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November 22<sup>h</sup> 2019

NTS Map 41/O/09

# **Report of 2019 Gradient IP Survey**

**JONATHAN CAMILLERI**

**Osway Township Claim Group**

Report Prepared by

**Dan Patrie Exploration Ltd.**

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On Behalf of

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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 Gradient Induced Polarization Survey of the claim group held by Jonathan in the township of Osway. Dan Patrie Exploration commenced the survey with a crew of 4 workers on November 11<sup>th</sup> 2019 and concluded the field work by December 10<sup>th</sup> 2019.

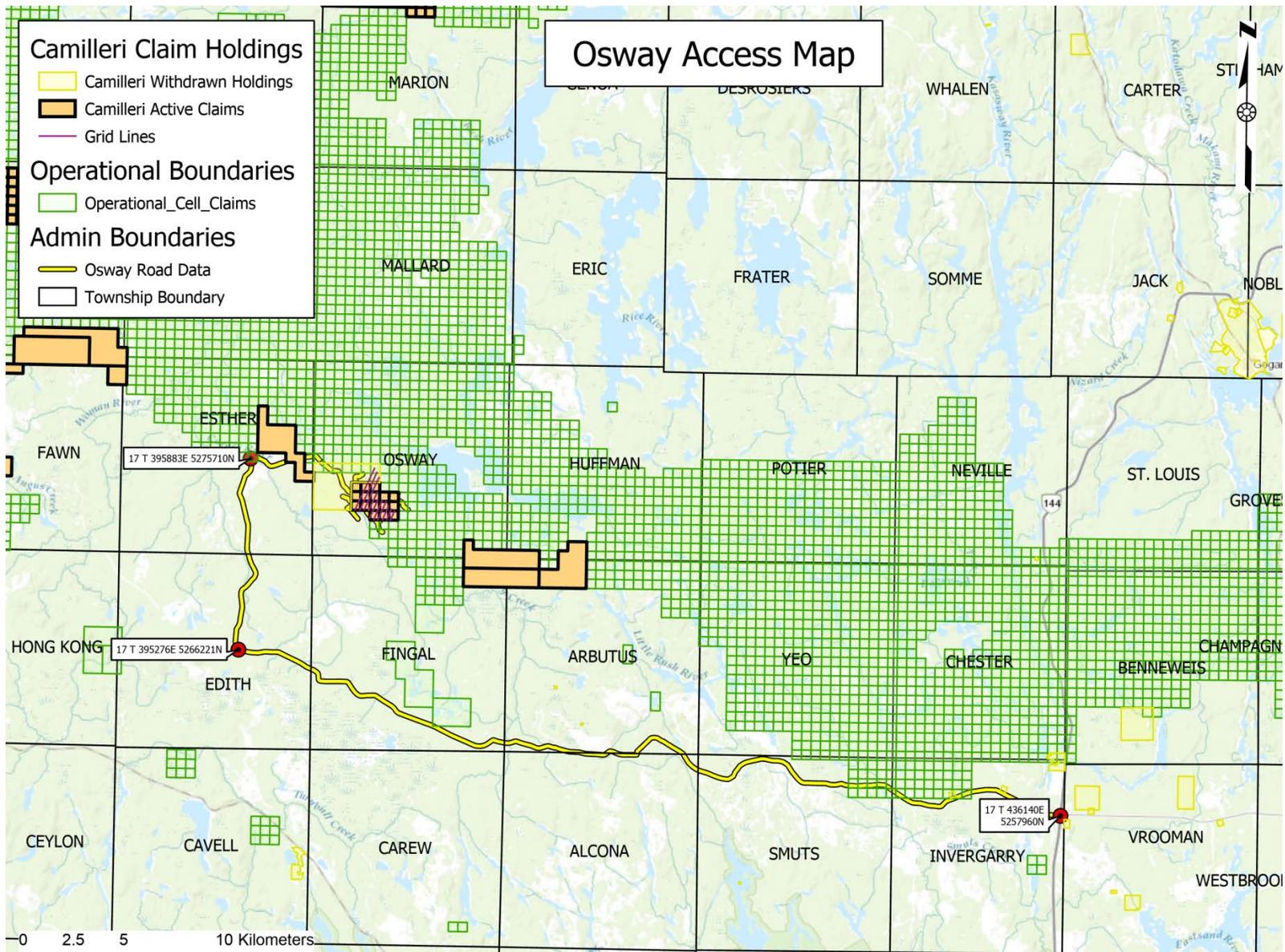
The contiguous claim group consists of 16 unpatented cell claims. The center of the claim group is located at UTM 17 T 402048mE, 5273663mN (Nad 83) approximately 46km south/west of the town of Gogama, Ontario. (Refer to **Map A** - Access Map/**Map B** - Claim Group Map)

## Property Access

The town of Gogama was used for accommodations and supplies during the work period. Direct access to the property was obtained by pickup trucks via Hwy 144, the Sultan Industrial road to the Mallard logging road. From the Mallard road a crossover trail to the old Jerome mine road was used and is currently still accessible by pickup truck. A detailed access map is provided below (**Map A** – Osway Access Map)

