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Assessment Report on a Helicopter-borne Versatile Time Domain Electromagnetic and Horizontal Magnetic Gradiometer Geophysical Survey on the EPSG 6660 Project

La Sarre Area, Northern Abitibi

Abbotsford, Adair, Scapa, Hepburn, Bonis, and Sargeant Townships

Prepared for: Bay Capital Markets Inc.

By: Kelly Malcolm, P.Geo (Ontario)

Effective Date: November 30, 2021

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Summary

This report discusses a 3,520 line-km helicopter-borne versatile time domain electromagnetic and horizontal magnetic gradiometer geophysical survey on the EPSG 6660 Project, located in Ontario and Quebec near the town of La Sarre, Quebec. Of this survey, 2,268 line-km were flown in Ontario and 1,129 line-km were flown in Quebec (excluding re-flights) at a line spacing of 100 metres with 1,000 metre tie lines. The survey was conducted between August 12, 2021 and October 28, 2021 by Geotech Ltd. of Aurora, Ontario. Jadeite Capital Ltd. of Toronto, Ontario, supervised the survey for the registrant of the claims, Bay Capital Markets Inc. of Montreal, Quebec. Kelly Malcolm, P.Geo., of Toronto, Ontario reviewed the survey data and wrote this report for assessment reporting purposes. The objective of the survey was to identify targets for follow-up work for base metal and gold mineralization, utilizing the electromagnetic ("EM") data for potential targets for sulfide mineralization and the magnetic data to identify potential structures for gold mineralization. The survey was successful at identifying discrete conductors that are coincident with historical gold and base metal mineral occurrences (Ontario Mineral Inventory) along with several historically untested conductors. These conductors should be modelled and inverted to provide potential trenching and drilling targets. In addition to the EM anomalies identified, the magnetic dataset indicates structural complexity that should be subjected to a detailed interpretation to best identify favourable structures for gold mineralization.

Mining Lands on Which Survey Was Performed

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540073	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J118
540074	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J098
540075	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J119
540076	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J132
540077	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J112
540078	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J095
540079	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J116
540080	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J105
540081	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J126
540082	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J085
540083	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J106
540084	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J086
540085	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J084
540086	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J125
540087	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J124
540088	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J104
540131	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13J123
540132	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I055
540133	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I092
540134	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I057

540135	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I089
540136	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I114
540137	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I137
540138	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I117
540139	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I113
540140	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I056
540141	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I097
540142	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I077
540143	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I091
540144	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I095
540145	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I075
540146	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I076
540147	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I036
540148	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I017
540149	2019-01-27	2022-01-27	(100) Bay Capital Markets Inc.	Hepburn	32D13I094
539265	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04A001
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539304	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04A003
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534575	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A010
534576	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A011
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534578	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A013

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534580	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A015
534581	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A016
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534586	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A033
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534595	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A054
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539293	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04A067
539308	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04A068
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534745	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A081

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565957	2019-12-04	2021-12-04	(100) Bay Capital Markets Inc.	Adair	32E04A095
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534777	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A103
534772	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04A104
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534693	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04B092
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534764	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04B097
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534758	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04B118
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539234	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G299
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539235	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G315
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539178	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G333
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539244	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G357
539239	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G358
539253	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G359
539261	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G360
539213	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G372
539211	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G373
539191	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G374
539216	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G375
539255	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G376
539243	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G377
539258	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G378
539252	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G379
539260	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G380
534722	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04G392
534727	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04G393
534717	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04G394
534711	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04G395

534730	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04G396
539223	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G397
539238	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G398
539259	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G399
539226	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04G400
534619	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H301
534635	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H302
534632	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H303
534615	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H321
534634	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H322
534631	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H323
534636	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H324
534622	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H325
534647	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H326
539973	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H327
539967	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H328
539974	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H329
539970	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H330
539966	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H331
539968	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H332
539971	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H333
539975	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H334
539969	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H335
539976	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H336
539972	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Adair	32E04H337
534630	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H341
534649	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H342
534620	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H343

534646	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H344
534621	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H345
534626	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H346
534644	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H347
534628	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H348
534638	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H349
534650	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H350
534640	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H351
534645	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H352
534641	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H353
534643	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H354
534617	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H355
534651	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H356
534653	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H357
539303	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H361
539296	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H362
539305	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H363
539267	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H364
534625	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H365
534637	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H366
534648	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H367
534627	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H368
534623	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H369
534633	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H370
534639	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H371
534616	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H372
534629	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H373
534642	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H374

534624	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H375
534618	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H376
534652	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H377
539271	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H381
539285	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H382
539299	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H383
539283	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Adair	32E04H384
534602	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H385
534603	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H386
534604	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H387
534605	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H388
534606	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H389
534607	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H390
534608	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H391
534609	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H392
534610	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H393
534611	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H394
534612	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H395
534613	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H396
534614	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Adair	32E04H397
539808	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G166
539809	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G204
539810	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G164
539811	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G225
539812	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G227
539813	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G203
539814	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G205
539815	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G208

539802	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04F340
539803	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G384
539804	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G364
539805	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04F380
539169	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G230
539170	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G331
539168	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G268
539175	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G350
539176	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G231
539180	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G330
539181	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G371
539182	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G311
539185	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G289
539186	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G310
539187	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G270
539188	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G271
539193	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G228
539194	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G309
539195	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G229
539196	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G250
539198	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G308
539199	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G249
539200	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G290
539204	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G288
539205	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G248
539206	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G269
539207	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G370
539208	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G351

539209	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G251
539212	2019-01-14	2022-01-14	(100) Bay Capital Markets Inc.	Abbotsford	32E04G291
539806	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G301
539807	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04B004
539816	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04G244
539892	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F053
539893	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F033
539894	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F074
539895	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F076
539896	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F056
539795	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04F300
539796	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G341
539797	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G302
539798	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G363
539799	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G343
539800	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04B026
539784	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G321
539785	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G383
539786	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04B006
539787	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G361
539788	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G322
539789	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04B005
539790	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G385
539791	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04F360
539792	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04F320
539793	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G342
539794	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04G362
539801	2019-01-25	2022-01-25	(100) Bay Capital Markets Inc.	Abbotsford	32E04B025

539897	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F010
539898	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F051
539899	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F031
539900	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F092
539901	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F052
539902	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F032
539903	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F094
539912	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F115
539913	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F055
539914	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04K391
539915	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F072
539916	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F093
539917	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F114
539904	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F012
539918	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F057
539919	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F073
539905	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04K392
539906	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F113
539920	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F013
539907	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F054
539908	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F075
539909	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F035
539910	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F071
539921	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F029
539911	2019-01-26	2022-01-26	(100) Bay Capital Markets Inc.	Abbotsford	32E04F011
534692	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B051
534698	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B030
534713	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G391

534719	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B010
534720	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G390
534721	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B031
534725	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B070
534726	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B011
534731	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B050
534732	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B071
534734	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B048
534735	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B027
534736	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B028
534737	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B049
534738	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B029
534739	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B069
534654	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G285
534655	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B007
534656	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G347
534657	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B009
534658	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G329
534659	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G344
534660	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04B008
534661	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G388
534662	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G349
534663	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G304
534664	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G366
534665	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G286
534666	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G287
534667	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G323
534668	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G365

534669	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G386
534670	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G346
534671	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G266
534672	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G367
534673	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G328
534674	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G324
534675	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G325
534676	2018-11-12	2021-11-12	(100) Bay Capital Markets Inc.	Abbotsford	32E04G326
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Property Location and Access

The EPSG 6660 Project is situated along the border of Quebec and Ontario near the town of La Sarre, Qc. The property is accessible by logging roads and trails (as shown in **Figure 1**), but for this geophysical survey the survey crew flew out of La Sarre, Qc for data acquisition.

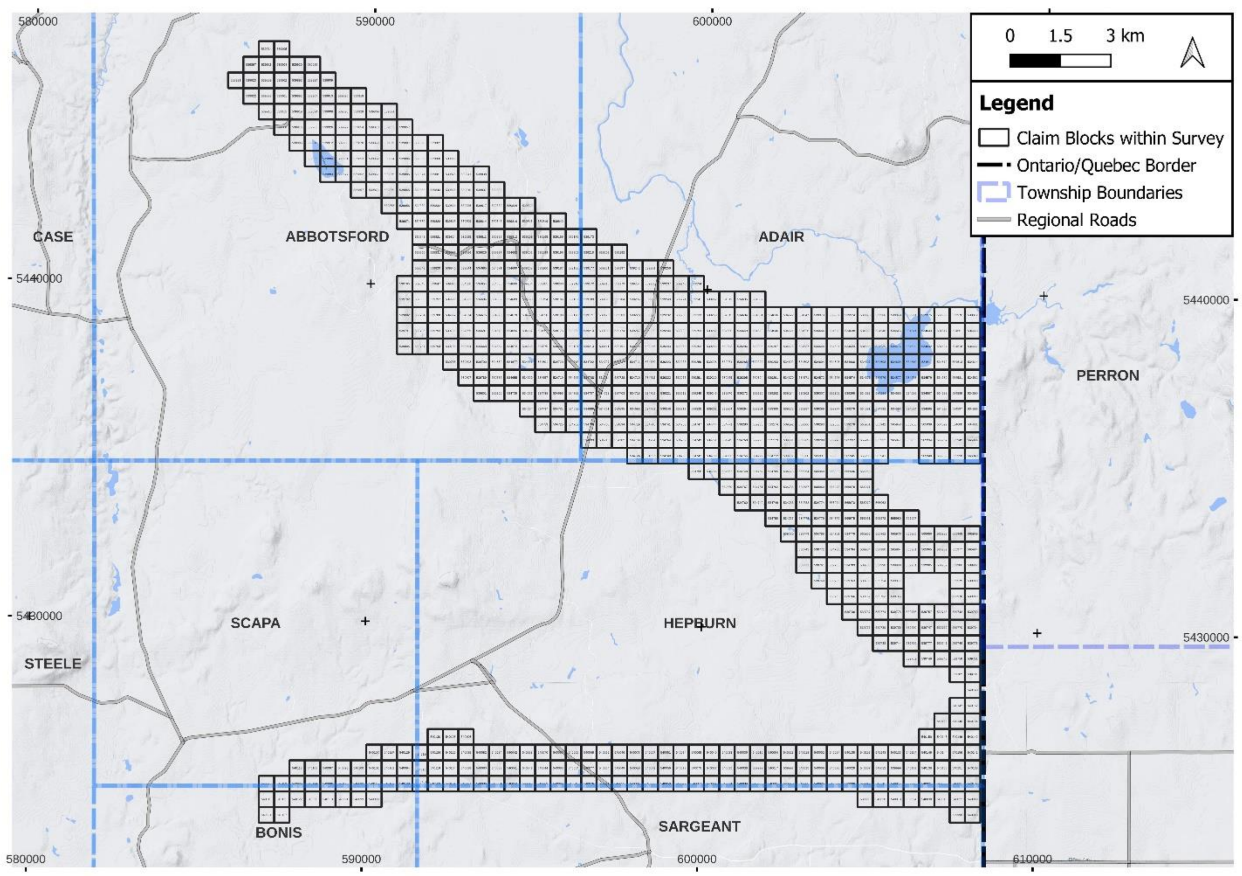


Figure 1: Ontario portion of Mineral Claims surveyed during this VTEM survey. Regional road network is also shown.

Property Ownership and Exploration History

The EPSG 6660 Project was acquired by map staking by Bay Capital Markets Inc. Prior to this EM survey, no previous work was completed on the Project by Bay Capital Markets Inc. Historically, numerous operators conducted small exploration programs on the Property. The historical work included multiple geophysical surveys, geological mapping, trenching, prospecting, overburden drilling, and minor diamond drilling. Several gold and base metal occurrences and discretionary occurrences were identified as defined by the Ontario Mineral Inventory database. Several of these occurrences correlate well with new conductors identified from the VTEM survey as shown in **Figure 2**.

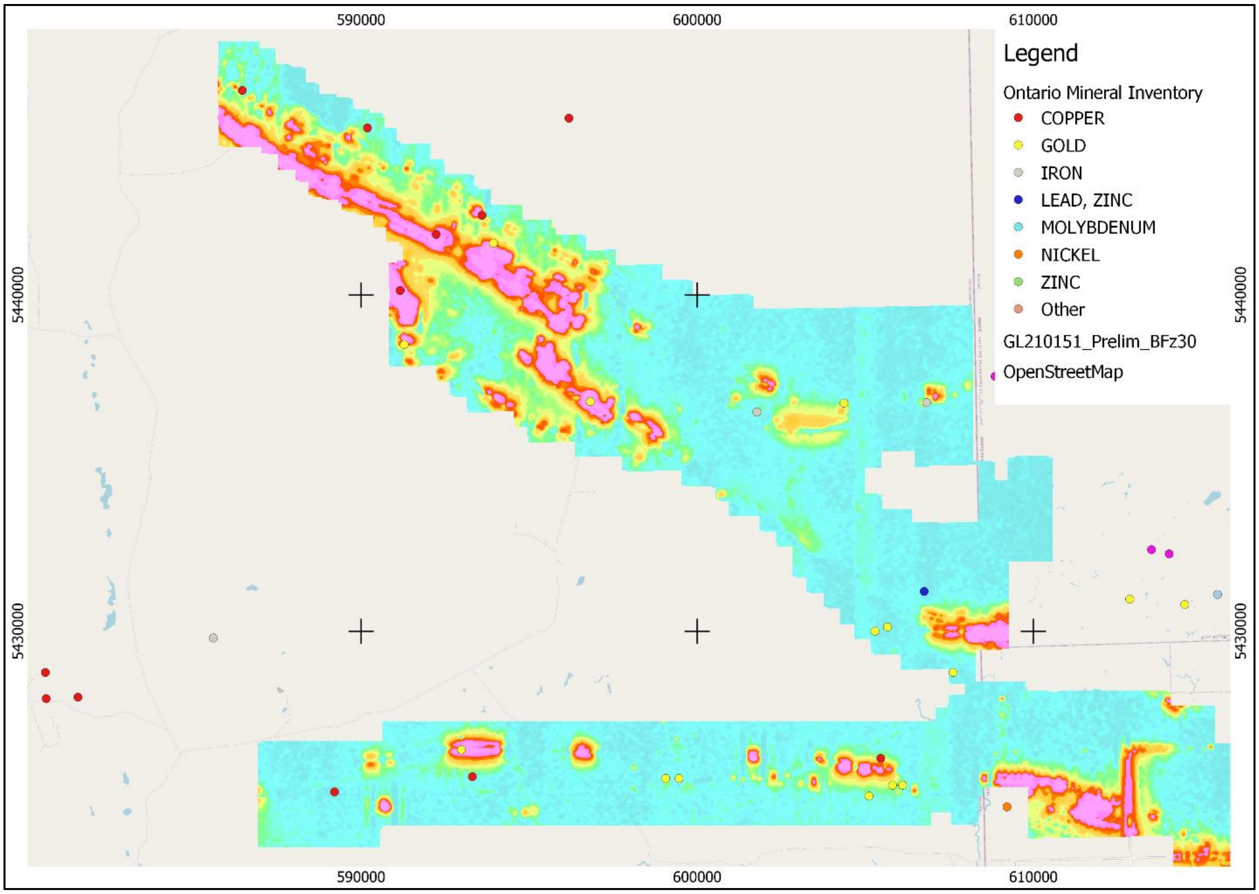


Figure 2: B-Field Z Component results & Ontario Mineral Inventory occurrences. Also shown is the extension of the survey into Quebec.

Regional and Property Geology

The EPSG 6660 Project is part of the circa 2.7 Ga Superior province in the northern part of the Abitibi Greenstone Belt. The project sits within Burntbush-Detour Lakes Area (Ayer 2009) of the Abitibi.

As shown in **Figure 3**, the northern part of the claim package overlies rocks of the Deloro assemblage (2,725 Ma), the Kidd Munro assemblage (2,720-2,711 Ma) and the Porcupine assemblage (<2,693 Ma). The northern part of the claim package is flanked to the south by the regional Chicobi Fault and to the north by the Mistawak Batholith (2,702 Ma). The claim block is divided by the late Patten Pluton (2,688 Ma) which separates the Normetal and Burntbush Volcanic Complexes (at the border of Ontario and Quebec).

The southern part of the claim package overlies a narrow mafic-intermediate belt of the Stoughton-Roquemaure and Hunter Mine Groups of metavolcanics and is bordered to the north by greywackes of the Chicobi Group (<2,696 Ma) and to the south by the Abitibi Lake syntectonic pluton (2,690 Ma). The southern part of the claim package is crossed by the Abitibi Thrust Fault which dips at 70 degrees to the south.

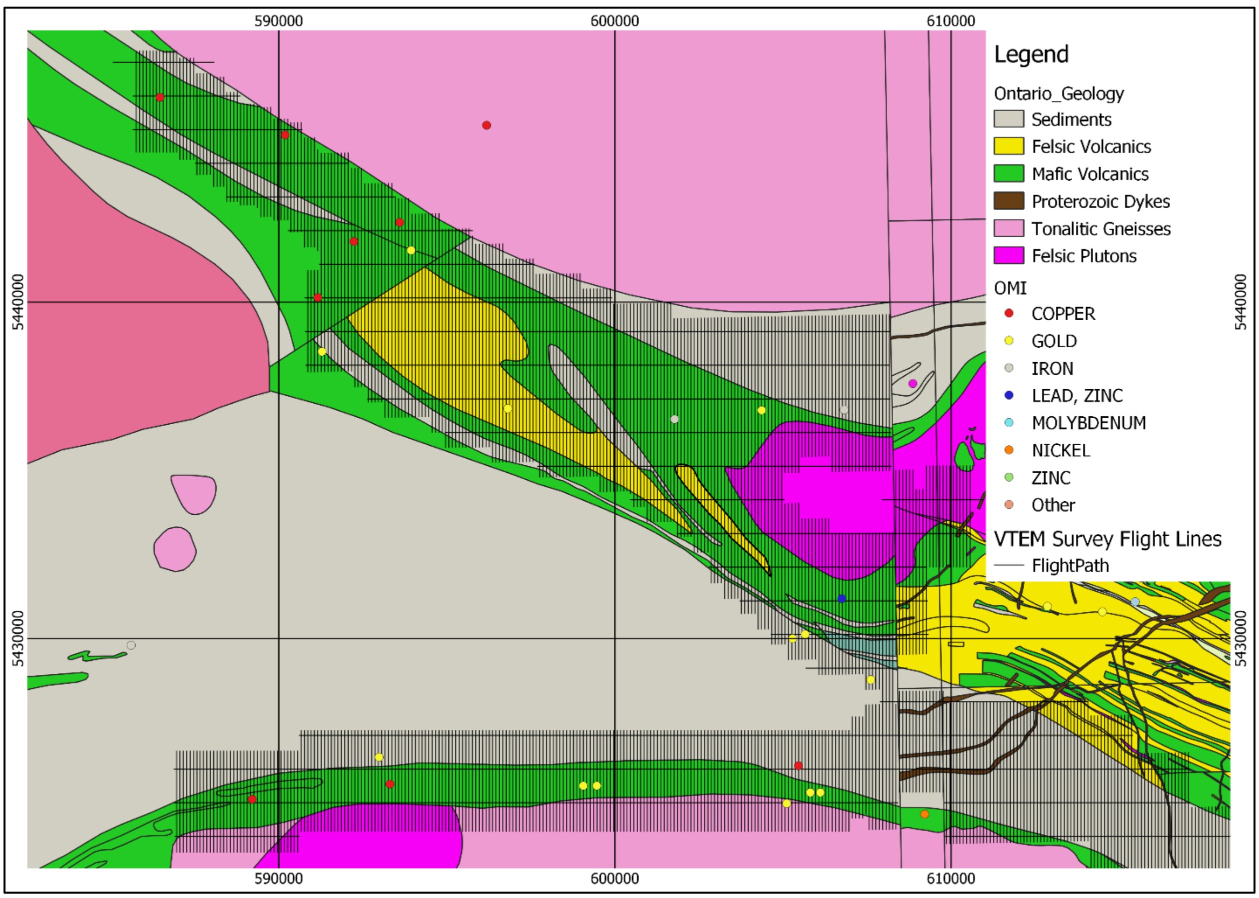


Figure 3: Simplified regional geology (as mapped by Ontario Geological Survey and Natural Resources Canada CGC-Québec) underlaying the project area. VTEM survey flight lines also shown.

Survey Objective, Results, Interpretation, and Recommendations

The objective of the survey was to identify targets for follow-up work for base metal and gold mineralization, utilizing the electromagnetic ("EM") data for potential targets for sulfide mineralization and the magnetic data to identify potential structures for gold mineralization. A detailed description of methods and preliminary results are provided in **Appendix 1**. The survey was successful at identifying discrete conductors that are coincident with historical gold and base metal mineral occurrences (Ontario Mineral Inventory) along with several historically untested conductors. These conductors should be modelled and inverted to provide potential trenching and drilling targets. In addition to the EM anomalies identified, the magnetic dataset indicates structural complexity that should be subjected to a detailed interpretation to best identify favourable structures for gold mineralization.

References

Ontario Mineral Inventory database, Ministry of Northern Development, Mines, Natural Resources, and Forestry.

Ayer, J.A., Chartrand, J.E., Duguet, M., Rainsford, D.R.B. and Trowell, N.F. 2009. Geological compilations of the Burntbush–Detour lakes area, Abitibi greenstone belt; Ontario Geological Survey, Preliminary Map P.3609, scale 1:100 000.

Ayer, J.A. and Chartrand, J.E. 2011. Geological compilation of the Abitibi greenstone belt; Ontario Geological Survey, Miscellaneous Release—Data 282.

SIGNATURE PAGE

This report entitled: "Assessment Report on a Helicopter-borne Versatile Time Domain Electromagnetic and Horizontal Magnetic Gradiometer Geophysical Survey on the EPSG 6660 Project" and dated November 30 2021, was prepared by and signed by the following author:

Signed at Toronto, Ontario
November 30 2021

" Kelly Malcolm, P.Geo." (signed)
Kelly Malcolm, P.Geo.
Consulting Geologist

Generic Geo Inc.
410-1005 King St West, Toronto, ON, M6K 3M8
(647) 299-1153
email: kmalcolm@genericgeo.ca

CERTIFICATE OF AUTHOR

I, Kelly Malcolm, P. Geo. do hereby certify that:

1. I am President of a geological consulting firm headquartered in Toronto called Generic Geo Inc.

2. I hold the following academic qualifications: h.B.Sc. (Geology) and B.A. Economics from Laurentian University, 2014.

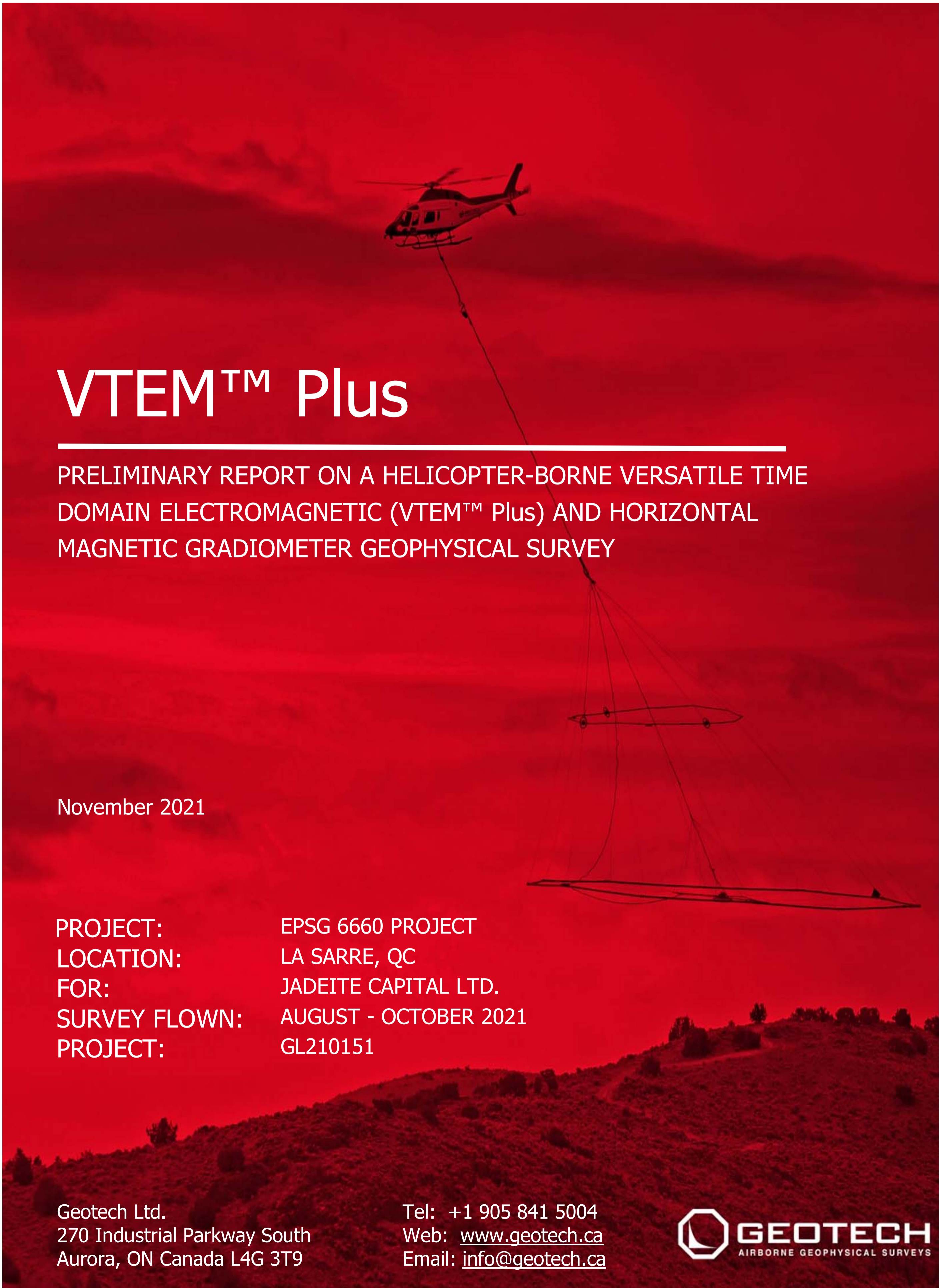
3. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Ontario (No. 2864) and a member in good standing.

