

**BC Geological Survey
Assessment Report
40318**



Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

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

TOTAL COST: 59,725.00

AUTHOR(S): Walcott, A. SIGNATURE(S): digital

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): February 2021-February 2022 YEAR OF WORK: 2021/22

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5929700

PROPERTY NAME: Aspen Grove

CLAIM NAME(S) (on which the work was done): 1068042-44,1068048-51,1069696,1071302-303,1071305-306,1081501

COMMODITIES SOUGHT: Copper, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: See page 2

MINING DIVISION: Nicola Mining Division NTS/BCGS: 092H/092I

LATITUDE: 50 ° 00 ' 6 " LONGITUDE: 120 ° 34 ' 6 " (at centre of work)

OWNER(S):
1) Cazador Resources 2) Richard Billingsley

MAILING ADDRESS:
5389 Buchanan Road, 11114 147A Street,
Peachland, B.C., V0H 1X1 Surrey, B.C., V3R 3W2

OPERATOR(S) [who paid for the work]:
1) _____ 2) _____

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Aspen Grove, Nicola Group, Quesnel Terrane, monzonite, Copper, Gold, porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____
38108,23446. 11468. 24019. 27001. 11376. 21678.

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne Magnetic	_____	All listed	59,725.00
GEOCHEMICAL (number of samples analysed for...)			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
		TOTAL COST:	59,725.00

Mineral Titles Online Viewer

Exploration and Development Work / Expiry Date Change Event Detail

Event Number ID	5929700
Recorded Date	2022/mar/25
Work Type	Technical Work (T)
Technical Items	Geophysical (P), PAC Withdrawal (up to 30% of technical work required) (W3)
Work Start Date	2020/feb/01
Work Stop Date	2022/feb/15
Total Value of Work	\$ 59735.00
Mine Permit Number	N/A

Summary of the work value:

Title Numbers	1068040
Claim Name	ASPEN GROVE 1
Issue Date	2019/apr/21
Work Performed Index	N
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	663.76
Applied Work Value	\$ 3322.37
Submission Fee	\$ 0.00
Title Numbers	1068041
Claim Name	ASPEN GROVE 2
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	2179.86
Applied Work Value	\$ 10911.06
Submission Fee	\$ 0.00
Title Numbers	1068042
Claim Name	ASPEN GROVE 3
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	1120.74

Applied Work Value	\$ 5609.75
Submission Fee	\$ 0.00
Title Numbers	1068043
Claim Name	ASPEN GROVE 4
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	2139.20
Applied Work Value	\$ 10707.51
Submission Fee	\$ 0.00
Title Numbers	1068044
Claim Name	ASPEN GROVE 5
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	1101.23
Applied Work Value	\$ 5512.10
Submission Fee	\$ 0.00
Title Numbers	1068045
Claim Name	ASPEN GROVE 6
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	976.63
Applied Work Value	\$ 4888.43
Submission Fee	\$ 0.00
Title Numbers	1068048
Claim Name	ASPEN GROVE 7
Issue Date	2019/apr/21
Work Performed Index	Y
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	3223.27
Applied Work Value	\$ 16133.70
Submission Fee	\$ 0.00
Title Numbers	1068049
Claim Name	ASPEN GROVE 8
Issue Date	2019/apr/21
Work Performed Index	N
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	1248.85
Applied Work Value	\$ 6250.99
Submission Fee	\$ 0.00
Title Numbers	1068050

Claim Name	ASPEN GROVE 9
Issue Date	2019/apr/21
Work Performed Index	N
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	1207.14
Applied Work Value	\$ 6042.20
Submission Fee	\$ 0.00

Title Numbers

1068051

Claim Name	ASPEN GROVE 10
Issue Date	2019/apr/21
Work Performed Index	N
Old Good To Date	2019/sep/12
New Good To Date	2020/sep/12
Numbers of Days Forward	366
Area in Ha	2703.06
Applied Work Value	\$ 13529.85
Submission Fee	\$ 0.00

Financial Summary:

Total Applied Work Value:	\$ 82907.96
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PAC name	Richard Billingsley (FMC No: 139085)
Debited PAC amount	\$ 23172.96
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.

