
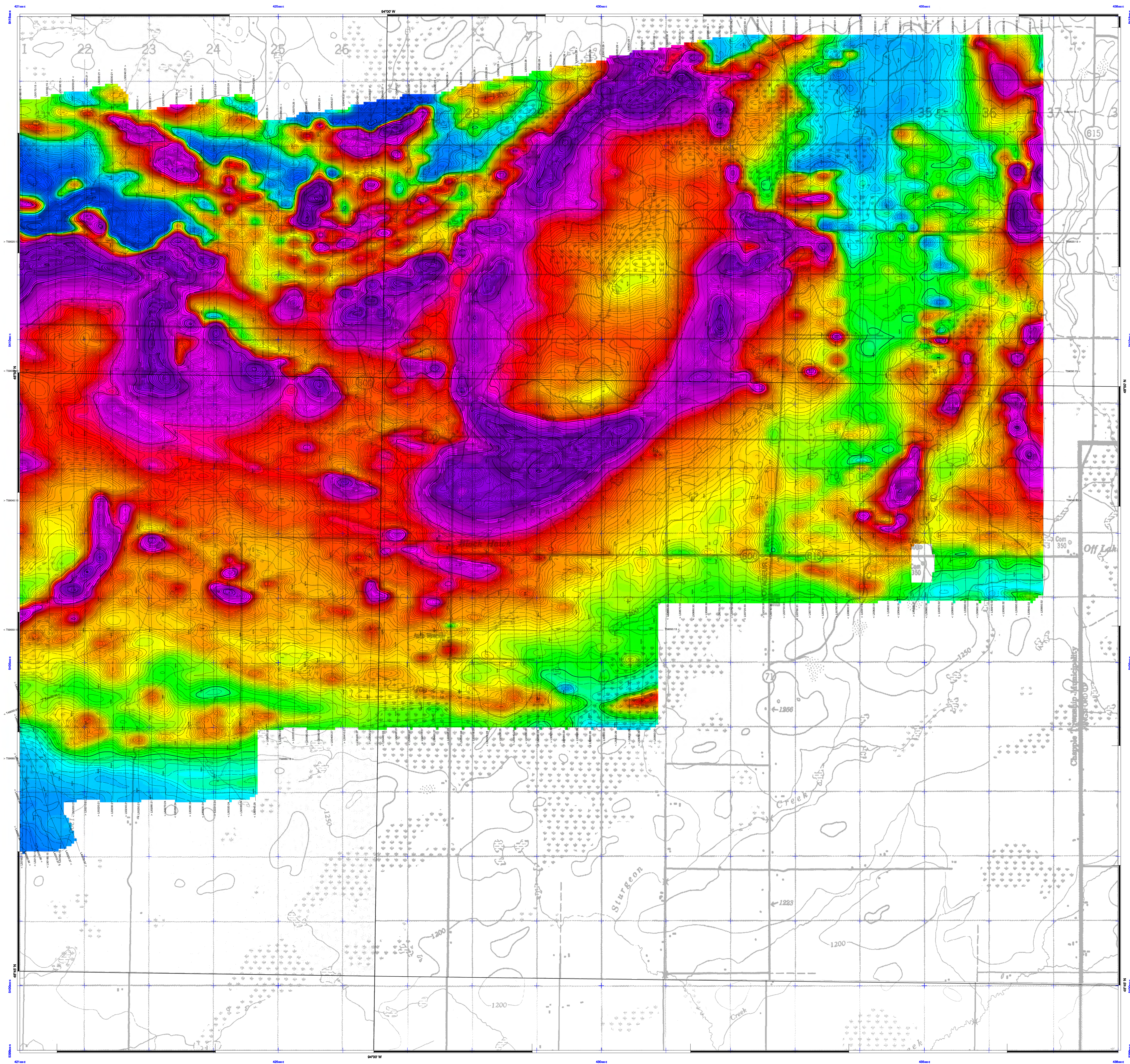
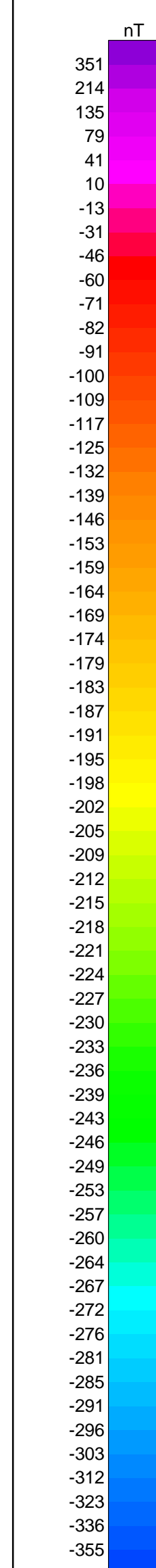
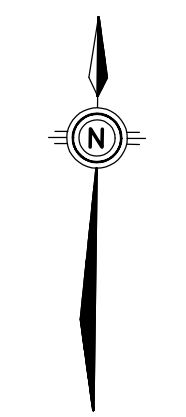
	
Rainy River Resources Gold Project FLIGHT LINE COVERAGE MAP	
Date: 20/2/2012	
Author:	
Office:	
Drawing:	
Scale: 1:35000	Projection: UTM Zone 15, Northern Hemisphere (WGS 84)
	

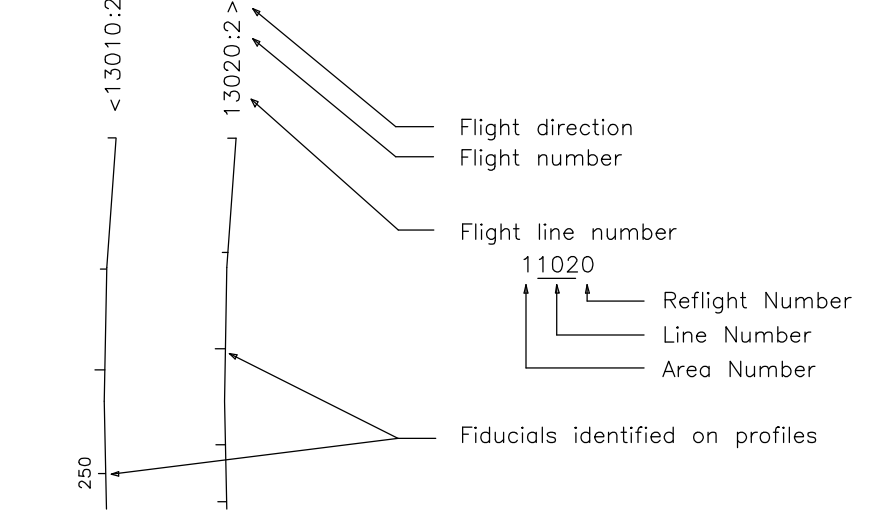


TECHNICAL SUMMARY

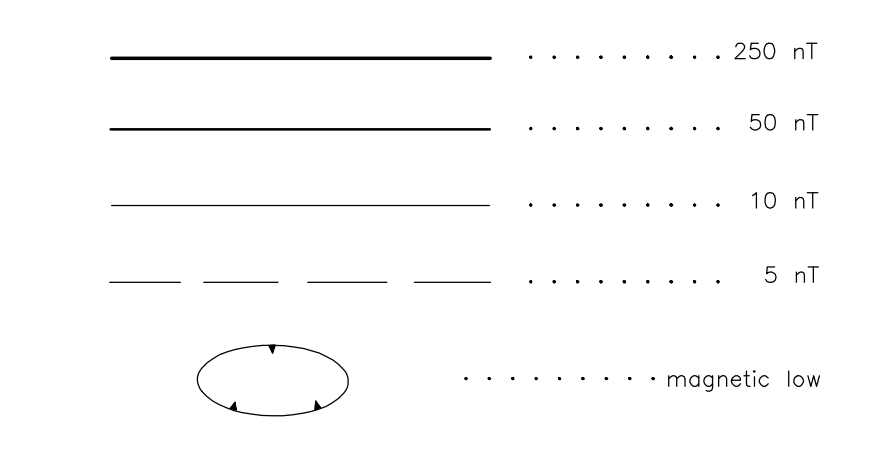
- Navigation Differentially-corrected GPS
- Data reduction grid interval 25 m
- Terrain clearance Helicopter as HELITEM receiver 62 m
- HELITEM transmitter 35 m
- Magnetometer 35 m
- Data sampling interval 0.1 seconds
- Magnetometer / sensitivity Caesium / 0.01 nT
- Electromagnetic system HELITEM 30 channel multicoil system
- Transmitter installation Vertical axis loop slung below helicopter
- Transmitter loop area 708 m²
- Transmitter base frequency 30 Hz
- Pulse width 4 ms
- Off-time period 13 ms
- Receiver installation Slung below helicopter
- Receiver coils Multiple coils in X,Y,Z orientation
- Receiver sample rate 0.1 seconds
- Digital acquisition Fugro Airborne Surveys HELIDAS system



