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**REPORTS AND MAPS**  
**of the**  
**GROUND MAGNETIC AND VLF-EM SURVEYS**  
**on CLAIMS 4255012 and 4253013**  
**WARK1 PROPERTY**  
**NORTH TIMMINS GOLD PROJECT**  
**PORCUPINE MINING DIVISION,**  
**NORTHEASTERN ONTARIO**



**February 26, 2016**

1) Logistical Geophysical Report for Gowest Gold Ltd on the Wark 1 Claims 4255012, 4253013 Prosser and Wark Townships, Porcupine Mining Division Northeastern Ontario by JC Grant, Exsics Exploration.

2) Report on Geophysical Interpretation of Ground Magnetic Data on claims P-4255012 Prosser Twp. and P-4253013, Wark Twp, Ontario For Gowest Gold Ltd. by Geomapping Ltd.

3) List of Maps

Ground Total Magnetic Intensity Profiles and Postings

Ground Total Magnetic Intensity Contoured Colour Image

Ground Calculated Magnetic Tilt Derivative Contoured Colour Image


Ground Calculated Magnetic Vertical Derivative Shadowed Colour Image

Ground VLF-EM NAA Cutler, Maine IP and QU Profiles and Postings

Ground VLF-EM NAA Cutler, Maine Fraser-Filtered Tilt Contoured Colour Image

Geophysical Interpretation

GEOPHYSICAL REPORT  
FOR  
**GOWEST GOLD LTD.**  
ON THE  
**WARK 1 PROPERTY, CLAIMS 4255012, 4253010**  
PROSSER AND WARK TOWNSHIPS  
PORCUPINE MINING DIVISION  
NORTHEASTERN, ONTARIO



Prepared by: J. C. Grant,  
February 2016



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**INTRODUCTION:**

The services of Exsics Exploration Limited were retained by Mr. Kevin Montgomery on behalf of the company, Gowest Gold Ltd., to complete a ground geophysical program across 2 claim blocks, (the Wark 1 Property), located Prosser and Wark Townships of the Porcupine Mining Division in Northeastern Ontario.

The purpose of the program was to locate and outline a geological setting that may represent a favorable horizon for gold deposition.

**PROPERTY LOCATION AND ACCESS:**

The Wark 1 Property is situated in the central south section of Prosser Township and the north central section of Wark Township.

More specifically it represents the south 1/2 of Lot 5 Concession 1 of Prosser and all of Lot 4 Concession 6 of Wark Township.

Access to the property during the survey period was by Highway 655 north from Timmins for 33 kilometers to a good all weather road locally called the Gowest Mine road that runs east from Highway 655. This all-weather road was plowed from the Highway for 11 kilometers to a gravel pit that represented the landing place for parking the trucks and unloading the skidoos which would be used for accessing the grid area. A series of ingress old roads and trails running south and west from the landing were used for skidoo access to the northeast corner of the upper claim block and central east section of the lower claim block. The skidoo access was about 7.5 kilometers of these trails and roads.

Traveling time from Timmins to the grid is about 1.5 hours. Figures 1 and 2

**CLAIM BLOCK:**

The claim numbers that represent the Wark 1 property are listed below.

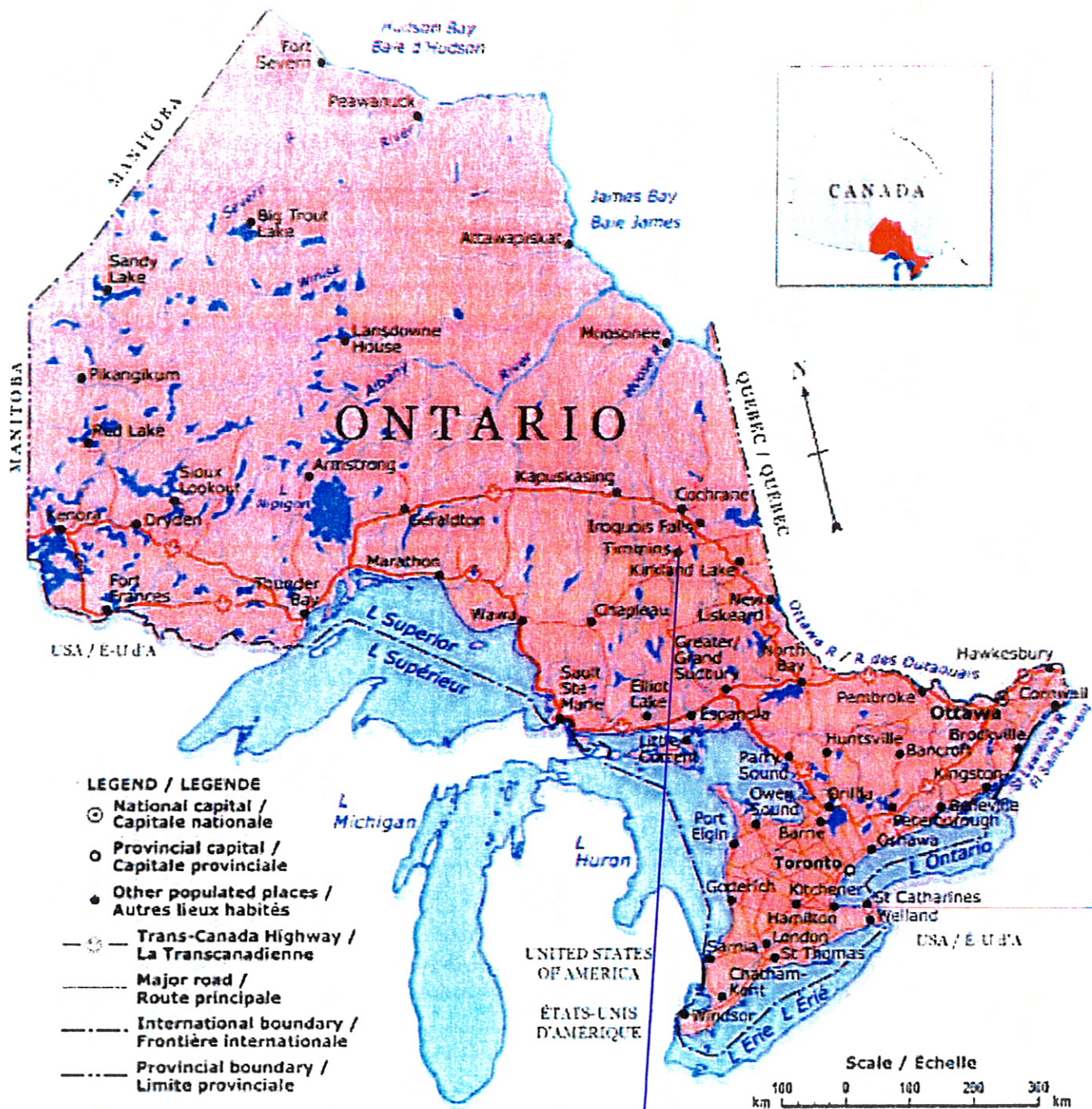
Prosser Township:

P-4255012                      4 units                      S1/2 Lots 5 Conc. 1

Wark Township:


P-4253013                      8 units,                      Lot 4, Conc. 6

Refer to Figure 3 copied from MNDM Plan Map of Carnegie Townships for the positioning of the claim numbers within the Township.

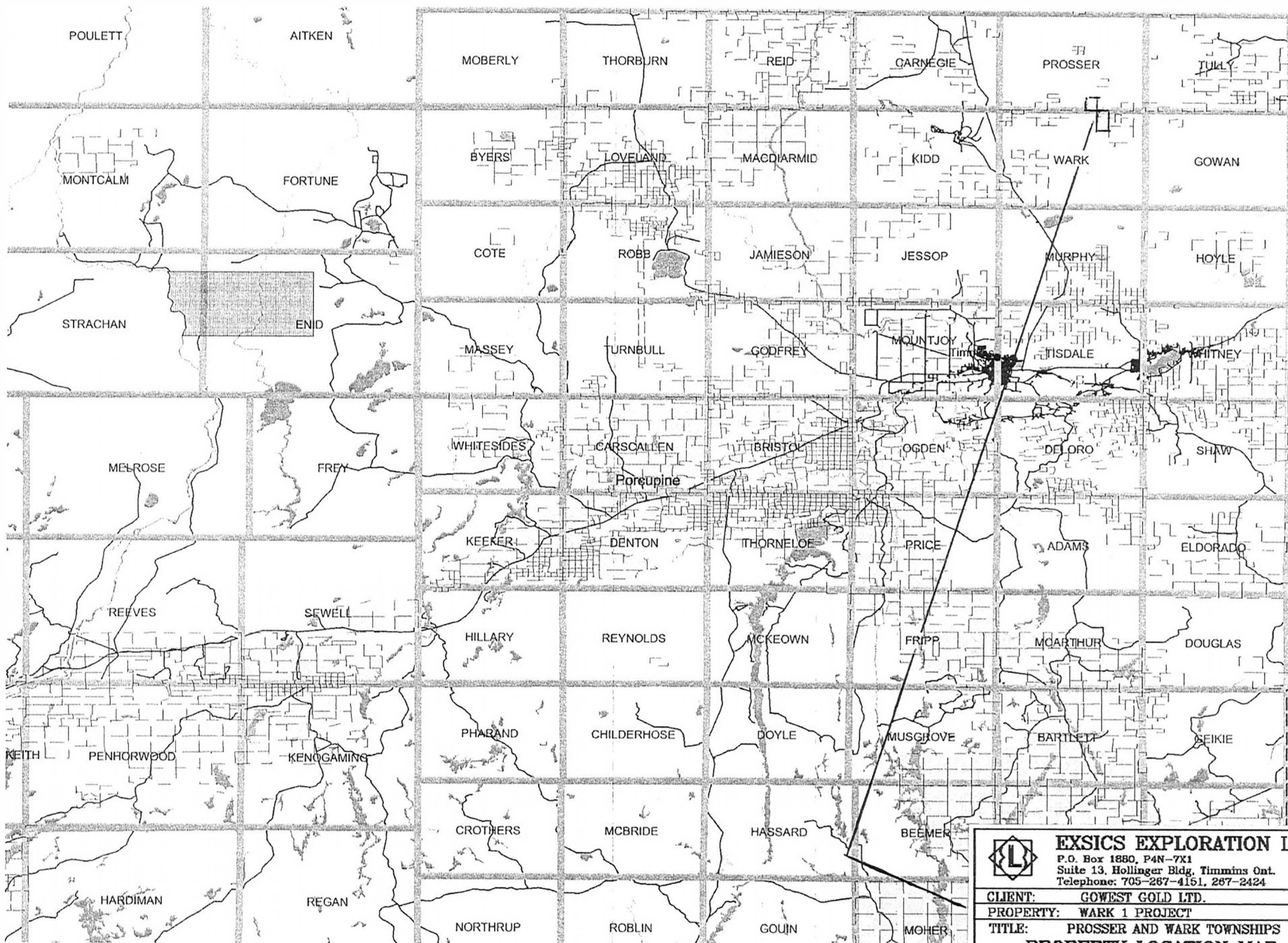


**LEGEND / LEGENDE**

- ⊙ National capital / Capitale nationale
- Provincial capital / Capitale provinciale
- Other populated places / Autres lieux habités
- Trans-Canada Highway / La Transcanadienne
- Major road / Route principale
- - - International boundary / Frontière internationale
- · - Provincial boundary / Limite provinciale

