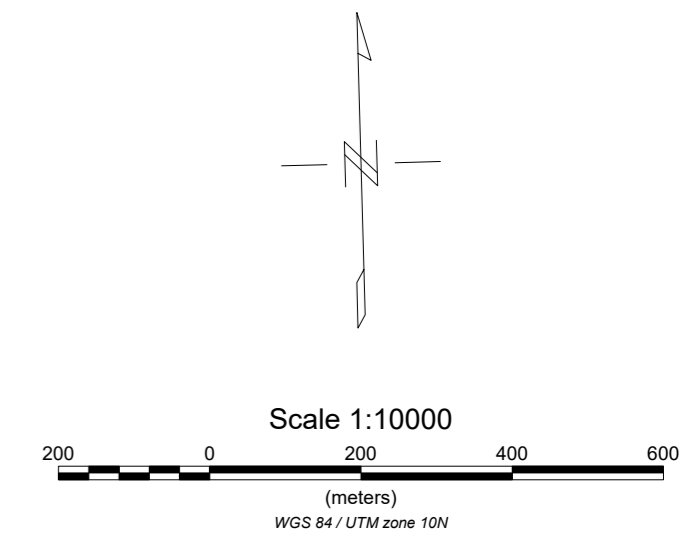
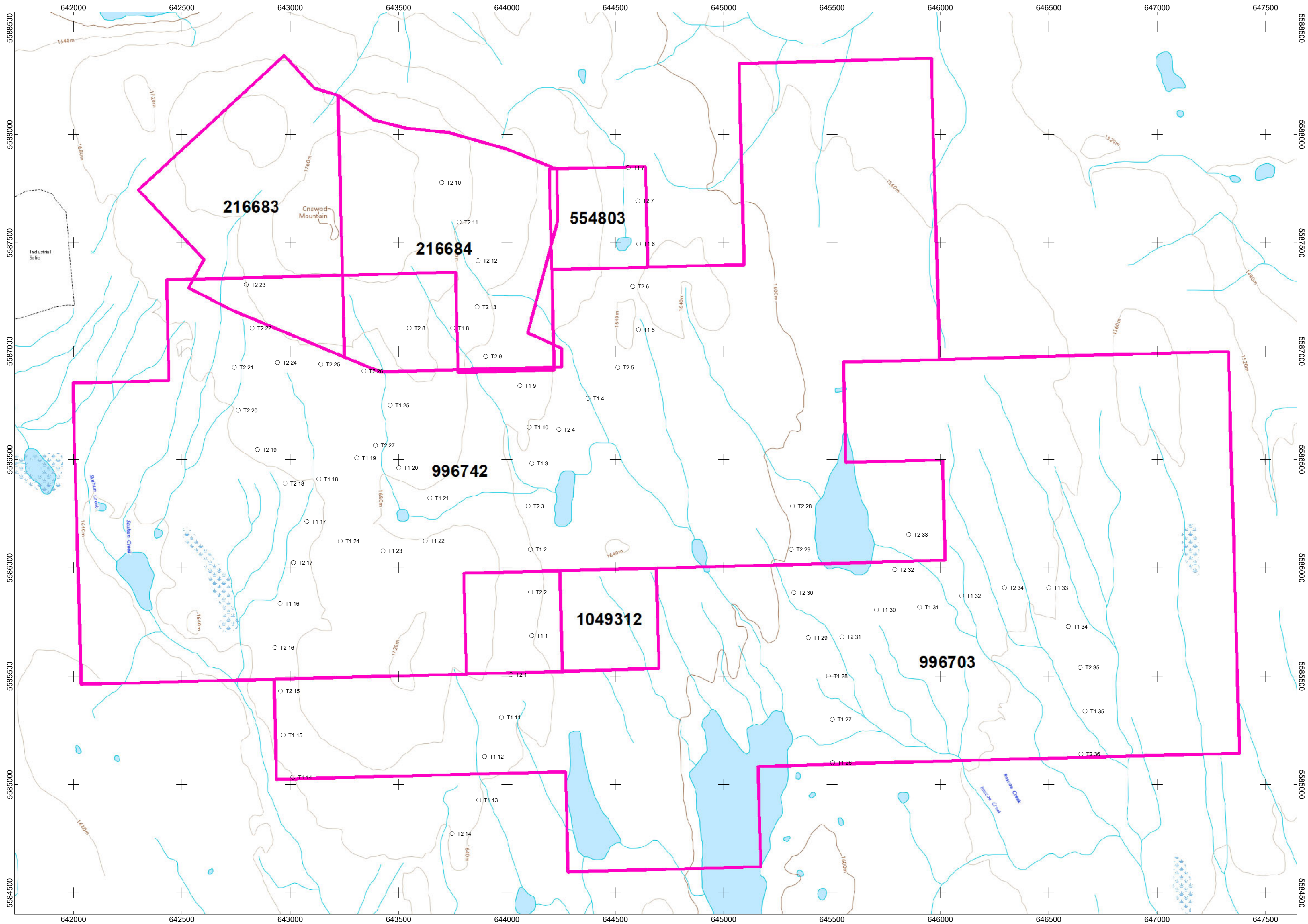
**I, Alexander Walcott, of 38-181 Ravine Dr., Port Moody, British Columbia, hereby certify that:**

