

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

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

TOTAL COST: \$12,362.78

AUTHOR(S): Walcott, A. Walcott, P

SIGNATURE(S): digital

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Sept 4th-8th

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5665111

PROPERTY NAME: Frog South

CLAIM NAME(S) (on which the work was done): 1038654

COMMODITIES SOUGHT: Copper, Molybdenum, Silver, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094E164,094E030

MINING DIVISION: Liard

NTS/BCGS: 094E14

LATITUDE: 57. ° 57 ' 32 " LONGITUDE: 127 ° 15 ' 07 " (at centre of work)

OWNER(S):

1) Charles Greig, Lorne Warren, Alex Walcott

2) _____

MAILING ADDRESS:

38-181 Ravine Dr, Port Moody, V3H 4T3

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

1) as above

2) _____

MAILING ADDRESS:

as above

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

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 1674, 30681,30934, 33391

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	61	1038654	\$12,362.78
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:	\$12,362.78

**EVENT #5665109 & 5665111
AN ASSESSMENT REPORT
ON
AIRBORNE MAGNETIC SURVEYING
FROG NORTH & FROG SOUTH PROPERTIES
TOODOGGONE AREA, BRITISH COLUMBIA**

**LIARD M.D.
57° 58.9 'N, 127° 12.2'W
NTS 93E/ 14 & 94L/03**

Claims: 1038654 & 1038628

Work Dates: September 4th – 8th, 2017

FOR

**Charles Greig, Lorne Warren, Alex Walcott
BRITISH COLUMBIA**

BY

**ALEX WALCOTT, B. Sc.
PETER E. WALCOTT, P. Eng.**

**PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia**

APRIL 2018

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APPENDIX I

Cost of Project
 Personnel Employed on Survey
 Certification
 References

ACCOMPANYING MAPS

Claim & Line Location Map Frog North & Frog South	Scale 1:10,000
Contours of Total Field Intensity (nT) Frog North & Frog South Frog South & Frog North	Scale 1: 10,000

INTRODUCTION.

Between September 4th and 8th, 2017, Peter E. Walcott & Associates Limited undertook a heli-borne magnetic survey over the Frog North and Frog South properties for Charles Greig, Lorne Warren, Alex Walcott

The survey consisted of 135 line kilometers of detailed airborne magnetics flown with a nominal line spacing over two Blocks.

PROPERTY LOCATION AND ACCESS

The Frog property is located some 115 kilometres in the Stikine mountain range northwest of the community of Ft. Ware, British Columbia.

Access to the property is obtained via float plane from Muncho Lake situated on the Alaska Highway, some 137 kilometers to the northeast, and then by helicopter from a small fishing cabin situated on the northern shore of Frog lake.

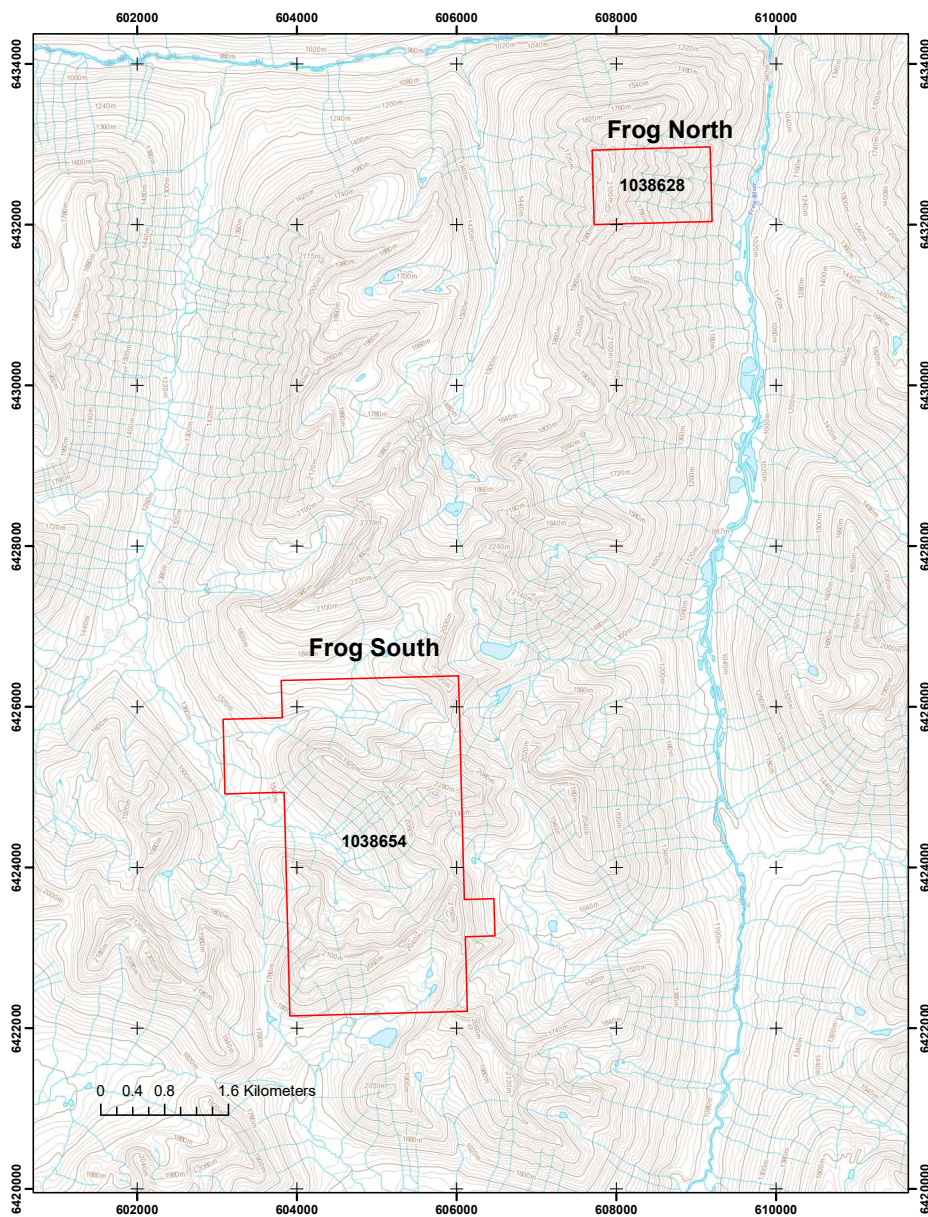
Alternatively, the project can be accessed by helicopter from Kemess mine site some 120 kilometers to the south-southeast where the crew was housed for the duration of this survey.

