

**BC Geological Survey  
Assessment Report  
37711**

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

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

TOTAL COST: 1300.00

AUTHOR(S): Walcott, A SIGNATURE(S): \_\_\_\_\_

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): July 10-11 YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5706464

PROPERTY NAME: Henry Lee Creek

CLAIM NAME(S) (on which the work was done): 1035123,1036765

COMMODITIES SOUGHT: Cu, Mo, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: \_\_\_\_\_

MINING DIVISION: Omineca NTS/BCGS: 94D/01, 93M/16

LATITUDE: 56 ° 0.462 ' \_\_\_\_\_ " LONGITUDE: 129 ° 19.4 ' \_\_\_\_\_ " (at centre of work)

OWNER(S):  
1) Alexander Walcott 2) Thomas Kocan

MAILING ADDRESS:  
38-181 Ravine Dr. 2485 Haversley Avenue  
Port Moody Coquitlam

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):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 27957,36025

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>	_____	_____	_____
<b>Other</b> Inversion	_____	1035123,1036765	1300.00
<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>	1300.00

**EVENT # 5706464**  
**AN ASSESSMENT REPORT**  
**ON**  
**3D MAGNETIC MODELLING**

**HENRY LEE CREEK PROPERTY**  
**KAZA LAKE AREA, BRITISH COLUMBIA**

**OMINECA M.D.**  
**56° 0.462'N, 126° 19.4'W**  
**NTS 94D/01,93M/16**

**Claims:**

**1035123,1036765**

**Work Dates: July 10<sup>th</sup>-11<sup>th</sup>, 2018**

**FOR**  
**ALEXANDER WALCOTT & THOMAS KOCAN**  
**PORT MOODY, BRITISH COLUMBIA**

**BY**  
**ALEXANDER WALCOTT, B.Sc**  
**PETER E. WALCOTT & ASSOCIATES LIMITED**  
**Coquitlam, British Columbia**

**NOVEMBER 2018**

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### APPENDIX I

Cost of Project  
 Personnel Employed on Project  
 Certification  
 References

### ACCOMPANYING MAPS

Claim and Flight Line Map	Scale 1:10,000
Contours of Total Field Intensity	Scale 1:10,000
Contours of Calculated Vertical Gradient	Scale 1:10,000
Contours of 3D Inverted MVI Amplitude 1100m, 1000m, 900m, 800m	Scale 1:10,000
EW Sections of 3D Inverted MVI Amplitude 6208800N-6210800N	Scale 1:10,000

## **INTRODUCTION.**

Between July 5<sup>th</sup>, and July 20<sup>th</sup>, 2018, Peter E. Walcott & Associates Limited undertook 3D inversions of a historic airborne magnetic survey over the Henry Lee property for Alexander Walcott and Thomas Kocan.

The 3d inversion was an attempt to gain a further understanding of the magnetics over the Henry Lee creek property, where a historic soil geochemical survey identified elevated levels of copper, molybdenum and gold potentially related to porphyry mineralization.

The dataset for the inversion consisted of some 81 line kilometers of airborne magnetics flown with a nominal line spacing of some 200 meters on east – west orientated lines, with north-south tie lines spaced with a nominal line spacing of some 1,000 meters.

## **PROPERTY LOCATION AND ACCESS**

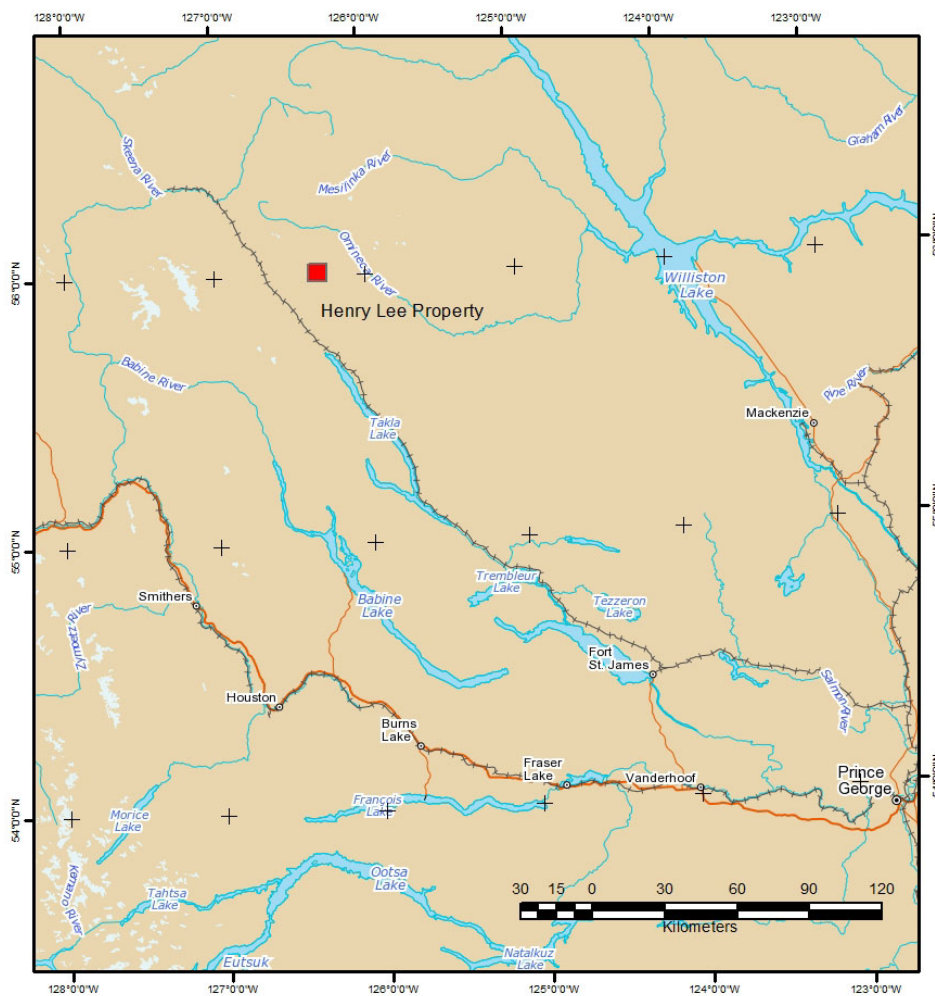
The Henry Lee Property is located some 145 kilometres northeast of the community of Smithers, British Columbia within the Omineca Mining Division.

The property is located on the Nechako Plateau in relatively gentle terrain, with light to moderate tree cover.

Access is obtained from Ft. St. James, via a network of resources roads to Silver Creek, and then by helicopter from Silver Creek, where the crew was housed for the duration of the survey.

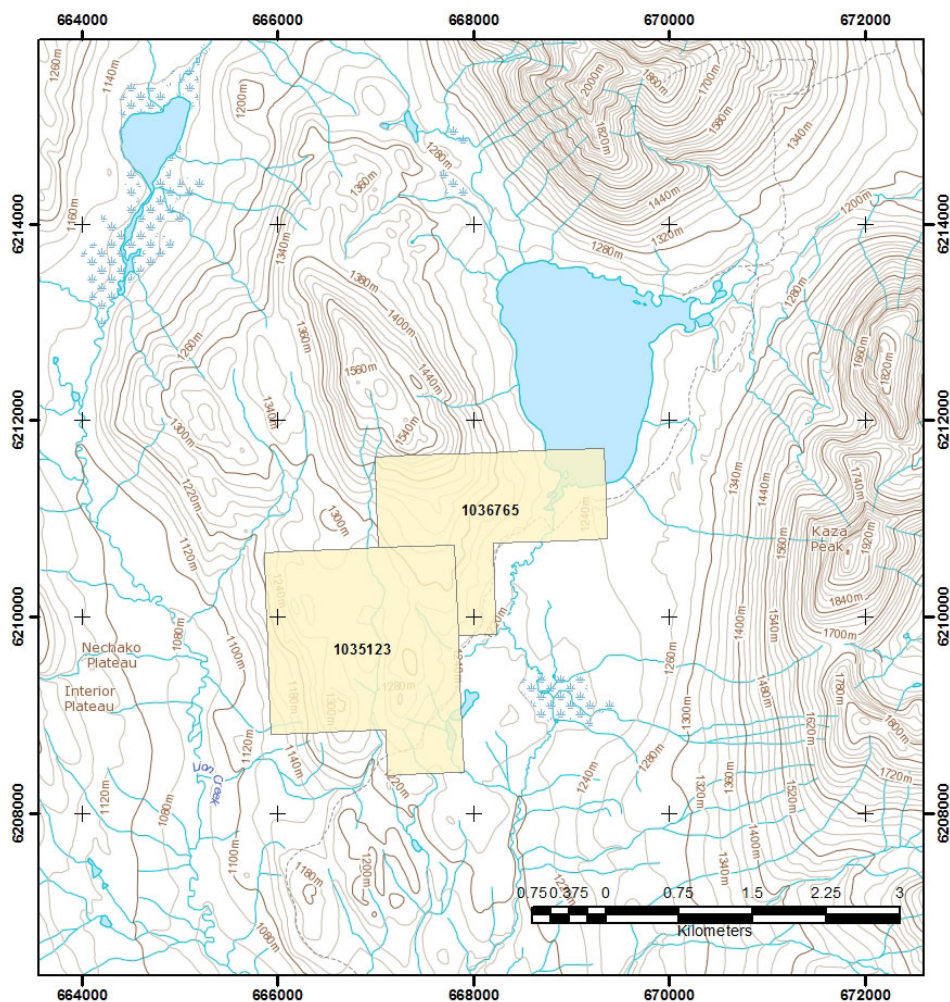
Alternatively, access can be gained via truck by the Leo creek and Driftwood FSR road respectively, and then by a network of spur roads to Kaza Lake.

**PROPERTY LOCATION AND ACCESS con't**



*Property Location Map*

**PROPERTY LOCATION AND ACCESS con't**



Claim Location Map  
With Current Tenures



**PROPERTY LOCATION AND ACCESS con't**



Flight Line Location Map

## **PREVIOUS WORK**

The Henry Creek property has only seen minimal recorded exploration work over the years.

While the property was included in the land holding of various companies over the years, the majority of the work in the area was focused on the Northstar, and Kaza Copper occurrences some 7 kilometers northeast and two kilometers to the south respectively.

The earliest recorded work within the survey area dates to 1969 when Bayfield Mines Ltd., conducted geological and geochemical sampling on the west side of Kaza Lake following up on a reconnaissance silt and soil sampling program conducted in 1967.

No other recorded work over the Henry Creek project can be located until 2004 when Northern Hemisphere Development Corporation undertook reconnaissance silt and soil geochemistry and geological mapping over the core of the Henry Creek Property which returned encouraging results.

Subsequently in 2005 a detailed soil geochemistry program was then conducted over the core of the property which returned anomalous values in copper, molybdenum and gold soil geochemistry, along with geological mapping. While geochemical signatures were that of porphyry style mineralization, alteration and rock textures did not support this thus no further work was carried out by Northern Hemisphere over the survey area.

In 2012, Blind Creek carried out a MMI soil geochemistry program immediately to the south of the property, and defined a number of weak geochemistry anomalies.

In 2015, Peter E. Walcott & Associates Limited undertook airborne magnetic surveying and subsequent ground follow-up program was carried out the following year, however the results were not filed.