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424		
PROPERTY: WARK 1 PROJECT		
TITLE: PROSSER AND WARK TOWNSHIPS		
<b>LOCATION MAP</b>		
Fig. 1		
Date: FEB. 2016	Scale:	NTS:
Drawn: J.C.Grant	Interp:	Job: E-954



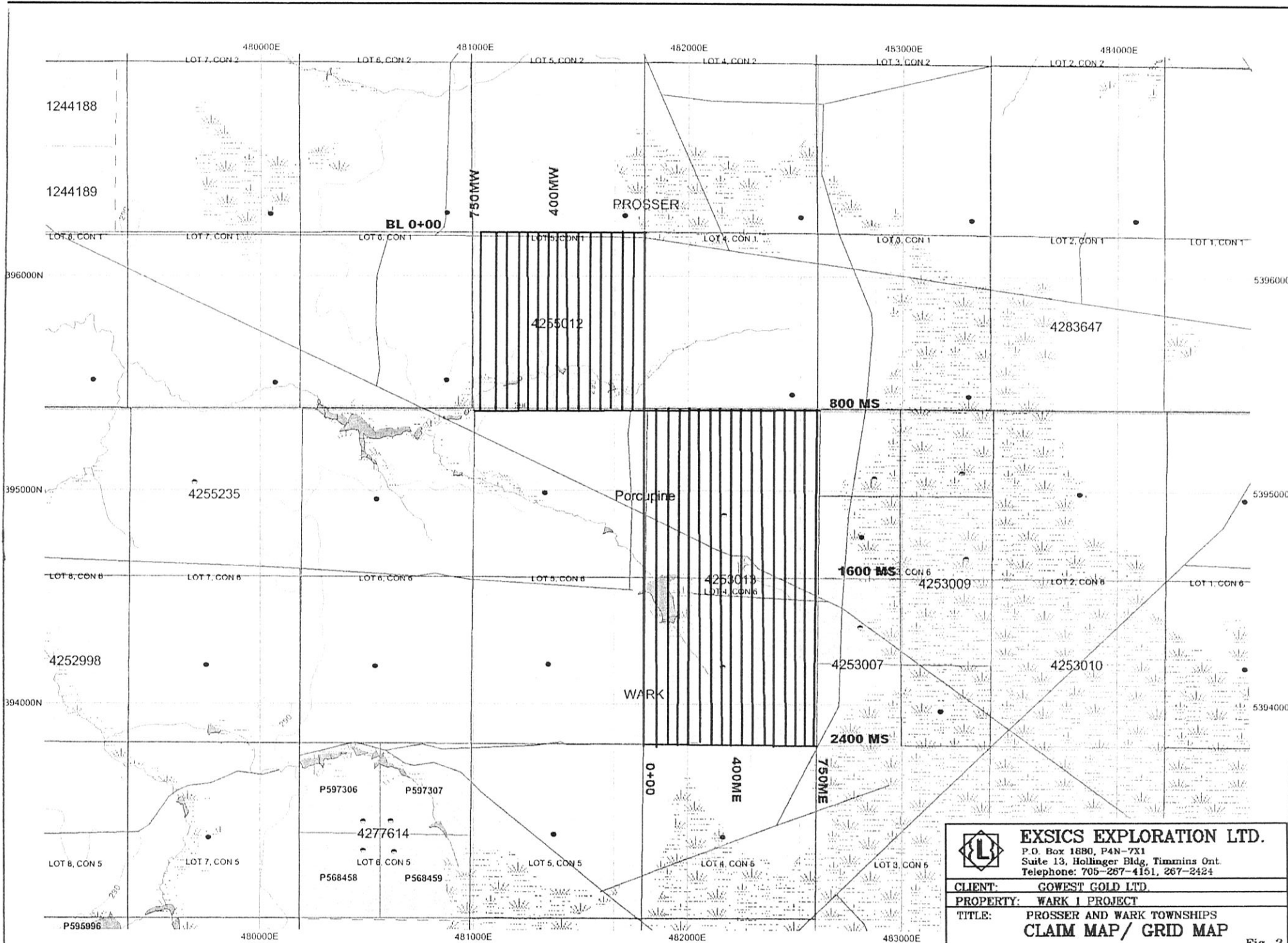


**EXSICS EXPLORATION LTD.**

P.O. Box 1880, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-287-4151, 287-2424

**CLIENT:** GOWEST GOLD LTD.  
**PROPERTY:** WARK 1 PROJECT  
**TITLE:** PROSSER AND WARK TOWNSHIPS  
**PROPERTY LOCATION MAP**

Fig. 2




	<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1680, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424	
	<b>CLIENT:</b> GOWEST GOLD LTD.	<b>PROPERTY:</b> WARK 1 PROJECT
<b>TITLE:</b> PROSSER AND WARK TOWNSHIPS <b>CLAIM MAP/ GRID MAP</b>		

Fig. 3

**PERSONNEL:**

The field crew directly responsible for the collection of all the raw data were as follows.

R. Bradshaw	Timmins, Ontario
J. Francoeur	Timmins, Ontario

The plotting and interpretation as well as the report was completed by J. C. Grant of Exsics Exploration Limited.

**GROUND PROGRAM:**

The ground program consisted of a Total Field Magnetic survey that was done in conjunction with a VLF-EM survey that was done over a series of compassed, paced and flagged GPS controlled grid lines. These grid lines were completed at 50 meter intervals over both claim blocks from their east to west boundaries and north to south boundaries.

Line 750MW represented the western boundary of the northern claim and line 750ME represented the eastern boundary of the southern claim block. Lines 750MW to 50MW were read from 0+00 to 800MS and lines 750ME to 50 ME were read from 800MS to 2400MS. Line 0+00 was read from 0+00 to 2400MS and was the common line between both claim units. The magnetic and VLF-EM survey were then done at 12.5 and 25 meter reading intervals across all of these grid lines using the Scintrex Envi Mag system. Specifications for this unit can be found as Appendix A of this report.

In all a total of 38.4 kilometers of new grid lines were compassed and surveyed across the two claim blocks between January 19<sup>th</sup> and February 6<sup>th</sup>.

The following parameters were kept constant throughout both of the surveys.

**Magnetic and VLF-EM Surveys:**

Line spacing.....	50 meters
Station spacing.....	25 meters
Reading intervals.....	12.5 and 25 meters
Diurnal monitor.....	base station
Base record intervals	30 seconds
Reference field.....	56,500 gammas
Datum subtracted.....	56,000 gammas
Unit accuracy.....	+/- 0.1 gammas
VLF-EM transmitting station	Cutler, Maine 24.0Khz
Transmitting station direction	115 degrees
Parameters measured	In Phase and Quadrature components of the secondary field
Unit accuracy	+/- 0.5%

Once the surveys were completed the magnetic field data was plotted directly onto a base map at a scale of 1:5000. A datum level of 56000 gammas was removed from the data before it was plotted onto the base map. The data was then contoured at 25 gamma intervals wherever possible.

The VLF-EM In Phase data was also plotted onto a base map at a scale of 1:5000 and then it was profiled at 1cm = +/- 10%. Any and all conductor axis were then placed onto the base map. Copies of these plan base maps are included in the back pocket of this report.

### **MAGNETIC and VLF-EM SURVEY RESULTS:**

The magnetic and VLF-EM surveys were successful in locating and outlining the suspected geological features of the grid area. Certainly the most significant magnetic structure is the northeast to southwest striking magnetic high unit that covers the south central section of claim 4253013. The unit is a well-defined near vertically dipping unit that continues off of the grid in both directions. The magnetic high is closely associated with a narrow belt of ultramafics that strike northeast across the northwest section of Wark Township and into the southeast corner of Prosser. This band of ultramafics lie on the southern edge of a sedimentary unit that strike across the area in the same direction. (Map 2205, Timmins-Kirkland Lake Geological Compilation Series). There are several VLF zones associated with the north and south edges of this high as would be expected. The magnetic feature appears to dip near vertical to slightly northwest.

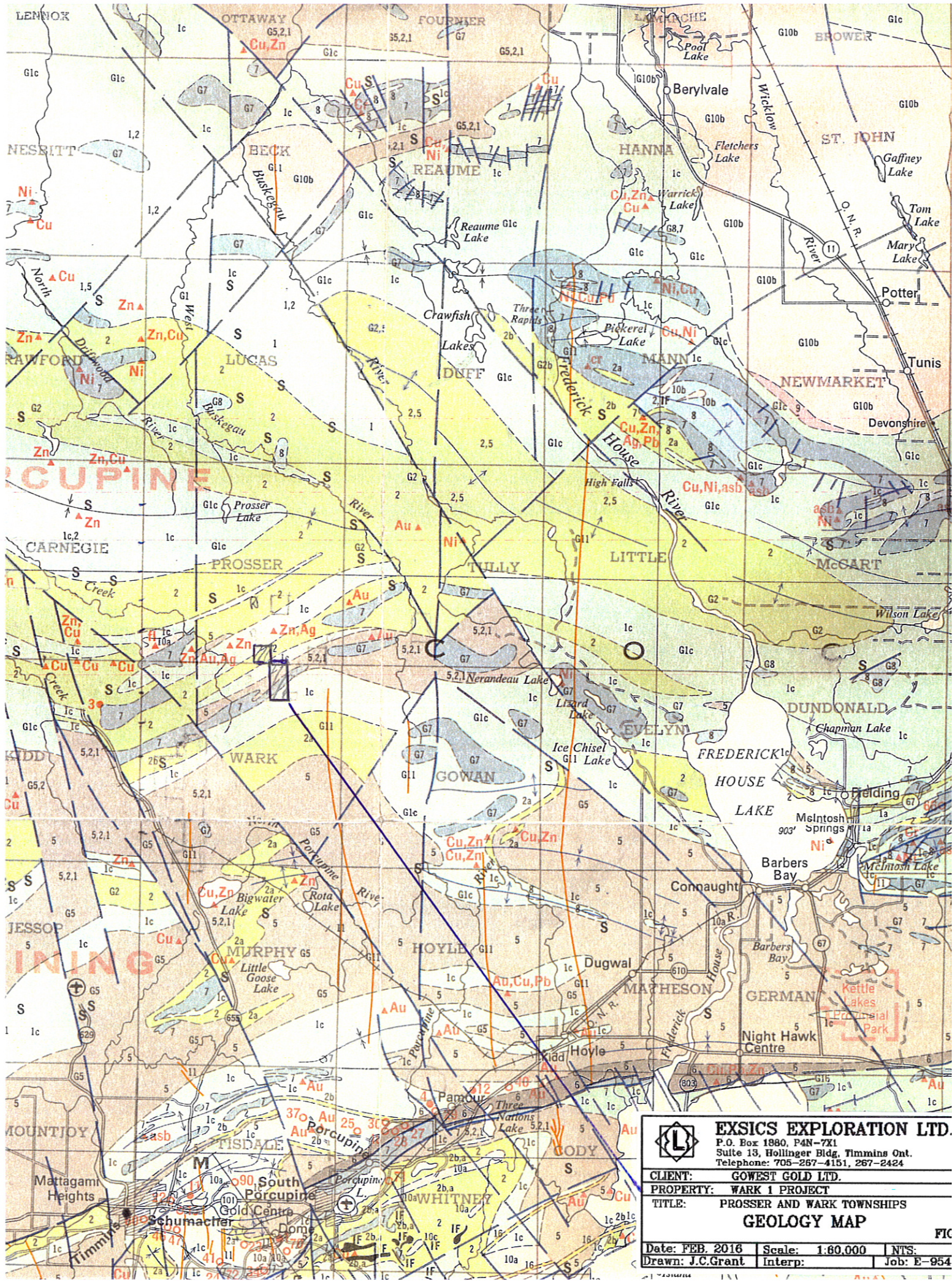
There are several shorter magnetic high units associated with the above mentioned high trend. The first high is located between lines 100ME and 350ME and between 1600MS and 1800MS that is approximately the same magnetic intensity as the main magnetic high unit but the northeastern edge of this high appears to have been cut off by a north south subtle mag low feature that is paralleling line 400ME. This high may represent a portion of the ultramafic intrusive that strikes across the area. This zone also has several VLF zones associated with its flanks. This feature also appears to dip near vertical to slightly southeast.