# Osway Access Map

- Camilleri Claim Holdings**
- Camilleri Withdrawn Holdings
  - Camilleri Active Claims
  - Grid Lines
- Operational Boundaries**
- Operational\_Cell\_Claims
- Admin Boundaries**
- Osway Road Data
  - Township Boundary



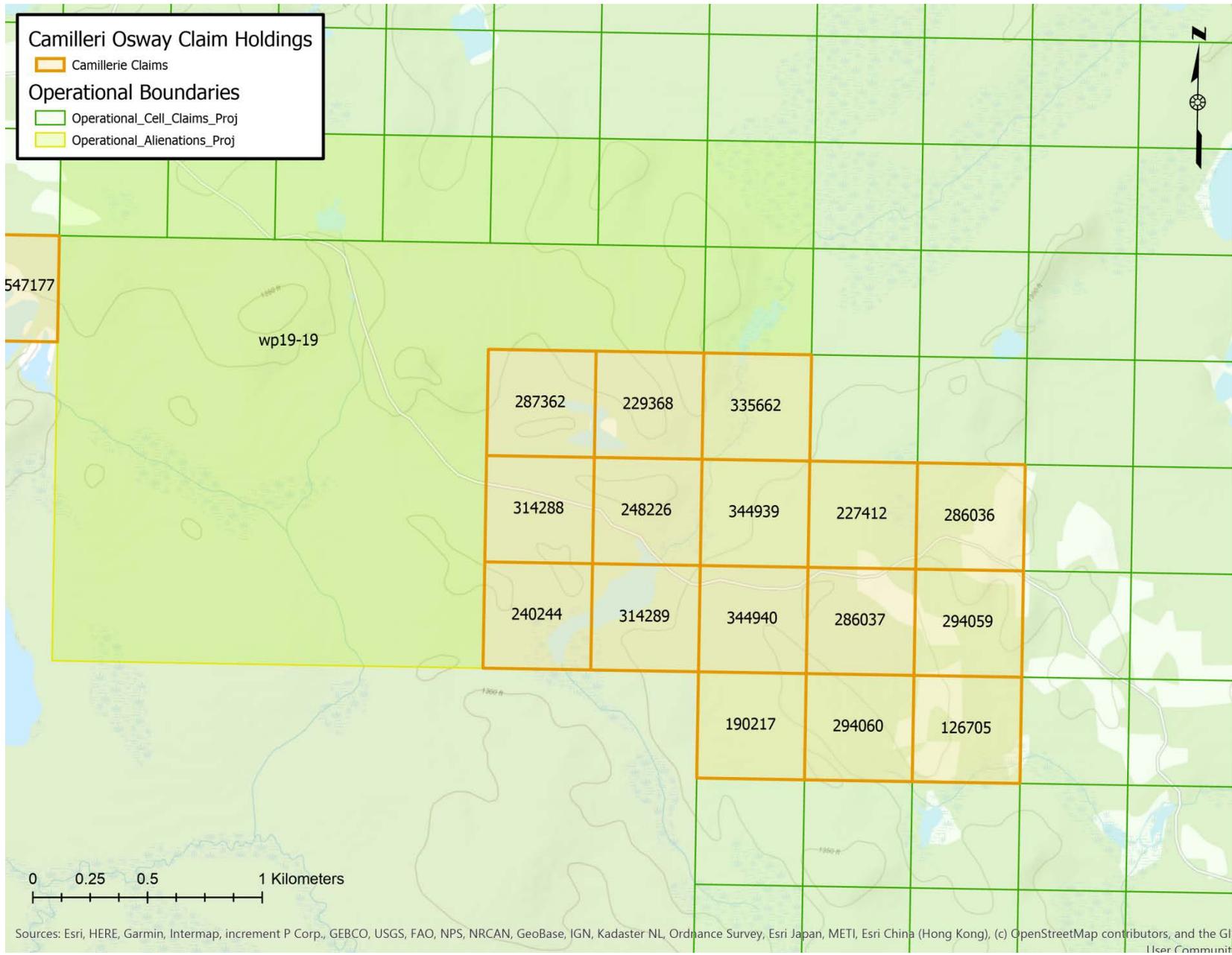
Source: Esri, HERE, Garmin, Intel, increment P Corp., GEBCO, CNES, FAO, NPS, NRCAN, GEBCO, Radaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# Claim Group

The Following Map and table lists the 16 unpatented mining claims in Osway Township within the Camilleri claim group where the gradient survey was conducted (**Figure 1 & Map B**)

