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GOOD Mining Exploration Inc.
(“GMEI”)

2014 Exploration Season
Assessment Work Credit Technical Report
for the
Bow-Mac Project
(CanREE and Golden Target Prospects)

**Prospecting – Geophysics – Stripping – Diamond Drilling – Assays –
Line Cutting – Remote Camp Build – Mobilization/Demobilization**

- Exploration Permit # PR-14-10544
- McCann and Bowman Townships, Larder Lake, District of Cochrane

Claim Numbers: 4273175, 4273194, 4276170, 4276169, 4273036, 4272963,
4274040, 4273035, 4273034, 4277123, 4273033, 4277124



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Introduction:

This work report is being compiled under the Ministry of Northern Development and Mines (“MNDM”), requirements for mining claim assessment work credits. This work report documents the results of mining exploration activities undertaken on the mining claims listed in this report. The exploration activities included in this report and eligible for work credits are:

Prospecting – Geophysics – Stripping – Diamond Drilling – Assays – Line Cutting – Remote Camp Build – Mobilization and Demobilization

These activities took place between the dates of May 29th, 2014 and November 7th, 2014.

Property Description, Location and Access:

This GMEI land package is in North Eastern Ontario approximately 650 km north of Toronto and about 70 km east of Timmins on Hwy 101 and 18 km south of the town of Matheson and is located in Bowman and McCann townships, Larder Lake Mining Division, District of Cochrane. The CanREE Prospect is located in McCann Township and together with the Golden Target Prospect comprises a contiguous land package of 191 claim units (to date), collectively known as the Bow-Mac Project. Access to these properties is from Highway 11, and Watabeag Road, onto a series of seasonal dirt roads, unnamed log roads and trails into the properties.

*See Map 1: Map of Ontario – Property Location

*See Map 2: Regional Scale Claims Map

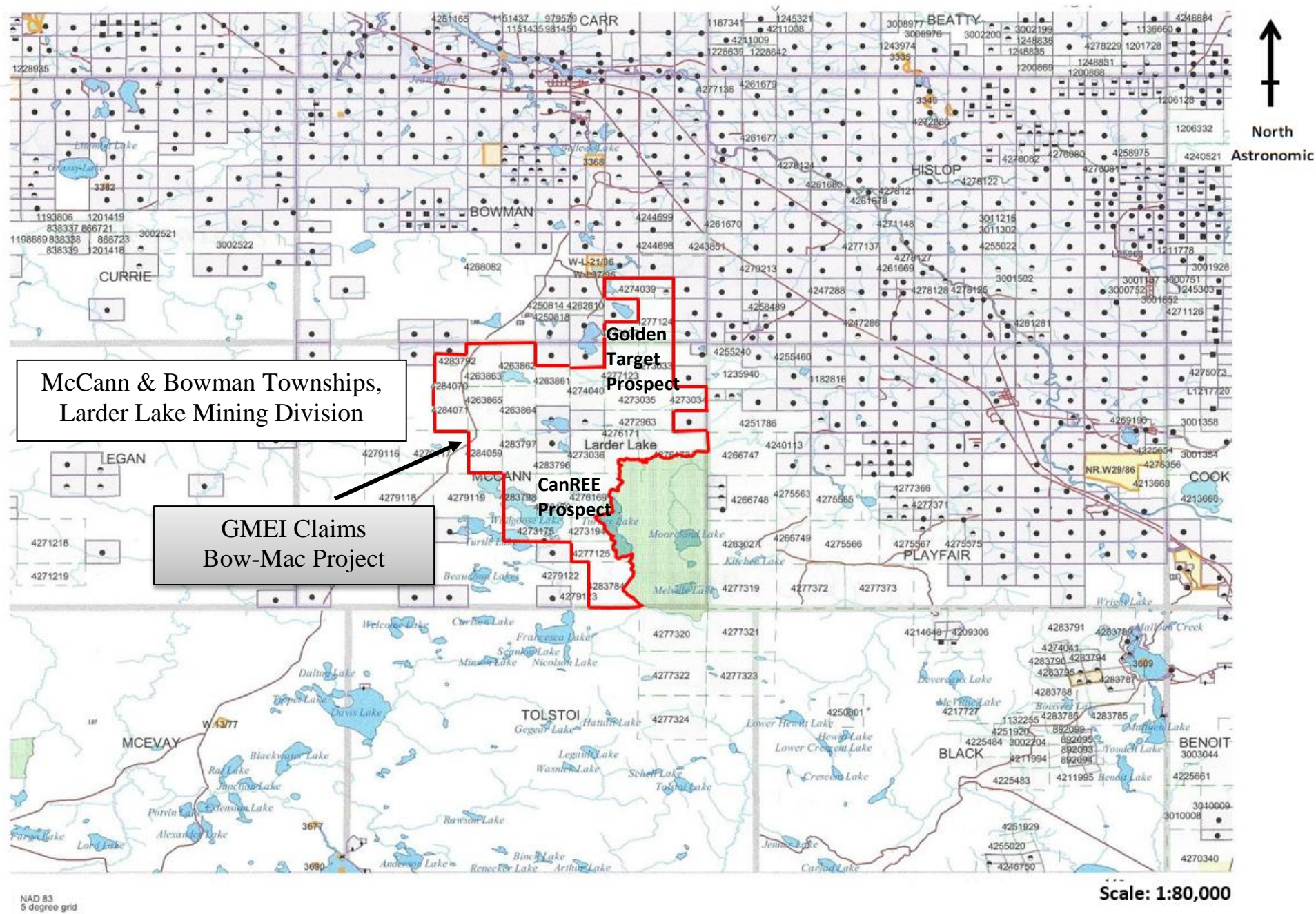
To access the CanREE Prospect, you would turn South on 4th Avenue off Hwy 11, in the town of Matheson, and travel 1.4 km. Then turn South on Watabeag Road and travel for 15.5 km. Then turn left (East) on Davis Lake Road, and travel for 9 km. Then turn left (North) on an unnamed log road and travel for 3.5 km, which leads into the CanREE mining exploration camp on claim number 4273175, and which is located at UTM Coordinate: Zone 17, 539477N, 5359789E.

To access the Golden Target Prospect, you would turn South on 4th Avenue off Hwy 11, in the town of Matheson, and travel 1.4 km. Then also turn South on Watabeag Road but only travel

4.5 km to the entrance of an unnamed road on the left marked #2438. Then travel on this unnamed road for about 3.5 km onto the Golden Target Project, claim number 4277124.

