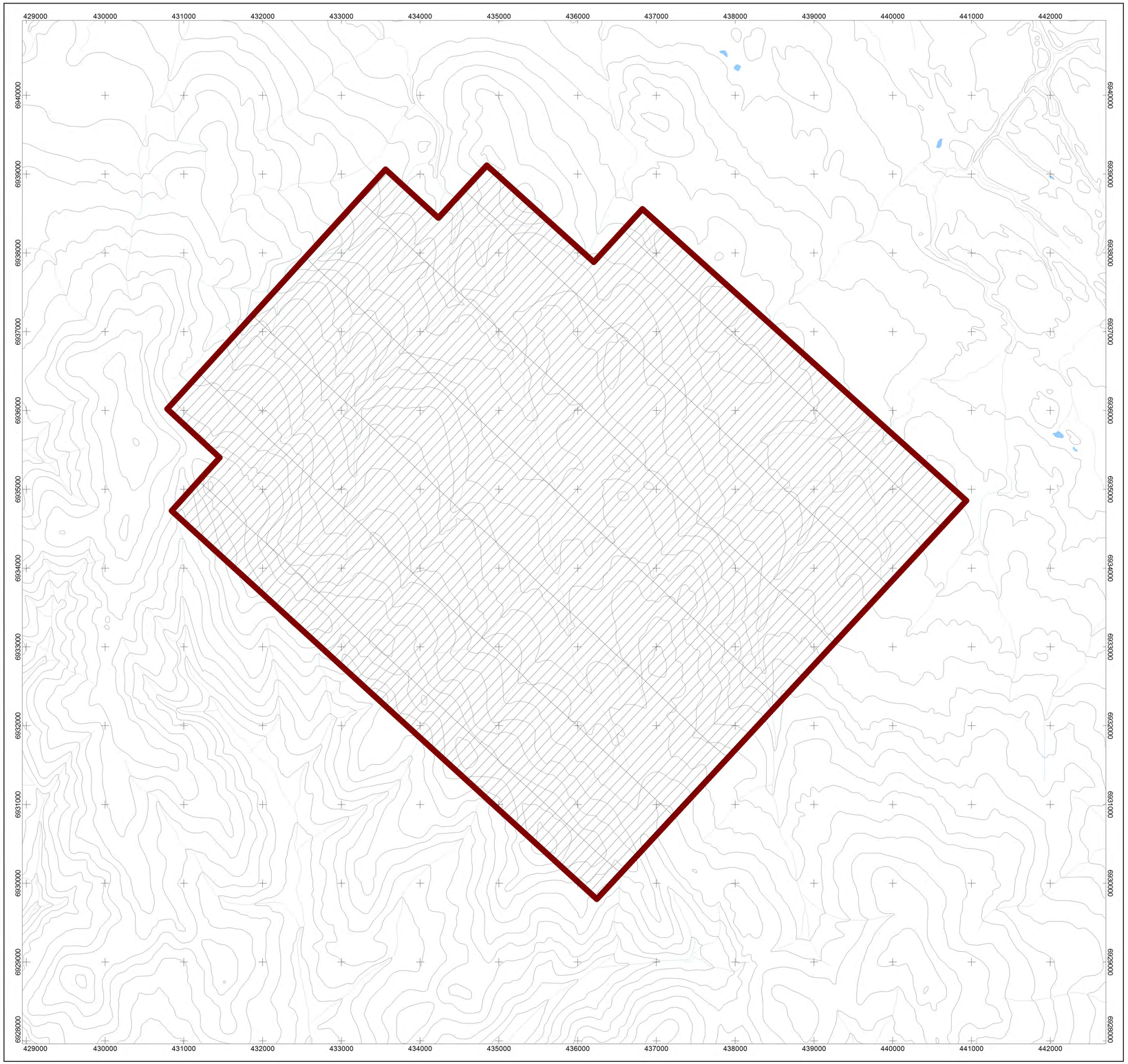
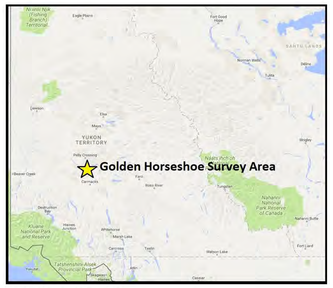
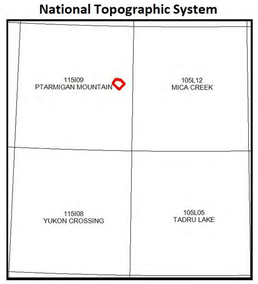




National Topographic System

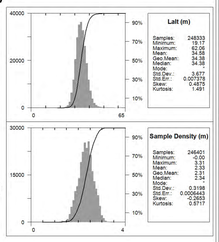


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms

Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....
Actual Flight Lines.....