**Figure 1 - Osway Camilleri Claim Group**

Township / Area	Tenure ID	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Work Applied	Total Reserve
OSWAY	344939	2019-12-14	Active	100	200	200	335
OSWAY	335662	2019-12-14	Active	100	200	200	271
OSWAY	126705	2019-12-14	Active	100	200	200	114
OSWAY	294060	2019-12-14	Active	100	200	200	0
OSWAY	294059	2019-12-14	Active	100	200	200	0
OSWAY	286036	2019-12-14	Active	100	200	200	0
OSWAY	227412	2019-12-14	Active	100	200	200	0
OSWAY	190217	2019-12-14	Active	100	200	200	0
OSWAY	229368	2019-12-14	Active	100	400	400	0
OSWAY	344940	2019-12-14	Active	100	400	400	7
OSWAY	314289	2019-12-14	Active	100	400	400	0
OSWAY	314288	2019-12-14	Active	100	400	400	242
OSWAY	287362	2019-12-14	Active	100	400	400	274
OSWAY	248226	2019-12-14	Active	100	400	400	28
OSWAY	240244	2019-12-14	Active	100	400	400	0
OSWAY	286037	2019-12-14	Active	100	400	400	317

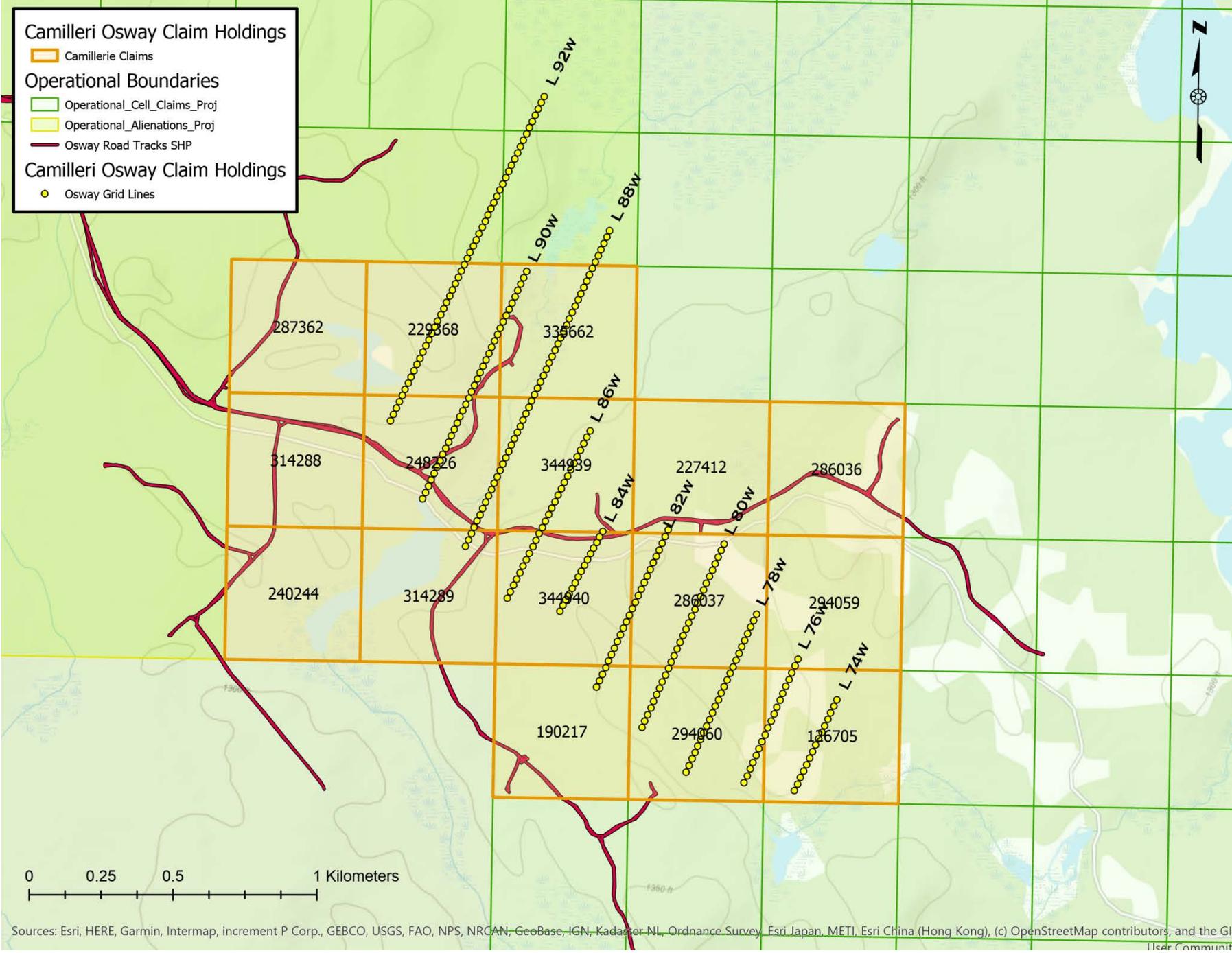


## Work Performed

A 7.15km 204° azimuth grid was established covering the Camilleri Osway claims consisting of 10 lines at 200m intervals. **Figure 2** (Line Totals) and **Map C** (Grid Map) represent the grid lines used to conduct the survey.