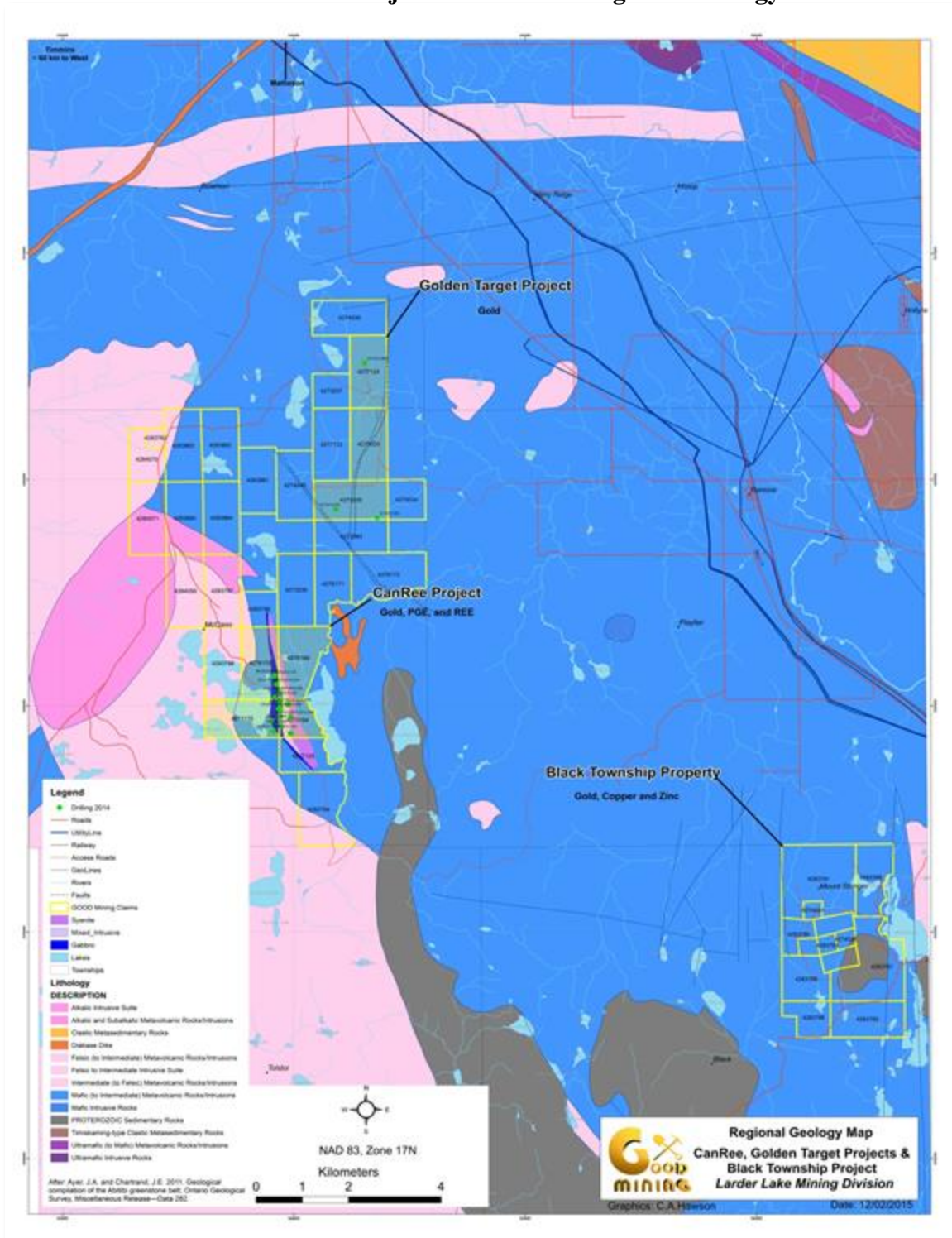


Map 1: Showing zoomed in property location with the red star symbol. The smaller box shows the location in reference to The Map of Ontario



Map 2: Regional scale map showing the location of GOOD Mining claims highlighted in red. Map also shows the location of Bow-Mac project (CanREE & Golden Target prospects)

The Bow-Mac Project: Location & Regional Geology



Map 3: Showing the location of CanREE and Golden Target Prospects within the contiguous Bow-Mac project land package. Also shows the regional geology.

The Unpatented Mining Claims in this report comprise 95 claim units on the contiguous land package and are located in McCann and Bowman Township:

Township /Area	Claim Number	Recording Date	Claim Due Date	Claim Units	Hectares	Acres	Work Required	Total Applied	Total Reserve	Claim Due Date
MCCANN	4273175	2012-Oct-12	2015-Oct-12	8	128	316.3	\$3,111	\$3,289	\$26,376	2015-Oct-12
MCCANN	4273194	2012-Dec-07	2015-Dec-07	4	64	158.1	\$1,536	\$1,664	\$27,476	2015-Dec-07
MCCANN	4276170	2013-Sep-04	2015-Sep-04	8	128	316.3	\$3,200	\$0	\$0	2015-Sep-04
MCCANN	4276169	2013-Sep-04	2015-Sep-04	8	128	316.3	\$3,200	\$0	\$0	2015-Sep-04
MCCANN	4273036	2013-Dec-09	2015-Dec-09	8	128	316.3	\$3,200	\$0	\$0	2015-Dec-09
MCCANN	4276171	2013-Dec-09	2015-Dec-09	7	112	276.8	\$2,800	\$0	\$0	2015-Dec-09
MCCANN	4272963	2013-Dec-09	2015-Dec-09	8	128	316.3	\$3,200	\$0	\$0	2015-Dec-09
MCCANN	4274040	2014-Apr-07	2016-Apr-07	8	128	316.3	\$3,200	\$0	\$0	2016-Apr-07
MCCANN	4273035	2014-Feb-24	2016-Feb-24	8	128	316.3	\$3,200	\$0	\$0	2016-Feb-24
MCCANN	4273034	2014-Feb-24	2016-Feb-24	4	64	158.1	\$1,600	\$0	\$0	2016-Feb-24
MCCANN	4277123	2014-Feb-20	2016-Feb-20	8	128	316.3	\$3,200	\$0	\$0	2016-Feb-20
MCCANN	4273033	2014-Feb-13	2016-Feb-13	8	128	316.3	\$3,200	\$0	\$0	2016-Feb-13
BOWMAN	4277124	2014-Feb-20	2016-Feb-20	8	128	316.3	\$3,200	\$0	\$0	2016-Feb-20
Total				95	1520	3,756.0	\$37,847.00	\$4,953.00	\$53,852.00	

Table 1: Showing the Mining Claims listed in this report in McCann and Bowman Township

Geology

*See Map 3: The Bow-Mac Project: Location & Regional Geology

*See Map 4 and 5: CanRee Local Geology

Regional Geology – The GMEI properties lie within the mafic (to intermediate) metavolcanic rocks and intrusions of the Bowman assemblage (Jackson and Fyon, (1991), now known as part of the Tisdale (2710-2704 Ma (Ayer, 2002)). The Tisdale includes a lithologically and structurally diverse sequence of deformed and metamorphosed volcanic and intrusive rocks.

The major host rock to the mineralization is a hornblende bearing gabbroic rock interpreted to be a dunitic differentiate is $2707 \pm 3\text{Ma}$ (Corfu et al 1989). This intrusion was interpreted to be genetically related to komatiitic flows (Bowman Assemblage) which overlie the felsic metavolcanic rocks of the Deloro assemblage (Pyke, 1982). In this context, the 2707 Ma would

represent the maximum age of the komatiitic flows. This genetic relationship between the dated gabbroic rock and the komatiitic flow is questioned (A.H. Green, Geologist, Falconbridge 1990). Refinement of the stratigraphic correlation in this part of the Abitibi belt allow for the correlation of felsic metavolcanic rock at the top of the Deloro assemblage.

