

Assessment Report
HELICOPTER MAGNETIC AND RADIOMETRIC SURVEY
for
LOGAN RESOURCES LTD.

on the
ENGLISHMAN PROJECT
Limey Claims, Wolf River Area, Y.T.
Watson Lake Mining District
MAPSHEET 105C09
Latitude 60° 32' 00", Longitude 132° 6' 00"

Survey Conducted by
Donegal Developments Ltd.
September 6, 2007

Report by
Ronald F. Sheldrake,
Donegal Developments Ltd.

October 30, 2007

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MAP 8 – Radiometric Potassium Count Map	1:20,000
MAP 9 – Radiometric Ternary Map (Th/U/K)	1:20,000
MAP 10 – Interpretation Map	1:20,000

LIST OF FILES ON THE CD – LIMEY CLAIMS PROJECT

FILE NAME	DESCRIPTION
Maps 1 to 10	PDF files
Final Mag.gdb	Geosoft Data File
Final Spec.gdb	Geosoft Data File
Format for Mag and Spec.txt	Text file
Geosoft Map viewer	Zip file

1. SUMMARY

This report provides information about the acquisition, processing, and presentation of the radiometric and magnetic survey data that was collected over the Limey claims that are located near Wolf River in the Yukon Territories. The survey crew was based in Teslin and was able to complete the survey in one flight.



Illustration 1: 500D Geophysical System

A Helicopter Radiometric and Magnetometer program was undertaken by Donegal Developments Ltd of Vancouver, B.C. on behalf of Logan Resources Ltd. The survey block comprised 79 km and the survey was flown September 6, 2007.

This geophysical report may later form part of a more comprehensive one that will cover the details of geology, geochemistry, drill results and exploration history of the property.

2. LOCATION OF SURVEY

The Limey Claims are located near Wolf River 55 km NE of Teslin, YT and are accessible only by helicopter.

E-W traverses were selected to test the radiometric and magnetic responses to potential

mineralization anticipated to be on the claims.

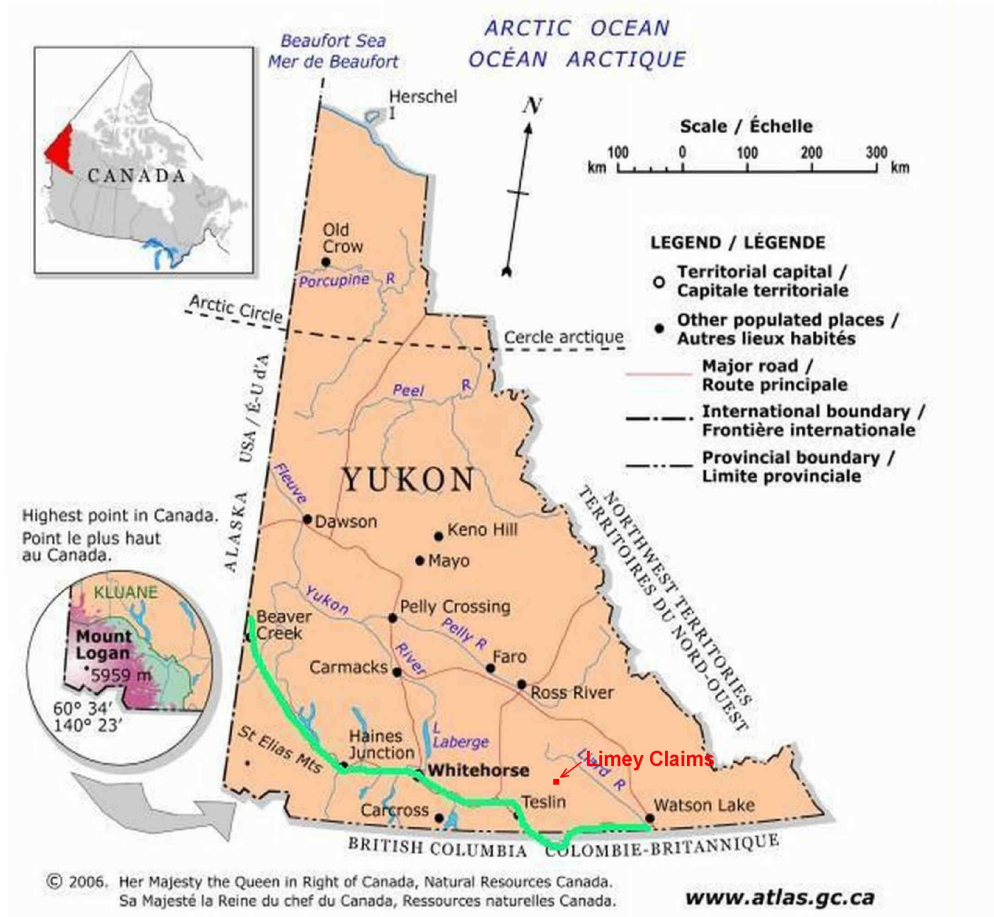


Illustration 2: Location of Limey Claims Survey Grid

Survey Grid, Procedure and Personnel

3.1 Survey Grid

The Limey Claims survey grid comprised of 24 survey lines at 100 meter line interval and 6 tie lines at 500 m interval.

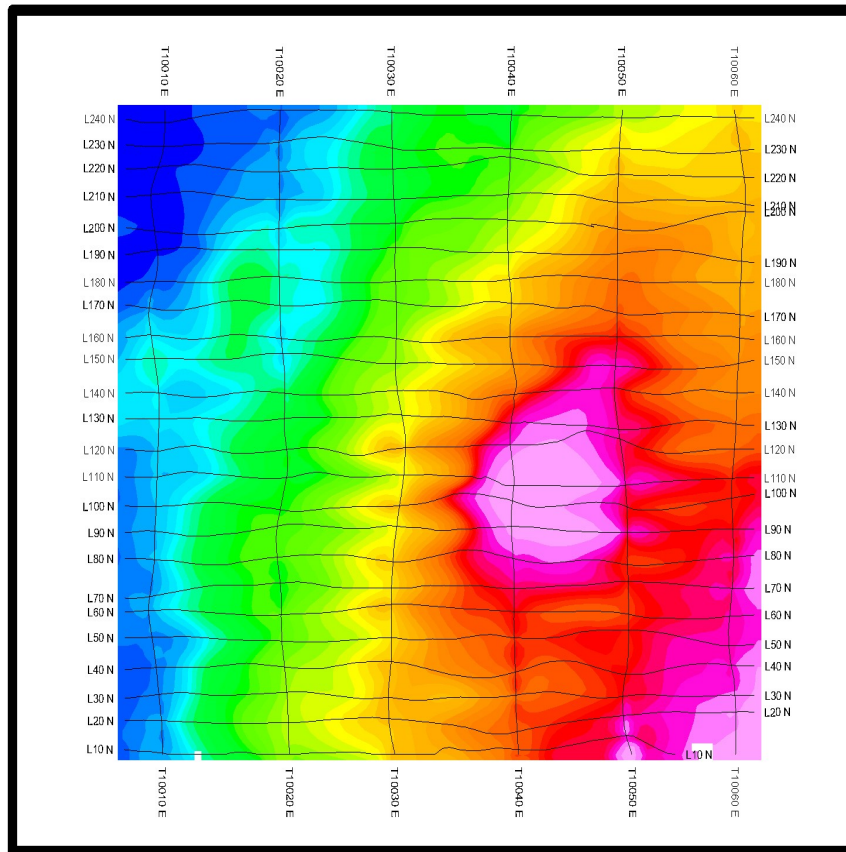


Illustration 3: Survey Lines shown on Topographic Image

3.2 Magnetic Surveying Procedure

Magnetic measurements in a helicopter or fixed wing aircraft are recorded (to an accuracy of 1/10 of a nanotesla- abbreviated “nT”) as the aircraft is flying along a pre-determined flight path, normally an orthogonal survey grid of lines and tie lines. At the same time, a second magnetometer, the magnetic base-station, is located in a magnetically quiet area (no vehicles or powerlines, etc.) that records the “magnetic diurnal,” which is the varying magnetic field as a function of time. It is beneficial to have the base station in, or near, the survey area, but that is often not practicable. The magnetic measurements were made at an interval of 1/25 per second, so that on average, the reading interval on the ground were less than 1.0 meter.

The data are processed by subtracting the magnetic diurnal variation from the airborne data. The magnetic data are also further improved by correcting the data using the tie-line data intersection points to produce a smooth, internally corrected map. However, maps may still be slightly noisy and, further micro-leveling correction may be made after the data has been gridded. This process removes small noise variations along the traverses that may arise between the tie lines.

3.3 Radiometric Surveying Procedure

Radiometric surveying is a complex procedure, normally done in two stages. The data is collected (with various calibration information) and processed in the field in a preliminary fashion. The field processing involves checking the validity of all the data and making preliminary maps. At this stage, the radiometric data are mapped in units of counts per second (cps). (The radiometric measurements were made at an interval of 1.0 seconds, so that on average, the readings on the ground were less than 30.0 meters.)

The final processing involves merging the calibration information with the preliminary data to produce radiometric units in concentrations of potassium, uranium and thorium. (This processing has not as yet been completed on the present data.)