3. I have worked in the mining and exploration industry for approximately 10 years.

4. I am not aware of any material fact, or change in reported information, in connection with the subject property, not reported or considered by me, the omission of which makes this report misleading.

5. I am the author responsible for the preparation of the Assessment Report entitled " Assessment Report on a Helicopter-borne Versatile Time Domain Electromagnetic and Horizontal Magnetic Gradiometer Geophysical Survey on the EPSG 6660 Project " and dated November 30, 2021.

Appendix – Geophysical Service Provider Report



VTEM™ Plus

PRELIMINARY REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM™ Plus) AND HORIZONTAL MAGNETIC GRADIOMETER GEOPHYSICAL SURVEY

November 2021

PROJECT:	EPSG 6660 PROJECT
LOCATION:	LA SARRE, QC
FOR:	JADEITE CAPITAL LTD.
SURVEY FLOWN:	AUGUST - OCTOBER 2021
PROJECT:	GL210151

Geotech Ltd.
270 Industrial Parkway South
Aurora, ON Canada L4G 3T9

Tel: +1 905 841 5004
Web: www.geotech.ca
Email: info@geotech.ca

GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

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EXECUTIVE SUMMARY

EPSG 6660 PROJECT
LA SARRE, QC

Between August 12th and October 28th, 2021, Geotech Ltd. carried out a helicopter-borne geophysical survey over EPSG 6660 Project near La Sarre, QC.

Principal geophysical sensors included a versatile time domain electromagnetic (VTEM™ Plus) system and a horizontal magnetic gradiometer with two caesium sensors. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 3520 line-kilometres of geophysical data were acquired during the survey.

In-field data quality assurance and preliminary processing were carried out on a daily basis during the acquisition phase. Final data processing, including generation of final digital data and map products are being undertaken from the office of Geotech Ltd. in Aurora, Ontario.

The preliminary processed survey results are presented as the following maps:

- Electromagnetic stacked profiles of the B-field Z Component
- Electromagnetic stacked profiles of dB/dt Z Component
- B-Field Z Component Channel grid
- dB/dt Z Component Channel grid
- Fraser Filtered X Component Channel grid
- Total Magnetic Intensity (TMI)
- Calculated Vertical Gradient (CVG) of Total Magnetic Intensity (TMI)

Digital data include all electromagnetic and magnetic products, plus ancillary data including the waveform.

The survey report describes the procedures for data acquisition, equipment used, processing, preliminary image presentation and the specifications for the digital data set.

1. INTRODUCTION

1.1 GENERAL CONSIDERATIONS

Geotech Ltd. performed a helicopter-borne geophysical survey over the EPSG 6660 Project near La Sarre, QC (Figure 1 & Figure 2).

Kelly Malcolm represented Jadeite Capital Ltd. during the data acquisition and data processing phases of this project.

The geophysical surveys consisted of helicopter borne EM using the versatile time-domain electromagnetic (VTEM™) plus system with Full-Waveform processing. Measurements consisted of Vertical (Z) and In-line Horizontal (X) components of the EM fields using an induction coil and a horizontal magnetic gradiometer using two caesium magnetometers. A total of 3520 line-km of geophysical data were acquired during the survey.

The crew was based out of La Sarre, QC (Figure 2) for the acquisition phase of the survey. Survey flying occurred on August 18th to October 27th, 2021.

Data quality control and quality assurance, and preliminary data processing were carried out on a daily basis during the acquisition phase of the project. Final data processing followed immediately after the end of the survey.

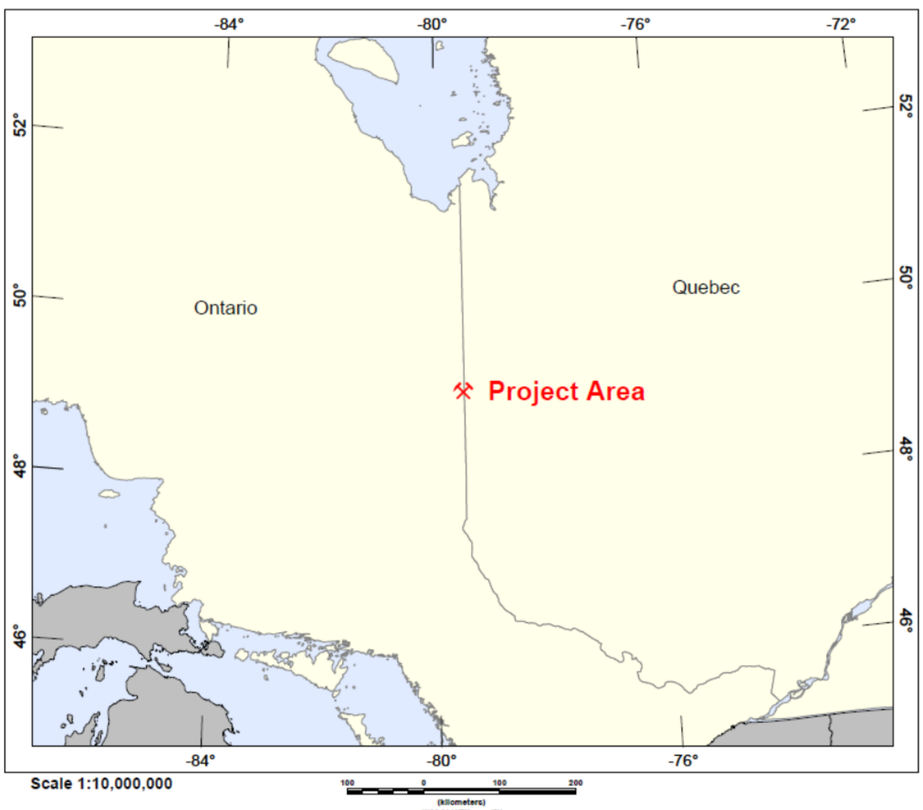

Figure 1: Survey location

1.2 SURVEY AND SYSTEM SPECIFICATIONS

The survey area is located approximately 14km northwest of La Sarre, QC (Figure 2) and straddles the Ontario/Quebec border.

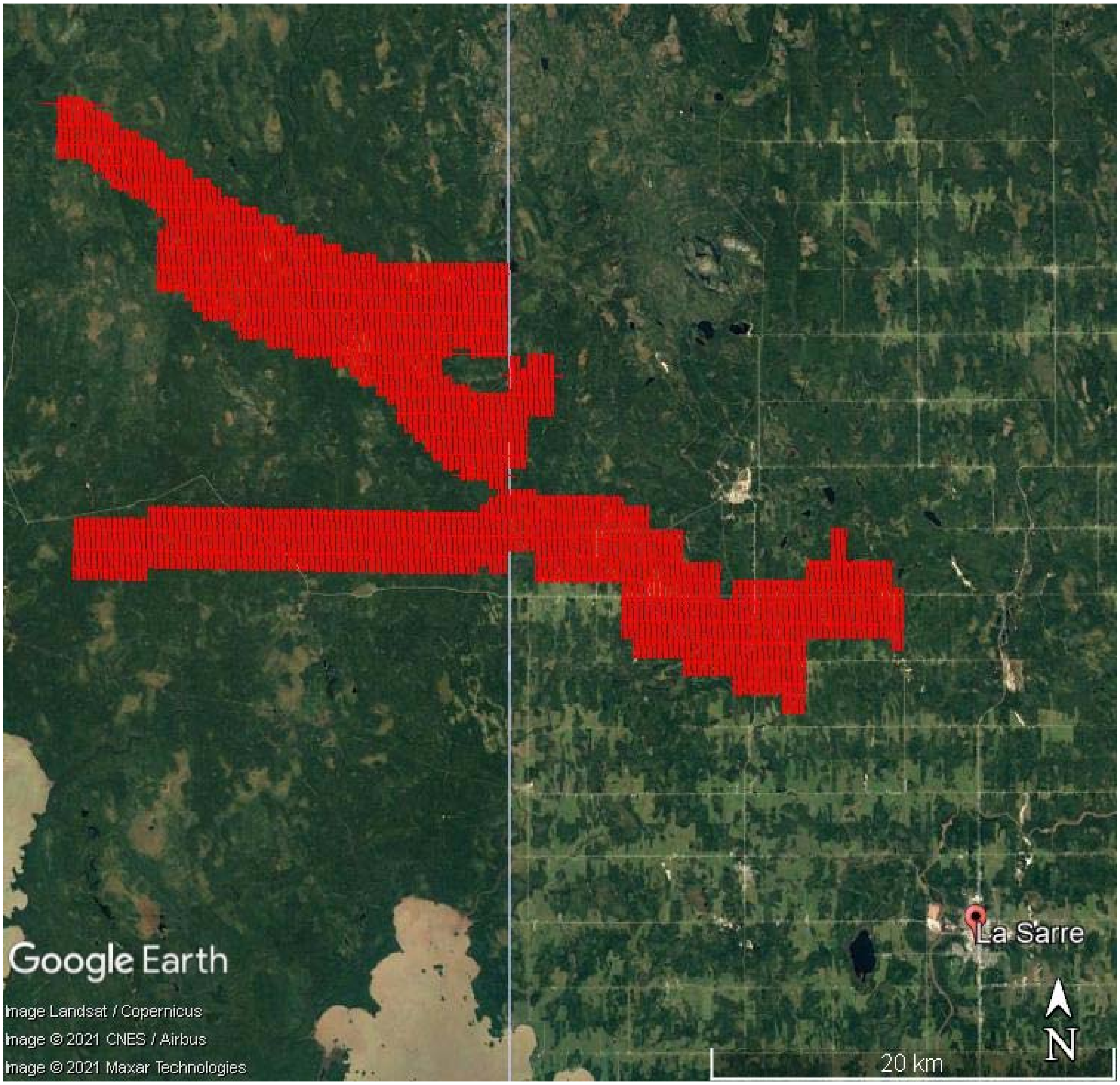

Figure 2:Survey area location map on Google Earth.

The EPSG 6660 Project was flown in a south to north (N 0° E azimuth) direction with traverse line spacings of 100 metres, as depicted in Figure 3. Tie lines were flown perpendicular to traverse lines at 1000m spacings. For more detailed information on the flight spacings and directions, see Table 1.

1.3 TOPOGRAPHIC RELIEF AND CULTURAL FEATURES

Topographically, the survey area exhibits relief with elevations ranging from 262 to 377 metres over an area of 321 square kilometres (Figure 3).

There are visible signs of culture such as roads, power lines and villages within the EPSG 6660 Project area.

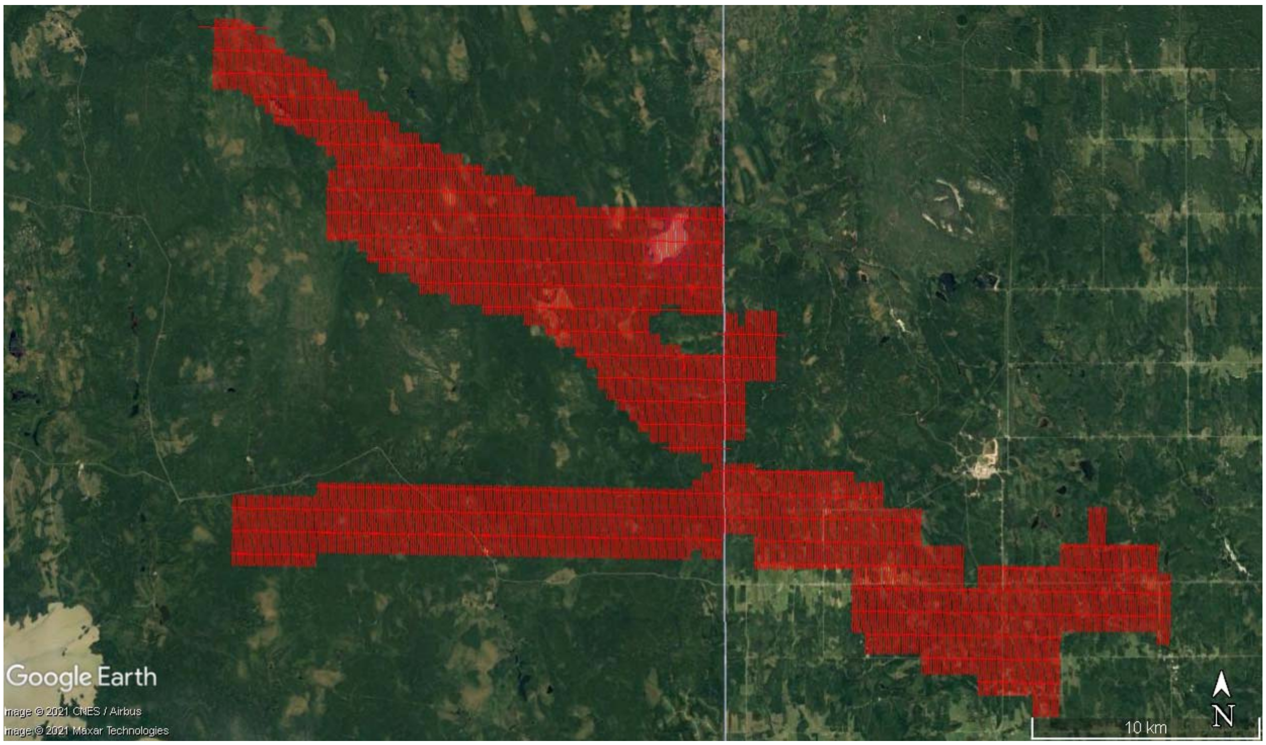

Figure 3: EPSG 6660 Project flight paths over a Google Earth Image.

2. DATA ACQUISITION

2.1 SURVEY AREA

The survey area (see Figure 3 and Appendix A) and general flight specifications are as follows:

Table 1: Survey Specifications

Survey block	Line spacing (m)	Area (km^2)	Planned Line-Km	Actual Line-km	Flight direction	Line numbers
EPSG 6660 Project	Traverse: 200	321	3307	3520	N 0° E / N 180° E	L1000 – L6230
	Tie: 2000				N 90° E / N 270° E	T6000 – T6280
	Total	321	3307	3520		

Survey area boundaries co-ordinates are provided in Appendix B.

2.2 SURVEY OPERATIONS

Survey operations were based out of La Sarre, QC (see Figure 2). The following table shows the timing of the flying.

Date	Comments
12-Aug	Mobilization to La Sarre, QC
13-Aug	Set up base stations
14-Aug	Weather day
15-Aug	Reconnaissance flight
16-Aug	Troubleshoot VTEM system
17-Aug	Test & Production flights - 103 km flown
18-Aug	Production flight - 132 km flown
19-Aug	Production flight - 113 km flown
20-Aug	Production flight - 56 km flown
21-Aug	Production flight - 219 km flown
22-Aug	Production flight - 150 km flown
23-Aug	Production flight - 198 km accepted
24-Aug	Review of previous day's flight
25-Aug	Test & Production flight - 12 km flown
26-Aug	Weather day
27-Aug	Production flight - 108 km flown
28-Aug	Weather day
29-Aug	Weather day
30-Aug	Weather day
31-Aug	Production flight - 78 km flown
01-Sep	Production flight - 45 km flown
02-Sep	Weather day
03-Sep	Production flight - 99 km flown
04-Sep	Production flight - 231 km flown
05-Sep	Weather day
06-Sep	Weather day
07-Sep	Weather day

Date	Comments
08-Sep	Troubleshoot system noise
09-Sep	Weather day
10-Sep	Production flight - 135 km flown
11-Sep	Weather day
12-Sep	Weather day
13-Sep	Weather day
14-Sep	Weather day
15-Sep	Weather day
16-Sep	Production flight - 89 km flown
17-Sep	Production flight - 18 km flown
18-Sep	Production flight - 118 km flown
19-Sep	Production flight - 196 km flown
20-Sep	Production flight - 104 km flown
21-Sep	Weather day
22-Sep	Weather day
23-Sep	Production flight - 75 km flown
24-Sep	Weather day
25-Sep	Weather day
26-Sep	Weather day
27-Sep	Weather day
28-Sep	Production flight - 45 km flown
29-Sep	Weather day
30-Sep	Weather day
01-Oct	Weather day
02-Oct	Weather day
03-Oct	Production flight - 202 km flown
04-Oct	Production flight - 250 km flown
05-Oct	Helicopter maintenance
06-Oct	Helicopter maintenance
07-Oct	Helicopter maintenance
08-Oct	Helicopter maintenance
09-Oct	Helicopter maintenance
10-Oct	System installation
11-Oct	Weather day
12-Oct	Test flight
13-Oct	Calibrations
14-Oct	Weather day
15-Oct	Production flight - 217 km flown
16-Oct	Weather day
17-Oct	Weather day
18-Oct	Weather day
19-Oct	Production flight - 173 km flown
20-Oct	Weather day
21-Oct	Weather day
22-Oct	Production flight - 21 km flown
23-Oct	Weather day
24-Oct	Weather day
25-Oct	Weather day

Date	Comments
26-Oct	Production flight - 136 km flown
27-Oct	Production flight - 90 km flown
28-Oct	Demobilization

2.3 FLIGHT SPECIFICATIONS

During the survey, the helicopter was maintained at a mean altitude of 100 metres above the ground with an average survey speed of 83 km/hour. This allowed for an actual average Transmitter-receiver loop terrain clearance of 45 metres and a magnetic sensor clearance of 55 metres.

The on-board operator was responsible for monitoring the system integrity. He also maintained a detailed flight log during the survey, tracking the times of the flight as well as any unusual geophysical or topographic features.

On return of the aircrew to the base camp the survey data was transferred from a compact flash card (PCMCIA) to the data processing computer. The data were then uploaded via ftp to the Geotech office in Aurora for daily quality assurance and quality control by qualified personnel.

2.4 AIRCRAFT AND EQUIPMENT

2.4.1 SURVEY AIRCRAFT

The survey was flown using Eurocopter Aerospatiale (A-Star) 350 B3 helicopters, registration C-GVMU. The helicopter is owned and operated by Geotech Aviation Ltd. Installation of the geophysical and ancillary equipment was carried out by a Geotech Ltd. crew.

2.4.2 ELECTROMAGNETIC SYSTEM

The electromagnetic system was a Geotech Time Domain EM (VTEM™ Plus) full receiver-waveform streamed data recorded system. The "full waveform VTEM system" uses the streamed half-cycle recording of transmitter and receiver waveforms to obtain a complete system response calibration throughout the entire survey flight. VTEM with the serial number 32 had been used for the survey. The VTEM™ transmitter current waveform is shown diagrammatically in Figure 4.

The VTEM™ Receiver and transmitter coils were in concentric-coplanar and Z-direction oriented configuration. The receiver system for the project also included coincident-coaxial X-direction coil to measure the in-line dB/dt and calculate B-Field responses. The Transmitter-receiver loop was towed at a mean distance of 55 metres below the aircraft as shown in Figure 5.

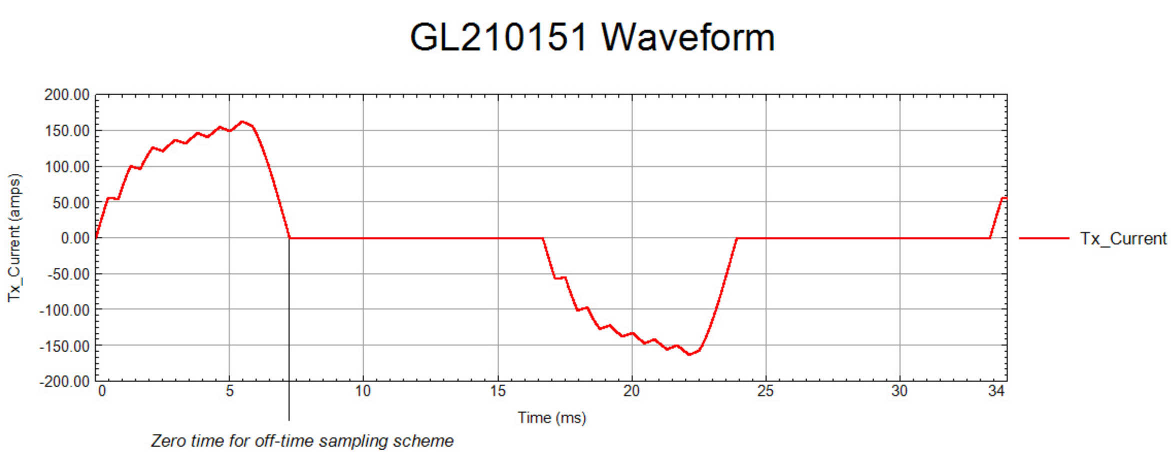

Figure 4: VTEM™ Transmitter Current Waveform

The VTEM™ decay sampling scheme is shown in Table 2 below. Forty-three-time measurement gates were used for the final data processing in the range from 0.021 to 8.083 msec. Zero time for the off-time sampling scheme is equal to the current pulse width and is defined as the time near the end of the turn-off ramp where the dI/dt waveform falls to 1/2 of its peak value.

Table 2: Off-Time Decay Sampling Scheme

VTEM™ Decay Sampling Scheme				
Index	Start	End	Middle	Width
Milliseconds				
4	0.018	0.023	0.021	0.005
5	0.023	0.029	0.026	0.005
6	0.029	0.034	0.031	0.005
7	0.034	0.039	0.036	0.005
8	0.039	0.045	0.042	0.006
9	0.045	0.051	0.048	0.007
10	0.051	0.059	0.055	0.008
11	0.059	0.068	0.063	0.009
12	0.068	0.078	0.073	0.010
13	0.078	0.090	0.083	0.012
14	0.090	0.103	0.096	0.013
15	0.103	0.118	0.110	0.015
16	0.118	0.136	0.126	0.018
17	0.136	0.156	0.145	0.020
18	0.156	0.179	0.167	0.023
19	0.179	0.206	0.192	0.027
20	0.206	0.236	0.220	0.030
21	0.236	0.271	0.253	0.035
22	0.271	0.312	0.290	0.040

VTEM™ Decay Sampling Scheme				
Index	Start	End	Middle	Width
Milliseconds				
23	0.312	0.358	0.333	0.046
24	0.358	0.411	0.383	0.053
25	0.411	0.472	0.440	0.061
26	0.472	0.543	0.505	0.070
27	0.543	0.623	0.580	0.081
28	0.623	0.716	0.667	0.093
29	0.716	0.823	0.766	0.107
30	0.823	0.945	0.880	0.122
31	0.945	1.086	1.010	0.141
32	1.086	1.247	1.161	0.161
33	1.247	1.432	1.333	0.185
34	1.432	1.646	1.531	0.214
35	1.646	1.891	1.760	0.245
36	1.891	2.172	2.021	0.281
37	2.172	2.495	2.323	0.323
38	2.495	2.865	2.667	0.370
39	2.865	3.292	3.063	0.427
40	3.292	3.781	3.521	0.490
41	3.781	4.341	4.042	0.560
42	4.341	4.987	4.641	0.646
43	4.987	5.729	5.333	0.742
44	5.729	6.581	6.125	0.852
45	6.581	7.560	7.036	0.979
46	7.560	8.685	8.083	1.125

Z Component: 4-46 time gates
X Component: 20-46 time gates

Table 3: VTEM™ System Specifications

Transmitter	Receiver
• Transmitter loop diameter: 26 m • Number of turns: 4 • Effective Transmitter loop area: 2123.7 m^2 • Transmitter base frequency: 30 Hz • Peak current: 162.6 A • Pulse width: 7.22 ms • Waveform shape: Bi-polar trapezoid • Peak dipole moment: 345,316 nIA • Average transmitter-receiver loop terrain clearance: 45 metres	• X -Coil diameter: 0.32 m • Number of turns: 245 • Effective coil area: 19.69 m^2 • Z-Coil diameter: 1.2 m • Number of turns: 100 • Effective coil area: 113.04 m^2

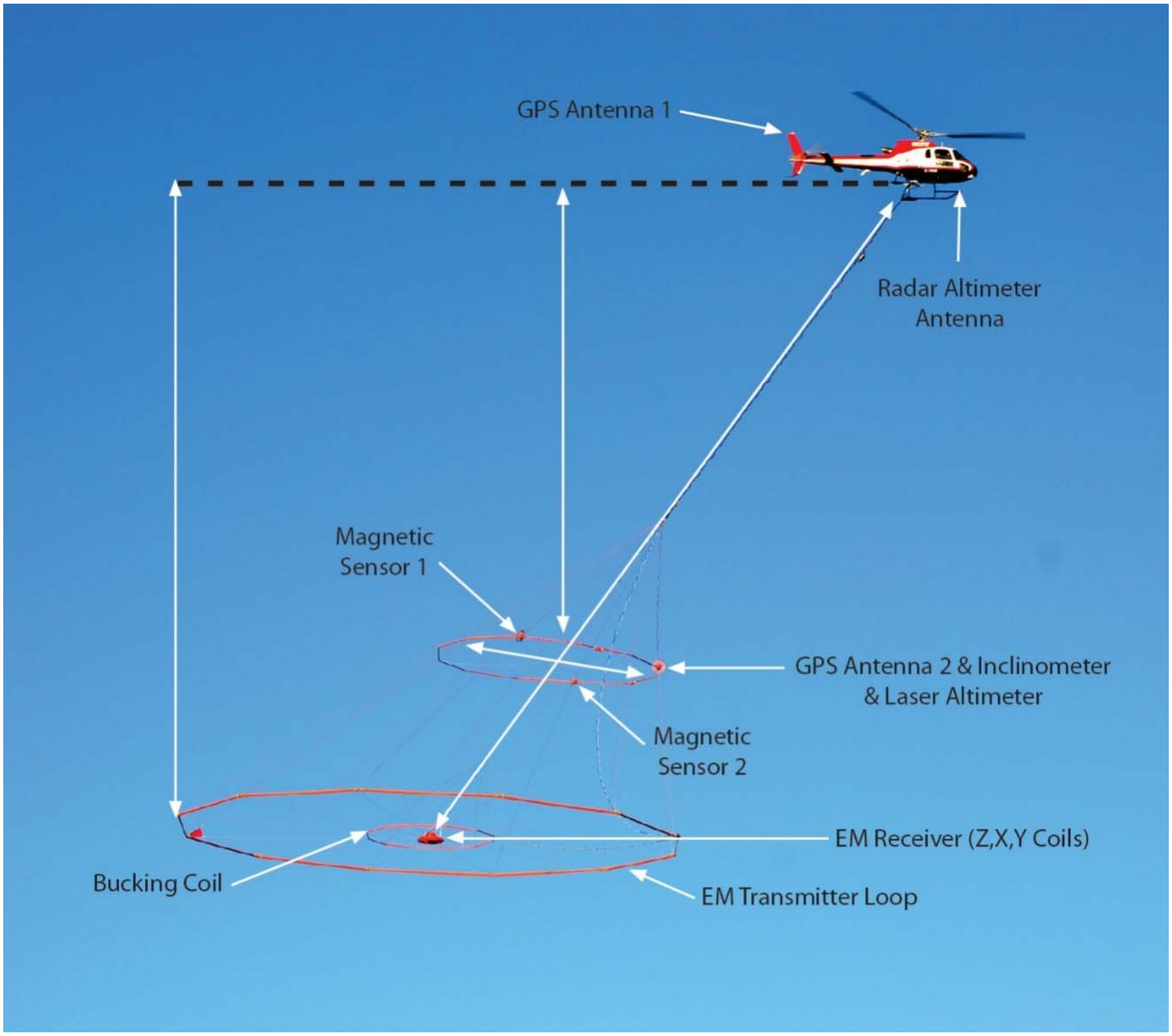

Figure 5: VTEM™plus System Configuration.