PROPERTY LOCATION AND ACCESS cont'd



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Claim Map

PREVIOUS WORK.

The first recorded work in the area was conducted in 1968 by Cordilleran Engineering Limited for Quebec Cartier Mining Company. Geological mapping and stream sediment sampling were undertaken, investigating for copper and molybdenum occurrences.

Bitterroot Resources Ltd. staked a portion of the Frog property in April 2007 to investigate elevated RGS stream sediments samples and in July of 2008, a four person crew spent a single day on the property collecting stream sediment samples. The results of the survey yielded extremely anomalous copper and molybdenum, with the highest value being 3200 ppm copper.

In 2011 International Samuel Limited optioned the Frog property from Alex Walcott and Charles Greig, and in late spring of 2011, flew a 1029 kilometer airborne magnetic survey with a nominal line spacing of some 200 meters.

A follow up prospecting and sampling program was later carried out in the summer with the collection of 117 samples. The results of the program proved sufficiently encouraging to conduct a second program in the following year.

In 2012, International Samuel Limited collected some 520 rock and talus samples, and recorded some 80 regional observation points. The results of the program showed highly anomalous copper / molybdenum values over a broad region.

However, given the remoteness of the project, International Samuel Limited terminated the option in September 2014.

In 2015, Peter E. Walcott & Associates undertook a review of geophysical and remote sensing data.

For further information the reader is referred to the Government of British Columbia Aris website.

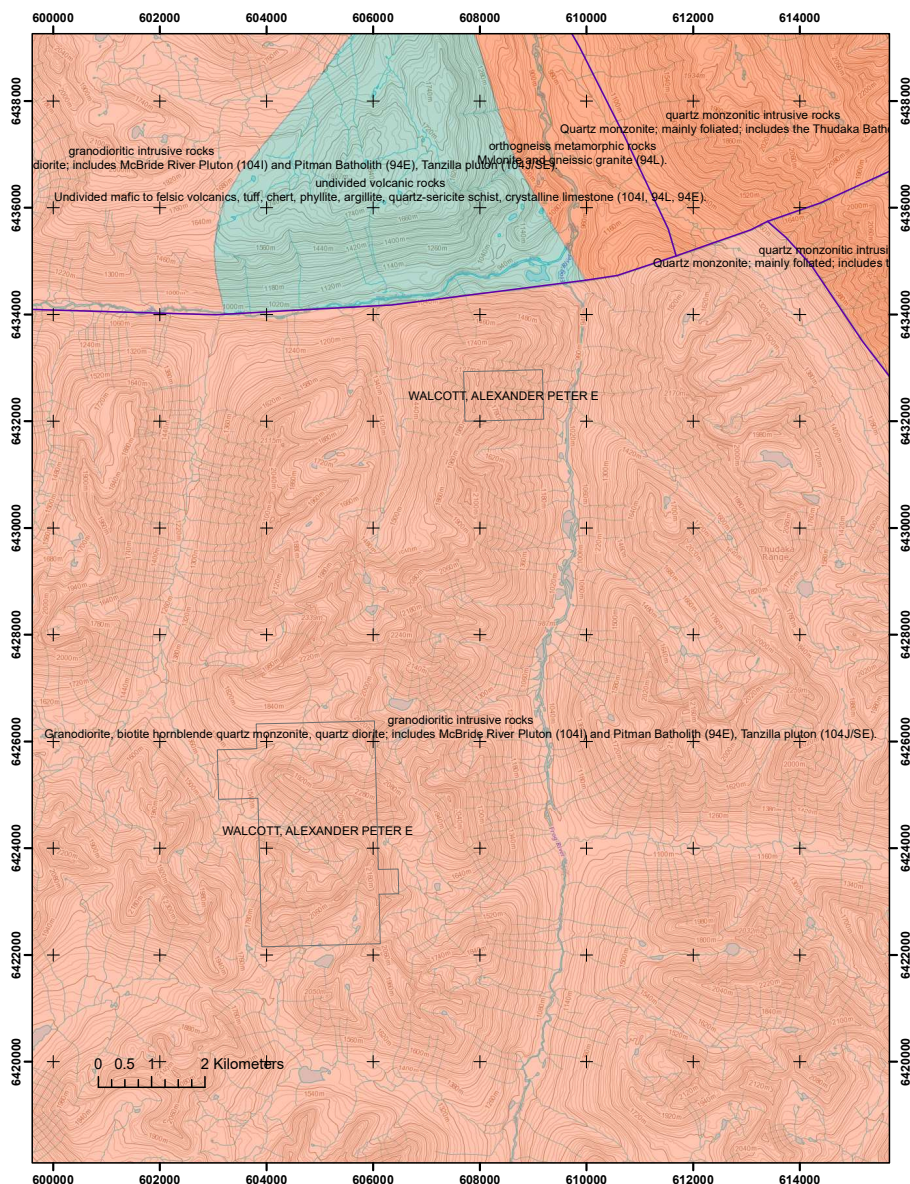
GEOLOGY.

The Frog property located in the Quesnellia terrane. Based on regional mapping the property appears to be underlain entirely by early Jurassic granodiorite intrusive rocks related to the Pitman Batholith. The property is bounded by the Pitman fault to the north, and Frog River fault in the east.

To date limited geological mapping has been undertaken in the project area, however the author would refer the reader to Aris reports 1674 and 30934, for a general synopsis of the geology.

For a detailed overview the author would refer the reader to the various assessment reports which contain detailed descriptions of the property geology.

GEOLOGY cont'd.



Property Geology After BCGS

PURPOSE.

The purpose of the survey was to re-fly select portions of the Frog property to locate subtle magnetic features which may be associated with mineralization observed within historic samples.

SURVEY SPECIFICATIONS.

The Airborne Magnetic Survey.

The airborne magnetic survey was conducted using a bird type system towed on a 65' line by a ASTAR BA (GSKJ) operated by Silver King Helicopters Ltd of Smithers, British Columbia.