The corrections include applying sensor stripping ratios, altitude attenuation coefficients, temperature and pressure corrections, radon contamination corrections, aircraft and skyshine factors. These corrections are described in the International Atomic Energy Agency document IAEA-IECDOC-1363 ***“Guidelines for Radioelement Mapping using Gamma Ray Spectrometry Data,”*** July 2003

3.4 Survey Personnel

The Donegal Developments Ltd. crew for this survey comprised:

1. Ron Sheldrake, geophysicist and project manager
2. Mary Sheldrake, data person

3. Lawrence Jay, electrical engineer and equipment operator.

The Prism Helicopter Ltd. crew for this survey comprised:

4. Loren Leeuw, pilot
5. Min Jung Suh, aircraft engineer

4. EQUIPMENT USED FOR THIS SURVEY

The equipment used for this survey was a new radiometric and magnetic system provided by PicoEnvirotec of Downsview, Ontario. It was specifically configured for the 500D helicopter installation and included the following equipment:

- A Scintrex CS-3 high-sensitivity Cesium magnetometer mounted in a cantilevered “stinger”
- A Billingsly TFM-100 Tri-axial Fluxgate Magnetometer
- A Pico-Envirotec GRS-10 self-stabilizing 256 channel gamma-ray spectrometer with 16.8 litres “downward looking” NaI(Tl) sensors and 4.2 litres of “upward looking” NaI(Tl) sensor.
- A CSI-Wireless Omnistar navigation system with a pilot steering indicator
- A Pico-Envirotech AGIS Data Acquisition System
- A Terra TRA-3000/TRI-30 Radar Altimeter.
- Campbell Scientific Model-CS500 Temperature and Relative Humidity Probe
- A SETRA Model 276 digital barometric altimeter/pressure transducer.
- Power distribution console with power supplies.

The magnetic base station equipment included:

- A PGIS (PicoEnvirotec) basestation processor
- Scintrex Cesium CS-3 Magnetometer

Details and specifications of the above equipment are provided on the PicoEnvirotec website, www.picoenvirotec.com.

5. GEOPHYSICAL TECHNIQUES

5.1 Magnetic Method

Magnetometer data are used to identify rock types, faults, and alteration zones. Much of the time, the magnetic responses arise from the minerals magnetite and pyrrhotite, and although ilmenite, chromite, and platinum and other minerals are magnetic, they are much less so.

Magnetic maps provide a picture of the distribution of magnetic materials in the subsurface rocks. In general, localized magnetic responses (sometimes they are called “anomalies”) that arise from the surface and near surface distributions of magnetic materials, are of shorter wavelength than those that arise from deeper seated sources.

Occasionally, magnetic responses right away lead to the detection of commercial orebodies, although this is rare. For example, a massive sulphide ore-body might contain pyrrhotite as one of its constituent minerals, and the magnetic maps will therefore identify and “outline” the orebody. However, there is a whole spectrum of magnetic responses that can arise due to mechanical, metamorphic and geochemical changes in rocks

Sometimes, the challenge can be more sophisticated, since mineralization may be related to non-magnetic rocks, therefore the magnetic parameter is sometimes used in its negative aspects; a search for magnetic depletion zones.

5.2 Radiometric Method

Gamma-ray spectrometer surveys are utilized for mapping the concentration and distribution of naturally occurring radioelements. The use of an airborne gamma-ray spectrometer allows for the in-situ analysis of radioelement concentrations of naturally occurring Potassium (K), Uranium (U) and Thorium (Th).

The concentrations of K, U, and Th can be diagnostic in the mapping of rocks and soils. In the exploration for uranium, gold, copper, tin and tungsten, mineralization is often related to K alteration so that radiometric data provide a vital exploration tool.

Radioactivity measurements from an airborne platform are dependent upon the detection of gamma rays produced through radioactive decay of the nuclide to be detected. Radiometric data are fundamentally statistical. The primary field data is collected in units of counts per second

(cps) and a wide range of corrections are normally made to convert the count per second (cps) units to “equivalent concentrations” of the three radio nuclides, K, U, and Th. Data adjustments include applying stripping ratios, altitude attenuation coefficients, temperature and pressure effects, radon contamination correction, aircraft and skyshine factors. These alterations to the data are described in the International Atomic Energy Agency document “***Guidelines for Radioelement Mapping using Gamma Ray Spectrometry Data.***’

The radiometric data presented in this report are, at this stage, uncorrected for the above factors. As a result some radon contamination can be seen on the Radiometric Count Maps.

Also, R.B.K. Shives et al (1997) provide a comprehensive discussion of the potential of radiometric surveying for a wide range of deposits in “***The detection of Potassic Alteration by Gamma Ray Spectrometry – Recognition Related to Mineralization,***” published in *Exploration* 97.

6. DATA PRESENTATION

These days many geoscientists find that computer images are most convenient for their interpretations since other GIS information can be viewed simultaneously. However, paper map-images remain an important part of the deliverables. The present survey data are presented as both digital data and colour image-maps. Note that all maps, grids and data are located using coordinate system **NAD83 Zone 8N**. All digital data are provided in Geosoft format on the CD/DVD that comes with this report.

6.1 Image Map Deliverables

1. Total Magnetic Intensity Map (TMI)
2. Reduced to Pole Magnetic Map
3. Reduced to Pole Shaded Map
4. GPS Sensor Height Map
5. Radiometric Total Count Map
6. Radiometric Thorium Count Map
7. Radiometric Uranium Count Map

8. Radiometric Potassium CountMap
9. Radiometric Ternary Map (Th, U, K)
10. Interpretation Map

6.2 *Digital Data Deliverables*

PDF versions of maps and processed digital data (in Geosoft format) are provided. A full description of the formats are included as a text file on the CD/DVD that comes with this report.

7. *DISCUSSION OF THE SURVEY DATA*

7.1 *Magnetic and Radiometric Data*

An interpretation of the magnetic and radiometric data are presented on Map 10 , Interpretation Map. The survey data indicates only a loose correlation between the magnetic and radiometric responses, and no anomalous responses are indicated.

Respectfully submitted,.

Donegal Developments Ltd.

Ronald F. Sheldrake, B.Sc. (Geophysics)

BIBLIOGRAPHY

1. R.B.K. Shives, B.W. Charbonneau, Ken L. Ford, ***“The detection of Potassic Alteration by Gamma Ray Spectrometry – Recognition Related to Mineralization,”*** published in **Exploration 97 - Geophysics and Geochemistry at the Millenium, 1997**
2. **Regional GSC 2 km Aeromagnetic Data, NRCN**
3. **International Atomic Energy Agency document “*Guidelines for Radioelement Mapping using Gamma Ray Spectrometry Data.*”**

APPENDIX 1 – STATEMENT OF QUALIFICATIONS, R. SHELDRAKE

I, **Ronald F. Sheldrake**, do certify that:

1) I received my B.Sc. in Geophysics from the University of British Columbia in 1974.

2) I have practised the profession of exploration geophysics for in excess of 30 years, much of that time collecting data, compiling and reporting on airborne geophysical surveys.

3) This report is written solely by Ronald F. Sheldrake, except where other credit is given.

October 30, 2007

Ronald F. Sheldrake
Donegal Developments Ltd.