2.4.3 FULL WAVEFORM VTEM™ SENSOR CALIBRATION

The calibration is performed on the complete VTEM™ system installed in and connected to the helicopter, using special calibration equipment. This calibration takes place on the ground at the start of the project prior to surveying.

The procedure takes half-cycle files acquired and calculates a calibration file consisting of a single stacked half-cycle waveform. The purpose of the stacking is to attenuate natural and man-made magnetic signals, leaving only the response to the calibration signal.

This calibration allows the transfer function between the EM receiver and data acquisition system and the transfer function between the current monitor and data acquisition system to be determined. These calibration results are then used in VTEM full waveform processing.

2.4.4 Horizontal Magnetic Gradiometer

The horizontal magnetic gradiometer consists of two Geometrics split-beam field magnetic sensors with a sampling interval of 0.1 seconds. These sensors are mounted 12.5 metres apart on a separate loop, 10 metres above the Transmitter-receiver loop. A GPS antenna and Gyro Inclinometer is installed on the separate loop to accurately record the tilt and position of the magnetic gradiometer sensors.

2.4.5 Radar Altimeter

A Terra TRA 3000/TRI 40 radar altimeter was used to record terrain clearance. The antenna was mounted beneath the bubble of the helicopter cockpit (Figure 5).

2.4.6 GPS Navigation System

The navigation system used was a Geotech PC104 based navigation system utilizing a NovAtel's WAAS(Wide Area Augmentation System) enabled GPS receiver, Geotech navigate software, a full screen display with controls in front of the pilot to direct the flight and a NovAtel GPS antenna mounted on the helicopter tail (Figure 5). As many as 11 GPS and two WAAS satellites may be monitored at any one time. The positional accuracy or circular error probability (CEP) is 1.8 m, with WAAS active, it is 1.0 m. The coordinates of the survey area were set-up prior to the survey and the information was fed into the airborne navigation system. The second GPS antenna is installed on the additional magnetic loop together with Gyro Inclinometer.

2.4.7 Digital Acquisition System

A Geotech data acquisition system recorded the digital survey data on an internal compact flash card. Data is displayed on an LCD screen as traces to allow the operator to monitor the integrity of the system. The data type and sampling interval as provided in Table 4.

Table 4: Acquisition Sampling Rates

Data Type	Sampling
TDEM	0.1 sec
Magnetometer	0.1 sec
GPS Position	0.2 sec
Radar Altimeter	0.2 sec
Inclinometer	0.1 sec

2.5 BASE STATION

A combined magnetometer/GPS base station was utilized on this project. A Geometrics Caesium vapour magnetometer was used as a magnetic sensor with a sensitivity of 0.001 nT. The base station was recording the magnetic field together with the GPS time at 1 Hz on a base station computer.

The base station magnetometer sensor was installed in a secured location away from electric transmission lines and moving ferrous objects such as motor vehicles. The base station data were backed-up to the data processing computer at the end of each survey day.

3. PERSONNEL

The following Geotech Ltd. personnel were involved in the project.

FIELD:

Project Manager:	Steven Cargnello (Office)
Data QC:	Matthew Johnston
Crew chief:	Roberto DiBari Adolf Masiyandima
Operator:	Felipe Herrera

The survey pilot and the mechanical engineer were employed directly by the helicopter operator – Geotech Aviation Ltd.

Pilot:	Geneviève Caouette Jocelyn Vallieres
Mechanical Engineer:	Francis Boudreaul

OFFICE:

Preliminary Data Processing:	Matthew Johnston Marta Orta
Final Data Processing:	Shuang Wang
Data QA/QC:	TaiChyi Shei Emily Data Jean Legault
Reporting/Mapping:	Emily Data Jean Legault

Processing and Interpretation phases were carried out under the supervision of TaiChyi Shei, Emily Data & Jean M. Legault, Geo., Chief Geophysicist. The customer relations were looked after by Paolo Berardelli.

4. DATA PROCESSING AND PRESENTATION

Data compilation and processing were carried out by the application of Geosoft OASIS Montaj and programs proprietary to Geotech Ltd.

4.1 FLIGHT PATH

The flight path, recorded by the acquisition program as WGS 84 latitude/longitude, was converted into the WGS84 Datum, UTM Zone 17N coordinate system in Oasis Montaj.

The flight path was drawn using linear interpolation between x, y positions from the navigation system. Positions are updated every second and expressed as UTM easting's (x) and UTM northing's (y).

4.2 ELECTROMAGNETIC DATA

The Full Waveform EM specific data processing operations included:

- Half cycle stacking (performed at time of acquisition).
- System response correction.
- Parasitic and drift removal.

A three-stage digital filtering process was used to reject major sferic events and to reduce noise levels. Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events.

The signal to noise ratio was further improved by the application of a low pass linear digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 1 second or 15 metres. This filter is a symmetrical 1 sec linear filter.

The results are presented as stacked profiles of EM voltages for the time gates, in linear - logarithmic scale for the B-field Z component and dB/dt responses in the Z and X components. B-field Z component time channels recorded at 0.880 milliseconds after the termination of the impulse is also presented as a colour image.

VTEM™ has two receiver coil orientations. Z-axis coil is oriented parallel to the transmitter coil axis, and both are horizontal to the ground. The X-axis coil is oriented parallel to the ground and along the line-of-flight. The combination of the X and Z coils configuration provides information on the position, depth, dip, and thickness of a conductor. Generalized modeling results of VTEM data are shown in Appendix D.

In general X-component data produce cross-over type anomalies: from "+ to – "in flight direction of flight for "thin" sub vertical targets and from "- to +" in direction of flight for "thick" targets. Z component data produce double peak type anomalies for "thin" sub vertical targets and single peak for "thick" targets. The limits and change-over of "thin-thick" depends on dimensions of a TEM system (Appendix D, Figure D-16).

Because of X component polarity is under line-of-flight, convolution Fraser Filter (Figure 6) is applied to X component data to represent axes of conductors in the form of grid map. In this case positive FF anomalies always correspond to "plus-to-minus" X data crossovers independent of the flight direction.

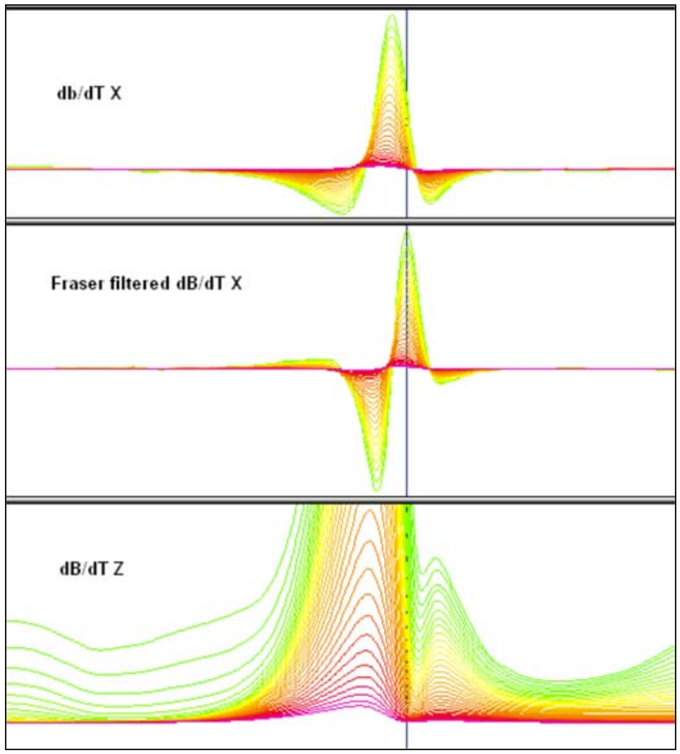

Figure 6: Z, X and Fraser filtered X (FFx) components for "thin" target.

4.3 HORIZONTAL MAGNETIC GRADIOMETER DATA

The horizontal gradients data from the VTEM™ Plus are measured by two magnetometers 12.5 m apart on an independent bird mounted 10m above the VTEM™ loop. A GPS and a Gyro Inclinometer help to determine the positions and orientations of the magnetometers. The data from the two magnetometers are corrected for position and orientation variations, as well as for the diurnal variations using the base station data.

The position of the centre of the horizontal magnetic gradiometer bird is calculated from the GPS utilizing in-house processing tool in Geosoft. Following that total magnetic intensity is calculated at the center of the bird by calculating the mean values from both sensors. In addition to the total intensity advanced processing is done to calculate the in-line and crossline (or lateral) horizontal gradient which enhance the understanding of magnetic targets. The in-line (longitudinal) horizontal gradient is calculated from the difference of two consecutive total magnetic field readings divided by the distance along the flight line direction, while the crossline (lateral) horizontal magnetic gradient is calculated from the difference in the magnetic readings from both magnetic sensors divided by their horizontal separation.

Two advanced magnetic derivative products, the total horizontal derivative (THDR), and tilt angle derivative and are also created. The total horizontal derivative or gradient is defined as:

THDR = sqrt (Hx*Hx+Hy*Hy), where Hx and Hy are crossline and in-line horizontal gradients.

The tilt angle derivative (TDR) is defined as:

TDR = arctan (Vz/THDR), where THDR is the total horizontal derivative, and Vz is the vertical derivative.

Measured crossline gradients can help to enhance crossline linear features during gridding.

5. DELIVERABLES

5.1 SURVEY REPORT

The survey report describes the data acquisition, processing, and final presentation of the survey results. The survey report is provided in two paper copies and digitally in PDF format.

5.2 MAPS

Preliminary maps were produced at scale of 1:50,000 for best representation of the survey size and line spacing. The coordinate/projection system used was WGS84 Datum, UTM Zone 17N. All maps show the flight path trace and topographic data; latitude and longitude are also noted on maps.

The results of the survey are presented as EM profiles, a late-time gate gridded EM channel, and a colour magnetic TMI contour map.

- Maps at 1:50,000 in Geosoft MAP format, as follows:

GL210151_50k_dBdt:	dB/dt profiles Z Component, Time Gates 0.220 – 7.036 ms in linear – logarithmic scale.
GL210151_50k_BField:	B-field profiles Z Component, Time Gates 0.220 – 7.036 ms in linear – logarithmic scale.
GL210151_50k_BFz30:	B-field Z Component Channel 30, Time Gate 0.880 ms colour image.
GL210151_50k_SFz30:	VTEM dB/dt Z Component Channel 30, Time Gate 0.880 ms colour image
GL210151_50k_SFxFF20:	Fraser Filtered dB/dt X Component Channel 20, Time Gate 0.220 ms colour image.
GL210151_50k_TMI:	Total Magnetic Intensity (TMI) colour image and contours.
GL210151_50k_CVG:	Calculated Vertical Derivative (nT/m)

- Maps are also presented in PDF format.

- The topographic data base was derived from 1:250,000 CANVEC data. Background shading is from ASTER GDEM (https://gdex.cr.usgs.gov/gdex). Inset data derived from the Geocommunities (www.geocomm.com)

- A Google Earth file *GL210151_Jadeite.kmz* showing the flight path of the block is included. Free versions of Google Earth software from: http://earth.google.com/download-earth.html

5.3 DIGITAL DATA

Two copies of the data and maps on DVD were prepared to accompany the report. Each DVD contains a digital file of the line data in GDB Geosoft Montaj format as well as the maps in Geosoft Montaj Map and PDF format.

- DVD structure.

Data contains databases, grids and maps, as described below.
Report contains a copy of the report and appendices in PDF format.

Preliminary Database in Geosoft GDB format, containing the channels listed in Table 5.

Table 5**:** Geosoft GDB Data Format

Channel name	Units	Description
X	metres	Easting WGS84 Zone 17N
Y	metres	Northing WGS84 Zone 17N
Longitude	Decimal Degrees	WGS84 Longitude data
Latitude	Decimal Degrees	WGS84 Latitude data
Z	metres	GPS antenna elevation
Zb	metres	EM bird elevation
Radar	metres	Helicopter terrain clearance from radar altimeter
Radarb	metres	Calculated EM transmitter-receiver loop terrain clearance from radar altimeter
DEM	metres	Digital Elevation Model
Gtime	Seconds of the day	GPS time
Mag1L	nT	Measured Total Magnetic field data (left sensor)
Mag1R	nT	Measured Total Magnetic field data (right sensor)
Basemag	nT	Magnetic diurnal variation data
SFz[4]	pV/(A*m4)	Z dB/dt 0.021 millisecond time channel
SFz[5]	pV/(A*m4)	Z dB/dt 0.026 millisecond time channel
SFz[6]	pV/(A*m^4)	Z dB/dt 0.031 millisecond time channel
SFz[7]	pV/(A*m^4)	Z dB/dt 0.036 millisecond time channel
SFz[8]	pV/(A*m^4)	Z dB/dt 0.042 millisecond time channel
SFz[9]	pV/(A*m^4)	Z dB/dt 0.048 millisecond time channel
SFz[10]	pV/(A*m^4)	Z dB/dt 0.055 millisecond time channel
SFz[11]	pV/(A*m^4)	Z dB/dt 0.063 millisecond time channel
SFz[12]	pV/(A*m^4)	Z dB/dt 0.073 millisecond time channel
SFz[13]	pV/(A*m^4)	Z dB/dt 0.083 millisecond time channel
SFz[14]	pV/(A*m^4)	Z dB/dt 0.096 millisecond time channel
SFz[15]	pV/(A*m^4)	Z dB/dt 0.110 millisecond time channel
SFz[16]	pV/(A*m^4)	Z dB/dt 0.126 millisecond time channel
SFz[17]	pV/(A*m^4)	Z dB/dt 0.145millisecond time channel
SFz[18]	pV/(A*m^4)	Z dB/dt 0.167 millisecond time channel
SFz[19]	pV/(A*m^4)	Z dB/dt 0.192 millisecond time channel
SFz[20]	pV/(A*m^4)	Z dB/dt 0.220 millisecond time channel
SFz[21]	pV/(A*m^4)	Z dB/dt 0.253 millisecond time channel
SFz[22]	pV/(A*m^4)	Z dB/dt 0.290 millisecond time channel
SFz[23]	pV/(A*m^4)	Z dB/dt 0.333 millisecond time channel
SFz[24]	pV/(A*m^4)	Z dB/dt 0.383 millisecond time channel

Channel name	Units	Description
SFz[25]	$pV/(A*m^4)$	Z dB/dt 0.440 millisecond time channel
SFz[26]	$pV/(A*m^4)$	Z dB/dt 0.505 millisecond time channel
SFz[27]	$pV/(A*m^4)$	Z dB/dt 0.580 millisecond time channel
SFz[28]	$pV/(A*m^4)$	Z dB/dt 0.667 millisecond time channel
SFz[29]	$pV/(A*m^4)$	Z dB/dt 0.766 millisecond time channel
SFz[30]	$pV/(A*m^4)$	Z dB/dt 0.880 millisecond time channel
SFz[31]	$pV/(A*m^4)$	Z dB/dt 1.010 millisecond time channel
SFz[32]	$pV/(A*m^4)$	Z dB/dt 1.161 millisecond time channel
SFz[33]	$pV/(A*m^4)$	Z dB/dt 1.333 millisecond time channel
SFz[34]	$pV/(A*m^4)$	Z dB/dt 1.531 millisecond time channel
SFz[35]	$pV/(A*m^4)$	Z dB/dt 1.760 millisecond time channel
SFz[36]	$pV/(A*m^4)$	Z dB/dt 2.021 millisecond time channel
SFz[37]	$pV/(A*m^4)$	Z dB/dt 2.323 millisecond time channel
SFz[38]	$pV/(A*m^4)$	Z dB/dt 2.667 millisecond time channel
SFz[39]	$pV/(A*m^4)$	Z dB/dt 3.063 millisecond time channel
SFz[40]	$pV/(A*m^4)$	Z dB/dt 3.521 millisecond time channel
SFz[41]	$pV/(A*m^4)$	Z dB/dt 4.042 millisecond time channel
SFz[42]	$pV/(A*m^4)$	Z dB/dt 4.641 millisecond time channel
SFz[43]	$pV/(A*m^4)$	Z dB/dt 5.333 millisecond time channel
SFz[44]	$pV/(A*m^4)$	Z dB/dt 6.125 millisecond time channel
SFz[45]	$pV/(A*m^4)$	Z dB/dt 7.036 millisecond time channel
SFz[46]	$pV/(A*m^4)$	Z dB/dt 8.083 millisecond time channel
SFx[20]	$pV/(A*m^4)$	X dB/dt 0.220 millisecond time channel
SFx[21]	$pV/(A*m^4)$	X dB/dt 0.253 millisecond time channel
SFx[22]	$pV/(A*m^4)$	X dB/dt 0.290 millisecond time channel
SFx[23]	$pV/(A*m^4)$	X dB/dt 0.333 millisecond time channel
SFx[24]	$pV/(A*m^4)$	X dB/dt 0.383 millisecond time channel
SFx[25]	$pV/(A*m^4)$	X dB/dt 0.440 millisecond time channel
SFx[26]	$pV/(A*m^4)$	X dB/dt 0.505 millisecond time channel
SFx[27]	$pV/(A*m^4)$	X dB/dt 0.580 millisecond time channel
SFx[28]	$pV/(A*m^4)$	X dB/dt 0.667 millisecond time channel
SFx[29]	$pV/(A*m^4)$	X dB/dt 0.766 millisecond time channel
SFx[30]	$pV/(A*m^4)$	X dB/dt 0.880 millisecond time channel
SFx[31]	$pV/(A*m^4)$	X dB/dt 1.010 millisecond time channel
SFx[32]	$pV/(A*m^4)$	X dB/dt 1.161 millisecond time channel
SFx[33]	$pV/(A*m^4)$	X dB/dt 1.333 millisecond time channel
SFx[34]	$pV/(A*m^4)$	X dB/dt 1.531 millisecond time channel
SFx[35]	$pV/(A*m^4)$	X dB/dt 1.760 millisecond time channel
SFx[36]	$pV/(A*m^4)$	X dB/dt 2.021 millisecond time channel
SFx[37]	$pV/(A*m^4)$	X dB/dt 2.323 millisecond time channel
SFx[38]	$pV/(A*m^4)$	X dB/dt 2.667 millisecond time channel
SFx[39]	$pV/(A*m^4)$	X dB/dt 3.063 millisecond time channel
SFx[40]	$pV/(A*m^4)$	X dB/dt 3.521 millisecond time channel
SFx[41]	$pV/(A*m^4)$	X dB/dt 4.042 millisecond time channel
SFx[42]	$pV/(A*m^4)$	X dB/dt 4.641 millisecond time channel
SFx[43]	$pV/(A*m^4)$	X dB/dt 5.333 millisecond time channel
SFx[44]	$pV/(A*m^4)$	X dB/dt 6.125 millisecond time channel
SFx[45]	$pV/(A*m^4)$	X dB/dt 7.036 millisecond time channel
SFx[46]	$pV/(A*m^4)$	X dB/dt 8.083 millisecond time channel
BFz	$(pV*ms)/(A*m^4)$	Z B-Field data for time channels 4 to 46

Channel name	Units	Description
BFx	(pV*ms)/(A*m^4)	X B-Field data for time channels 20 to 46
SFxFF	pV/(A*m^4)	Fraser Filtered X dB/dt
PLM		60 Hz power line monitor

Electromagnetic B-field and dB/dt Z component data is found in array channel format between indexes 4 – 46, and X component data from 20 – 46, as described above.

- Database of the VTEM Waveform “GL210151_Waveform.gdb” in Geosoft GDB format, containing the following channels:

Table 6**:** Geosoft database for the VTEM waveform

Channel name	Units	Description
Time	milliseconds	Sampling rate interval, 5.2083 microseconds
Tx_Current	amps	Output current of the transmitter

- Preliminary grids in Geosoft GRD and GeoTIFF format, as follows:

GL210151_Prelim_BFz30:	B-Field Z Component Channel 30 (Time Gate 0.880ms)
GL210151_Prelim _SFxFF30:	Fraser Filtered dB/dt X Component Channel 20 (Time Gate 0.220ms)
GL210151_Prelim _SFz30:	dB/dt Z Component Channel 30 (Time Gate 0.880ms)
GL210151_Prelim _TMI3:	Total Magnetic Intensity (nT)
GL210151_Prelim _CVG:	Calculated Vertical Derivative (nT/m)
GL210151_Prelim _DEM:	Digital Elevation Model (m)
GL210151_Prelim _PLM:	60 Hz Power Line Monitor

A Geosoft .GRD file has a .GI metadata file associated with it, containing grid projection information. A grid cell size of 25 metres was used.

6. CONCLUSIONS AND RECOMMENDATIONS

A helicopter-borne versatile time domain electromagnetic (VTEM™plus) horizontal magnetic gradiometer geophysical survey has been completed over the EPSG 6660 Project near La Sarre, QC, on behalf of Jadeite Capital Ltd.

The total area coverage is 321km^2 and the total survey line coverage is 3520 line kilometres over one survey block. The principal sensors included a Time Domain EM system, and a horizontal magnetic gradiometer system with two caesium magnetometers. Preliminary Results have been presented as stacked profiles, and contour colour images at a scale of 1:20,000.

Respectfully submitted[1],

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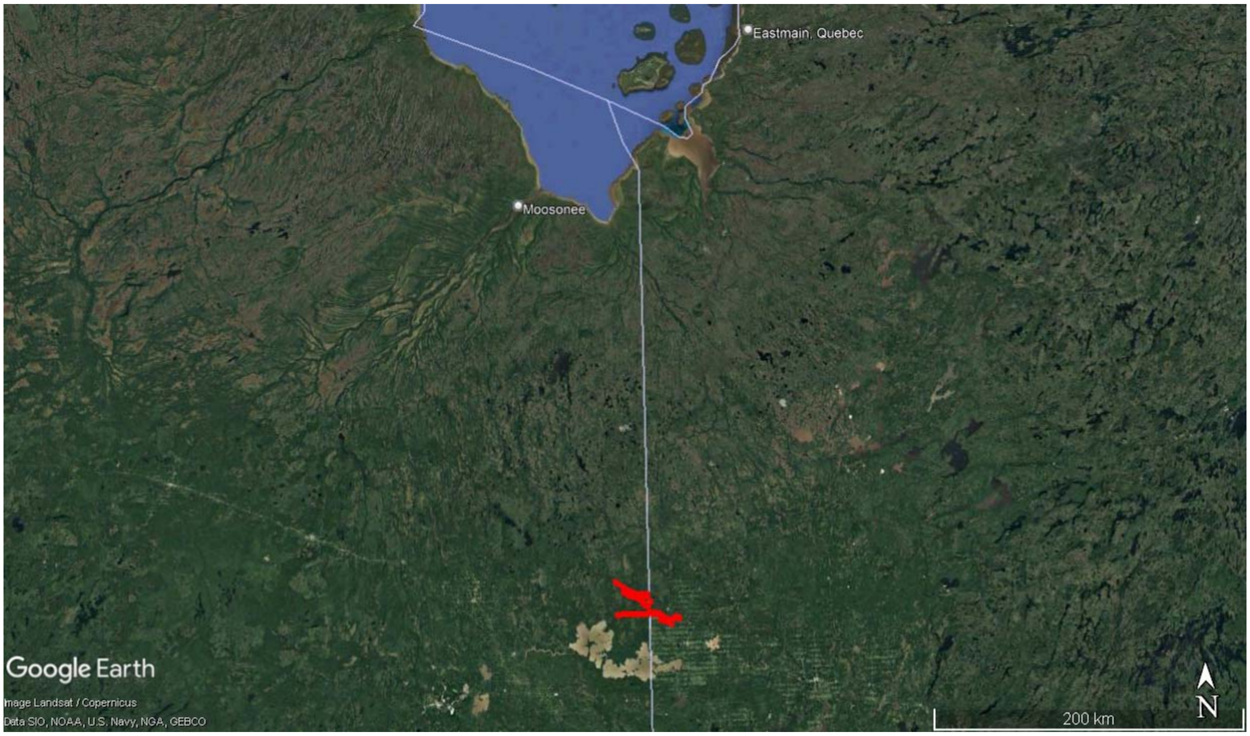
Emily Data
Geotech Ltd.