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Overview Map

Golden Horseshoe Survey Block

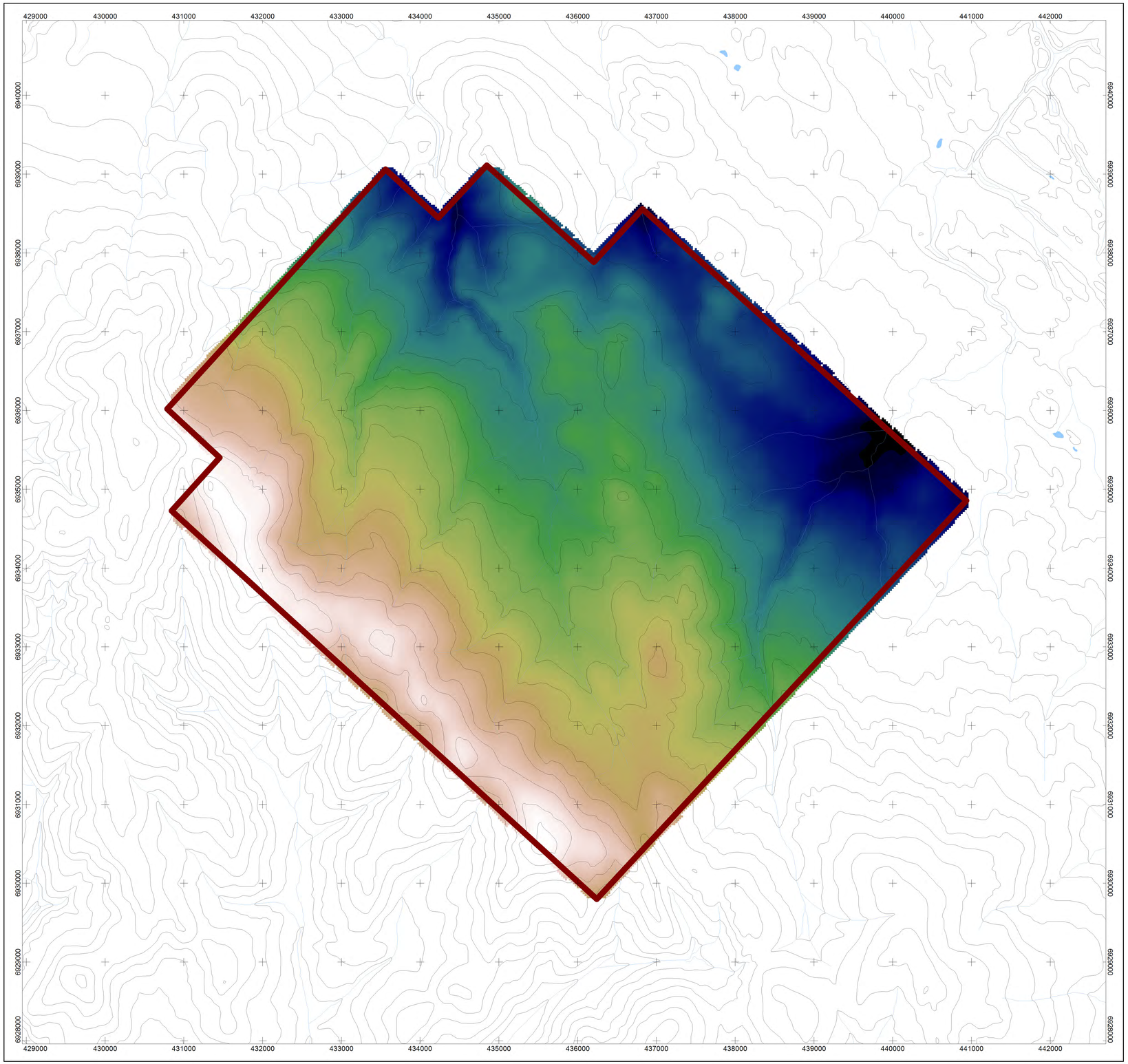
Actual Flight Lines

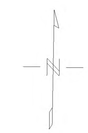
Precision GeoSurveys

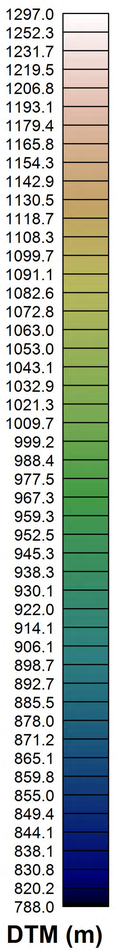
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