To the north the contact between the Deloro assemblage and the Porcupine and Tisdale assemblages is a ductile shear zone which is part of the Destor Porcupine Deformation Zone. The regional nature of the southern contact with the Upper Tisdale is not well constrained. Where examined in detail, this contact is interpreted to be conformable and stratigraphic.

TISDALE (2710-2704 Ma)

This assemblage corresponds largely to that defined by Goodwin (1979). The basal part of this south-facing, steeply dipping assemblage consists of komatiitic flows which are overlain by units of tholeiitic basalt. Along the south flanks of the Shaw Dome structure, a moderate (40°-70°) dipping penetrative foliation is present (Pyke 1975). These ultramafic and basaltic flows are, in turn, overlain by 2703 Ma (Corfu et al 1989) felsic metavolcanic rocks exposed in Douglas, Currie and Bowman townships.

Along the southern flank of the Shaw dome, komatiitic flows at the base of the Tisdale appear to be interlayered with calc-alkalic felsic rocks and iron formation which occurs at the top of the Deloro assemblage. While this geometry may represent the structural interweaving of these rock units, the sulphide rich metasedimentary rocks appear to have been assimilated by the komatiitic metavolcanic flows during their effusion (Green 1978). This suggests that the sulphide facies iron formation was in place along the paleo sea floor. It is assumed therefore that the contact between the Tisdale and Deloro assemblages at least in this area is conformable. To the east and west, the Tisdale is in fault contact with the Timiskaming and Porcupine.

Local Stratigraphy

Several lithological assemblages have been determined and dated in the Ontario part of the Abitibi greenstone belt. In the CanREE area three assemblages are represented. They are the Deloro, Tisdale, and Lower Blake River assemblages.

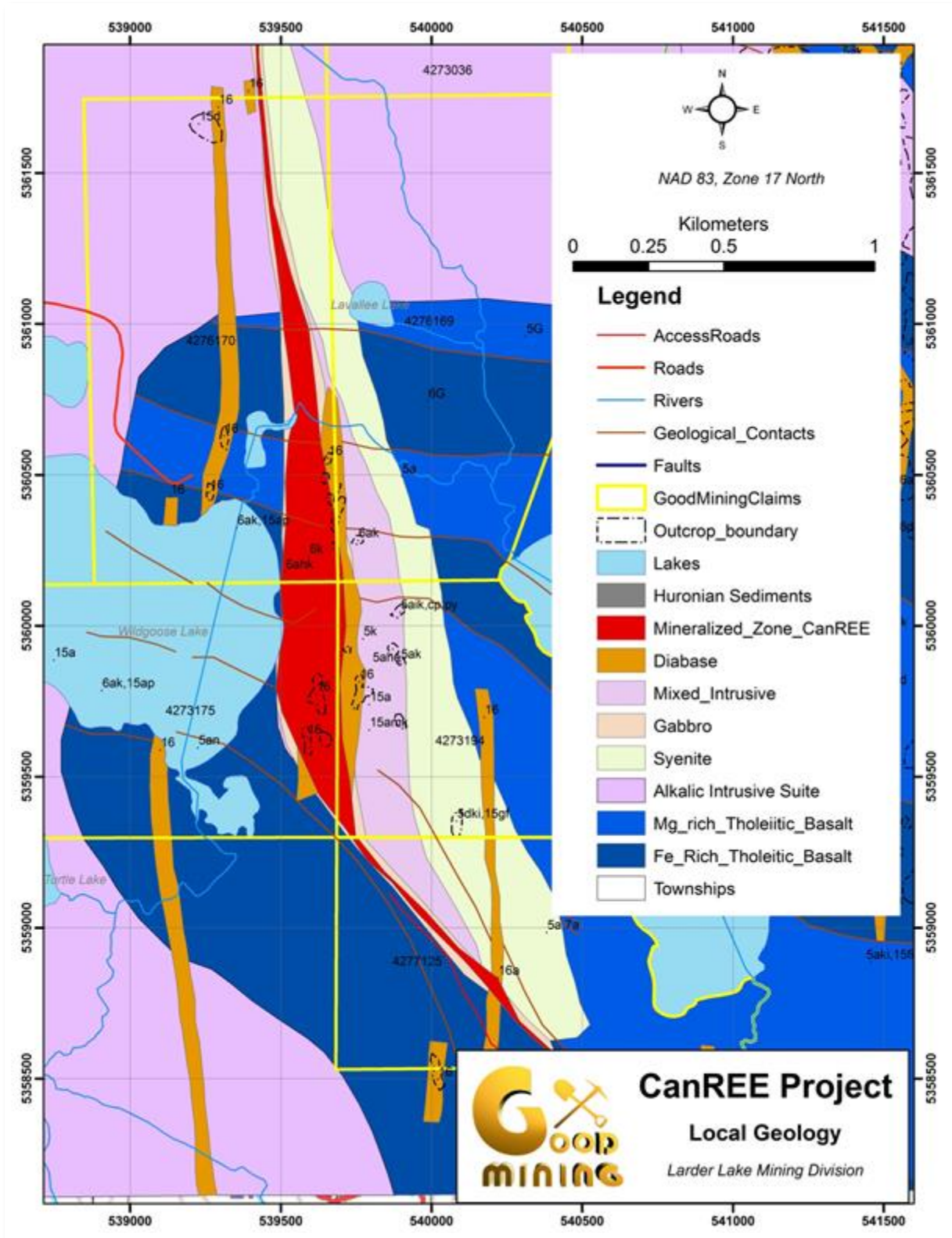
The oldest assemblage in the area is the Deloro Assemblage. This 2730 - 2724 Ma assemblage primarily composed of calc-alkaline volcanic rocks. Field relations indicate that a gabbroic intrusion was intruded into the Deloro Assemblage at about 2707 Ma. The gabbroic intrusion is related to a later komatiitic mafic-ultramafic intrusion found in both the lower and upper Tisdale. The youngest unit in the Deloro is a sulphide rich iron formation. The contact between the Deloro and Tisdale is interpreted to be conformable due to the thickness of the iron formation and the length of time required to deposit chemical precipitates (Thurston et al., 2008). The age of the Tisdale ranges from 2710 Ma to 2704 Ma. The Upper Tisdale has an age of formation no earlier than the gabbroic intrusion in the Deloro assemblage at about 2707 Ma. The basal part of the Upper Tisdale overlies the felsic metavolcanic rocks of the Deloro assemblage and is overlain by tholeiitic basalt. The upper boundary of Upper Tisdale is unknown in the area but, the contact between the Upper Tisdale the Lower Blake River is interpreted to be conformable. The Lower Blake River assemblage (previously Kinojevis assemblage) ranges in age from 2704 Ma to 2701 Ma. Tholeiitic mafic and felsic volcanic rocks are the primary composition of this assemblage, plus some turbiditic sedimentary rocks.