A REPORT
ON
AIRBORNE MAGNETIC SURVEYING
ASPEN GROVE PROPERTY
ASPEN GROVE AREA, BRITISH COLUMBIA

NICOLA M.D.
49° 57'N, 120° 31.20'W
NTS 92H/15

Claims:

1068042-44,1068048-51,1069696,1071302-303,1071305-306,1081501

Survey Work Dates:
February 25th – March 10th, 2021

FOR

RICHARD BILLINGSLEY/CAZADOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA

BY

ALEXANDER WALCOTT, P.Geo.

PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia

AUGUST 2022

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APPENDIX I

Personnel Employed on Project
Cost of Project

ACCOMPANYING MAPS

Claim and Line Location Map	Scale 1:20,000
Contours of Total Field Intensity	Scale 1:20,000
Contour of Calculated 1 st Vertical Derivative	Scale 1:20,000

INTRODUCTION.

Between February 25th and March 10th, 2021, Peter E. Walcott & Associates Limited undertook an airborne magnetic survey over parts of the Aspen Grove Property for Richard Billingsley and Cazador Resources Ltd.

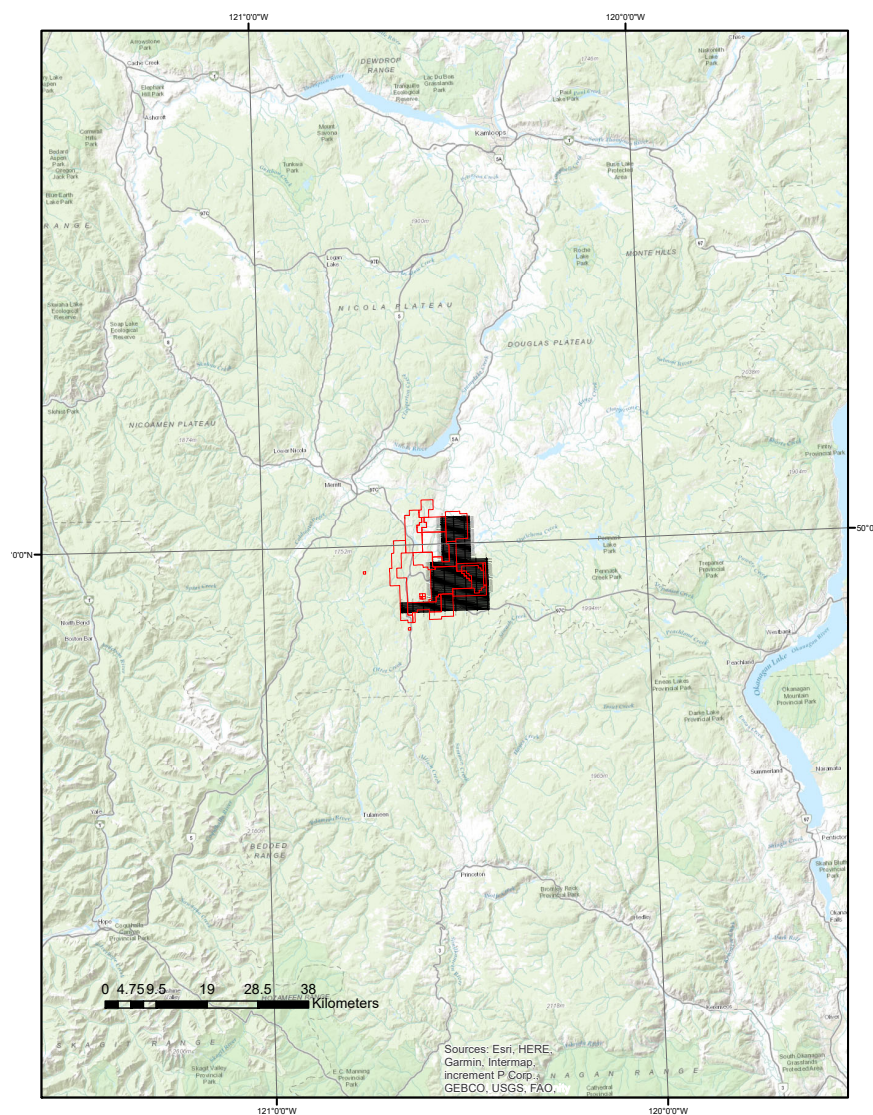
The survey consisted of some 874-line kilometers of airborne magnetic surveying carried out on east-west orientated lines with a nominal spacing of 200 m and orthogonal tie lines with a nominal spacing of some 2000 m.

The survey was expanded to cover neighboring blocks due the nature of the claims outline, and to aid with interpretation.