Figure 2 – Camilleri Osway Grid Line Totals

<b>Line</b>	<b>Start</b>	<b>End</b>	<b>Length (m)</b>
<b>74w</b>	4600s	4950s	<b>350</b>
<b>76w</b>	4450s	4900s	<b>450</b>
<b>78w</b>	4450s	5050s	<b>600</b>
<b>80w</b>	4250s	4950s	<b>700</b>
<b>82w</b>	4300s	4900s	<b>600</b>
<b>84w</b>	4400s	4750s	<b>350</b>
<b>86w</b>	4150s	4800s	<b>650</b>
<b>88w</b>	3450s	4700s	<b>1250</b>
<b>90w</b>	3700s	4600s	<b>900</b>
<b>92w</b>	3100s	4400s	<b>1300</b>
<b>Total</b>			<b>7.15KM</b>



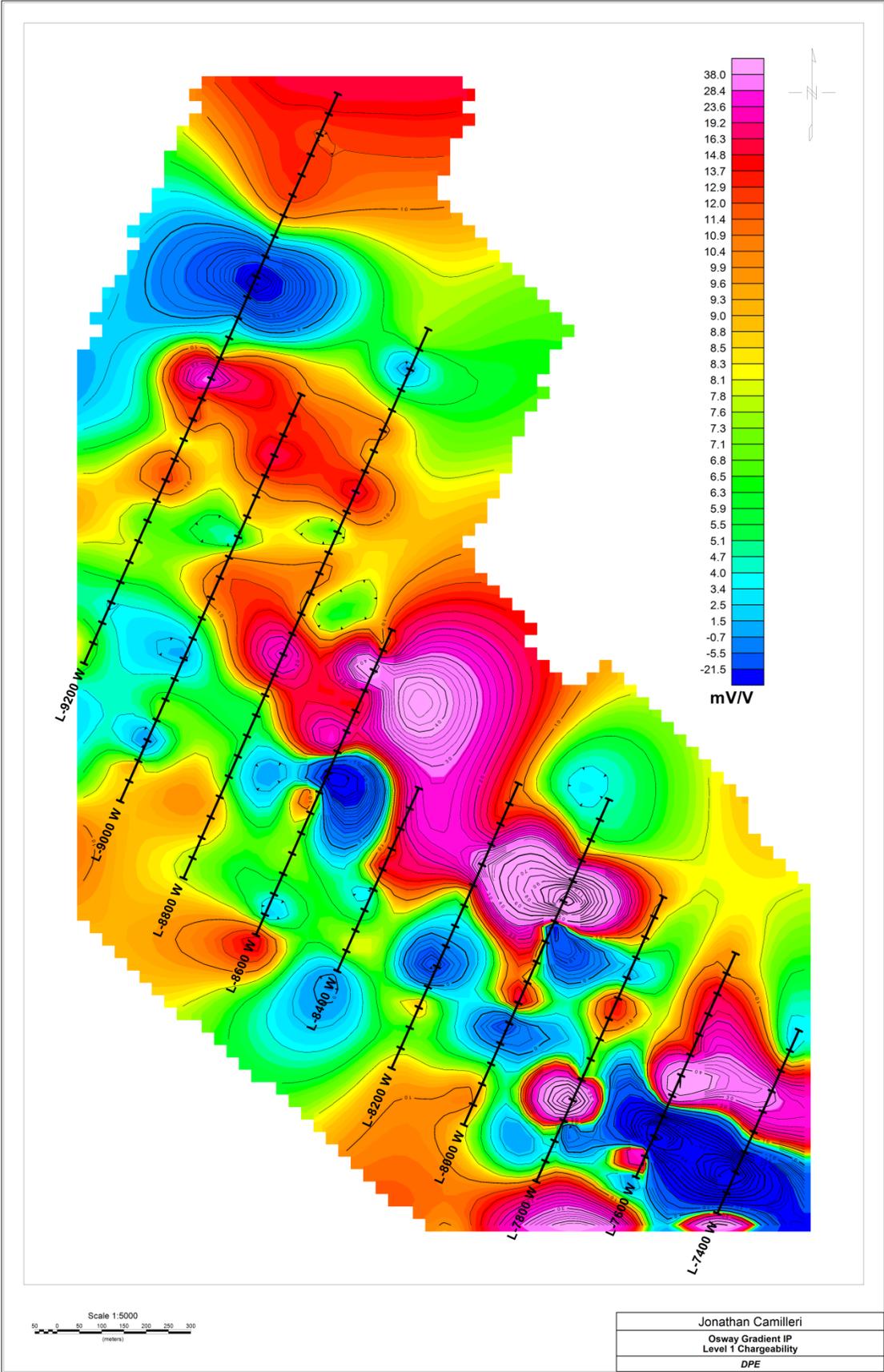
287362 229368 335662

314288 248226 344939 227412 286036

240244 314289 344940 286037 294059

190217 294860 126705

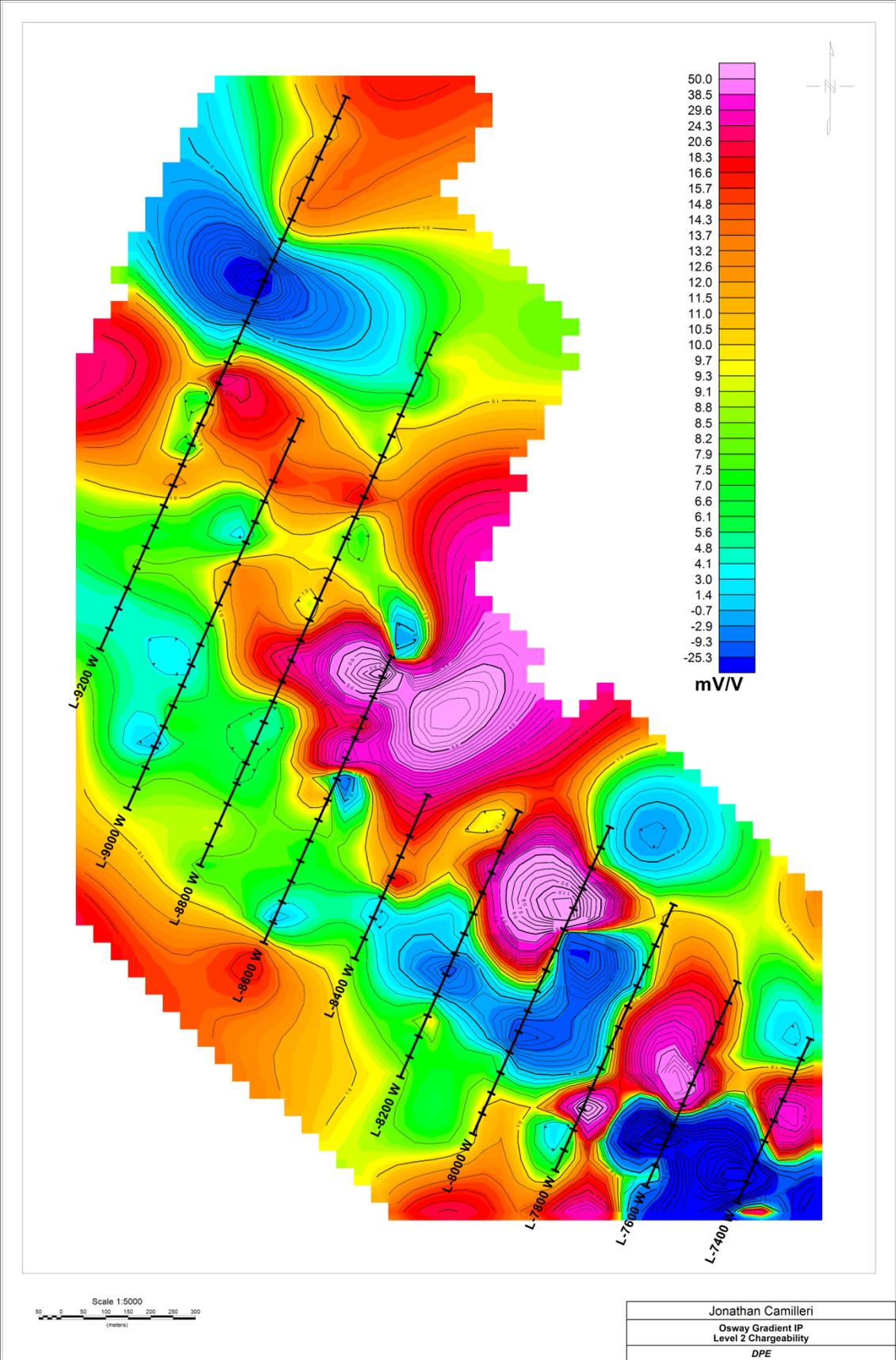
L 92W L 90W L 88W L 86W L 84W L 82W L 80W L 78W L 76W L 74W