Local Geology – The GMEI, McCann-Bowman properties are relatively unexplored. There is an abandoned gold mine, the Campbell-Moore Occurrence on the Golden Target Property. During the dates of the work in this report, the Golden Target Prospect is comprised of claim numbers 4277124, 4273033 and 4273035, and is open to expansion in all directions. The geology consists of underlying ultramafic and mafic flows of the Keewatin subgroup truncated by syenite intrusions. The area is within the Archean rocks of the Abitibi Greenstone Belt. This is partially overlain by sedimentary rocks of the Timiskaming group with young post mineralization diabase dikes. The property itself lies within the Upper Tisdale which is described separately in the stratigraphy section. There is a fault running through the properties from north to south and a second one crossing northwest to southeast these are splays off the Black River Fault which in turn is a splay off the Destor-Porcupine Deformation Zone (DPDZ).

Local Geology – CanREE Prospect

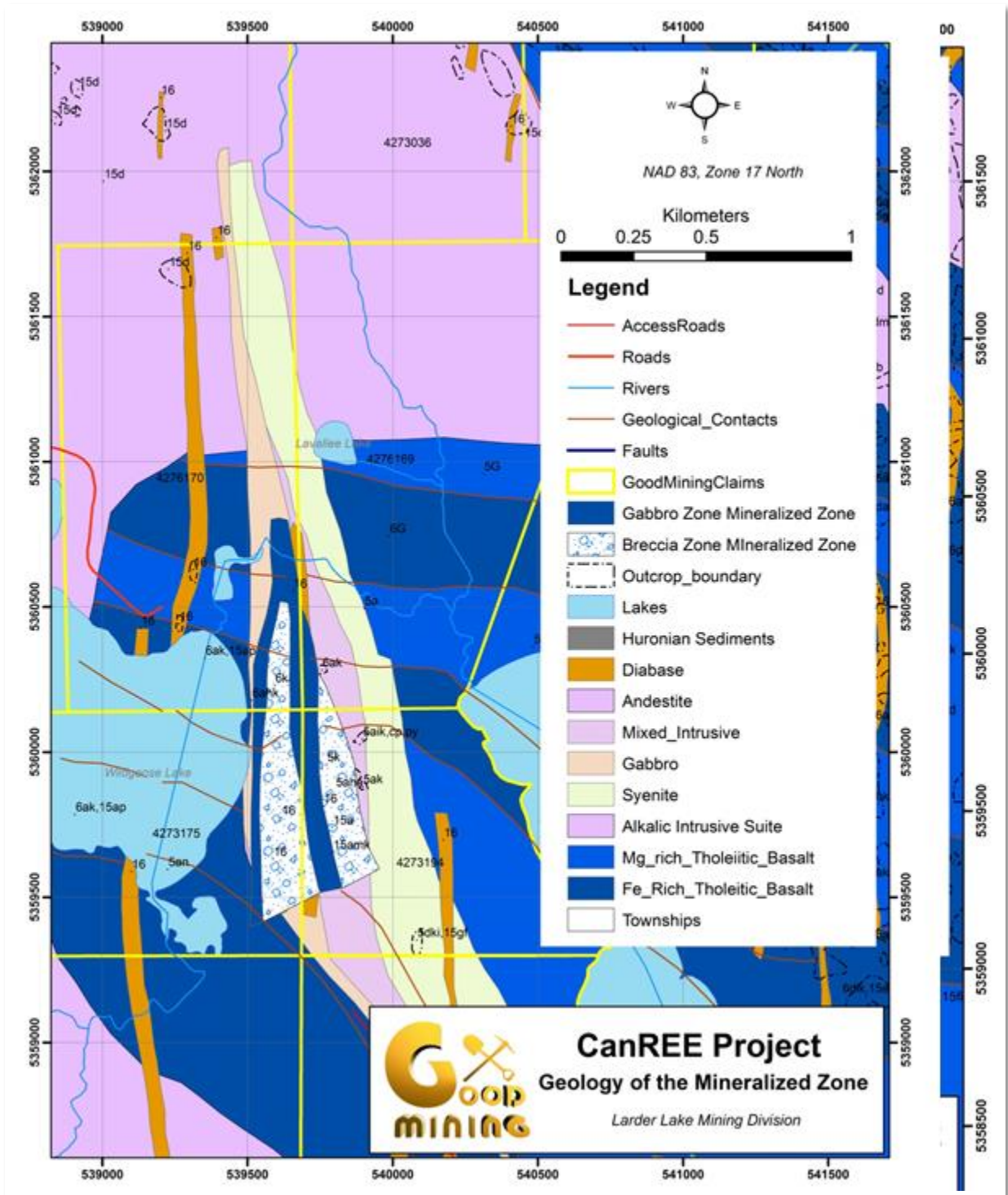
During the dates of the work of the work in this report, the CanREE Prospect is comprised of claim numbers 4273175, 4273194, 4276169 and 4276170, and is open to expansion to the North, South and West. The geology of the CanREE Property comprises mafic volcanic rocks intruded by syenite dykes and gabbro. The north-south trending gabbro is a single intrusive body on the southern portion of claim 4273175 but bifurcates when it approaches the claim boundary of 4273175. One part of gabbro intrusive occurs in the west and the other part of gabbro intrusive occurs in the east of the north-south claim boundary. The mafic volcanic rocks and syenite packages are sandwiched by the two parts of the north-south trending gabbro intrusive from the east and west. The mafic volcanic rocks appear to be brecciated in-situ while the syenite appears as a breccia zone (syenite with mafic volcanic inclusions). It is presumed that the brecciation and mineralization is related to structure. It appears that the mineralization in this area is structurally controlled. The current dimensions of the potential mineralized area hosted in the gabbro, mafic volcanic rocks and breccia zone is 1400 m north-south by 200 m east-west but the confines of the mineralization have not been defined and the area is open in all directions.

CanREE Local Geology



Map 4: Location and local geology of the CanREE Prospect

The CanREE Local Geology



Map 5: Location and local geology of the CanREE Prospect

Local Geology – Golden Target Prospect

This prospect occurs in proximity to the Golden Arrow Fault Zone, (“GAFZ”) of Victoria Gold Mines, located 2 km east of the Golden Target claim area. The GAFZ is a strongly altered lithological package comprising mostly tuffaceous, argillic, mafic volcanic flows and syenite intrusive rocks, and is host of the Golden Arrow Gold Deposit located 2 km east. Three holes were drilled in this area specifically inside claim numbers 4273035 and 4277124 of the Golden Target Prospect. The area tested by drill holes GT01; GT02 and GT03 are characterized by a strong dominance of extrusive mafic volcanic tholeiitic units’, part of the Upper Tisdale. The facies encountered vary widely but are dominated by massive, pillowed and brecciated flows presenting local variolitic, amygdalar and hyaloclastic textures.