1. I am a graduate of the University of Alberta with a B.Sc. Earth Sciences Major, with a Physics Minor.
2. I have been active in mineral exploration for the past 20 years.
3. I am currently employed by Peter E. Walcott & Associated Limited.

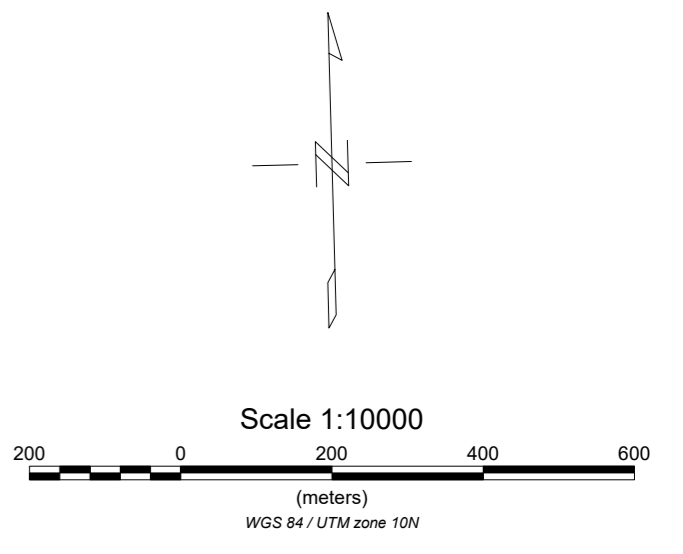
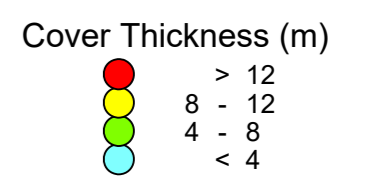
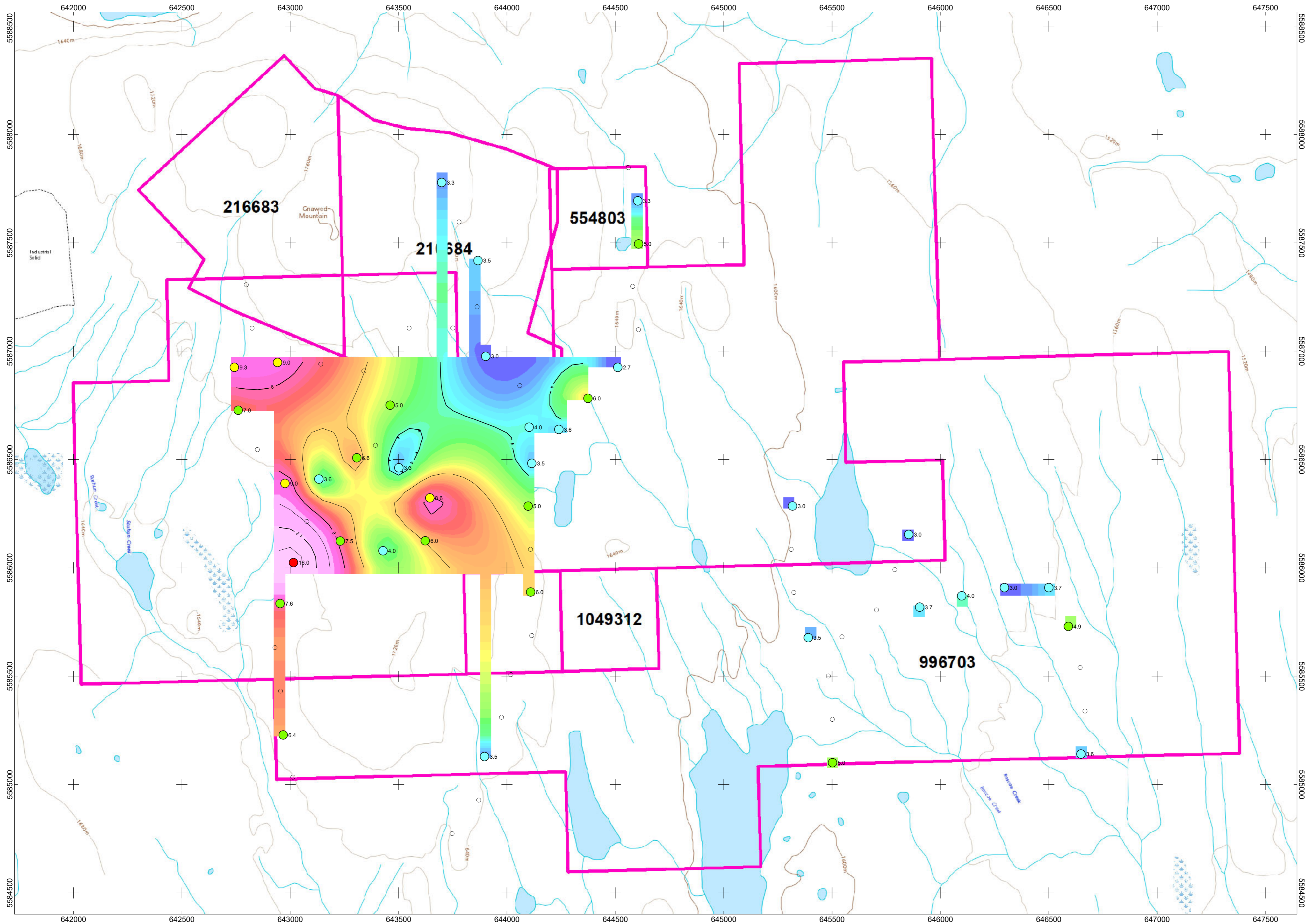
**Alexander Walcott, B.Sc.**

**Coquitlam, B.C.  
May 2020**

**APPENDIX II**



**MASCO CAPITAL INC.**  
**CLAIM AND POINT LOCATION MAP**  
 GNAWED MOUNTAIN PROPERTY  
 LOGAN LAKE AREA, BRITISH COLUMBIA  
**PETER E. WALCOTT & ASSOCIATES LIMITED**



**MASCO CAPITAL INC.**  
**PASSIVE SEISMIC SURVEY**  
**CONTOURS OF MODELLED COVER THICKNESS (M)**  
 GNAAWED MOUNTAIN PROPERTY  
 LOGAN LAKE AREA, BRITISH COLUMBIA  
**PETER E. WALCOTT & ASSOCIATES LIMITED**