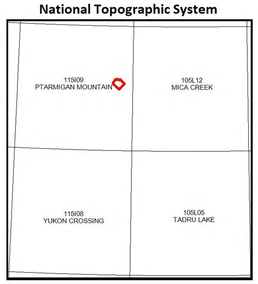
Plate1
FL







National Topographic System

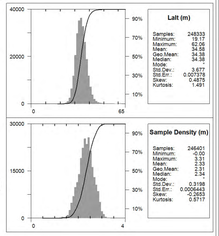


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Overview Map

Golden Horseshoe Survey Block

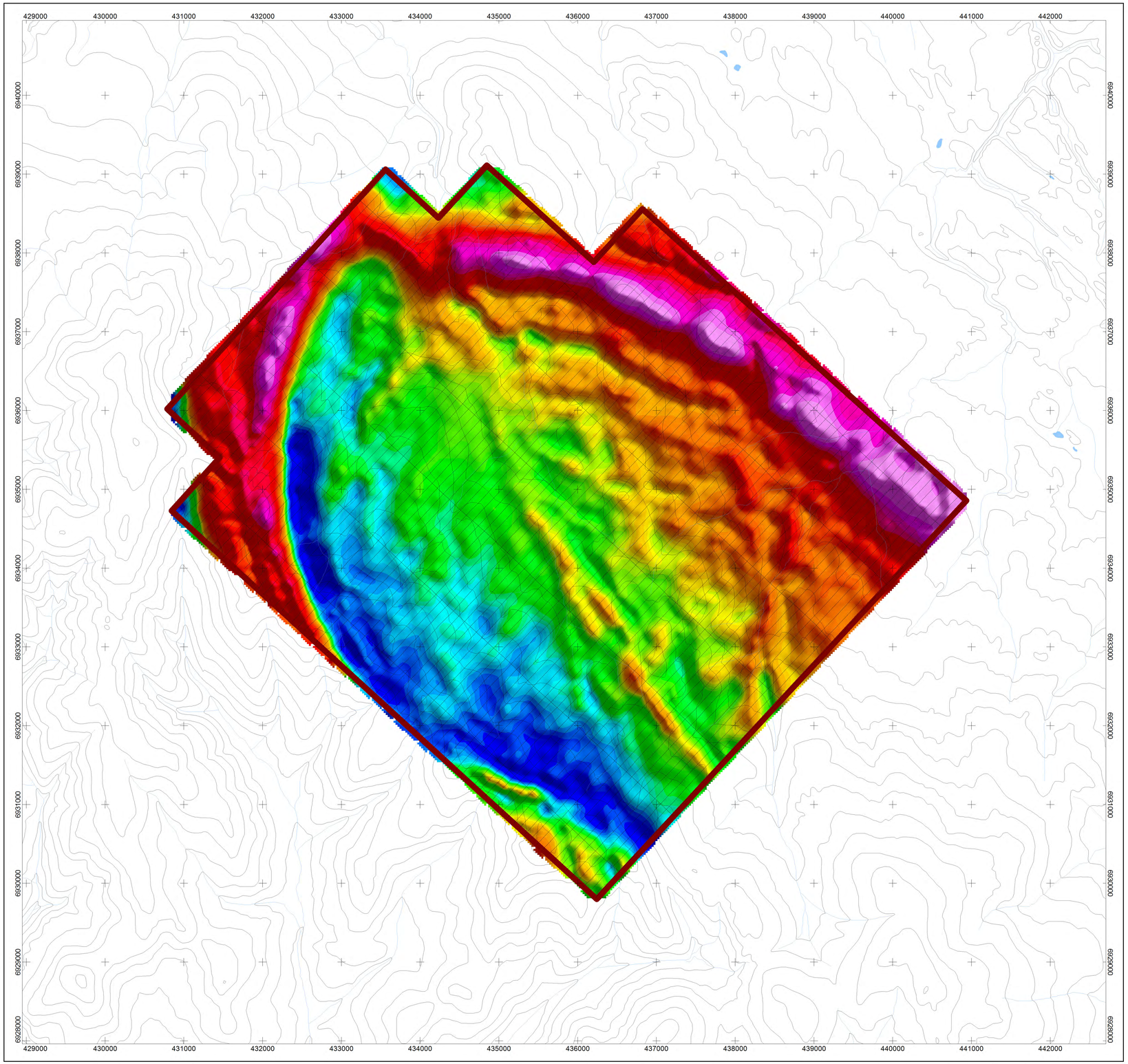
Digital Terrain Model

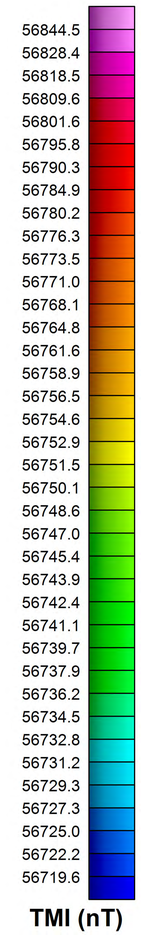
Precision GeoSurveys

Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

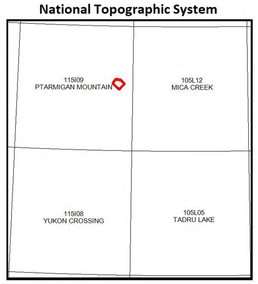
Job#18106
July 26, 2018

Plate2
DTM





National Topographic System

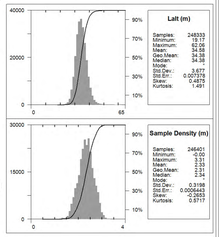


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....
Actual Flight Lines.....

DATA REFERENCE

Magnetic data have been compensated and corrected for temporal variations, lag, and heading, and then leveled to generate the Total Magnetic Intensity (TMI) grid. Refer to report for details. The TMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