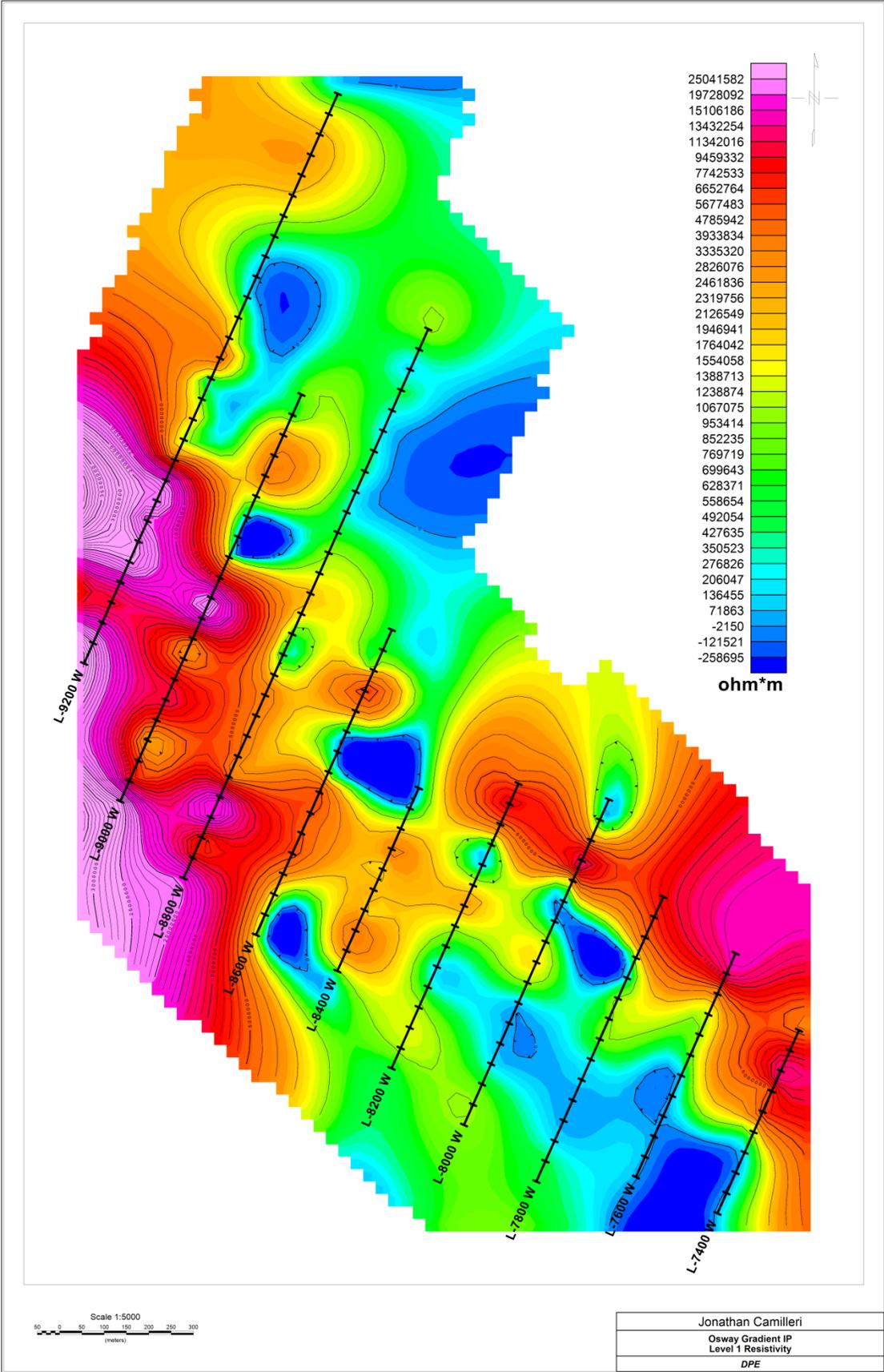


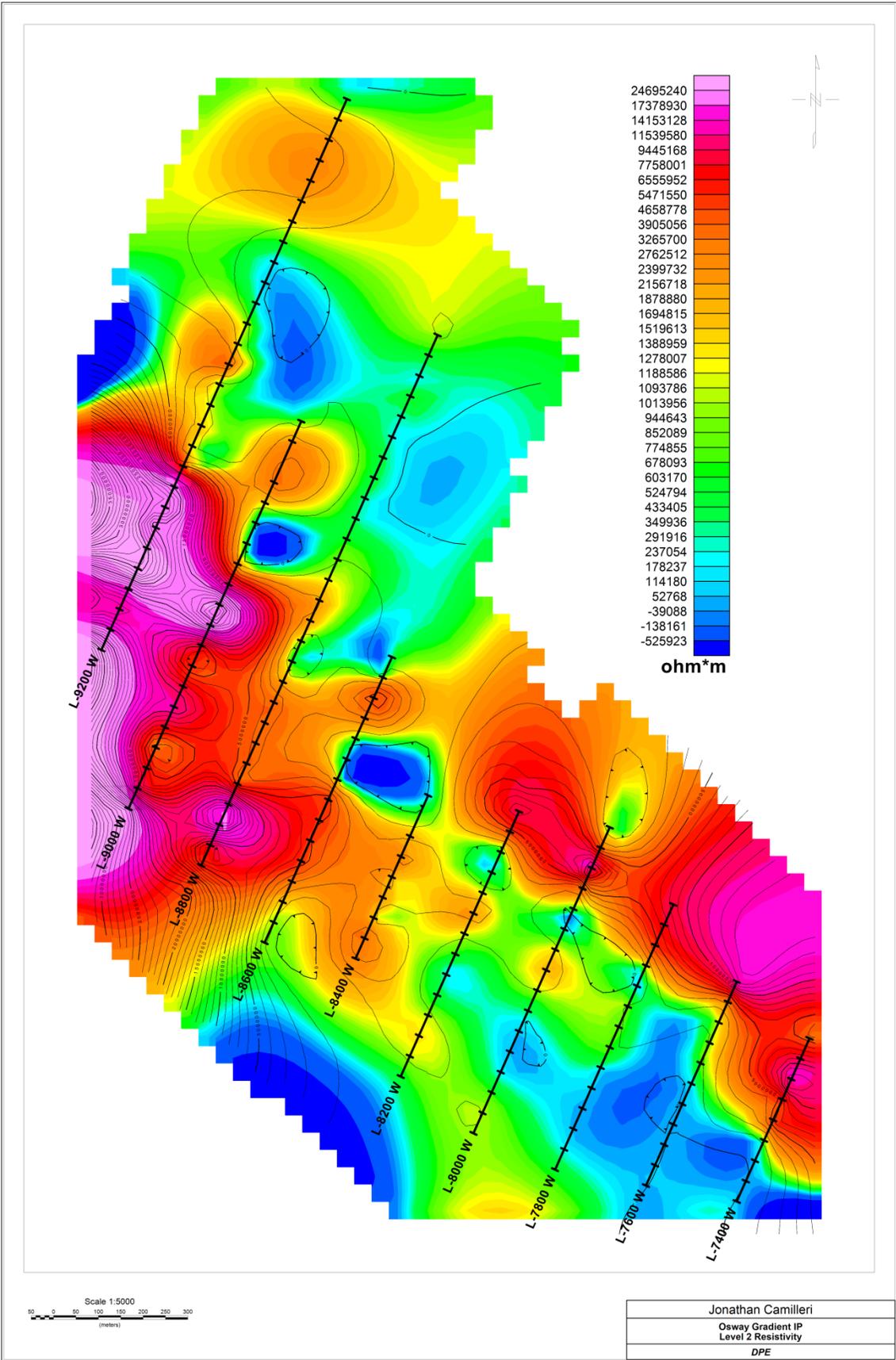
Jonathan Camilleri

Osway Gradient IP  
Level 1 Chargeability

DPE







24695240  
 17378930  
 14153128  
 11539580  
 9445168  
 7758001  
 6555952  
 5471550  
 4658778  
 3905056  
 3265700  
 2762512  
 2399732  
 2156718  
 1878880  
 1694815  
 1519613  
 1388959  
 1278007  
 1188586  
 1093786  
 1013956  
 944643  
 852089  
 774855  
 678093  
 603170  
 524794  
 433405  
 349936  
 291916  
 237054  
 178237  
 114180  
 52768  
 -39088  
 -138161  
 -525923

**ohm\*m**

Jonathan Camilleri  
 Osway Gradient IP  
 Level 2 Resistivity  
 DPE

# Instrumentation Specifications

Figure 4, Scintrex IPR-12 Receiver



## IPR-12 SPECIFICATIONS

The IPR-12 IP receiver has been successfully used for many years as a mineral exploration tool, specifically for gold exploration.

Induced polarization can also be used as a method for mapping hydrocarbon plumes and geotechnical applications.

Inputs:	1 to 8 dipoles are measured simultaneously.
Input Impedance:	16 M $\Omega$
SP Bucking:	$\pm 10$ volt range. Automatic linear correction operating on a cycle by cycle basis.
Input Voltage (Vp) Range:	50 $\mu$ V to 14 V
Chargeability (M) Range:	0 to 300 mV/V
Tau Range:	60 microseconds to 2000 seconds.