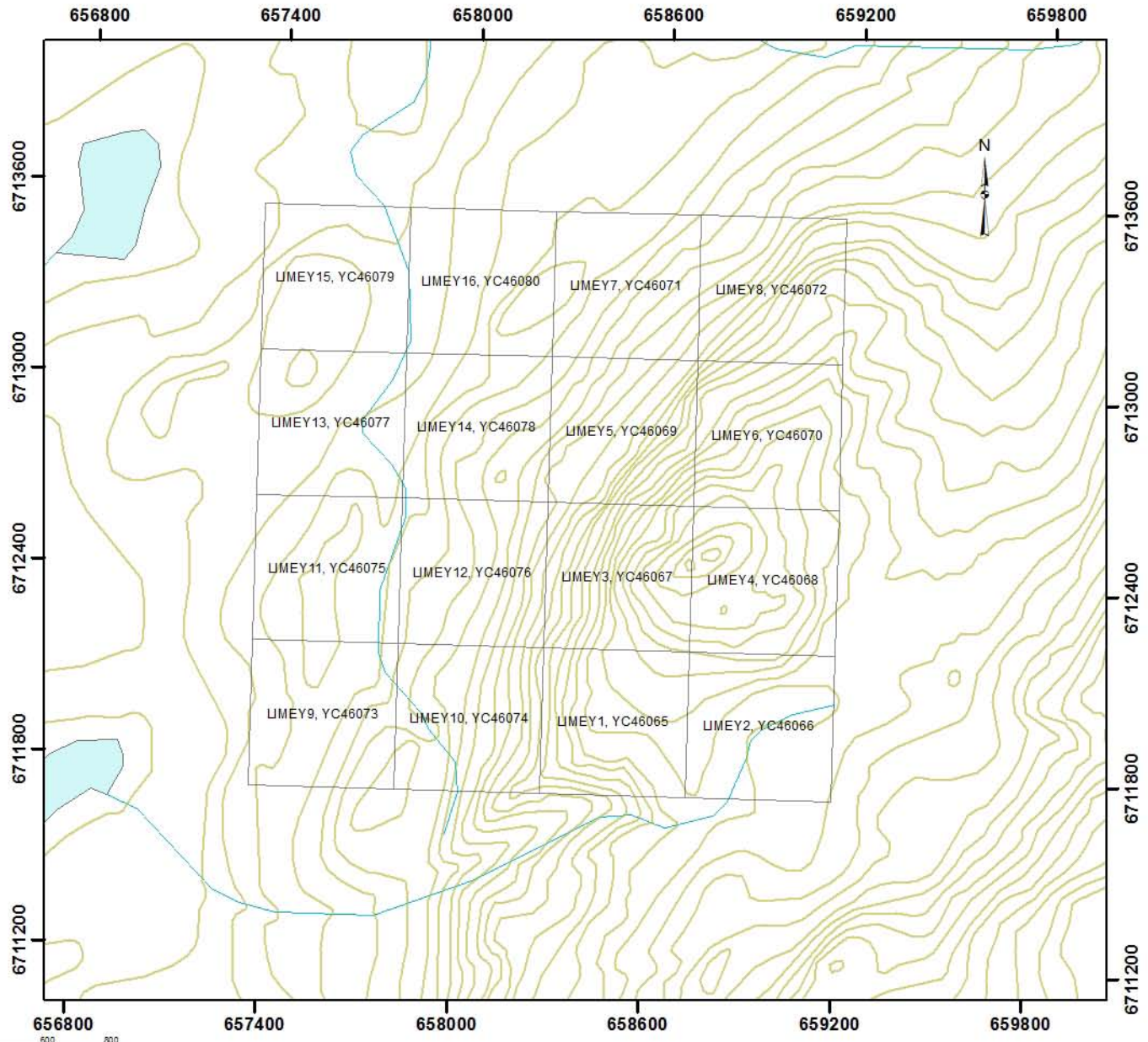
APPENDIX 2 – EXPENDITURES FOR PROJECT

	<u>Costs/Charges</u>
1) Mobilization costs (pro rated per line km),	\$ 435.00
2) Geophysical Survey costs including vehicle usage, food, lodging, helicopter and fuel (79 km X \$165.00/km),	\$ 13,035.00
3) Reporting Costs-	\$ 5,750.00
TOTAL SURVEY EXPENDITURE	\$ 19,220.00
TOTAL EXPENDITURE PER CLAIM, (16 Claims)	\$ 1,201.25

APPENDIX 3 – LISTING OF CLAIMS WITH EXPIRY DATES

Logan Resources Ltd.
Englishman Property, Watson Lake Mining District
16 Claims/ Oct 18/2007

Grant Number	Claim Name	Claim Number	Claim Owner	Recording Date	Expiry Date	NTS
YC46065	LIMEY	1	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46066	LIMEY	2	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46067	LIMEY	3	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46068	LIMEY	4	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46069	LIMEY	5	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46070	LIMEY	6	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46071	LIMEY	7	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46072	LIMEY	8	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46073	LIMEY	9	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
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YC46075	LIMEY	11	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46076	LIMEY	12	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46077	LIMEY	13	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46078	LIMEY	14	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46079	LIMEY	15	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09
YC46080	LIMEY	16	37999 YUKON INC. - 100%.	12/14/2006	12/14/2007	105C09



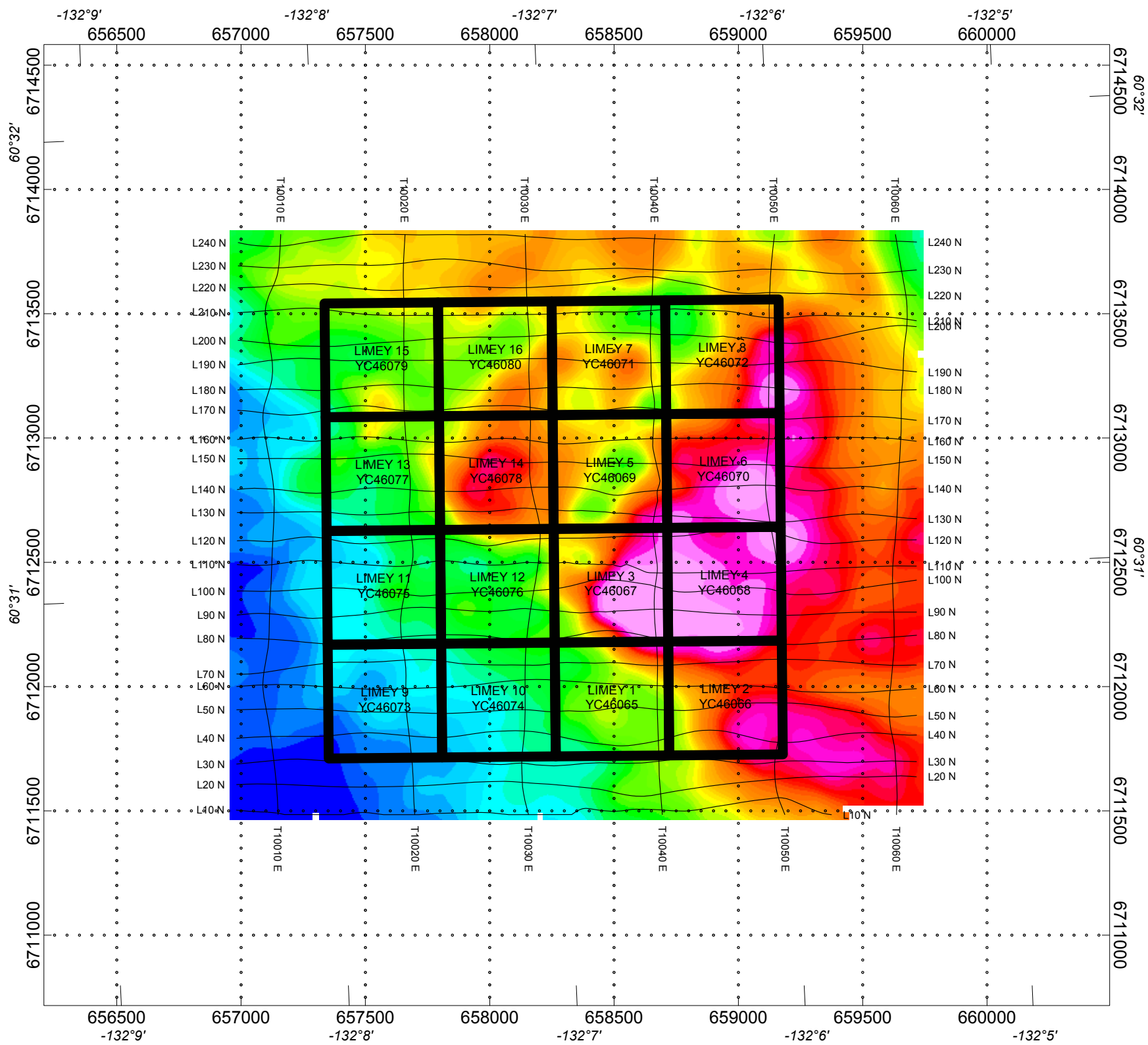
**Claim Map - Englishman Project
Limey Claims**

Limey Claims

Zone 8, Nad 83

NTS map number
105C19

Yukon Albers Projection



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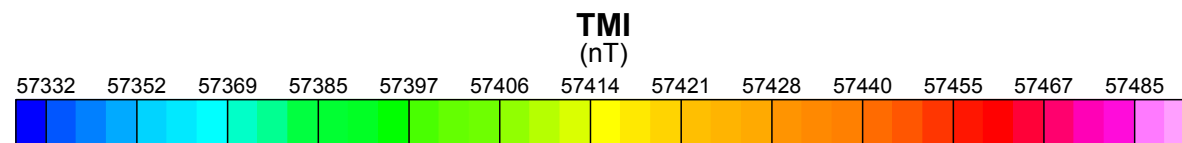
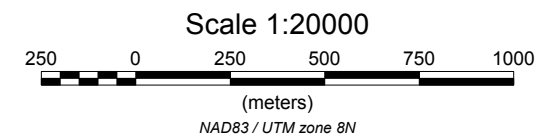
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 Radar Altimeter: TRA3000
 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

SPECIFICATIONS:

MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

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 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