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

## **GEOLOGY AND MINERALIZATION**

The Henry Lee Creek property is situated within the Intermontane Belt of the Canadian Cordillera. The property and area is underlain by Stikine Terrain consisting of the following geological units.

Takla Group, Savage Mountain Formation – Triassic aged volcanic rocks

Hazelton Group, Telkwa Formation – Jurassic aged volcanic rocks.

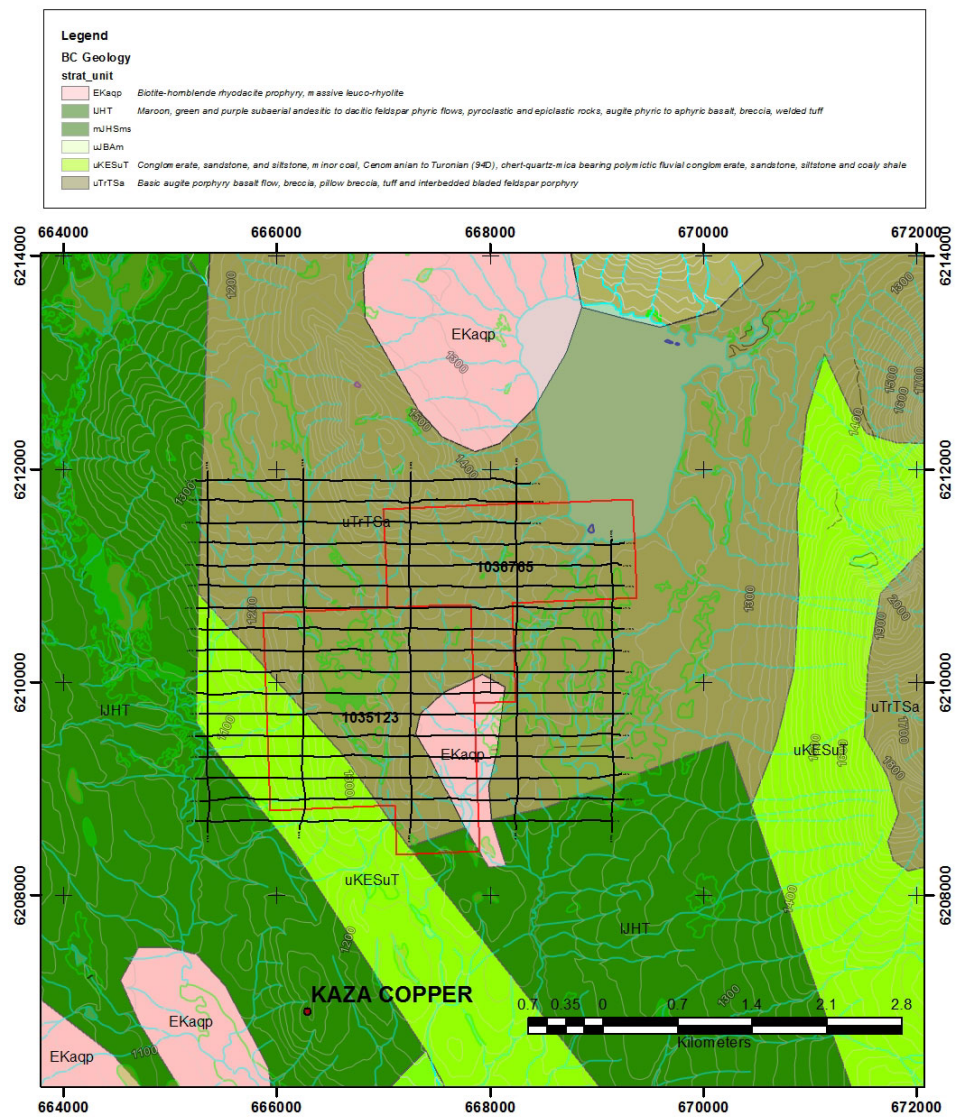
Sustut Group, Tango Creek Formation – Upper Cretaceous to Eocene ages sedimentary rocks.

Kastberg Plutonic group – Eocene aged intrusive rocks.

The property is centered on a large Kastberg Suite, quartz monzodioritic stock, hosted by Lower Jurassic Hazelton Group, Telkwa Formation calcareous basalts and feldspar porphyritic basalts. (Schulze, 2005)

Within the property boundary, two types of mineralization were previously observed; intrusive hosted chalcopyrite-molybdenite enriched quartz veining and copper-gold-molybdenite skarn mineralization within volcanic country (Schulze, 2005)

**GEOLOGY AND MINERALIZATION cont'd.**



Claim Block on Regional Geology  
From BCGS

**PURPOSE**

The purpose of the inversion project was an attempt to gain further insight into the results of the historic airborne magnetic survey proximal to an area a historic copper, gold, and molybdenum soil geochemistry anomaly in the central portion of the property.

## **DATA PROCESSING AND 3D INVERSION.**

The historic airborne magnetic database was first recovered from a geophysical archive held by Peter E. Walcott & Associates Limited.

The dataset was then loaded into Geosoft Oasis Montaj. A brief review of the data was then undertaken prior to ensure no errors prior to conducting the 3D inversion.

The 3D inversion for the airborne magnetics utilized the Geosoft Voxi platform. Two inversions using both conventional susceptibility modelling, along with the magnetic vector inversion technique were then carried out.

A mesh utilizing a 25 meter cell size was first created. Elevations for the 3D model were derived from a TRIM elevation model.

The raw non-leveled total magnetic field values were then loaded into the inversion software with the respective error for modelling. This also utilized the sensor elevation obtained from a laser altimeter mounted on the bird.

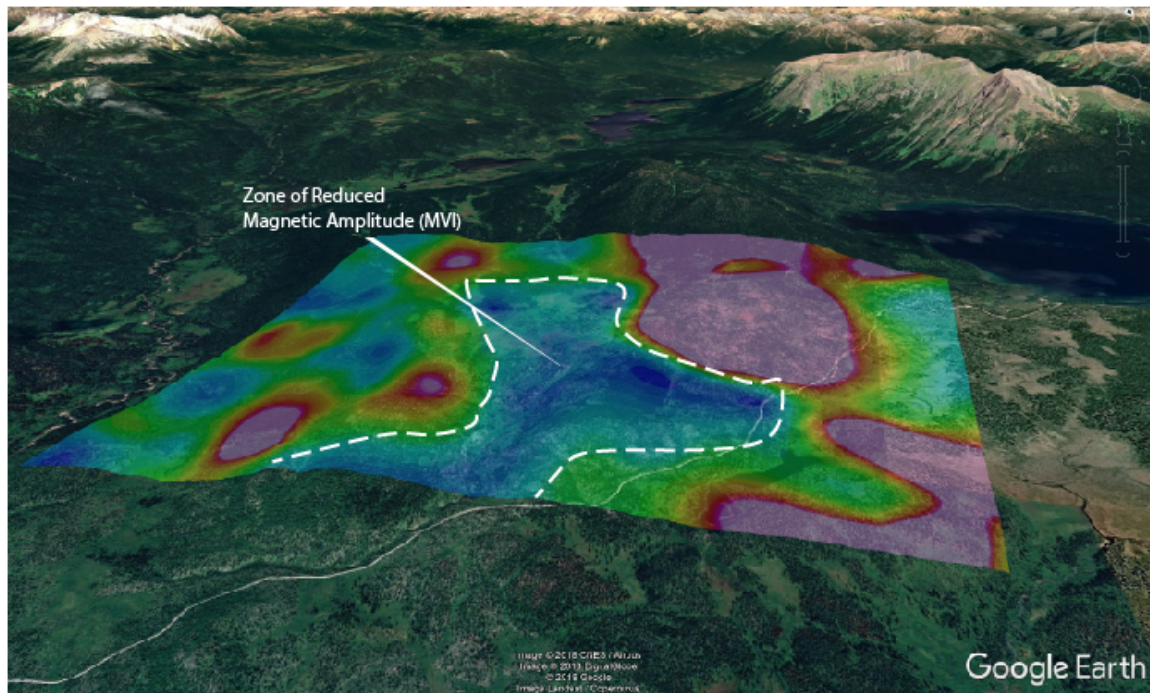
A series of inversion were then carried out testing different parameters and cell sizes.

The resulting product was a voxel containing magnetic susceptibility and magnetic amplitude for the conventional and MVI inversion respectively.

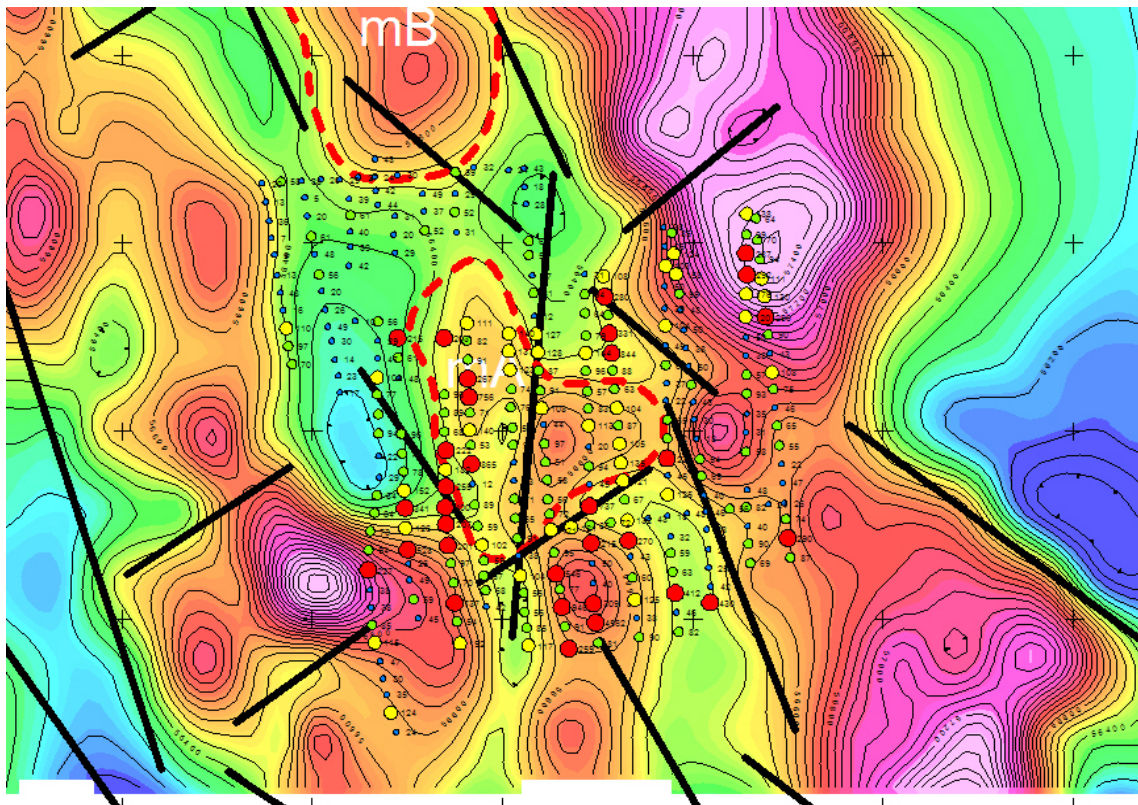
## **DISCUSSION OF RESULTS.**

The 2018 - 3D magnetic inversion of the historic airborne magnetic survey was an attempt to leverage any additional information from the historic survey proximal to the historic working as part of an ongoing study.