November 2021

[1]Final data processing of the EM and magnetic data are being carried out by Shuang Wang, from the offices of Geotech Ltd. in Aurora, Ontario, under the supervision of TaiChyi Shei, Emily Data & Jean M. Legault, Chief Geophysicist.

APPENDIX A

SURVEY AREA LOCATION MAP



Overview of the Survey Area

APPENDIX B

SURVEY AREA COORDINATES
(WGS84 UTM Zone 17N)

X	Y
585731	5447544
586982	5447525
586982	5447323
587483	5447313
587463	5446832
588397	5446736
588368	5446293
588782	5446274
588763	5445946
589253	5445946
589263	5445840
589764	5445821
589773	5445532
590264	5445523
590264	5445407
590678	5445417
590678	5444993
591073	5444984
591063	5444493
592064	5444503
592064	5444041
592497	5444031
592487	5443588
593373	5443579
593411	5443194
593864	5443155
593883	5442693
594768	5442693
594768	5442222
595673	5442260
595769	5441817
596645	5441779
596684	5441365
597569	5441346
597579	5440884
598955	5440913
598965	5440441
599850	5440441
599850	5439998
601669	5440018

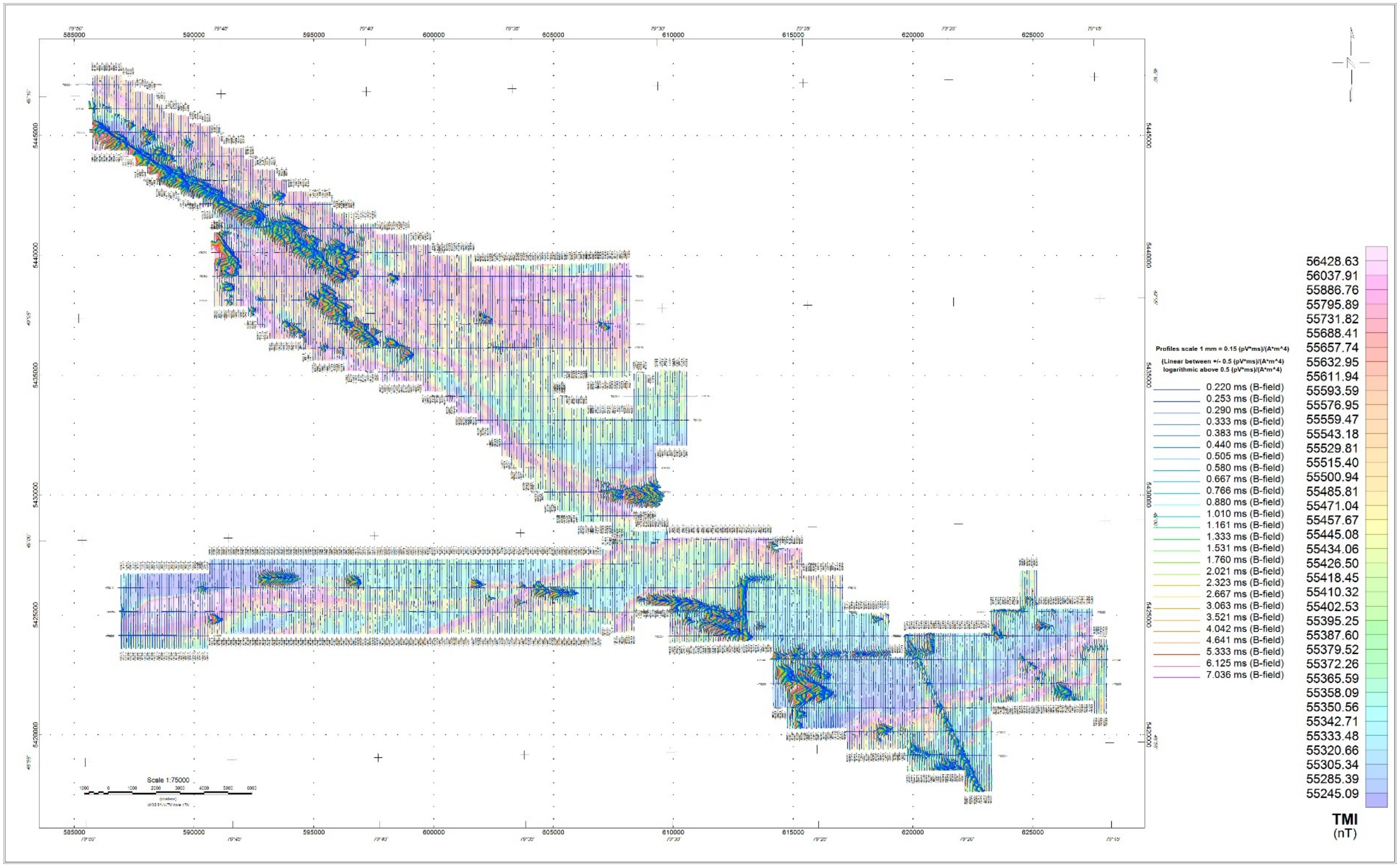
X	Y
601669	5439584
608156	5439700
608185	5434926
606424	5434878
606405	5435330
605471	5435340
605471	5434859
604990	5434839
604961	5434098
605471	5434098
605471	5433646
606414	5433627
606395	5433222
608368	5433251
608349	5435090
608898	5435109
608888	5434493
609244	5434493
609263	5435186
610582	5435224
610582	5432039
609254	5432039
609273	5429488
608262	5429459
608282	5428150
608445	5428516
609764	5428535
609783	5428218
614104	5428198
614095	5427765
615385	5427794
615413	5426649
617059	5426687
617069	5425032
618975	5425090
618984	5423222
619639	5423242
619648	5424223
623248	5424271
623238	5425263

X	Y
624413	5425263
624451	5426880
625202	5426870
625173	5425244
627473	5425263
627464	5424040
628108	5424002
628108	5420864
627550	5420884
627521	5421413
623286	5421336
623286	5417602
622151	5417602
622141	5418526
619735	5418458
619735	5419401
617242	5419353
617242	5420287
614749	5420210
614730	5421124
614133	5421134
614133	5423915
609812	5423819
609812	5425378
608503	5425388
608378	5424281
607521	5424262
607540	5424618
606963	5424608
606973	5424194
590630	5424175
590562	5423569
586905	5423569
586924	5426755
590639	5426755
590620	5427351
607021	5427351
607021	5427765
607454	5427756
607425	5428141

X	Y
607925	5428112
607954	5428458
607396	5428449
607386	5428891
606029	5428882
606029	5429334
605125	5429324
605125	5429767
604615	5429767
604624	5430191
604230	5430200
604239	5430701
603719	5430701
603719	5431172
603200	5431115
603219	5431586
602815	5431586
602805	5432520
602324	5432520
602305	5432972
601794	5432953
601804	5433425
600938	5433386
600938	5433848
600534	5433887
600514	5434291
599504	5434310
599513	5434791
597714	5434734
597723	5435176
596328	5435186
596318	5435648
594922	5435619
594922	5436052
594547	5436052
594528	5436533
593142	5436514
593142	5436957
592613	5437005
592613	5437419

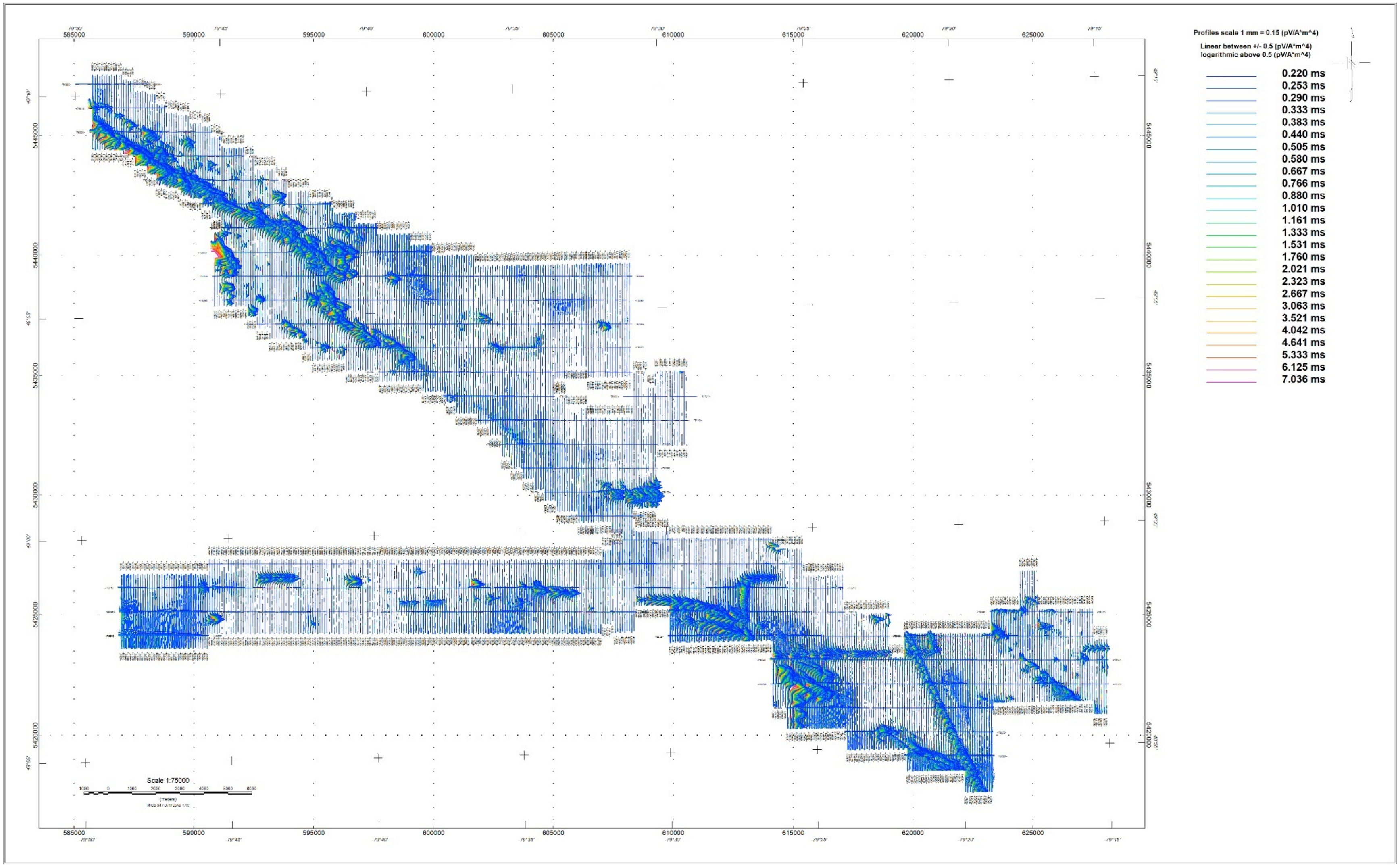
X	Y
592218	5437448
592228	5437910
590822	5437842
590832	5441009
591207	5441047
591227	5441423
590726	5441557
590707	5442019
590331	5442029
590341	5442404
589417	5442501
588416	5442943
588407	5443377
587993	5443415
588012	5443723
587511	5443713
587521	5444185
587001	5444214
587030	5444358
585740	5444406

APPENDIX C - GEOPHYSICAL MAPS[1]

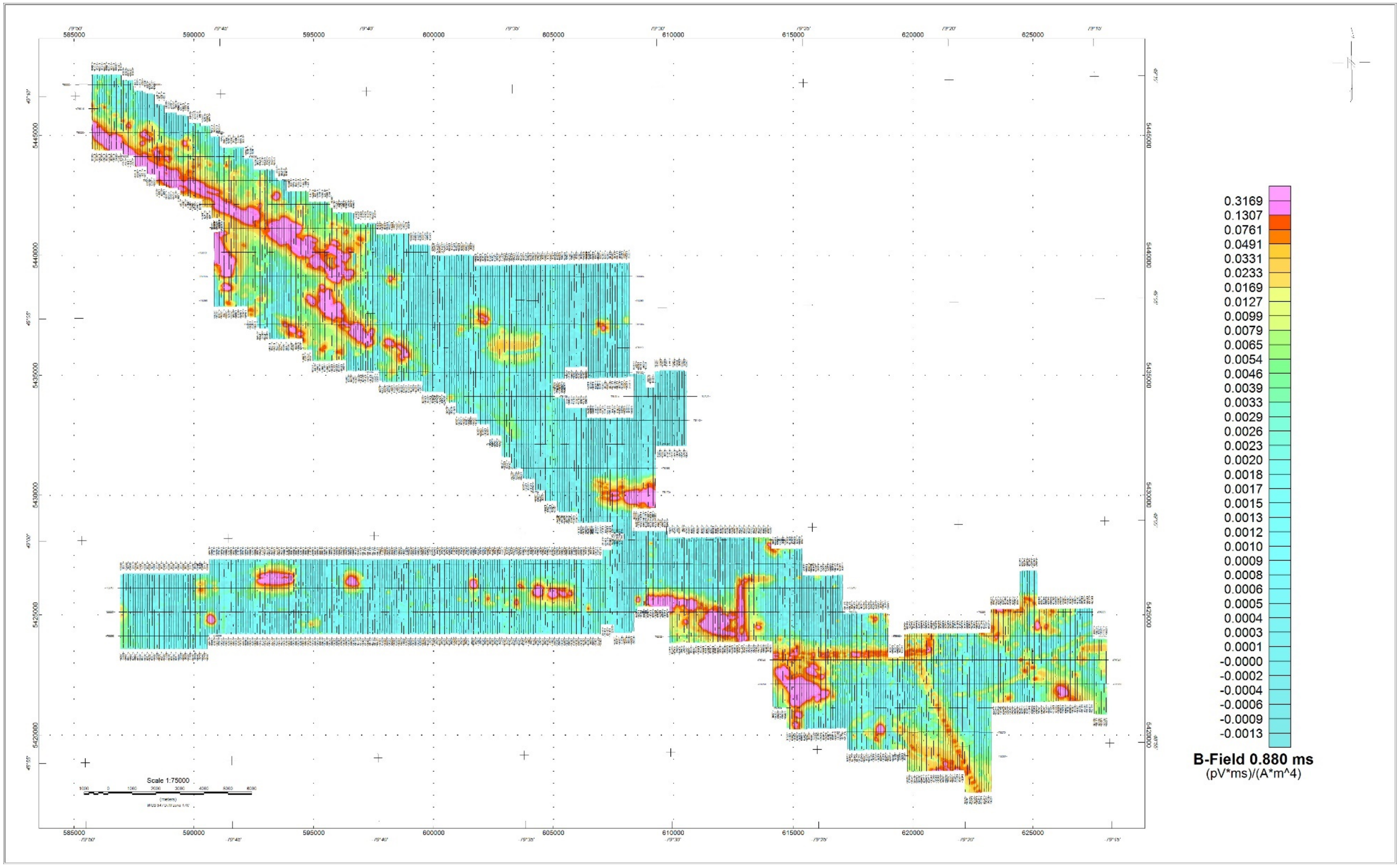


Z Component dB/dt profiles, Time Gates 0.220 – 7.036 ms

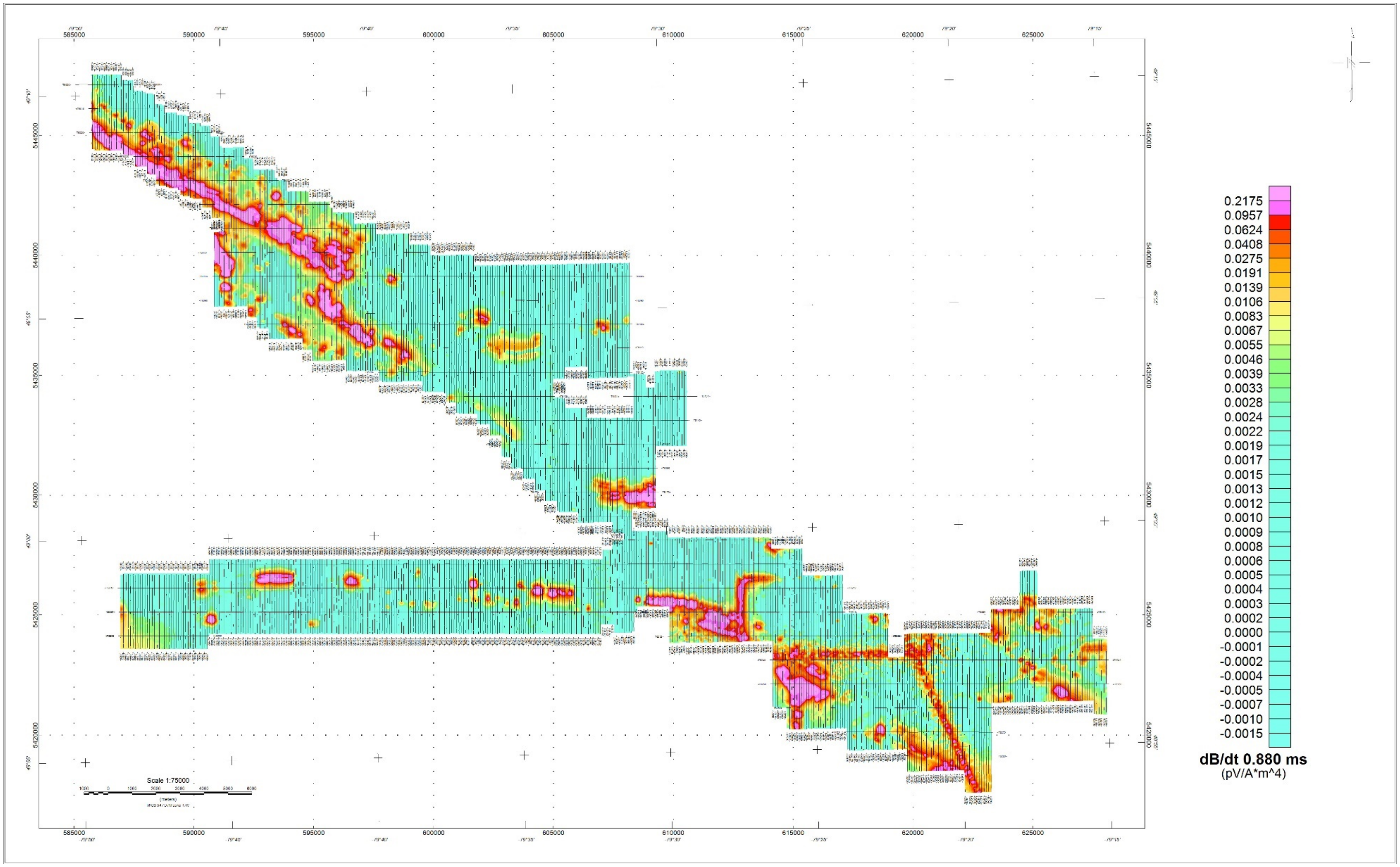
[1]Complete full size geophysical maps are also available in PDF format located in the final data maps folder.



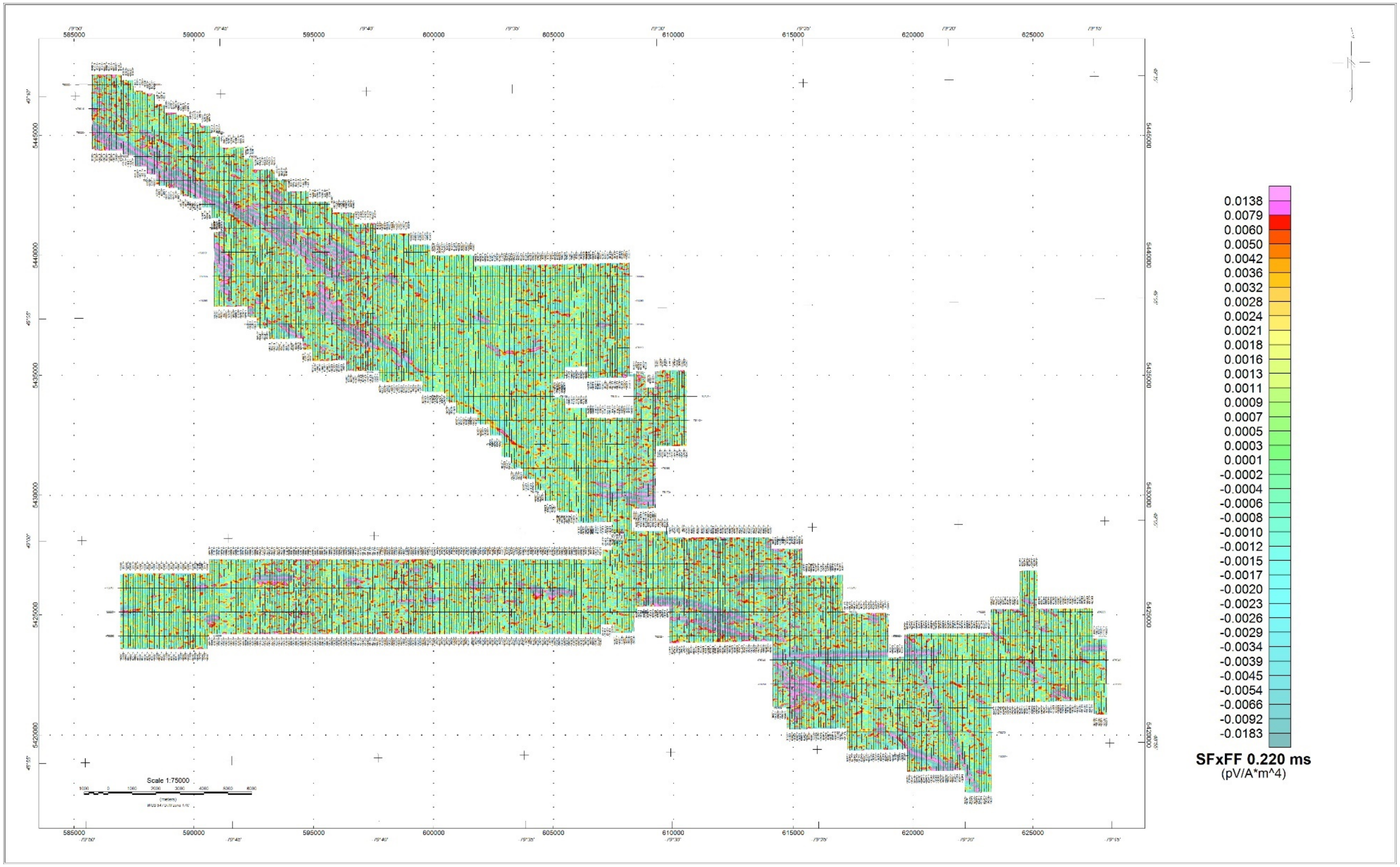
Z Component B-field profiles, Time Gates 0.220 – 7.036 ms over TMI colour image



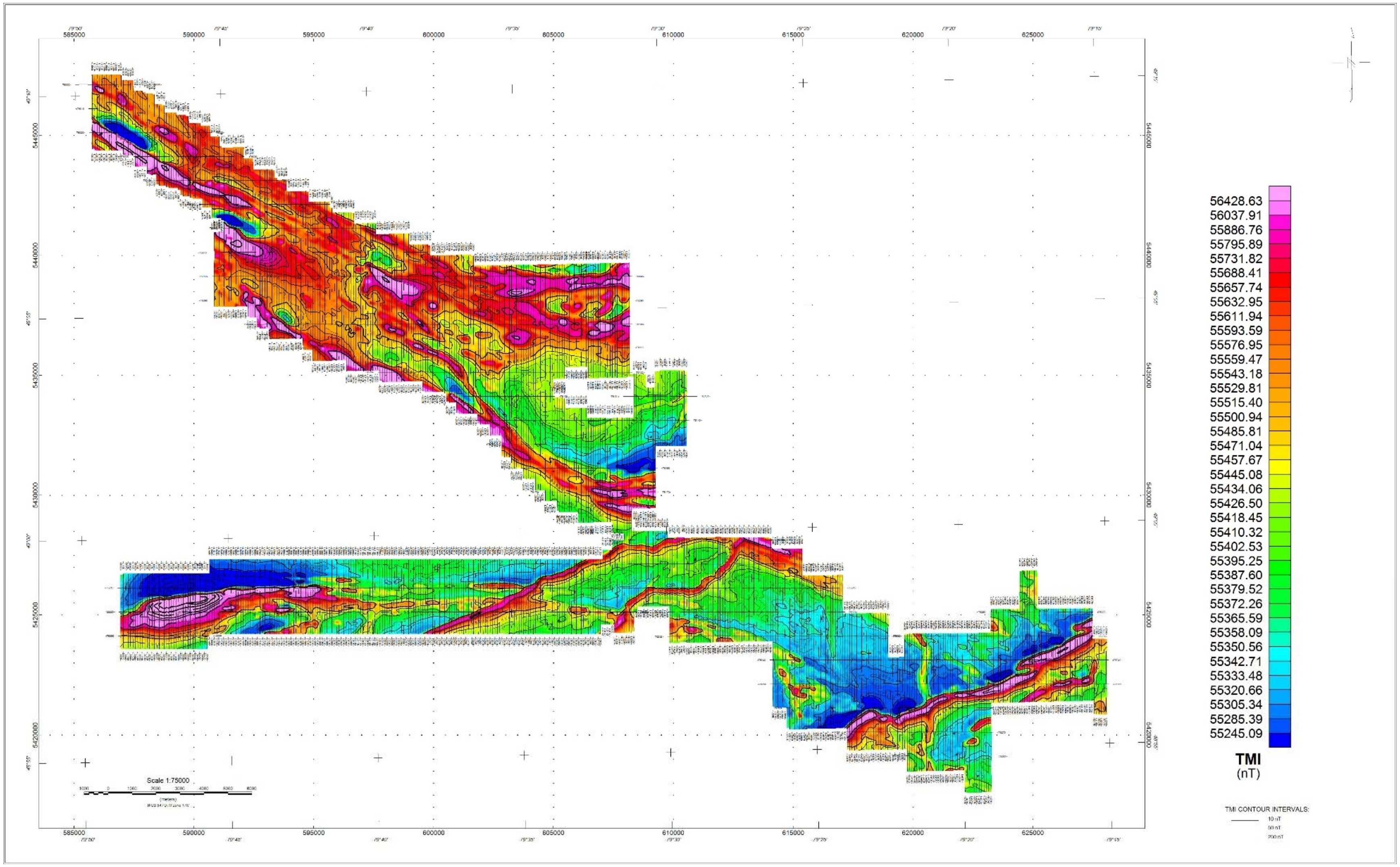
B-field Z Component Channel 30, Time Gate 0.880 ms colour image