The bird unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, AR3000 Laser Range Finder manufactured by Acuity of Portland, Oregon and a 19x GPS manufactured by Garmin International Inc. of Kansas City, Kansas.

The C-824 Cesium Magnetometer is a highly 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 10 Hz was employed.

The respective components were in turn connected to the helicopter via a shielded multi-conductor cable within the tow line for power and data transmission to the logging units on the helicopter.

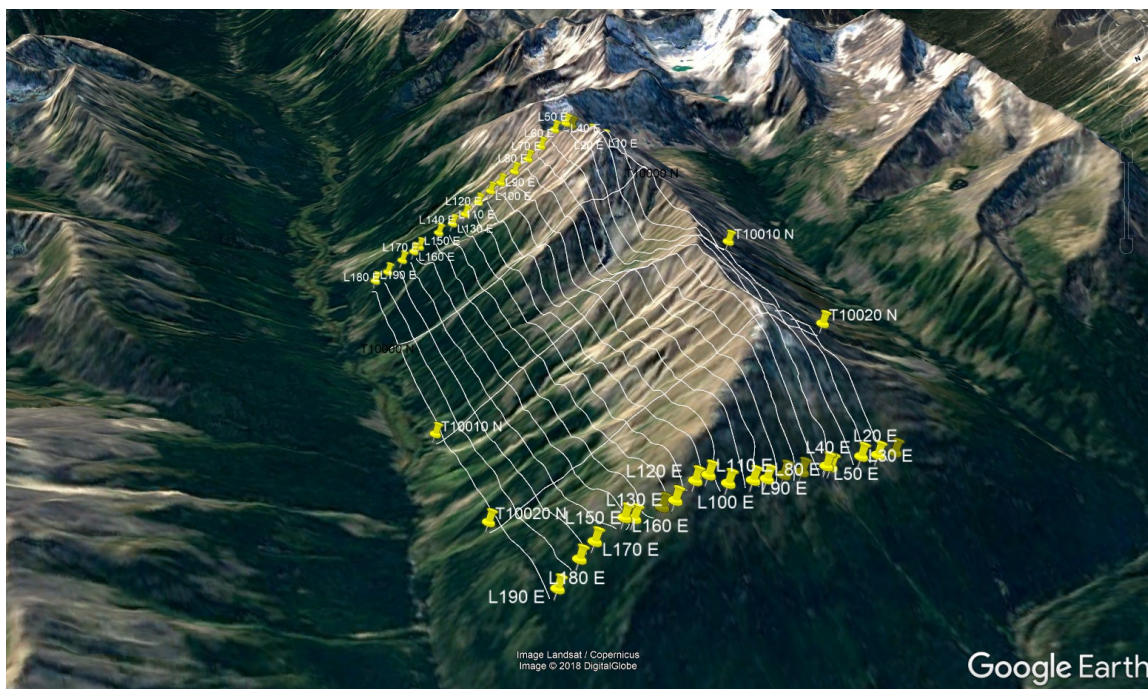
Flight line navigation data was obtained using Hemisphere R330 GNSS receiver with a 10 Hz update rate.

Data logging and navigation were carried out utilizing Geometrics MagLogPro 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 total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

SURVEY SPECIFICATIONS cont'd

Survey Area	# of Lines	# of Tie Lines	Total Distance	Mean Bird Height
Frog North	19	3	71 km	59.4 m
Frog South	20	4	61.1 km	61.1 m



Flight Lines Frog North in Google Earth

DATA PROCESSING AND PRESENTATION.

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing.

The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's Rangrid algorithm using a 17.5 meter cell size.

The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation.

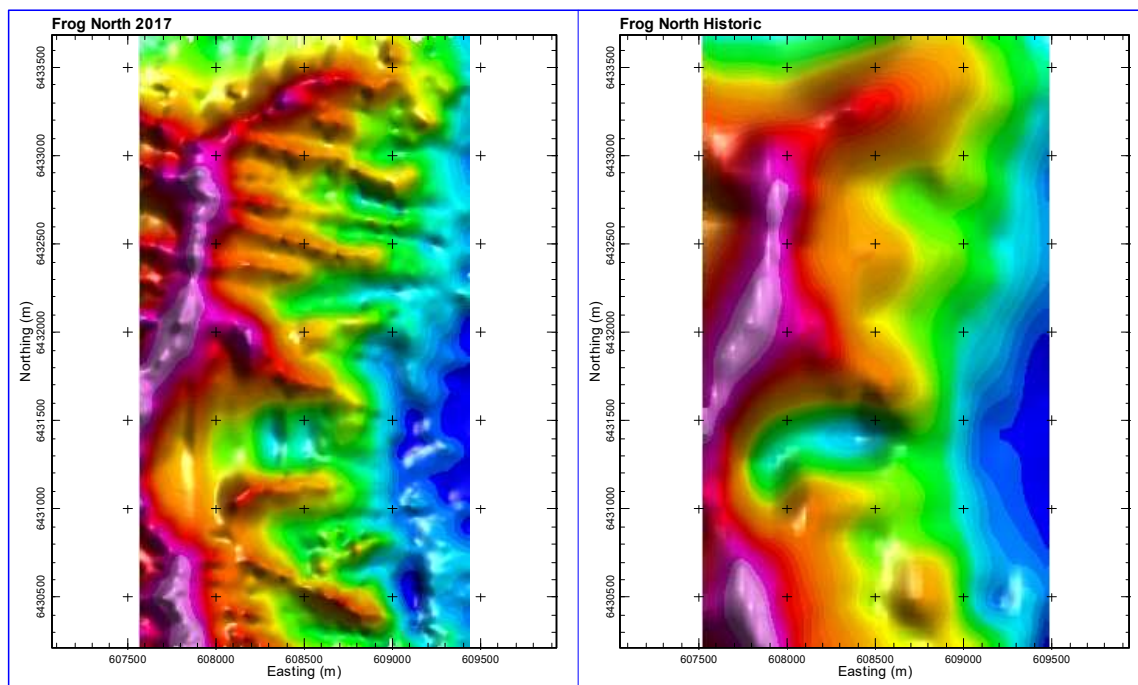
The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity

DISCUSSION OF RESULTS.