The resulting inversion shows a distinct north-northwesterly trending zone of reduced magnetic intensity at depth beneath the historic geochemical survey. The feature also appears to be associated with a slight topographical depression, and potentially associated with a broad alteration zone.



MVI Amplitude – 800 ASL

**DISCUSSION OF RESULTS cont'd.**

Copper Geochemistry On TMI  
Over Central Portion of the Property.



## **SUMMARY, CONCLUSIONS & RECOMMENDATIONS**

In the Summer of 2018, Peter E. Walcott & Associates Limited undertook 3D magnetic inversion over Alexander Walcott and Thomas Kocan's Henry Lee Creek Property.

The results of the magnetic vector inversion show a broad zone of reduced magnetics situated proximal to elevated geochemistry observed within historic data.

This elevated copper, gold and molybdenum soil geochemistry anomaly, appears to be contained within this broad magnetic feature, which is also associated within a depressional region of topography.

Ground geophysical is recommended through this area. Induced polarization should be undertaken across on broad spaced lines over the magnetic feature utilizing a 100 meter a-spacing measuring at least the first to sixth separations.

**Respectfully submitted,**

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**Alexander Walcott, B.Sc.  
Geophysicist**

**Coquitlam, B.C.**

**November 2018**

**APPENDIX I**

**COST OF PROJECT.**

Peter E. Walcott & Associates Limited undertook the project at a fixed rate of \$1,300.00 including reporting.

**PERSONNEL EMPLOYED ON PROJECT.**

<b>Name</b>	<b>Occupation</b>	<b>Address</b>	<b>Dates</b>
Peter E. Walcott	Geophysicist	Unit 111- 17, Fawcett Rd. Coquitlam, B.C. V3K 6V2	
Alexander Walcott	"	"	July 10 <sup>th</sup> -11 <sup>th</sup> , 2018

**CERTIFICATION.**

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

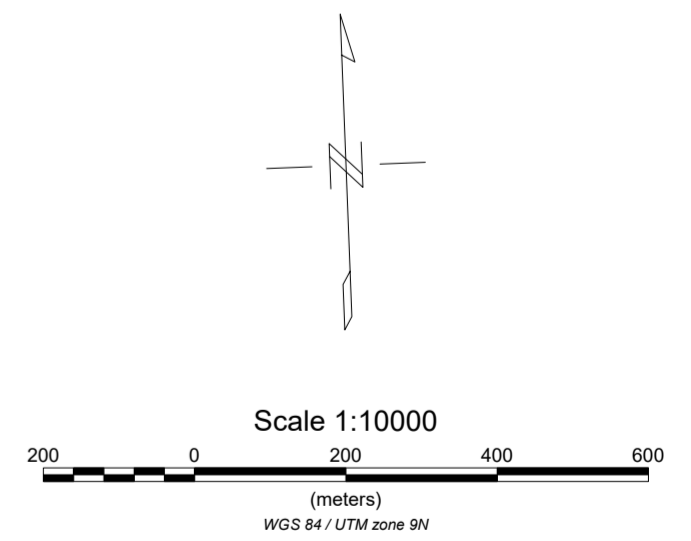
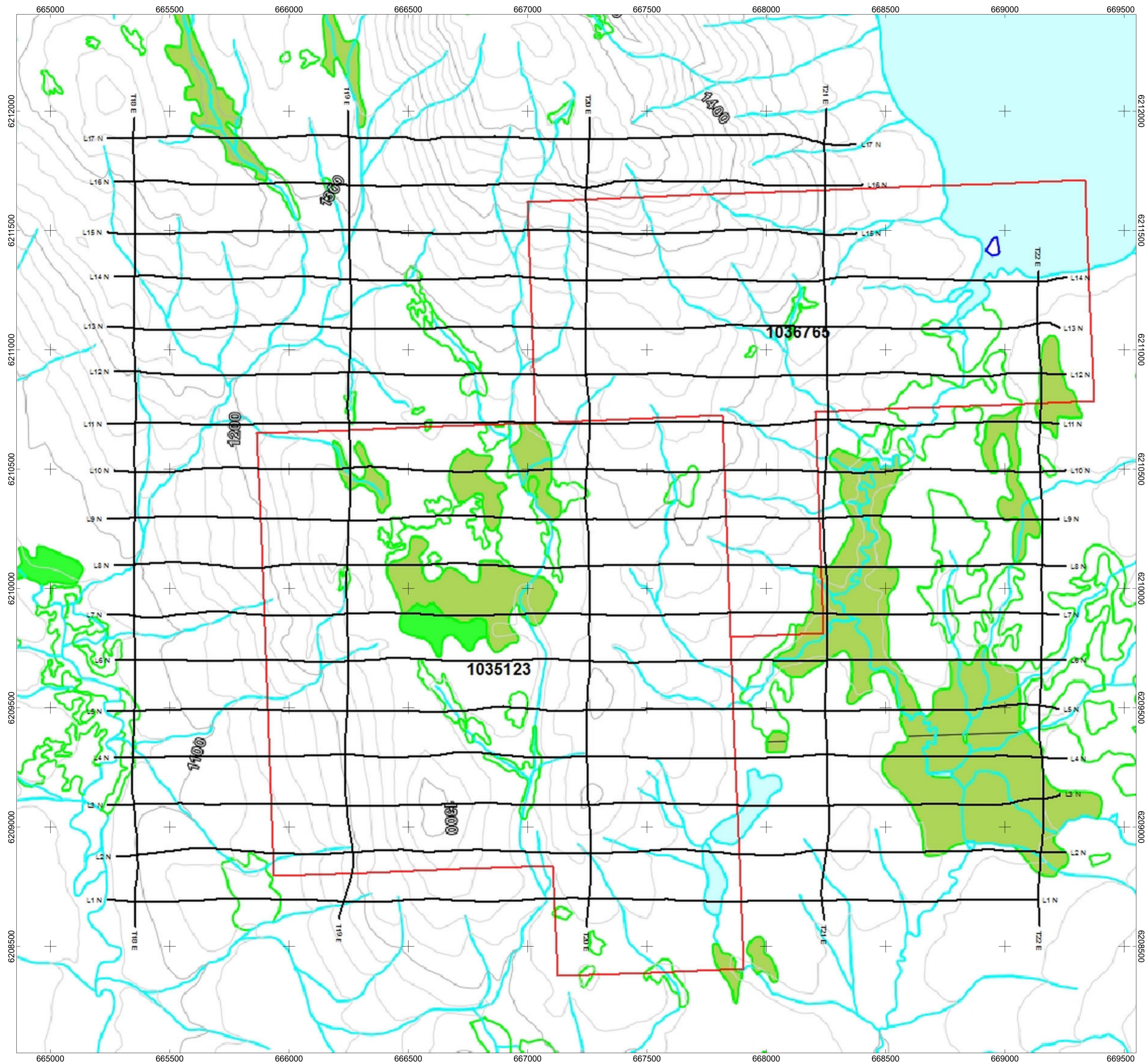
1. I am a graduate of the University of Alberta with a B.Sc. Earth Sciences Major, with a Physics Minor.
2. I have been active in mineral exploration for the past 20 years.
3. I am currently employed by Peter E. Walcott & Associated Limited.

**Alexander Walcott, B.Sc.**

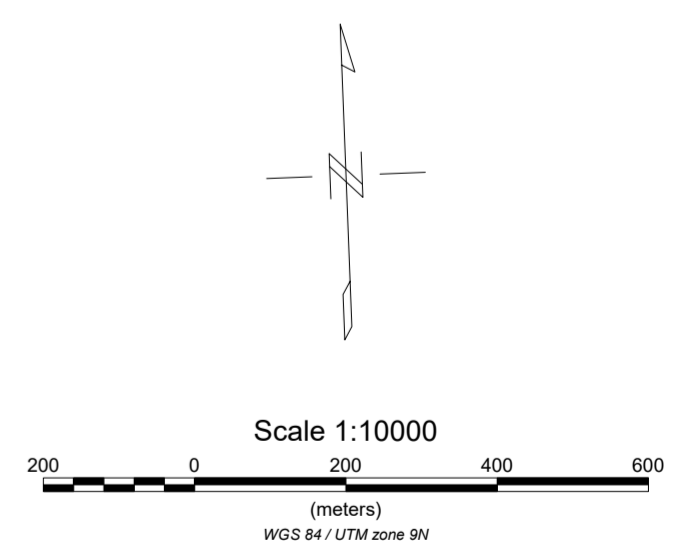
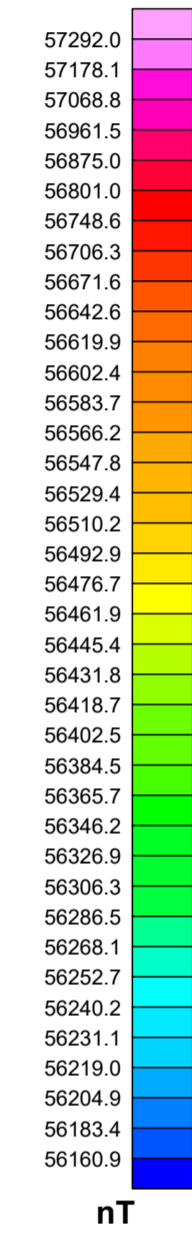
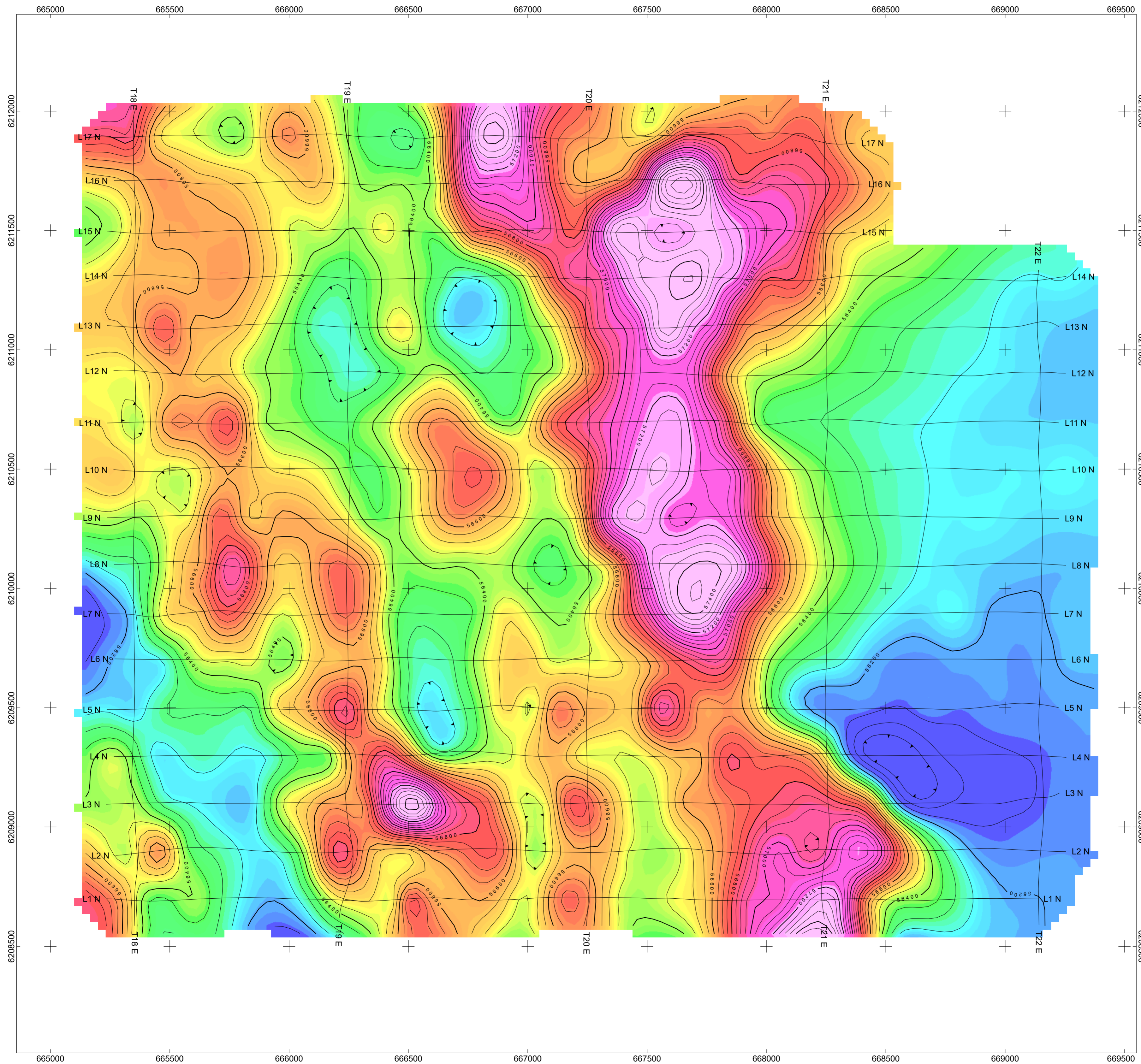
**Coquitlam, B.C.  
November 2018**