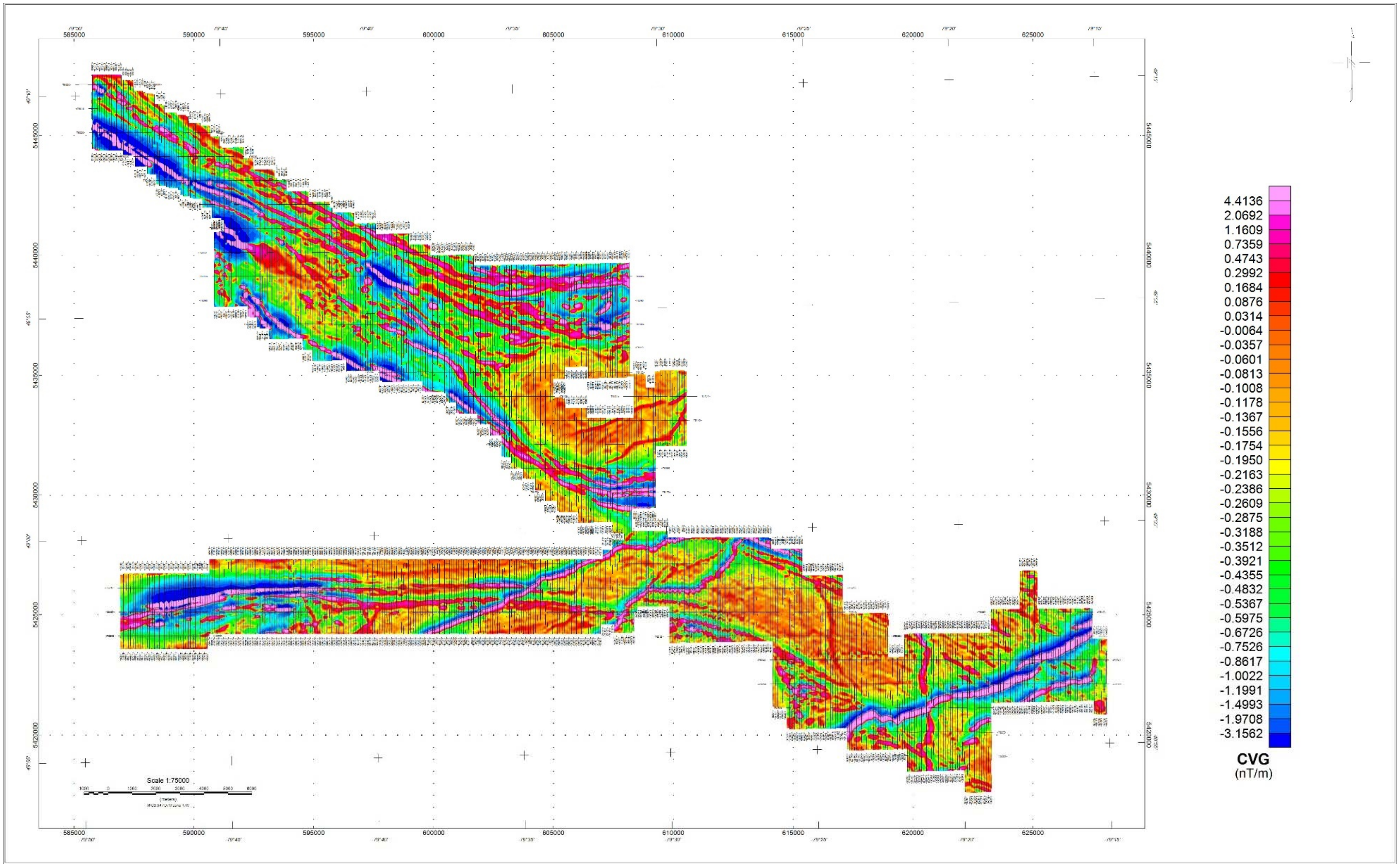
VTEM dB/dt Z Component Channel 30, Time Gate 0.880 ms colour image



Fraser Filtered dB/dt X Component Channel 20, Time Gate 0.220 ms colour image



Total Magnetic Intensity (TMI) colour image and contours



Calculated Vertical Gradient (CVG)

APPENDIX D

GENERALIZED MODELING RESULTS OF THE VTEM SYSTEM
INTRODUCTION

The VTEM system is based on a concentric or central loop design, whereby, the receiver is positioned at the centre of a transmitter loop that produces a primary field. The wave form is a bi-polar, modified square wave with a turn-on and turn-off at each end.

During turn-on and turn-off, a time varying field is produced (dB/dt) and an electro-motive force (emf) is created as a finite impulse response. A current ring around the transmitter loop moves outward and downward as time progresses. When conductive rocks and mineralization are encountered, a secondary field is created by mutual induction and measured by the receiver at the centre of the transmitter loop.

Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

A set of models has been produced for the Geotech VTEM™ system dB/dT Z and X components (see models D1 to D15). The Maxwell ™ modeling program (EMIT Technology Pty. Ltd. Midland, WA, AU) used to generate the following responses assumes a resistive half-space. The reader is encouraged to review these models, so as to get a general understanding of the responses as they apply to survey results. While these models do not begin to cover all possibilities, they give a general perspective on the simple and most commonly encountered anomalies.

As the plate dips and departs from the vertical position, the peaks become asymmetrical.

As the dip increases, the aspect ratio (Min/Max) decreases, and this aspect ratio can be used as an empirical guide to dip angles from near 90º to about 30º. The method is not sensitive enough where dips are less than about 30º.

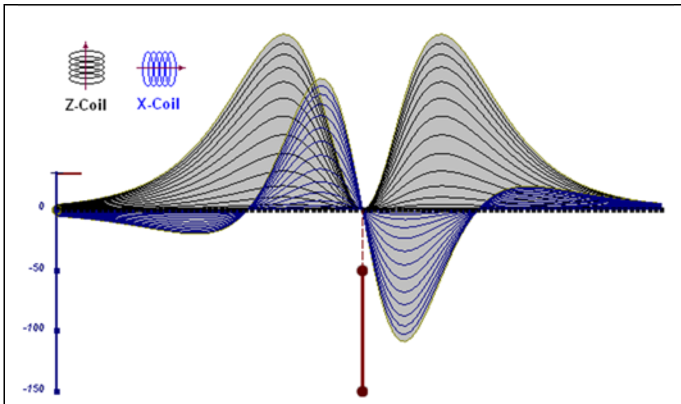


Figure D-1: vertical thin plate

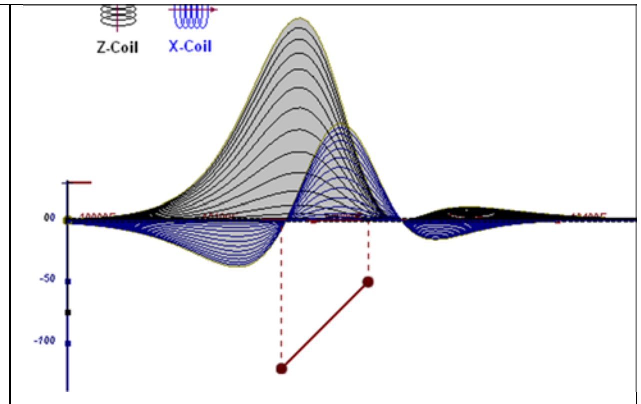


Figure D-2: inclined thin plate

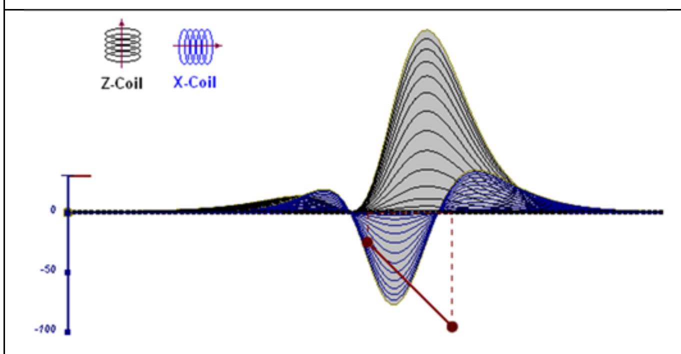


Figure D-3: inclined thin plate

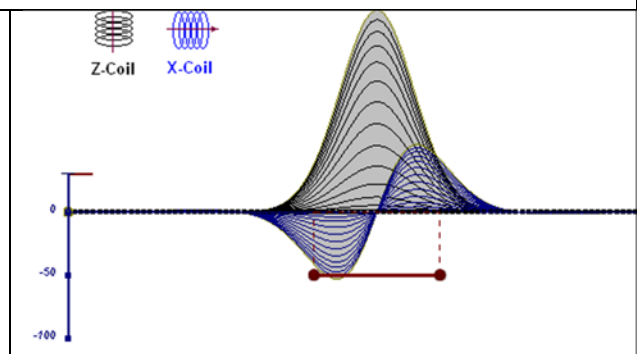


Figure D-4: horizontal thin plate

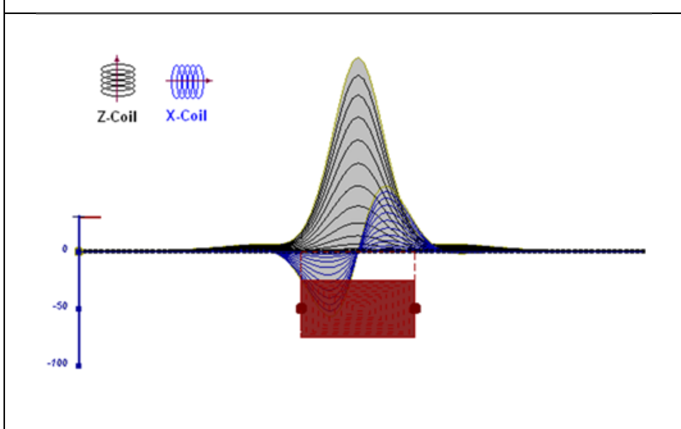


Figure D-5: horizontal thick plate (linear scale of the response)

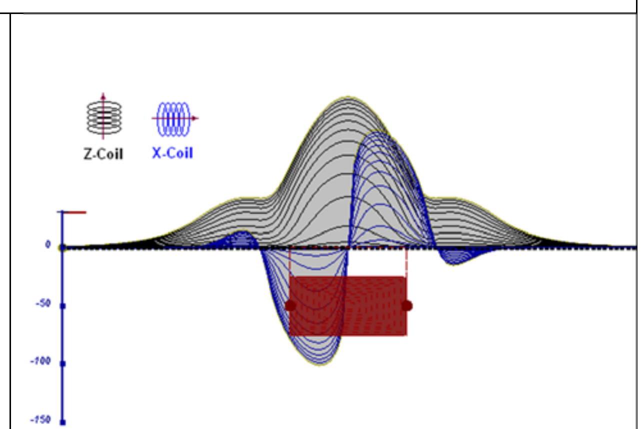


Figure D-6: horizontal thick plate (log scale of the response)

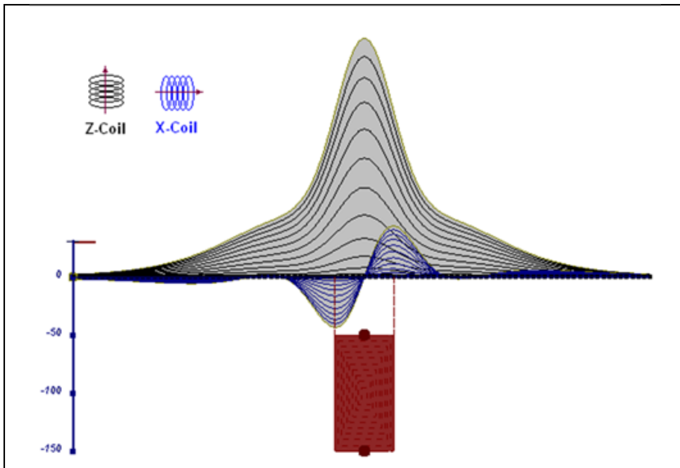


Figure D-7: vertical thick plate (linear scale of the response). 50 m depth

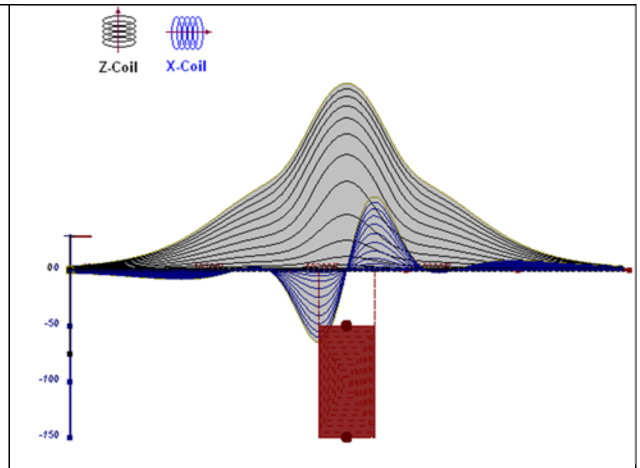


Figure D-8: vertical thick plate (log scale of the response). 50 m depth

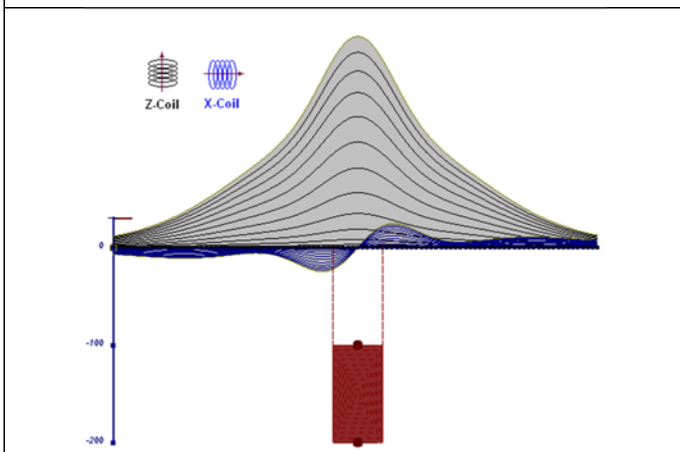


Figure D-9: vertical thick plate (linear scale of the response). 100 m depth

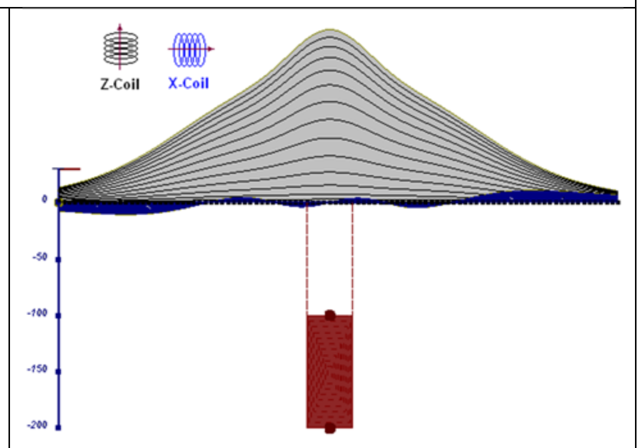


Figure D-10: vertical thick plate (linear scale of the response). Depth / horizontal thickness=2.5

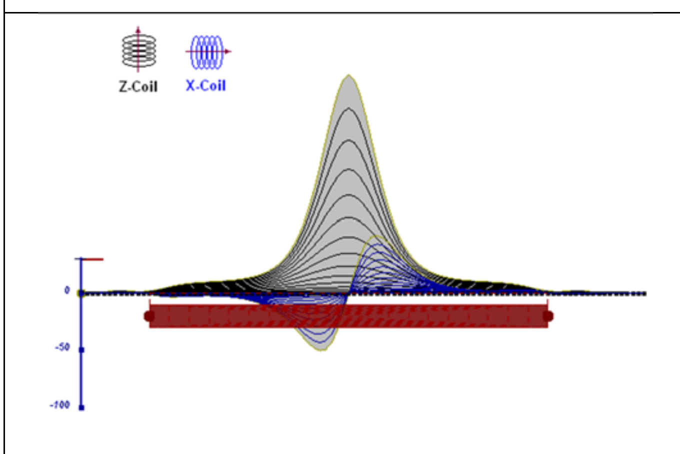


Figure D-11: horizontal thick plate (linear scale of the response)

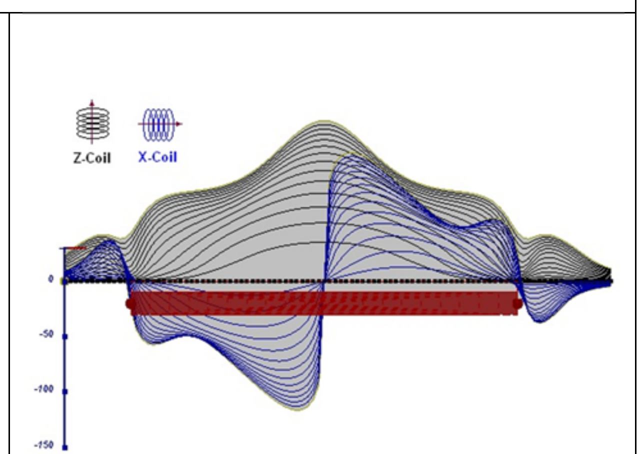


Figure D-12: horizontal thick plate (log scale of the response)

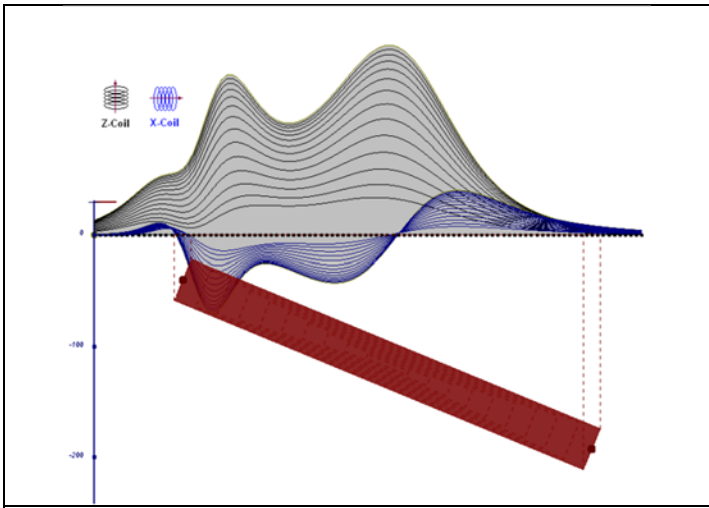


Figure D-13: inclined long thick plate

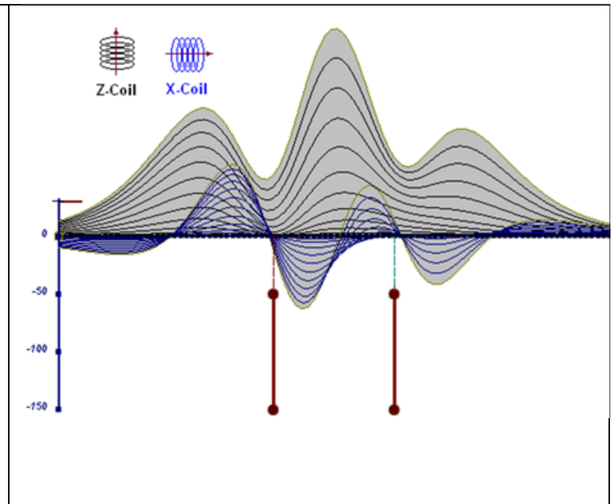


Figure D-14: two vertical thin plates

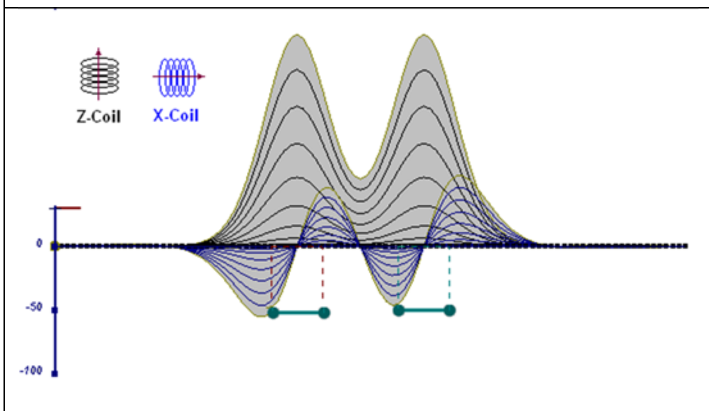


Figure D-15: two horizontal thin plates

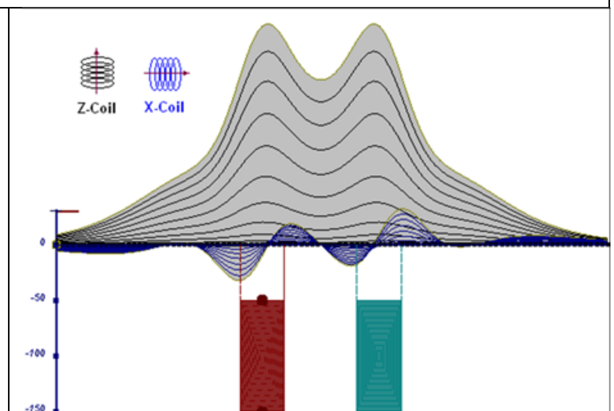


Figure D-16: two vertical thick plates

The same type of target but with different thickness, for example, creates different form of the response:

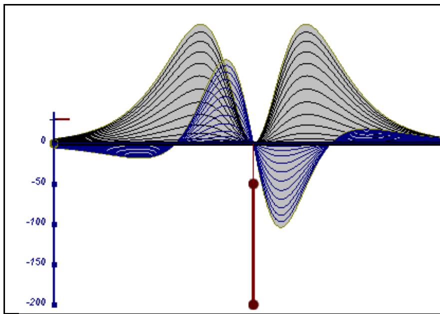
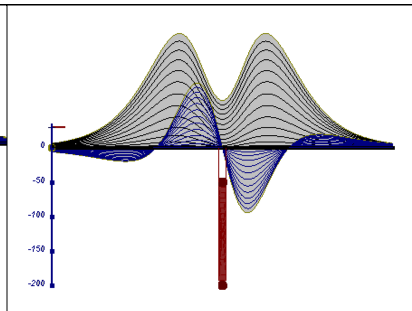
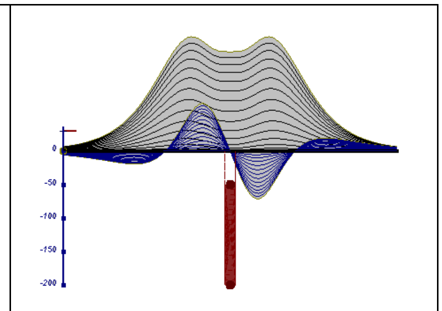
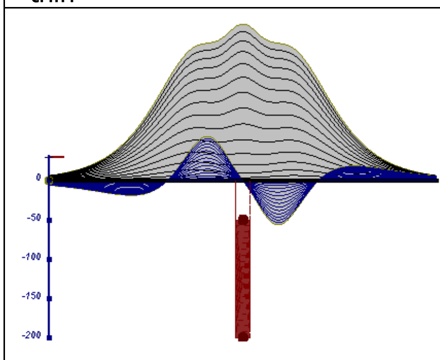
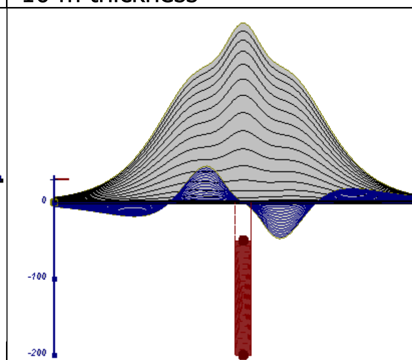
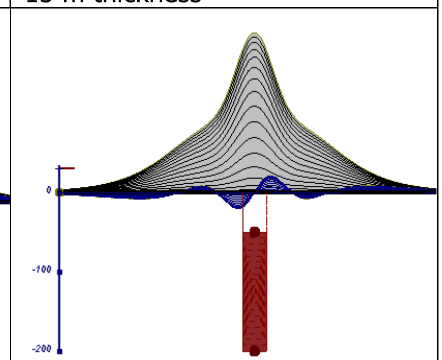
		
"thin"	10 m thickness	15 m thickness
		
18 m thickness	20 m thickness	30 m thickness

Figure E-17: Conductive vertical plate, depth 50 m, strike length 200 m, depth extends 150 m.