The 2017 high resolution airborne magnetic survey conducted over the Frog properties was designed to re-fly select portions of the Frog property which were previously flown by International Samuel Limited in 2011. This was carried out for two reasons; A) to achieve a higher density data B) to attempt to reduce the instrument high by varying the flight line directions.

Frog North

On the northern Block, the flight lines were orientated in a north-south direction along slope, to bisect a series of potential structures identified in the historic survey. This also allowed a significant reduction within the flight height.



*Flight Area Comparison Plot
Between 2017 & Historic Airborne Magnetics Surveys*

Unfortunately, due to weak magnetic response of the underlying rock unit, anomalous features are dominated by terrain effects and were unsuccessful in defining any discrete zones.

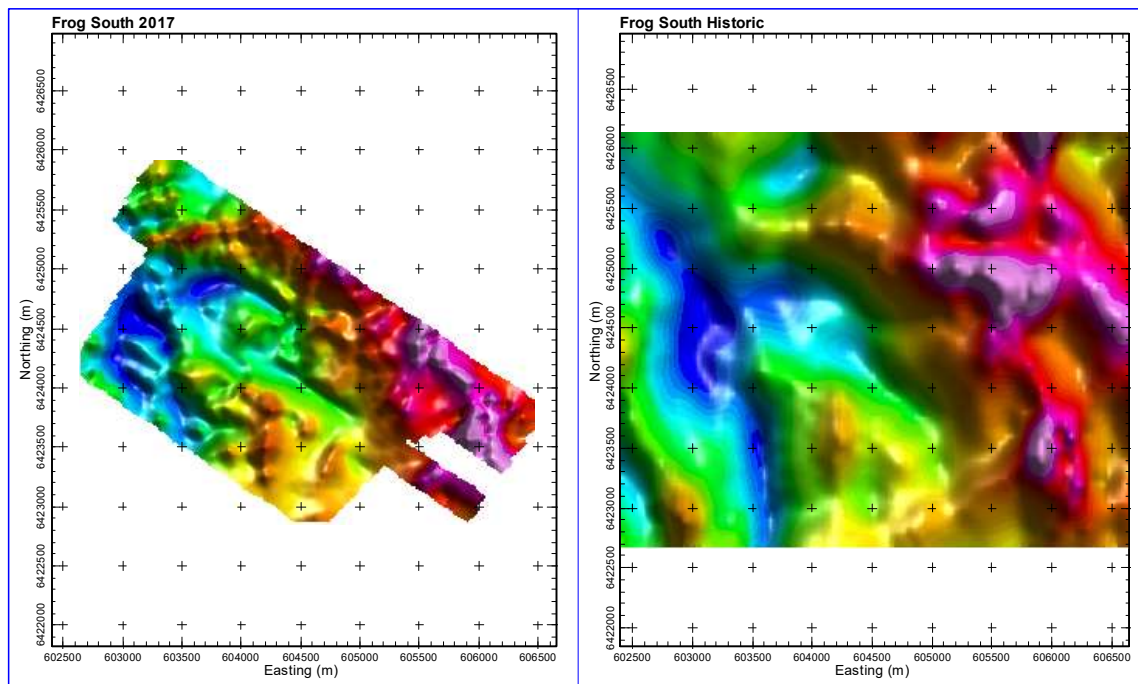
DISCUSSION OF RESULTS cont'd.

Frog South

The southern flight block, survey lines were orientated in a northeast-southwest orientation utilizing a 100-meter line spacing. The orientation was selected to be navigate the steep terrain and keep the bird height lower than the previous survey.

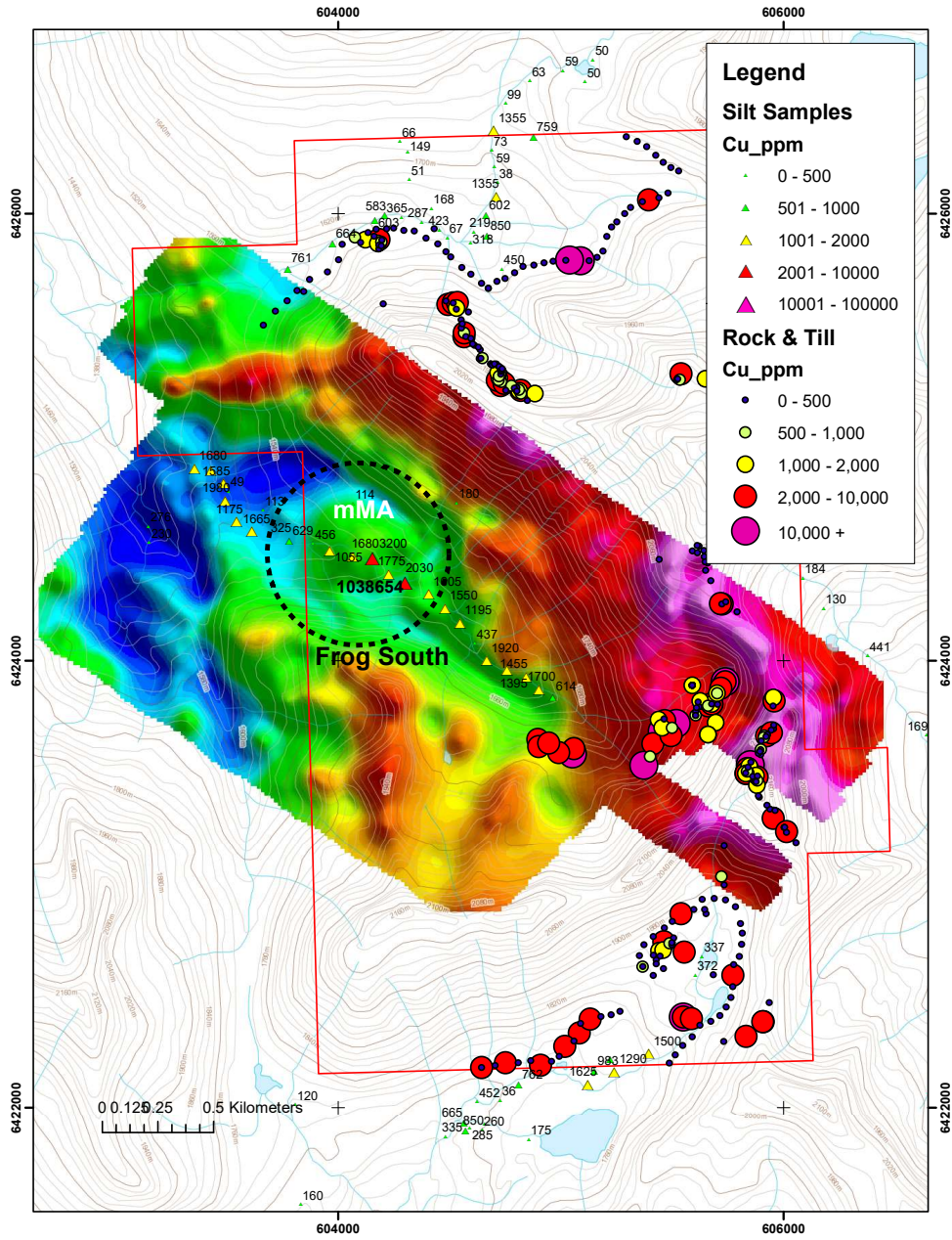
Similar the northern block, the results of the magnetic survey met with limited success. The airborne magnetic survey anomalies mimics terrain, except for a weak plug like feature within the valley bottom.