**REFERENCES.**

Schulze, C. , Northern Hemisphere Development Corporation – Year-2005 Results from Diamond Drilling and Surface Exploration On the Northstar and Henry Lee Creek Project Areas, Omineca Mining Division, British Columbia, Assessment Report 27957

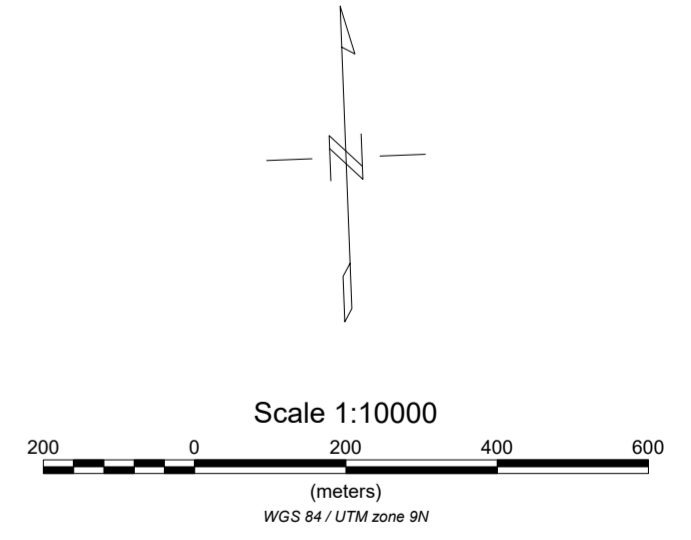
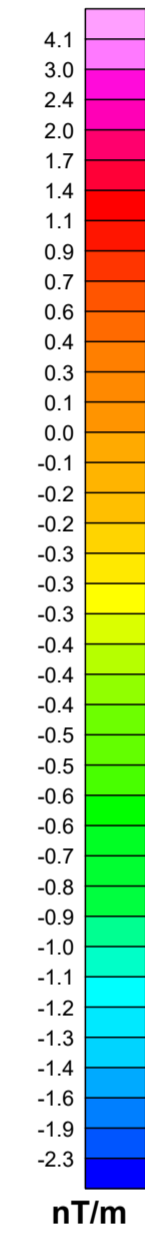
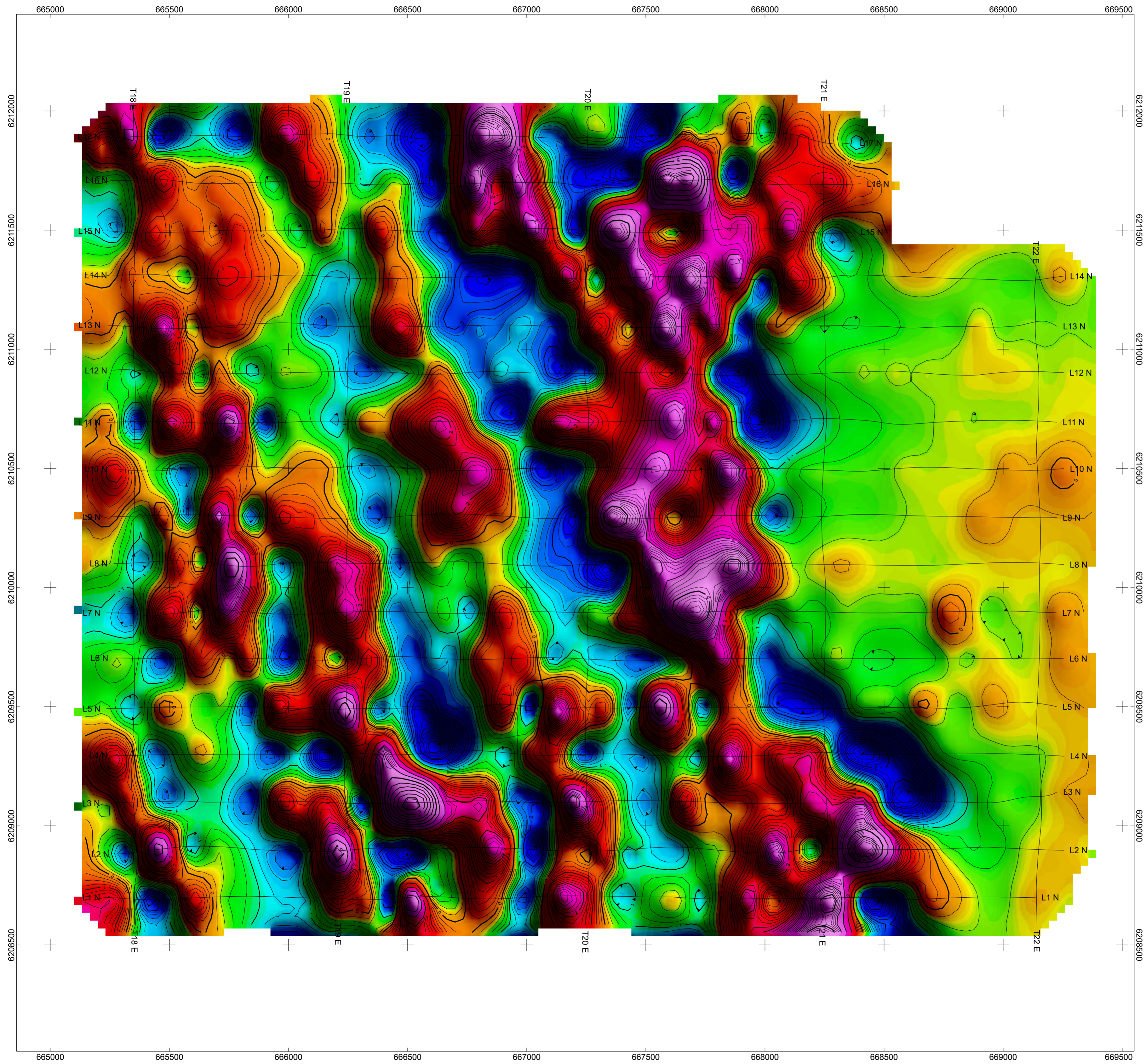


<b>ALEXANDER WALCOTT</b>
<b>AIRBORNE MAGNETIC SURVEY CLAIM AND LINE LOCATION MAP</b>
HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>

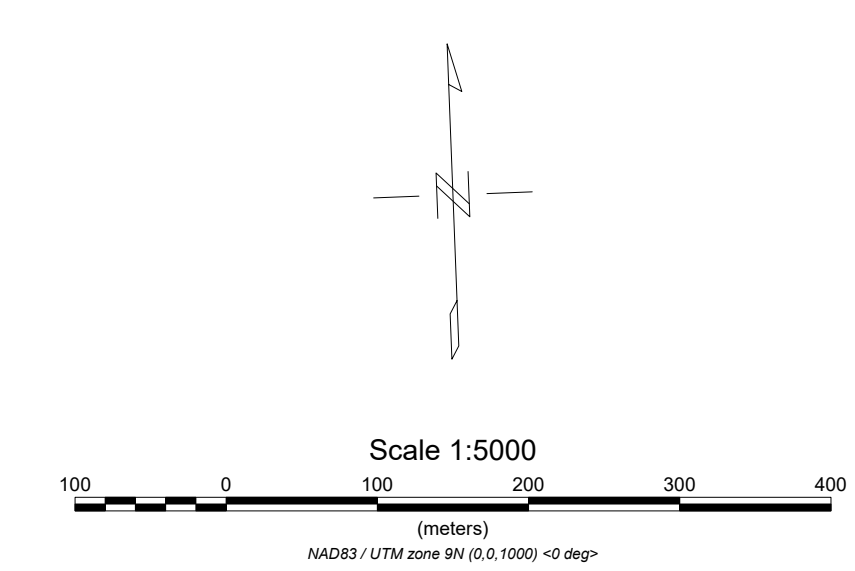
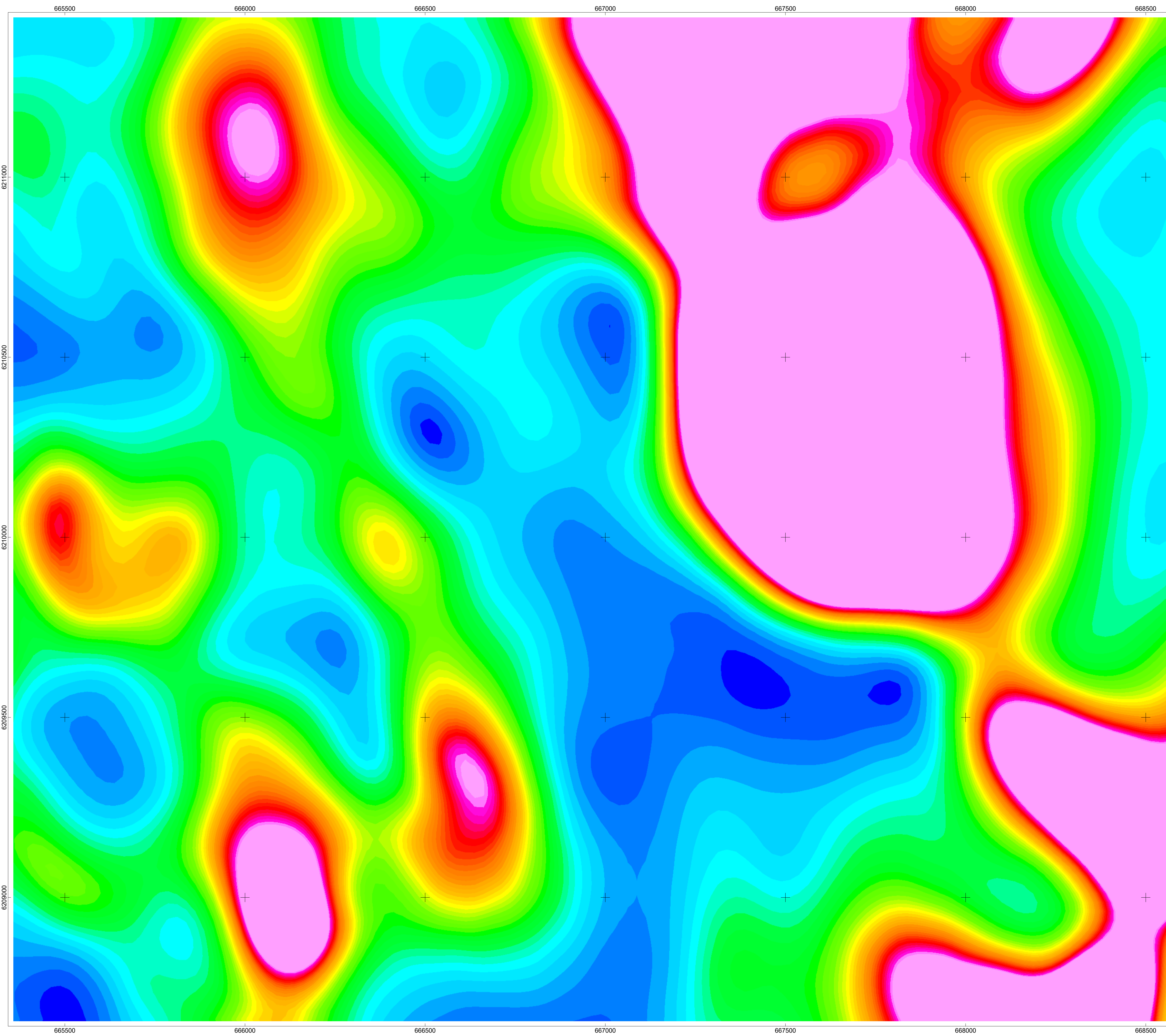


**ALEXANDER WALCOTT**  
**AIRBORNE MAGNETIC SURVEY**  
**CONTOURS OF TOTAL FIELD INTENSITY (nT)**  
 HENRY LEE CREEK PROJECT  
 KAZA LAKE AREA  
 SUMMER 2018  
**PETER E. WALCOTT & ASSOCIATES LIMITED**

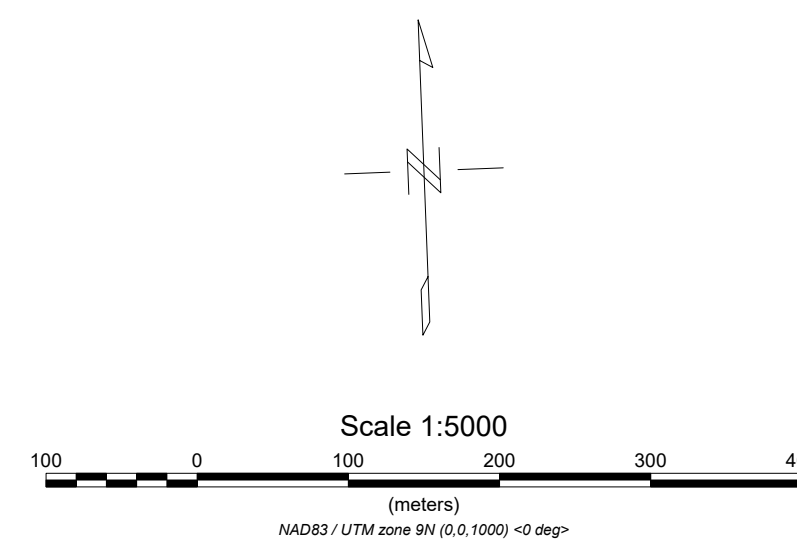
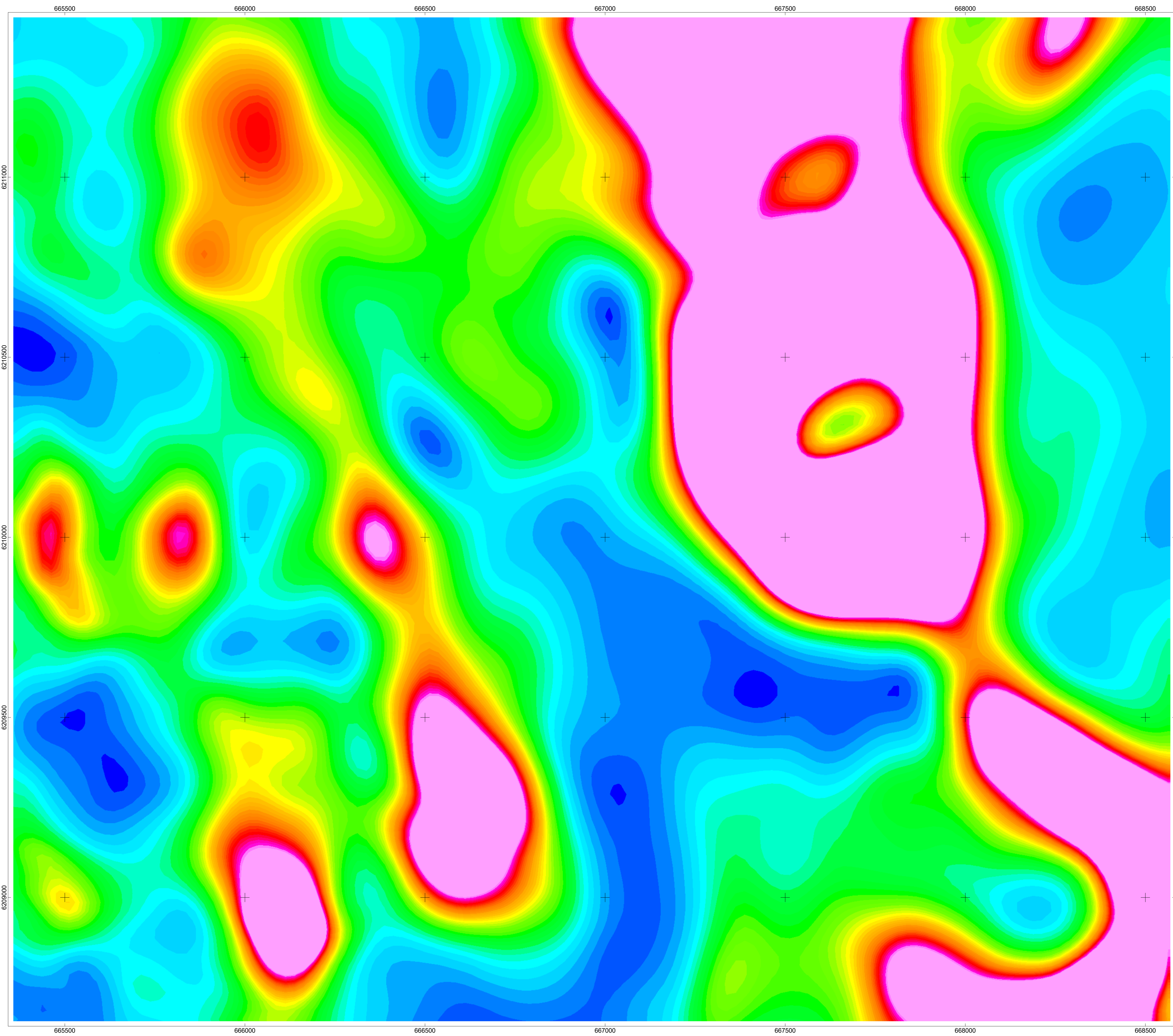




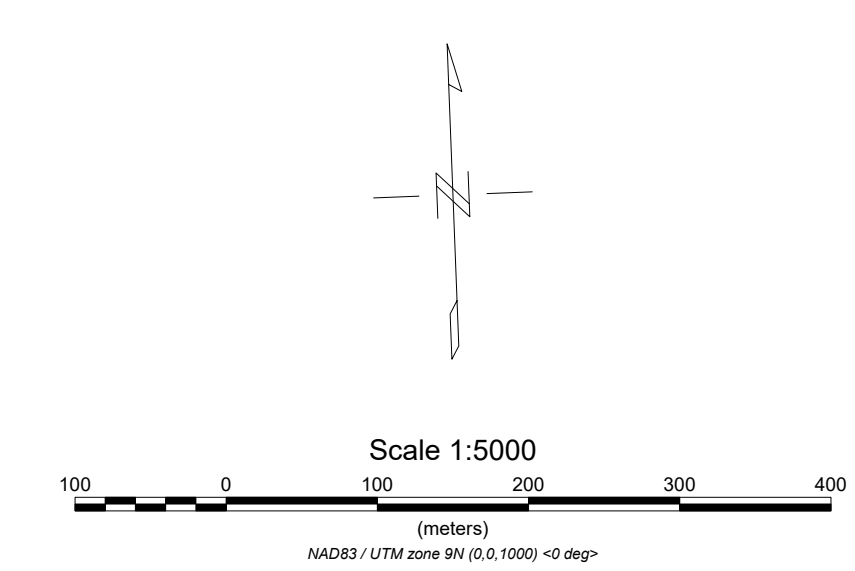
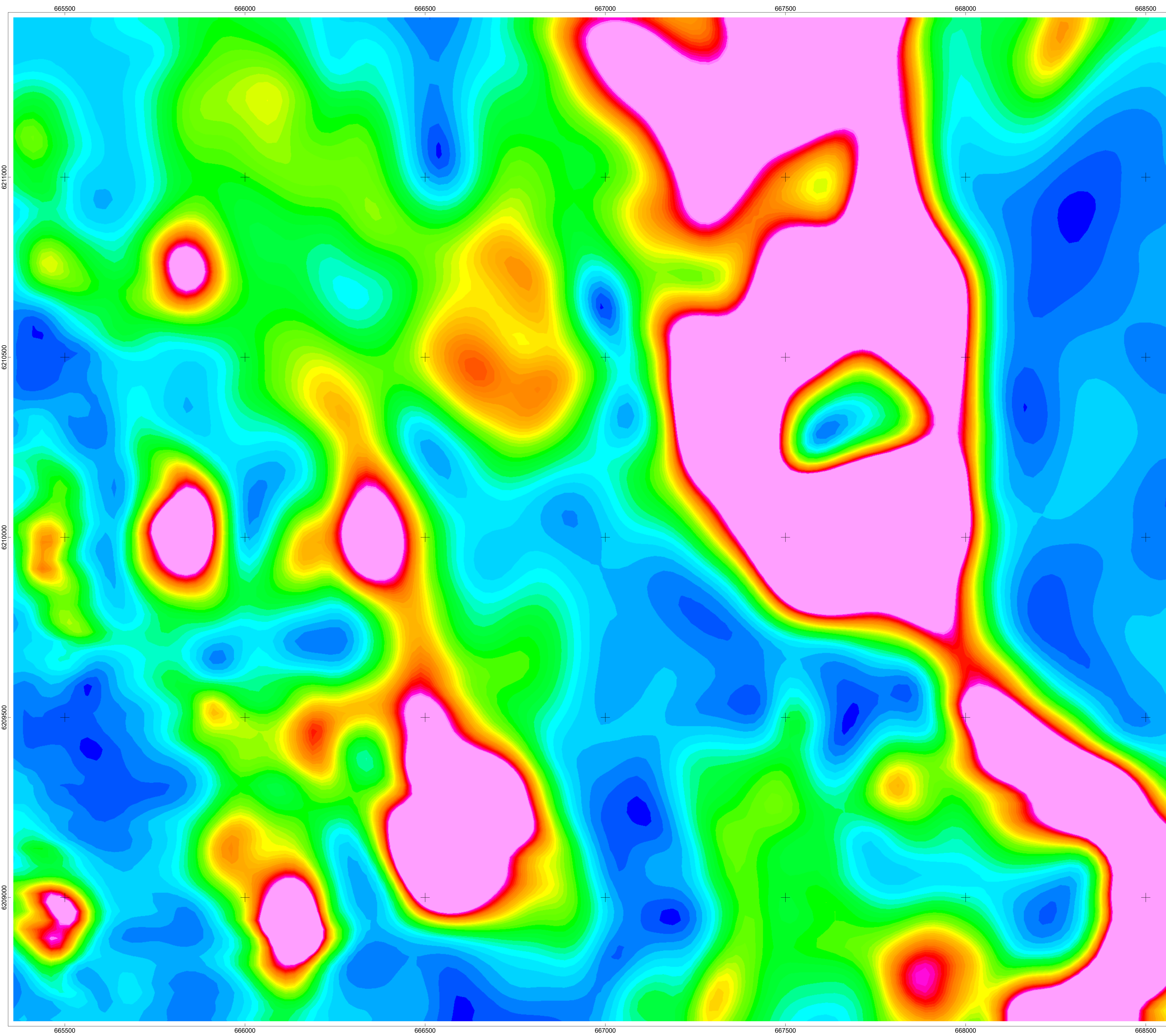
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HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>