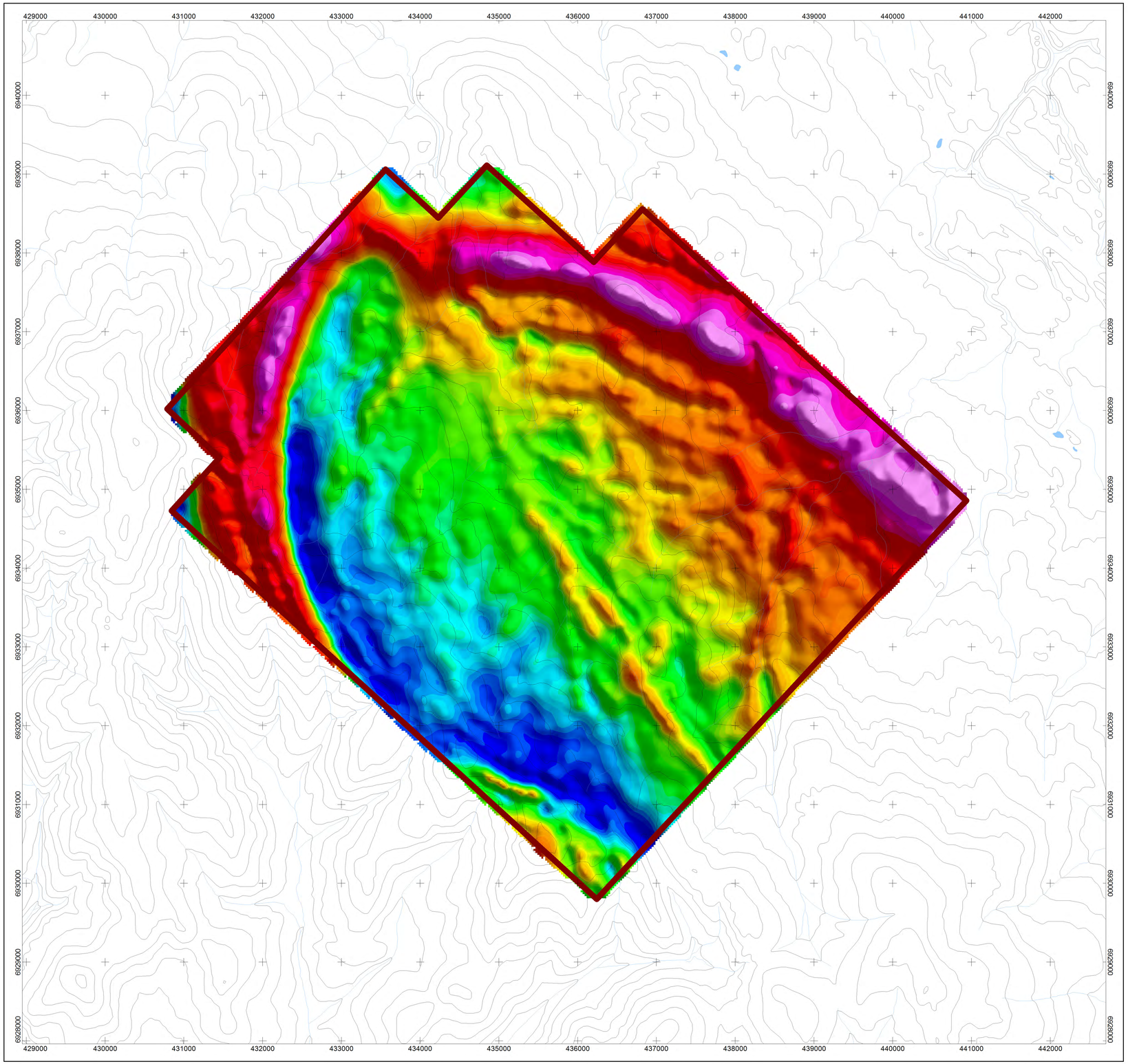
Total Magnetic Intensity with Actual Flight Lines

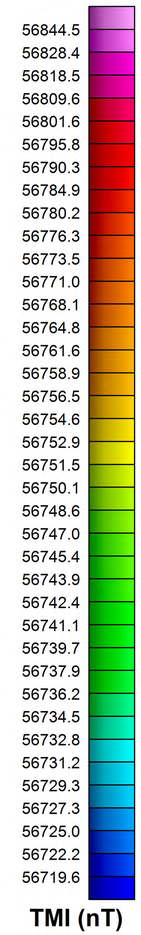
Precision GeoSurveys

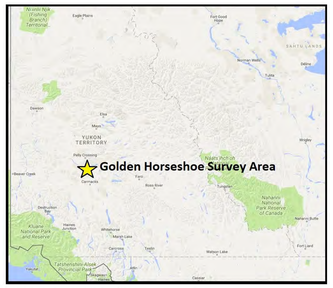
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

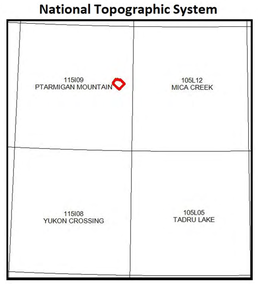
Plate3
TMI_wFL







National Topographic System

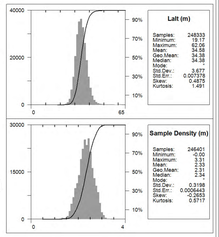


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

DATA REFERENCE

Magnetic data have been compensated and corrected for temporal variations, lag, and heading, and then leveled to generate the Total Magnetic Intensity (TMI) grid. Refer to report for details. The TMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

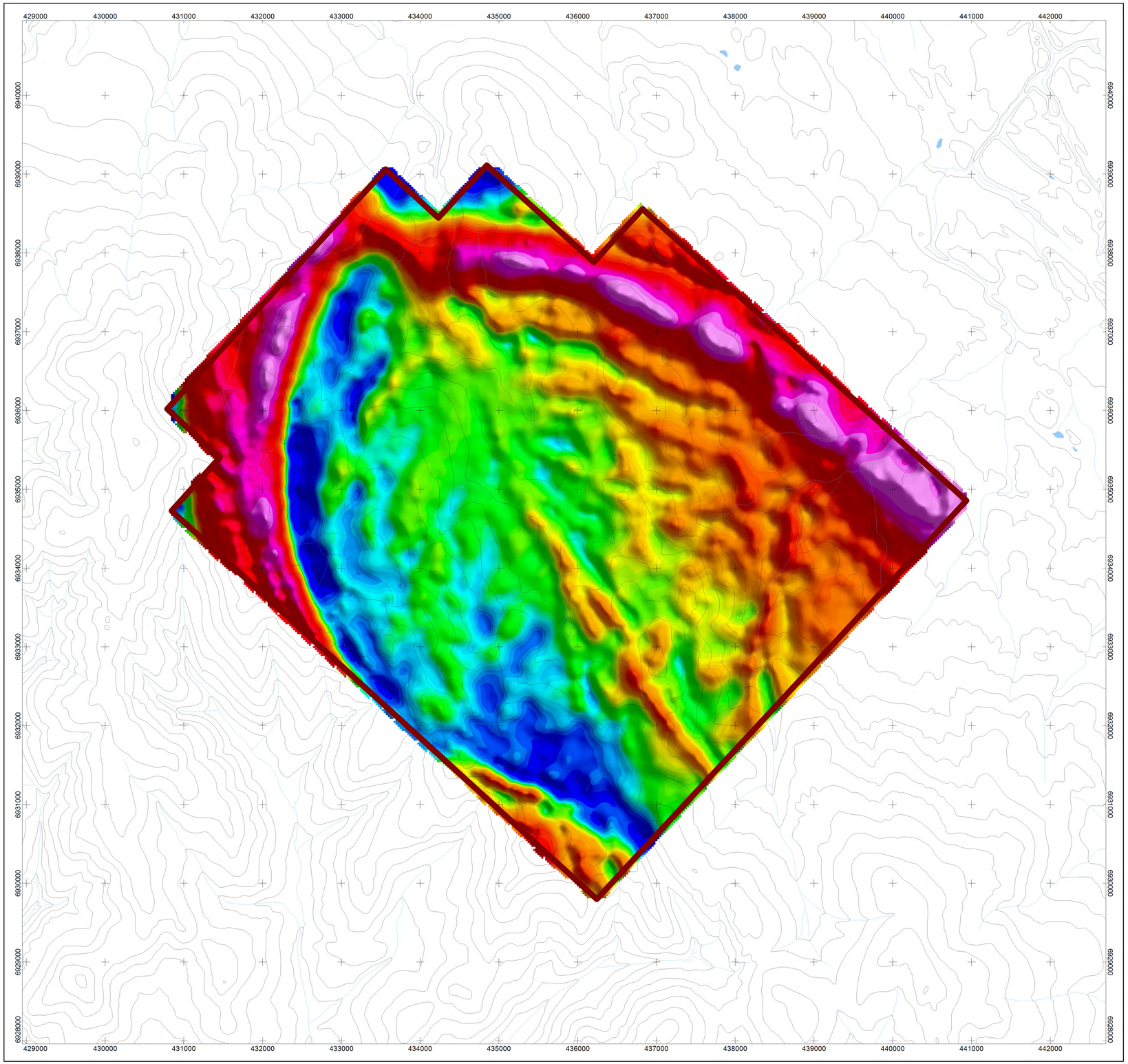
Total Magnetic Intensity

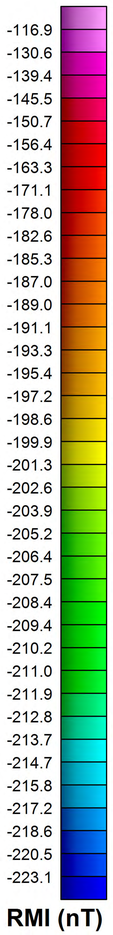
Precision GeoSurveys

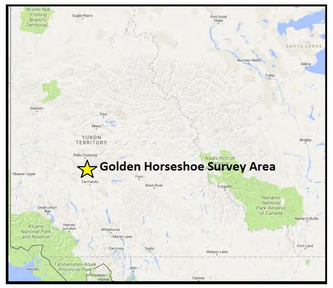
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

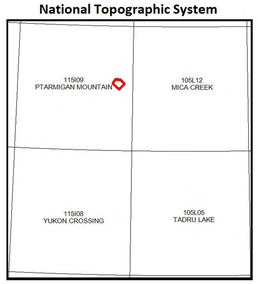
Plate4
TMI







National Topographic System

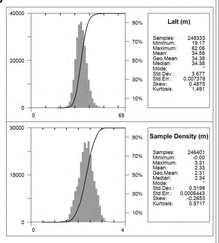


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

DATA REFERENCE

Residual Magnetic Intensity (RMI) is computed by taking the difference between Total Magnetic Intensity (TMI) and IGRF. Refer to report for details. The RMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