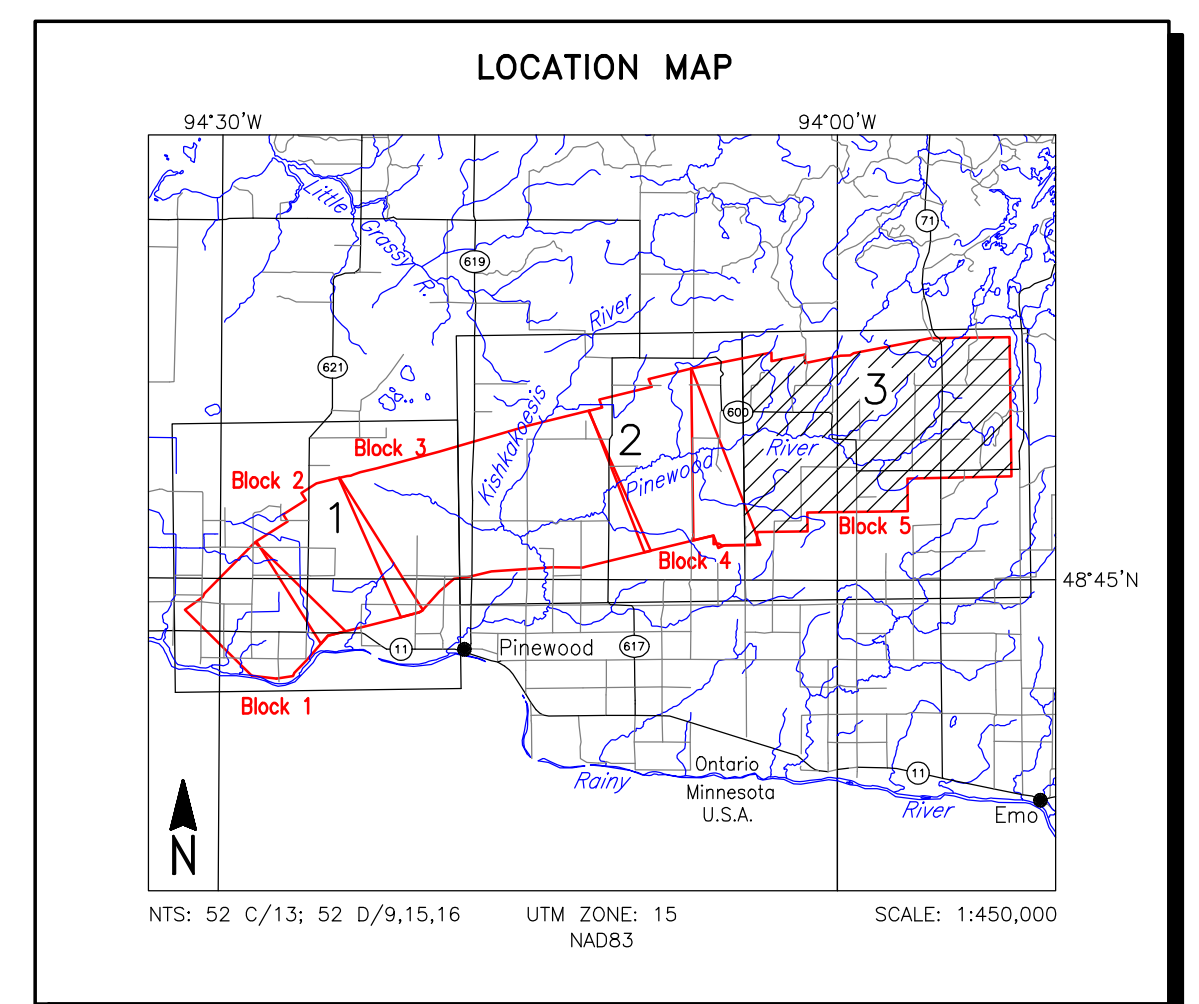
FLIGHT LINES



RESIDUAL MAGNETIC INTENSITY CONTOURS



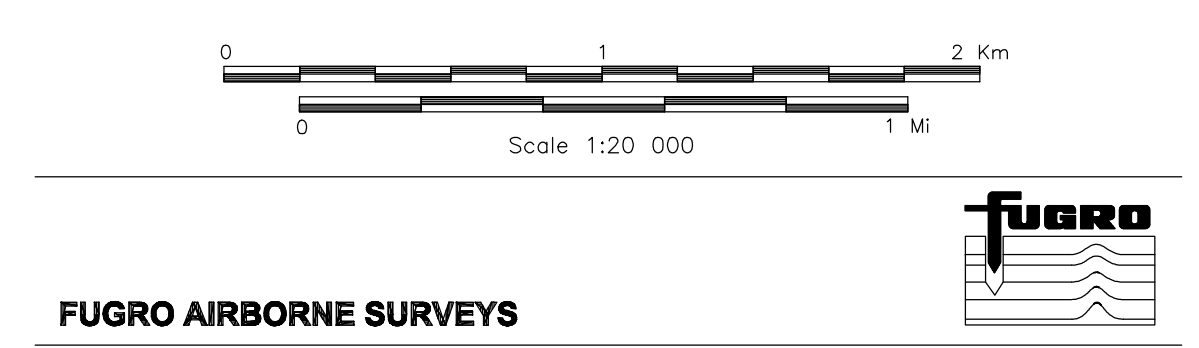
Magnetic inclination within the survey area: 75 degrees N
 Magnetic declination within the survey area: 3 degrees W

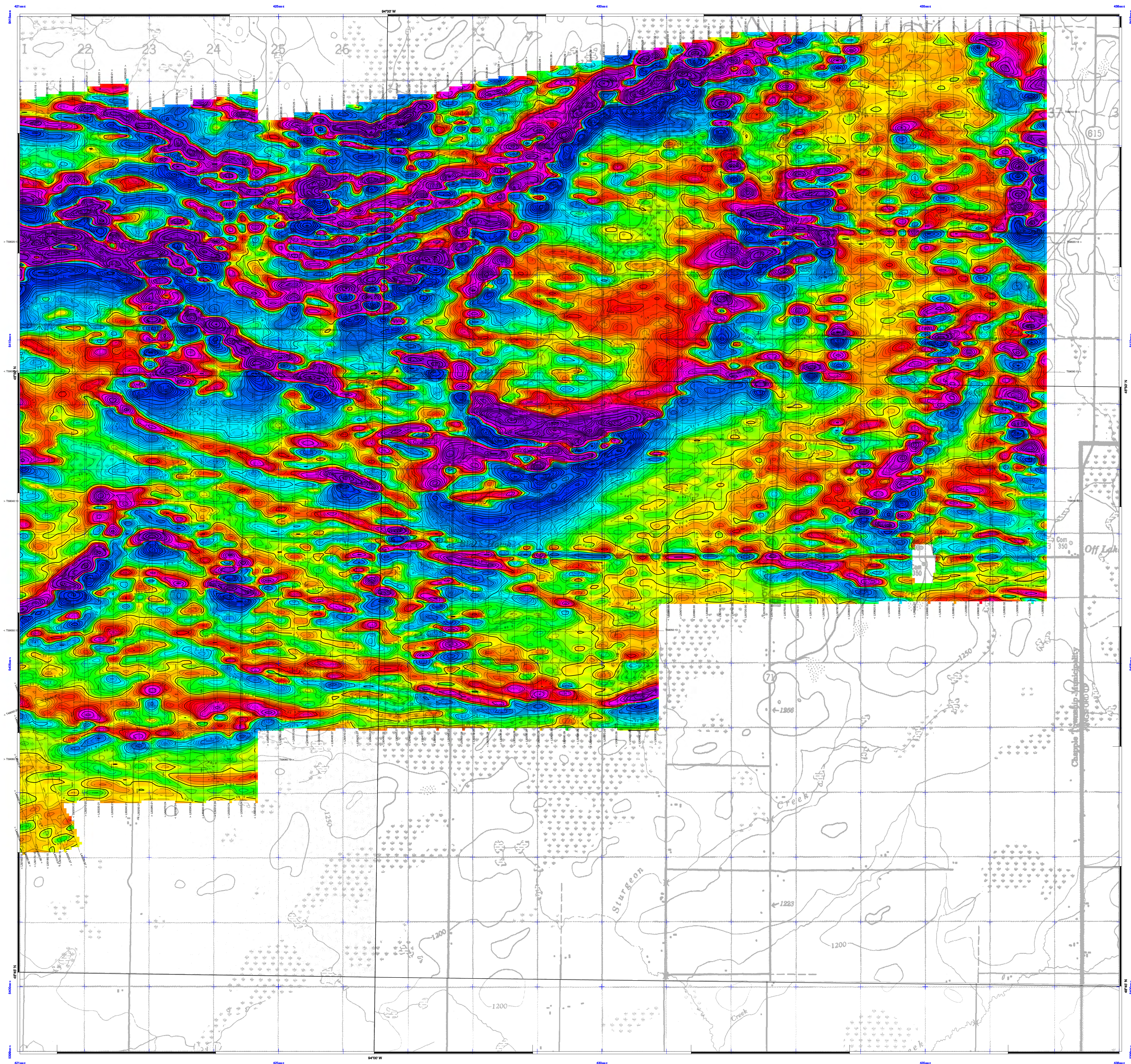


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RESIDUAL MAGNETIC INTENSITY
IGRF Removed