The northern section inside claim number 4277124 was stratigraphy tested by drill hole GT03 (316.60 m, 1039 ft.). This is characterized by the presence of a thick mafic flow of apparent basaltic composition. As suggested by flow top breccia and by pillow rim shapes, the local stratigraphic top is facing north to NNE. The dominant alteration is characterized by a typical pervasive chloritization associated to variable fracture, vein controlled and pervasive epidotization and hematization. Veins were counted individually throughout the drill core. Locally the mafic sequence is affected by strong ankerite and pyrite mineralization of tens of meters in size, often injected by many quartz-ankerite veins. Most of these strongly altered mineralized zones present meshwork and stockworks of quartz carbonate. These zones are interpreted to be possible splay of the local deformation zones related to the Golden Arrow fault zone and some could be the hydrothermal fluid piping, feeding volcanogenic massive sulphide (VMS) type deposits potentially located on top of the local mafic volcanic package. The magnetism level of the cores drilled in this area varies from weak to moderate which seems to explain most of local magnetic features observed.

For the southern section inside claim number 4273035 lithology and mineralization is tested by drill hole GT01, which drilled 230.49 meters (756 ft.). This drill hole was designed to intercept the two VLF anomalies in the area. Shear zones were observed in the drill core confirming the presence of the two VLF targets. One shear zone showed a high conductivity value during the electrical probe test. Drill hole GT02 is a test hole, also inside claim number 4273035, which is 1

km (aerial distance) west of drill hole GT01, which was planned to drill through two quartz veins observed 50 meters north of the spotted drill site. Two VLF anomalies were also detected south of the quartz veins, which were also targeted by drill hole GT2014-02. Unfortunately, the drill hole had to be abandoned after 17.5 meters (57 ft.) because of seasonal time constraints. Channel Sampling was conducted on the surface outcrop stripped by the excavator near the drill hole GT-2014-2. A total of 17 channel samples were collected, documented, sampled and analyzed.

Previous Work:

Previous work reports related to the McCann and Bowman Township area can be viewed by visiting the MNDM website at: <http://www.geologyontario.mndm.gov.on.ca/>

There has been limited and sporadic exploration carried out on this claim block over the past 70 years:

1946: Golden Goose Mines: Electromagnetic, geological and magnetic surveys.

1981-1982: Norman D. Stevens: Assays.

1996: Teddy Bear Valley Mines: Magnetometer survey.

2010-2011: Nebu Resources: Induced Polarization and Resistivity Survey.

Work Summary:

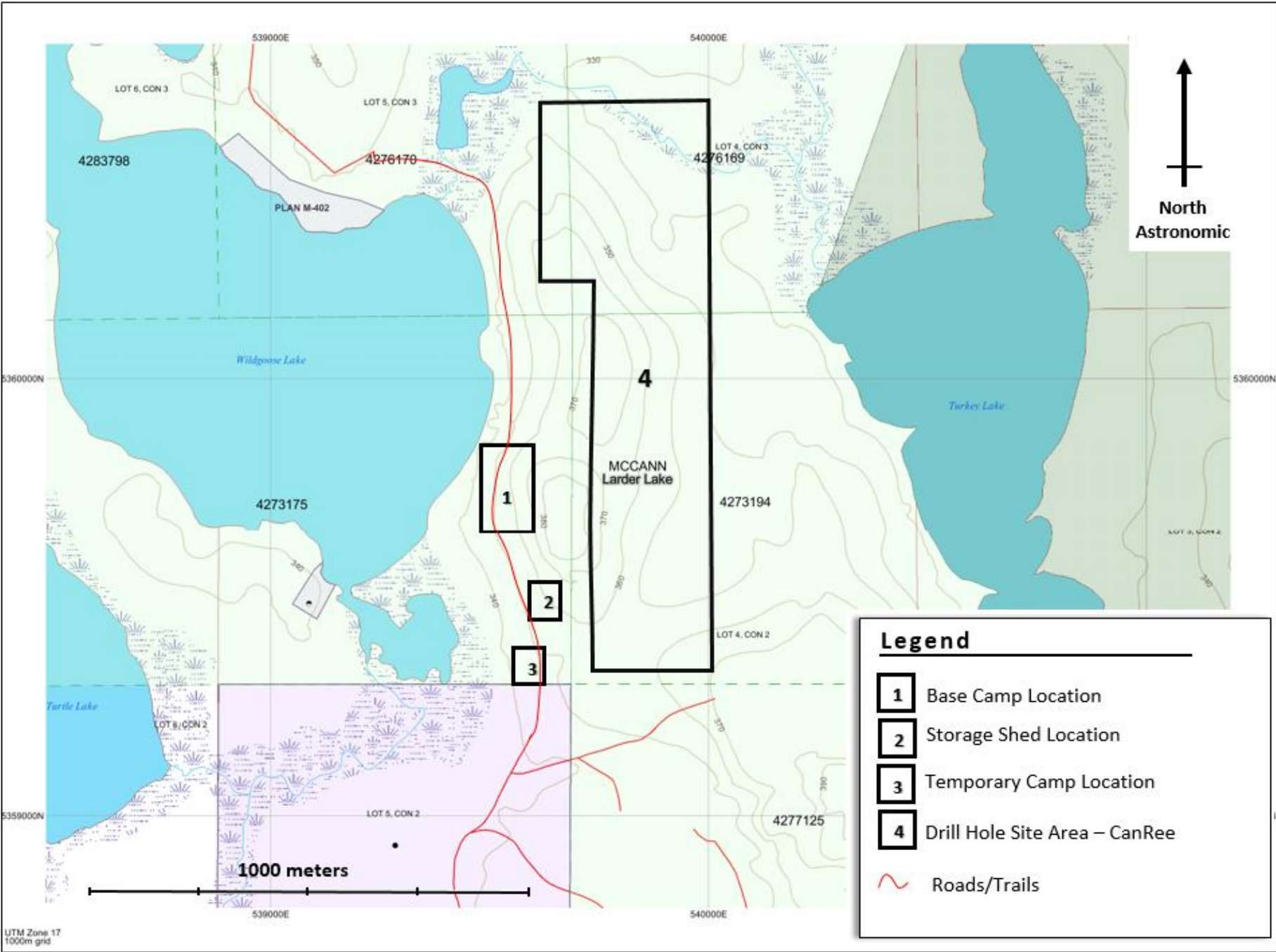
The work carried out by GMEI and its contractors during the 2014 exploration season, was primarily to determine the extent of the mineralized occurrence within the CanREE prospect, through prospecting, geophysics, sampling and a diamond core drill program. This exploration program was focused on drilling to locate Rare Earth Elements, specifically Scandium, that were present from the 2013 chip sampling program. Anomalous Gold and Platinum Group Elements were also being explored.