Reading Resolution of Vp, SP and M:	Vp - 10 $\mu$ V; SP - 1 mV; M - 0.01 mV/V
Absolute Accuracy of Vp, Sp and M:	Better than 1%
Common Mode Rejection:	At input more than 100dB.
Vp Integration Time:	10% to 80% of the current on time.
IP Transient Program:	Pulse selectable at 1,2,4,8,16 or 32 seconds. Programmable windows also available. 50% duty cycle.
Transmitter Timing:	On/off times of 1,2,4,8,16 or 32 seconds.
External Circuit Test:	All dipoles measured individually in sequence. Range 0 to 2 M $\Omega$ with 0.1 k $\Omega$ resolution. Circuit resistances displayed and recorded.
Filtering:	RF filter, 10 Hz 6 pole low pass filter, statistical noise spike removal.
Internal Test Generator:	1200 mV of SP; 807 mV of Vp and 30.28 mV/V of M.
Analog Meter:	For monitoring input signals; switchable to any dipole via keyboard.
Memory Capacity:	Stores approximately 400 dipoles of information when 8 dipoles are measured simultaneously.
Power Supply:	Rechargeable Ni-Cad D cells. More than 20 hours service at +25°C. (77°F), more than 8 hours at -30°C (-22°F)
Operating Temperature:	-30°C to +50°C (-22°F to 122°F)
Dimensions and Weights:	Console: 355 x 270 x 165 mm (14" x 10.6" x 6.5") Charger: 120 x 95 x 55 mm (4.7" x 3.7" x 2") Console: 5.8 kg (12.8 lbs.) Batteries: 1.3 kg (2.8 lbs.) Charger: 1.1 kg (2.4 lbs.)