There is another parallel magnetic high lying between 50ME and 700ME and between 1200MS and 1450MS that also appears to have been faulted and or interrupted by the same narrow magnetic low that is paralleling line 450ME and 400ME. The intensity of this magnetic feature is not quite as high as the above mentioned zones which would suggest the unit may be deeper than the two southern units. This unit has several weak VLF zones associated with its edges and a number of the airborne EM targets lie along the north and south limbs of the high.

Another narrow magnetic high unit strikes into the grid from the northeast and runs across lines 0 to 200MW between 100MS and 300MS. This zone has one of the stronger VLF trends associated with its southern edge and the zone can be traced as far as line 650MW. This zone dips near vertical to slightly northwest. The intensity of the unit would suggest that the feature may correlate to an intrusive.

A final magnetic high lies between 300MS and 400MS from 700MW to 750MW and continues off of the grid to the west. This high lies at the western tip of a good VLF trend that can be followed from line 750MW to 0+00 at about 400MS.







**CONCLUSIONS AND RECOMMENDATIONS:**

The ground surveys were successful in locating and outlining the expected geological features of the grid. The most predominant magnetic highs appear to be associated with an untramafic intrusive unit that strikes across the area in a northeast to southwest direction and lies along the southern flank of a suspected metasedimentary unit. Both of these geological units are well documented on Map 2205, Timmins-Kirkland Lake Geological Compilation Series. The airborne EM targets appear to lie along the northern most magnetic high unit and appear to correlate with the edges of the unit. The VLF survey did not enhance the airborne targets nor did it outline additional parallel zones, especially on the southern block of claims in Wark, as the overburden depth and conductivity does not lend itself well to this type of geophysical survey.

The only two moderate VLF trends lie across the northern claim unit and they can be traced across the entire portion of the grid from line 0 to 750MW and may continue off of the grid to the west. Neither zone correlates to any of the airborne EM targets.

I would suggest a deeper penetrating electromagnetic survey be completed across the southern portion of the claims to better define the airborne targets. A Horizontal Loop Electromagnetic, (HLEM), survey should be considered, using a 150 or 200 meter coil separation and multiple frequencies of 3555HZ, 1777HZ and 444Hz which would be able to read the depth of the overburden coverage as well as penetrate that coverage and penetrate to the required depth to define the airborne targets. Once this is completed and interpreted then any and all drill hole locations, dips and depths should be based on those results.

Respectfully submitted



J. E. Grant

February 2016

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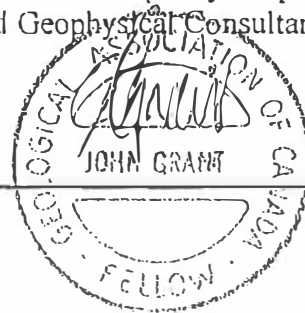
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## CERTIFICATION

I, John Charles Grant, of 108 Kay Crescent, in the City of Timmins, Province of Ontario, hereby certify that:

- 1). I am a graduate of Cambrian College of Applied Arts and Technology, 1975, Sudbury Ontario Campus, with a 3 year Honors Diploma in Geological and Geophysical Technology.
- 2). I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years, 1975 to 1980), and currently as Exploration Manager and Chief Geophysicist for Exsics Exploration Limited, since May, 1980.
- 3). I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984.
- 4). I am in good standing as a Fellow of the Geological Association of Canada, (FGAC), since 1986.
- 5). I have been actively engaged in my profession since the 15<sup>th</sup> day of May, 1975, in all aspects of ground exploration programs including the planning and execution of field programs, project supervision, data compilation, interpretations and reports.
- 6). I have no specific or special interest nor do I expect to receive any such interest in the herein described property. I have been retained by the property holders and or their Agents as a Geological and Geophysical Consultant and Contract Manager.

John Charles Grant, CET., FGAC.



## APPENDIX A

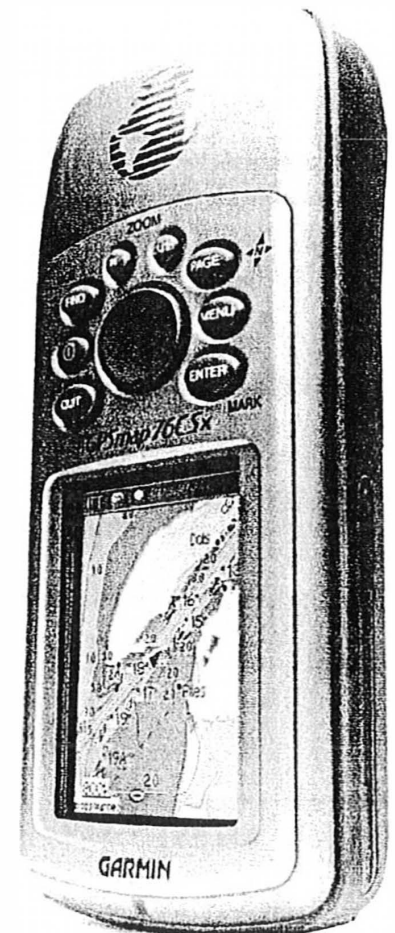


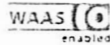
Amazing detail and color meet  
high-sensitivity GPS performance in

## Waterproof navigation with a splash of color

the GPSMAP 76Cx and 76CSx.

These mariner-friendly handhelds are  
WAAS-enabled, waterproof, and they'll  
even float if dropped overboard.  
They're set to go the distance on land  
or sea thanks to a long battery life  
and 128 megabytes of microSD  
card memory for loading optional  
MapSource® detail: BlueChart®,  
City Navigator™, TOPO, and more.  
The 76CSx adds electronic compass and  
barometric altimeter for extremely  
accurate heading and elevation readings.  
Automatic pressure trend recording even  
lets you keep an eye on the weather.





### Navigation features

- Waypoints/icons:** 1000 with name and graphic symbol, 10 proximity
- Routes:** 50 reversible routes with up to 250 points each, plus MCB and TracBack™ modes
- Tracks:** Automatic track log; 20 saved tracks let you retrace your path in both directions
- Trip computer:** Current speed, average speed, resettable max. speed, trip timer and trip distance
- Alarms:** Anchor drag, approach and arrival, off-course, proximity waypoint, shallow water and deep water
- Tables:** Built-in celestial tables for best times to fish and hunt, sun and moon rise/set based on date and location
- Map datums:** More than 100 plus user datum
- Position format:** Lat/Lon, UTM/UUPS, Maidenhead, MGRS, Loran TDs and other grids, including user grid

### GPS performance

- Receiver:** High sensitivity SiRFstarIII™ GPS receiver; WAAS-enabled; continuously tracks and updates your position
- Acquisition times\*:**
  - Warm: <1 sec
  - Cold: <38 sec
  - Factory reset: <45 sec
- Update rate:** 1/second, continuous
- GPS accuracy:**
  - Position: <10 meters, typical
  - Velocity: .05 meter/sec steady state
- DGPS (WAAS) accuracy:**
  - Position: <5 meters, typical
  - Velocity: .05 meter/sec steady state
- Dynamics:** 4 g's
- Protocol messages:** NMEA 0183 output protocol
- Antenna:** Built-in quad helix receiving antenna, with external antenna connection (MCX)

### Moving map features

- Basemap:** (GPSMAP 76Cx & 76CSx) Built-in routable basemap (North and South America) with cities, highways, interstates, local thoroughfares and secondary roads within metro areas, interstate exit services, airports, rivers, lakes, coastlines and tide stations

### Uploadable maps:

(GPSMAP 76Cx & 76CSx)

Accepts up to 1 GB (gigabyte) microSD™ data card for downloaded map detail from a variety of optional MapSource™ media (extra microSD data cards optional)

### Electronic compass feature

(GPSMAP 76CSx only)

**Accuracy:** ±2 degrees with proper calibration (typical); ±5 degrees extreme northern and southern latitudes

**Resolution:** 1 degree

### Barometric altimeter feature

(GPSMAP 76CSx only)

**Accuracy:** 10 feet with proper calibration (user and/or automatic calibration)

**Resolution:** 1 foot

**Range:** -2,000 to 30,000 feet

**Elevation computer:** Current elevation, resettable minimum and maximum elevation, ascent/descent rate, total ascent/descent, average and maximum ascent/descent rate

**Pressure:** Local pressure (mbar/inches HG), 48-hour automatic pressure trend recording

### Power

**Source:** Up to 30 hours (76Cx)  
Up to 20 hours (76CSx)

**Battery life:** Up to 16 hours; 10 hours typical on GPSMAP 76CSx

### Physical

**Size:** 2.7"W x 6.2"H x 1.2"D (6.9 x 15.7 x 3.1 cm)  
**Weight:** 7.7 ounces with batteries (not included)  
**Display:** 1.6"W x 2.2"H (4.1 x 5.6 cm)  
256-color transfective TFT display (160 x 240 pixels)

**Case:** Fully gasketed, high impact plastic alloy, waterproof to IEC 60529 IPX7 standards

**Temp. range:** 5°F to 158°F (-15°C to 70°C)

**User data storage:** Indefinite, no memory battery required

### Accessories

**Standard:** 128 MB microSD card  
PC/USB interface cable  
MapSource Trip & Waypoint Manager CD  
Owner's manual  
Quick reference guide  
Wrist strap

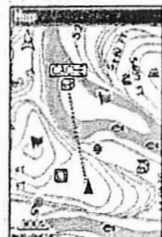
**Optional:** Marine mount  
Carrying case  
12-volt adapter cable  
Power/data cable  
Remote GPS antenna



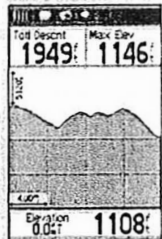
Accepts MapSource™ BlueChart™ data for detailed offshore cartography



Get detailed street maps plus the location of services with MapSource™ City Navigator™



MapSource TOPO data is ideal for outdoor sports such as hiking or geocaching



The barometric altimeter feature on the GPSMAP 76CSx provides elevation profiles

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www.garmin.com

Specifications are preliminary and subject to change without notice.

\*On average for a stationary receiver with an open sky view.

GPSMAP 76Cx

GPS 76CSx





*ENVI VLF is the ideal groundwater exploration tool.*

With the gradiometer option there is no lost survey time as the ENVI enables you to conduct gradient surveys during magnetic storms. The technique of simultaneously measuring the two sensors cancels the effects of diurnal magnetic variations.

## **ENVI VLF**

The ENVI VLF is ideal for environmental, geotechnical and mineral/water exploration application.

The ENVI VLF unit allows you to read the vertical in-phase, vertical quadrature, total field strength, dip angle, primary field direction, apparent resistivity, phase angle, time, grid coordinates, direction of travel along grid lines and natural and cultural features. The ability to obtain data from as many as 3 VLF transmitting stations provides complete coverage of an anomaly regardless of the orientation of the survey grid or of the anomaly itself.

The unique, 3-coil sensor does not require orientation of the VLF sensor head toward the transmitter station. This simplifies VLF field procedures and saves considerable survey time.

The ENVI VLF can measure up to three VLF frequencies. The display indicates the signal to noise ratio which provides you with an immediate indication of how usable a frequency is. The ENVI also enables you to automatically scan the entire VLF spectrum for the most usable stations between 15 kHz to 30 kHz. Using up to three frequencies optimizes conductor coupling even in the most complex geological environments. The ENVI VLF system's ability to obtain repeatable readings from weak signals offers a number of benefits:

- extends the use of VLF to countries where its use was previously marginal
- increases the number of frequencies with which you can operate

## **VLF Resistivity Option**

The ENVI also offers a non-orientation VLF resistivity option.

## **ENVI MAG/VLF**

The ENVI MAG/VLF has the features of both the ENVI MAG and ENVI VLF combined in one instrument.

## **ENVI GRAD/VLF**

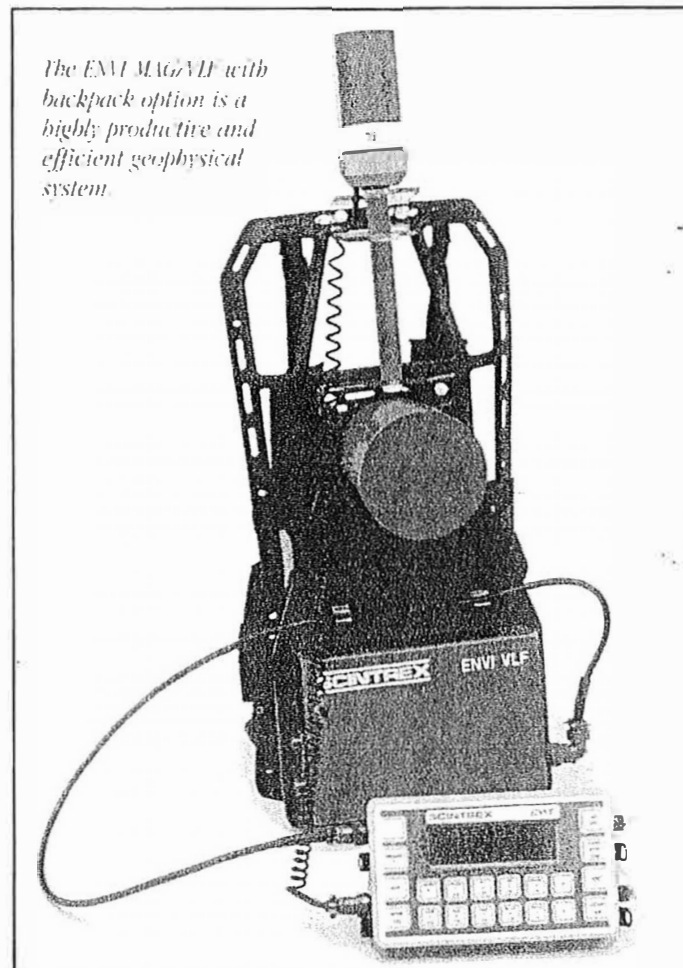
The ENVI GRAD/VLF has the features of both the ENVI GRAD and ENVI VLF combined in one instrument.

## **ENVI MAP Software**

Supplied with the ENVI MAG and ENVI GRAD and custom designed for this purpose, is an easy to use, menu-driven data processing and mapping software for magnetic data called ENVI MAP. The software enables you to:

- read the ENVI MAG/GRAD data and reformat it into a standard, compatible with the ENVI MAP software
- grid the data into a standard grid format
- create a vector file of posted values with line and baseline identification that allows the user to add some title information and build a suitable map surround
- contour the grided data
- autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 inch wide dot-matrix printer
- rasterize and output the results of the autoscaling to the printer

The ENVI MAP software is fully compatible with Geosoft programs. More advanced data processing, modeling and interpretation software is also available.



*The ENVI MAG/VLF with backpack option is a highly productive and efficient geophysical system.*

**Total Field Operating Range**

20,000 to 100,000 nT (gammas)

**Total Field Absolute Accuracy:**

±1 nT

**Sensitivity:**

0.1 nT at 2 second sampling rate

**Tuning**

Fully solid state. Manual or automatic, keyboard selectable

**Cycling (Reading) Rates**

0.5, 1 or 2 seconds

**Gradiometer Option**

Includes a second sensor, 1/2m (20 inch) staff extender and processor module.

**VLF Option**

Includes a VLF sensor and harness assembly

**'WALKMAG' Mode**

continuous reading, cycling as fast as 0.5 seconds

**Digital Display**

LCD "Super Twist", 240 x 64 dots graphics, 8 line x 40 characters alphanumeric

**Display Heater**

Thermostatically controlled, for cold weather operations

**Keyboard Input**

17 keys, dual function, membrane type

**Notebook Function**

32 characters, 5 user-defined MACRO's for quick entry

**Standard Memory**

Total Field Measurements: 28,000 readings

Gradiometer Measurements: 21,000 readings

Base Station Measurements: 151,000 readings

VLF Measurements: 4,500 readings for 3 frequencies

**Expanded Memory**

Total Field Measurements: 140,000 readings

Gradiometer Measurements: 109,000 readings

Base Station Measurements: 750,000 readings

VLF Measurements: 24,000 readings for 3 frequencies

**Real-Time Clock**

Records full date, hours, minutes and seconds with 1 second resolution, ±1 second stability over 24 hours

**Digital Data Output**

RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off. High speed Binary Dump. Selectable formats for easy interfacing to commercial software packages.

**Analog Output**

0-999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1000 or 10,000 full scale

**Power Supply**

Rechargeable 'Camcorder' type, 2.3 Ah, Lead-acid battery  
12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer  
External 12 Volt input for base station operations  
Optional external battery pouch for cold weather operations

**Battery Charger**

110 Volt-230 Volt, 50/60 Hz

**Operating Temperature Range**

Standard: -40° to 60°C

**Dimensions & Weight**

Console: 250mm x 152mm x 55mm (10" x 6" x 2.25")  
2.45 kg (5.4 lbs) with rechargeable battery

Magnetic Sensor: 70mm x 175mm (2.75" d x 7")  
1 kg (2.2 lbs)

Gradiometer Sensor: 70mm x 675mm (2.75" d x 26.5")  
(with staff extender) 1.15 kg (2.5 lbs)

Sensor Staff: 25mm x 2m (1" d x 76")  
.8 kg (1.75 lbs)

VLF Sensor Head: 140mm x 130mm (5.5" d x 5.1")  
.9 kg (2 lbs)

VLF Sensor: 280mm x 190mm x 75mm (11" x 7.5" x 3")  
1.7 kg (3.7 lbs)

**Options**

Base Station Accessories Kit

GPS

Software Packages

Training Programs

# SCINTREX

# SCINTREX

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Website: [www.auslog.com.au](http://www.auslog.com.au)



REPORT ON GEOPHYSICAL INTERPRETATION

OF

GROUND MAGNETIC DATA

ON

CLAIMS P-4255012 PROSSER TWP, AND P-4253013, WARK TWP, ONTARIO

FOR

GOWEST GOLD LTD.

BY

GEOMAPPING LTD

TORONTO

FEBRUARY 18, 2016



## INTRODUCTION

This report describes the interpretation of ground magnetic data collected by Exsics Exploration Ltd. during January 2016 on two claims held by Gowest Gold Ltd in Wark Township near Timmins, Ontario. The operational details of the ground survey are described in a report to Gowest by Exsics Exploration Ltd.

The purpose of this study was to map the geology and define specific contacts to assist in a drilling program by Gowest during the winter of 2016.

The data collected was total field magnetic using a Scintrex magnetometer, model ENVI VLF, and VLF in phase and quadrature readings from the transmitter NAA in Maine. The traverse line interval was 50 metres and the station interval was 12.5 metres.

Some data processing and the final presentation of maps was carried out by CGI Controlled Geophysics Ltd., of Markham, Ontario

## MAGNETIC DATA

Maps showing Total Magnetic field and the enhancement features of calculated vertical gradient and tilt derivative are included with this report. The last two were used mainly for the interpretation of geological contacts, and the geology is based on Ontario Geological Survey map number P425, The Timmins Area, by P.T. George, 1967. Reference was also made to past drill holes on map P478, Wark Township.

### SOUTHEAST CLAIM BLOCK

A set of magnetic linear anomalies lie in the southern part of the Southeast claim and they extend to correlate with the mafic intrusive of gabbro on map P245. Two bands of these strike approximately northeast-southwest and appear to be broken in three places by east-west faults. These are marked as gabbro and the low magnetic area between them as either felsic volcanics or metasediments.

Just to the north, where the proposed drill sites are located, magnetic anomalies appear to correlate to what is mapped as metavolcanics: mafic volcanics dominant. The low magnetic areas correlate with either felsic volcanics or metasediments in the form of greywacke, slate or argillite.

The contacts between the low and high magnetic rock types are generally well defined on the enhanced magnetic images of vertical gradient and tilt derivative and may be used with confidence for drill setups. But the faults, as is often the case in magnetic patterns, are less clearly defined and are somewhat speculative.

### NORTHWEST CLAIM BLOCK

This claim block lies in Prosser Township and reference was made to OGS map P-3593, Prosser Township, as well as map P-425. The contacts of the magnetic anomalies are less well

defined than in the SE block possibly because they are marking the difference between ultra basic and basic volcanics which may have less of a magnetic susceptibility contrast.

One fault has been interpreted and four separate magnetic zones that are not seen on the Prosser Township map. These zones are proposed to be ultramafic volcanics and are marked Umv on the interpretation map.

On Line 650E a model was derived from the profile data using the Geosoft PotentQ program which fits the profile to various geometrical shapes. In this case a fit was made to a dyke, near vertical dyke, whose strike is E-W and lies between UTM coordinates 5,395,805 and 5,395,845 North. The cross section is shown in fig 1.

#### VLF DATA

The VLF data shows a number of weak conductors on both claim groups. Where they overlap the airborne EM anomalies from an earlier HeliTEM survey they show no correlation with anomalies found on that survey. It is concluded that, as is often seen in the Timmins clay belt region, the VLF is responding to and in fact masked by the conductive overburden. In this survey the VLF data is not useful as a means of detecting bedrock conductivity.

#### CONCLUSION

Magnetic surveys are very useful as a geological mapping tool in this part of the Precambrian shield where bedrock is obscured by thick overburden. Contacts between rock types of dissimilar magnetic susceptibility are usually clearly defined.

VLF surveys are not able to penetrate the overburden in this area and so are not of value in detecting bedrock conductors in this area.

Roger K. Watson, B.A.Sc., P.Eng  
Consulting Geophysicist  
February 19, 2016  
[rogerwatson@sympatico.ca](mailto:rogerwatson@sympatico.ca)

#### FIGURES

Figure 1 – PotentQ Magnetic Model Line 650E

Figure 2 – Total Magnetic Intensity Profiles and Postings

Figure 3 – Total Magnetic Intensity Contoured Colour Image

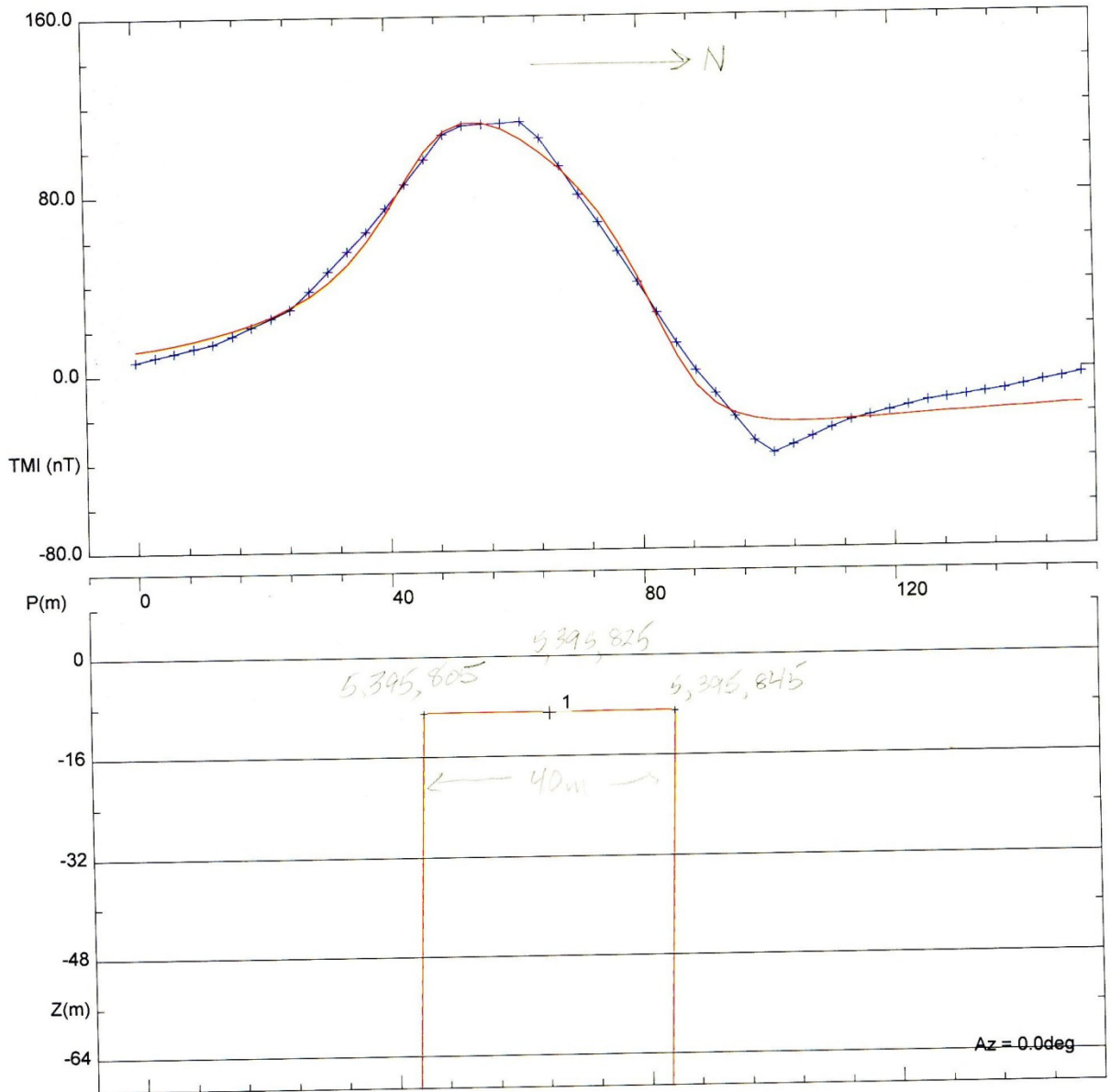
Figure 4 – Calculated Magnetic Tilt Derivative Contoured Colour Image

Figure 5 – Calculated Magnetic Vertical Derivative

Figure 6 – VLF-EM NAA Cutler, Maine Profiles and Postings

Figure 7 – VLF-EM NAA Cutler, Maine Fraser-Filtered Tilt Contoured Colour Image

Figure 8 – Geophysical Interpretation



### Model Summary

GoWest NW Wark - Line 650E

IGRF : H = 58348; Az = -10.9; Inc = 75.2

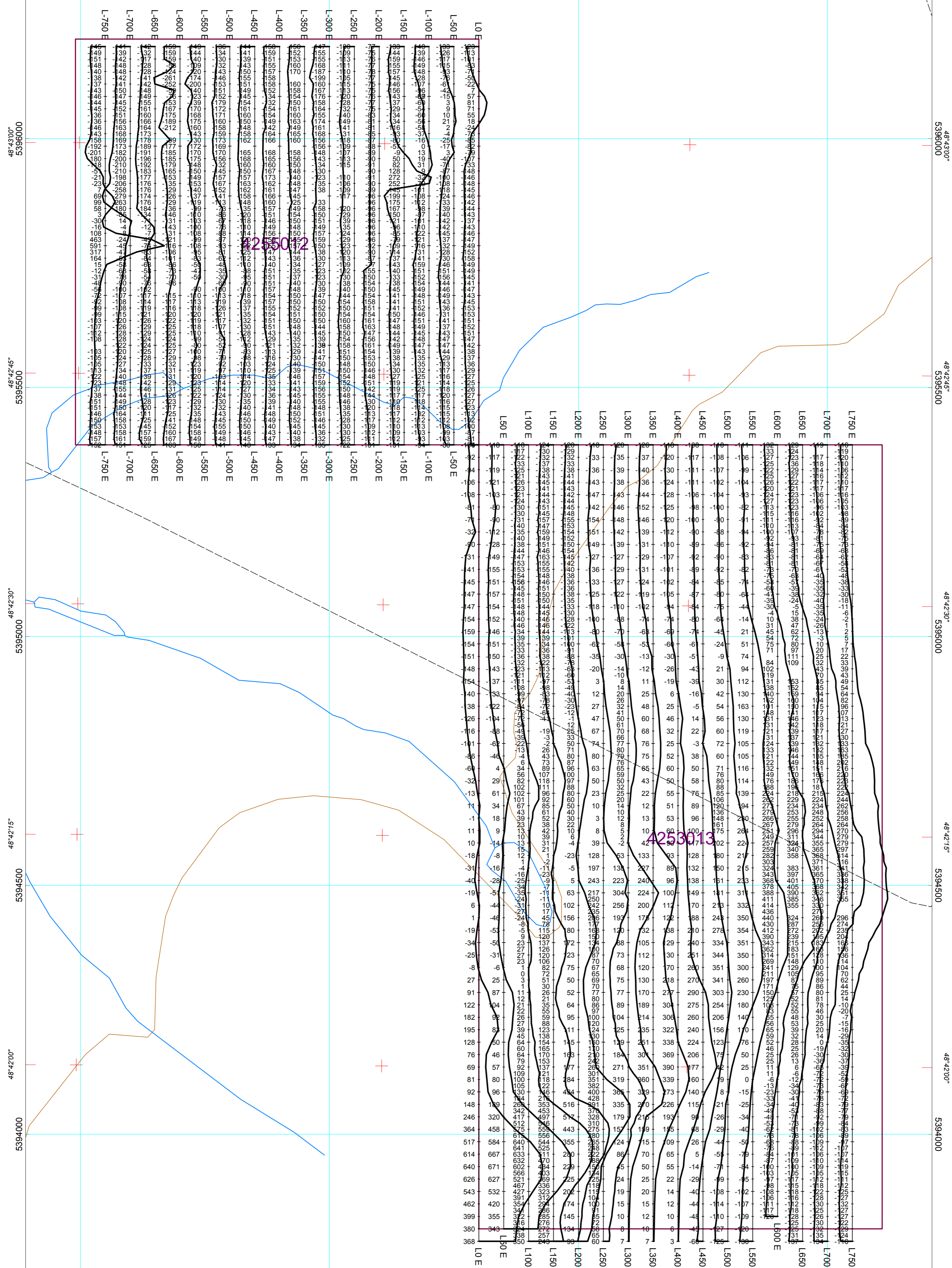
Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
1	Dyke	481150.0	5395824.6	-9.1	-90.0	-0.2	0.0	0.0059	39.9	0.0	174.4	91.5

Figure 1 – PotentQ Magnetic Model Line 650E

-81°15'30" 481000 -81°15'00" 481500 -81°14'30" 482000 482500

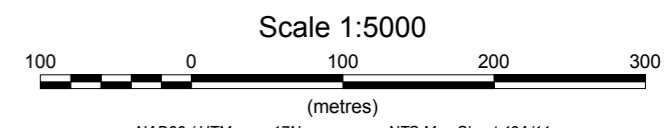
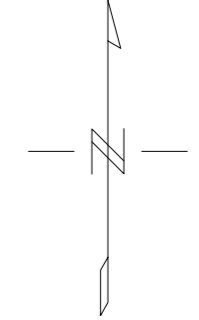
Specifications:

SURVEY TYPE:  
Total Magnetic Intensity and VLF-EM  
MAGNETOMETER EQUIPMENT:  
SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
NOMINAL STATION SPACING:  
50 and 12.5 METRES



48°43'00" 5396000  
48°42'45" 5395500  
48°42'30" 5395000  
48°42'15" 5394500  
48°42'00" 5394000

Magnetic Profile Scale: 250 nT/cm, positive to East  
Magnetic Profile/Posting Base Removed: 56150 nT  
  
Magnetic IGR at 48°42' N, 81°15' W,  
and 291 m A.S.L. on February 1, 2016.  
Intensity: 56126.9 nT  
Inclination: 73.6°  
Declination: -10.8°