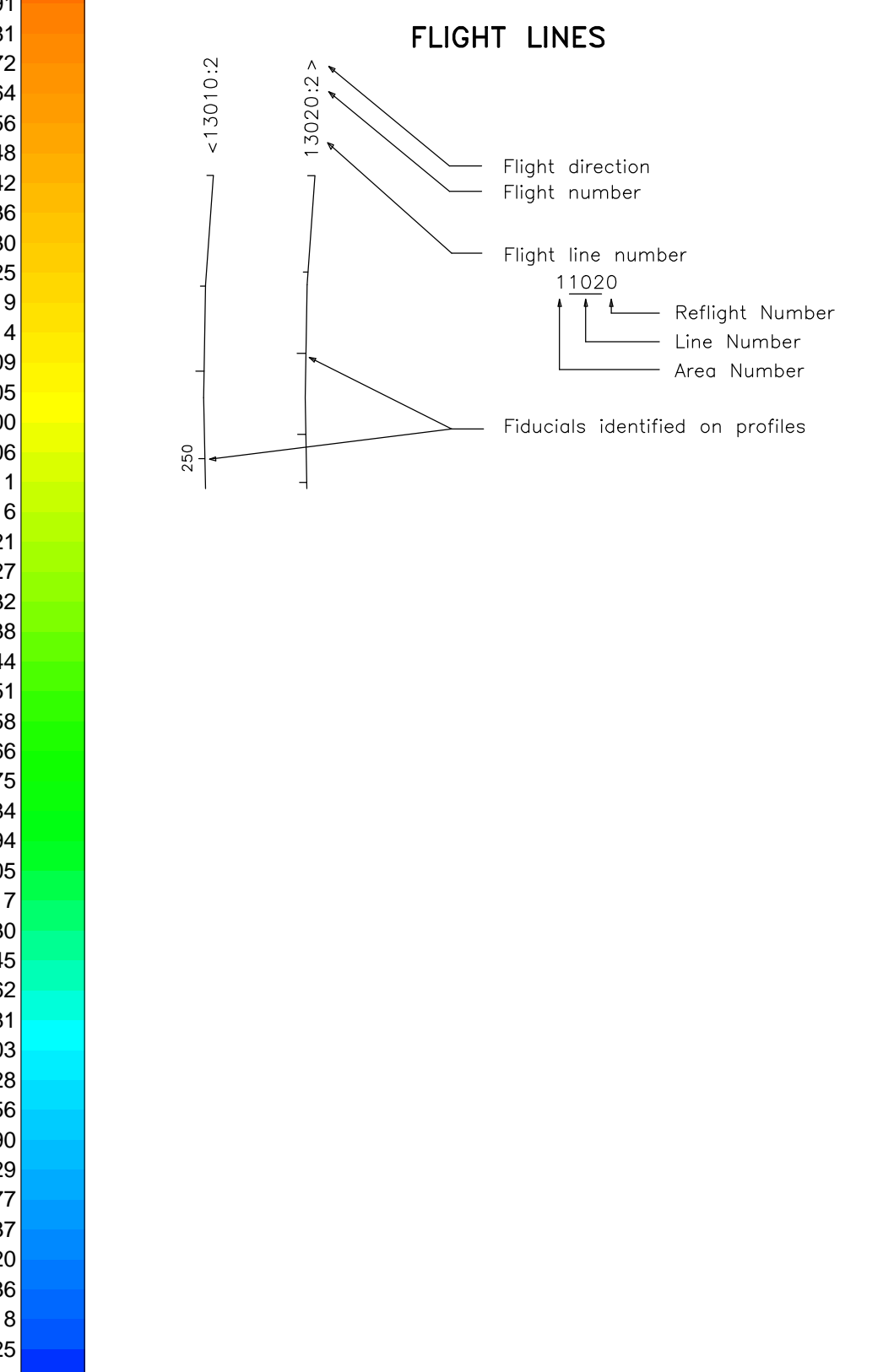
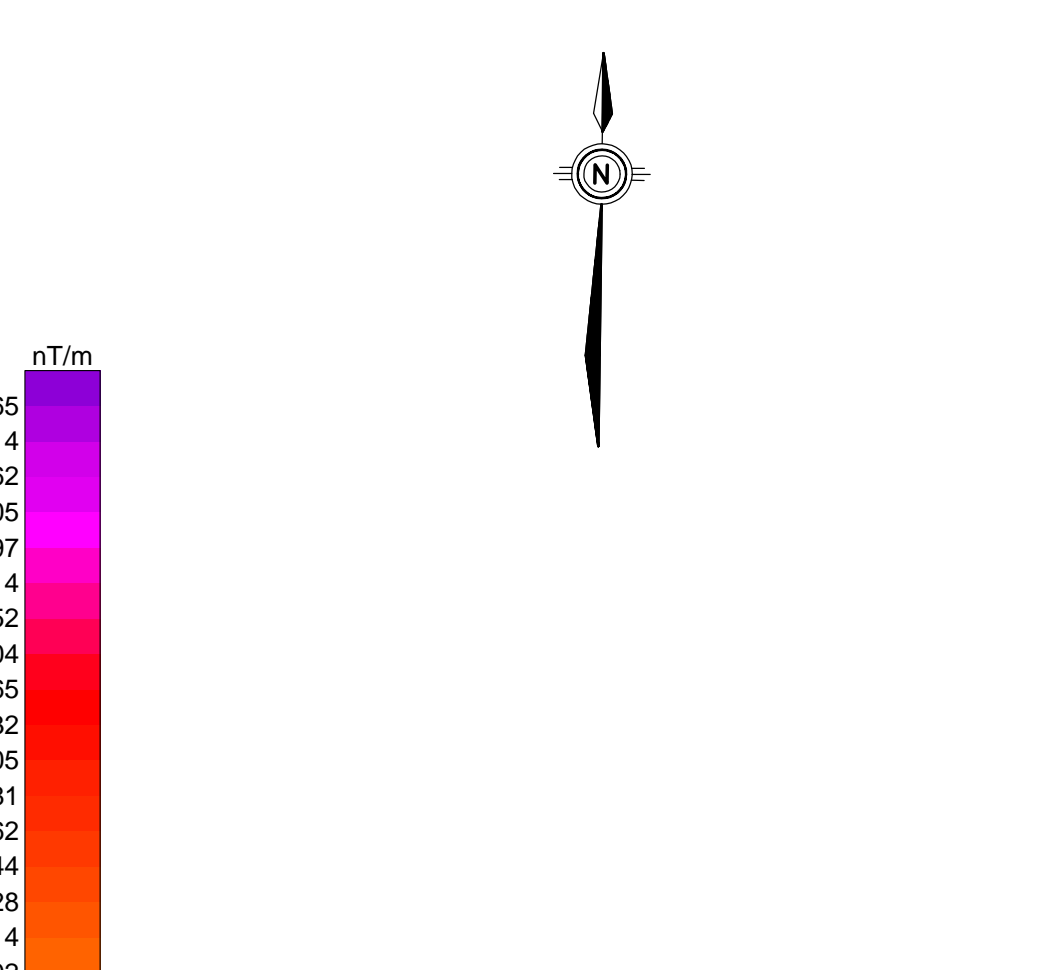
FUGRO HELITEM SURVEY	NTS: 52 C/13, 52 D/9,15,16	GEOPHYSICIST:
DATE: JULY, 2011	JOB: 11021	SHEET: 3
Fugro Airborne Surveys		