Geotech Ltd.

September 2010

APPENDIX E

EM TIME CONSTANT (TAU) ANALYSIS

Estimation of time constant parameter[1] in transient electromagnetic method is one of the steps toward the extraction of the information about conductances beneath the surface from TEM measurements.

The most reliable method to discriminate or rank conductors from overburden, background or one and other is by calculating the EM field decay time constant (TAU parameter), which directly depends on conductance despite their depth and accordingly amplitude of the response.

Theory

As established in electromagnetic theory, the magnitude of the electro-motive force (emf) induced is proportional to the time rate of change of primary magnetic field at the conductor. This emf causes eddy currents to flow in the conductor with a characteristic transient decay, whose Time Constant (Tau) is a function of the conductance of the survey target or conductivity and geometry (including dimensions) of the target. The decaying currents generate a proportional secondary magnetic field, the time rate of change of which is measured by the receiver coil as induced voltage during the Off time.

The receiver coil output voltage (**e_0**) is proportional to the time rate of change of the secondary magnetic field and has the form,

$$e_0 \alpha \ (1 / \tau) \ e^{-(t / \tau)}$$

Where,
τ = L/R is the characteristic time constant of the target (TAU)
R = resistance
L = inductance

From the expression, conductive targets that have small value of resistance and hence large value of τ yield signals with small initial amplitude that decays relatively slowly with progress of time. Conversely, signals from poorly conducting targets that have large resistance value and smallτ, have high initial amplitude but decay rapidly with time[1](Fig. E1).

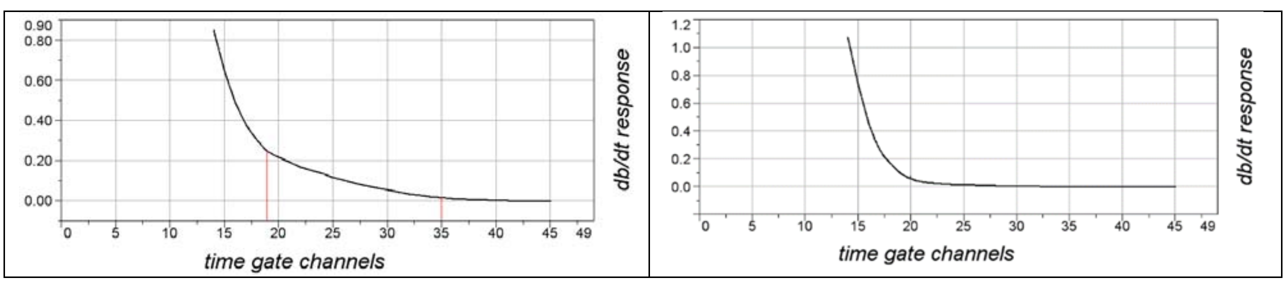


Figure E-1:Left – presence of good conductor, right – poor conductor.

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[1]McNeill, JD, 1980, "Applications of Transient Electromagnetic Techniques", Technical Note TN-7 page 5, Geonics Limited, Mississauga, Ontario.

EM Time Constant (Tau) Calculation

The EM Time-Constant (TAU) is a general measure of the speed of decay of the electromagnetic response and indicates the presence of eddy currents in conductive sources as well as reflecting the "conductance quality" of a source. Although TAU can be calculated using either the measured dB/dt decay or the calculated B-field decay, dB/dt is commonly preferred due to better stability (S/N) relating to signal noise. Generally, TAU calculated on base of early time response reflects both near surface overburden and poor conductors whereas, in the late ranges of time, deep and more conductive sources, respectively. For example, early time TAU distribution in an area that indicates conductive overburden is shown in Figure 2.

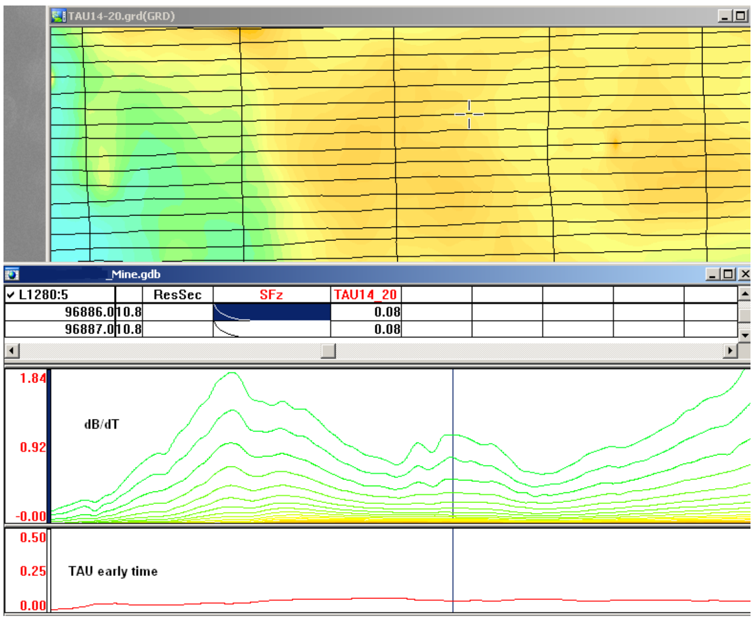

Figure E-2: Map of early time TAU. Area with overburden conductive layer and local sources.

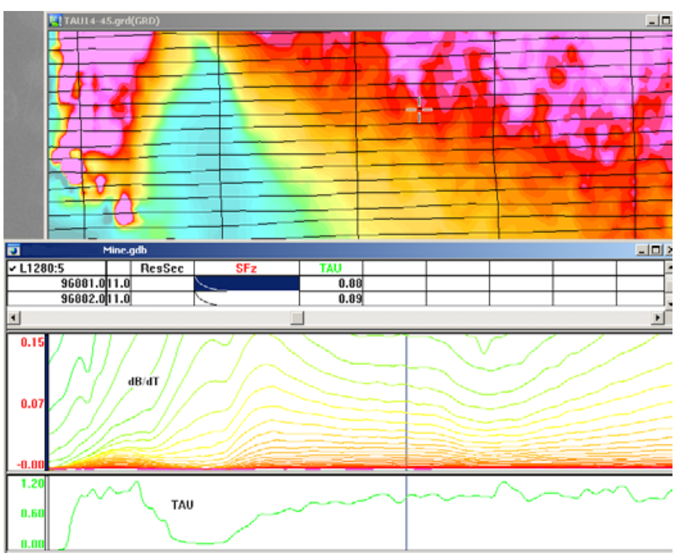

Figure E-3: Map of full-time range TAU with EM anomaly due to deep highly conductive target.

There are many advantages of TAU maps:

- TAU depends only on one parameter (conductance) in contrast to response magnitude.
- TAU is integral parameter, which covers time range, and all conductive zones and targets are displayed independently of their depth and conductivity on a single map.
- Very good differential resolution in complex conductive places with many sources with different conductivity.
- Signs of the presence of good conductive targets are amplified and emphasized independently of their depth and level of response accordingly.

In the example shown in Figure 4 and 5, three local targets are defined, each of them with a different depth of burial, as indicated on the resistivity depth image (RDI). All are very good conductors, but the deeper target (number 2) has a relatively weak dB/dt signal yet also features the strongest total TAU (Figure 4). This example highlights the benefit of TAU analysis in terms of an additional target discrimination tool.

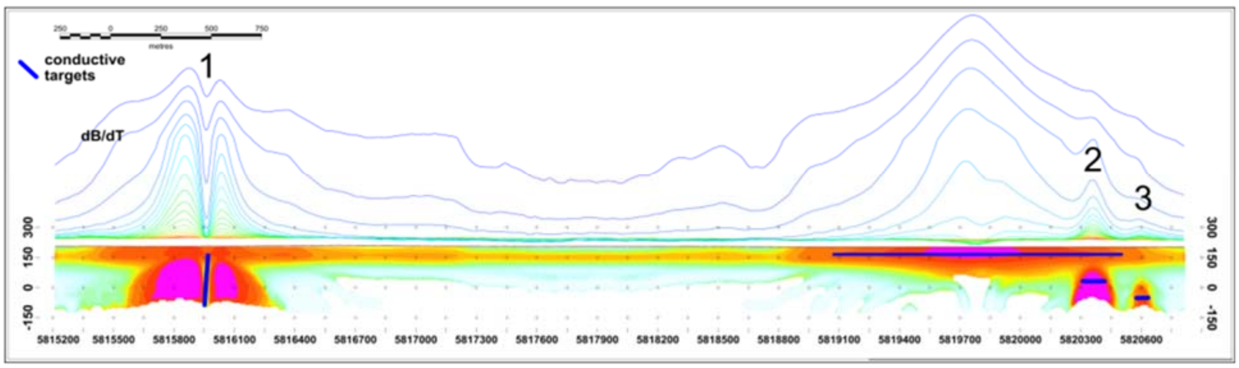

Figure E-4: dB/dt profile and RDI with different depths of targets.

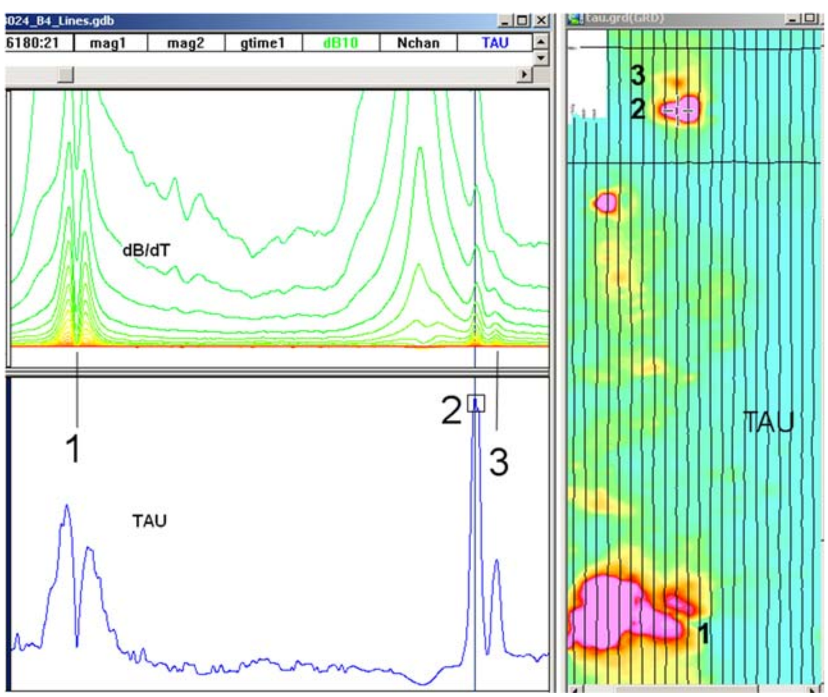

Figure E-5: Map of total TAU and dB/dt profile.

The EM Time Constants for dB/dt and B-field were calculated using the "sliding Tau" in-house program developed at Geotech. The principle of the calculation is based on using of time window (4 time channels) which is sliding along the curve decay and looking for latest time channels which have a response above the level of noise and decay. The EM decays are obtained from all available decay channels, starting at the latest channel. Time constants are taken from a least square fit of a straight-line (log/linear space) over the last 4 gates above a pre-set signal threshold level (Figure E6). Threshold settings are pointed in the "label" property of TAU database channels. The sliding Tau method determines that, as the amplitudes increase, the time-constant is taken at progressively later times in the EM decay. Conversely, as the amplitudes decrease, Tau is taken at progressively earlier times in the decay. If the maximum signal amplitude falls below the threshold or becomes negative for any of the 4 time gates, then Tau is not calculated and is assigned a value of "dummy" by default.

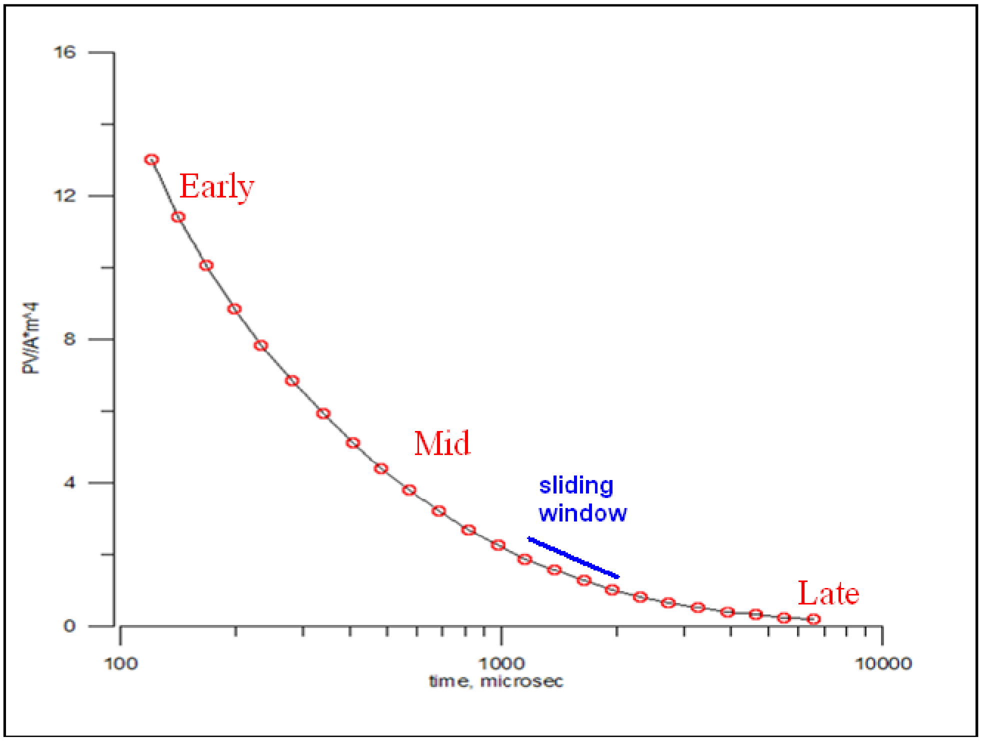

Figure E-6: Typical dB/dt decays of Vtem data

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APPENDIX F

TEM RESISTIVITY DEPTH IMAGING (RDI)

Resistivity depth imaging (RDI) is technique used to rapidly convert EM profile decay data into an equivalent resistivity versus depth cross-section, by deconvolving the measured TEM data.
The used RDI algorithm of Resistivity-Depth transformation is based on scheme of the apparent resistivity transform of Meju (1998)[1] and TEM response from conductive half-space. The program is developed by Geotech Ltd. and depth calibrated based on forward plate modeling for VTEM system configuration (Fig. 1-10).

RDIs provide reasonable indications of conductor relative depth and vertical extent, as well as accurate 1D layered-earth apparent conductivity/resistivity structure across VTEM flight lines. Approximate depth of investigation of a TEM system, image of secondary field distribution in half space, effective resistivity, initial geometry and position of conductive targets is the information obtained on base of the RDIs.

Maxwell plate EM forward modeling with RDI sections from the synthetic responses (VTEM system) are presented below.

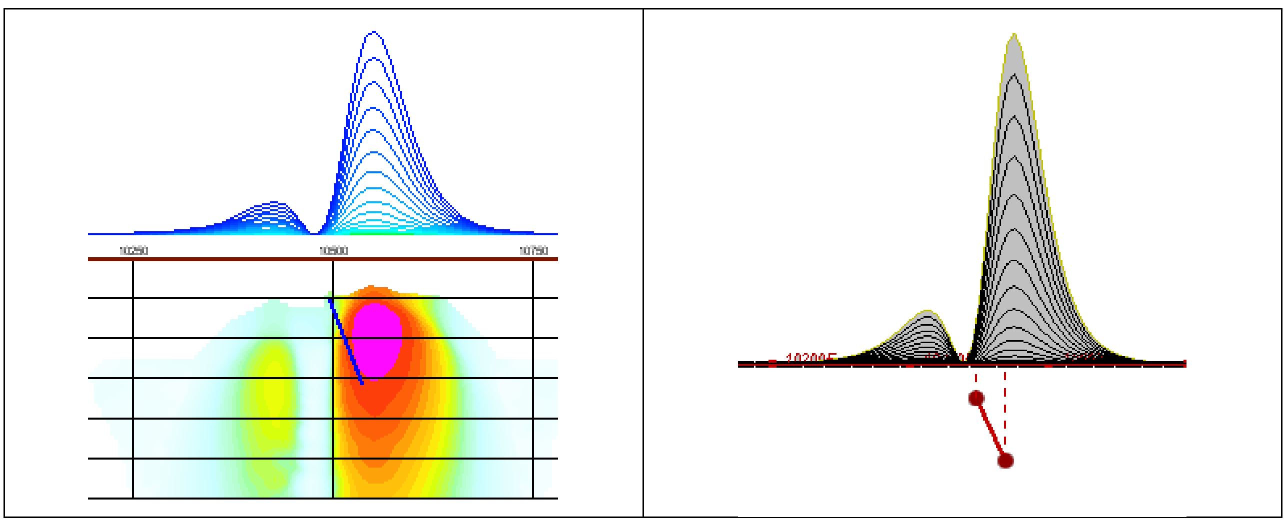


Figure F-1: Maxwell plate model and RDI from the calculated response for conductive "thin" plate (depth 50 m, dip 65 degrees, depth extend 100 m).

[1]Maxwell A.Meju, 1998, Short Note: A simple method of transient electromagnetic data analysis, Geophysics, **63**, 405–410.

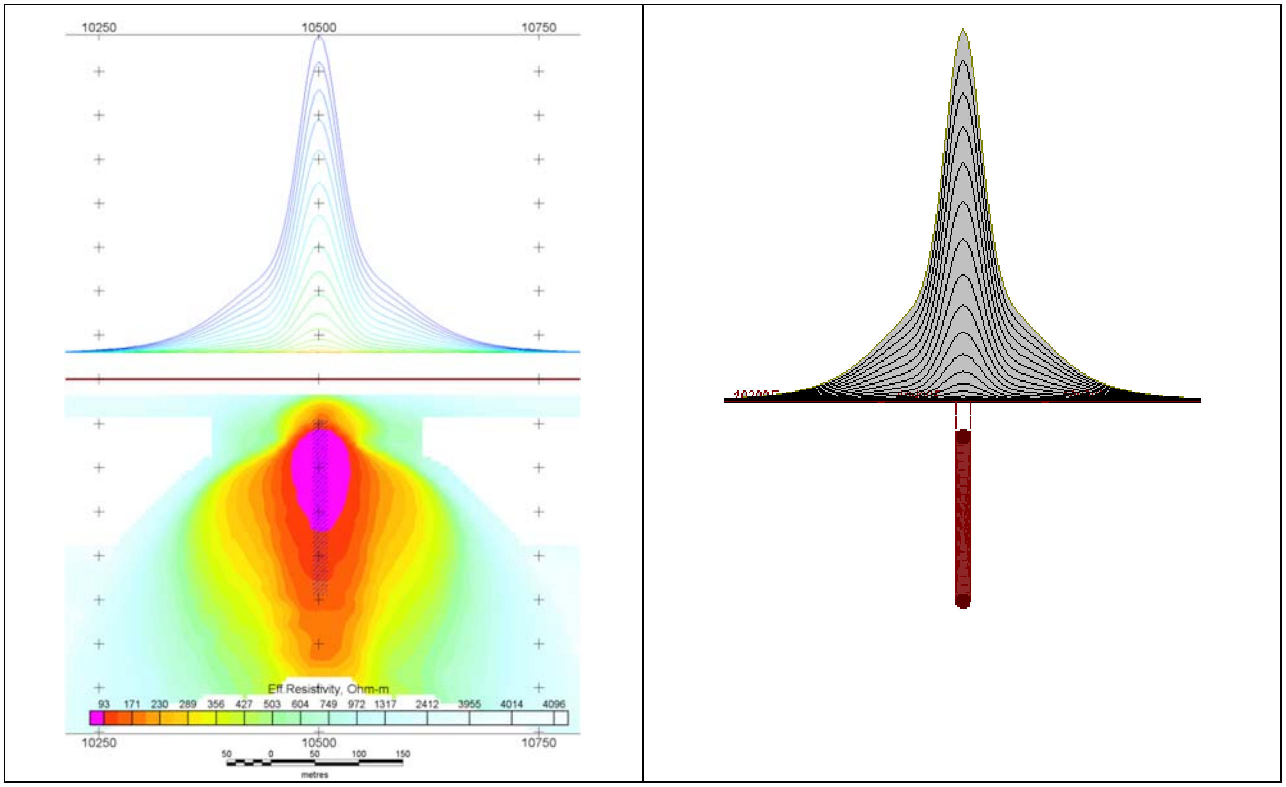


Figure F-2: Maxwell plate model and RDI from the calculated response for "thick" plate 18 m thickness, depth 50 m, depth extend 200 m).

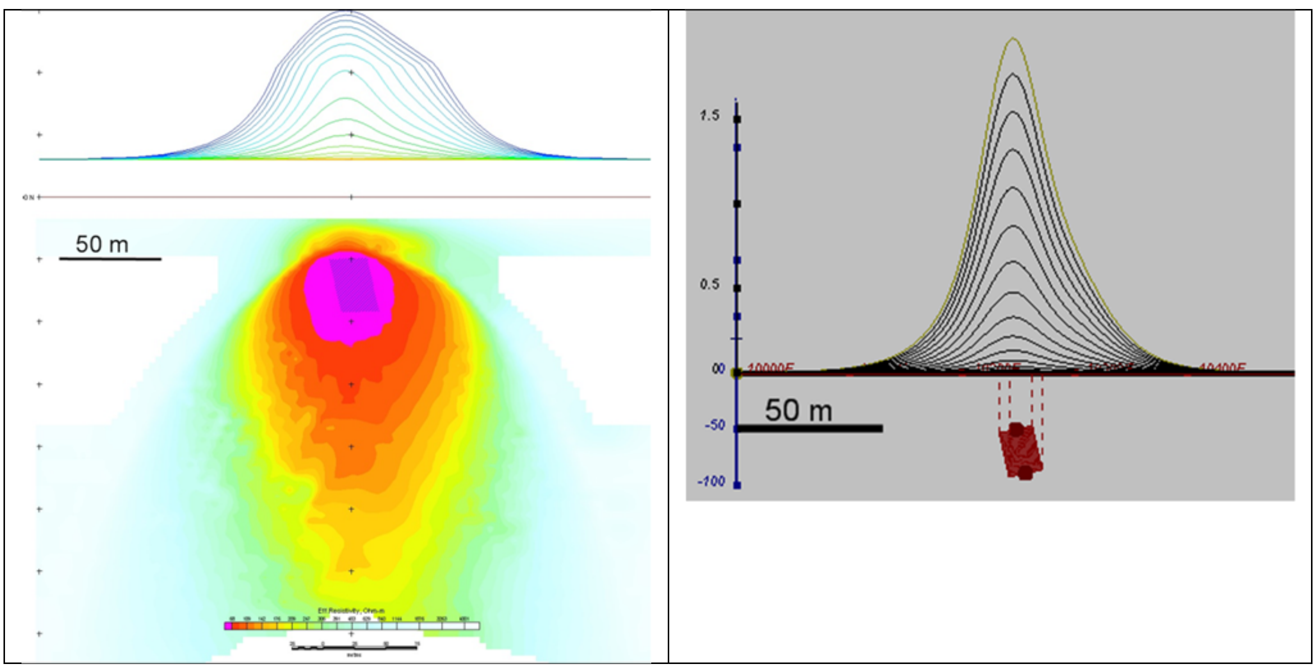


Figure F-3: Maxwell plate model and RDI from the calculated response for bulk ("thick") 100 m length, 40 m depth extend, 30 m thickness.

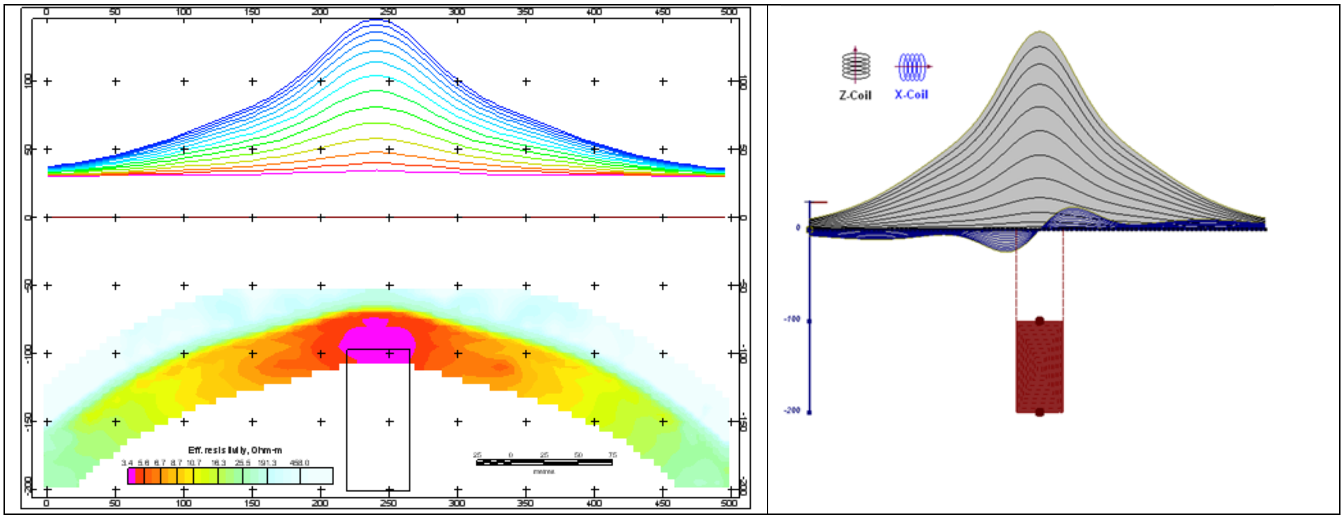


Figure F-4: Maxwell plate model and RDI from the calculated response for "thick" vertical target (depth 100 m, depth extend 100 m). 19-44 chan.

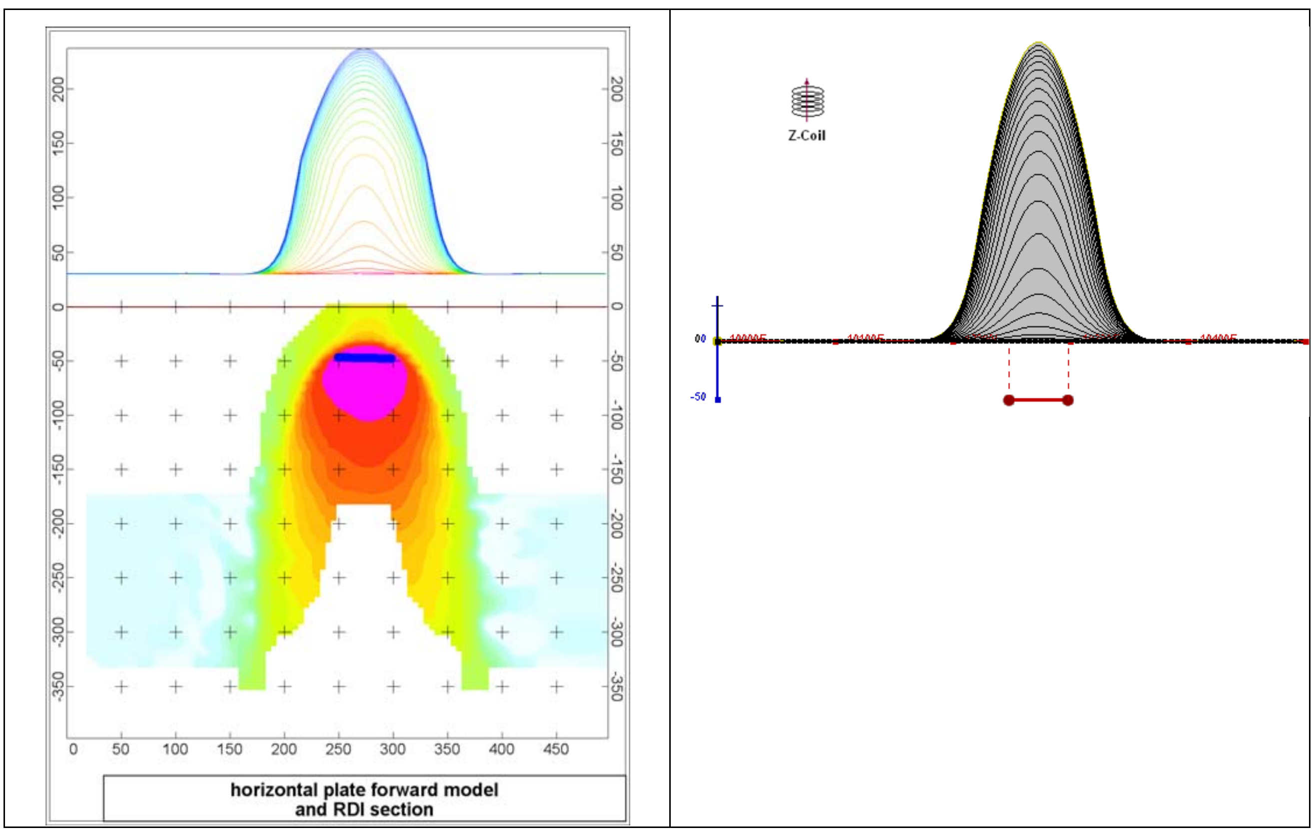


Figure F-5: Maxwell plate model and RDI from the calculated response for horizontal thin plate (depth 50 m, dim 50x100 m). 15-44 chan.

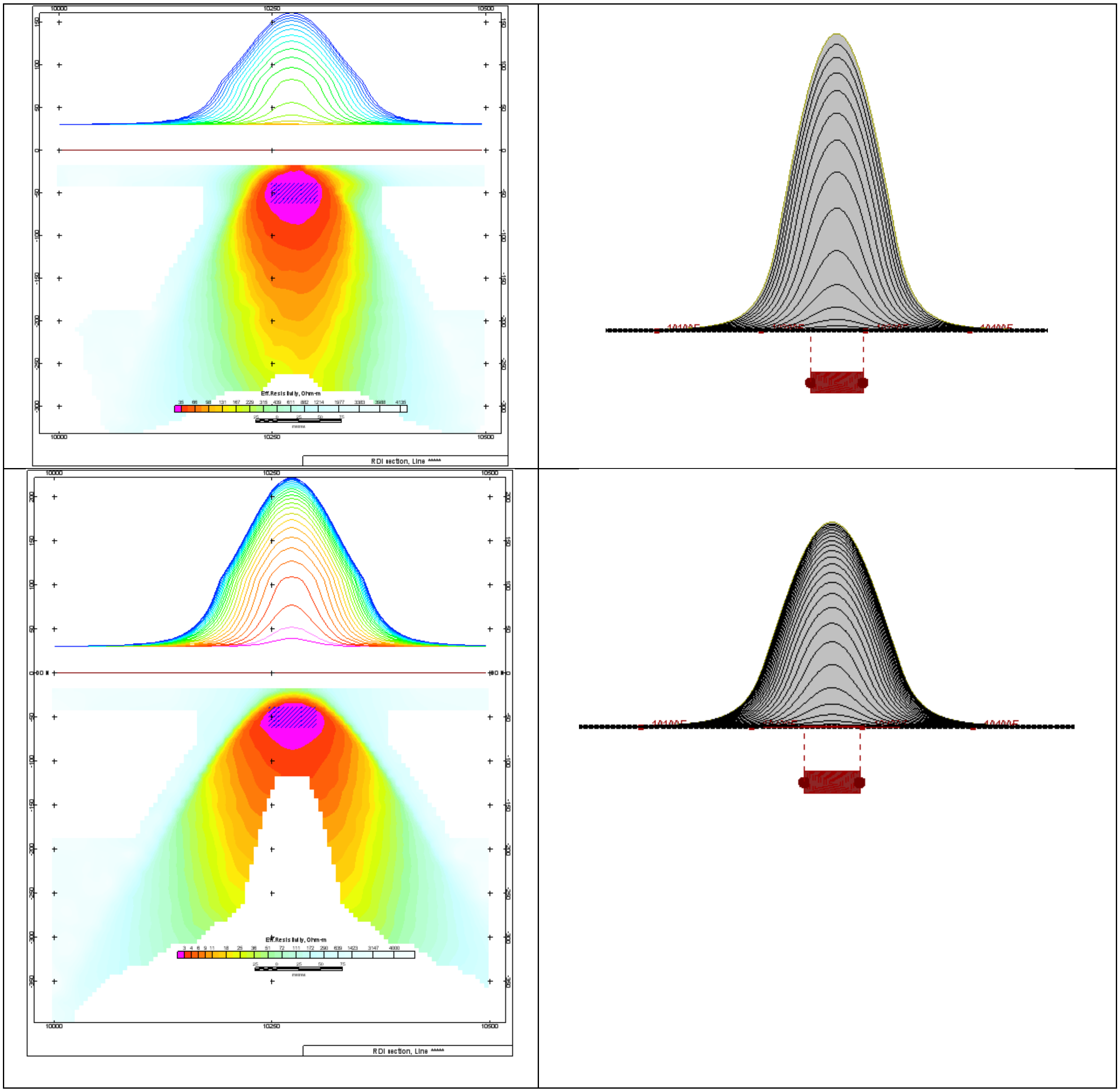


Figure F-6: Maxwell plate model and RDI from the calculated response for horizontal thick (20m) plate – less conductive (on the top), more conductive (below).

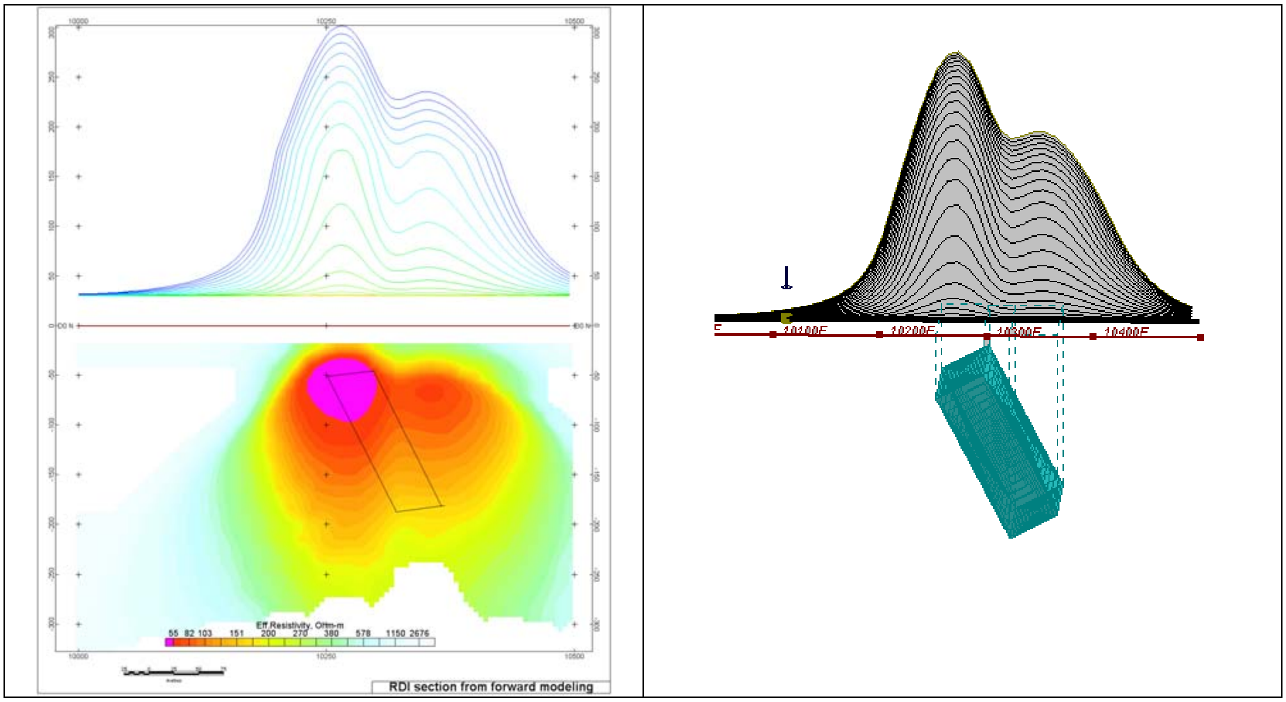


Figure F-7: Maxwell plate model and RDI from the calculated response for inclined thick (50m) plate. Depth extends 150 m, depth to the target 50 m.

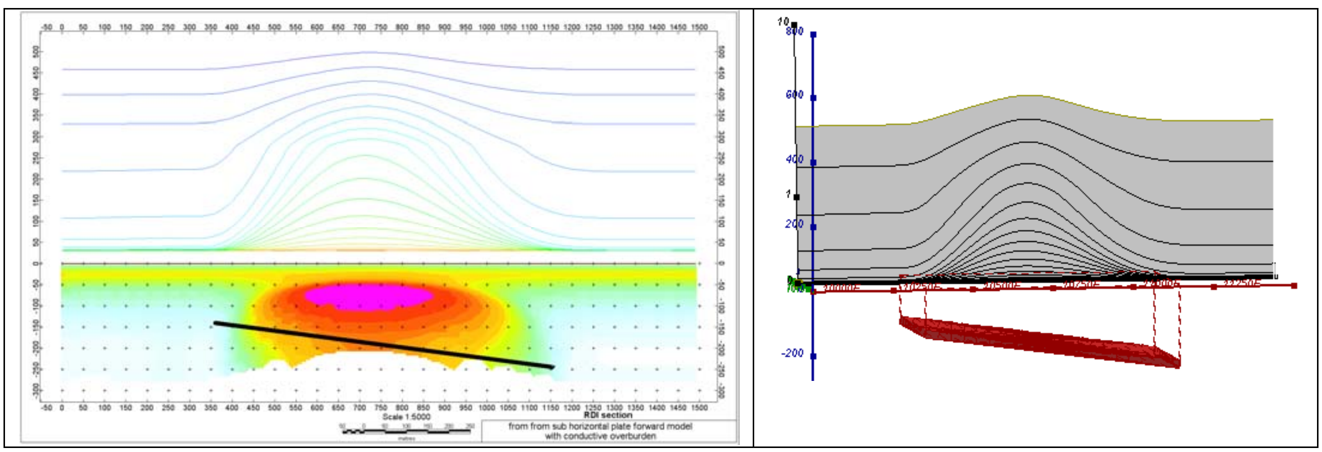


Figure F-8: Maxwell plate model and RDI from the calculated response for the long, wide and deep subhorizontal plate (depth 140 m, dim 25x500x800 m) with conductive overburden.

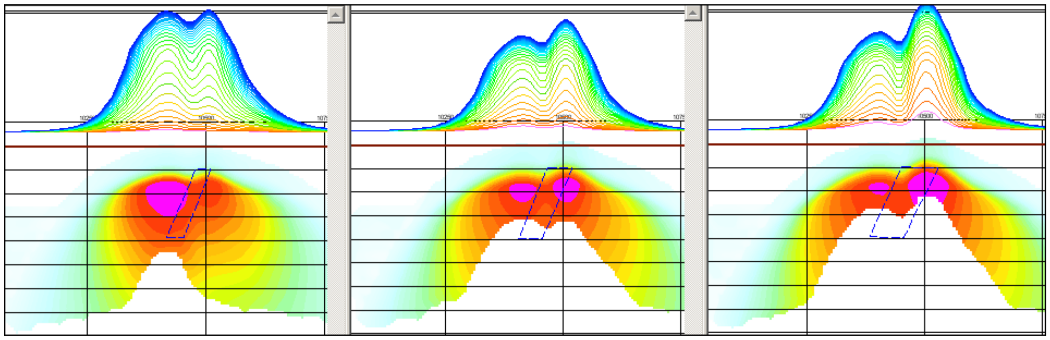


Figure F-9: Maxwell plate models and RDIs from the calculated response for "thick" dipping plates (35, 50, 75 m thickness), depth 50 m, conductivity 2.5 S/m.

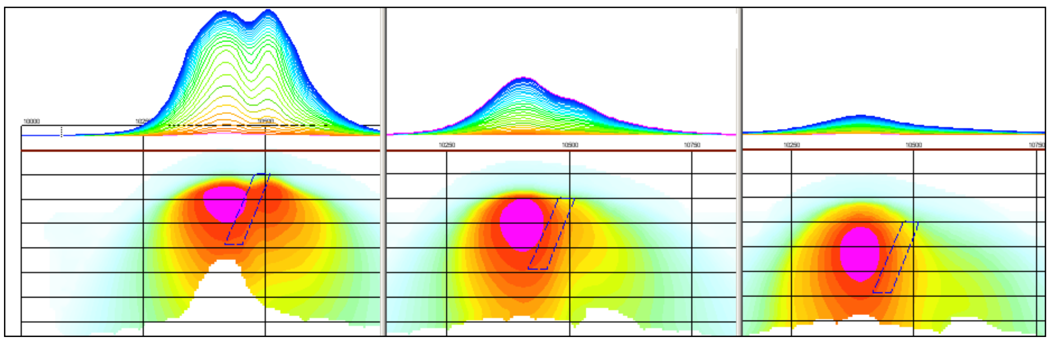


Figure F-10: Maxwell plate models and RDIs from the calculated response for "thick" (35 m thickness) dipping plate on different depth (50, 100, 150 m), conductivity 2.5 S/m.

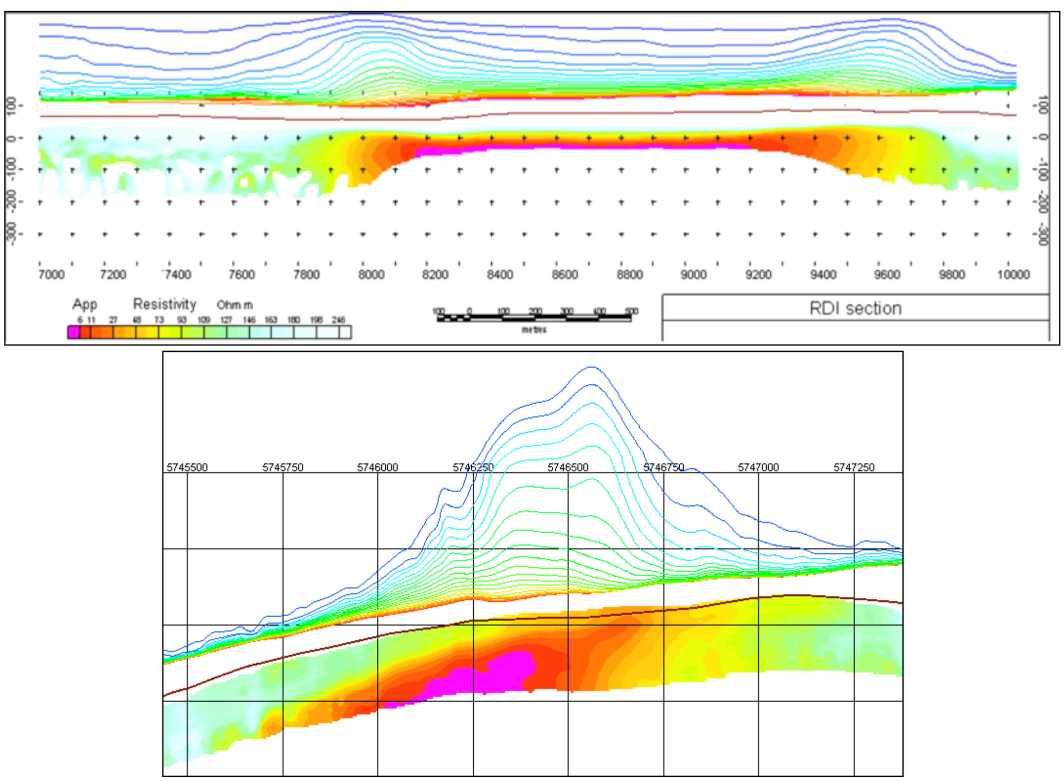
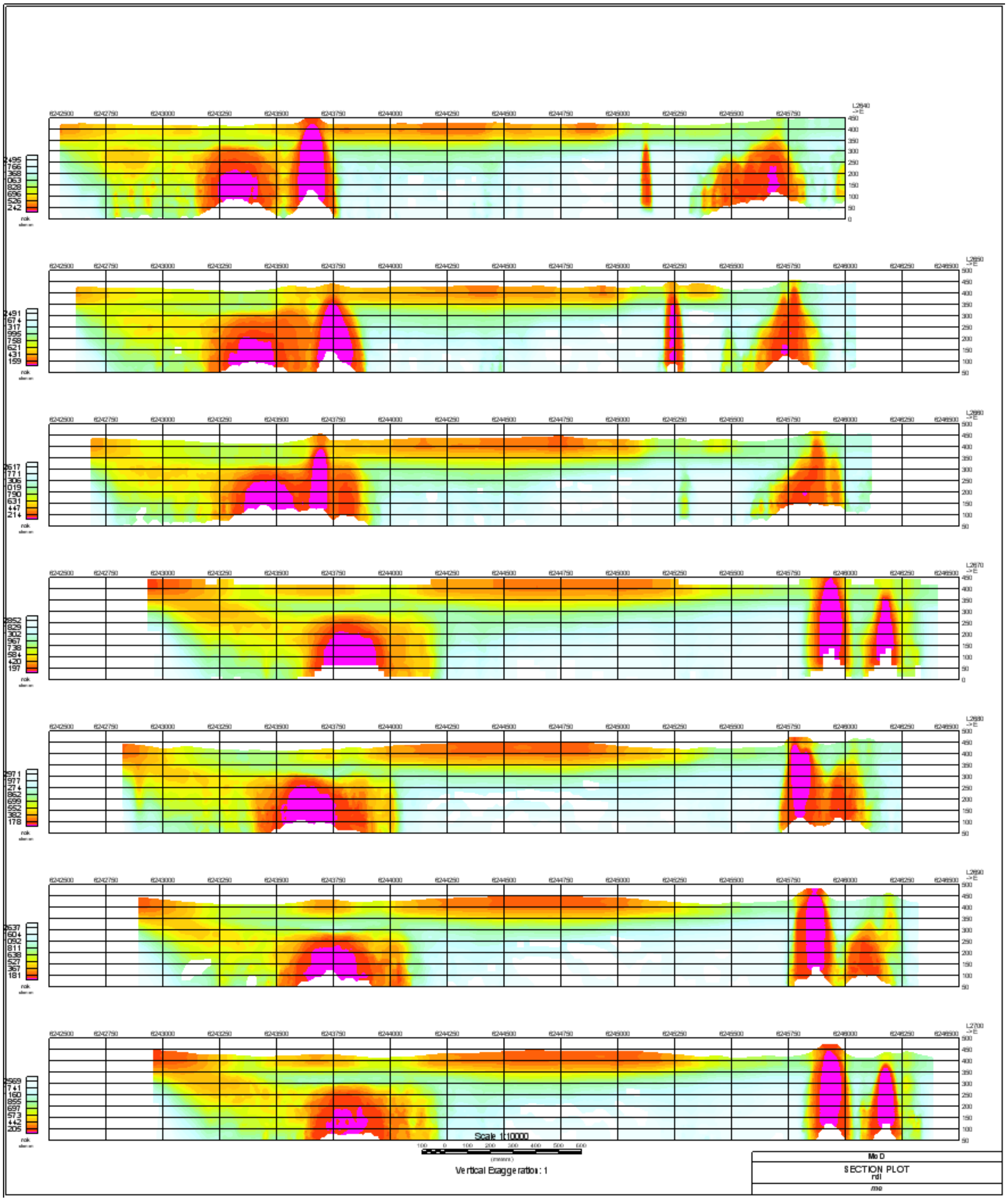


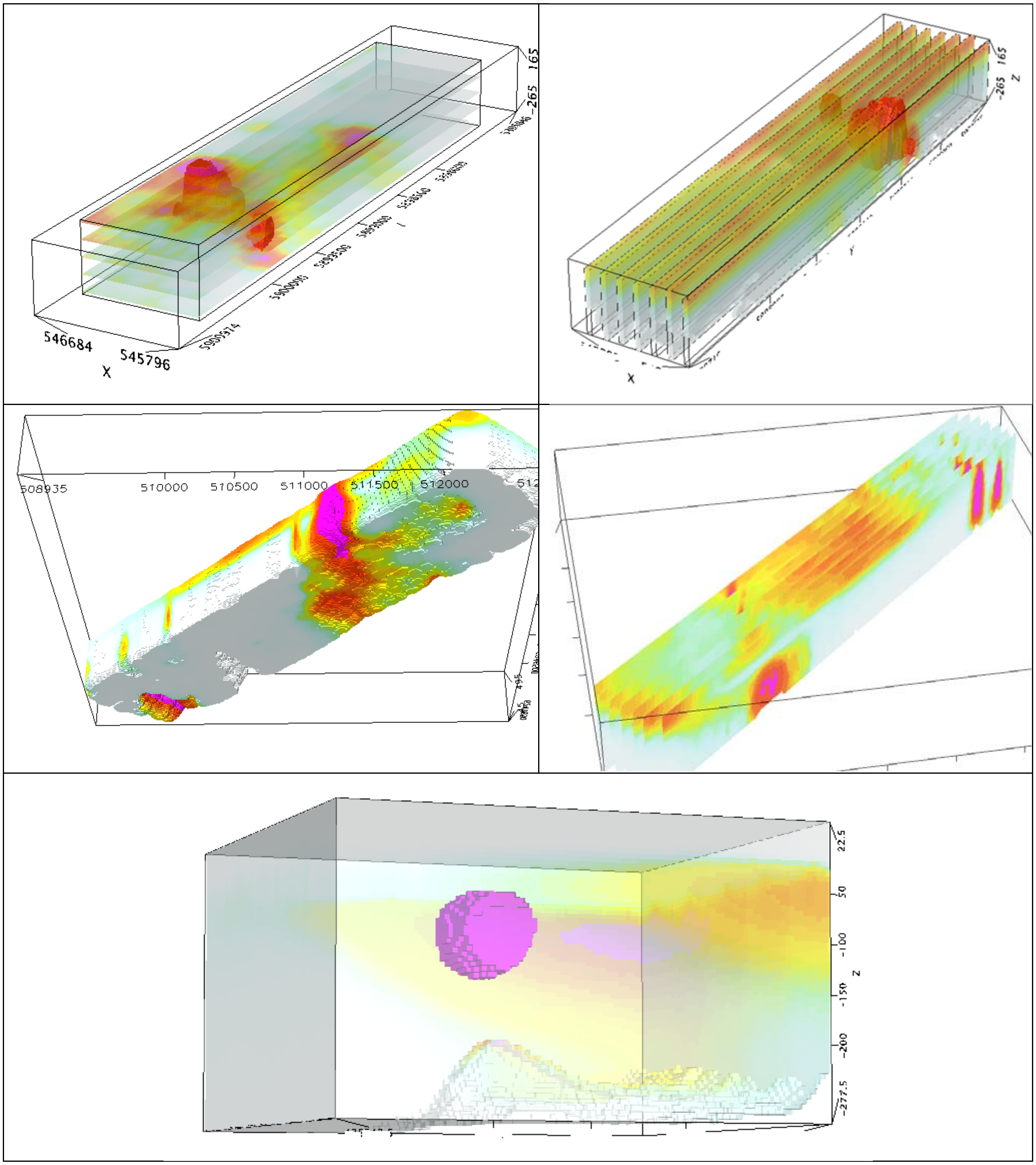
Figure F-11: RDI section for the real horizontal and slightly dipping conductive layers.