Scale 1:5000  
NAD83 / UTM zone 17N NTS Map Sheet 42A/11

481000 -81°15'30" 481500 -81°15'00" 482000 -81°14'30" 482500

**Gowest Gold Ltd.**  
**NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON**  
**Ground Total Magnetic Intensity**  
**Profiles and Postings**

Data Acquisition by  
 Exsics Exploration Limited, Timmins, ON  
 Data Processing & Presentation by  
 CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_TMI\_BW Image: - Date: February 20, 2016



-81°15'30" 481000 -81°15'00" 481500 482000 -81°14'30" 482500

Specifications:

SURVEY TYPE:  
Total Magnetic Intensity (TMI) and VLF-EM  
MAGNETOMETER EQUIPMENT:  
SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
NOMINAL STATION SPACING:  
50 and 12.5 METRES

48°43'00" 5396000

48°43'00" 5396000

48°42'45" 5395500

48°42'45" 5395500

48°42'30" 5395000

48°42'30" 5395000

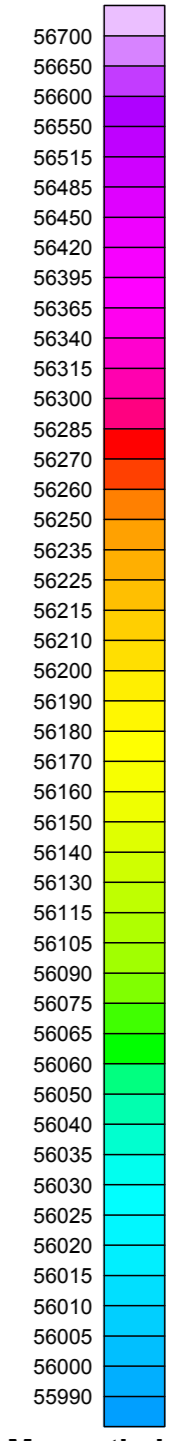
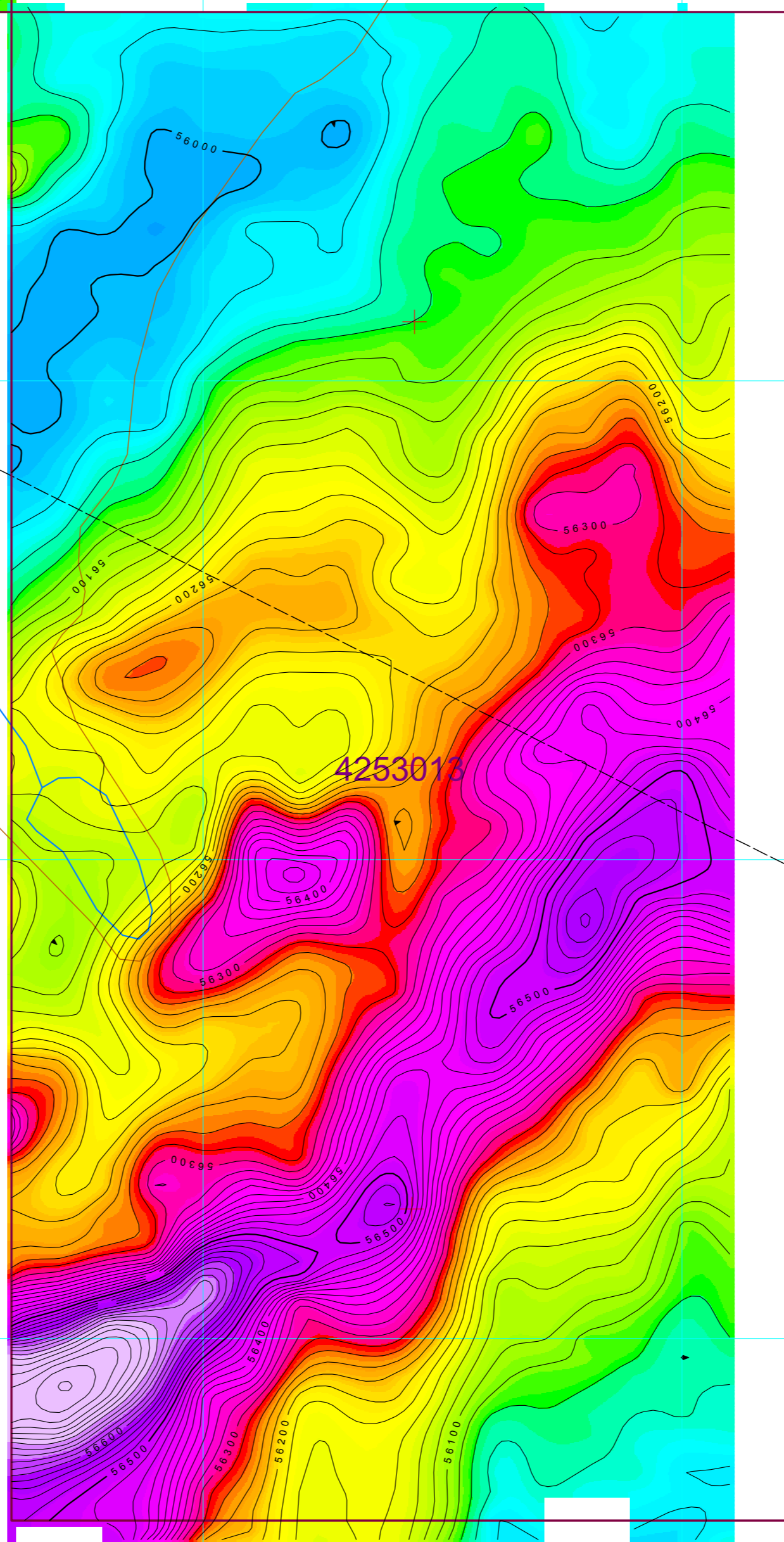
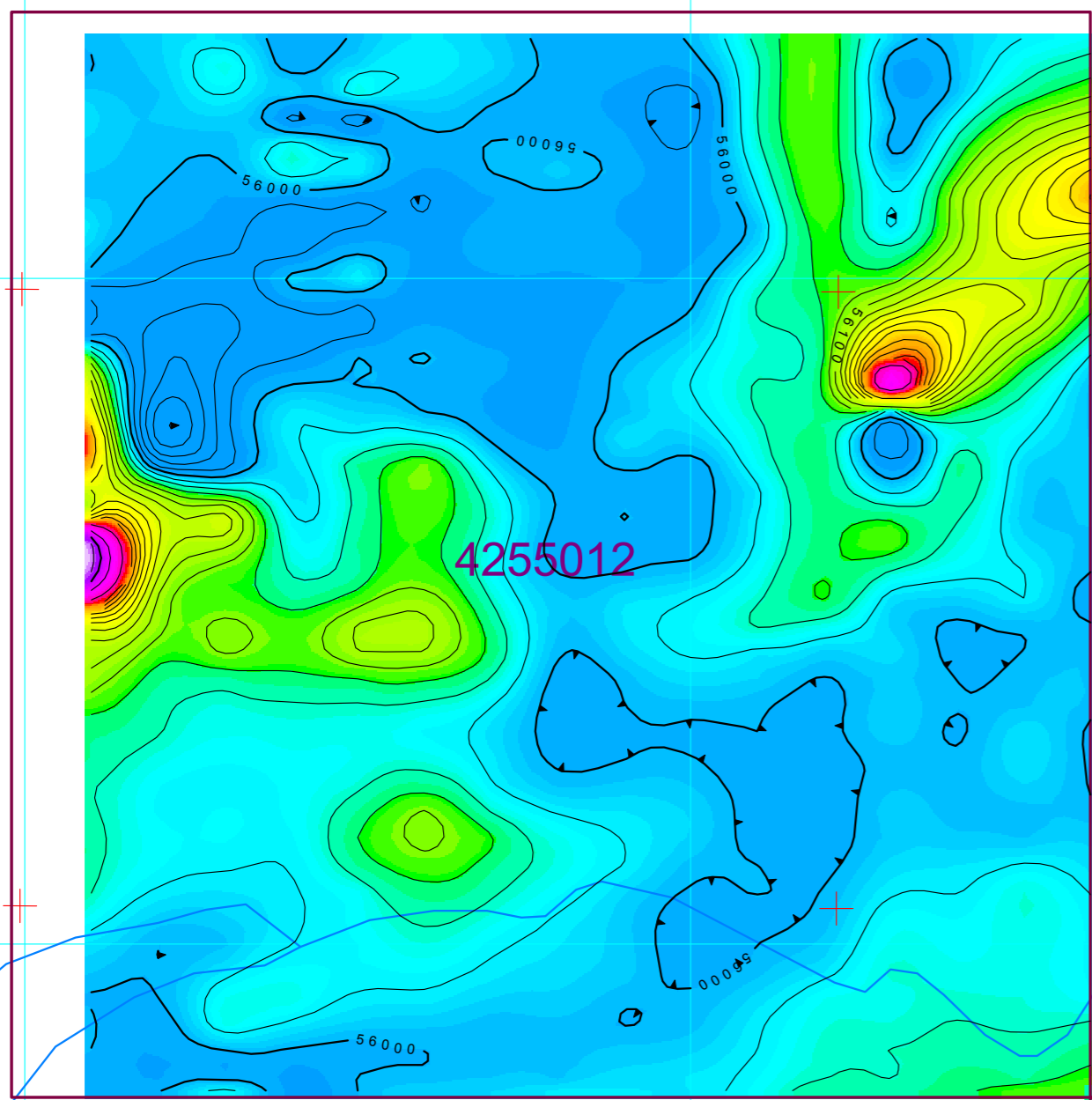
48°42'15" 5394500

48°42'15" 5394500

48°42'00" 5394000

48°42'00" 5394000

481000 -81°15'30" 481500 -81°15'00" 482000 -81°14'30" 482500

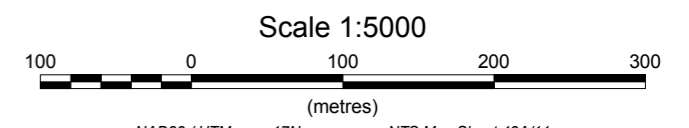
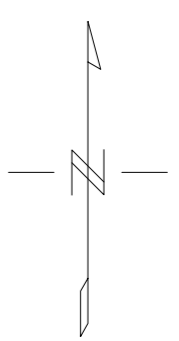


Total Magnetic Intensity [nT]

Minimum Curvature Gridding / Cell Size: 10 m

Contour Intervals [nT]
20
100
500
2500

Magnetic IGR at 48°42' N, 81°15' W,  
and 291 m A.S.L. on February 1, 2016.  
Intensity: 56126.9 nT  
Inclination: 73.6°  
Declination: -10.8°



**Gowest Gold Ltd.**

**NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON  
Ground Total Magnetic Intensity  
Contoured Colour Image**

Data Acquisition by  
Exsics Exploration Limited, Timmins, ON  
Data Processing & Presentation by  
CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_TMI\_5k Image: - Date: February 10, 2016

-81°15'30" 481000 -81°15'00" 481500 482000 -81°14'30" 482500

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

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48°42'00" 5394000

48°43'00" 5396000

48°42'45" 5395500

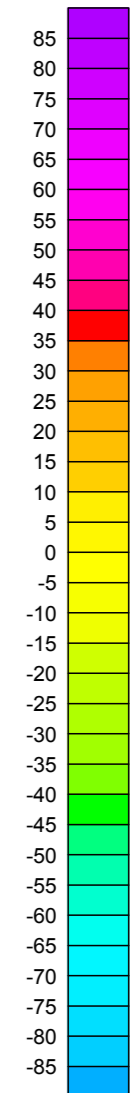
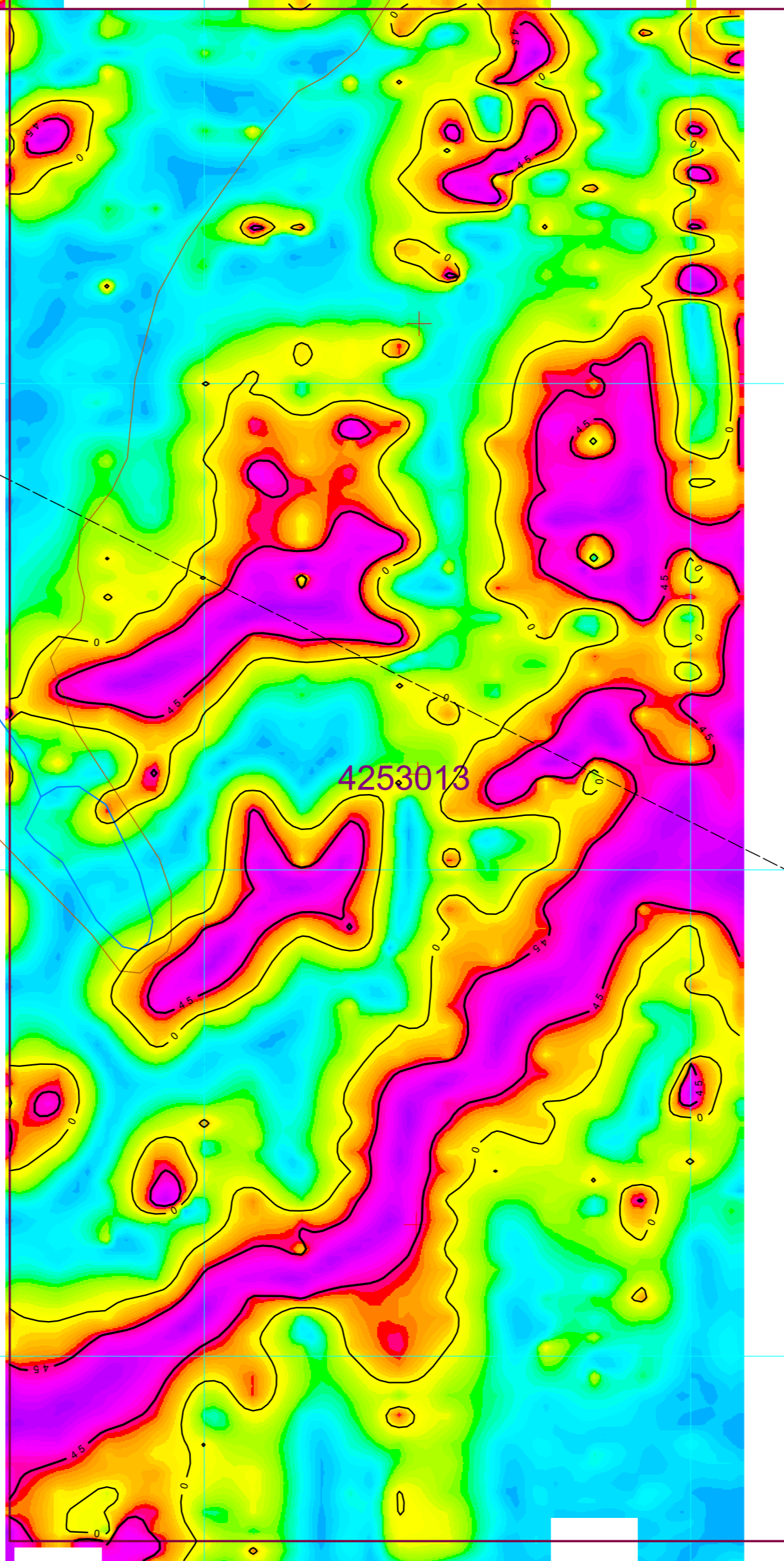
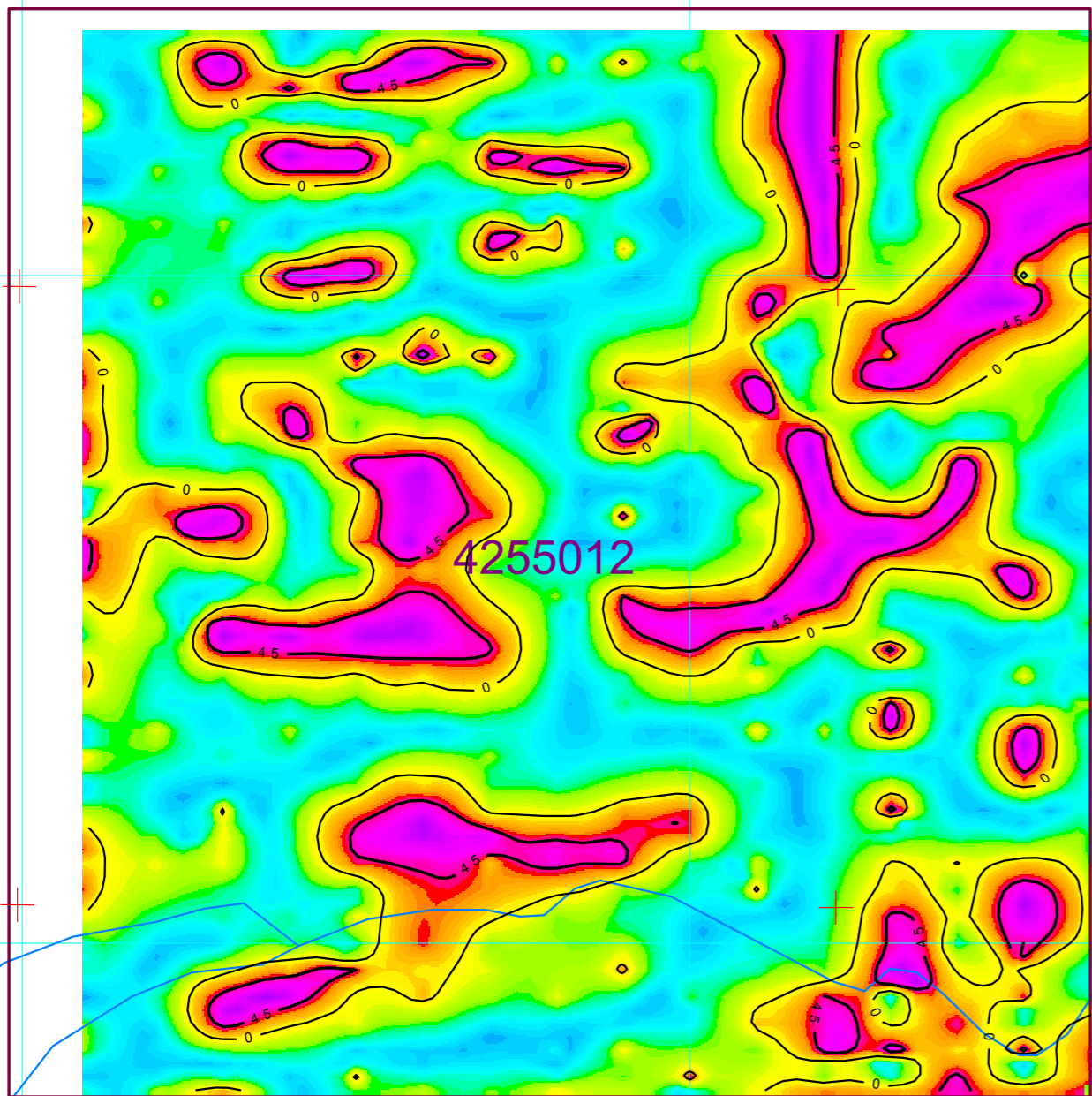
48°42'30" 5395000

48°42'15" 5394500

48°42'00" 5394000

Specifications:

SURVEY TYPE:  
Total Magnetic Intensity (TMI) and VLF-EM  
MAGNETOMETER EQUIPMENT:  
SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
NOMINAL STATION SPACING:  
50 and 12.5 METRES

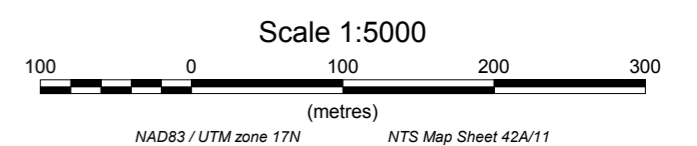
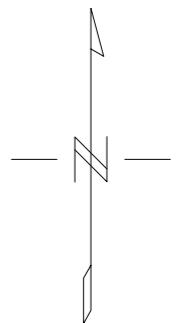


Calculated Magnetic Tilt Derivative [degrees]

Note: The Tilt Derivative is defined as  $\arctan(\text{VertGrad}/\text{TotalHorizGrad})$ .  
The 0 contour corresponds to a vertical magnetic source edge. Half the distance between the +/-45 contours corresponds to source depth.

Contour Intervals [degrees]	
—	-45
—	0
—	+45

Magnetic IGR at 48°42' N, 81°15' W,  
and 291 m A.S.L. on February 1, 2016.  
Intensity: 56126.9 nT  
Inclination: 73.6°  
Declination: -10.8°



NAD83 / UTM zone 17N NTS Map Sheet 42A/11

**Gowest Gold Ltd.**

**NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON  
Ground Calculated Magnetic Tilt Derivative  
Contoured Colour Image**

Data Acquisition by  
Exsics Exploration Limited, Timmins, ON  
Data Processing & Presentation by  
CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_TDR Image: TDR Date: February 20, 2016

481000 -81°15'30" 481500 -81°15'00" 482000 -81°14'30" 482500



-81°15'30" 481000 -81°15'00" 481500 482000 -81°14'30" 482500

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

48°42'15" 5394500

48°42'00" 5394000

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

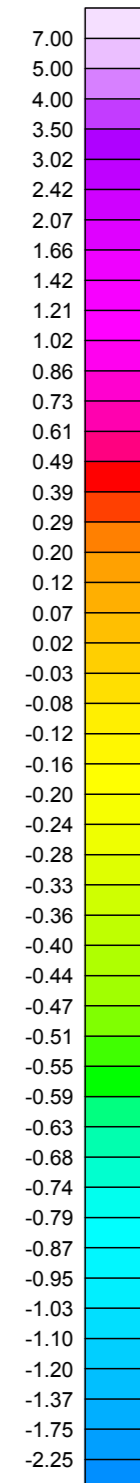
48°42'15" 5394500

48°42'00" 5394000

481000 -81°15'30" 481500 -81°15'00" 482000 -81°14'30" 482500

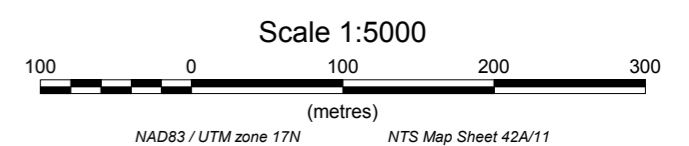
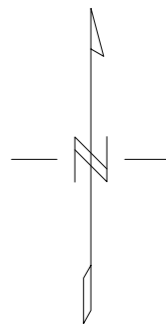
Specifications:

SURVEY TYPE:  
Total Magnetic Intensity (TMI) and VLF-EM  
MAGNETOMETER EQUIPMENT:  
SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
NOMINAL STATION SPACING:  
50 and 12.5 METRES



Calculated Magnetic Vertical Derivative [nT/m]

Magnetic IGRF at 48°42' N, 81°15' W,  
and 291 m A.S.L. on February 1, 2016.  
Intensity: 56126.9 nT  
Inclination: 73.6°  
Declination: -10.8°



NAD83 / UTM zone 17N NTS Map Sheet 42A/11

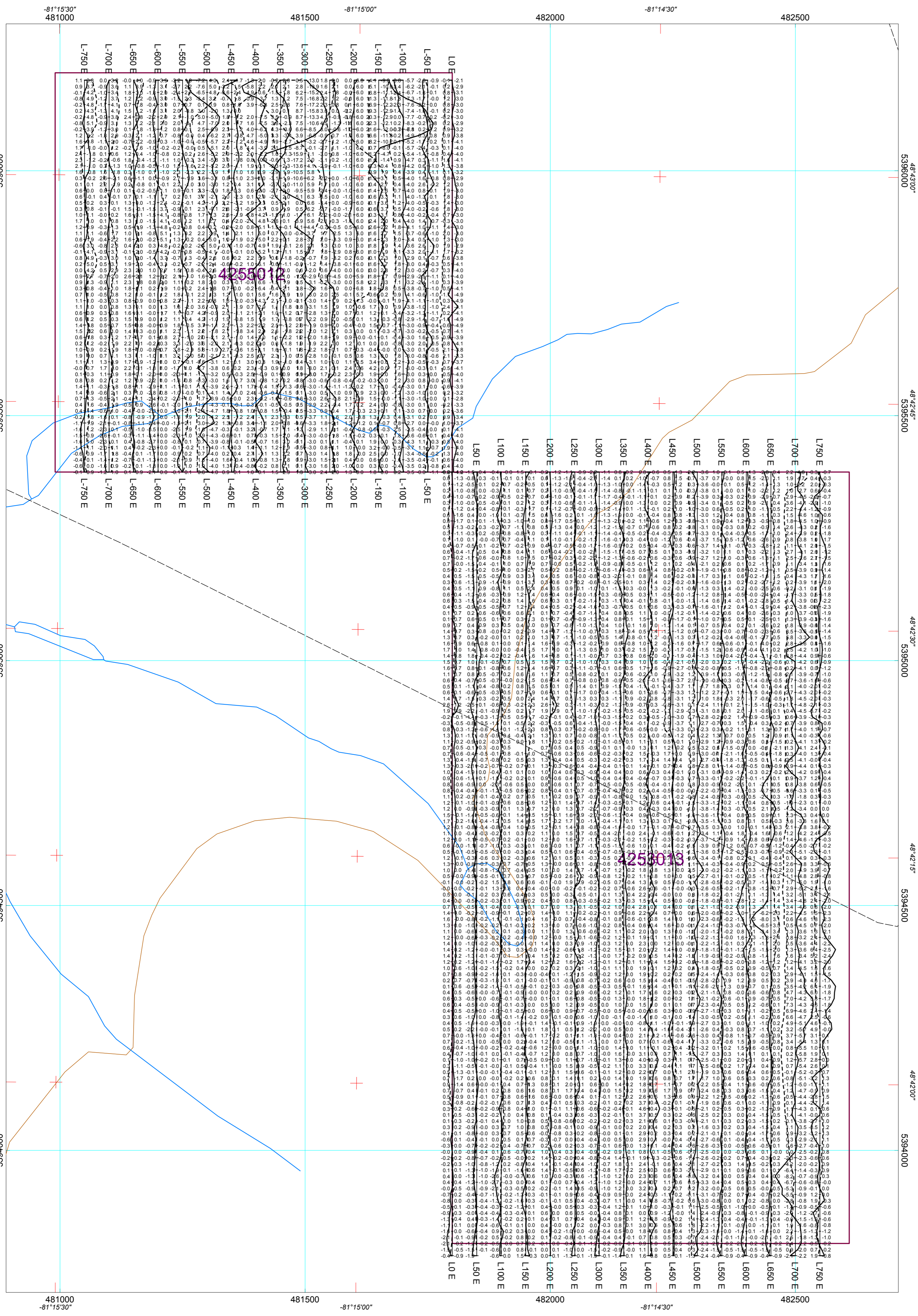
Gowest Gold Ltd.

NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON  
Ground Calculated Magnetic Vertical Derivative  
Shadowed Colour Image

Data Acquisition by  
Exsics Exploration Limited, Timmins, ON  
Data Processing & Presentation by  
CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_VD Image: VD Date: February 20, 2016





Specifications:  
 SURVEY TYPE:  
 Total Magnetic Intensity (TMI) and VLF-EM  
 MAGNETOMETER EQUIPMENT:  
 SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
 NOMINAL STATION SPACING:  
 50 and 12.5 METRES

VLF Profiles: solid lines / QU Profiles: dashed lines  
 Postings every 12.5 m / IP values west of line / QU values east of line

Scale 1:5000

100 0 100 200 300  
(metres)

NAD83 / UTM zone 17N NTS Map Sheet 42A/11

**Gowest Gold Ltd.**

**NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON**  
**Ground VLF-EM**  
**IP and QU Profiles and Postings**

Data Acquisition by  
 Exsics Exploration Limited, Timmins, ON  
 Data Processing & Presentation by  
 CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_VLF\_BW Image: - Date: February 20, 2016



-81°15'30" 481000 -81°15'00" 481500 482000 -81°14'30" 482500

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

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48°42'00" 5394000

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

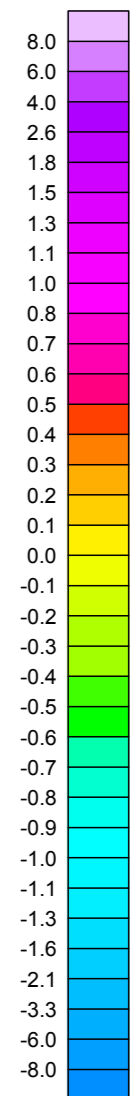
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48°42'00" 5394000

481000 -81°15'30" 481500 -81°15'00" 482000 -81°14'30" 482500

Specifications:

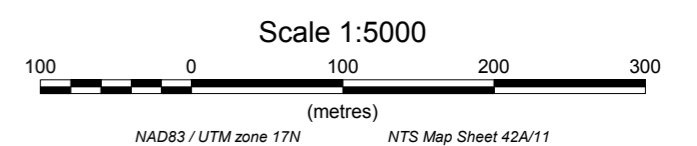
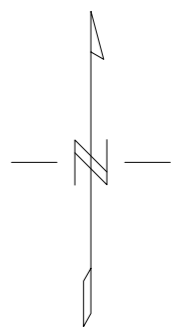
SURVEY TYPE:  
Total Magnetic Intensity (TMI) and VLF-EM  
MAGNETOMETER EQUIPMENT:  
SCINTREX ENVI MAG VLF (Cutler, Maine 24.0 kHz)  
NOMINAL STATION SPACING:  
50 and 12.5 METRES



Fraser-Filtered Tilt [-]

Minimum Curvature Gridding / Cell Size: 10 m

Contour Intervals [-]	Value
1	1
5	5
20	20
100	100



Scale 1:5000  
NAD83 / UTM zone 17N NTS Map Sheet 42A/11

Gowest Gold Ltd.

NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON  
Ground VLF-EM, NAA Cutler, Maine  
Fraser-Filtered Tilt Contoured Colour Image

Data Acquisition by  
Exsics Exploration Limited, Timmins, ON  
Data Processing & Presentation by  
CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1 VLF Image: Tilt\_FF Date: February 20, 2016

-81°15'30" 481000 -81°15'00" 481500 482000 -81°14'30" 482500

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

48°42'15" 5394500

48°42'00" 5394000

481000 -81°15'30"

481500 -81°15'00"

482000 -81°14'30"

482500

48°43'00" 5396000

48°42'45" 5395500

48°42'30" 5395000

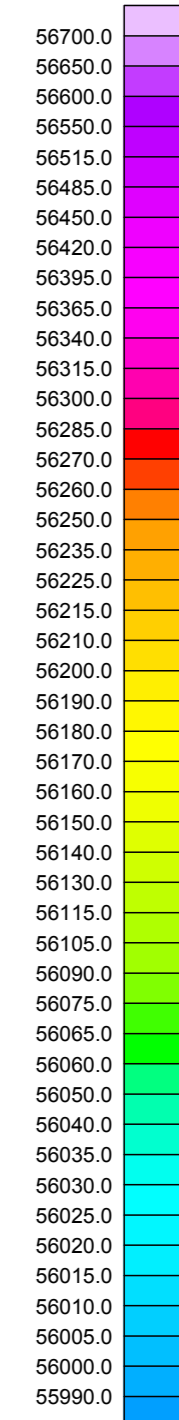
48°42'15" 5394500

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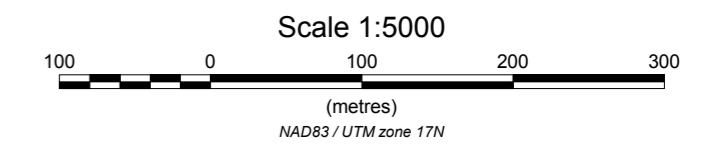
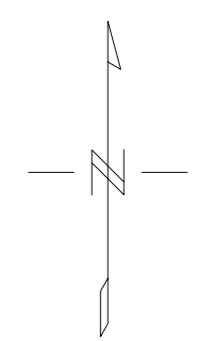
### LEGEND

Lithology based on O.G.S. map P425

- Umv Ultramafic Volcanics
- Gb Mafic Intrusives: Gabbro
- Mv Metavolcanics: Mafic dominant
- Ms Metasediments: greywacke, slate, argillite
- Interpreted fault
- Magnetic Modelling Prism



Total Magnetic Intensity [nT]



**Gowest Gold Ltd.**

**NORTH TIMMINS PROJECT, WARK 1 PROPERTY, ON**  
**Geophysical Interpretation Map**

Data Interpretation by  
Geomapping Ltd., Toronto, ON  
Data Processing & Presentation by  
CGI Controlled Geophysics Inc., Thornhill, ON

Map: Wark1\_Interp Image: - Date: February 19, 2016