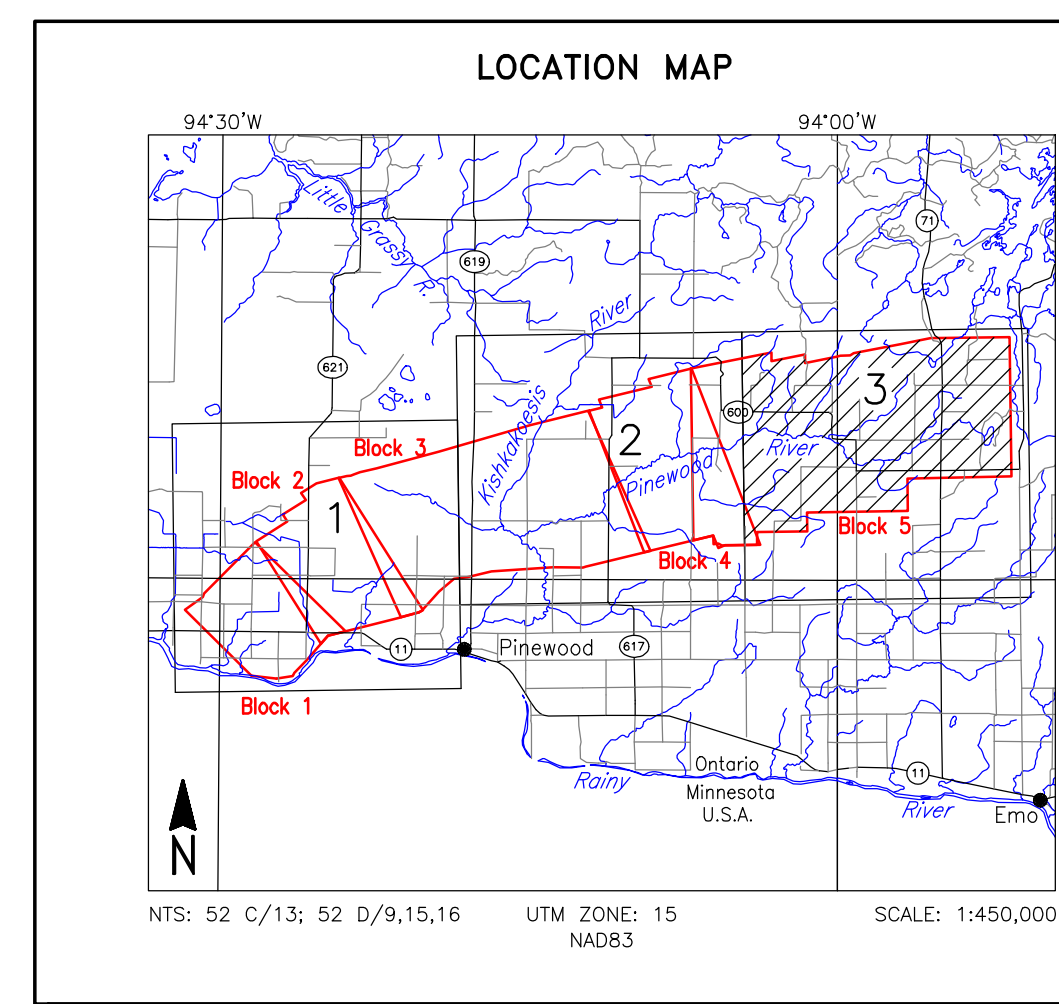
TECHNICAL SUMMARY

Navigation	Differentially-corrected GPS
Data reduction grid interval	25 m
Terrain clearance	Helicopter 85 m HELITEM receiver 62 m HELITEM transmitter 35 m Magnetometer 35 m
Data sampling interval	0.1 seconds
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	HELITEM 50 channel multicoil system
Transmitter installation	Vertical axis loop slung below helicopter
Transmitter loop area	738 m ²
Transmitter turns	2
Transmitter base frequency	30 Hz
Pulse width	4 ms
Off-time period	13 ms
Receiver installation	Slung below helicopter
Receiver coils	Multiple coils in X,Y,Z orientation
Receiver sample rate	0.1 seconds
Digital acquisition	Fugro Airborne Surveys HELIMAS system