Secondly, a few preliminary drill holes were to be drilled within the Golden Target Prospect in search of Gold mineralization thought to be from a splay of the Golden Arrow Fault, after spotting the drill holes using VLF surveys overlain onto an existing IP survey conducted by the previous claim holder, Nebu Resources. The IP and VLF Surveys were interpreted using new VLF processing and modelling software provided on contract by Shaun Parent of Superior Exploration Ltd., Sault Ste. Marie, Ontario. (Information and data regarding the Nebu Resources IP Survey was obtained through the publicly accessible assessment work credit files of the MNM at: <http://www.geologyontario.mndm.gov.on.ca/>).

Finally, all of the remaining contiguous GMEI claims were to be prospected, grid sampled and mapped, with chip sampling and subsequent certified analysis performed on prospective rock outcrops. More claim properties were also staked and registered with the MNM in 2014.

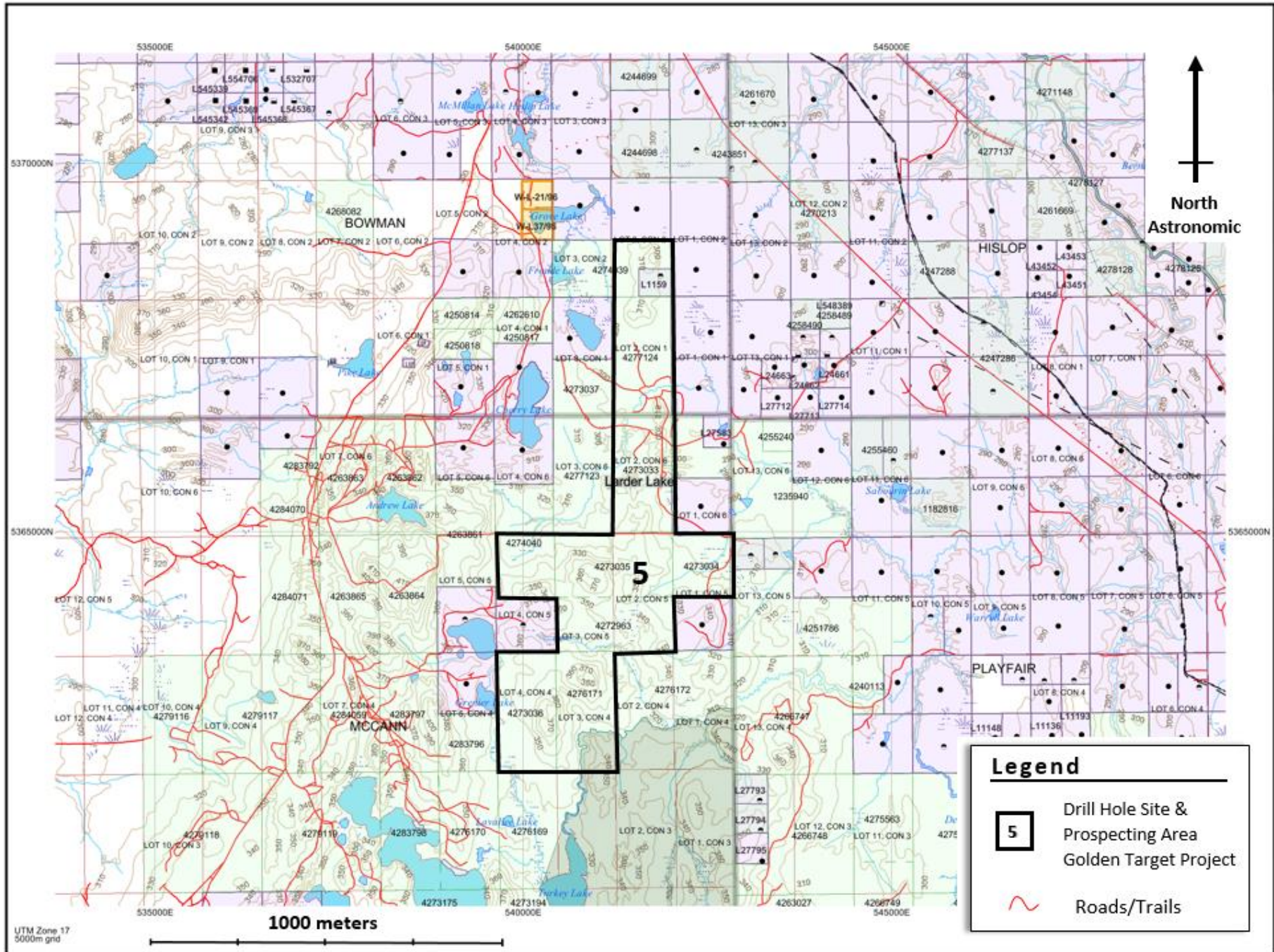
**** Refer to Maps (6 and 7) for the work area locations within the two projects in 2014, also Appendix A explains what type of work was done in each area daily.**

Work Area Location Map – CanRee Project



Map 6: Work area location map within the CanREE Prospect in 2014

Work Area Location Map – Golden Target Project



Map 7: Work area location map within the Golden Target Prospect in 2014

Workers and Contractors that were involved with the projects:

WORKER/CONTRACTOR	CODE	POSITION
<i>Frank Dusome</i>	FD	President & CEO, Supervisor, Heavy Equipment Operator, Line Cutter, Maintenance, Builder, Staker, Prospector and Labourer, GMEI
<i>Nicky Dusome</i>	ND	Remote Camp Cook and General Assistant, GMEI
<i>Dennis Patron</i>	DP	Profession Geologist, GMEI
<i>Ce Shi</i>	CS	Geologist, GMEI
<i>Athraa Koma</i>	AK	Geologist, GMEI
<i>James Nopper</i>	JN	Geologist, GMEI
<i>John TED Lang</i>	JL	Geophysics Consultant, Staker and Labourer, GMEI
<i>Shawn Brunelle</i>	SB	Operations Assistant, Remote Camp Manager and Cook, GMEI
<i>Suzanne Eliadis</i>	SE	Remote Camp Cook and General Assistant, GMEI
<i>Daine Dusome</i>	DD	Labourer, GMEI
<i>Eric Baumer</i>	EB	Labourer and Field Assistant, GMEI
<i>Chris Gervais</i>	CG	Field Guide and Labourer, GMEI
<i>Randy Baumer</i>	RB	Labourer, Camp Cook, GMEI
<i>Shawn Childs</i>	SC	Labourer, GMEI
<i>Dave Gelinis</i>	DG	Labourer, Line Cutter, GMEI
<i>Nicole G.</i>	NG	Labourer and Cook, GMEI
<i>Dave Roberge</i>	DR	Labourer, Line Cutter, GMEI
<i>Frank Racicot</i>	FR	Professional Geologist, Racicot Geological Consulting
<i>Dan Larsen</i>	DL	Core Cutter, Larsen Exploration Services
<i>Shaun Parent</i>	SP	Geophysics Interpretation, Superior Exploration Ltd.
<i>Jamie Birch</i>	JB	Line Cutter and Arborist, J-Birch Tree Service
<i>Spencer Beesly</i>	SBE	Line Cutter, J-Birch Tree Service
<i>Bob Lindsay</i>	BL	Excavator Contractor, Loughheed RJ Cartage
<i>Mack Evans</i>	M	Excavator Operator, Private Contractor
<i>Hawkin Hwang</i>	HH	Student Geologist, Volunteer Program, GMEI
<i>Kira Fuller</i>	KF	Student Geologist, Volunteer Program, GMEI
<i>William Gregorash</i>	WG	Student Geologist, Volunteer Program, GMEI
<i>Bilal El Kassem</i>	BEK	Student Geologist, Volunteer Program, GMEI