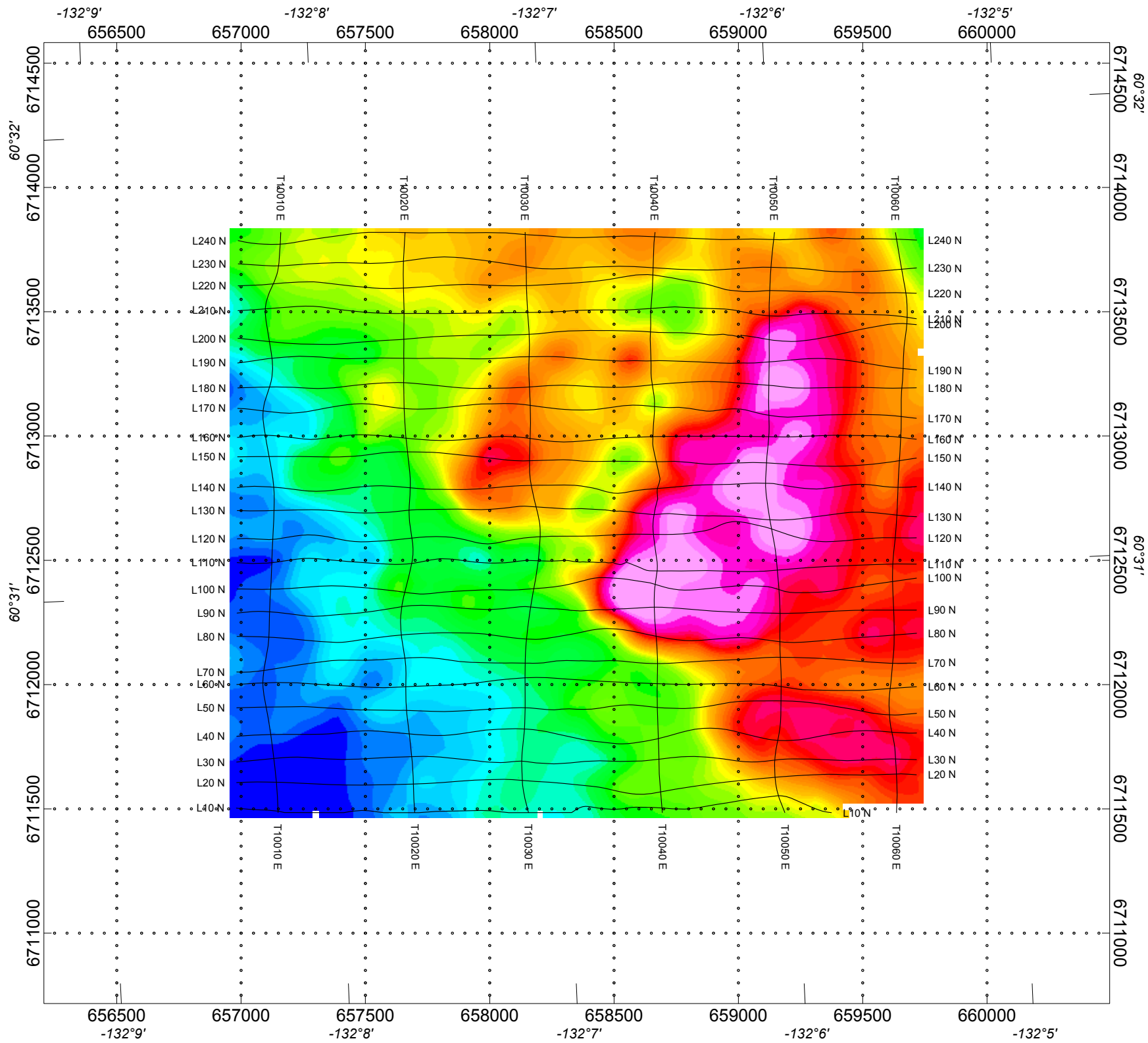


LOGAN RESOURCES LTD.

TOTAL MAGNETIC INTENSITY MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 1

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

Donegal Developments Ltd., Vancouver, B.C.



DONEGAL
DEVELOPMENTS LTD

INSTRUMENTATION:

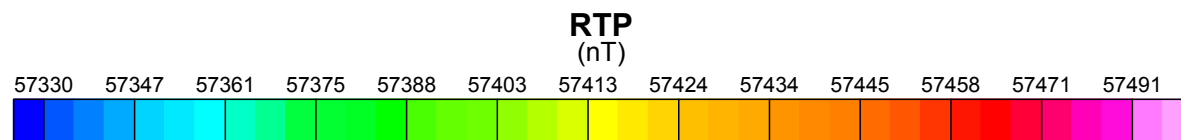
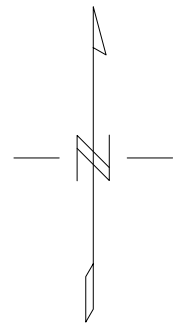
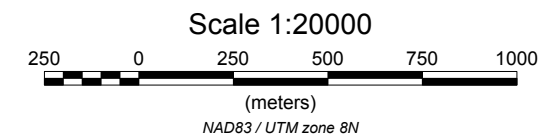
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 Magnetic Base Station: PGIS/ CS-3 Cesium

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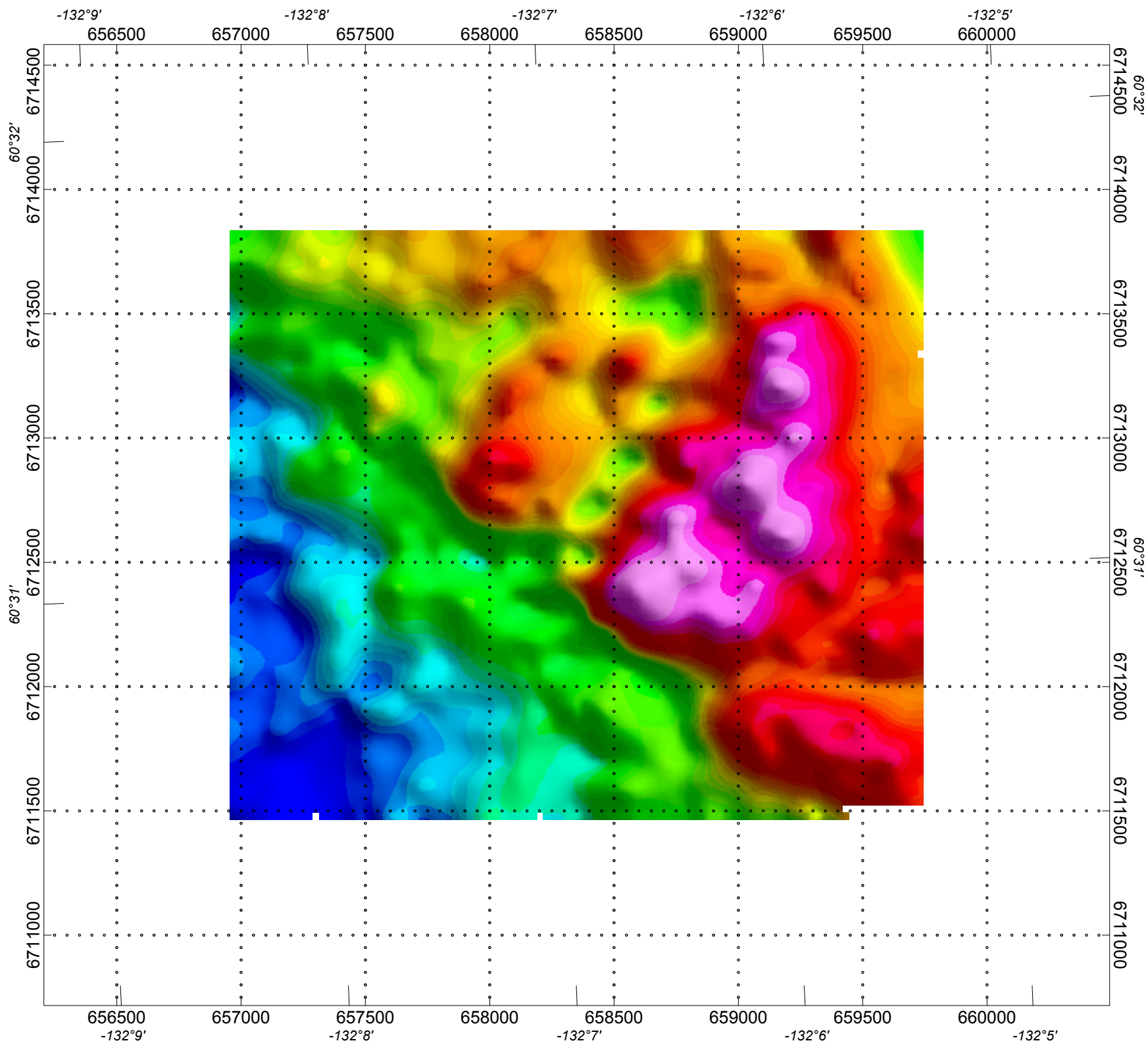
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CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling



LOGAN RESOURCES LTD.
REDUCED TO POLE MAGNETIC MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 2
 Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees
 Donegal Developments Ltd., Vancouver, B.C.