PROPERTY LOCATION AND ACCESS

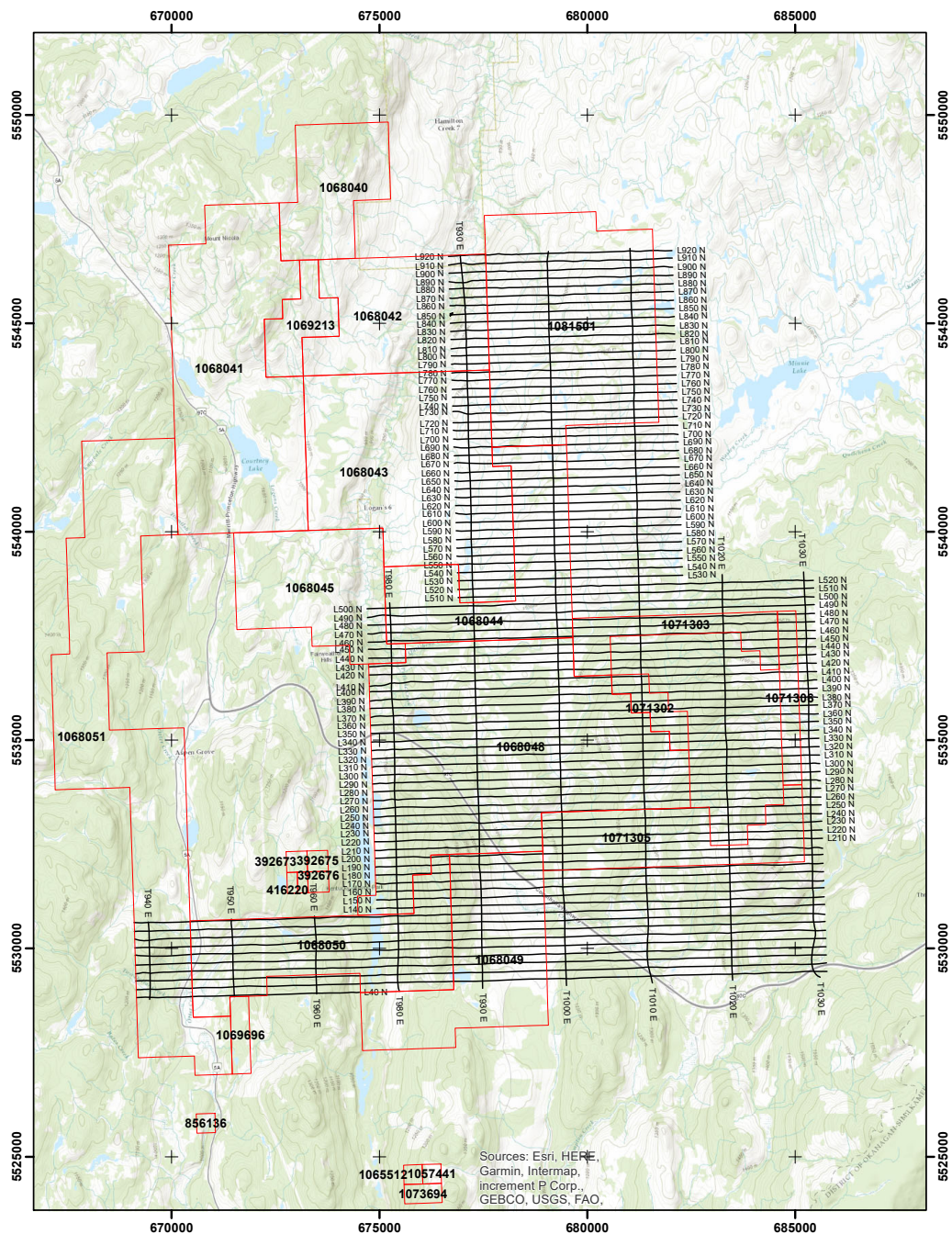
The Aspen Grove project is located within the Nicola mining division some 22 kilometres south east of the Merritt, British Columbia.

Access to the property can be gained via the 97C from Merritt which bisects the property, then by a network of secondary roads



Property Location Map

PROPERTY LOCATION AND ACCESS con't



2021 Flight Lines

PURPOSE

The purpose of the airborne magnetic survey was to attempt to define structure and magnetic features potentially related to porphyry style mineralization.

GEOLOGY.

The Aspen Grove property lies in the southern part of the Upper Triassic to Lower Jurassic Quesnel Trough – Quesnellia Terrane –, a Mesozoic island arc terrane juxtaposed against the ancestral North American continental margin. It hosts numerous porphyry copper-gold deposits, from southern to northern B.C.

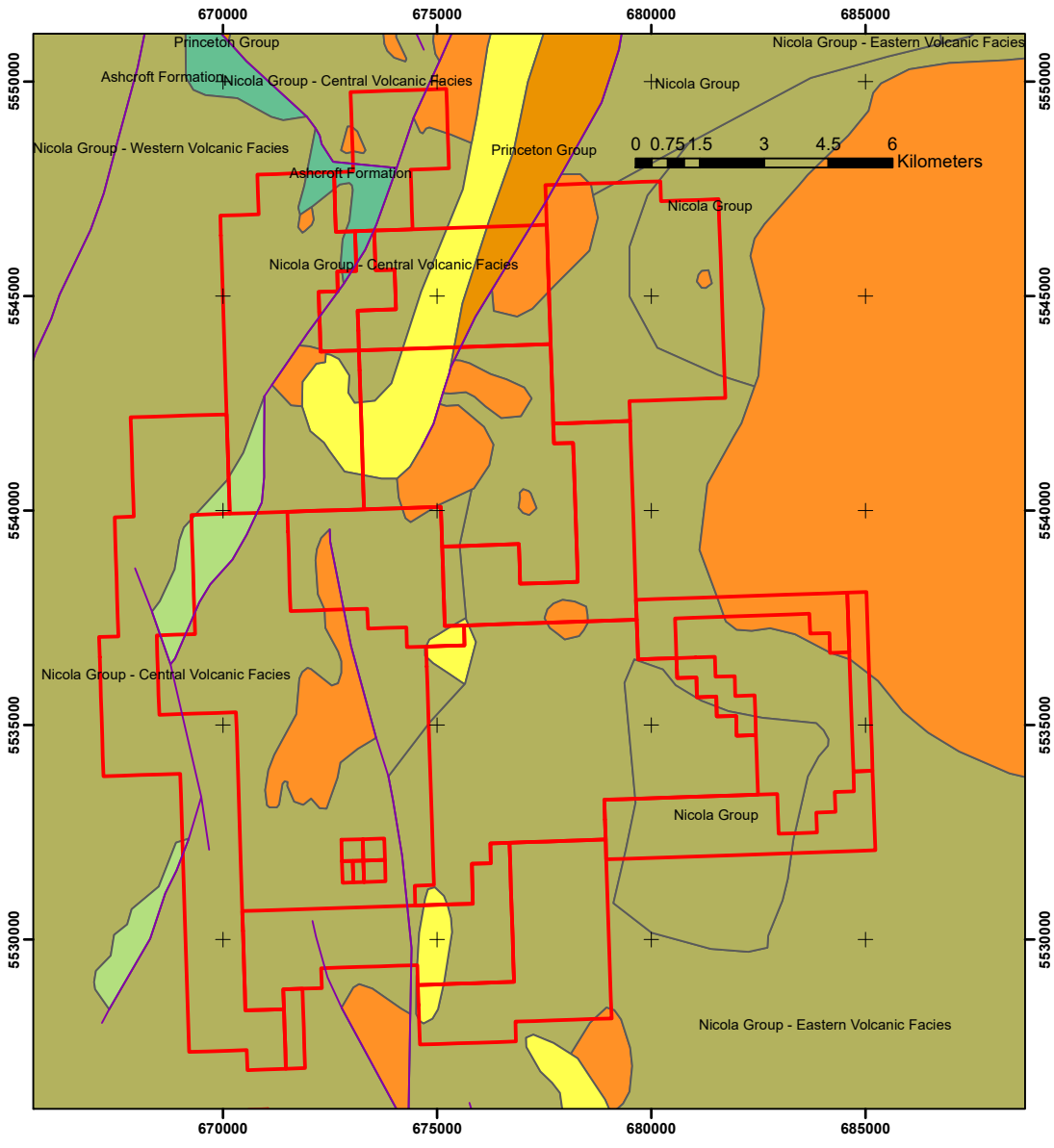
The property is dominantly underlain by Upper Triassic Nicola Group Volcanics, and Quaternary cover intruded by granodioritic units.

Within the property bound there are numerous copper mineral occurrences.

<u>MINFILNO</u>	<u>COMMODITY</u>	<u>NAMES</u>
092HNE105	Copper, Gold, Silver	BLUE JAY, SNOWFLAKE, GROVE, KM, SNOWFLAKE 3
092HNE147	Copper, Molybdenum	COURT 1, SKI 13-16
092HNE146	Copper	CONE, SKI
092ISE054	Copper	PORCUPINE, CR
092ISE165	Copper, Silver,	Molybdenum ME, M.E., TYE, YT, THEL, SUN
092ISE164	Copper, Silver	DOR, COPPER STAR, FOX CLAIMS
092HNE052 1-5	Copper, Silver	TAB, BLUEJAY, SNOWFLAKE, KM, BAT, GROVE, TAB
092HNE036	Copper, Silver	COPPER STAR, DOR, V.V. AND E., DOR 19,29
092HNE145	Copper	SNOWFLAKE 6, BLUE JAY
092HNE061	Copper	JUNE, QUIL, SNOWFLAKE 7
092HNE203	Copper, Molybdenum	SKI, SNOWFLAKE 7, QUIL, GROVE, JUNE, SKI 91,92
092HNE268	Copper	SNOWFLAKE 7, QUIL CM, SNOWFLAKE GOLD ZONE, SNOWFLAKE 10, SNOWFLAKE 7,
092HNE174	Copper, Gold, Silver, Zinc, Lead, Moly	GROVE
092HNE267	Copper	SNOWFLAKE 10, CM 3, QUIL, SKI
092ISE084	Copper, Molybdenum	MINT, TOAD, JOE, QUIL

Minfile Occurrences.

GEOLOGY cont'd.



Regional Geology, After BCGS

PREVIOUS WORK.

The Aspen Grove area has been the subject of numerous exploration campaigns since the early 1900's for both base and precious metals.

Since this time the time numerous exploration programs consisting of geological mapping, geochemical surveys and geophysical surveys have been carried out on and surrounding the existing property holdings.

The numerous work programs are well documented. For further information the reader is referred to the Government of British Columbia Aris website.

SURVEY SPECIFICATIONS

The Airborne Magnetic Survey.

The airborne magnetic survey was conducted using a stinger type system mounted on an ASTAR helicopter operated by Silver King Helicopters Ltd of Smithers, British Columbia.

The stinger unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, Bartington Mag-03 Fluxgate, and Optilogic RS-400 Laser Range Finder

The C-824 Cesium Magnetometer is an extremely sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 50 Hz was employed.

The Mag-03 was connected to a Kana8 24-bit digitizer inside the helicopter, where the analog output from the X, Y, and Z components were digitized and synchronized to a GPS timing signal.

The respective digital outputs, were connected to a logging computer where the respective input was synchronized to an NTP time server, utilizing a GPS timing signal.

Flight line navigation data and helicopter height data was obtained using Hemisphere R330 GNSS receiver and Optilogic RS400 later range finder with a 10 Hz update rate.

Data logging and navigation were carried out utilizing Picoenviotech ANAV software on a Panasonic CF-19 Toughbook computer with a secondary 7" daylight viewable pilot navigation monitor.

In addition to the airborne unit the survey also utilized two GSM 19 overhauser magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the

SURVEY SPECIFICATIONS cont'd

The surveys were carried out with a mean bird height of some 38 meters.

Survey Area	# of Lines	# of Tie Lines	Total Distance
Aspen	89	9	874 km

DISCUSSION OF RESULTS.

The results of the 2021 airborne magnetic survey highlight a several trends of potetntial interest.

The 2021 survey was first merged with a historic survey, along with image of the magnetics obtained from Jiulian Resources web site as shown below to aid with the interpretation.

In the western portion of the survey area, a series of north northwesterly trending magnetic corridors can be readily observed within a mergeed magnetic dataset. These magnetic corridors appear to host the majority of historic mineral occurences in the area.

The north-northwesterly magnetic trend also appear to truncate two subparallel northeasterly trending magnetic units creating a somewhat complex magnetic expression, and giving the appearance on a arcuate magnetic pattern.

In the southeast poriton of the survey area the magnetic fabric exhibits a more northerly trend. A larger plug like magentic feature is situated in the southeast corner of the the claims which may be of interest.

Several weak northwesterly magnetic breaks can can also be observed cross cutting the afore mentioned units.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The 2021 airborne magnetic survey was designed to expand on existing magnetic coverage and identify magnetic features potentially related to porphyry style mineralization.

The survey successfully identified several magnetic trends which may be of interest over the Aspen Grove property potentially associated with mineralized units.

A detailed compilation of all historic data should be undertaken to put the magnetic data into a geological context with respect to lithology and mineralization.

Targets identified in areas of cover should then be tested with a large spaced induced polarization surveying.

Respectfully Submitted

P. Alexander Walcott, P. Geo.
Geophysicist

August 2022

APPENDIX I

PERSONNEL EMPLOYED ON PROJECT.

Name	Occupation	Address	Dates Worked
A. Walcott	Geophysicist	108-111 Fawcett Road, Coquitlam, B.C.	
Tom Kocan	Geophysical Operator		Feb 23-26 th , 2021
C. Goldwin	Pilot	Silver King Helicopters	“

COST OF PROJECT.

Peter E. Walcott & Associates Limited undertook airborne magnetic survey at a fixed cost of \$65.00 per line kilometers. An additional \$2,175.00 for helicopter positioning and \$750.00 for reporting. Thus, the total cost of services was \$59,725.00.

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 am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
3. I have been active in mineral exploration for the past 25 years.
4. I am currently employed by Peter E. Walcott & Associated Limited.

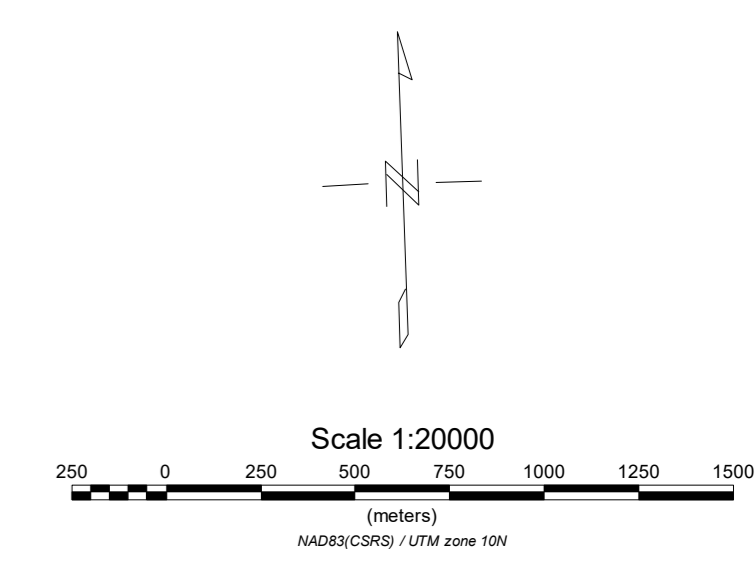
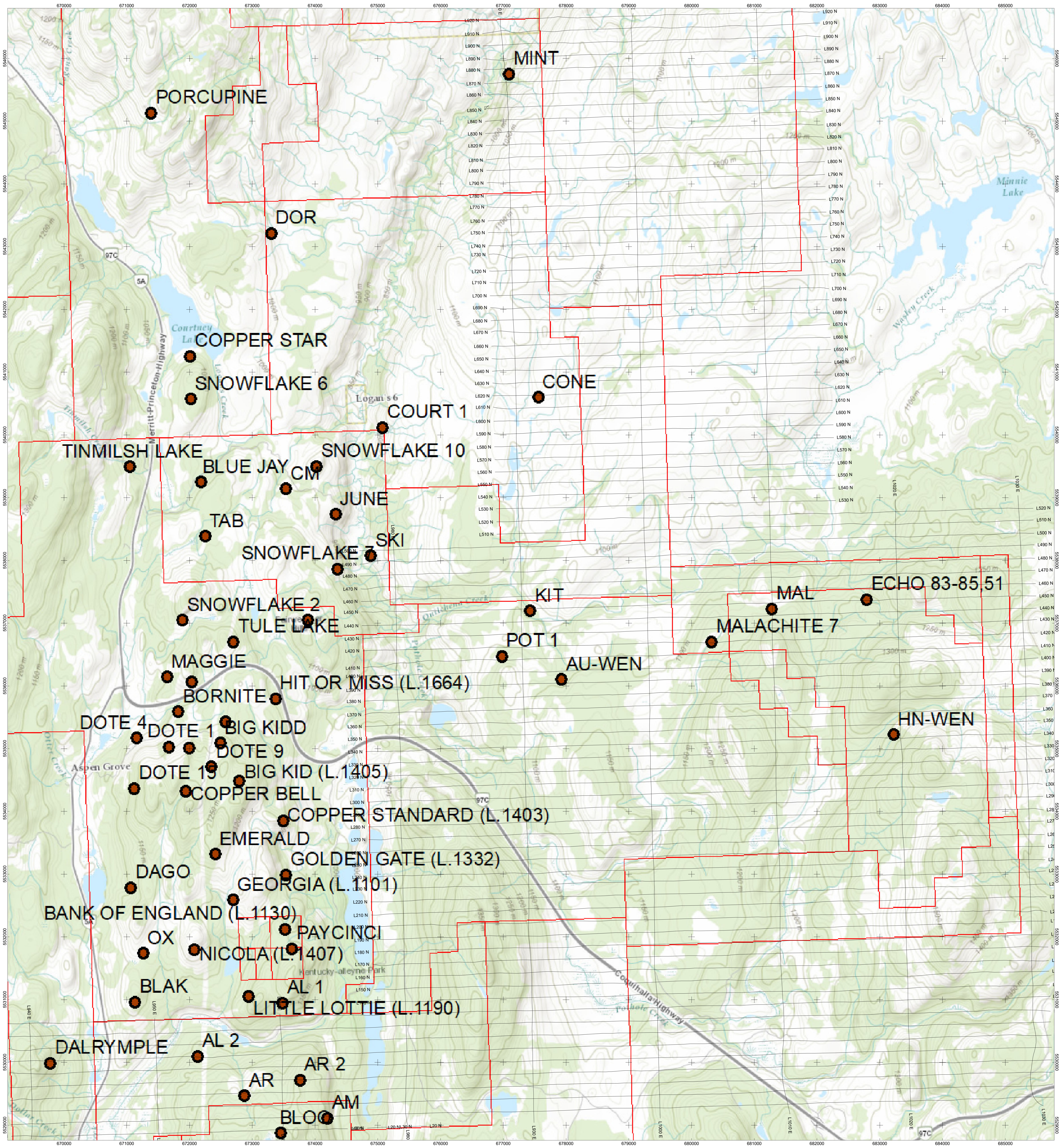
Alexander Walcott, B.Sc., P. Geo.

**Coquitlam, B.C.
August 2022**

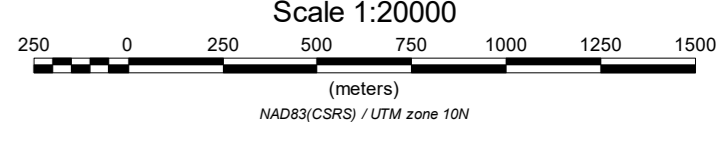
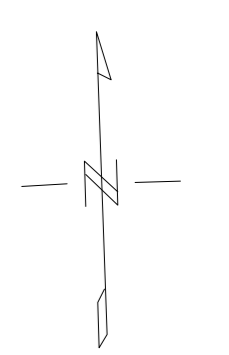
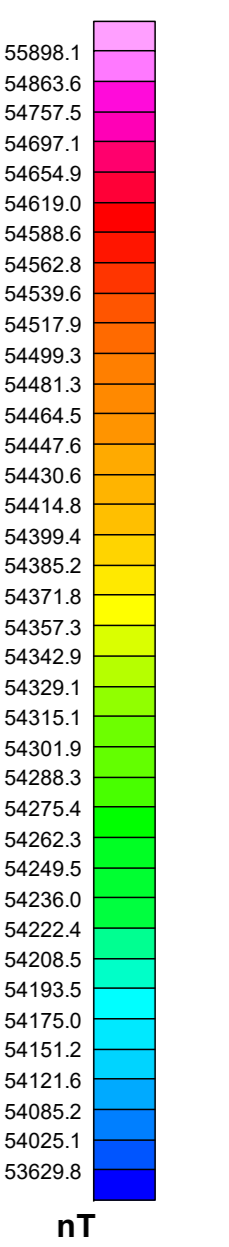
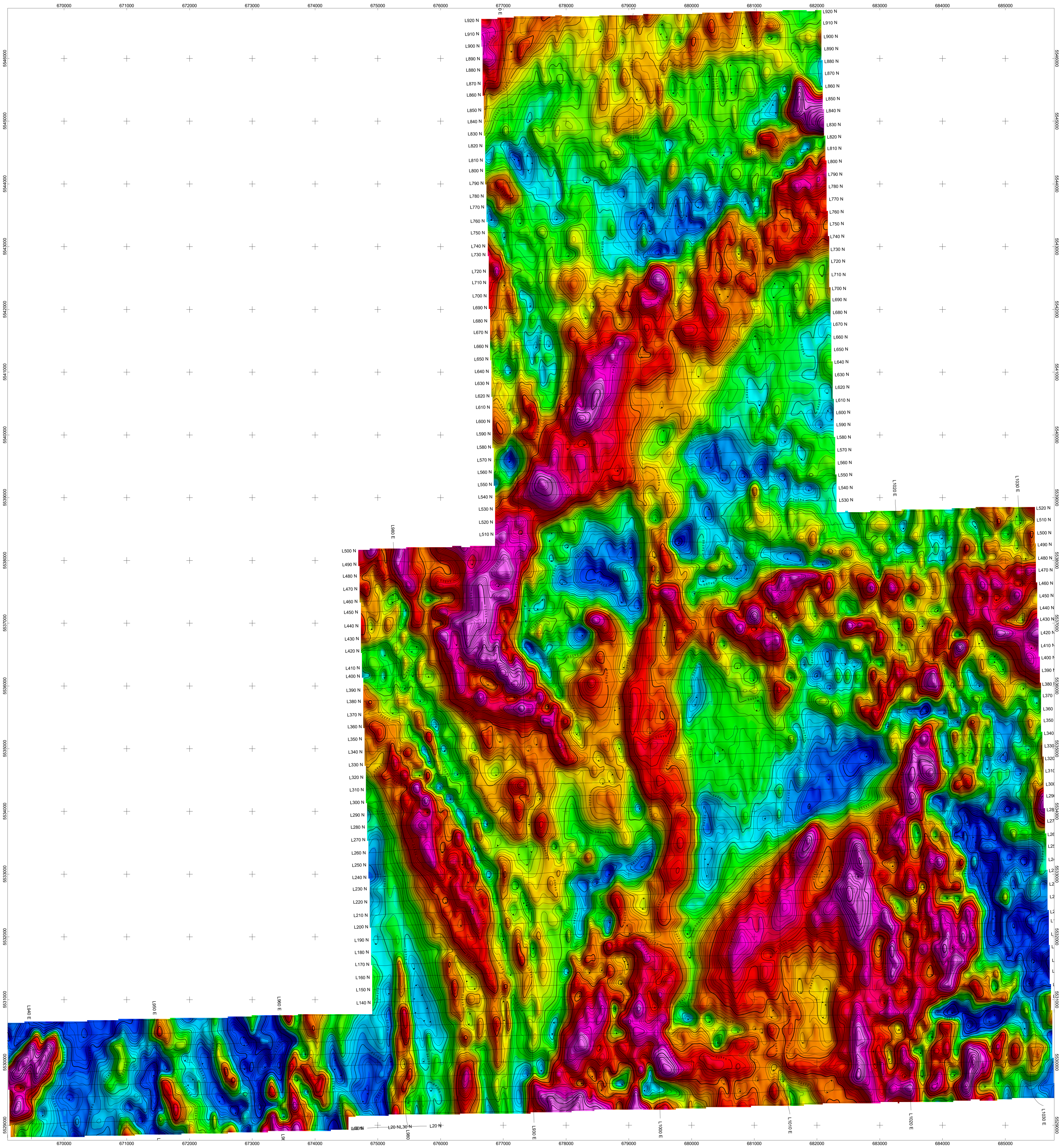
REFERENCES.

Smith P., 2007, Dighem Survey For Max Investments Inc. On Behalf Of Etna Resources Inc. Aspen Grove Project, B.C., Aris 29349

Juilian Resources Website, Airborne TMI (nT) Image



RICHARD BILLINGSLEY
 AIRBORNE MAGNETIC SURVEY
 CLAIM AND LINE LOCATION MAP
 ASPEN GROVE PROPERTY
 MERRITT AREA, B.C.
 FEBRUARY 2021
 PETER E. WALCOTT & ASSOCIATES LIMITED



RICHARD BILLINGSLEY
AIRBORNE MAGNETIC SURVEY
CONTOURS OF TOTAL FIELD INTENSITY (nT)
 ASPEN GROVE PROPERTY
 MERRIT AREA, B.C.
 FEBRUARY 2021
PETER E. WALCOTT & ASSOCIATES LIMITED