Anomaly mMA is situated in the middle of the survey block. The feature lies proximal to several extremely high copper silt samples, which maybe related to it, however these samples are more likely related to downslope dispersion.



*Flight Area Comparison Plot
Between 2017 & Historic Airborne Magnetics Surveys*

DISCUSSION OF RESULTS cont'd.



*Historic Copper Geochemistry of
2017 Airborne Magnetics*

SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

Between September 4th and 8th, 2017, Peter E. Walcott & Associates Limited undertook a high resolution airborne magnetic survey over two properties, located in the Toodoggone area of British Columbia.

The surveys were conducted using with a nominal spacing of some 100 meters on north-south and northwest-southeast orientations for the Frog North and South blocks respectively. In total some 135 line-kilometers of airborne magnetics was completed.

The survey met with limited success in identifying additional targets utilizing the total field magnetics, except for an extremely weak magnetic target in the southern block proximal extremely high copper silt sample.

Advanced 3D magnetic inversion techniques should be applied to the dataset to account for bird height and extreme topography variations. Geological mapping and geochemical sampling should then be carried out over any targets identified.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LTD.

**Alexander Walcott
Geophysicist**

**Peter E. Walcott, P.Eng.
Geophysicist**

**Coquitlam, B.C.
April 2018**

APPENDIX I

COST OF PROJECT.

Peter E. Walcott & Associates Limited undertook the survey on a day rate of \$3,500 per day, 5.2 hours of helicopters were used including ferry from Kemess at a rate of \$1500.00 per hour. A remote fuel cache was established and removed by Liard Air Tours for \$4,590.00.

Mobilization to Kemess was split with other projects for \$2000.00 including personnel, helicopter ferry, and accommodations. Thus, the total cost of services was \$19,190.00.

Based on flight hours 64.4% of the project was allocated to Frog South, and 35.6% to Frog North. Frog South incurred higher charges due to heavy winds in the cirque which aborted the initial attempt due to safety concerns.

PERSONNEL EMPLOYED.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Unit 111- 17 Fawcett Rd. Coquitlam, B.C. V3K 6V2	
Alexander Walcott	"	"	Sept 4 th -8 th , 2017
Pierre Bernier	Pilot	Silver King Helicopters.	"

CERTIFICATION.

I, Peter E. Walcott, of 605 Rutland Court, Coquitlam, British Columbia, hereby certify that:

1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practicing my profession for the last fifty two years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.

Peter E .Walcott, P.Eng.

