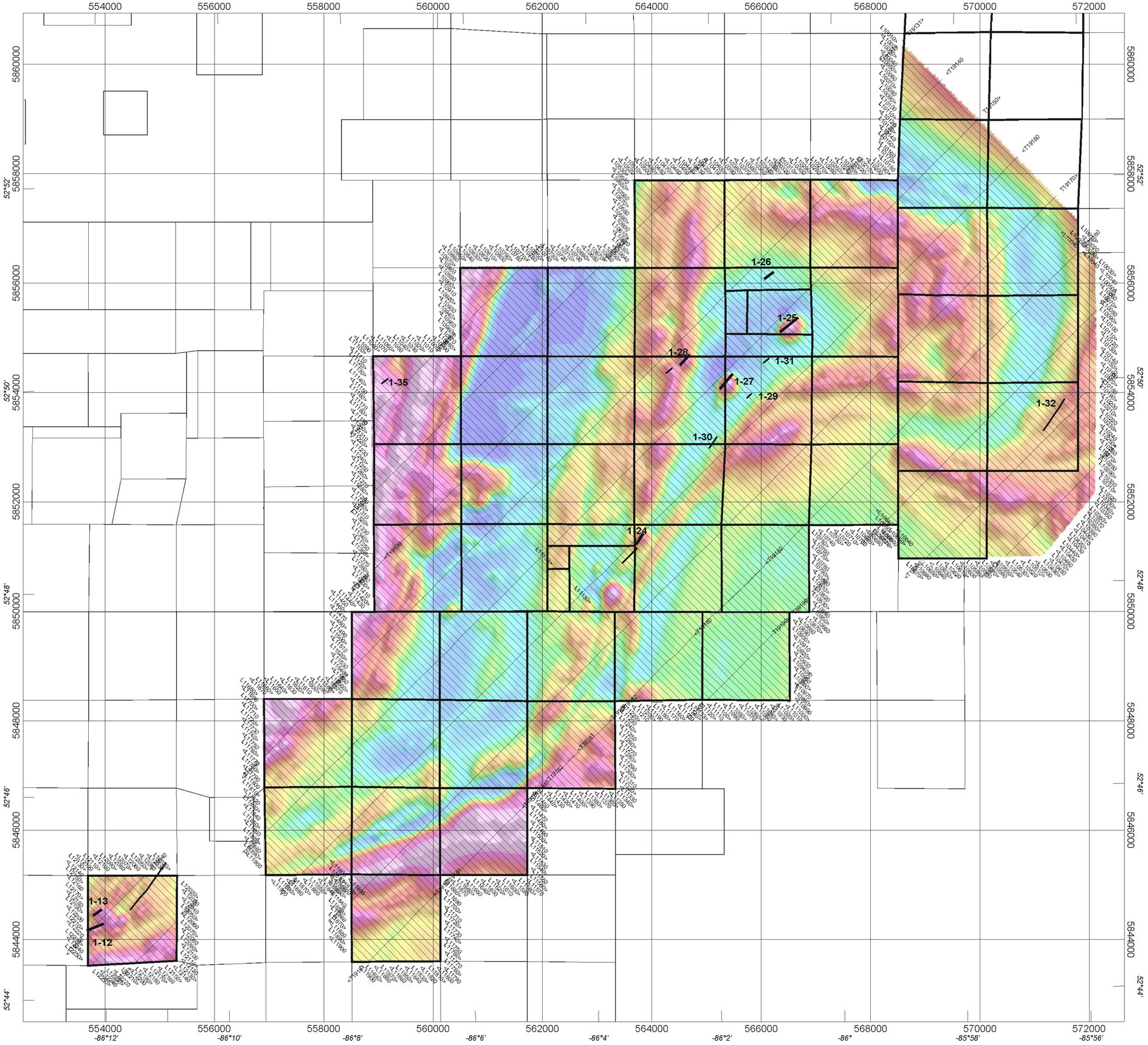


59784
59322
59001
58820
58700
58629
58574
58530
58490
58456
58430
58406
58384
58363
58344
58330
58317
58305
58293
58283
58273
58263
58254
58247
58240
58233
58226
58218
58211
58202
58191
58180
58171
58161
58150
58136
58122
58091

Total Magnetic Field
(nT)

Legend

1-25 Conductor axis with report reference

Region of high conductivity

Scale 1:50000

1000 0 1000 2000 3000

metres

NAD83 / UTM zone 16N

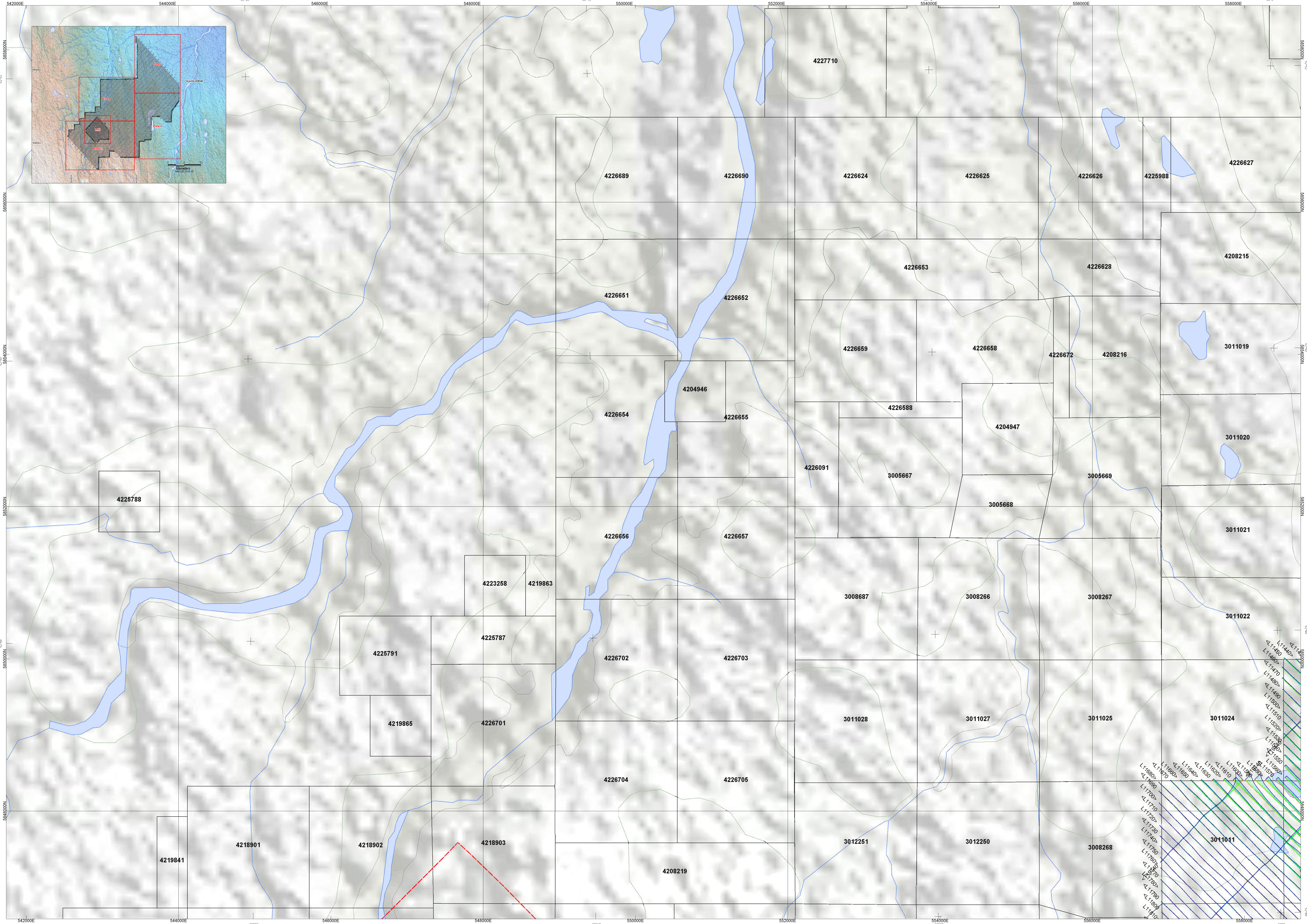
Spider / KWG / UC Resources Ltd.

Eagle One Project

AeroTEM Survey - Block 1

Preliminary Raw TMI and Interpretation

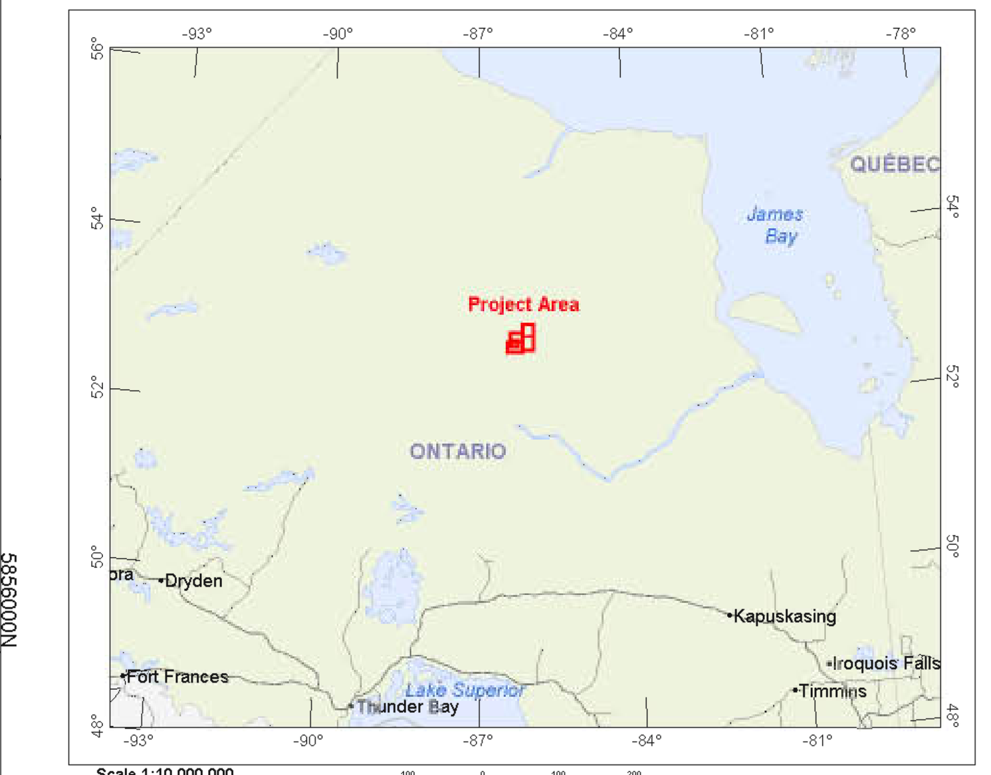
Scott Hogg & Associates Ltd
Geophysical Services
shageophysics.com



Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.



Scale 1:10,000,000

AeroTEM Profiles

positive excursion to top and right, 1mm=100nT/s

Z1 Off-Time Channel
Z2 Off-Time Channel
Z3 Off-Time Channel
Z4 Off-Time Channel
Z5 Off-Time Channel
Z6 Off-Time Channel
Z7 Off-Time Channel
Z8 Off-Time Channel
Z9 Off-Time Channel
Z10 Off-Time Channel
Z11 Off-Time Channel

Outline of Infill Area

Off-Time Anomaly Symbols

>50S .... ●
35-50S .... ◕
20-35S .... ◑
10-20S .... ◔
5-10S .... ⊕
1-5S .... ○
<1S .... ×

anomaly label A, 125 decay constant (μs)
thicK/thiN source K, 36 off-time conductance (S)

SURVEY SPECIFICATIONS:
Survey flown: October 15 to November 26, 2007
Traverse line spacing: 100
Traverse line direction: 135° Azimuth (NW-SE)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Double Eagle Block, Plate 1

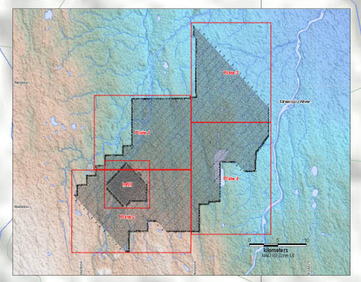
NTS 043D16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel (905) 672-9129 Fax (905) 672-7083
www.aeroquest.ca

February 2008

EM DoubleEagle 1

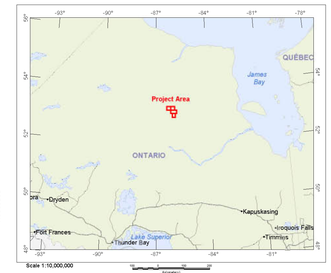
EM_20k_DoubleEagle1 map, AQL Job no 08055



The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada "Atlas of Canada Base Maps"

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.

Grid North
NAD83-Zone16



TMI Contour Levels
(exact levels)

58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000

Outline of Infill Area

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

59855
59303
58984
58805
58679
58601
58544
58500
58462
58431
58404
58381
58360
58342
58327
58313
58302
58291
58281
58271
58262
58253
58245
58238
58230
58221
58213
58203
58189
58174
58158
58144
58125
58105
58086
58064
58042
57998

TMI
nT

anomaly label A 125 decay constant (µs)
K 36
thickKtN source off-time conductance (S)

SURVEY SPECIFICATIONS:
Survey flown: October 15 to November 26, 2007
Traverse line spacing: 100
Traverse line direction: 135° Azimuth (WNW-ESE)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(metres)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

Double Eagle Block, Plate 1

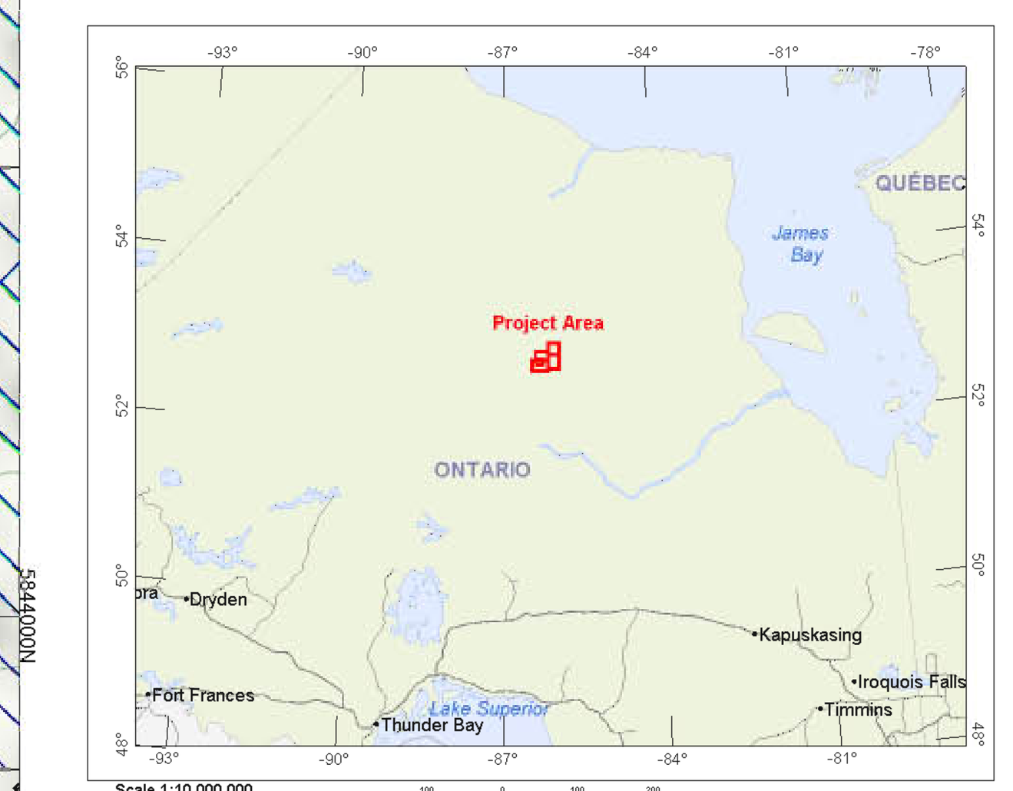
NTS 043D16

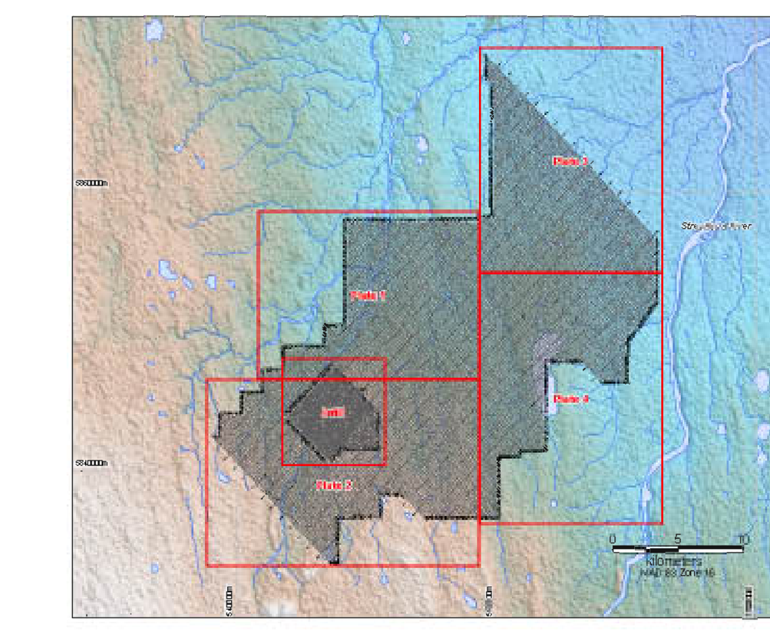
AEROQUEST INTERNATIONAL LIMITED & ARIANE SERVICES
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7083
www.aeroquest.ca

February 2008

TMI DoubleEagle 1

TM_20k_DoubleEagle1.map(_AQL_Job no. 08055





Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.

AeroTEM Profiles

positive excursion to top and right, 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Outline of Infill Area

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A 125 decay constant (µs)
thicK/thiN source K 36 off-time conductance (S)

SURVEY SPECIFICATIONS:
- Survey flown: October 15 to November 26, 2007
- Traverse line spacing: 100
- Traverse line direction: 135° Azimuth (NW-SE)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
- Major Axis: 6378137.000
- Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Double Eagle Block, Plate 2

NTS 043D09, 16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7083
www.aeroquest.ca

February 2008

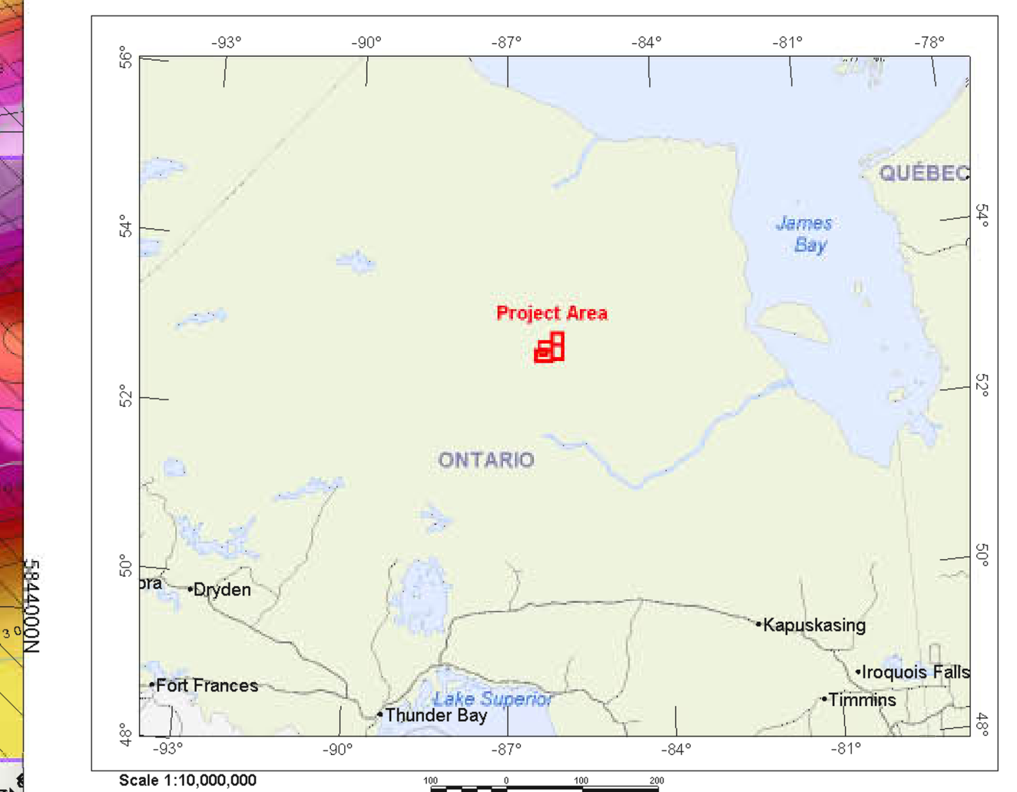
EM DoubleEagle 2

EM_20k_DoubleEagle2 map, AQL Job no: 08055

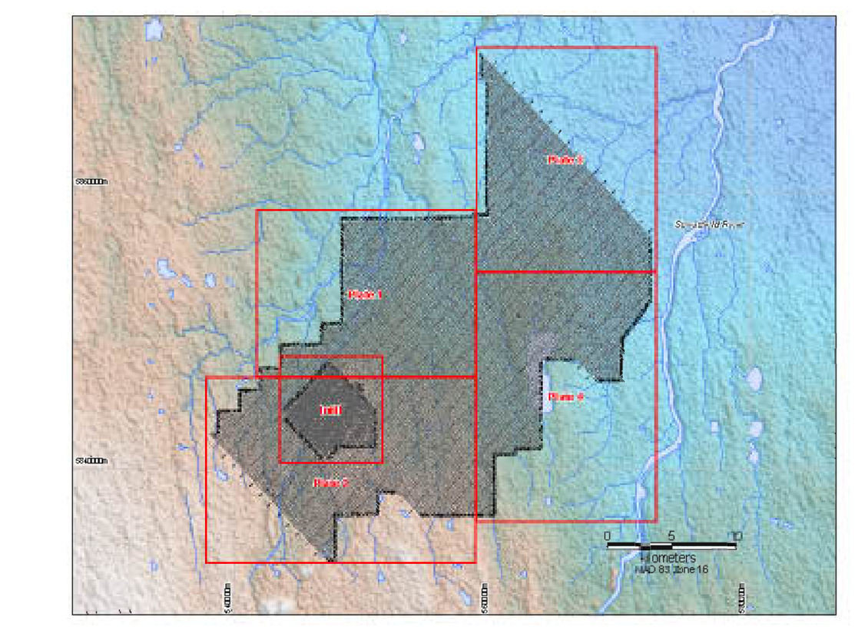
Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.



Scale 1:10,000,000



TMI Contour Levels
(exact levels)

58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000

Outline of Infill Area

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

anomaly label A, decay constant (µs) 125
thicK/thiN source K, off-time conductance (S) 36

TMI
nT

59855
59303
58984
58805
58679
58601
58544
58500
58462
58431
58404
58381
58360
58342
58327
58313
58302
58291
58281
58271
58262
58253
58245
58238
58230
58221
58213
58203
58189
58174
58158
58144
58125
58105
58086
58064
58042
57998

SURVEY SPECIFICATIONS:
Survey flown: October 15 to November 26, 2007
Traverse line spacing: 100
Traverse line direction: 135° Azimuth (NW-SE)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird

NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191

MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000
250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY
Double Eagle Block, Plate 2

NTS 043D09, 16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel (905) 672-9129 Fax (905) 672-7083
www.aeroquest.ca

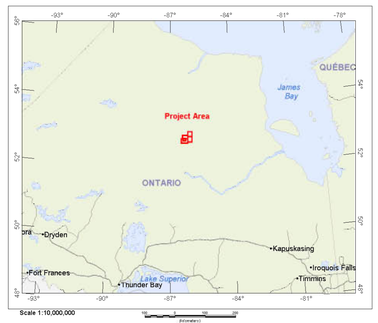
February 2008

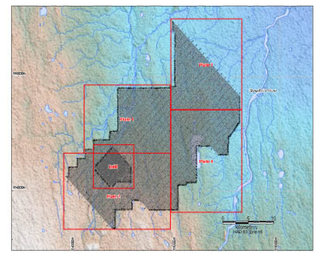
TMI DoubleEagle 2

Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.





AeroTEM Profiles
positive excursion to top and right, 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A K decay constant (µs) 125 36 off-time conductance (S)
thicK/thiN source

SURVEY SPECIFICATIONS:
Survey flown: October 15 to November 26, 2007
Traverse line spacing: 100
Traverse line direction: 135° Azimuth (NW-SE)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Double Eagle Block, Plate 3

NTS 043D16, 043C13

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-0129 Fax: (905) 672-7093
www.aeroquest.ca

February 2008

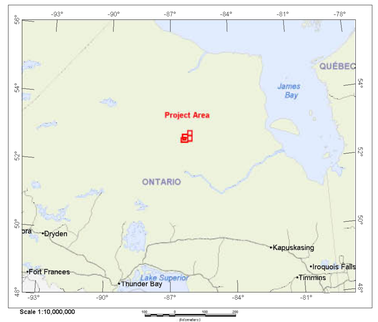
EM DoubleEagle 3

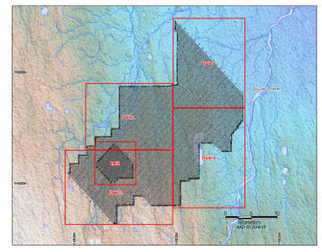
EM_20k_DoubleEagle3 map, AGL, Job no: 08055

Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.





59855
59303
58984
58805
58679
58601
58544
58500
58462
58431
58404
58381
58360
58342
58327
58313
58302
58291
58281
58271
58262
58253
58245
58238
58230
58221
58213
58203
58189
58174
58158
58144
58125
58105
58086
58064
58042
57996

TMI
nT

TMI Contour Levels
(exact levels)

58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

anomaly label A K 125 decay constant (µs)
thicK/thiN source 36 off-time conductance (S)

SURVEY SPECIFICATIONS:
Survey flown: October 15 to November 26, 2007
Traverse line spacing: 100
Traverse line direction: 1135° Azimuth (NW-SE)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

Double Eagle Block, Plate 3

NTS 043D16, 043C13

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-6129 Fax: (905) 672-7093
www.aeroquest.ca

February 2008

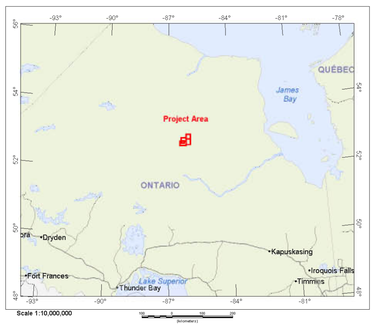
TMI DoubleEagle 3

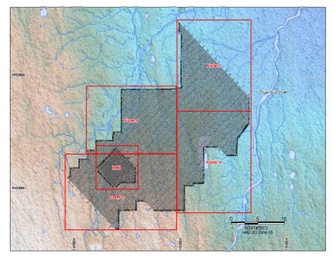
TMI_20k_DoubleEagle3.map, AGL, Job no: 08055

Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2009.





AeroTEM Profiles
positive excursion to top and right, 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label (A) — decay constant (µs) (125)
thicK/thiN source (K) — off-time conductance (S) (36)

SURVEY SPECIFICATIONS:
- Survey flown: October 15 to November 26, 2007
- Traverse line spacing: 100
- Traverse line direction: 135° Azimuth (NW-SE)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
- Major Axis: 6378137.000
- Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(metres)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Double Eagle Block, Plate 4

NTS 043D09, 16, 043C12, 13

7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel. (905) 672-9129 Fax. (905) 672-7083
www.aeroquest.ca

February 2008

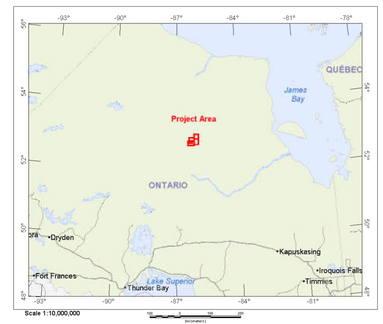
EM DoubleEagle 4

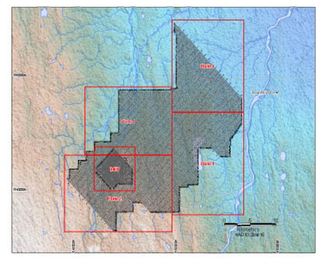
EM_2Div_DoubleEagle4 map_AQL Job no 08055

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Double Eagle Block, McFaulds Lake Area, Ontario', by Aeroquest Limited, February 2008.

Grid North
NAD83-Zone16





58855
59303
59984
58805
58679
58601
58544
58500
58462
58431
58404
58381
58360
58342
58327
58313
58302
58291
58281
58271
58262
58253
58245
58238
58230
58221
58213
58203
58189
58174
58158
58144
58125
58105
58086
58064
58042
57998

TMI
nT

TMI Contour Levels
(exact levels)

58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

anomaly label — decay constant (µs)
thickA/thiN source — off-time conductance (S)

SURVEY SPECIFICATIONS:
- Survey flown: October 15 to November 26, 2007
- Traverse line spacing: 100
- Traverse line direction: 135° Azimuth (NW-SE)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
  - Installation: mounted on EM bird
  - Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
  - Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

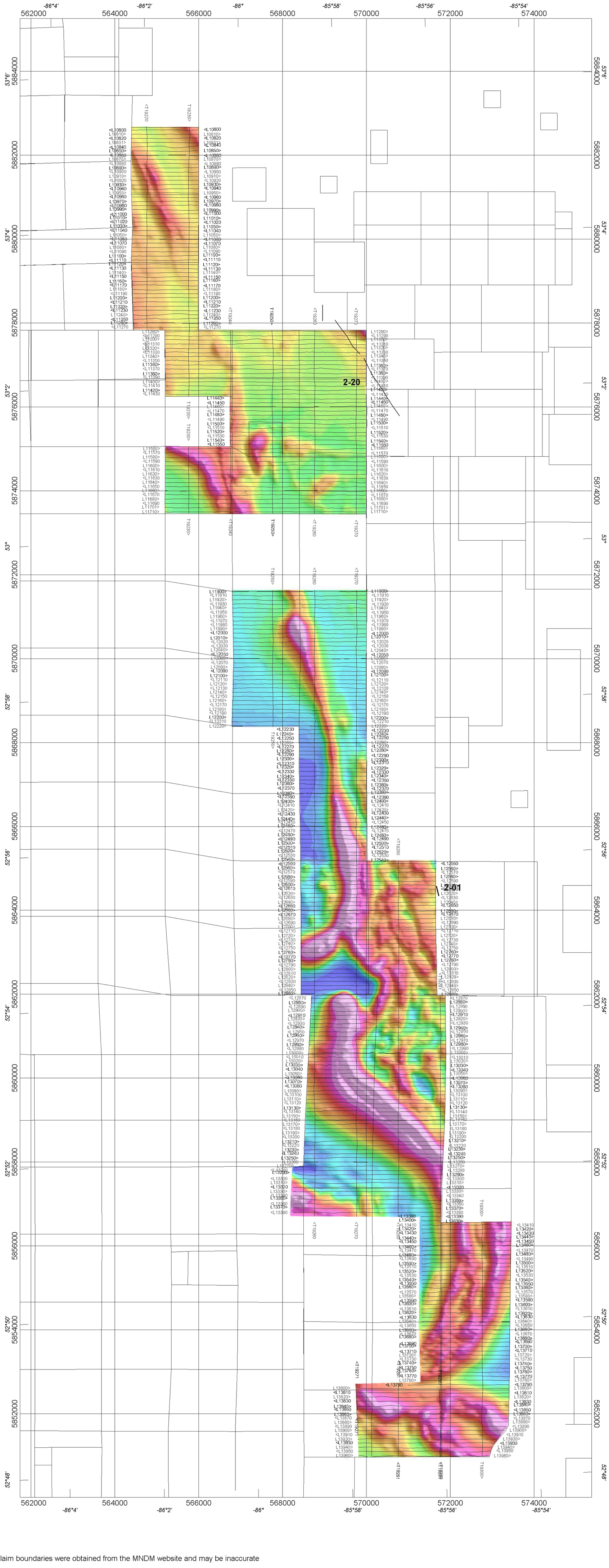
Double Eagle Block, Plate 4

NTS 043D09, 16, 043C12, 13

7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel (905) 672-9129 Fax (905) 672-7083
www.aeroquest.ca

February 2008

TMI DoubleEagle 4



Legend

2-01 Conductor axis with report reference

Region of high conductivity

Scale 1:50000

500 0 500 1000 1500 2000 2500 3000 3500

metres

NAD83 / UTM zone 16N

Contour Intervals: 10, 50 and 250 nT

UC / Spider / KWG Resources Inc.

AeroTEM Survey

McFauld's Lake Area

Preliminary Total Magnetic Field

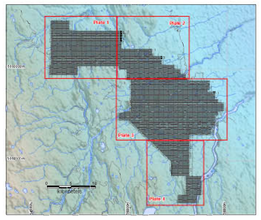
Scott Hogg & Associates Ltd
Geophysical Services
shageophysics.com

Claim boundaries were obtained from the MNDM website and may be inaccurate

Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aeroquest Limited, February 2008.



AeroTEM Profiles

positive excursion to top and right. 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label (A, K) — 125 decay constant (µs) — 36 off-time conductance (S)
thicKAthiN source

SURVEY SPECIFICATIONS:
- Survey flown: November 27 - December 16, 2007
- Traverse line spacing: 100
- Traverse line direction: E-W (Azimuth 90°)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Extension Block, Plate 1

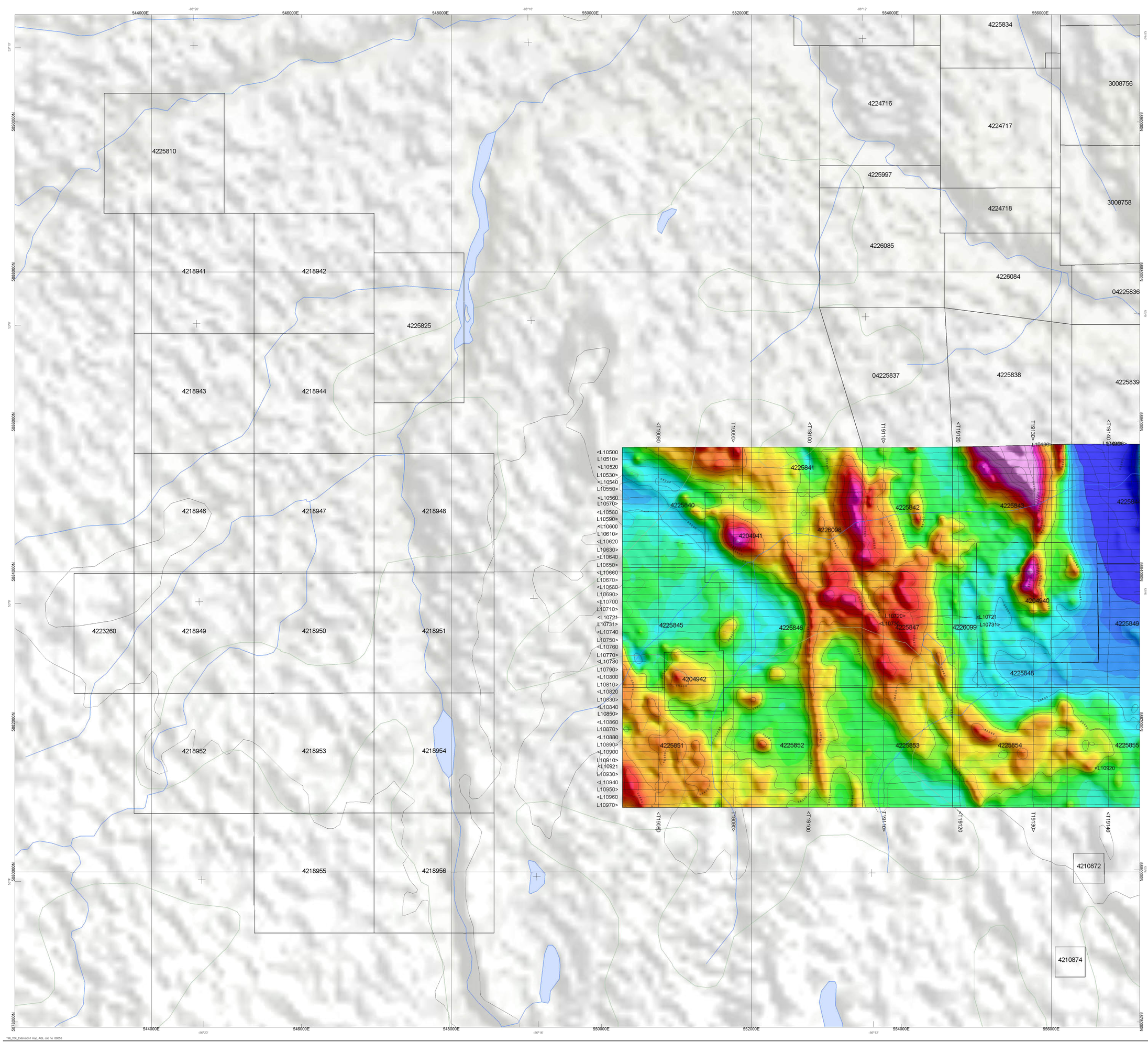
NTS 043E01

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7083
www.aeroquest.ca

February 2008

EM Extension 1

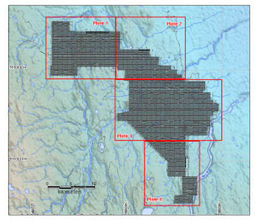
EM_20k_Extension1 map_AQL Job no. 08055



Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aeroquest Limited, February 2008.



TMI Contour Levels

58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

anomaly label
thickA/thiN source
A
K
125 decay constant (µs)
36 off-time conductance (S)

TMI
nT
59174
58933
58779
58681
58606
58553
58513
58485
58463
58444
58426
58411
58396
58383
58372
58359
58349
58339
58330
58321
58313
58306
58298
58290
58282
58274
58265
58257
58248
58238
58228
58217
58204
58191
58174
58155
58130
58101

SURVEY SPECIFICATIONS:
Survey flown: November 27 - December 16, 2007
Traverse line spacing: 100
Traverse line direction: E-W (Azimuth 90°)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

Extension Block, Plate 1

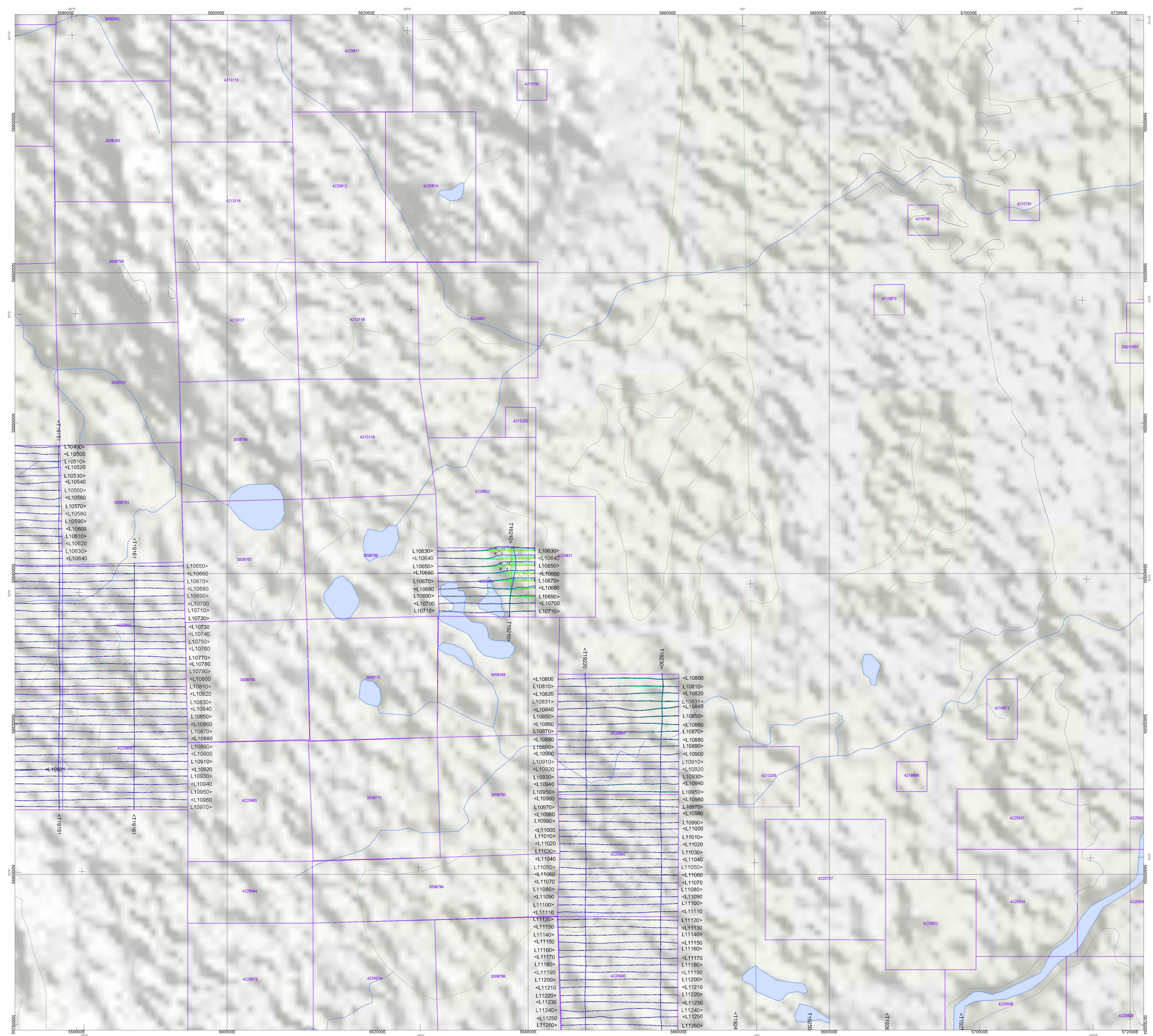
NTS 043E01

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 673-9129 Fax: (905) 673-7083
www.aeroquest.ca

February 2008

TMI Extension 1

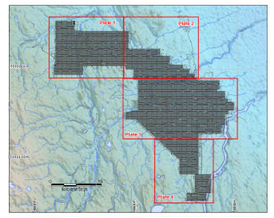
TMI_20k_Extension1 map, AQL Job no. 08055



Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aerquest Limited, February 2008.



AeroTEM Profiles

positive excursion to top and right, 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label (A, K) — thickA/thiN source — decay constant (125 µs) — off-time conductance (36 S)

SURVEY SPECIFICATIONS:
- Survey flown: November 27 - December 16, 2007
- Traverse line spacing: 100
- Traverse line direction: E-W (Azimuth 90°)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meter s)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Extension Block, Plate 2

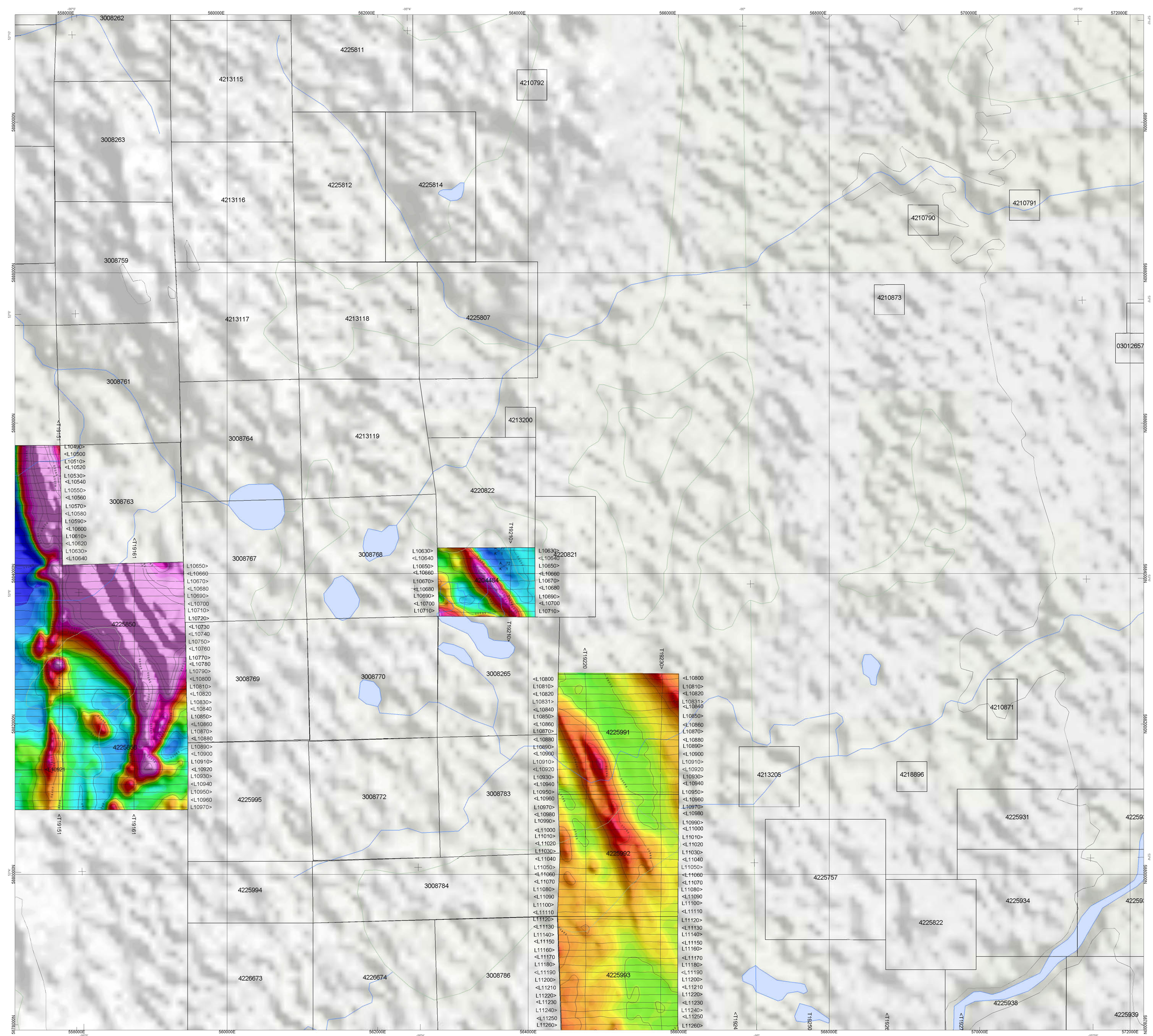
NTS 043E01

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel (905) 673-9129 Fax (905) 673-7085
www.aerquest.ca

February 2008

EM Extension 2

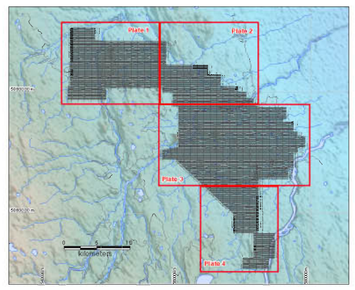
EM_20k_Extension2 map_AGL_Job no. 08055


3008262
4225811
4213115
4210792
3008263
4225812
4225814
4213116
3008759
4210790
4210791
4213117
4213118
4225807
4210873
03012657
3008761
4213200
3008764
4213119
3008763
4220822
3008767
3008768
4220821
4204484
4225850
3008769
3008770
3008265
4225991
4210871
4225856
4213205
4218896
3008772
3008783
4225995
4225992
4225931
4225757
4225822
4225934
3008784
4225994
3008786
4226673
4226674
4225993
4225938
4225939
T19151
T19161
T19210
T19220
T19230
T19240
T19250
T19260
T19270
L10490>
<L10500
L10510>
<L10520
L10530>
<L10540
L10550>
<L10560
L10570>
<L10580
L10590>
<L10600
L10610>
<L10620
L10630>
<L10640
L10650>
<L10660
L10670>
<L10680
L10690>
<L10700
L10710>
L10720>
<L10730
<L10740
L10750>
<L10760
L10770>
<L10780
L10790>
<L10800
L10810>
<L10820
L10830>
<L10840
L10850>
<L10860
L10870>
<L10880
L10890>
<L10900
L10910>
<L10920
L10930>
<L10940
L10950>
<L10960
L10970>
<L10980
L10990>
<L11000
L11010>
<L11020
L11030>
<L11040
L11050>
<L11060
L11070>
<L11080
L11090>
<L11100
<L11110
L11120>
<L11130
L11140>
<L11150
L11160>
<L11170
L11180>
<L11190
L11200>
<L11210
L11220>
<L11230
L11240>
<L11250
L11260>
<L10921
A 72
K 1
A 125
K 36
Grid North
NAD83-Zone16
The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'
This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aeroquest Limited, February 2008.
QUÉBEC
ONTARIO
James Bay
Lake Superior
Project Area
Dryden
Fort Frances
Thunder Bay
Kapuskasing
Iroquois Falls
Timmins
Scale 1:10,000,000
Flight 1
Flight 2
Flight 3
Flight 4
TMI Contour Levels
58000
58050
58100
58200
58300
58400
58500
58600
58800
59000
59500
60000
Off-Time Anomaly Symbols
>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S
anomaly label
decay constant (µs)
thickA/thiN source
off-time conductance (S)
59174
58933
58779
58681
58606
58553
58513
58485
58463
58444
58426
58411
58396
58383
58372
58359
58349
58339
58330
58321
58313
58306
58298
58290
58282
58274
58265
58257
58248
58238
58228
58217
58204
58191
58174
58155
58130
58101
TMI
nT
SURVEY SPECIFICATIONS:
Survey flown: November 27 - December 16, 2007
Traverse line spacing: 100
Traverse line direction: E-W (Azimuth 90°)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
scale 1:20,000
250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N
Billiken Management Services Inc.
McFaulds Lake Area, Ontario
TOTAL MAGNETIC INTENSITY
Extension Block, Plate 2
NTS 043E01
AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 673-9129 Fax: (905) 673-7065
www.aeroquest.ca
February 2008
TMI Extension 2
TMI_2Dk_Extension2 map_AQL_Job no. 08055

Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aeroquest Limited, February 2008.



AeroTEM Profiles

positive excursion to top and right, 1mm=100nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label (A) — decay constant (µs)
thickt/thin source (K) — off-time conductance (S)

SURVEY SPECIFICATIONS:
- Survey flown: November 27 - December 16, 2007
- Traverse line spacing: 100
- Traverse line direction: E-W (Azimuth 90º)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

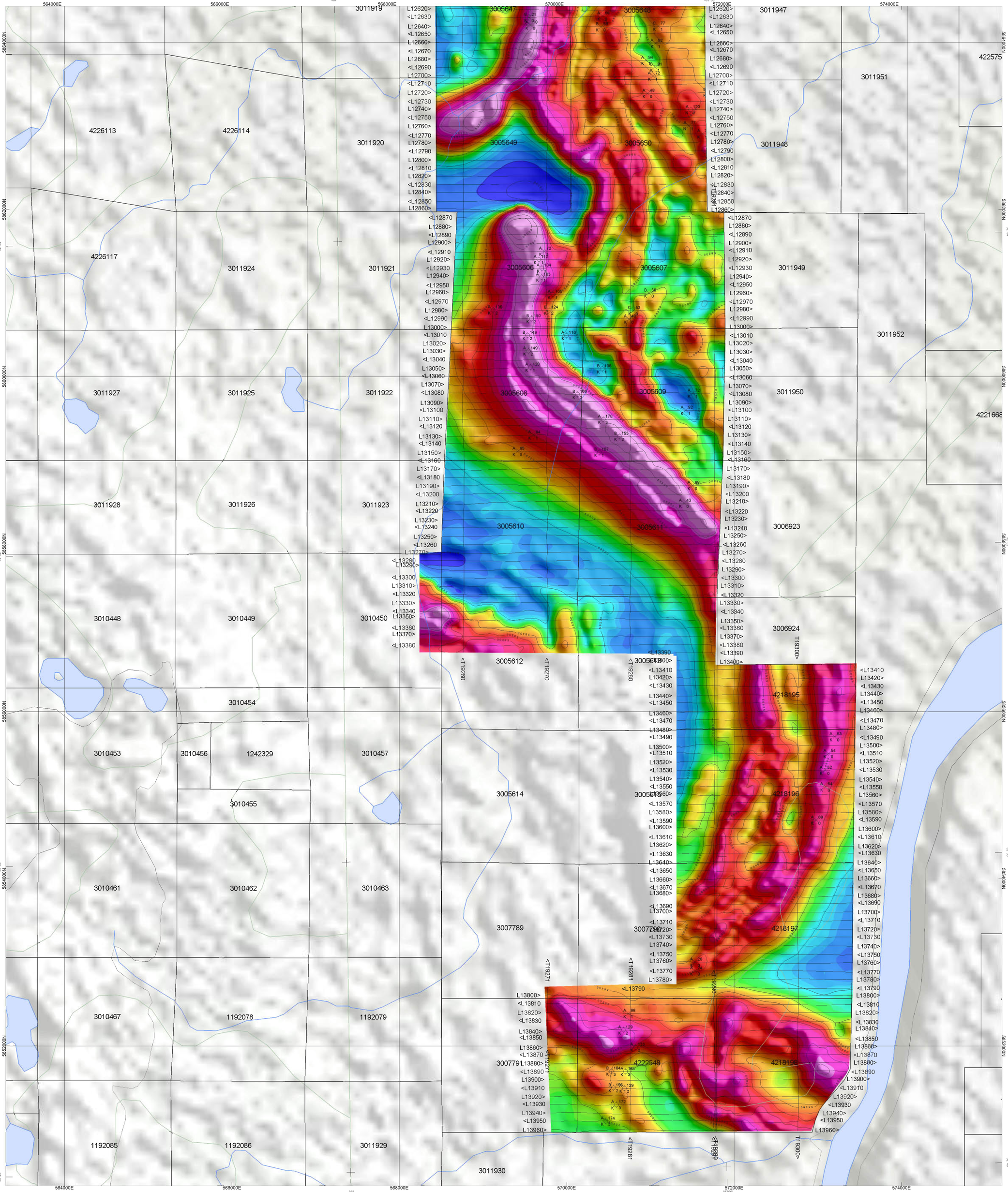
AEROTEM OFF-TIME PROFILES

Extension Block, Plate 4

NTS 043C13, 043D16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9123 Fax: (905) 672-7083
www.aeroquest.ca

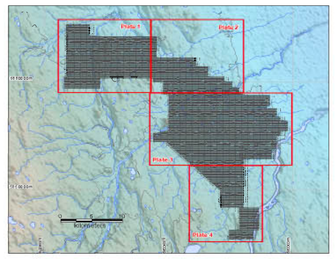
February 2008



Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Extension Block, McFalls Lake Area, Ontario', by Aeroquest Limited, February 2008.



TMI Contour Levels

58000	59174
58050	58933
58100	58779
58200	58681
58300	58606
58400	58553
58500	58513
58600	58485
58800	58463
59000	58444
59500	58426
60000	58411
	58396
	58383
	58372
	58359
	58349
	58339
	58330
	58321
	58313
	58306
	58298
	58290
	58282
	58274
	58265
	58257
	58248
	58238
	58228
	58217
	58204
	58191
	58174
	58155
	58130
	58101

TMI
nT

Off-Time Anomaly Symbols

>50S	●
35-50S	◕
20-35S	◑
10-20S	◔
5-10S	⊕
1-5S	○
<1S	×

anomaly label (A / K) — decay constant (µs) (A) — off-time conductance (S) (K)
thicK/thiN source

SURVEY SPECIFICATIONS:
- Survey flown: November 27 - December 16, 2007
- Traverse line spacing: 100
- Traverse line direction: E-W (Azimuth 90º)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

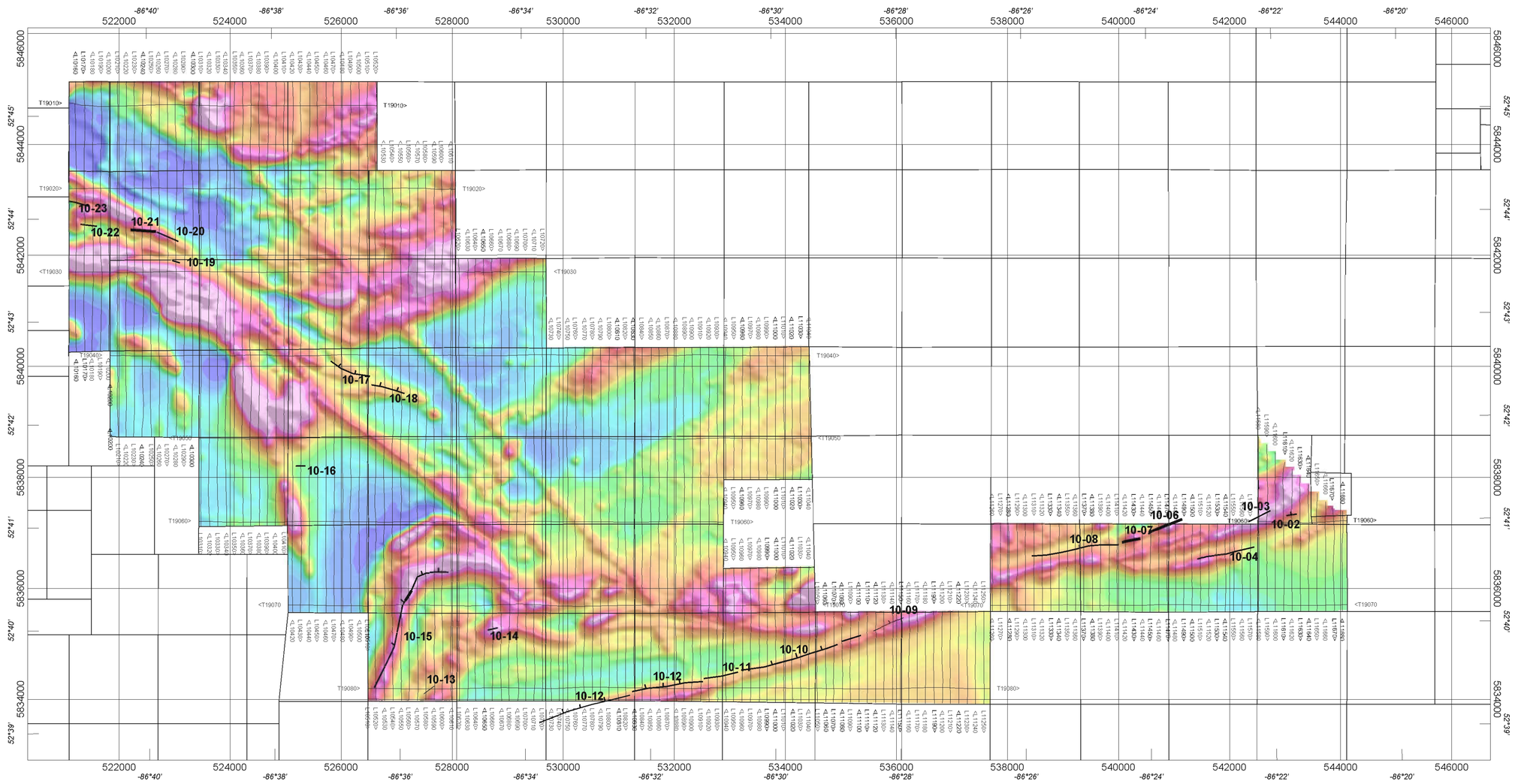
Extension Block, Plate 4

NTS 043C13, 043D16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9123 Fax: (905) 672-7083
www.aeroquest.ca

February 2008

TMI Extension 4



Legend

10-2 Conductor axis with report reference

Region of high conductivity

Scale 1:50000

1000 0 1000 2000 3000

metres

NAD83 / UTM zone 16N

Claim boundaries were obtained from the MNDM website and may be inaccurate

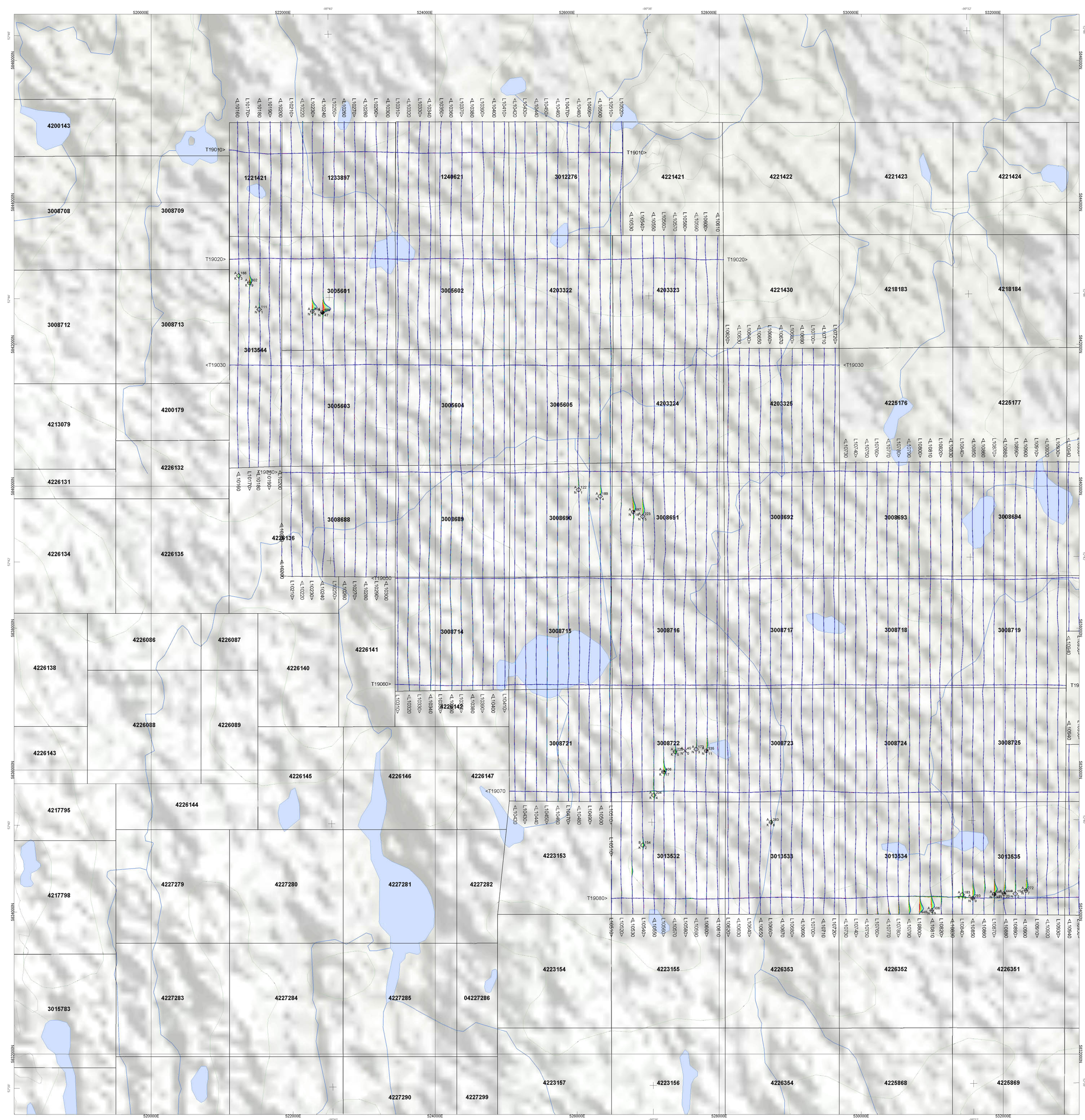
UC Spider and KWG Resources Inc.

AeroTEM Survey Block 10

McFauld's Lake Area

Preliminary Interpretation and TMI Grid

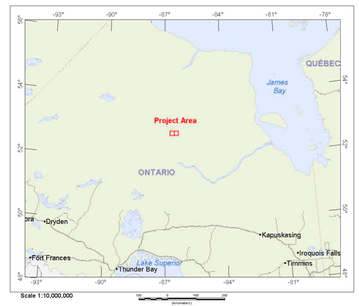
Scott Hogg & Associates Ltd
Geophysical Services
shageophysics.com

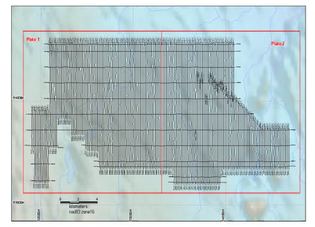


Grid North
NAD83-Zone16

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Block 10, McFaulds Lake Area, Ontario', by Aeroquest Limited, March 2008.





AeroTEM Profiles

positive excursion to top and right, 1mm=20nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A 125 decay constant (us)
thickthiN source K 36 off-time conductance (S)

SURVEY SPECIFICATIONS:
- Survey flown: Dec 16 - 19, 2007, Jan 10 - 13, 2008
- Traverse line spacing: 150
- Traverse line direction: N-S (Azimuth 0°)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

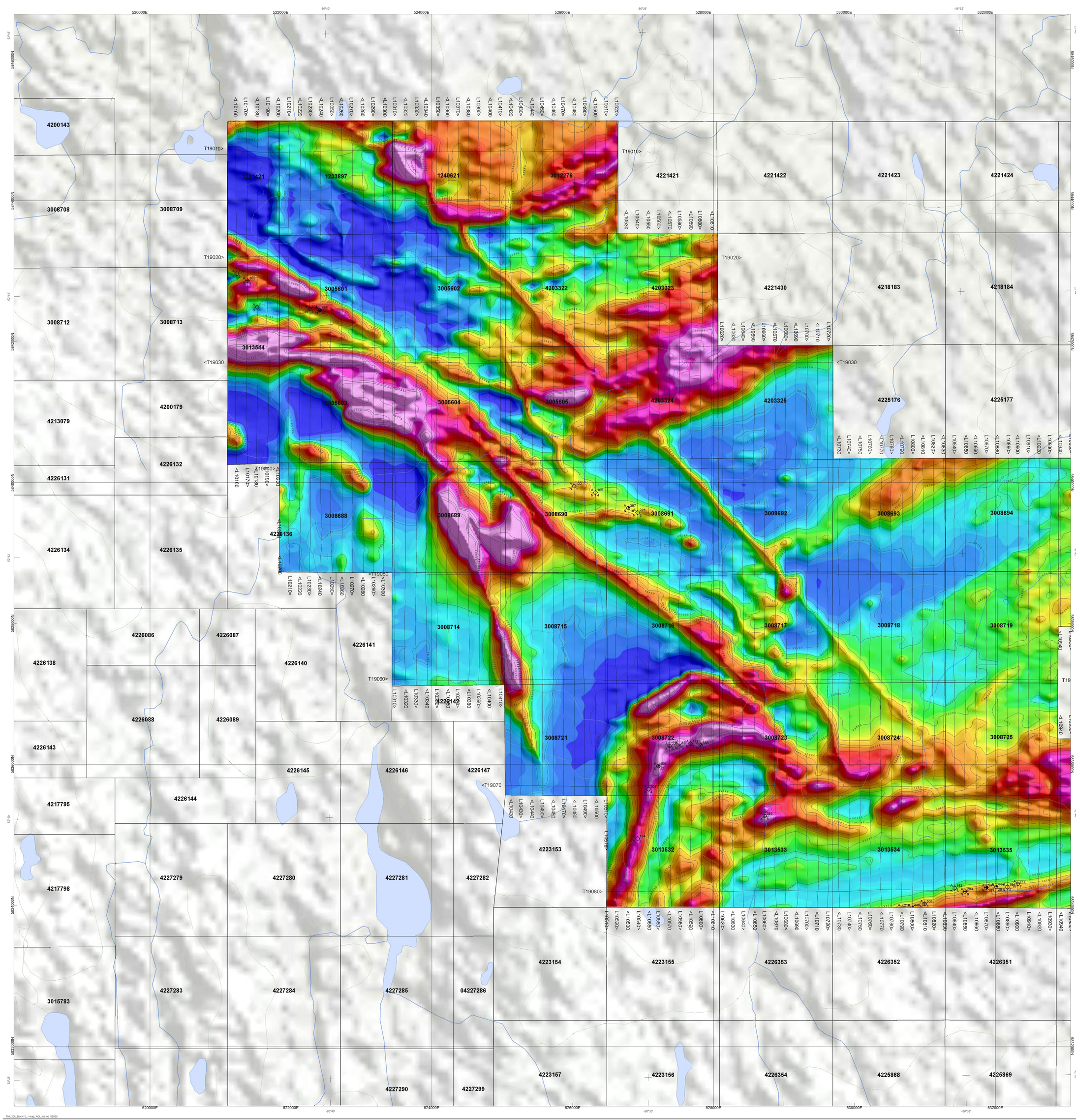
Block 10, Plate 1

NTS 043D10, 15

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7065
www.aeroquest.ca

March 2008

EM Block 10 1


520000E
522000E
524000E
526000E
528000E
530000E
532000E
5846000N
5844000N
5842000N
5840000N
5838000N
5836000N
5834000N
5832000N
4200143
3008708
3008709
3008712
3008713
4213079
4200179
4226131
4226132
4226134
4226135
4226086
4226087
4226138
4226140
4226141
4226088
4226089
4226143
4226145
4226146
4226147
4217795
4226144
4227279
4227280
4227281
4227282
4217798
4227283
4227284
4227285
04227286
3015783
4227290
4227299
4221421
4221422
4221423
4221424
4221430
4218183
4218184
4225176
4225177
4226136
4223153
4223154
4223155
4226353
4226352
4226351
4223157
4223156
4226354
4225868
4225869
3013544
3008688
3008689
3008690
3008691
3008692
3008693
3008694
3008714
3008715
3008716
3008717
3008718
3008719
3008721
3008722
3008723
3008724
3008725
3013532
3013533
3013534
3013535
1221421
1233897
1240621
3012276
3005601
3005602
4203322
4203323
3005603
3005604
3005605
4203324
4203325
T19010>
T19020>
<T19030
T19050
T19060>
T19070
T19080>
<T19040
<T19060
<T19090
<T19100
<T19110
<T19120
<T19130
<T19140
<T19150
<T19160
<T19170
<T19180
<T19190
<T19200
<T19210
<T19220
<T19230
<T19240
<T19250
<T19260
<T19270
<T19280
<T19290
<T19300
<T19310
<T19320
<T19330
<T19340
<T19350
<T19360
<T19370
<T19380
<T19390
<T19400
<T19410
<T19420
<T19430
<T19440
<T19450
<T19460
<T19470
<T19480
<T19490
<T19500
<T19510
<T19520
<T19530
<T19540
<T19550
<T19560
<T19570
<T19580
<T19590
<T19600
<T19610
<T19620
<T19630
<T19640
<T19650
<T19660
<T19670
<T19680
<T19690
<T19700
<T19710
<T19720
<T19730
<T19740
<T19750
<T19760
<T19770
<T19780
<T19790
<T19800
<T19810
<T19820
<T19830
<T19840
<T19850
<T19860
<T19870
<T19880
<T19890
<T19900
<T19910
<T19920
<T19930
<T19940
Grid North
NAD83-Zone16
The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data.
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'
This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Block 10, McFaulds Lake Area, Ontario', by Aeroquest Limited, March 2008.
QUÉBEC
ONTARIO
James Bay
Project Area
Dryden
Kapuskasing
Iroquois Falls
Fort Frances
Timmins
Thunder Bay
Lake Superior
Scale 1:10,000,000
TMI Contour Levels
58000
58150
58200
58250
58300
58350
58400
58500
58600
58700
58800
58900
59000
59500
60000
58924
58792
58706
58652
58610
58574
58540
58510
58482
58455
58431
58406
58387
58366
58348
58330
58314
58303
58293
58284
58275
58265
58257
58248
58240
58232
58224
58217
58210
58203
58196
58189
58180
58171
58160
58147
58132
58112
TMI
nT
Off-Time Anomaly Symbols
>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S
anomaly label
decay constant (µs)
thick/thiN source
off-time conductance (S)
SURVEY SPECIFICATIONS:
Survey flown: Dec 16 - 19, 2007, Jan 10 - 13, 2008
Traverse line spacing: 150
Traverse line direction: N-S (Azimuth 0°)
Nominal EM bird height: 30 metres
Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)
INSTRUMENTATION:
Data acquisition: ADAS & RMS DGR-33
Magnetometer: Geometrics G-823A cesium vapour
Installation: mounted on EM bird
Sensitivity: .001 nanoTesla
Electromagnetics: AeroTEM II System (GOLF)
Configuration: Towed bird
NAVIGATION:
Navigation: Differential Global Positioning System (DGPS)
Navigation equipment: AGNAV with MID-TECH RX400p receiver
Radar Altimeter: Terra TRA3000/TRI-30
DATA PROCESSING
Magnetics: diurnal, tieline and micro-leveling corrections
POSITIONING
Datum: NAD83
Major Axis: 6378137.000
Eccentricity: 0.081819191
MAP PROJECTION
Projection: Universal Transverse Mercator
Central Meridian: 87°W (Zone 16)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
scale 1:20,000
(meters)
NAD83 / UTM zone 16N
Billiken Management Services Inc.
McFaulds Lake Area, Ontario
TOTAL MAGNETIC INTENSITY
Block 10, Plate 1
NTS 043D10, 15
AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 673-9129 Fax: (905) 673-7065
www.aeroquest.ca
March 2008
TMI Block 10 1
TMI_20k_Block10_1.map, AGL Job no. 08055

534000E 536000E 538000E 540000E 542000E 544000E 546000E 548000E

-88°28' -86°24' -86°20'

52°48' 52°44' 52°42' 52°40' 52°38' 52°36'

5848000N 5844000N 5842000N 5840000N 5838000N 5836000N 5834000N 5832000N

4221425 4221426 4221427 4221428 4221429 4226710 4218889 4218890 4218887 4218888 4218904 3006707 3006708 3012265 3012264 3006709

4218185 4218186 4218187 4218188 4226708 4226709 3008260 3012260 3012259

4225178 4226692 4222500 4226706 4226707 1221423 3008261 3012262 3012261

3008695 4226691 4222499 3011553 3011554 3005622 3008773 3008774 4226693

3008720 3011556 3011557 3011558 3011559 3011560 3013547 3013546 3013548 4226695 4204532 3013545

3011555 3011561 3011562 3008727 3013528 3013529 3013530 4226697 4226698 4225862

3008726 3013536 3013537 3013538 4226681 4226682 4226683 4226699 4226700 4226661 4225861

4225864 4226684 4226685 4226686 4226687 4226688 4226100 4225865 4225866 4223167

4225870 4225871 4225872 4225873 4225874 4225875 4225876

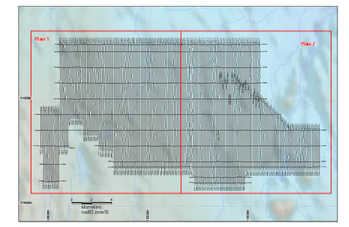
<T19040> <T19050> <T19060> <T19070> T19080>

L10960 L10970 L10980 L10990 L11000 L11010 L11020 L11030 L11040 L11050 L11060 L11070 L11080 L11090 L11100 L11110 L11120 L11130 L11140 L11150 L11160 L11170 L11180 L11190 L11200 L11210 L11220 L11230 L11240 L11250 L11260 L11270 L11280 L11290 L11300 L11310 L11320 L11330 L11340 L11350 L11360 L11370 L11380 L11390 L11400 L11410 L11420 L11430 L11440 L11450 L11460 L11470 L11480 L11490 L11500 L11510 L11520 L11530 L11540 L11550 L11560 L11570 L11580 L11590 L11600 L11610 L11620 L11630 L11640 L11650 L11660 L11670 L11680

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Block 10, McFaulds Lake Area, Ontario', by Aeroquest Limited, March 2008.

Grid North
NAD83-Zone16



AeroTEM Profiles
positive excursion to top and right, 1mm=20nT/s

- Z1 Off-Time Channel
- Z2 Off-Time Channel
- Z3 Off-Time Channel
- Z4 Off-Time Channel
- Z5 Off-Time Channel
- Z6 Off-Time Channel
- Z7 Off-Time Channel
- Z8 Off-Time Channel
- Z9 Off-Time Channel
- Z10 Off-Time Channel
- Z11 Off-Time Channel

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label (A) — decay constant (us) (125)
thicK/thiN source (K) — off-time conductance (S) (36)

SURVEY SPECIFICATIONS:
- Survey flown: Dec 16 - 19, 2007, Jan 10 - 13, 2008
- Traverse line spacing: 150
- Traverse line direction: N-S (Azimuth 0°)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
- Major Axis: 6378137.000
- Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
Elvis6931
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

AEROTEM OFF-TIME PROFILES

Block 10, Plate 2

NTS 043D09,10,15,16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 673-9129 Fax: (905) 673-7085
www.aeroquest.ca

March 2008

EM Block 10 2

EM_20k_Block10_2.map, AQL job no. 08055

534000E 536000E 538000E 540000E 542000E 544000E 546000E 548000E

-86°28' -86°24' -86°20'

52°46' 52°44' 52°42' 52°40' 52°38'

5846000N 5844000N 5842000N 5840000N 5838000N 5836000N 5834000N 5832000N

4221425 4221426 4221427 4221428 4221429 4226710 4218889 4218890 3012265 3006708 3012264 3006709

4218185 4218186 4218187 4218188 4226708 4226709 3008260 3012260 3012259

4225178 4226692 4222500 4226706 4226707 1221423 3008261 3012262 3012261

3008695 4226691 4222499 3011553 3011554 3005622 3008773 3008774 4226693

3008720 3011556 3011557 3011558 3011559 3011560 3013547 3013546 3013548 4226695

3011555 3011561 3011562 3008727 3013528 3013529 3013530 4226697 4226698 4225862

3008726 3013538 3013537 3013538 4226681 4226682 4226683 4226699 4226700 4226661 4225861

4225864 4226684 4226685 4226686 4226687 4226688 4226100 4225865 4225866 4223167

4225870 4225871 4225872 4225873 4225874 4225875 4225876

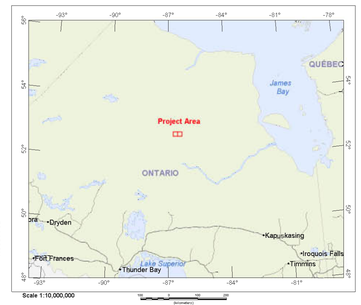
<T19040> <T19050> <T19060> <T19070> <T19080>

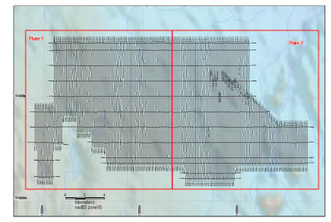
L10940 L10950 L10960 L10970 L10980 L10990 L11000 L11010 L11020 L11030 L11040 L11050 L11060 L11070 L11080 L11090 L11100 L11110 L11120 L11130 L11140 L11150 L11160 L11170 L11180 L11190 L11200 L11210 L11220 L11230 L11240 L11250 L11260 L11270 L11280 L11290 L11300 L11310 L11320 L11330 L11340 L11350 L11360 L11370 L11380 L11390 L11400 L11410 L11420 L11430 L11440 L11450 L11460 L11470 L11480 L11490 L11500 L11510 L11520 L11530 L11540 L11550 L11560 L11570 L11580 L11590 L11600 L11610 L11620 L11630 L11640 L11650 L11660 L11670 L11680

The topographic data base was sourced from 1:250000 Natural Resources Canada NTDB data.
Background shading derived from NASA SRTM data
Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Block 10, McFaulds Lake Area, Ontario', by Aeroquest Limited, March 2008.

Grid North
NAD83-Zone16





TMI Contour Levels

58000 58150 58200 58250 58300 58350 58400 58500 58600 58700 58800 58900 59000 59500 60000

58924 58792 58706 58652 58610 58574 58540 58510 58482 58455 58431 58408 58387 58366 58348 58330 58314 58303 58293 58284 58275 58265 58257 58248 58240 58232 58224 58217 58210 58203 58196 58189 58180 58171 58160 58147 58132 58112

TMI nT

Off-Time Anomaly Symbols

>50S
35-50S
20-35S
10-20S
5-10S
1-5S
<1S

anomaly label A K thickt/hN source — decay constant (us) 125 36 — off-time conductance (S)

SURVEY SPECIFICATIONS:
- Survey flown: Dec 16 - 19, 2007, Jan 10 - 13, 2008
- Traverse line spacing: 150
- Traverse line direction: N-S (Azimuth 0°)
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350B2 (C-GPTY)

INSTRUMENTATION:
- Data acquisition: ADAS & RMS DGR-33
- Magnetometer: Geometrics G-823A cesium vapour
- Installation: mounted on EM bird
- Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (GOLF)
- Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

DATA PROCESSING
- Magnetics: diurnal, tieline and micro-leveling corrections

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
  - Eccentricity: 0.081819191

MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 87°W (Zone 16)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

scale 1:20,000

250 0 250 500 750 1000 1250 1500
(meters)
NAD83 / UTM zone 16N

Billiken Management Services Inc.
McFaulds Lake Area, Ontario

TOTAL MAGNETIC INTENSITY

Block 10, Plate 2

NTS 043D09,10,15,16

AEROQUEST INTERNATIONAL
ADVANCED AIRBORNE GEOPHYSICS
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 673-3729 Fax: (905) 673-7083
www.aeroquest.ca

March 2008

TMI Block 10 2

TMI_20k_Block10_2 map, AQL Job no 06055