CALCULATED HORIZONTAL MAGNETIC GRADIENT CONTOURS

—————	1.00 nT/metre
—————	0.20 nT/metre
—————	0.04 nT/metre
—————	0.02 nT/metre

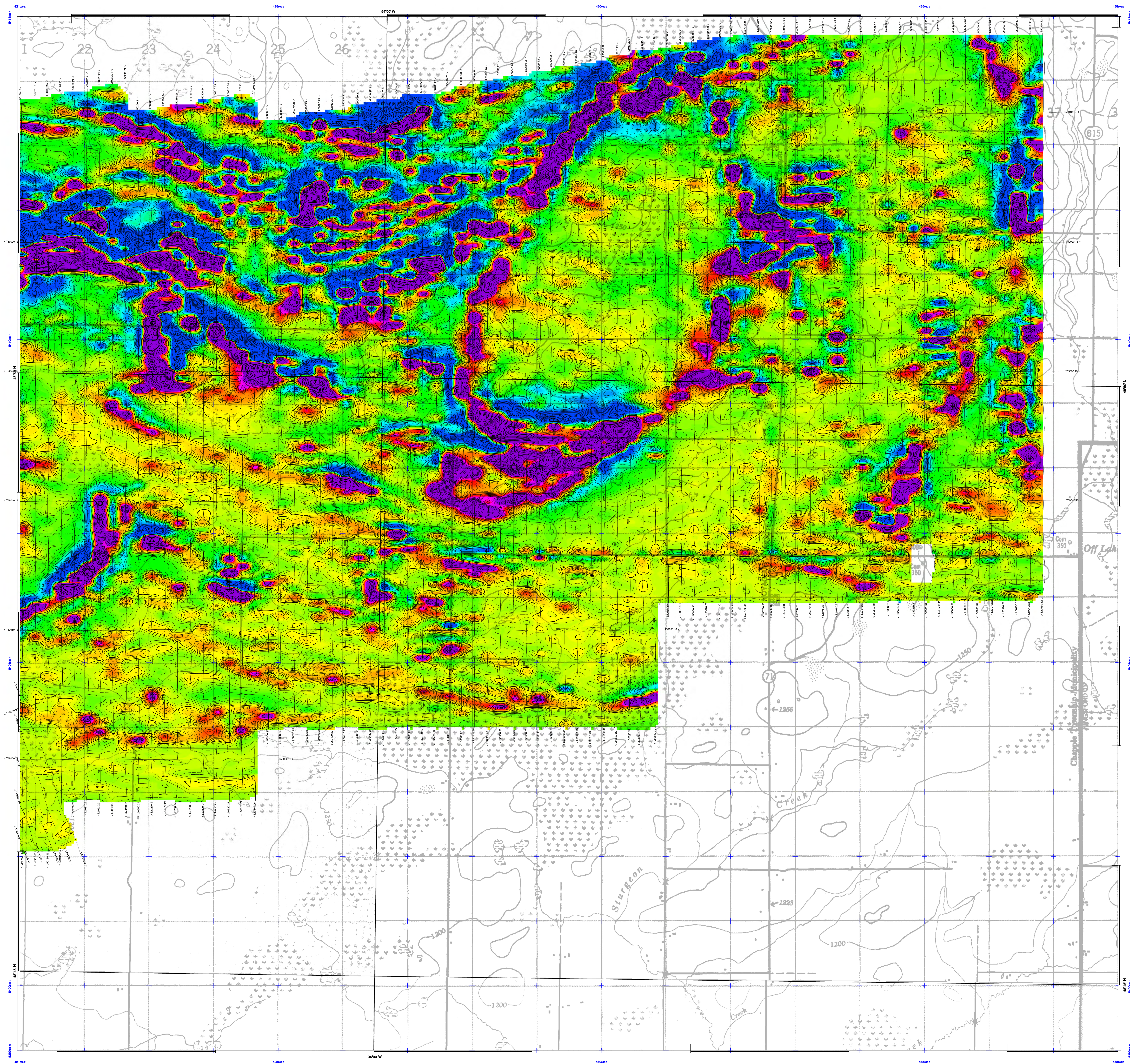


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**CALCULATED HORIZONTAL
MAGNETIC GRADIENT**

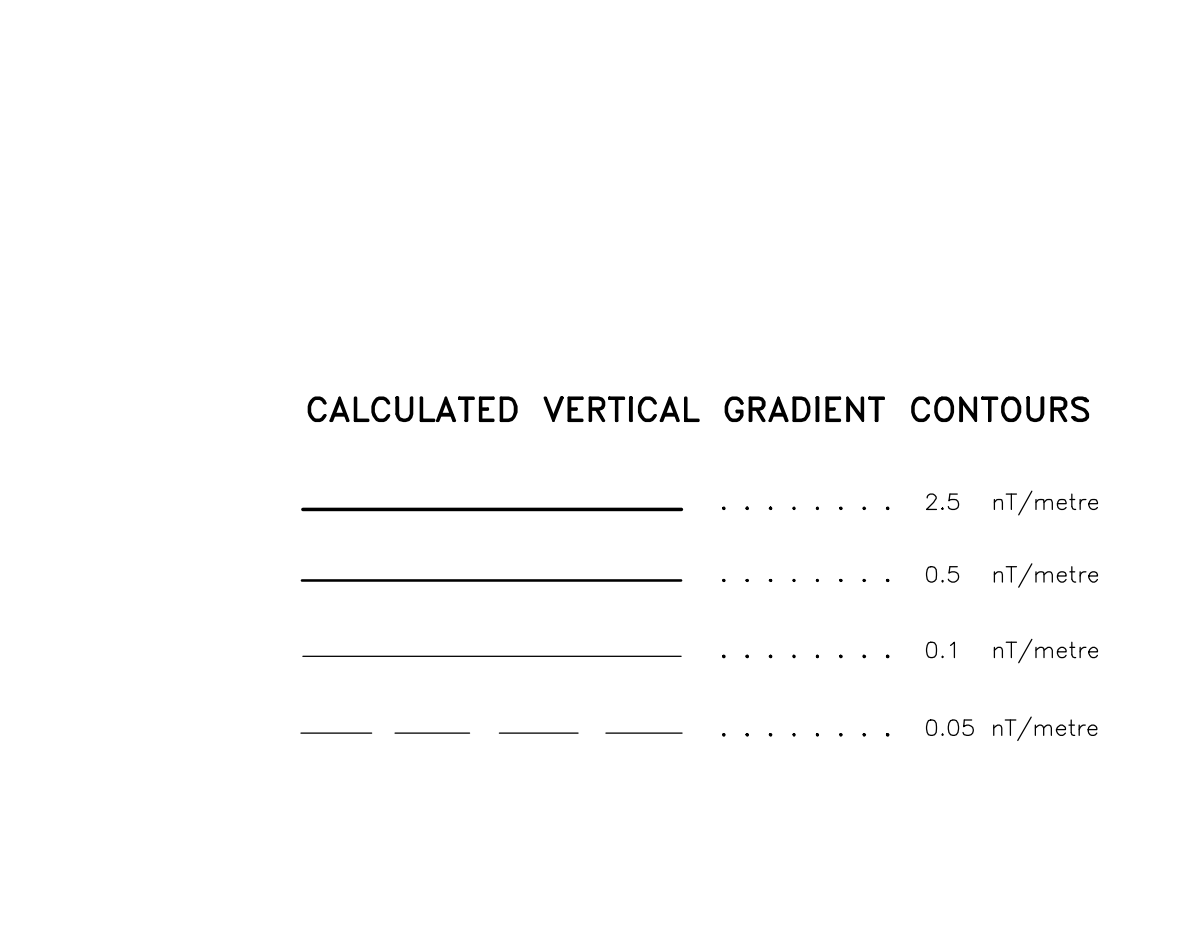
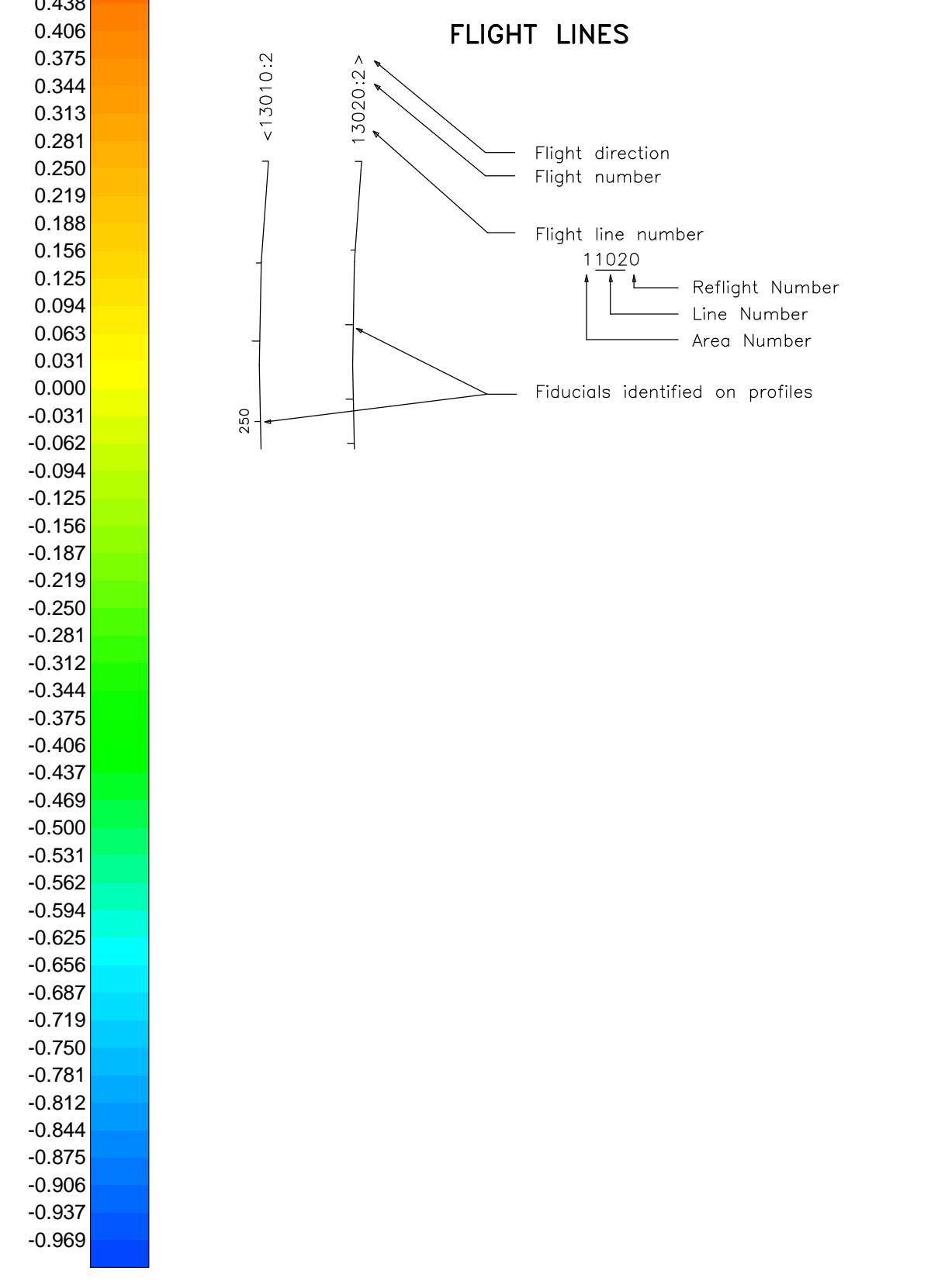
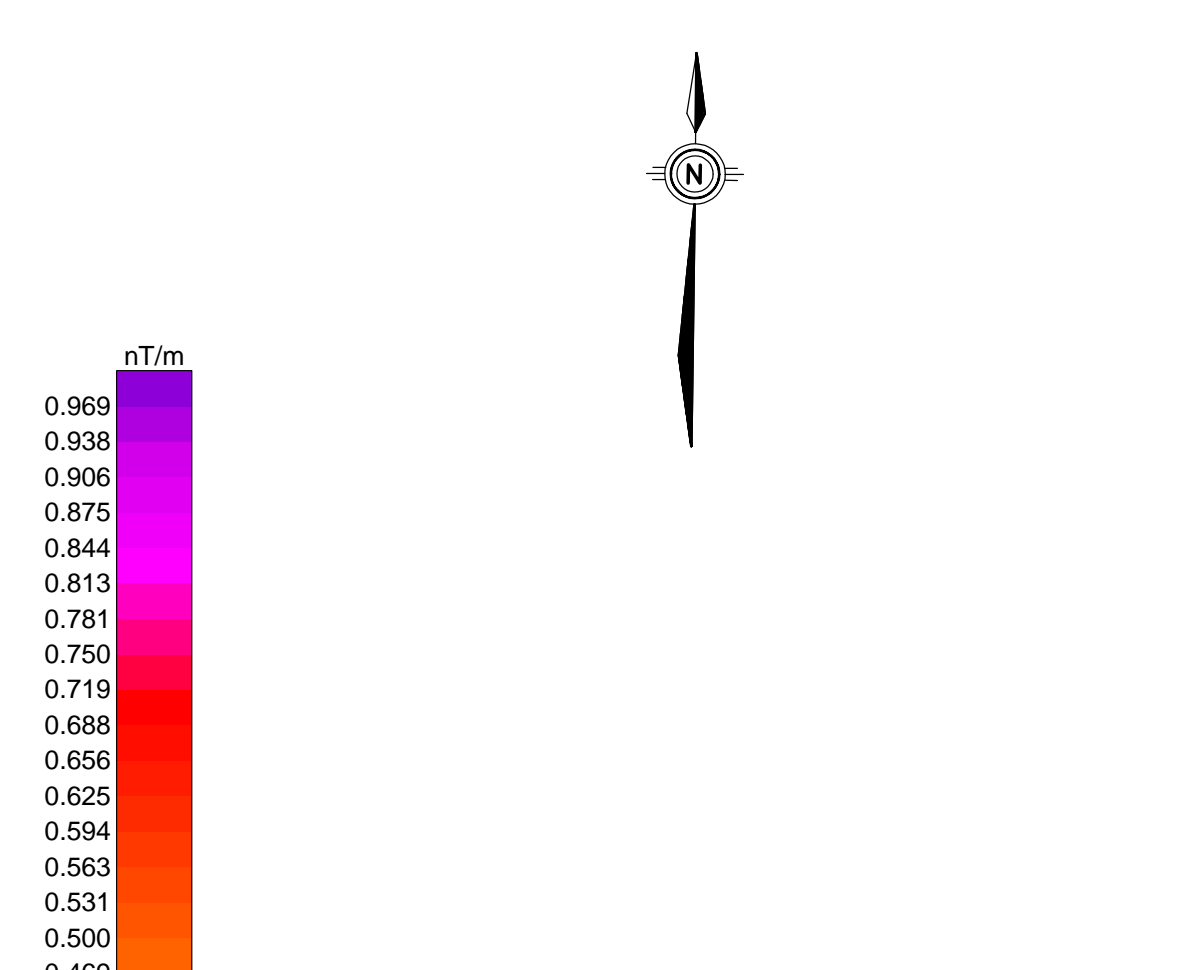
FUGRO HELITEM SURVEY	NTS: 52 C/13; 52 D/9/15,16	GEOPHYSICIST:
DATE: JULY, 2011	JOB: 11021	SHEET: 3
Fugro Airborne Surveys		