**Coquitlam, B.C.
April 2018**

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.
April 2018**

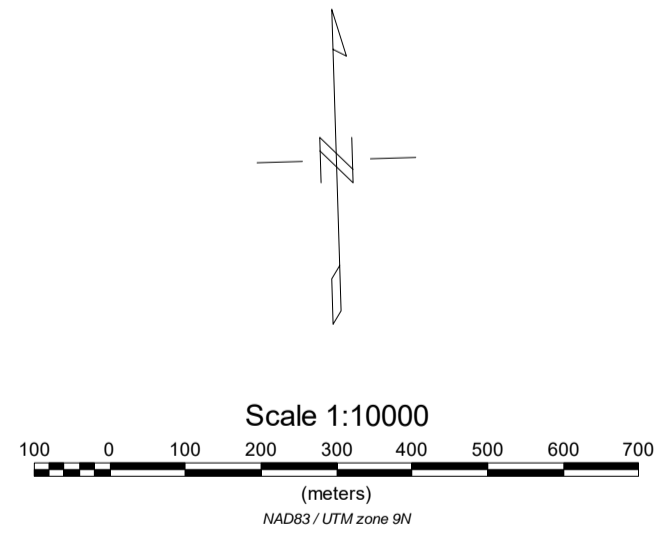
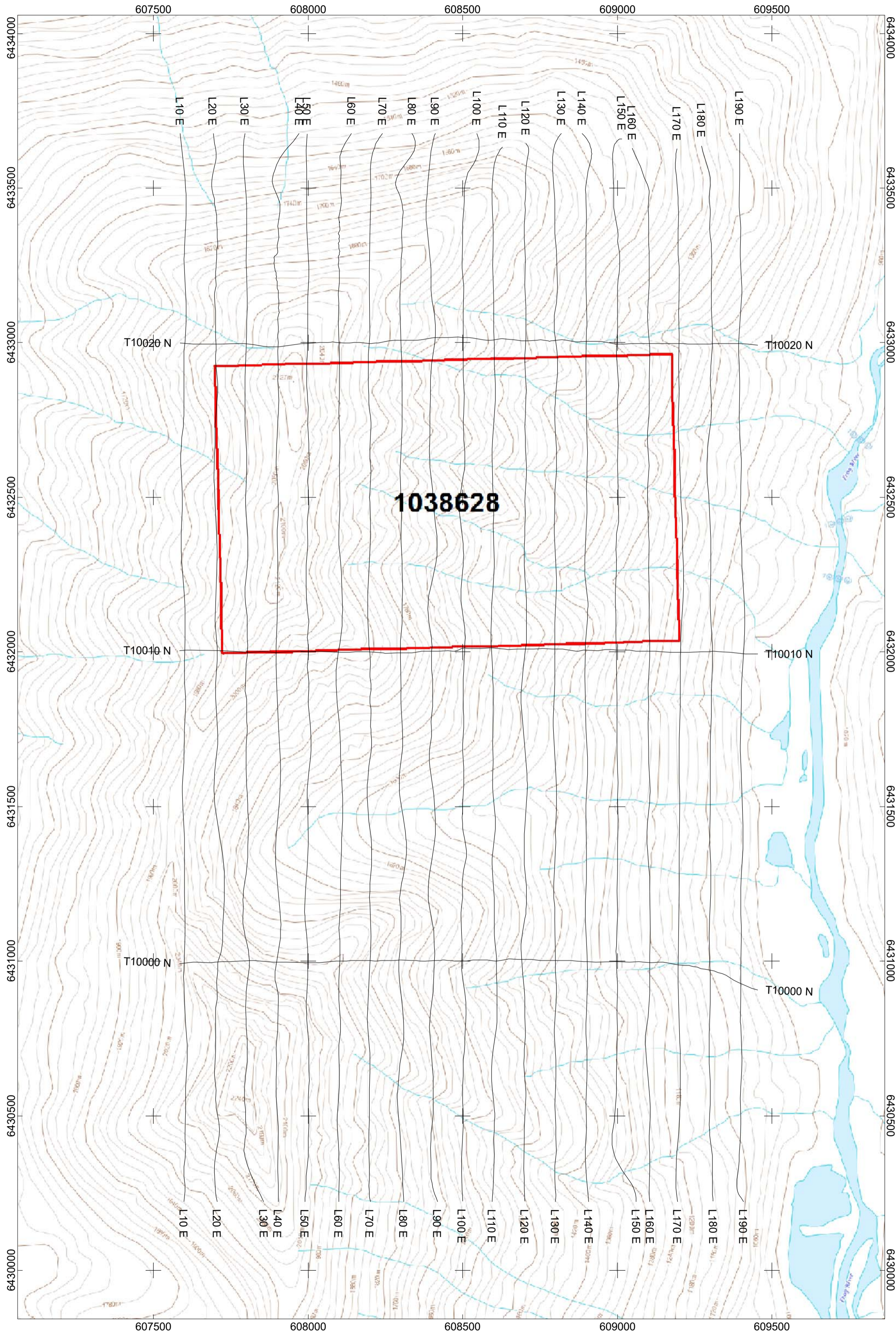
REFERENCES.

Bell, T. , A geochemical and Prospecting Report on the Copper Frog Property,
Liard Mining Division, British Columbia, Assessment Report 30934

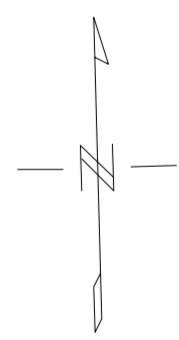
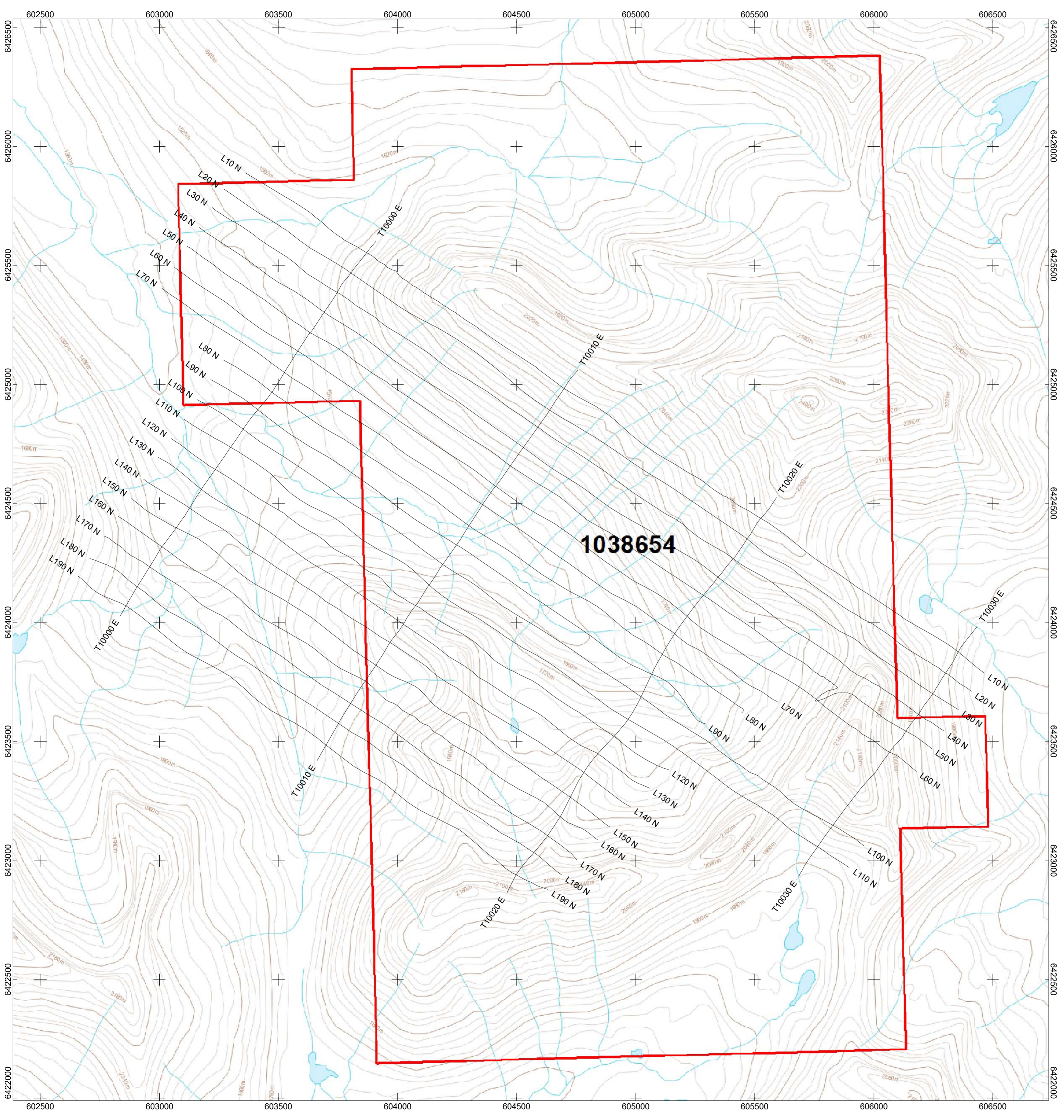
Flasha, S.T. and Greig C.J. , 2008 Stream Sediment Geochemistry,
Pit Bullfrog Property, Toodoggone River Area
Liard Mining Division, Northern British Columbia, Assessment Report 30681.