DONEGAL
DEVELOPMENTS LTD

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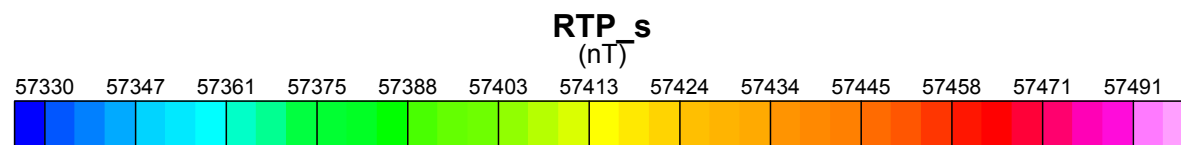
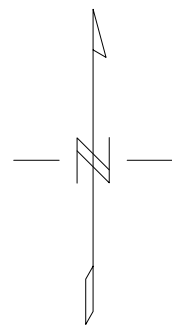
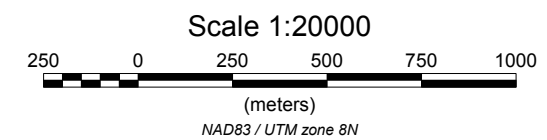
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 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

SPECIFICATIONS:

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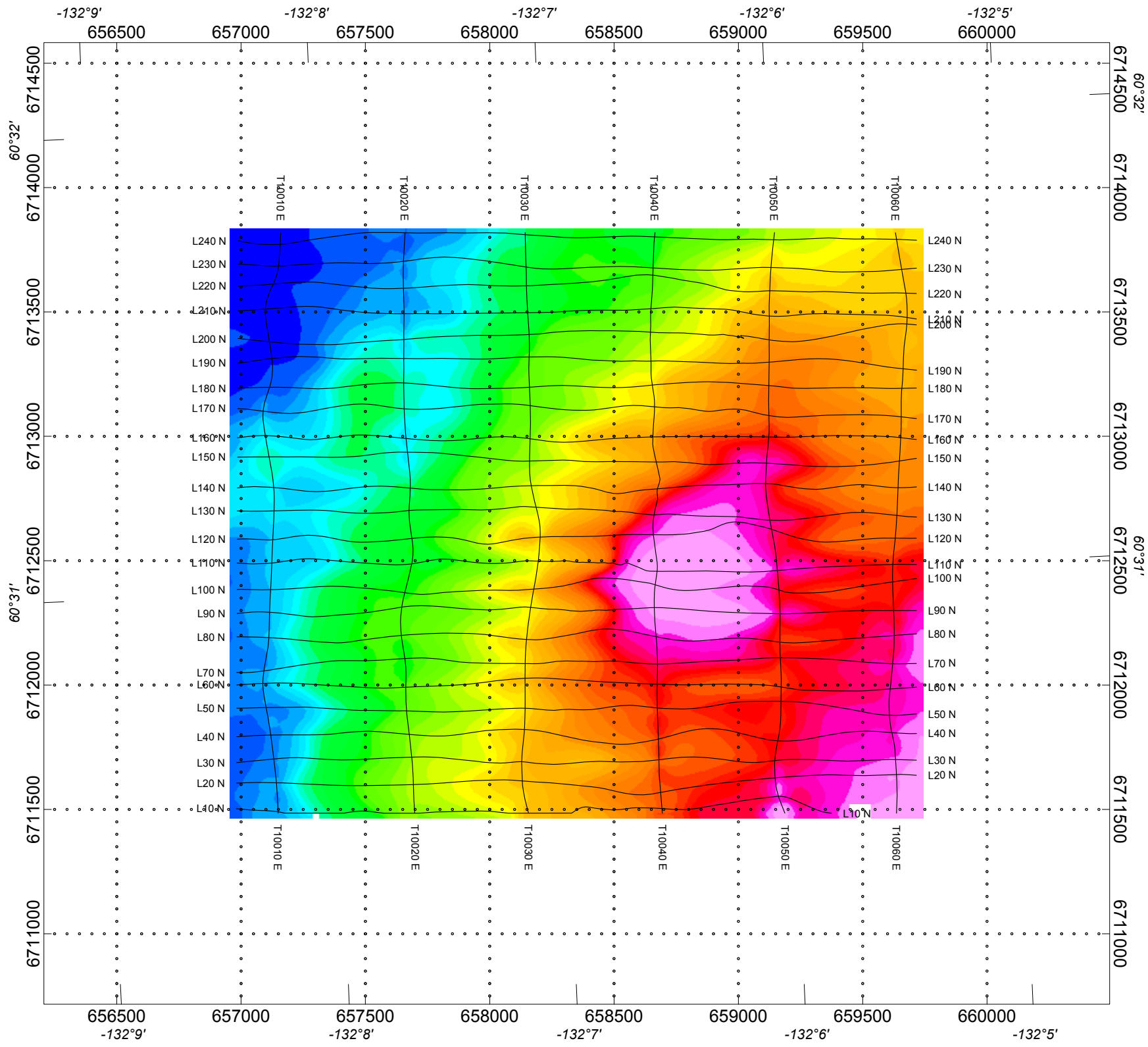


LOGAN RESOURCES LTD.

REDUCED TO POLE SHADED MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 3

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

Donegal Developments Ltd., Vancouver, B.C.



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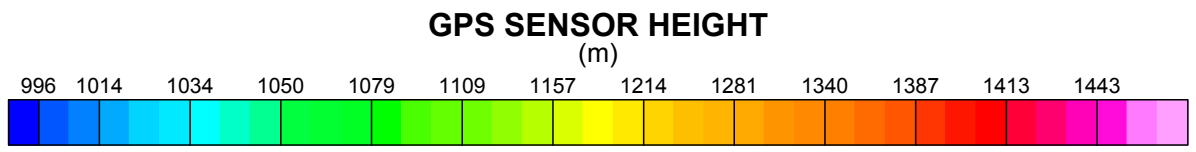
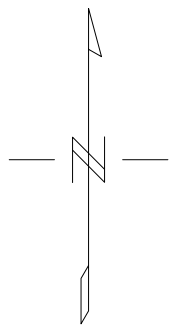
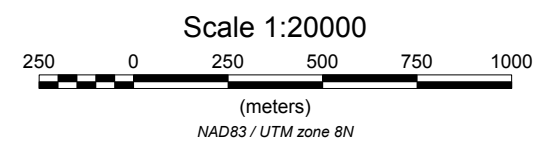
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 Magnetic Base Station: PGIS/ CS-3 Cesium

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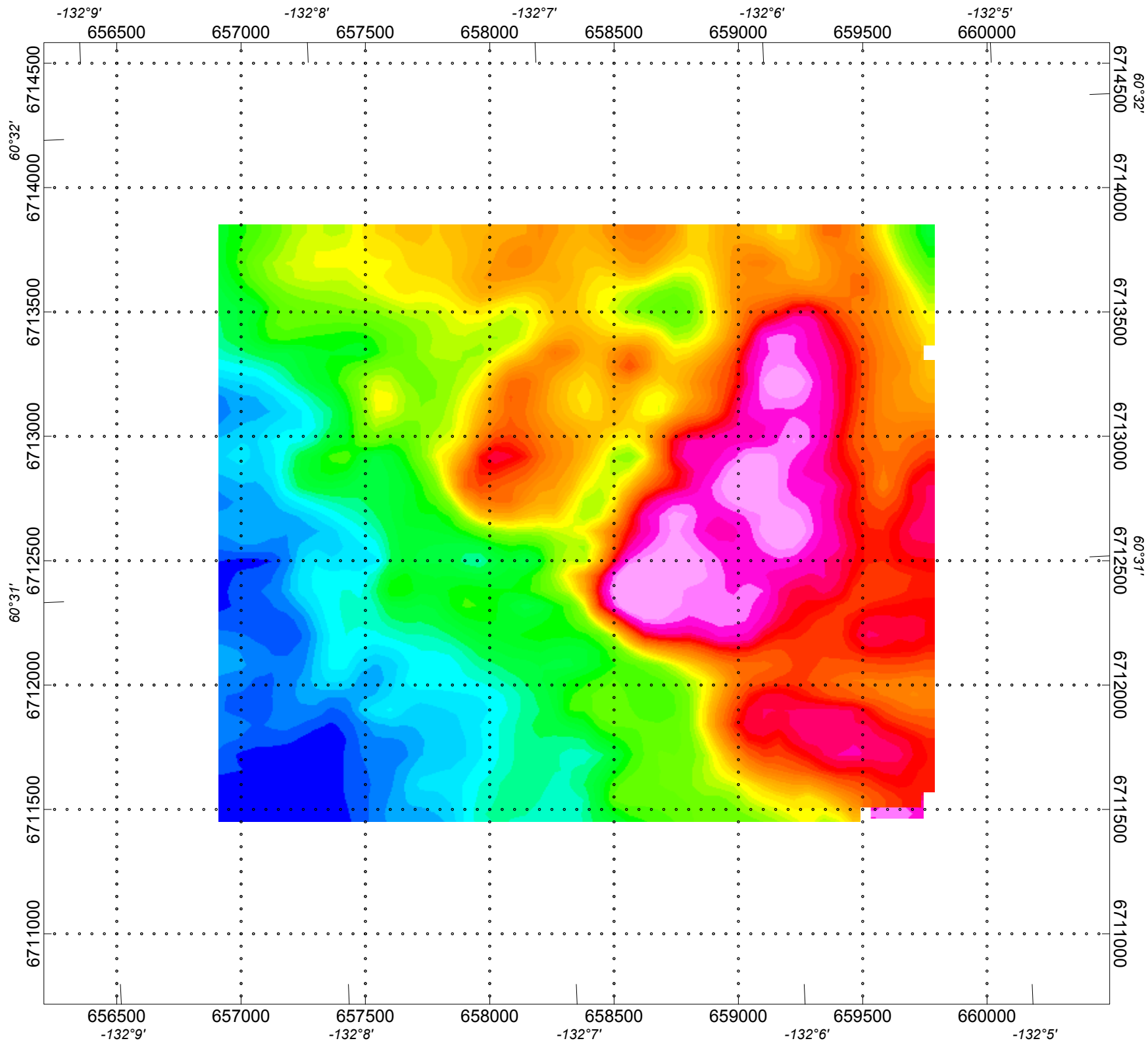
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 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling



LOGAN RESOURCES LTD.
GPS SENSOR HEIGHT MAP Limey Claims, Englishman Range Area, Y.T. MAP 4
Magnetic Declination: 23.6 degrees E. Magnetic Inclination: 75.8 degrees
<i>Donegal Developments Ltd., Vancouver, B.C.</i>