Table 2: Showing the workers, their code and position at GMEI in 2014

Drilling Contractors:

- 1) Walker Drilling Owner: Dave Walker
 Address: 8866 CR56, Utopia, Ontario, L0M 1T0
 Phone: 705-725-4536

- 2) DBW Drilling Owner: Doug Baumber
 Address: 192 Toryork Drive, North York, Ontario, M9L 1X6
 Phone: 416-738-0337

Note: Total number of drillers and driller helpers working daily, on one to two drill rigs, sometimes on 24hr shifts, numbered between 2 and 15 men depending on the circumstances.

NAME	CODE	POSITION
<i>Pierre</i>	P	Driller
<i>Justin</i>	J	Driller's Helper
<i>Gord</i>	G	Driller's Helper
<i>Callum</i>	C	Driller's Helper
<i>Ryan</i>	R	Driller
<i>Daryn</i>	D	Driller
<i>Brad</i>	BR	Driller's Helper
<i>Bill</i>	BI	Driller's Helper
<i>Bryan</i>	BRY	Driller's Helper
<i>Nathan</i>	N	Driller
<i>Nico</i>	NI	Driller
<i>Stacey</i>	S	Driller's Helper
<i>Mark</i>	MA	Driller's Helper
<i>Brent</i>	BRE	Driller's Helper
<i>Brian</i>	BRI	Driller's Helper
<i>Rob</i>	RO	Driller Mechanic
<i>Brian</i>	BN	Driller Mechanic

Table 3: Names and codes of the drillers and their helpers that worked at GMEI in 2014.

Prospecting:

Prospecting work performed on each mining claim listed in this report was comprised of the following activities:

- Transportation of geologists and other personnel to and from the claims being prospected by pick-up truck and/or All-Terrain Vehicles
- Walking and flagging grid lines at 100 meters apart, with the use of GPS devices
- Viewing and noting the terrain and topography, and searching for rock outcrops along the grid lines
- Taking chip samples of rock outcrops
- Sending chip samples to the lab for certified analysis

*See **Appendix A** for a detailed description of the work performed on each claim

*See **Table 2** which describes the codes used for each worker and their position at GMEI

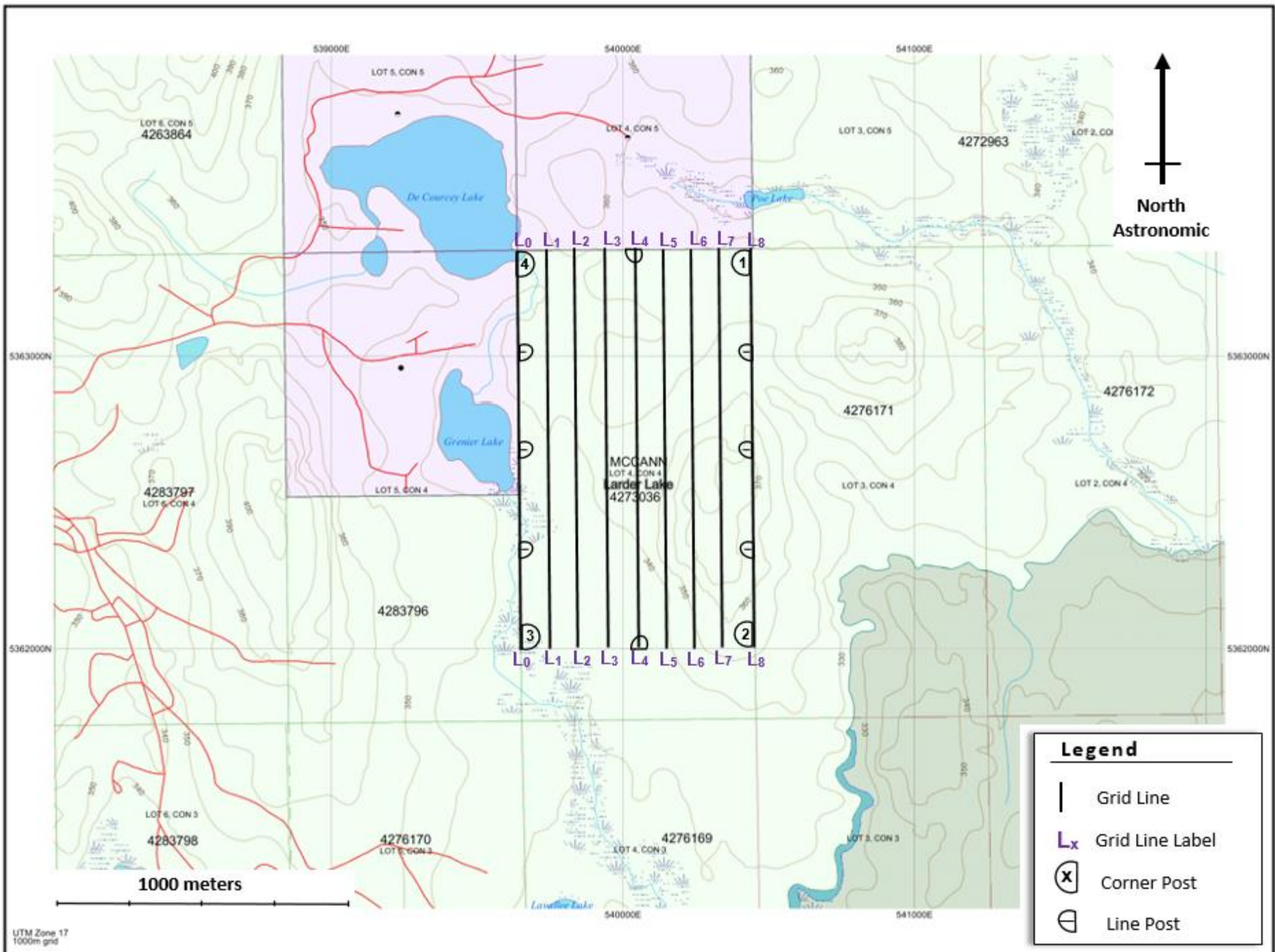
*See **Maps (8 to 15)** which show grid lines and chip sample locations patches in each claim