Kalninus, T. and Stollery, J.W. , Geological and Geochemical Report from July 21 to
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Liard Mining Division, British Columbia, Assessment Report No 1674.

Strickland, Derrick, Assessment Report on the Frog Property,
Liard Mining Division, Northern British Columbia, Assessment Report 33391

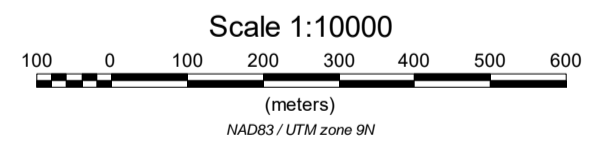
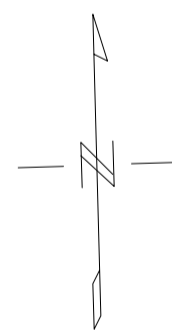
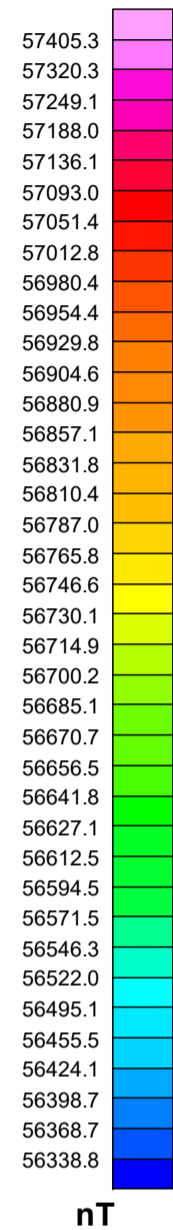
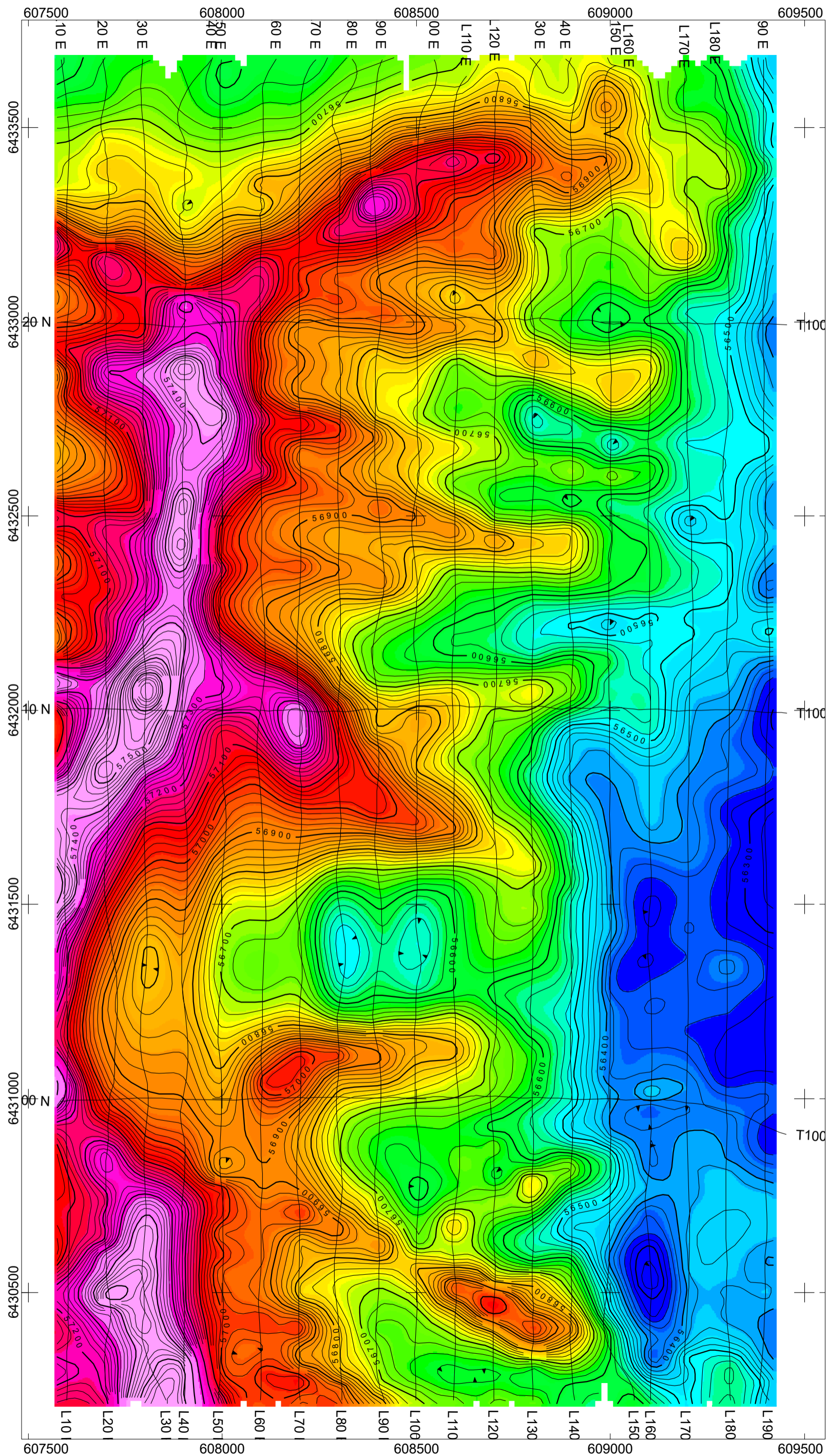


GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CLAIM AND FLIGHT LINE LOCATION MAP
 FROG NORTH
 TOODOGGONE AREA, BRITISH COLUMBIA
 SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED

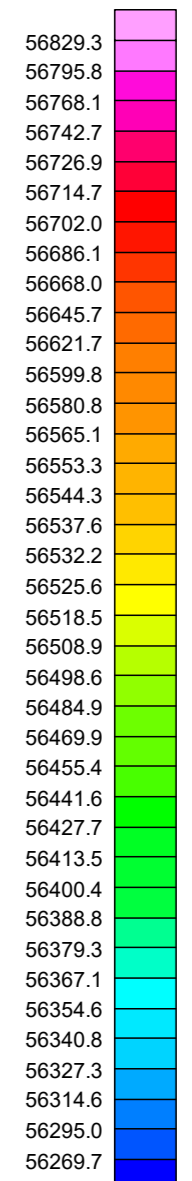
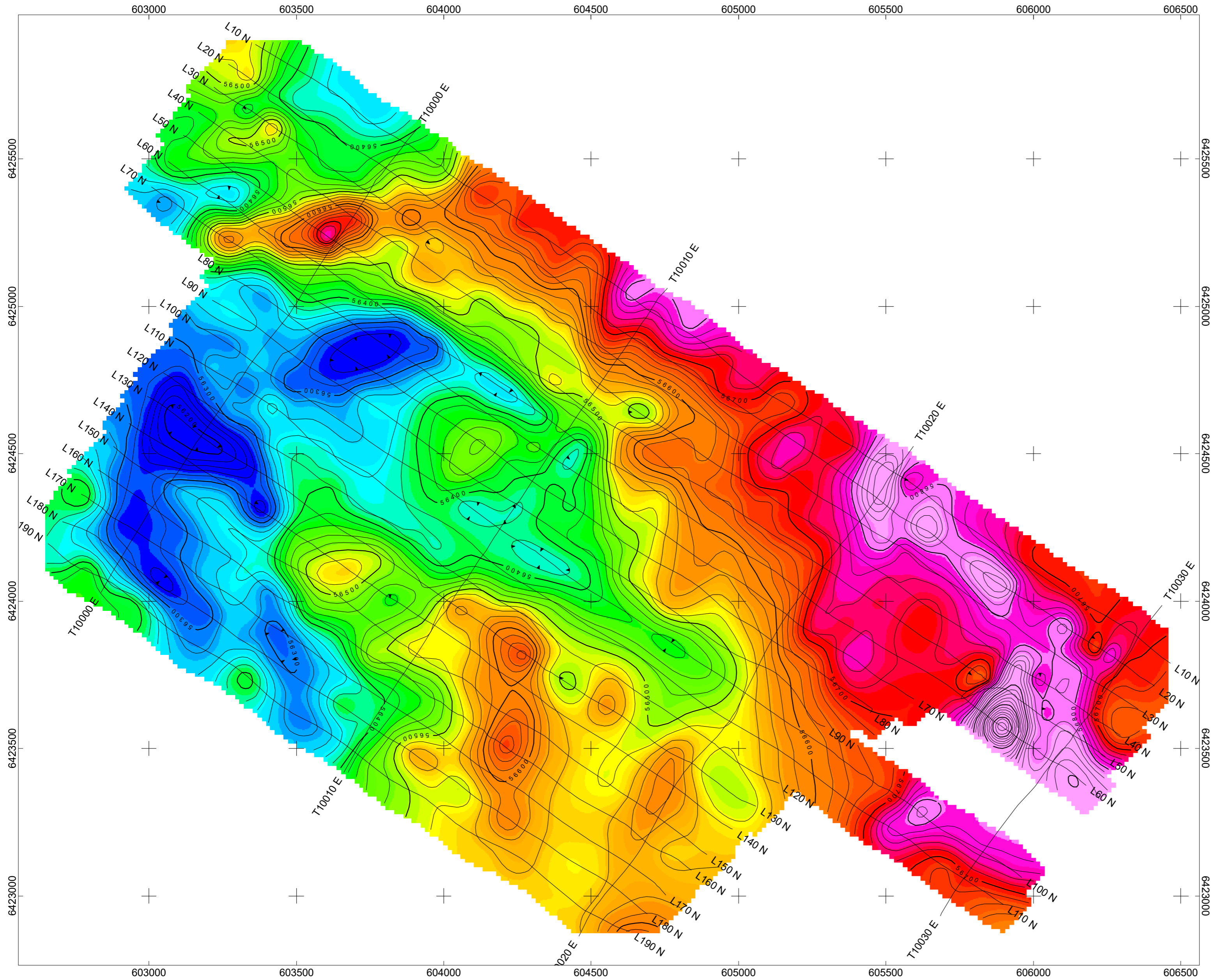


Scale 1:10000
 (meters)
 NAD83 / UTM zone 9N

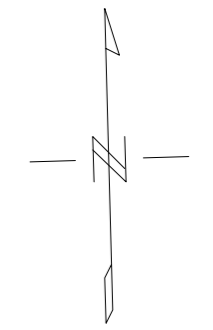
GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CLAIM AND FLIGHT LINE LOCATION MAP
 FROG SOUTH
 TOODOGGONE AREA, BRITISH COLUMBIA
 SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED



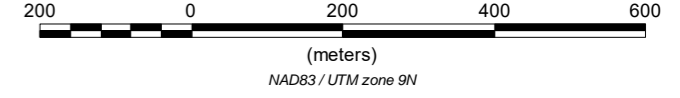
GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CONTOURS OF TOTAL FIELD INTENSITY (nT)
 FROG NORTH
 TOODOGGONE AREA, BRITISH COLUMBIA
 SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED



nT



Scale 1:10000



(meters)

NAD83 / UTM zone 9N

GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CONTOURS OF TOTAL FIELD INTENSITY (nT)
 FROG SOUTH
 TOODOGGONE AREA, BRITISH COLUMBIA
 SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED