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April 16th 2019 **NTS Map 32/D/05**

Report of 2019 Total Field Magnetics Survey

JONATHAN CAMILLERI

Clifford Township

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Etobikoke, Ontario

M9C 1Y7

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Introduction

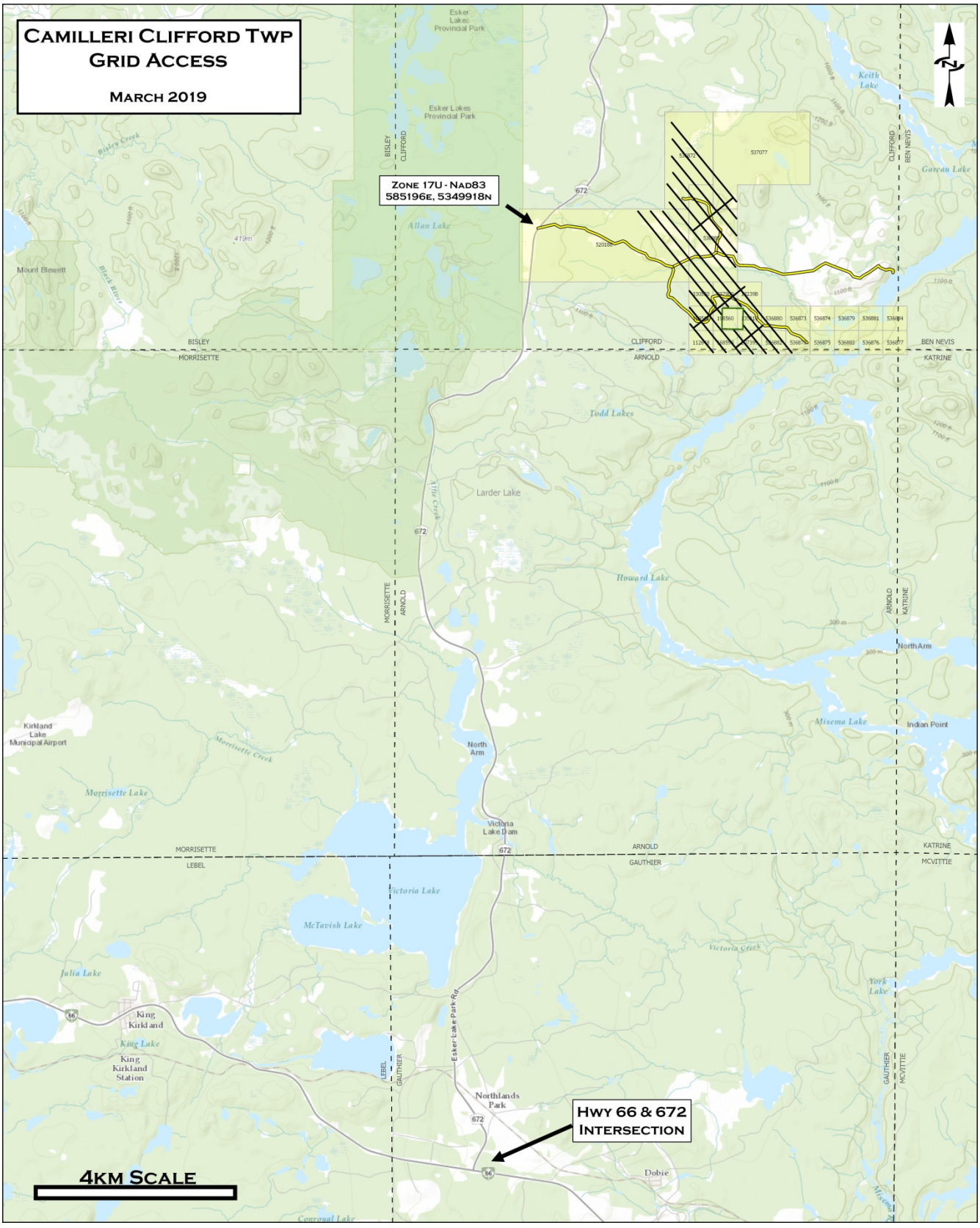
Dan Patrie Exploration Ltd was contracted by Jonathan Camilleri to perform a Total Field Magnetics GPS Survey of the claim group held by Jonathan in the township of Clifford. Dan Patrie Exploration commenced the survey with a crew of 4 workers on March 1st 2019 and concluded the field work by March 4th 2019.