Scale 1:20 000



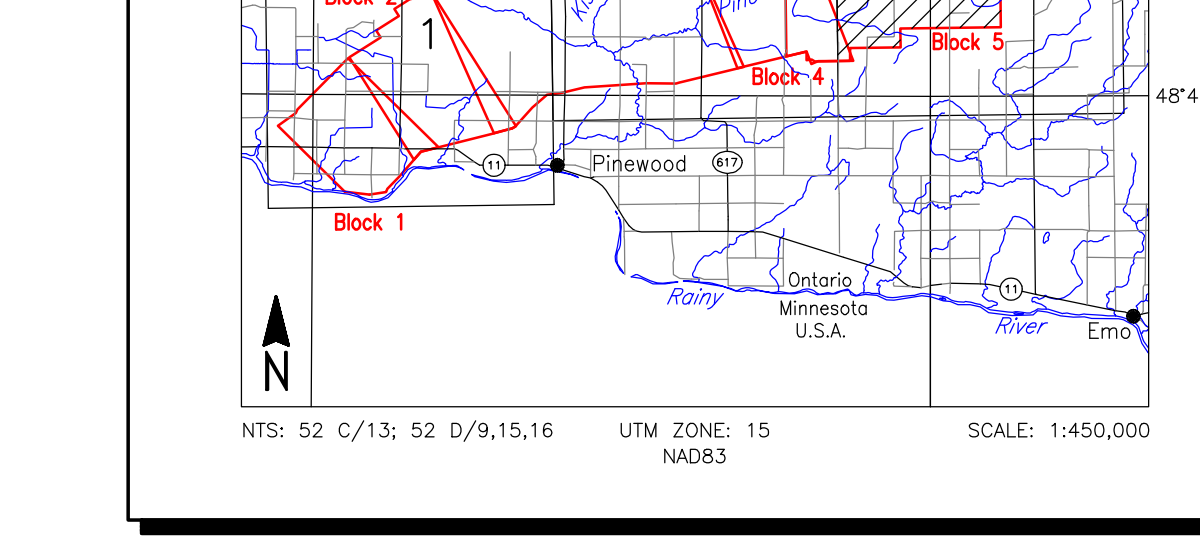
TECHNICAL SUMMARY

Navigation	Differentially-corrected GPS
Data reduction grid interval	25 m
Terrain clearance	Helicopter 85 m HELITEM receiver 62 m HELITEM transmitter 35 m Magnetometer 35 m
Data sampling interval	0.1 seconds
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	HELITEM 30 channel multicoil system
Transmitter installation	Vertical axis loop slung below helicopter
Transmitter loop area	738 m ²
Transmitter turns	2
Transmitter base frequency	30 Hz
Pulse width	4 ms
Off-time period	13 ms
Receiver installation	Slung below helicopter
Receiver coils	Multiple coils in X,Y,Z orientation
Receiver sample rate	0.1 seconds
Digital acquisition	Fugro Airborne Surveys HELIMAS system



CALCULATED VERTICAL GRADIENT CONTOURS

—————	2.5 nT/metre
—————	0.5 nT/metre
—————	0.1 nT/metre
—————	0.05 nT/metre



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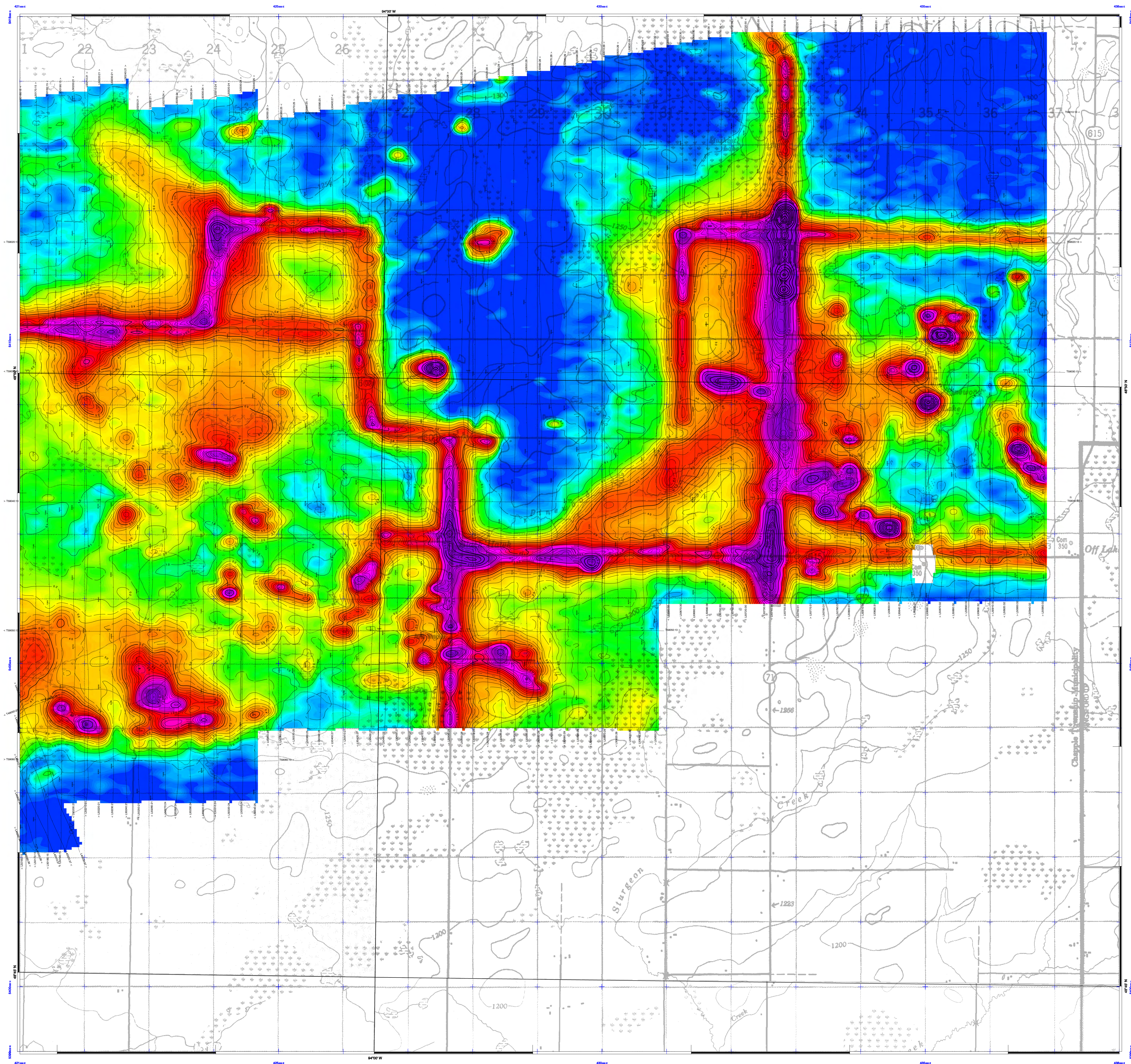
CALCULATED VERTICAL MAGNETIC GRADIENT