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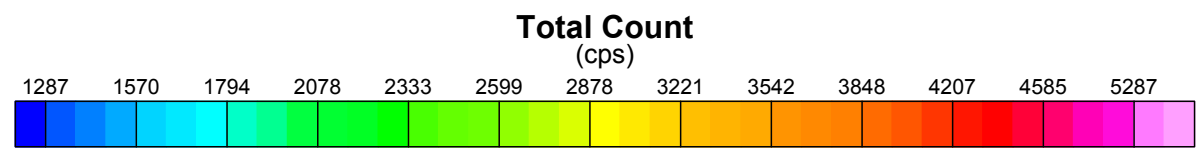
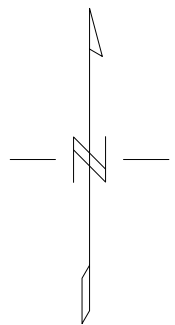
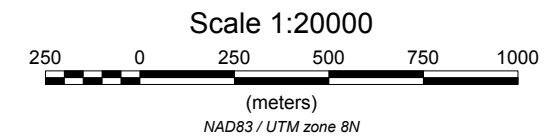
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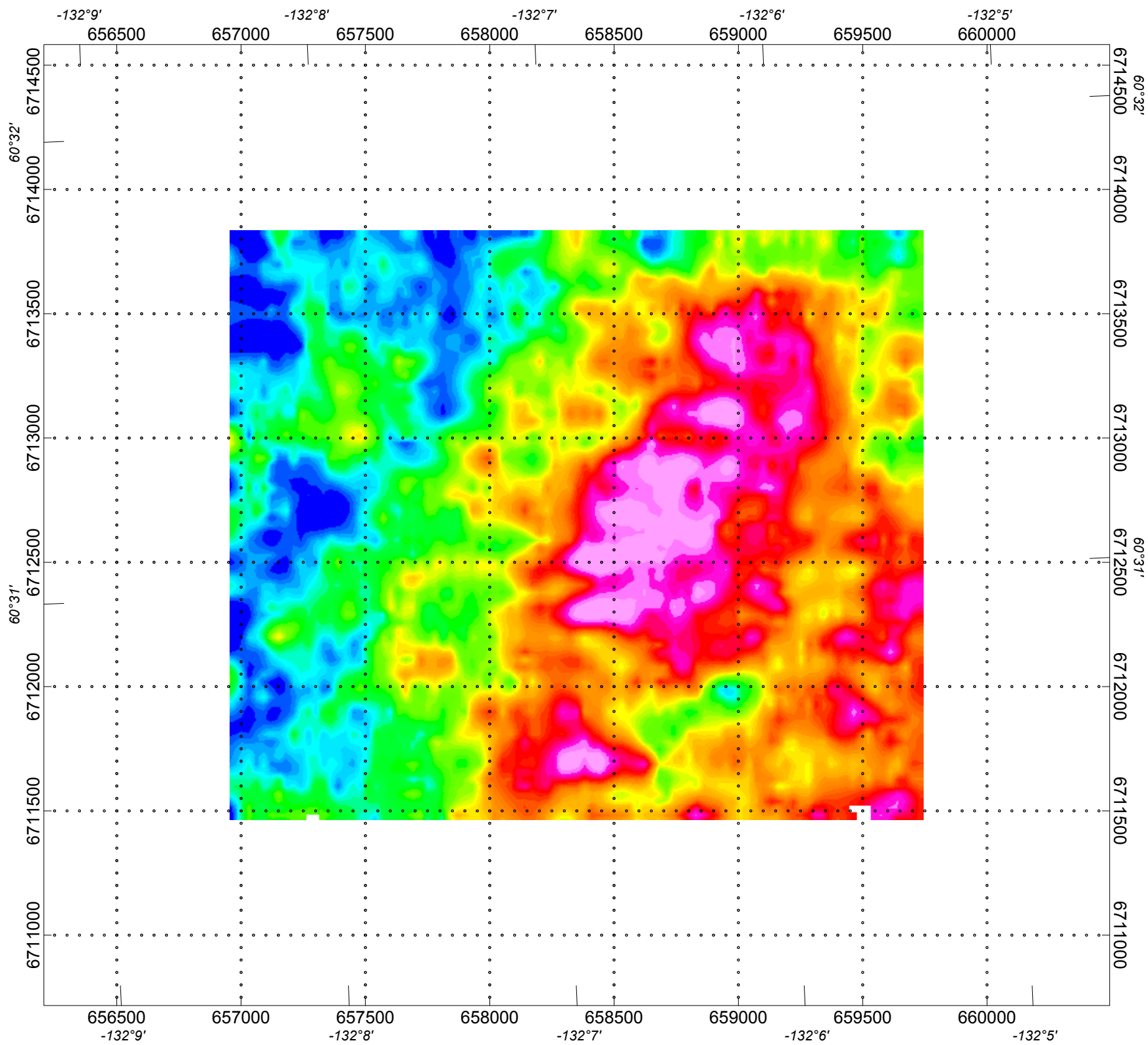
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 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

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 Tie Line Corrections
 Microlevelling



LOGAN RESOURCES LTD.
TOTAL COUNT RADIOMETRIC MAP Limey Claims, Englishman Range Area, Y.T. MAP 5
Magnetic Declination: 23.6 degrees E. Magnetic Inclination: 75.8 degrees
Donegal Developments Ltd., Vancouver, B.C.



DONEGAL
DEVELOPMENTS LTD

INSTRUMENTATION:

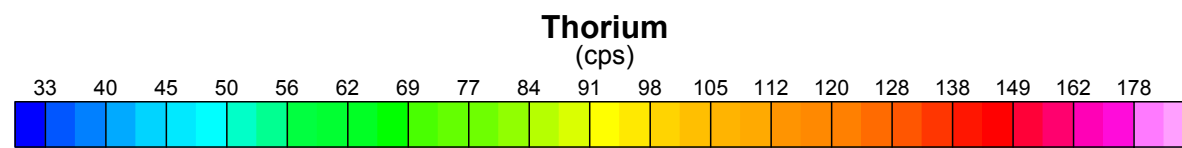
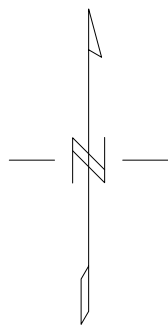
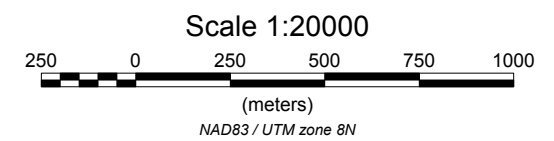
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 Navigation: GPS CSI
 Radar Altimeter: TRA3000
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MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

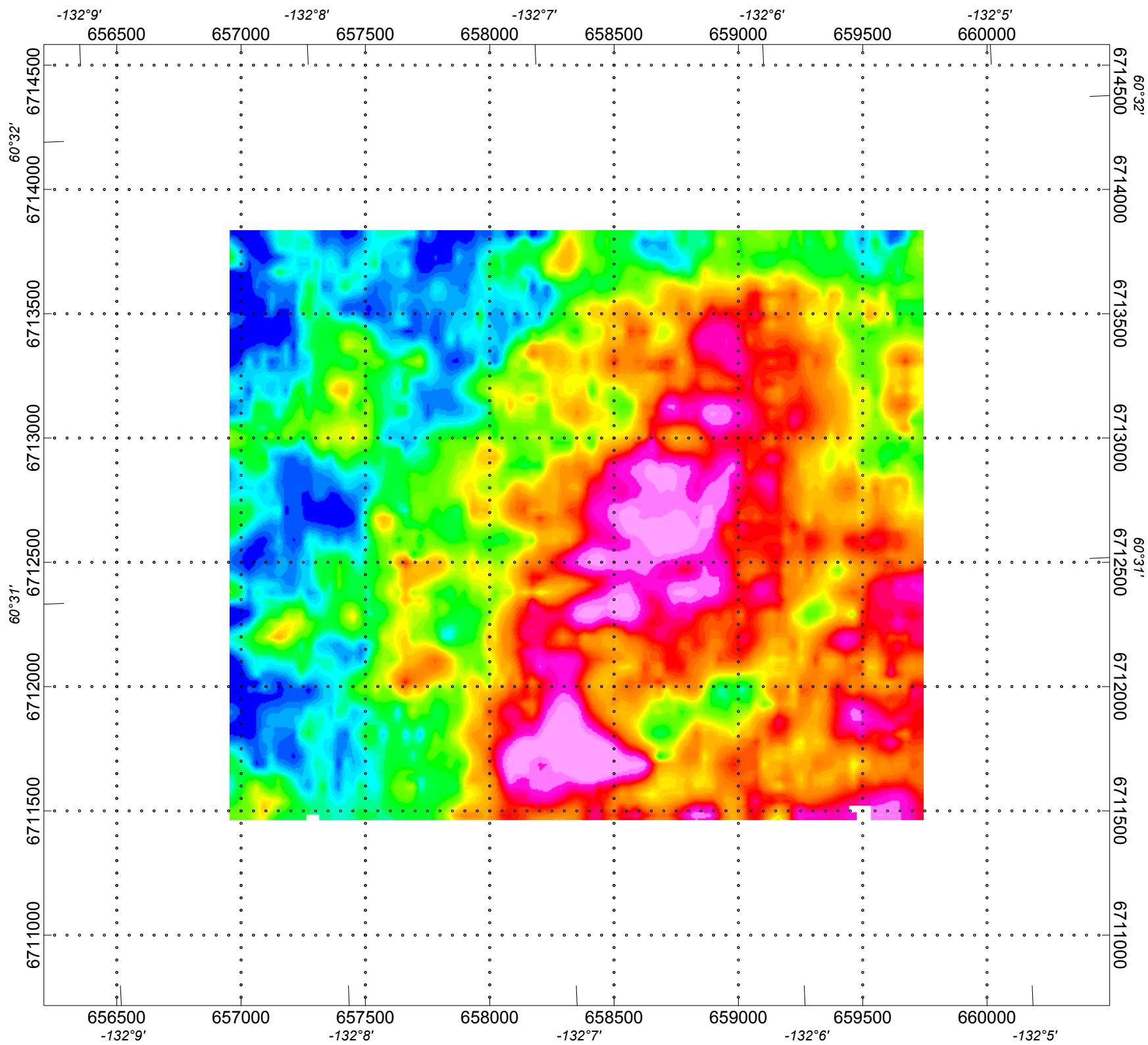


LOGAN RESOURCES LTD.