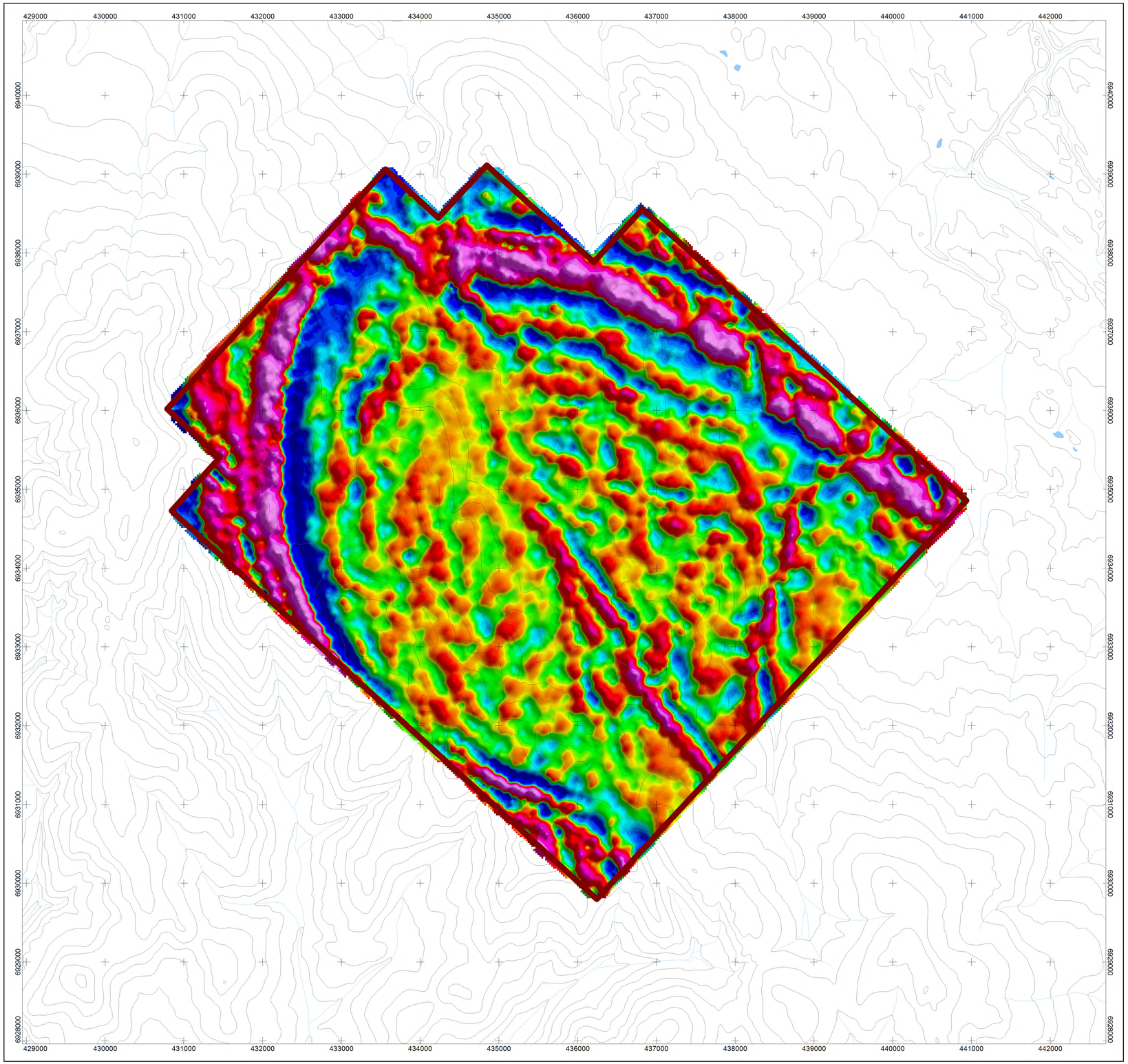
Residual Magnetic Intensity

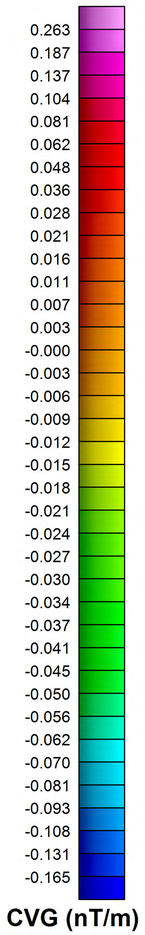
Precision GeoSurveys

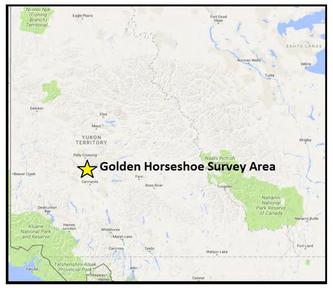
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

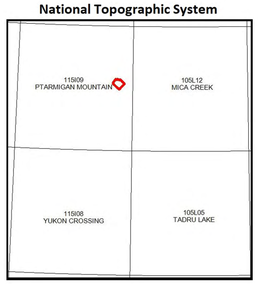
Plate5
RMI







National Topographic System

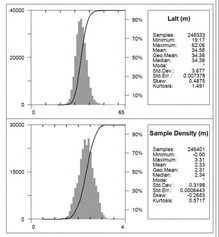


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

DATA REFERENCE

The Calculated Vertical Gradient (CVG) is the first vertical derivative of Residual Magnetic Intensity (RMI). Refer to report for details. The CVG is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