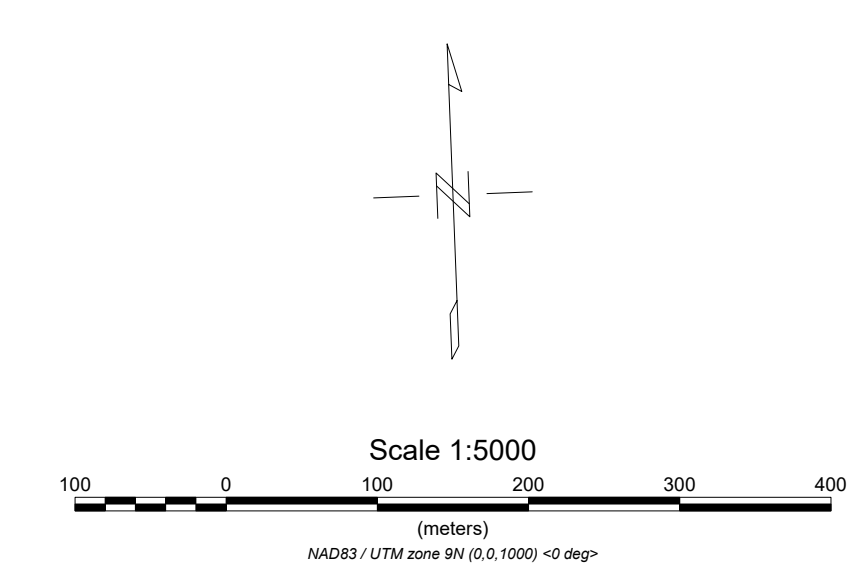
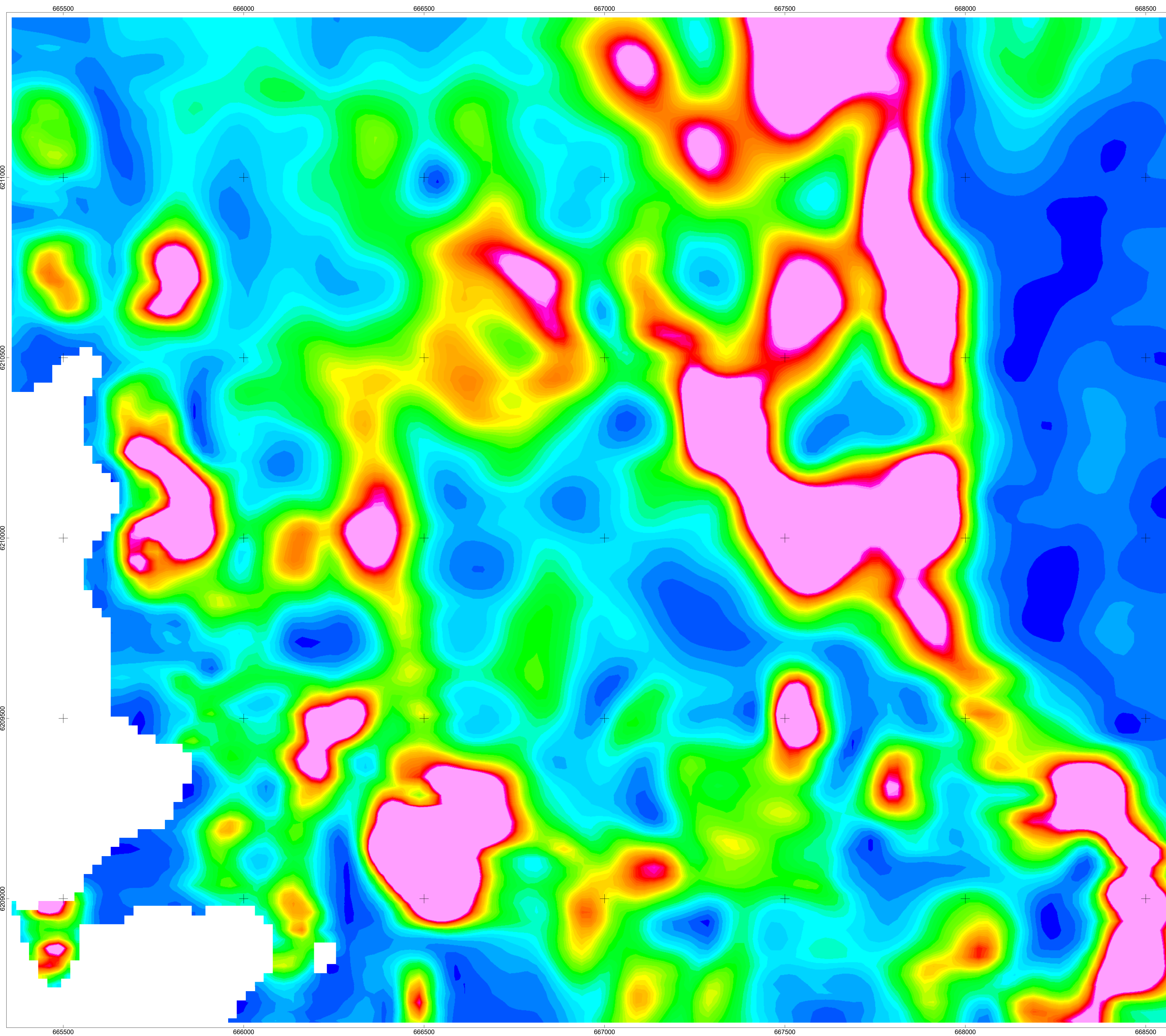
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HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>



<b>ALEXANDER WALCOTT</b>
<b>AIRBORNE MAGNETIC SURVEY</b> <b>CONTOURS OF MAGNETIC AMPLITUDE</b> <b>DEPTH 900 M</b>
HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>

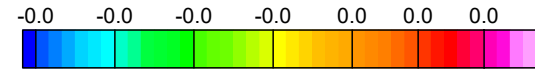
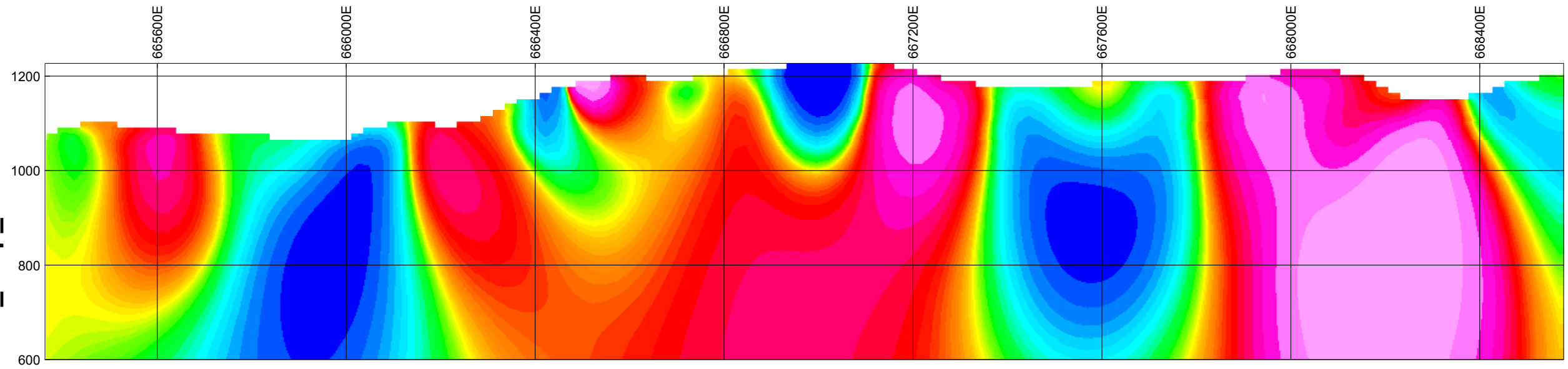


<b>ALEXANDER WALCOTT</b>
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HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>



<b>ALEXANDER WALCOTT</b>
<b>AIRBORNE MAGNETIC SURVEY CONTOURS OF MAGNETIC AMPLITUDE DEPTH 1100 M</b>
HENRY LEE CREEK PROJECT KAZA LAKE AREA SUMMER 2018
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>

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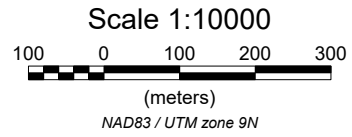
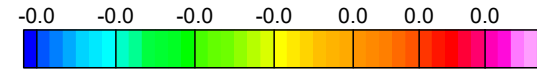
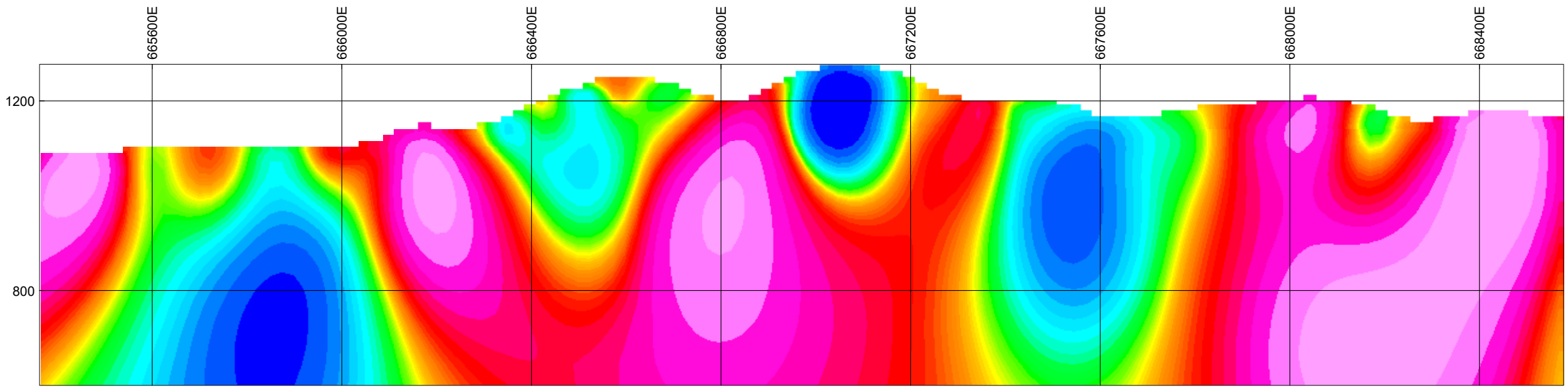


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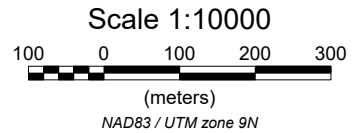
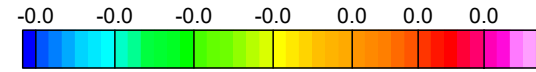
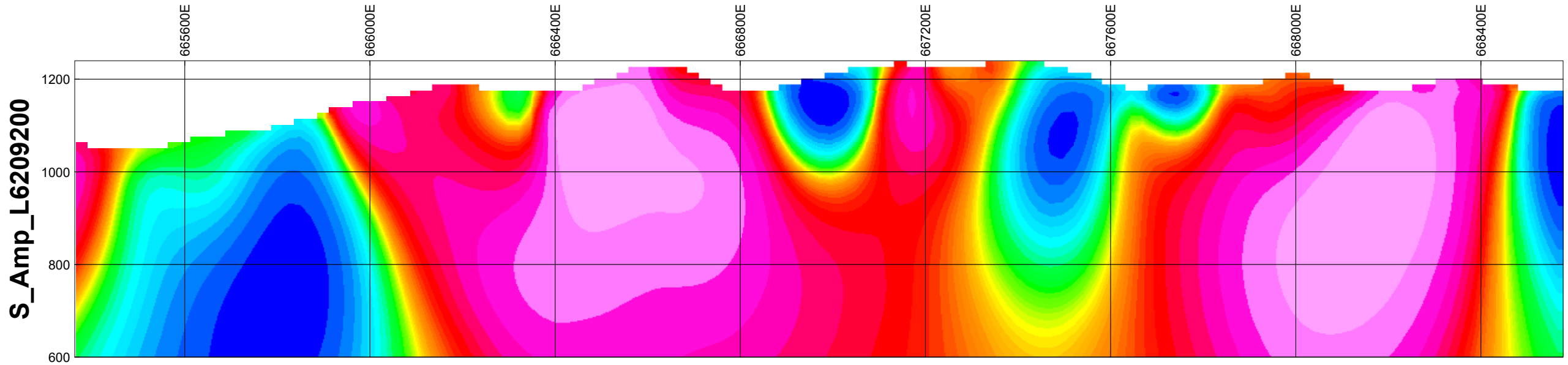
**Alexander Walcott**  
**Henry Lee Creek Property**

S\_Amp\_L6209000



Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

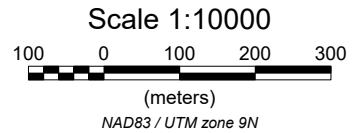
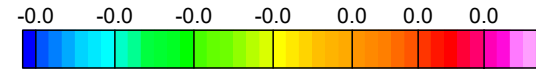
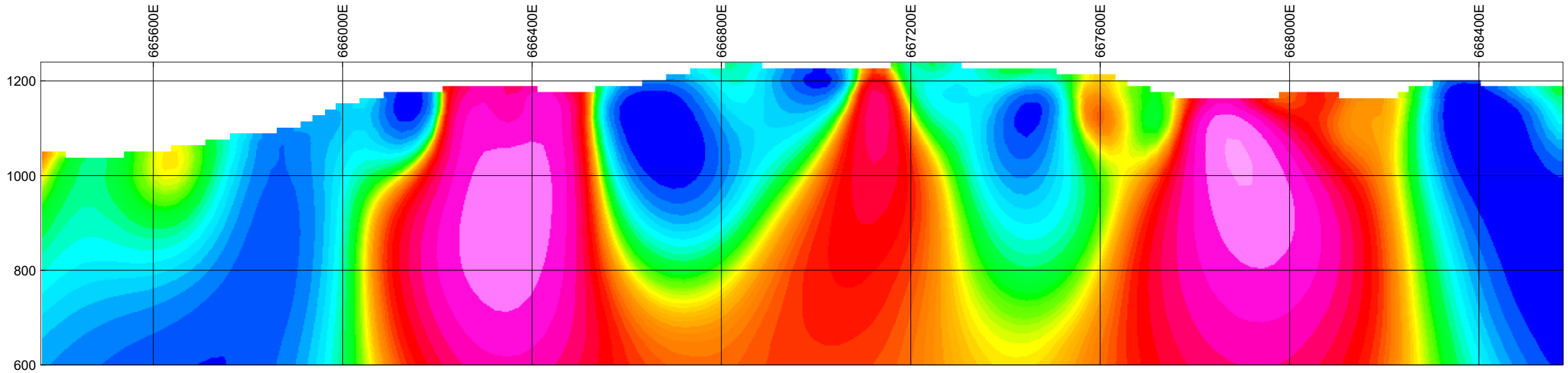


Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**



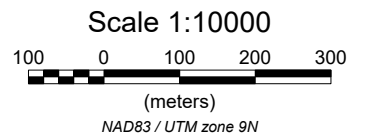
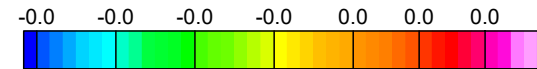
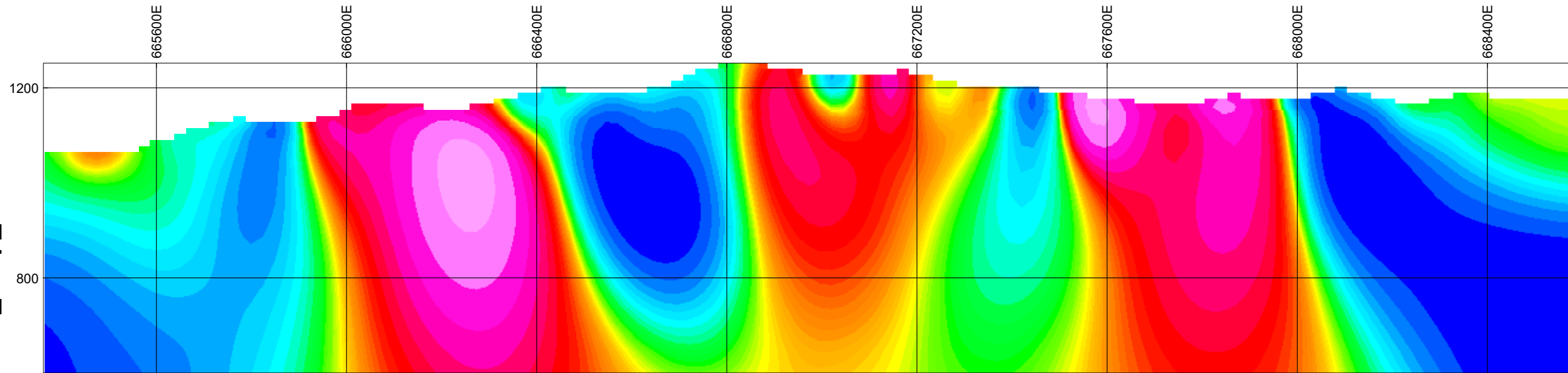
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Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

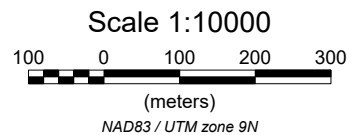
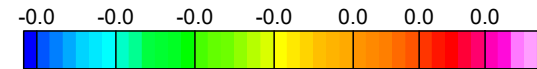
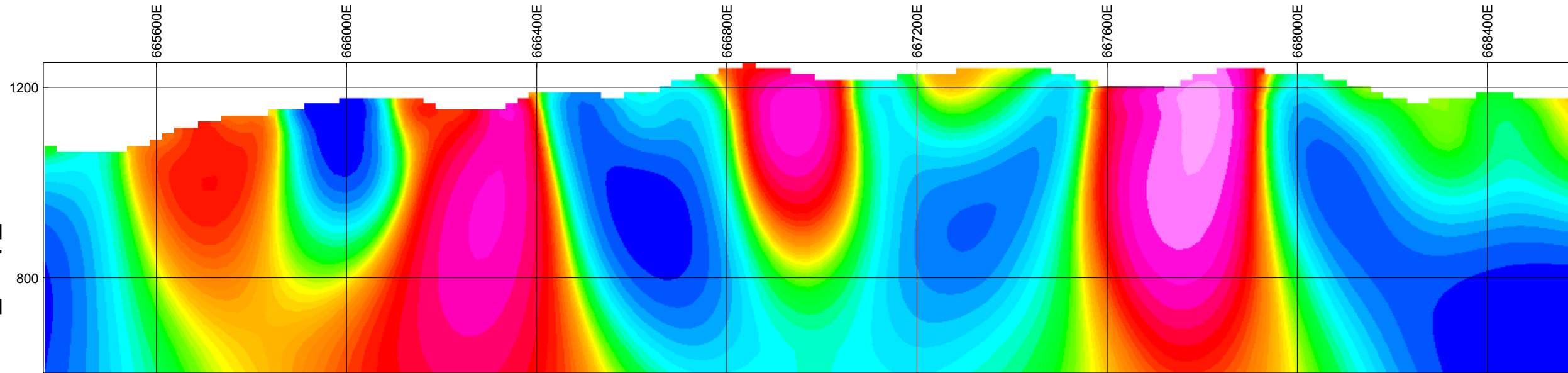
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Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

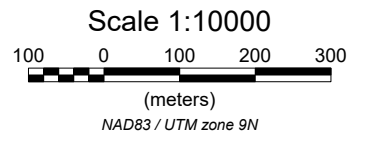
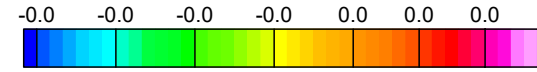
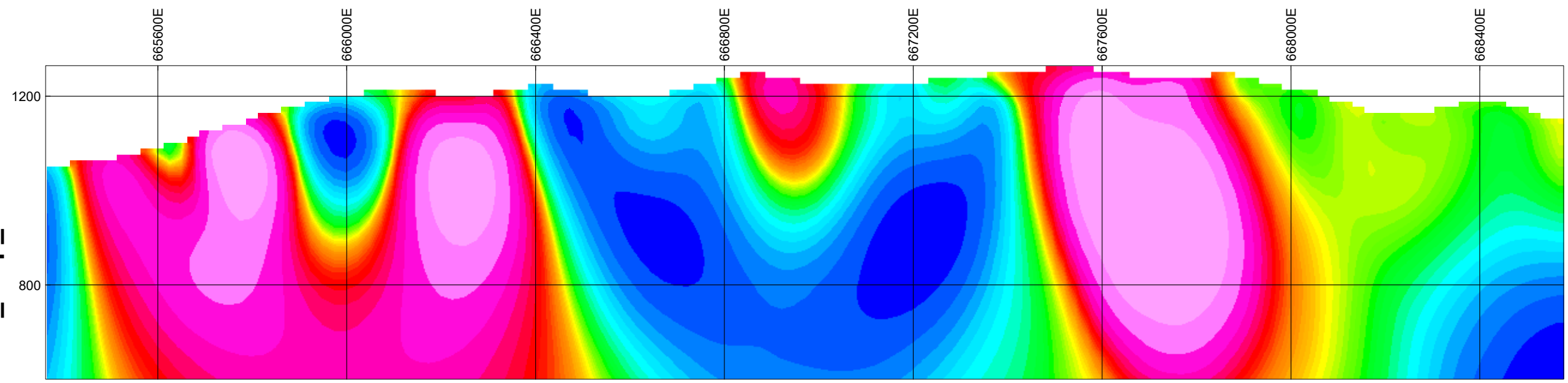
S\_Amp\_L6209800



Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

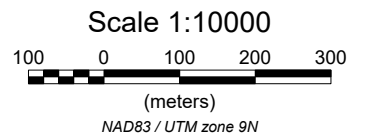
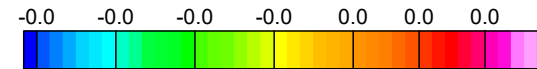
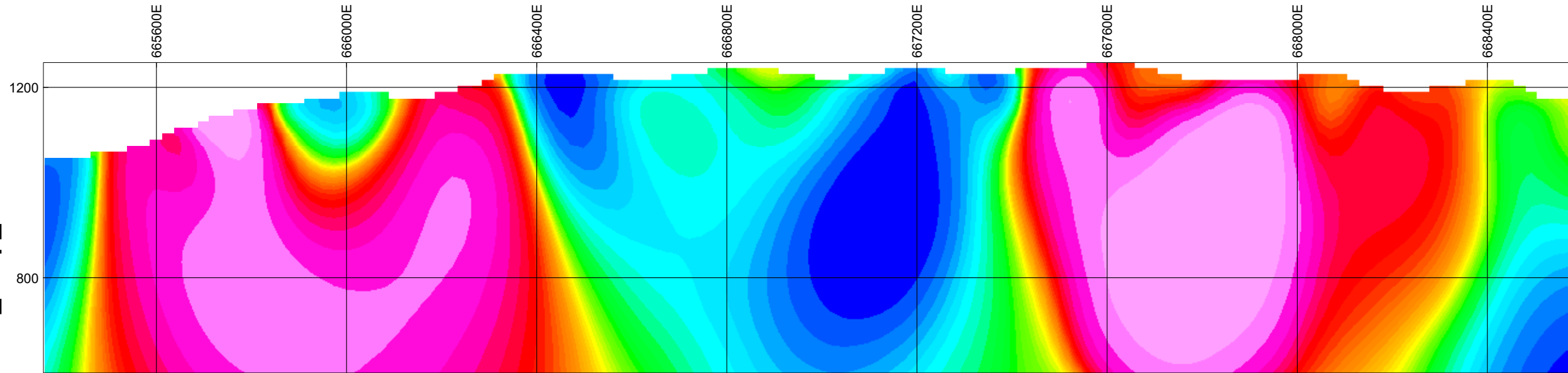
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Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

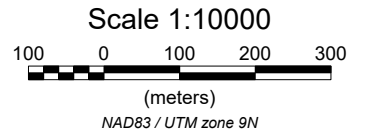
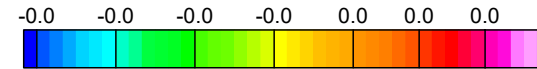
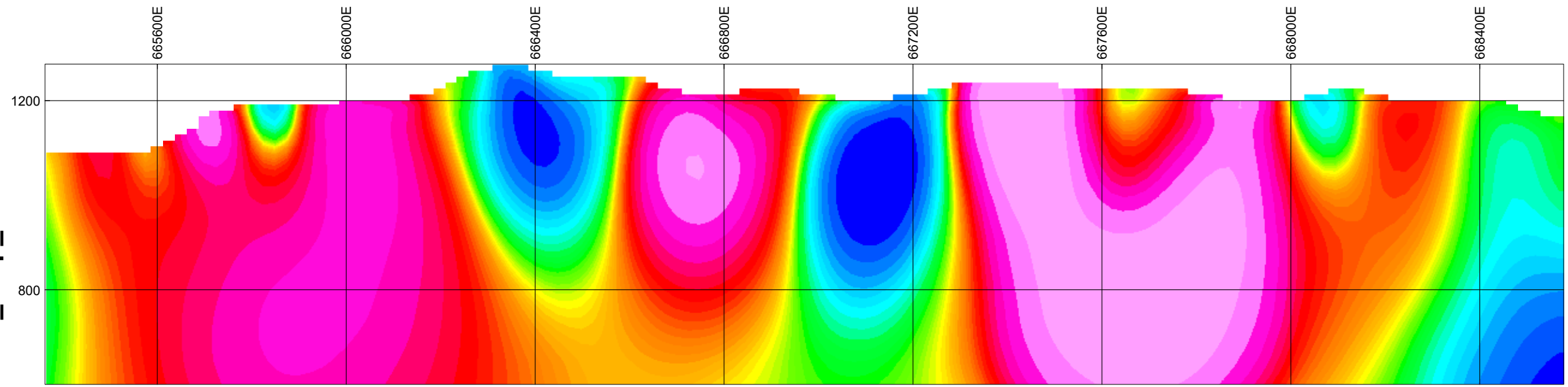
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Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

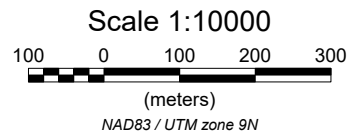
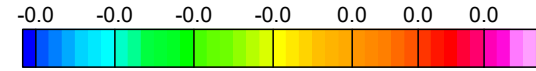
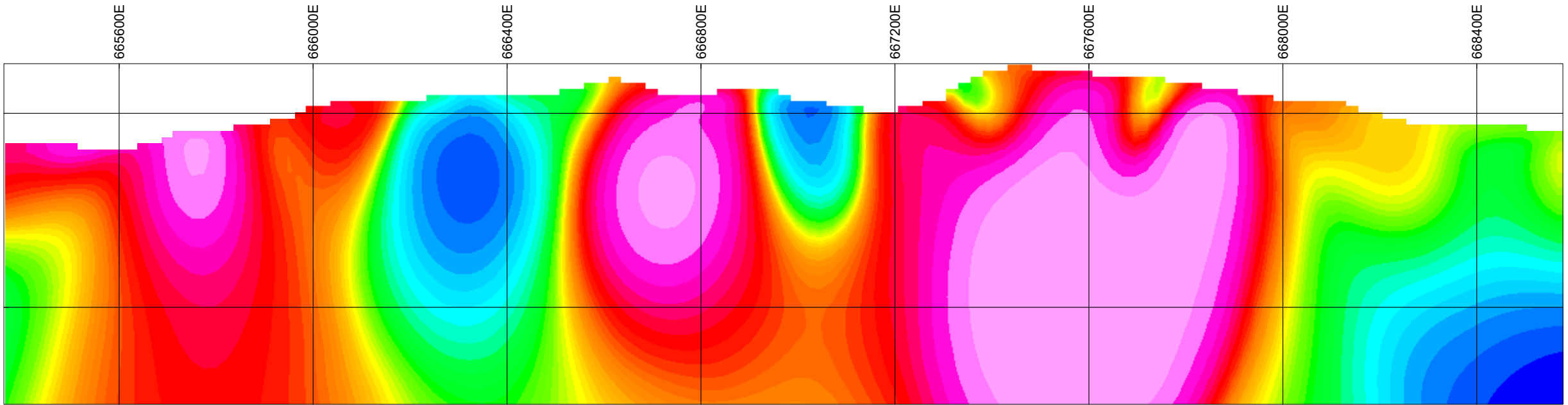
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Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

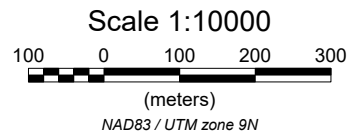
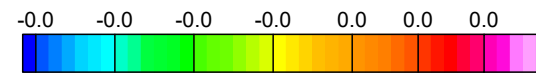
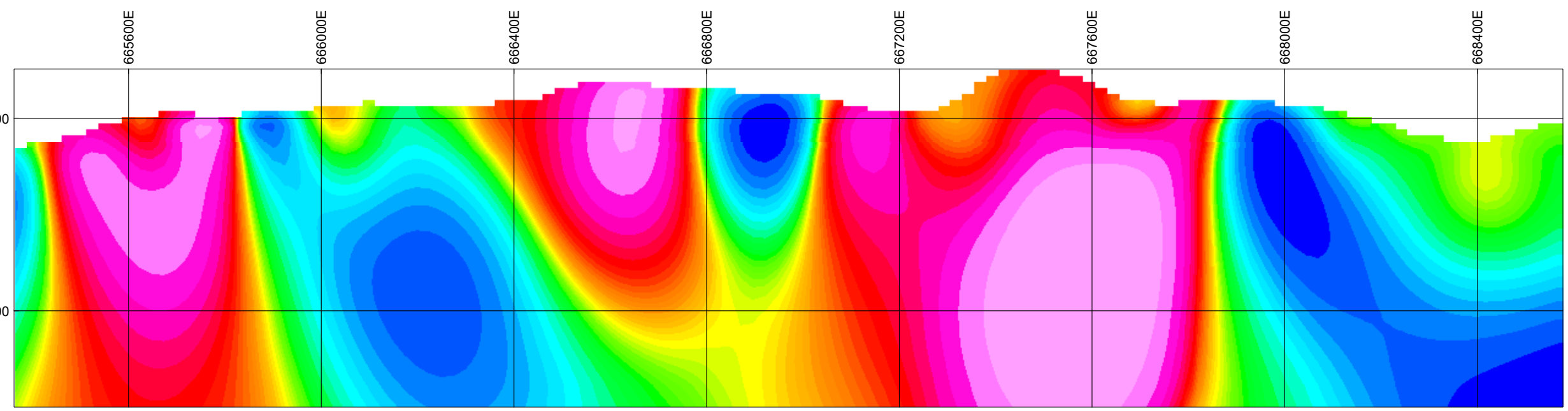
S\_Amp\_L6210600



Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**

S\_Amp\_L6210800



Vertical Exaggeration: 1

**Alexander Walcott**  
**Henry Lee Creek Property**