THORIUM COUNT RADIOMETRIC MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 6

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

Donegal Developments Ltd., Vancouver, B.C.



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INSTRUMENTATION:

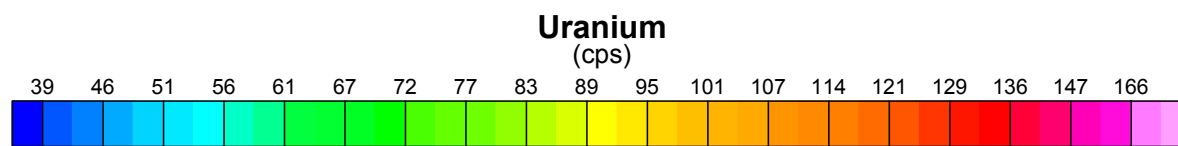
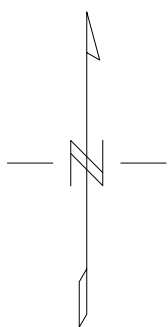
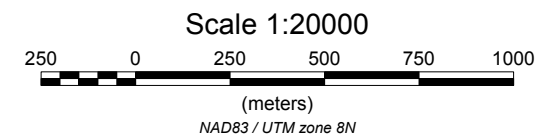
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 Magnetometer: MMS-4/ CS-3 Cesium
 DAS: AGIS-XP
 Navigation: GPS CSI
 Radar Altimeter: TRA3000
 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

SPECIFICATIONS:

MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

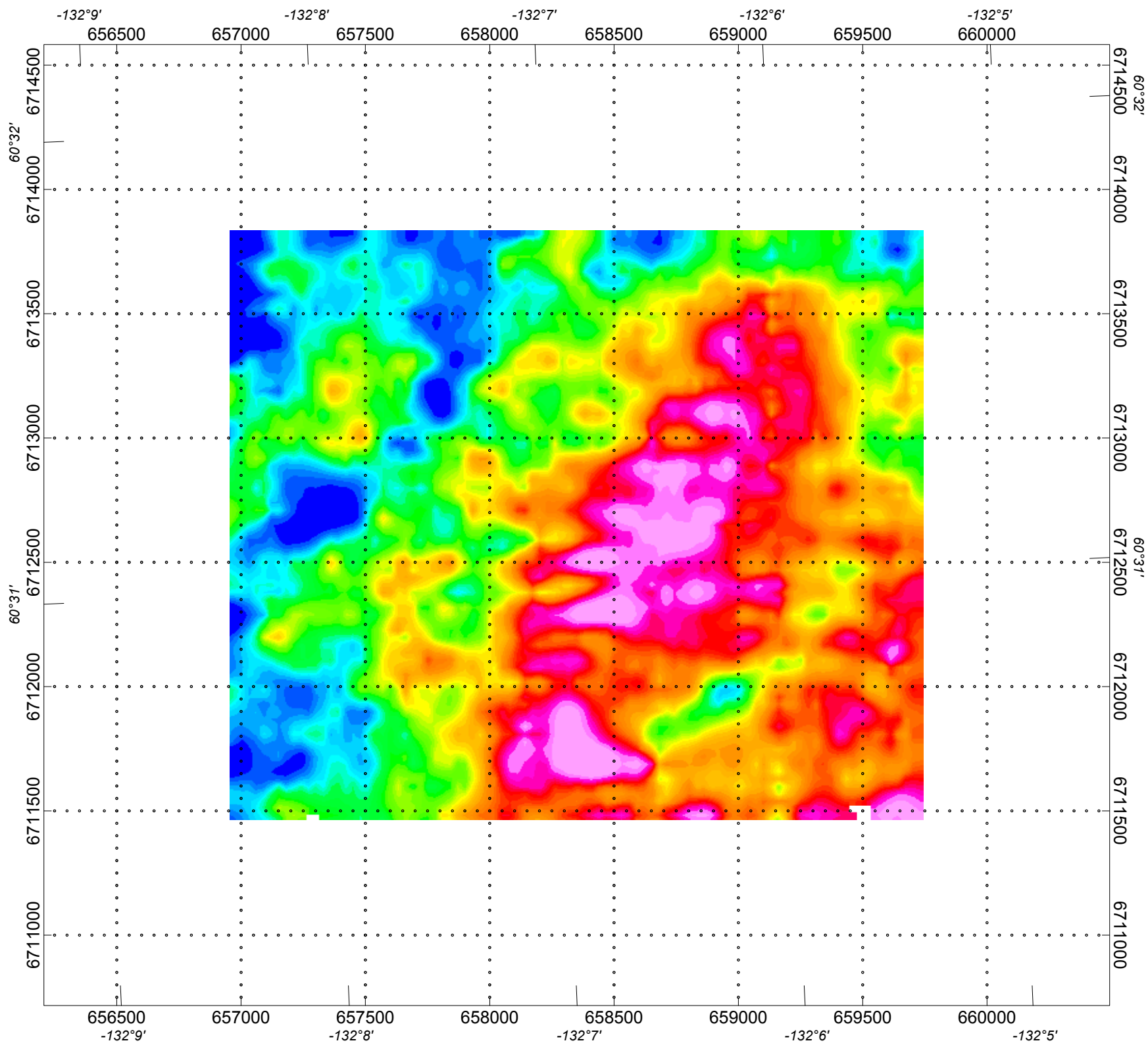


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URANIUM COUNT RADIOMETRIC MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 7

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

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INSTRUMENTATION:

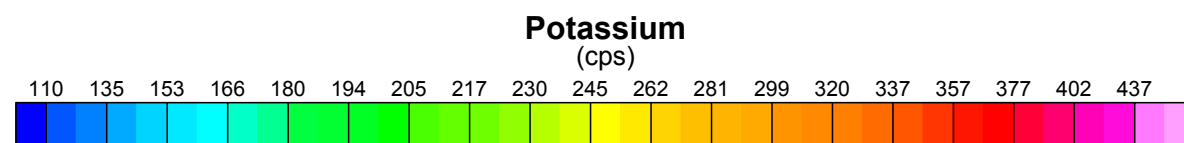
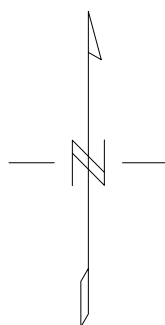
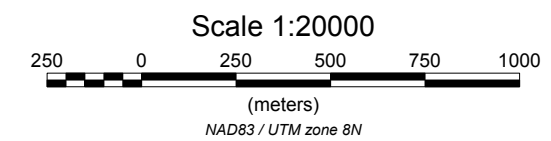
Spectrometer: GRS10-256/ 16.8 l up/4.2 l down
 Magnetometer: MMS-4/ CS-3 Cesium
 DAS: AGIS-XP
 Navigation: GPS CSI
 Radar Altimeter: TRA3000
 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

SPECIFICATIONS:

MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

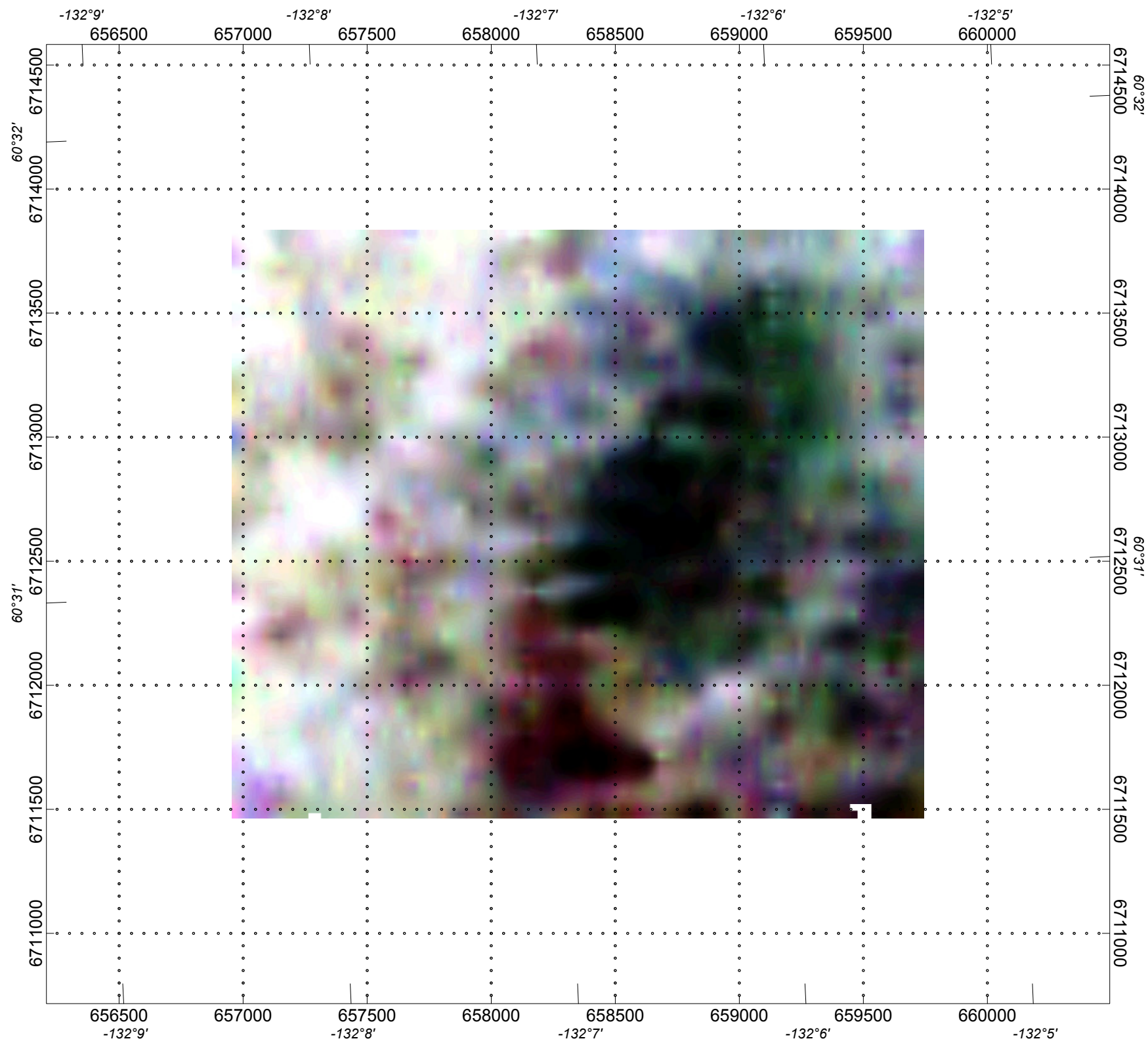


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POTASSIUM COUNT RADIOMETRIC MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 8

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

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INSTRUMENTATION:

Spectrometer: GRS10-256/ 16.8 l up/4.2 l down
 Magnetometer: MMS-4/ CS-3 Cesium
 DAS: AGIS-XP
 Navigation: GPS CSI
 Radar Altimeter: TRA3000
 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

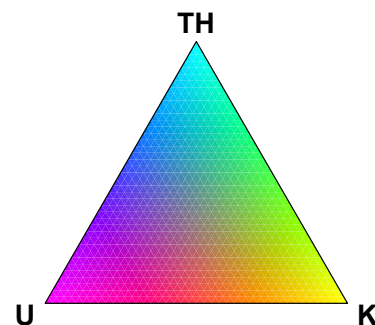
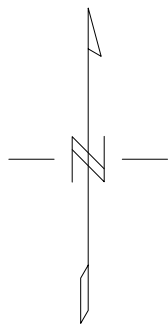
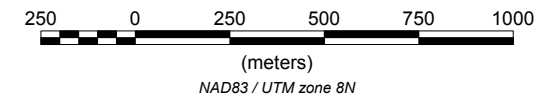
SPECIFICATIONS:

MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

Scale 1:20000

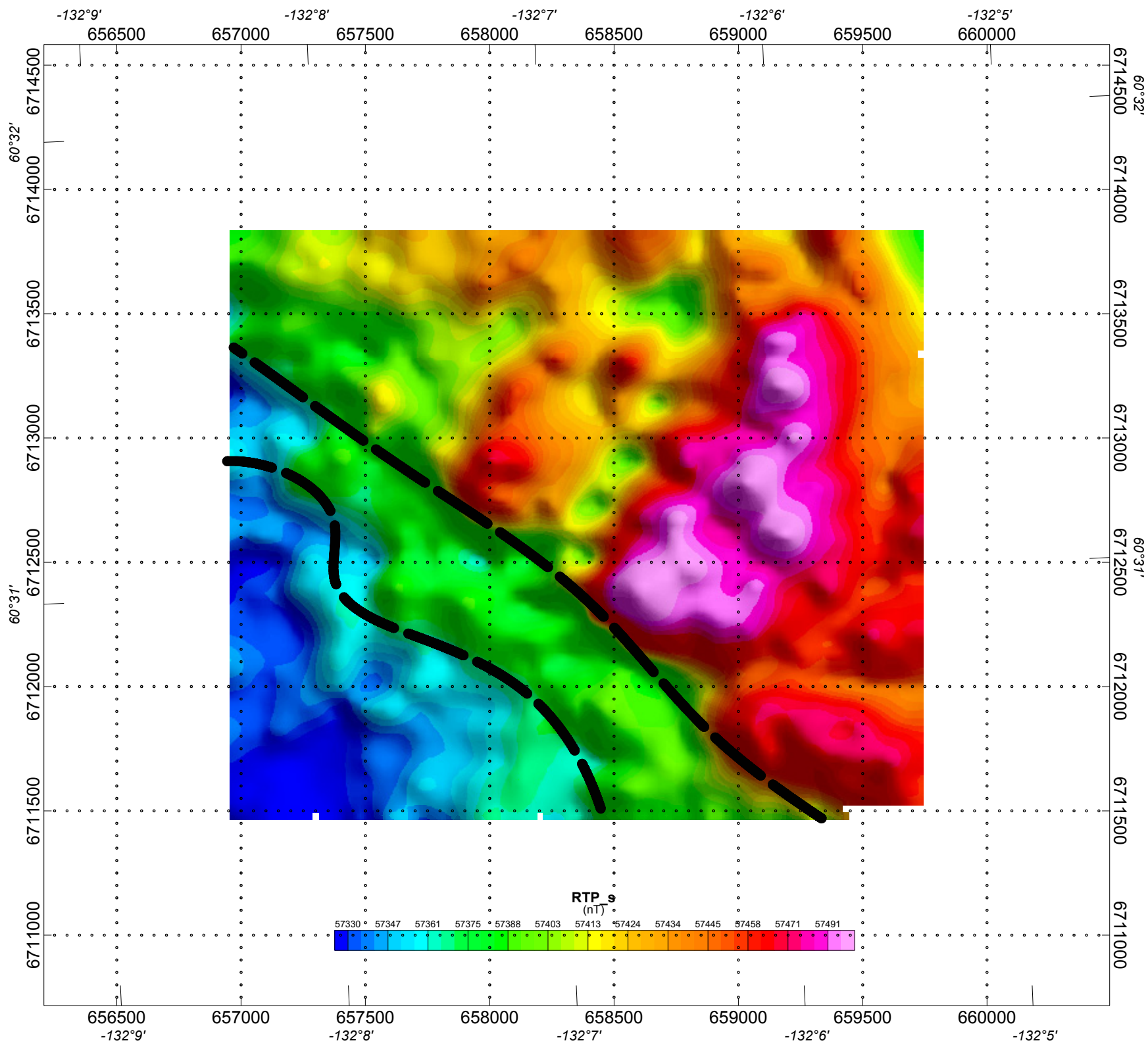


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TERNARY RADIOMETRIC MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 9

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

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INSTRUMENTATION:

Spectrometer: GRS10-256/ 16.8 l up/4.2 l down
 Magnetometer: MMS-4/ CS-3 Cesium
 DAS: AGIS-XP
 Navigation: GPS CSI
 Radar Altimeter: TRA3000
 Temperature/Humidity: HC-S3
 Barometer: Setra M276
 Magnetic Base Station: PGIS/ CS-3 Cesium

SPECIFICATIONS:

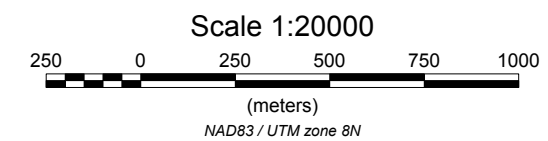
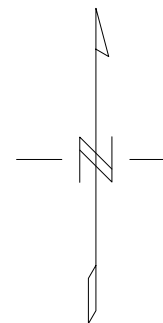
MTC: 50 m
 Line Interval: 100m
 Tie Line Interval 500m
 Magnetometer Noise: less than 1.0 nT
 Spectrometer: Internal calibration/ Sample calibrated (U)

CORRECTIONS

Diurnal Variation
 Lag Corrections
 Heading Corrections
 Tie Line Corrections
 Microlevelling

LEGEND:

Contact Lineament



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INTERPRETATION MAP
Limey Claims, Englishman Range Area, Y.T.
MAP 10

Magnetic Declination: 23.6 degrees E.
 Magnetic Inclination: 75.8 degrees

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