Figure 5, Walcer TX-KW10 Transmitter & Walcer MG-12A Generator



**Gasoline Tank**  
External - to minimize shipping problems with airlines

## MG-12A

**Output**  
Self Excite / Regulated  
120 / 220V AC  
20 KVA Max  
400 Hz / 3 phase

**Generator**  
Bendix Aircraft Type  
Very durable  
Forced Air Cooled

**Engine**  
24 HP Honda  
Electric Start

**Size**  
79cm. x 61cm. x 48cm.

**Weight**  
89 kg.

## Walcer Model TX KW10



**Voltage Input**  
125V line to neutral  
400 Hz / 3 phase  
Powered by MG12, MG6 and MG12A

**Output**  
100 - 3200V in 10 steps  
0.05 - 20 Amps  
Tested to 10.5 kVA

**Switching**  
1 sec., 2 sec., 4 sec., 8 sec.

**Metering**  
LED for line voltage  
and output current

**Size**  
63cm. x 54cm. x 25cm.

**Weight**  
44 kg.

# **Personnel**

Jimmy Patrie – Massey, Ontario

Gabriel Roy - Smooth Rock Falls, Ontario

Ronald Bilton – Massey, Ontario

Justin Abramson – Sudbury, Ontario

Ministry of Energy, Northern  
Development and Mines

Mineral Development and Lands Branch

Ontario Government Complex – E Wing  
PO Bag 3060, 5520 Highway 101 East  
South Porcupine, ON, P0N 1H0  
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Ministère de l'Énergie, du Développement du  
Nord et des Mines

Direction de l'exploitation des minéraux et de la  
gestion des terrains miniers

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Sac postal 3060, 5520 Route 101 Est  
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Tél: (705) 235-1625  
Télé: (705) 235-1660



**October 11, 2019**

Mr. Jonathan Camilleri  
33 Redstone Path,  
Etobicoke, ON, M9C 1Y7

Dear Mr. Camilleri,

**Re: Exploration Plan Application, PL-19-000134  
Camilleri Mallard Grid Project; Osway township; District of Sudbury**

We acknowledge receipt of the exploration plan you have submitted to the Ministry of Energy, Northern Development and Mines (ENDM) for the project noted above.

Pursuant to the *Mining Act*, its regulations, and the Crown's duty to consult, ENDM notifies Aboriginal communities which may exercise Aboriginal or treaty rights in the area of proposed early exploration activities. ENDM identifies these communities based on our current understanding, which continues to develop over time.

A copy of your submitted exploration plan was sent to the Aboriginal communities listed at the bottom of this letter on **October 11, 2019**. We have requested that any comments they may have with respect to potential adverse effects of the proposed activities on their Aboriginal and or treaty rights be provided to ENDM. Depending on comments we receive, we may require your direct participation in this consultation process to further explain your activities or to consider adjustments you may be willing to make to mitigate any potential adverse effects identified. We will provide specific direction in this regard case-by-case, as necessary.

You should also document any discussions that you have directly with Aboriginal communities, whether those discussions are pursuant to direction you may receive from ENDM or for your own business reasons. Those discussions may further inform our decision-making and should be reported to us through an Aboriginal Consultation Report accessible at:  
[http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/GetFileAttach/019-0313E~1/\\$File/0313E.pdf](http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/GetFileAttach/019-0313E~1/$File/0313E.pdf). Please also advise us if you are contacted directly by communities not listed below.

In conducting Aboriginal consultation, circumstances may arise that lead the Director of Exploration to decide that an exploration permit is required for some or all of the early exploration activities proposed in your exploration plan. If that should happen, you will be advised in writing and ENDM will explain the process to be followed to obtain an exploration permit.

Unless otherwise directed by the Director of Exploration, the activities included in your exploration plan can commence on **November 10, 2019**. The exploration plan is effective for a period of two years from that date.

ENDM also encourages proponents and communities to engage directly with one another to build relationships as projects advance. More information about ENDM's approach to Aboriginal consultation, and our consideration and encouragement of arrangements, can be found in ENDM's policy: *Consultation and Arrangements with Aboriginal Communities at Early Exploration*, which is available at: [http://www.ENDM.gov.on.ca/sites/default/files/aboriginal\\_exploration\\_consultation\\_policy.pdf](http://www.ENDM.gov.on.ca/sites/default/files/aboriginal_exploration_consultation_policy.pdf).

Please also be reminded that information you provide through this process will generally be considered a part of the public record of the Province of Ontario.

If you have any questions regarding this letter or the exploration plan, its review or the comment period, please contact Andrew Persad, Mineral Exploration and Development Consultant at (705) 363-6887 or by e-mail to [andrew.persad@ontario.ca](mailto:andrew.persad@ontario.ca)

Sincerely,



Clara Lauziere  
Director of Exploration

**Notified Communities;**

- Métis Nation of Ontario – Region 3
- Mattagami First Nation
- Flying Post First Nation

## **Work Interpretation and Recommendations**

The primary commodity of the Camilleri Osway property is gold.

The current geophysical and line cutting project was successful at identifying multiple shallow anomalous areas to the North and East sections of the grid suitable for a shallow depth drilling program.

With that in mind Dan Patrie Exploration suggest additional gradient IP covering the entire property at 200m spacing and potentially, a more in-depth 6 level pole-dipole survey at 100m spacing where hi-chargeability target areas are identified to more accurately establish the potential gold bearing ore bodies of the entire property before continuing with a drilling program.

In conclusion the Camilleri Osway property has very good gold bearing probabilities with neighboring claims owned by large mining companies and the old Jerome Mine nearby.