FUGRO HELITEM SURVEY	NTS: 52 C/13; 52 D/9/15.16	GEOPHYSICIST:
DATE: JULY, 2011	JOB: 11021	SHEET: 3

Fugro Airborne Surveys

Scale 1:20 000

FUGRO AIRBORNE SURVEYS



TECHNICAL SUMMARY

Navigation: Differentially-corrected GPS
 Data reduction grid interval: 25 m
 Terrain clearance: Helicopter 85 m, HELITEM receiver 62 m, HELITEM transmitter 35 m, Magnetometer 35 m

Data sampling interval: 0.1 second
 Magnetometer / sensitivity: Cesium / 0.01 nT
 Electromagnetic system: HELITEM 30 channel multicoil system
 Transmitter installation: Vertical axis loop slung below helicopter
 Transmitter loop area: 738 m²
 Transmitter turns: 2
 Transmitter base frequency: 30 Hz
 Pulse width: 4 ms
 Off-time period: 13 ms
 Receiver installation: Slung below helicopter
 Receiver coils: Multiple coils in X/Y/Z orientation
 Receiver sample rate: 0.1 seconds
 Digital acquisition: Fugro Airborne Surveys HELIDAS system

FLIGHT LINES

Flight direction
 Flight number
 Flight line number
 11020
 114
 Reflight Number
 Line Number
 Area Number
 Fiducials identified on profiles

EM AMPLITUDE CONTOURS

250 nT/second
 50 nT/second
 10 nT/second
 5 nT/second

LOCATION MAP

NTS: S2 C/13, S2 D/9/15,16 UTM ZONE: 15 NUBS3 SCALE: 1:450,000

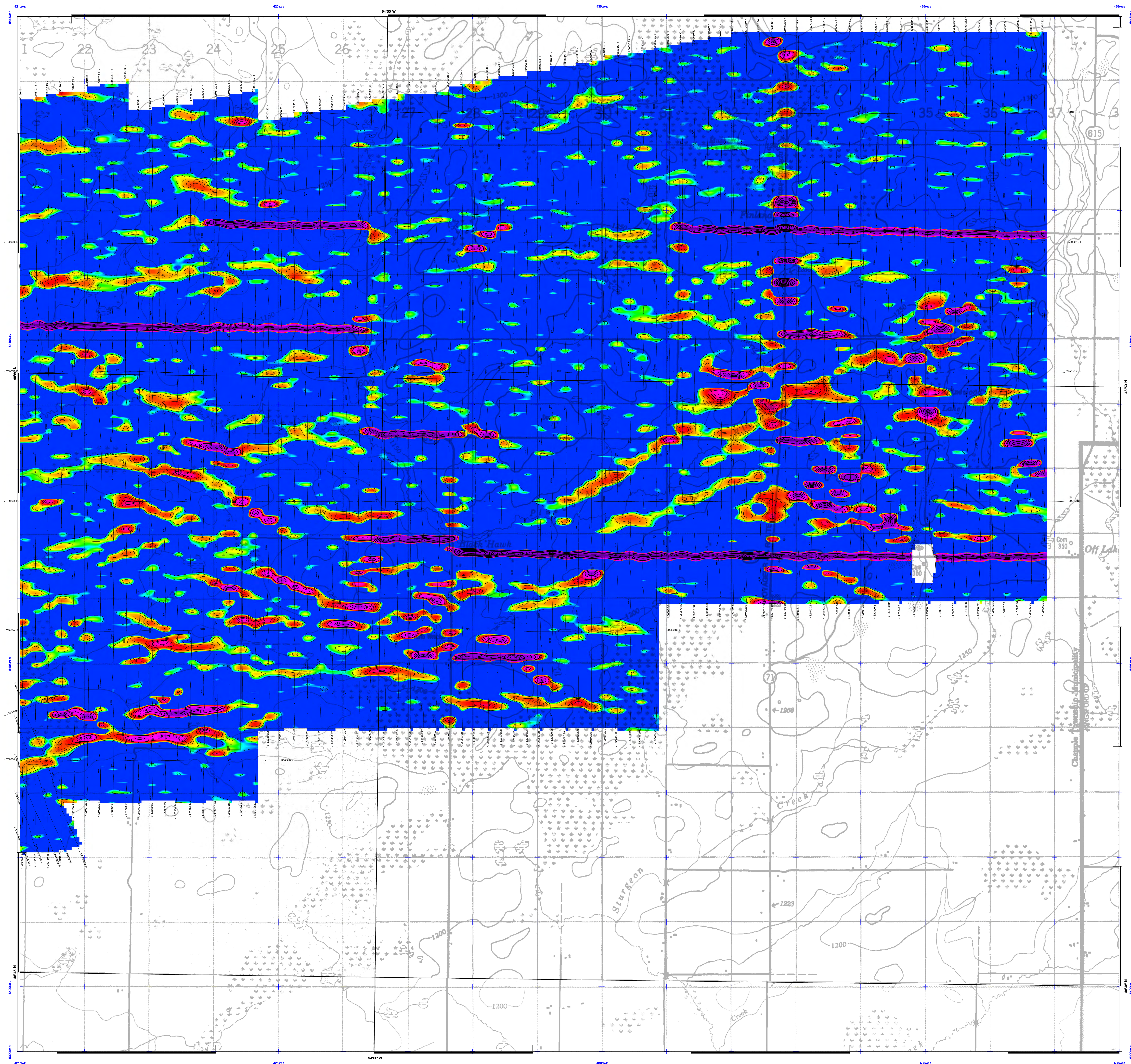
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RAINY RIVER BLOCKS, ONTARIO

EM AMPLITUDE dB/dt Z COMPONENT
 at 1.721 ms from the end of pulse

FUGRO HELITEM SURVEY	NTS: S2 C/13, S2 D/9/15,16	GEOPHYSICIST:
DATE: JULY, 2011	JOB: 11021	SHEET: 3
Fugro Airborne Surveys		