FORMS OF RDI PRESENTATION

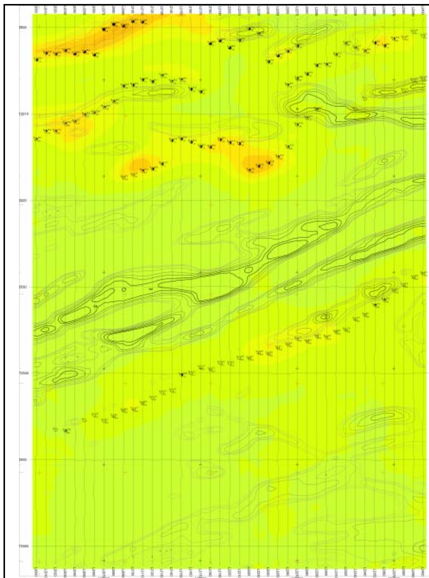
PRESENTATION OF SERIES OF LINES



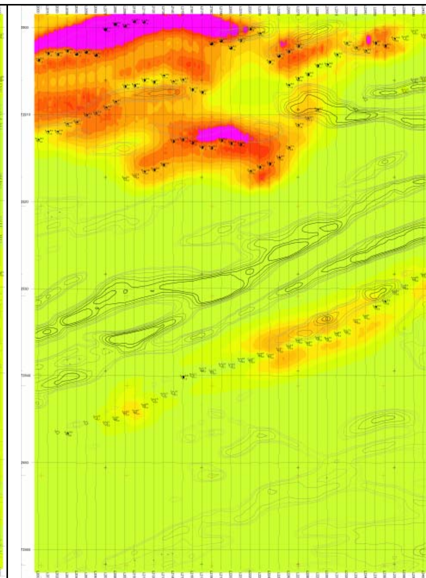
3D PRESENTATION OF RDIS



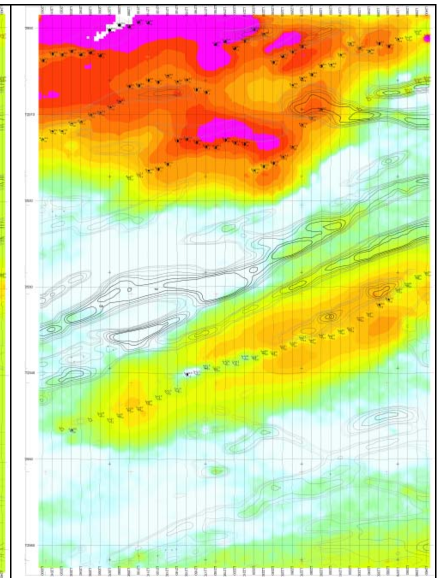
APPARENT RESISTIVITY DEPTH SLICESPLANS:



0 m (surface)

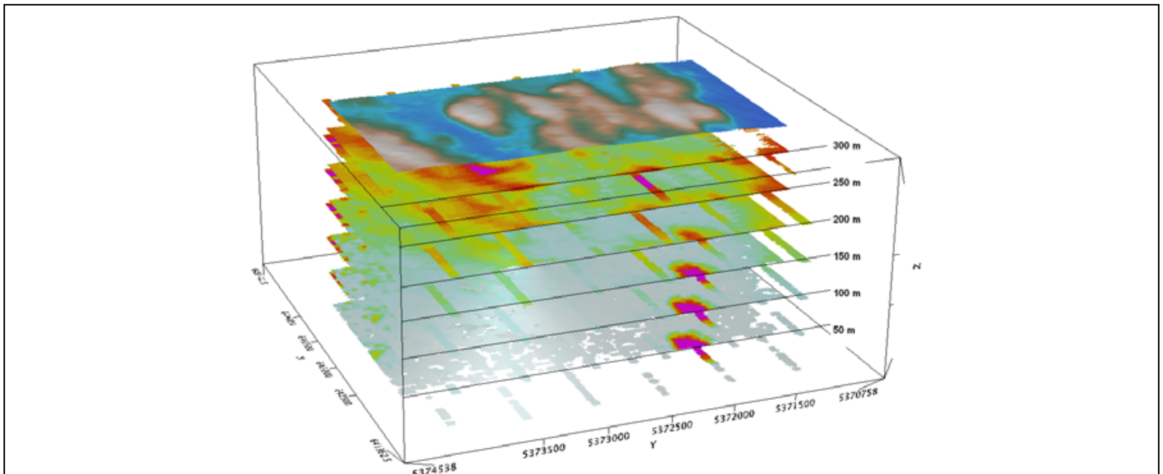


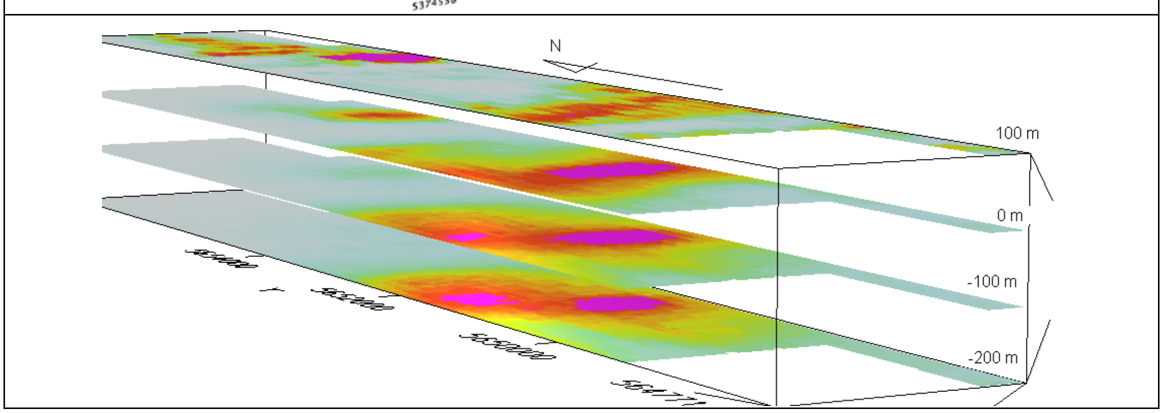
-100 m



-200 m

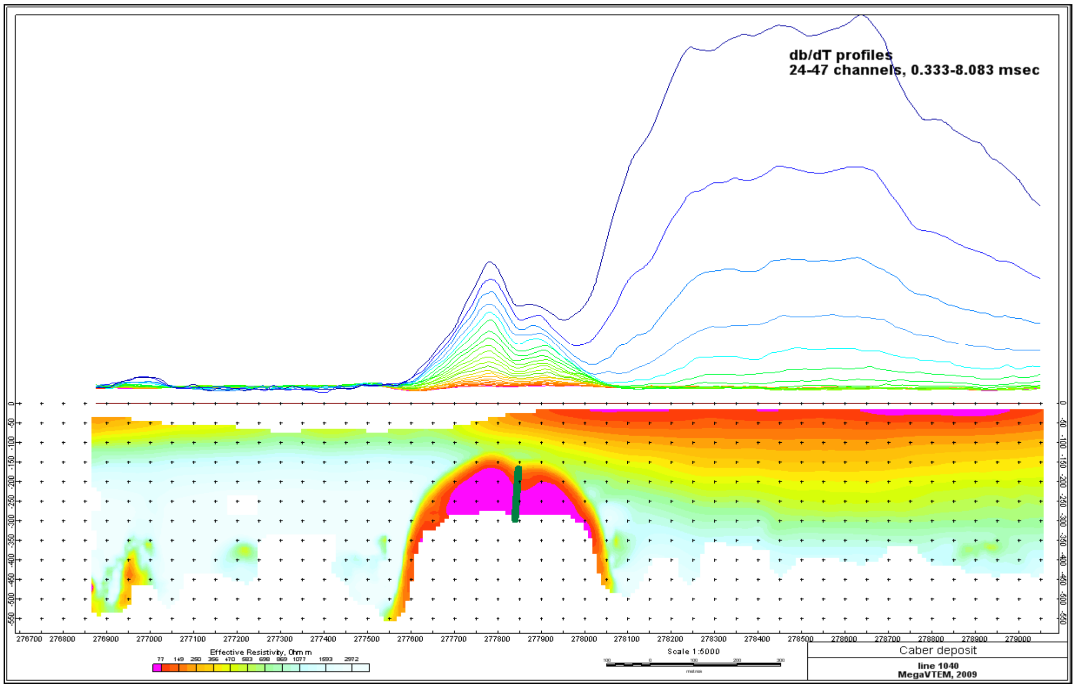
3D VIEWS OF APPARENT RESISTIVITY DEPTH SLICES:



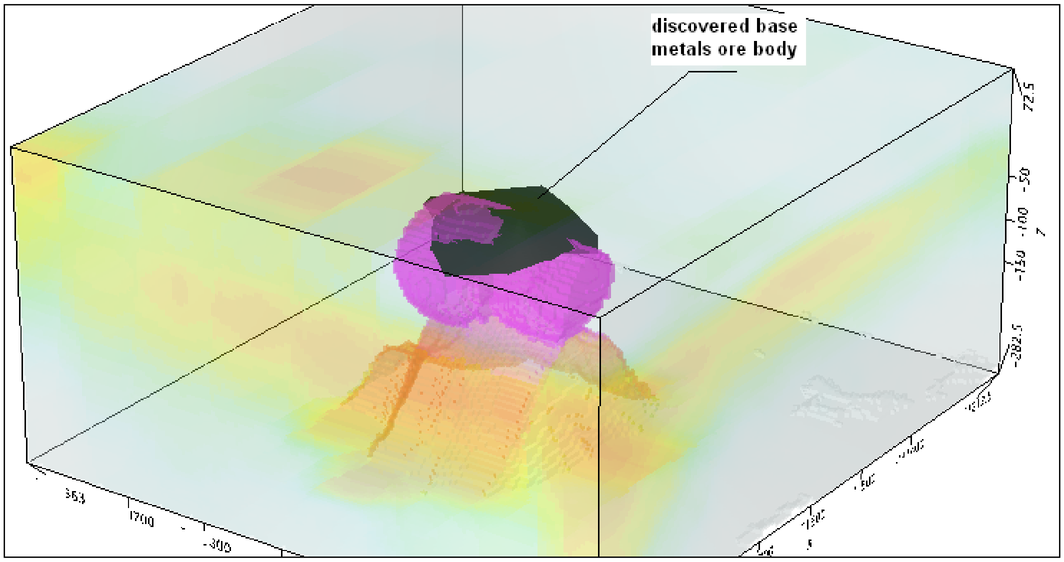


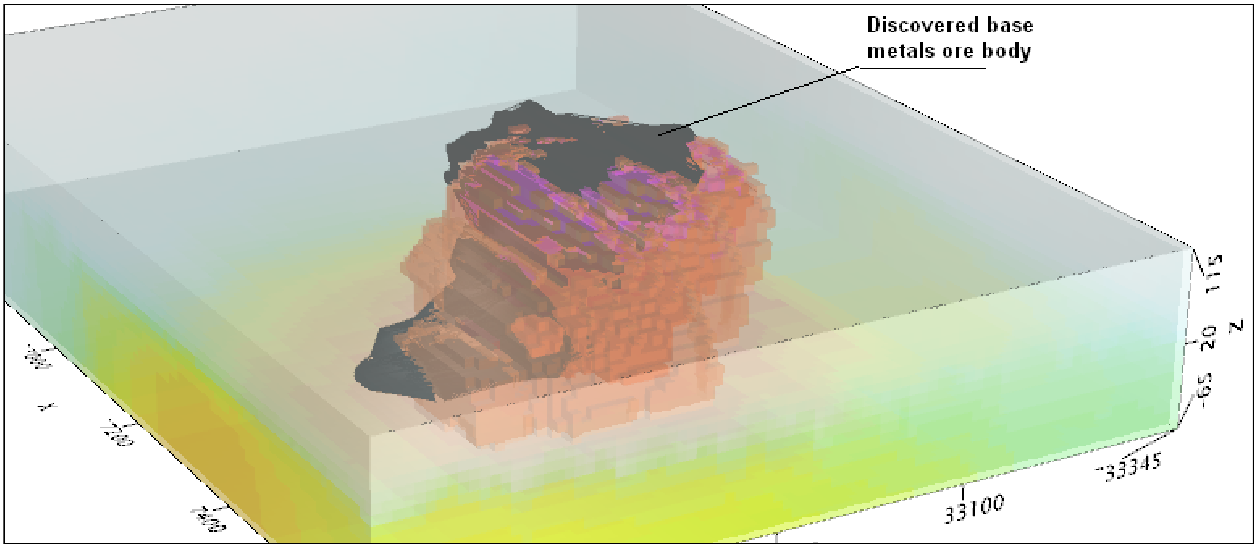
REAL BASE METAL TARGETS IN COMPARISON WITH RDIS:

RDI section of the line over Caber deposit ("thin" subvertical plate target and conductive overburden.



3D RDI VOXELS WITH BASE METALS ORE BODIES (MIDDLE EAST):





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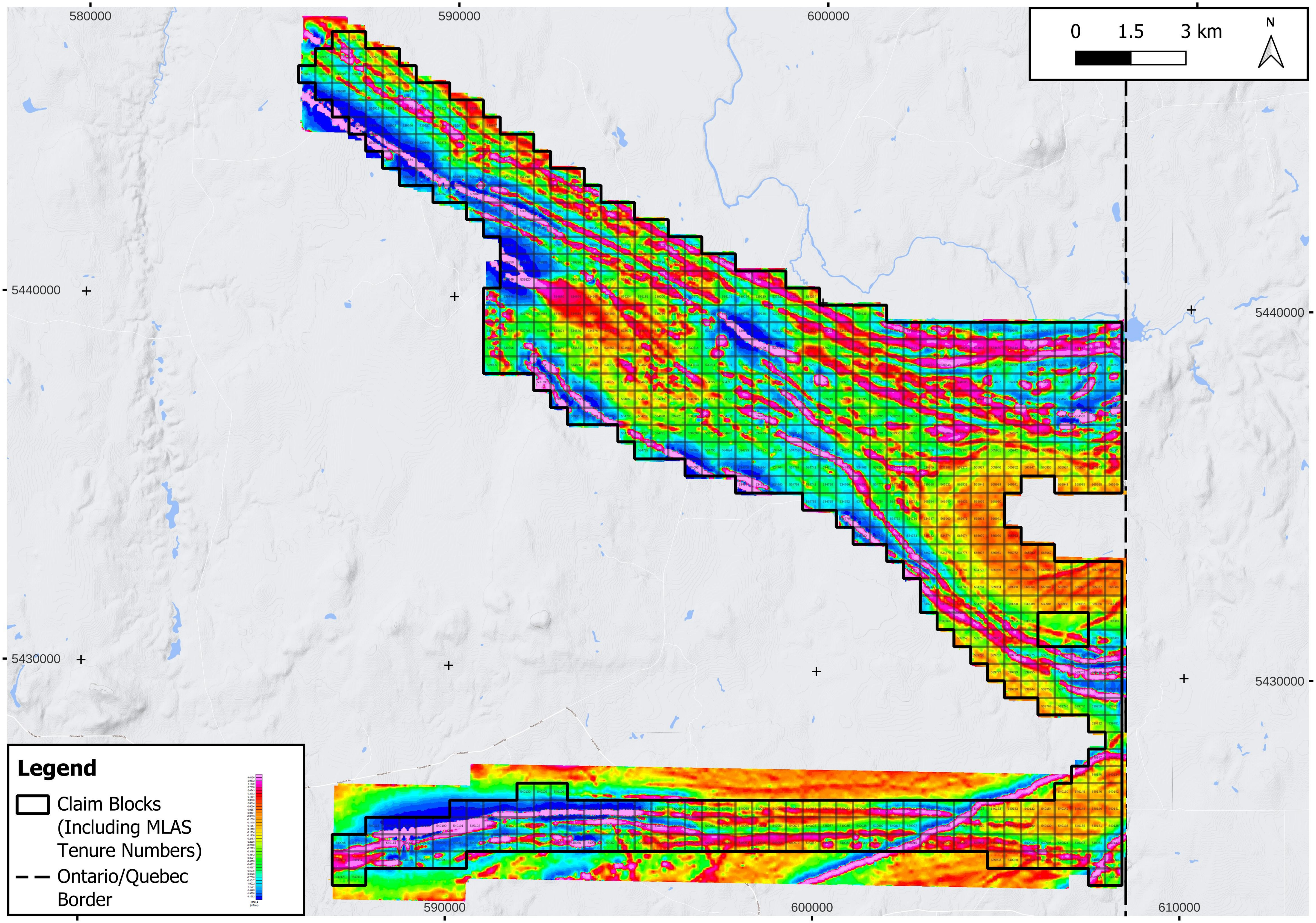
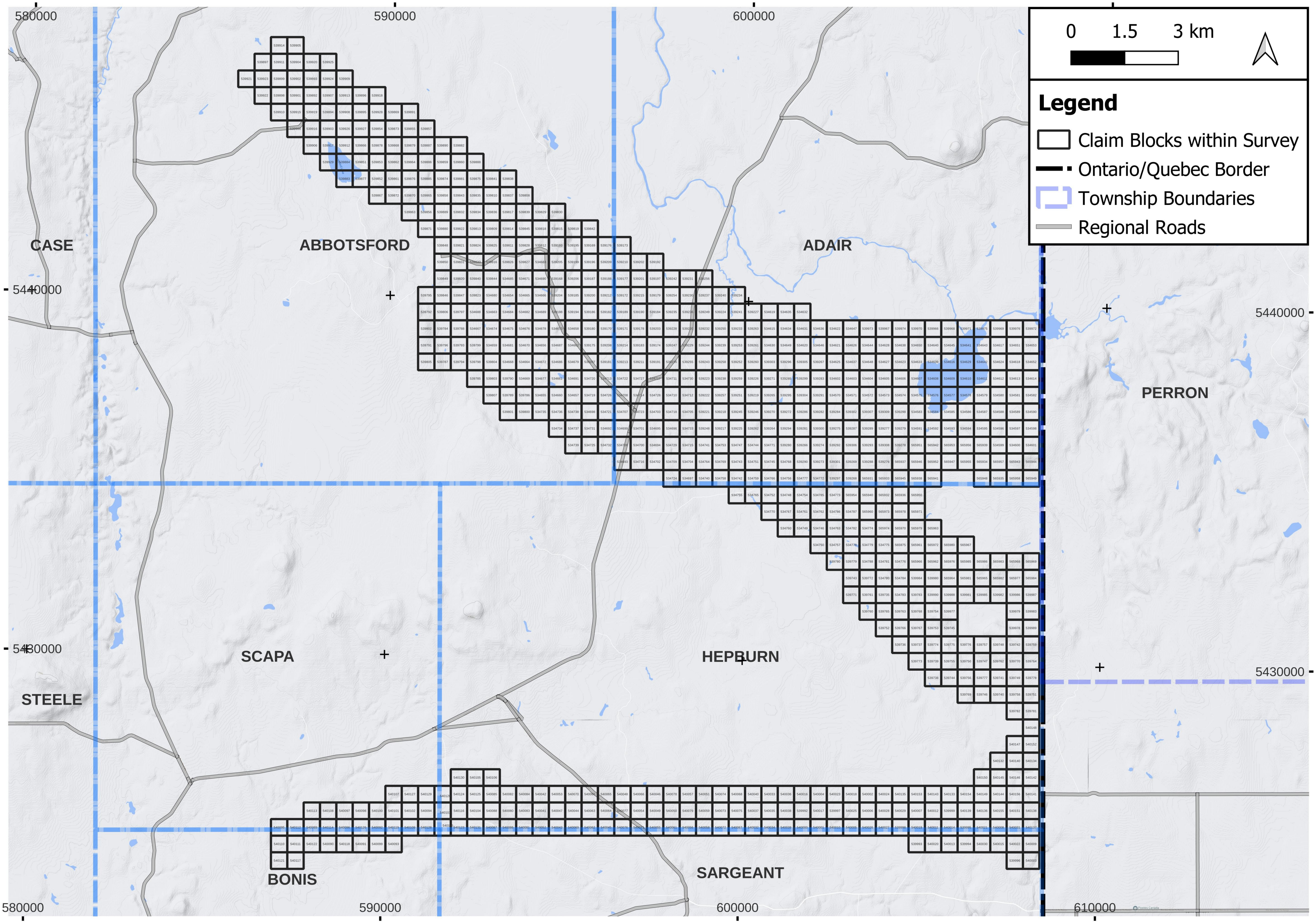

580000
590000
600000
0
1.5
3 km
N
5440000
5430000
5440000
5430000
Legend
Claim Blocks
(Including MLAS
Tenure Numbers)
Ontario/Quebec
Border
590000
600000
610000



0
1.5
3 km
Legend
Claim Blocks within Survey
Ontario/Quebec Border
Township Boundaries
Regional Roads
CASE
ABBOTSFORD
ADAIR
PERRON
SCAPA
STEELE
HEPBURN
BONIS
SARGEANT
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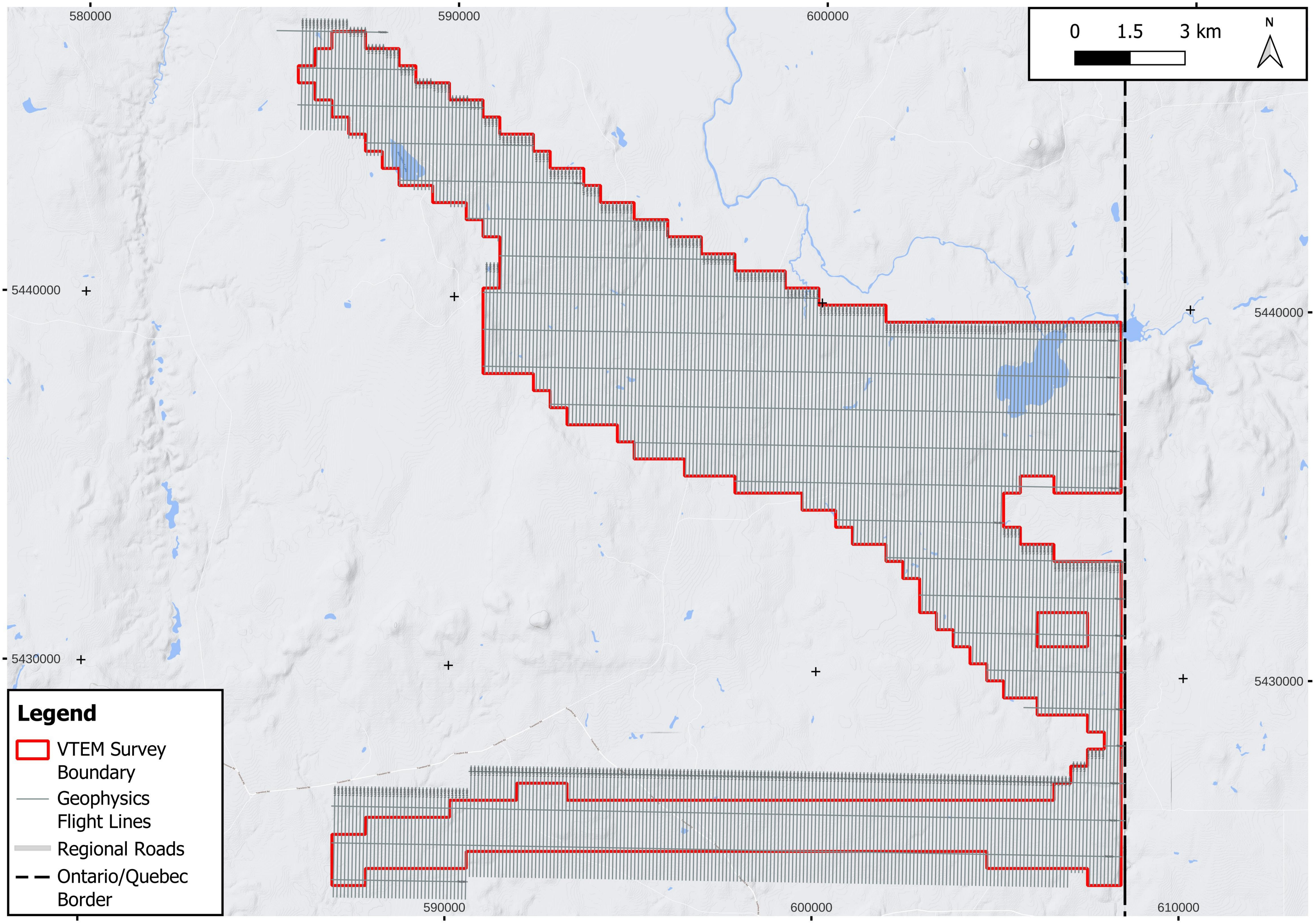
5430000



580000
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Legend
VTEM Survey Boundary
Geophysics Flight Lines
Regional Roads
Ontario/Quebec Border