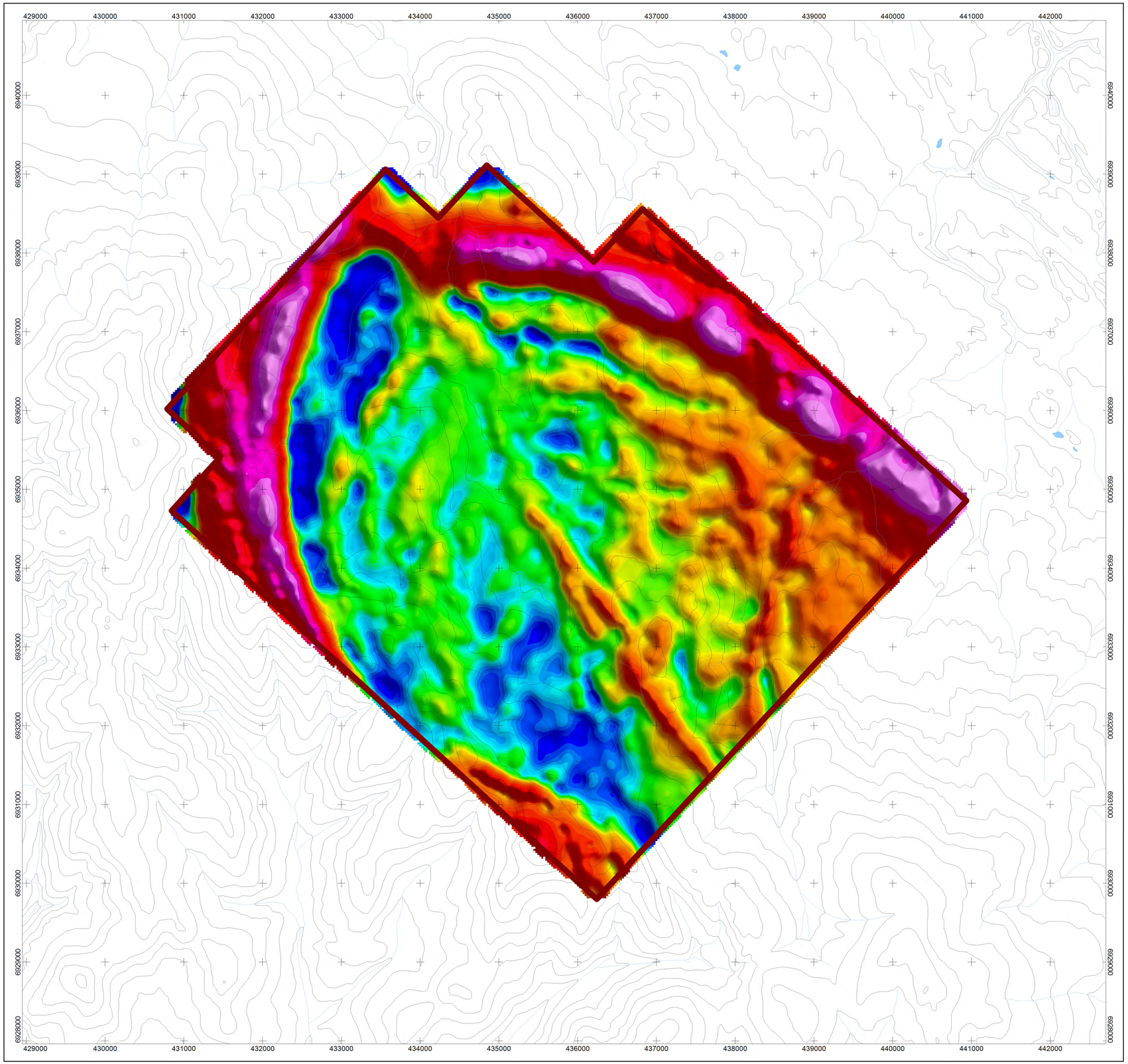
Calculated Vertical Gradient

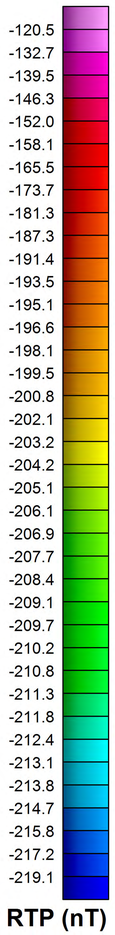
Precision GeoSurveys

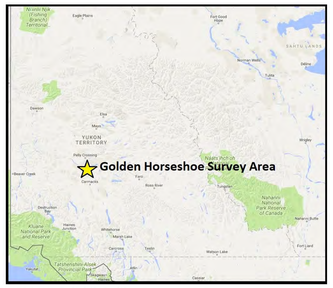
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

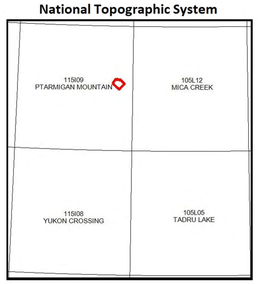
Plate6
CVG







National Topographic System

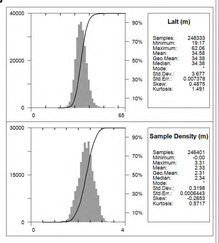


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

DATA REFERENCE

The Reduced to Magnetic Pole (RTP) is computed from Residual Magnetic Intensity (RMI). Refer to report for details. The RTP is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