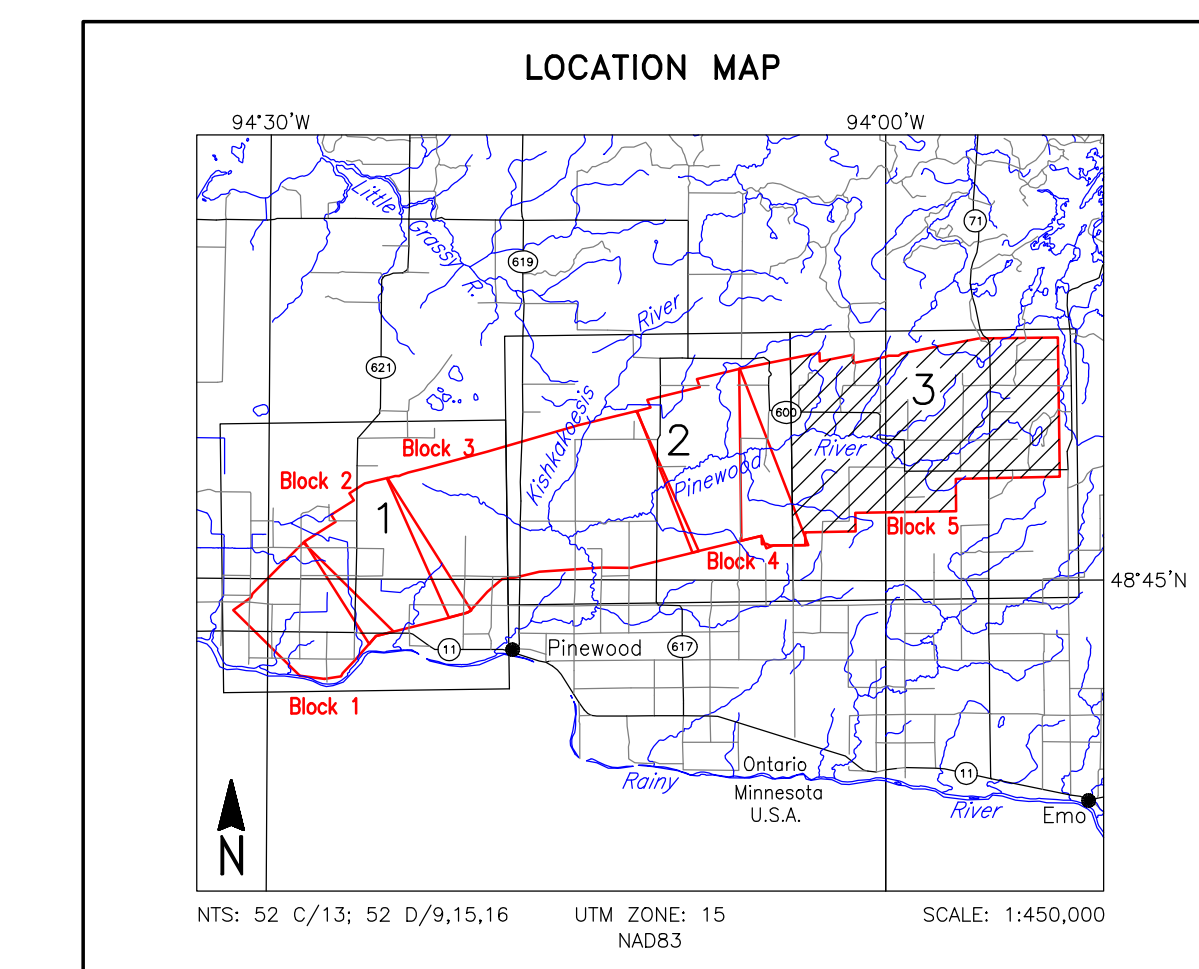
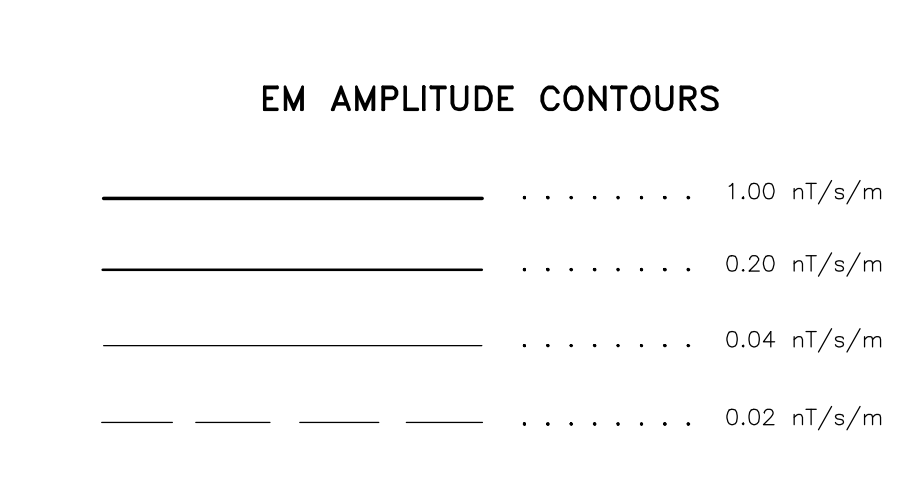
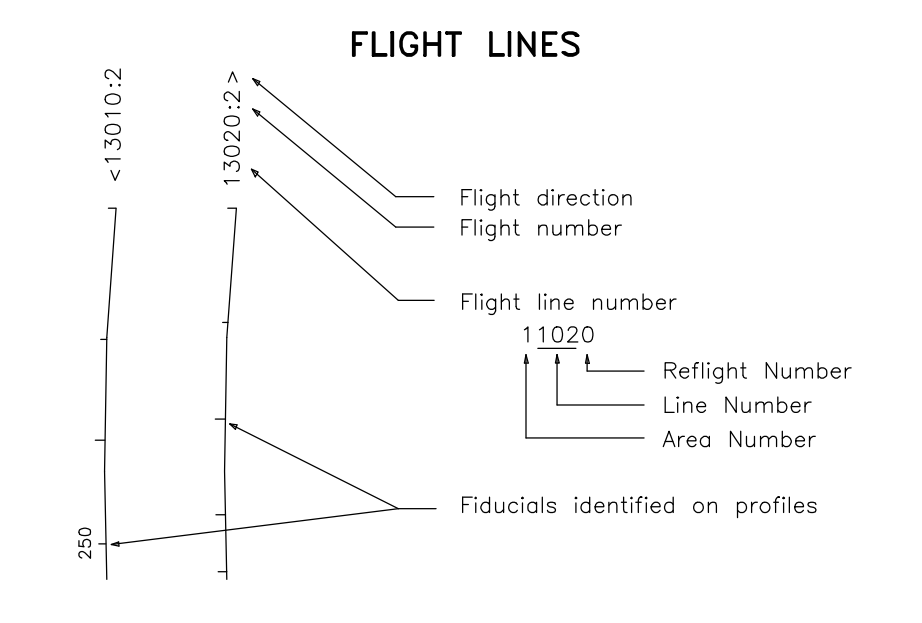
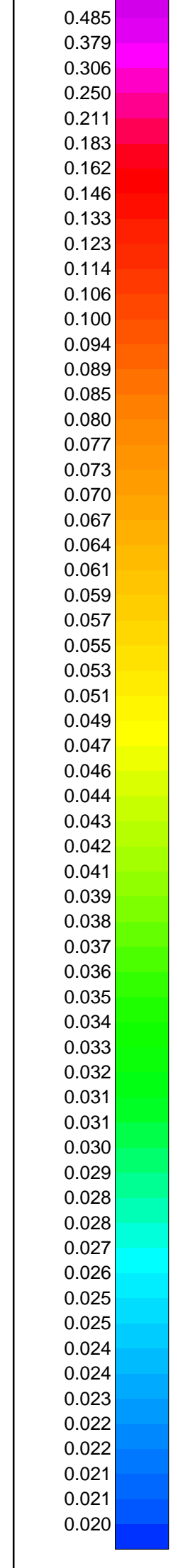
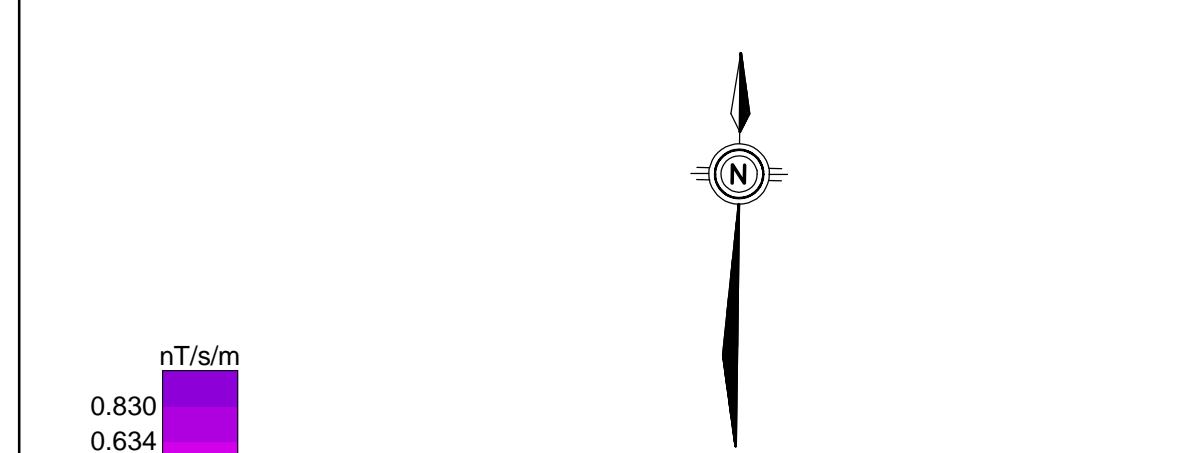
Scale 1:20 000

FUGRO AIRBORNE SURVEYS



TECHNICAL SUMMARY

Navigation	Differentially-corrected GPS
Data reduction grid interval	25 m
Terrain clearance	Helicopter 85 m HELTEM receiver 62 m HELTEM transmitter 35 m Magnetometer 35 m
Data sampling interval	0.1 seconds
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	HELTEM 30 channel multicoil system
Transmitter installation	Vertical axis loop slung below helicopter
Transmitter loop area	738 m ²
Transmitter turns	2
Transmitter base frequency	30 Hz
Pulse width	4 ms
Off-time period	13 ms
Receiver installation	Slung below helicopter
Receiver coils	Multiple coils in X/Y/Z orientation
Receiver sample rate	0.1 seconds
Digital acquisition	Fugro Airborne Surveys HELTEM system



RAINY RIVER RESOURCES LTD.
RAINY RIVER BLOCKS, ONTARIO

EM AMPLITUDE dB/dt FRASER FILTERED X COMPONENT
at 1.721 ms from the end of pulse

FUGRO HELTEM SURVEY	NTS: 52 C/13, 52 D/9/15,16	GEOPHYSICIST:
DATE: JULY, 2011	JOB: 11021	SHEET: 3
Fugro Airborne Surveys		