The contiguous claim group consists of 12 unpatented mining claims. The center of the claim group is located at UTM 17 U 588725mE, 5348450mN (Nad 83) approximately 22.5km south/west of the town of Kirkland Lake, Ontario. (Refer to **Map A -** Access Map/**Map B** - Claim Group Map)

Property Access

The town of Kirkland Lake was used for accommodations and supplies during the work period. Direct access to the property was obtained by pickup trucks via Hwy 66 and Hwy 672. From Hwy 672 an old bush access road is currently still accessible by pickup truck. A detailed access map is provided (**Map A** – Clifford Access Map).

Map A – Clifford Access Map



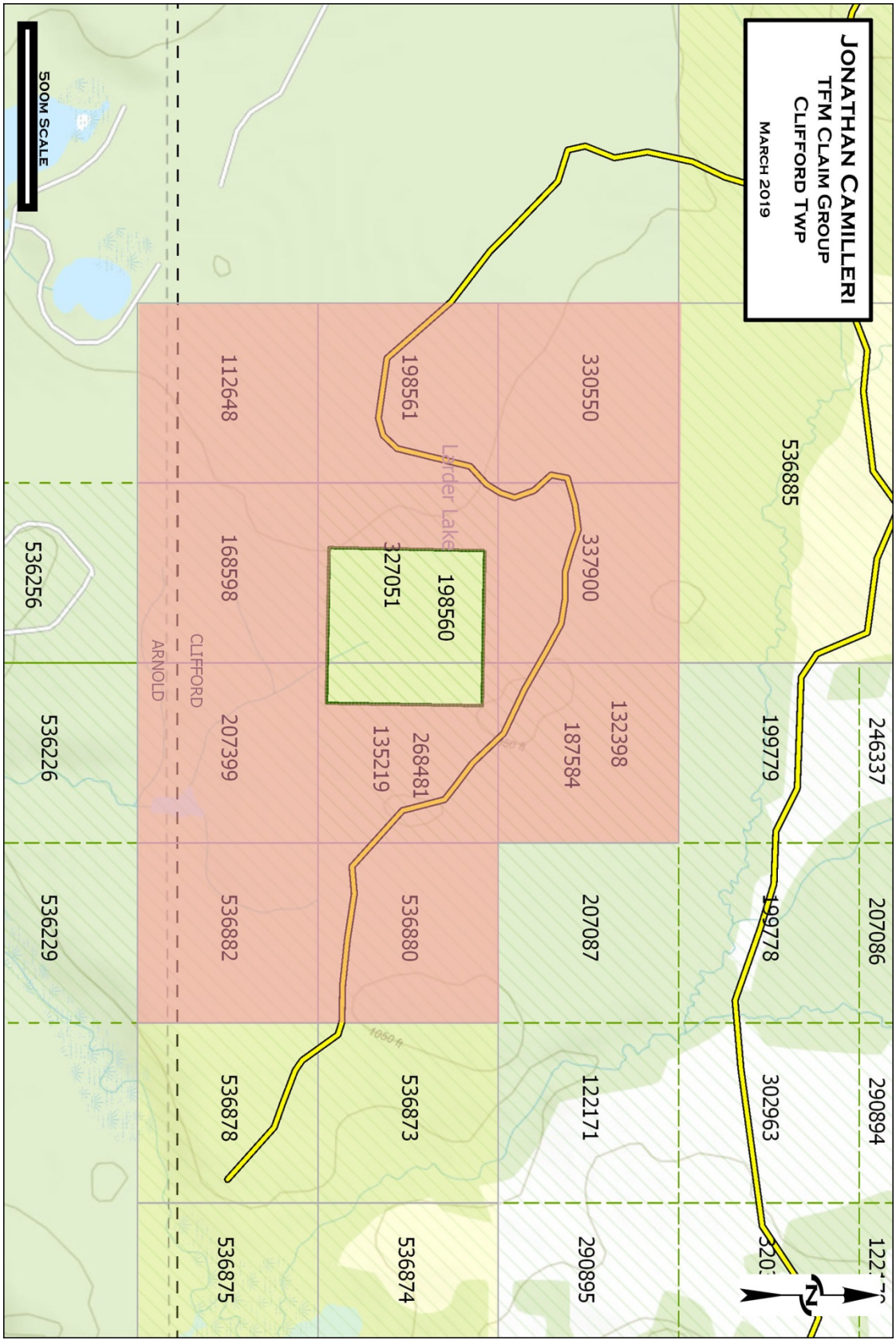
Claim Group

The Following Map and table lists the 12 unpatented mining claims in Clifford Township within the Camilleri claim group where the GPS MAG ground survey was conducted (**Figure 1 & Map B**)

Figure 1 - Clifford Camilleri Claim Group

Township / Area	Tenure ID	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Work Applied
CLIFFORD	132398	2019-05-05	Active	100	200	0
CLIFFORD	135219	2019-05-05	Active	100	200	0
CLIFFORD	198560	2019-05-05	Active	100	200	0
ARNOLD,CLIFFORD	112648	2019-05-05	Active	100	400	0
ARNOLD,CLIFFORD	168598	2019-05-05	Active	100	400	0
CLIFFORD	198561	2019-05-05	Active	100	400	0
ARNOLD,CLIFFORD	207399	2019-05-05	Active	100	400	0
CLIFFORD	330550	2019-05-05	Active	100	400	0
CLIFFORD	337900	2019-05-05	Active	100	400	0
ARNOLD,CLIFFORD	536878	2020-12-17	Active	100	400	0
CLIFFORD	536880	2020-12-17	Active	100	400	0
ARNOLD,CLIFFORD	536882	2020-12-17	Active	100	400	0

Map B – Camilleri TFM Claim Group



Work Performed

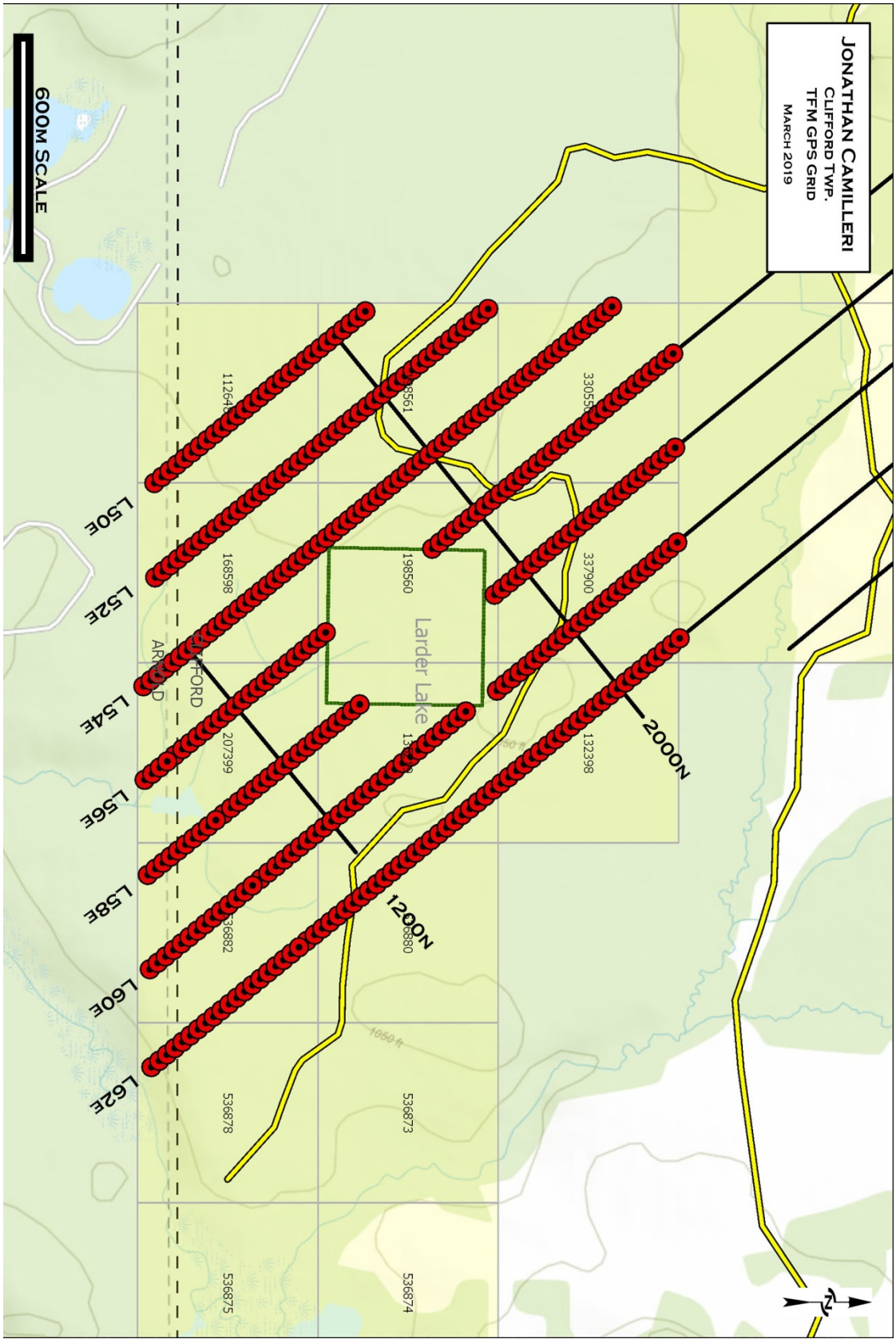
A 9.4km 320° azimuth GPS grid was established covering the Camilleri Clifford claims consisting of 7 lines at 200m intervals. Using Garmin GPSMap 64 GPS units the DPE team walked the grid in pairs with one worker navigating to each station at 25m intervals, while the second worker of each team followed behind recording readings with the Scintrex ENVIMAG magnetometer. **Figure 2** (Line Totals) and **Map C** (Grid Map) represent the grid lines used to conduct the survey. **Map D** displays the survey result in the form of a detailed contoured map.

Figure 2 – Camilleri Clifford Grid Line Totals

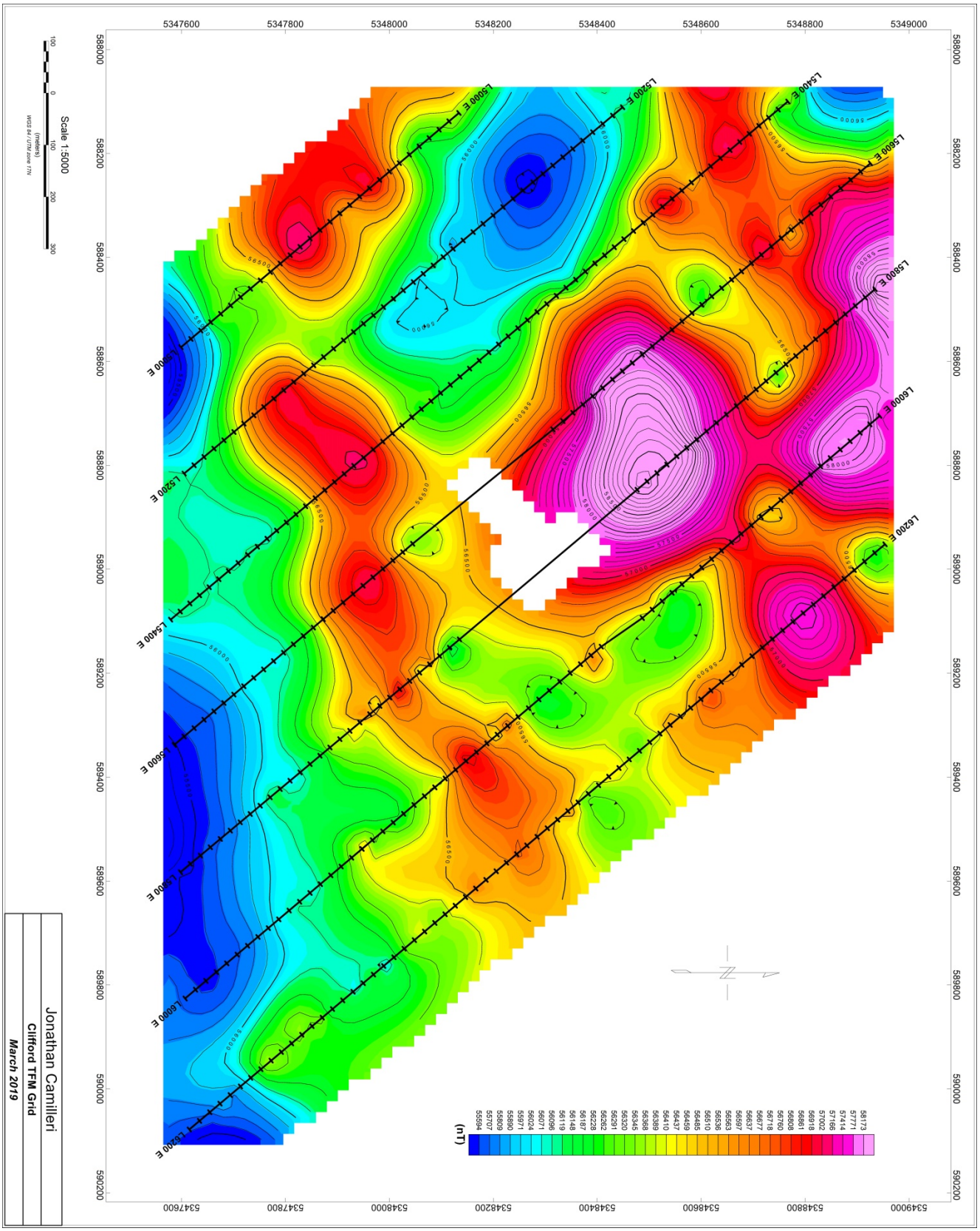
Line		Start	End	Total(m)
L5000E		1400N	2100N	700
L5200E		1250N	2350N	1100
L5400E		1000N	2600N	1600
L5600E		900N	1500N	600
L5600E		1850N	2650N	800
L5800E		750N	1450N	700
L5800E		1900N	2500N	600
L6000E		650N	1650N	1000
L6000E		1750N	2350N	600
L6200E		500N	2200N	1700

GRID TOTAL 9.4KM

Map C – Clifford Grid Map



Map D – Clifford TFM Contour Map



Equipment Secifications

Scintrex ENVIMAG magnetometers (**Figure 3**) were used to conduct the survey. All data was base corrected using a third ENVIMAG at a fixed location for the entirety of the survey. The base station was located approximately 3.5km north/west of the survey grid at UTM 17 U 585820mE, 5349960mN(NAD83). All ENVIMAG's were synchronized and calibrated to the base field of 55550nT.

Figure 3 – ENVIMAG Specifications

EQUIPMENT
REFERENCE: SCINTREX ENVI MAG BROCHURE

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 alphanumerics

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: (with staff extender)	70mm x 675mm (2.75"d x 26.5") 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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Recomendations

Dan Patrie Exploration Ltd. recommends establishing a line cutting grid on this property and the surrounding contiguous Camilleri claims followed by an induced polarization survey covering at minimum the anomalous areas indicated by the TFM survey . Proposed would be a 20 to 30km grid of line cutting and IP.

Personnel

Gabriel Roy - Smooth Rock Falls, Ontario
Ronald Bilton – Massey, Ontario
Hunter Busch – Val Caron, Ontario
Justin Abramson – Sudbury, Ontario

Camilleri Clifford Twp
Grid Access

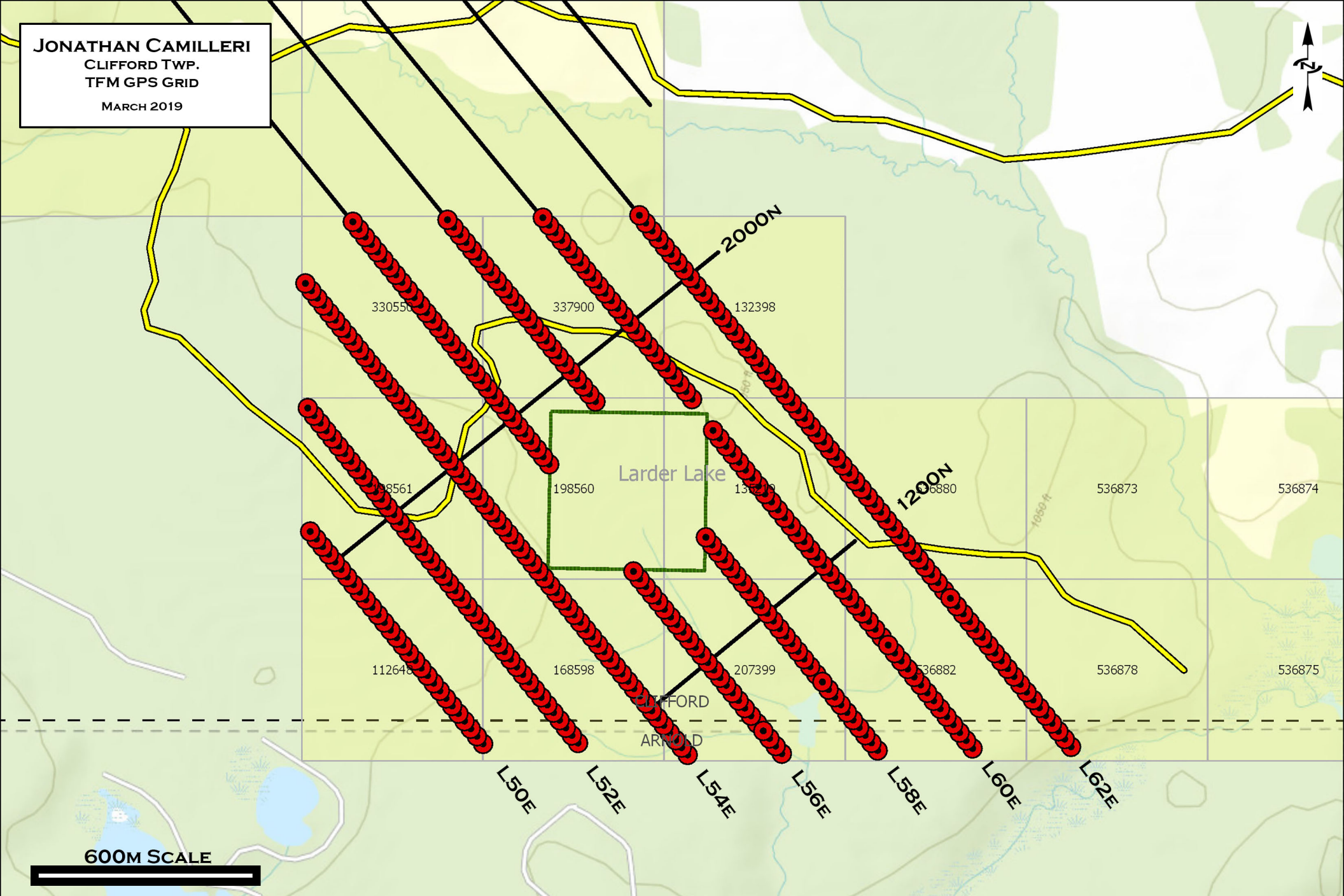
March 2019

Zone 17U - Nad83
585196E, 5349918N

536872
537077
520188
536882
330550
537901
132398
198560
536880
536873
536874
536879
536881
536884
112648
168552
207391
536882
536878
536875
536883
536876
536877

Hwy 66 & 672
Intersection

4km Scale


Jonathan Camilleri
Clifford Twp.
TFM GPS Grid
March 2019
N
2000N
1200N
330550
337900
132398
198561
198560
536873
536874
112648
168598
207399
536878
536875
Larder Lake
CLIFFORD
ARNOLD
L50E
L52E
L54E
L56E
L58E
L60E
L62E
600m Scale

588000 588200 588400 588600 588800 589000 589200 589400 589600 589800 590000 590200

5349000 5348800 5348600 5348400 5348200 5348000 5347800 5347600

L5600 E L5800 E L6000 E L6200 E L5400 E L5200 E L5000 E

58173
57771
57414
57166
57002
56918
56861
56808
56760
56718
56677
56637
56597
56563
56536
56510
56485
56459
56437
56410
56389
56368
56345
56320
56291
56262
56228
56187
56148
56119
56096
56071
56024
55971
55890
55809
55707
55594
(nT)

Scale 1:5000

100 0 100 200 300

(meters)

WGS 84 / UTM zone 17N

Jonathan Camilleri
Clifford TFM Grid
March 2019