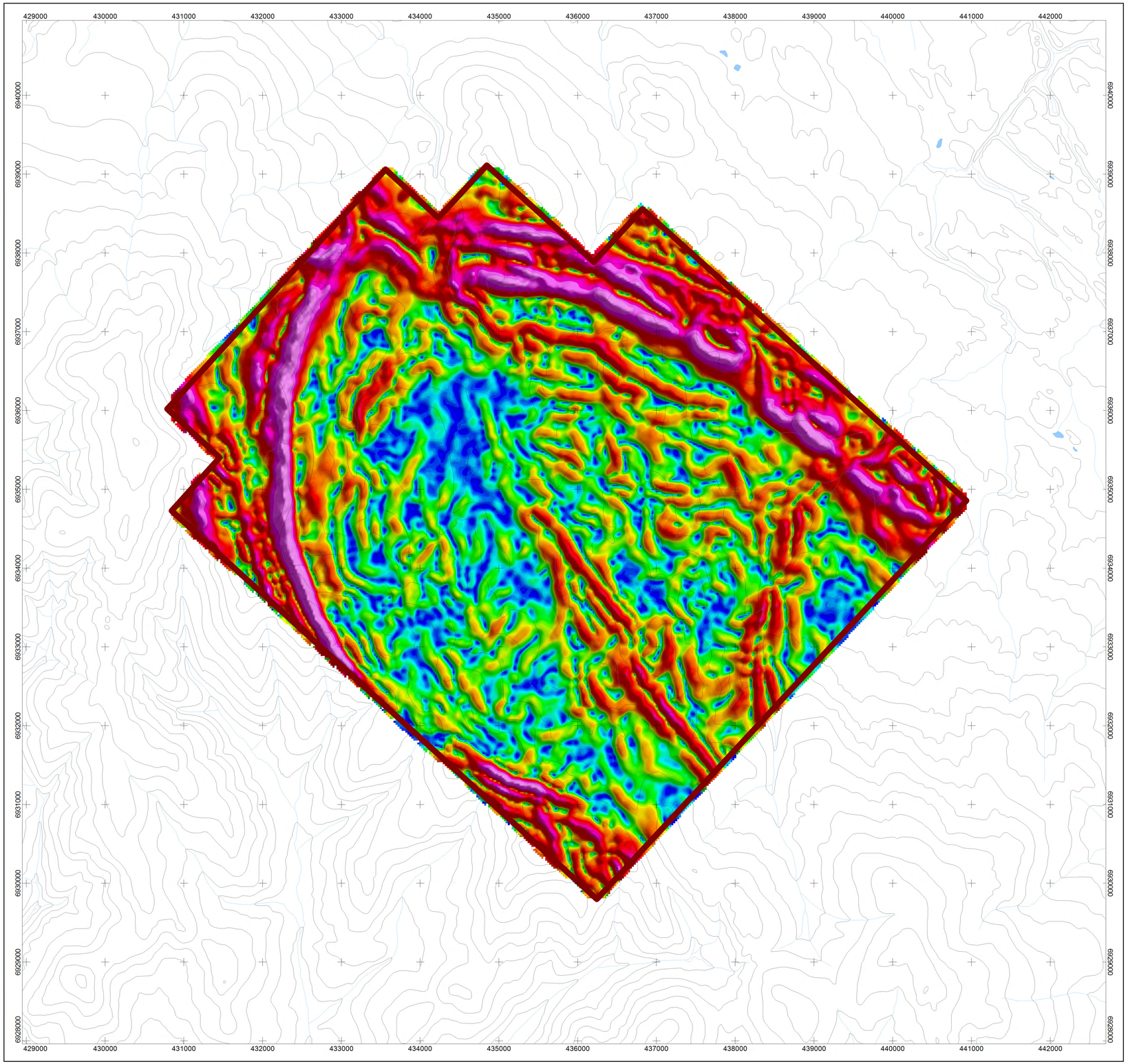
Reduced to Magnetic Pole

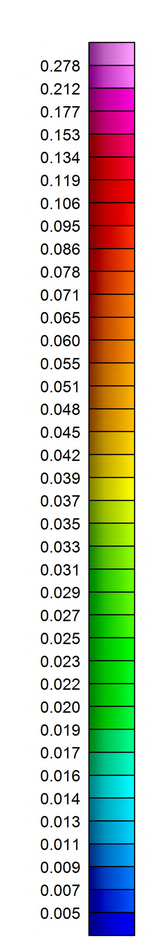
Precision GeoSurveys

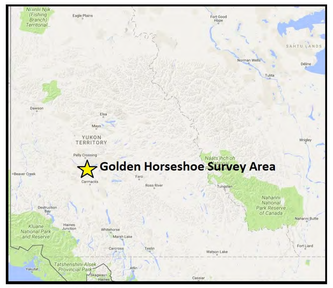
Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

Job#18106
July 26, 2018

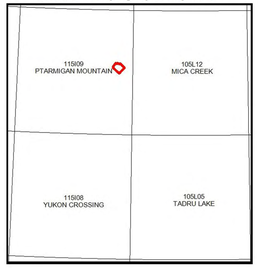
Plate7
RTP







National Topographic System

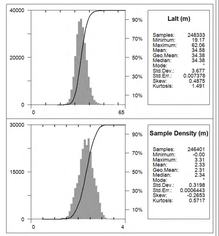


MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

GOLDEN HORSESHOE SURVEY SPECIFICATIONS

Survey Date(s):	July 4, 2018 and July 5, 2018
Survey Base:	Carmacks, Yukon
Aircraft Type:	Airbus AS350
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height:	34.6 meters
Survey Line Spacing:	100 meters
Survey Line Direction:	043°/223°
Tie Line Spacing:	1000 meters
Tie Line Direction:	133°/313°



AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec GRS-10 Gamma Spectrometer
Downward-Looking Crystals:	16.8 litres of NaI(Tl) crystals
Upward-Looking Crystal:	4.2 litres of NaI(Tl) crystal
Sample Rate:	1 Hz

Legend

Water Bodies.....
Golden Horseshoe Survey Block Boundary.....

DATA REFERENCE

The Calculated Horizontal Gradient (CHG) is the magnitude of the horizontal gradient of Residual Magnetic Intensity (RMI). Refer to report for details. The CHG is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information. Contour interval at 100 ft.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Kluane Drilling Ltd.

Magnetic Map

Golden Horseshoe Survey Block

Calculated Horizontal Gradient

Precision GeoSurveys

Scale 1:25000
500 0 500 1000 1500
(meters)
WGS 84 / UTM zone 8N

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Plate8
CHG