*See **Table 4** which contains location of chip samples taken from each claim

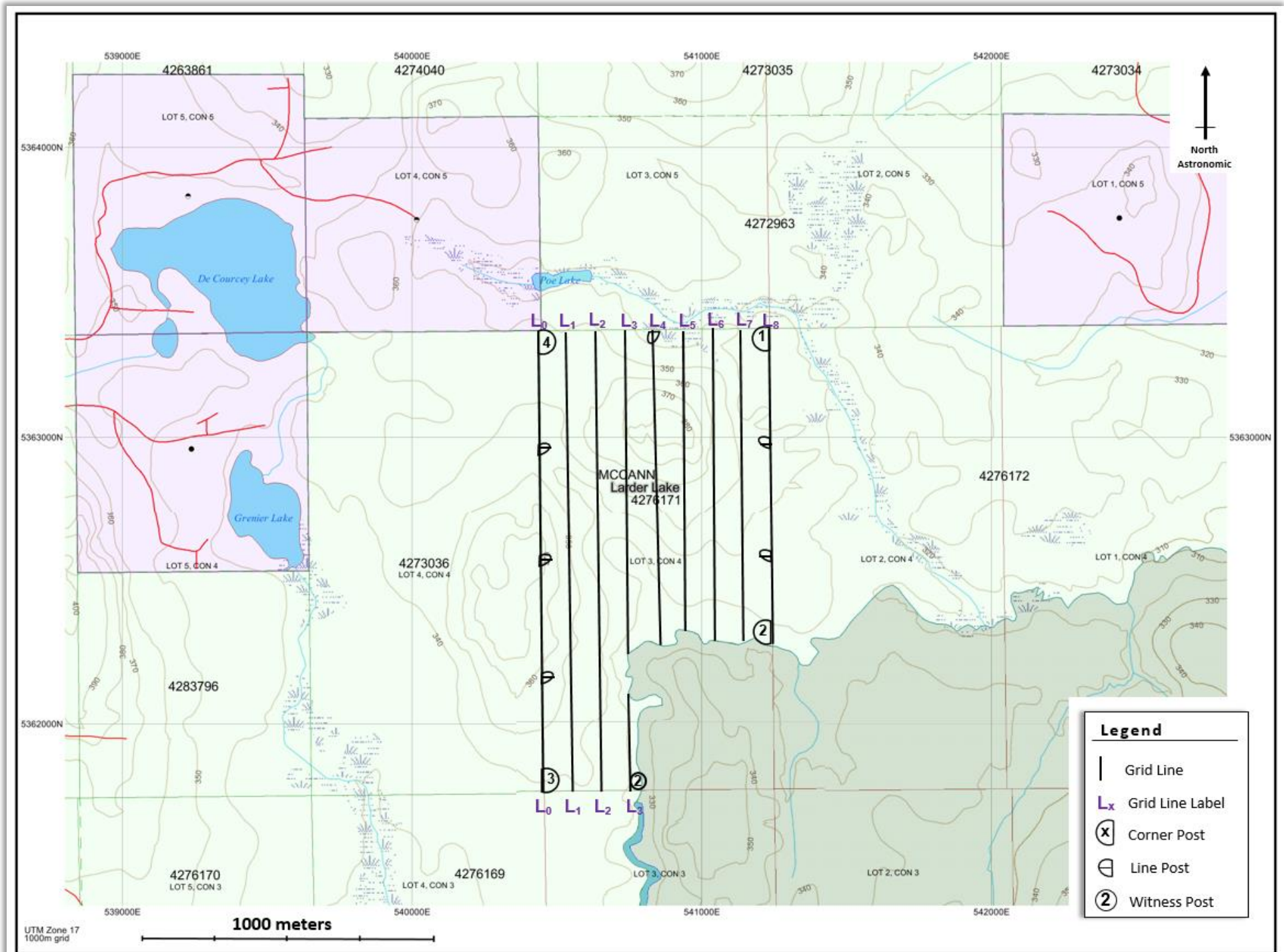
Chip Samples

Claim - 4273035			Claim - 4273034			Claim - 4277123			Claim - 4273033			Claim - 4277124			
# of Samples	Sample Number	Grid line Number/ location patches	# of Samples	Sample Number	Grid line Number/ location patches	# of Samples	Sample Number	Grid line Number/ location patches	# of Samples	Sample Number	Grid line Number/ location patches	Number of Samples	Sample Number	Grid line Number/ Location Patches	
1	32151	L1	1	32805	L1	1	30213	A	1	30210	L8	1	32193	A	
2	32152	L1	2	32806	L2	Total Samples: 1			2	30211	L8	2	32194		
3	32153	L1	3	32807	L4	Total Samples: 4	3	30212	L8	3	30212	L8	3		32195
4	32154	L1	4	32808	L6		4	30214	L1	4	30214	L1	4		32196
5	32155	L2					5	30215	L2	5	30215	L2	5		32197
6	32156	L2					6	30216	L2	6	30216	L2	6	32810	
7	32157	L2					7	30217	L2	7	30217	L2	7	40965	
8	32158	L3				8	30218	L1	8	30218	L1	8	40966	B	
9	32159	L3				9	30219	L2	9	30219	L2	9	40967		
10	32160	L3				10	30220	L2	10	30220	L2	10	40968		
11	32161	L4				11	30221	L2	11	30221	L2	11	40977		
12	32162	L4				12	30222	L2	12	30222	L2	12	40960		
13	32163	L5				13	30223	L2	13	30223	L2	13	40961	C	
14	32164	L5				14	30224	L2	14	30224	L2	14	40962		
15	32165	L5				15	30225	L2	15	30225	L2	15	40969		
16	32167	L16				16	30226	L3	16	30226	L3	16	40970	D	
17	32168	L7				17	30227	L3	17	30227	L3	17	40971		
18	32169	L6				18	30228	L3	18	30228	L3	18	40972		
19	32170	L6				19	30229	L3	19	30229	L3	19	40973		
20	32171	L7				20	30230	L3	20	30230	L3	20	40974		
21	32172	L9				21	30231	L3	21	30231	L3	21	40975		
22	32173	L8				22	30232	L3	22	30232	L3	22	40976		
23	32174	L8				23	30234	L3	Total Samples: 22						
24	32175	L8				24	30235	L3							
25	32176	L9				25	30236	L3							
26	32177	L9				26	30237	L3							
27	32178	L9				27	30238	L3							
28	32179	L10				28	30239	L4							
29	32180	L10				29	30240	L4							
30	32181	L10				30	30241	L4							
31	32182	L11				31	30242	L4							
32	32183	L11				32	30243	L4							
33	32184	L12				33	30244	L4							
34	32185	L12				34	30245	L5							
35	32186	L12				35	30246	L6							
36	32187	L13				36	30247	L6							
37	32188	L14				37	30248	L7							
38	32189	L14				38	30249	L7							
39	32192	L5				39	30250	L7							
40	32198	L15				40	32166	L4							
41	32199	L15				41	32190	L4							
42	32200	L15				42	32191	L4							
43	32801	L5				43	40958	L1							
44	32802	L5				44	40959	L1							
45	32803	L5				45	40981	L8							
46	32804	L5				Total Samples: 45									
47	32809	L15													
48	32811	L3													
49	40963	L5													
50	40964	L5													
51	40978	L7													
52	40979	L5													
53	40980	L7													
Total Samples: 53															

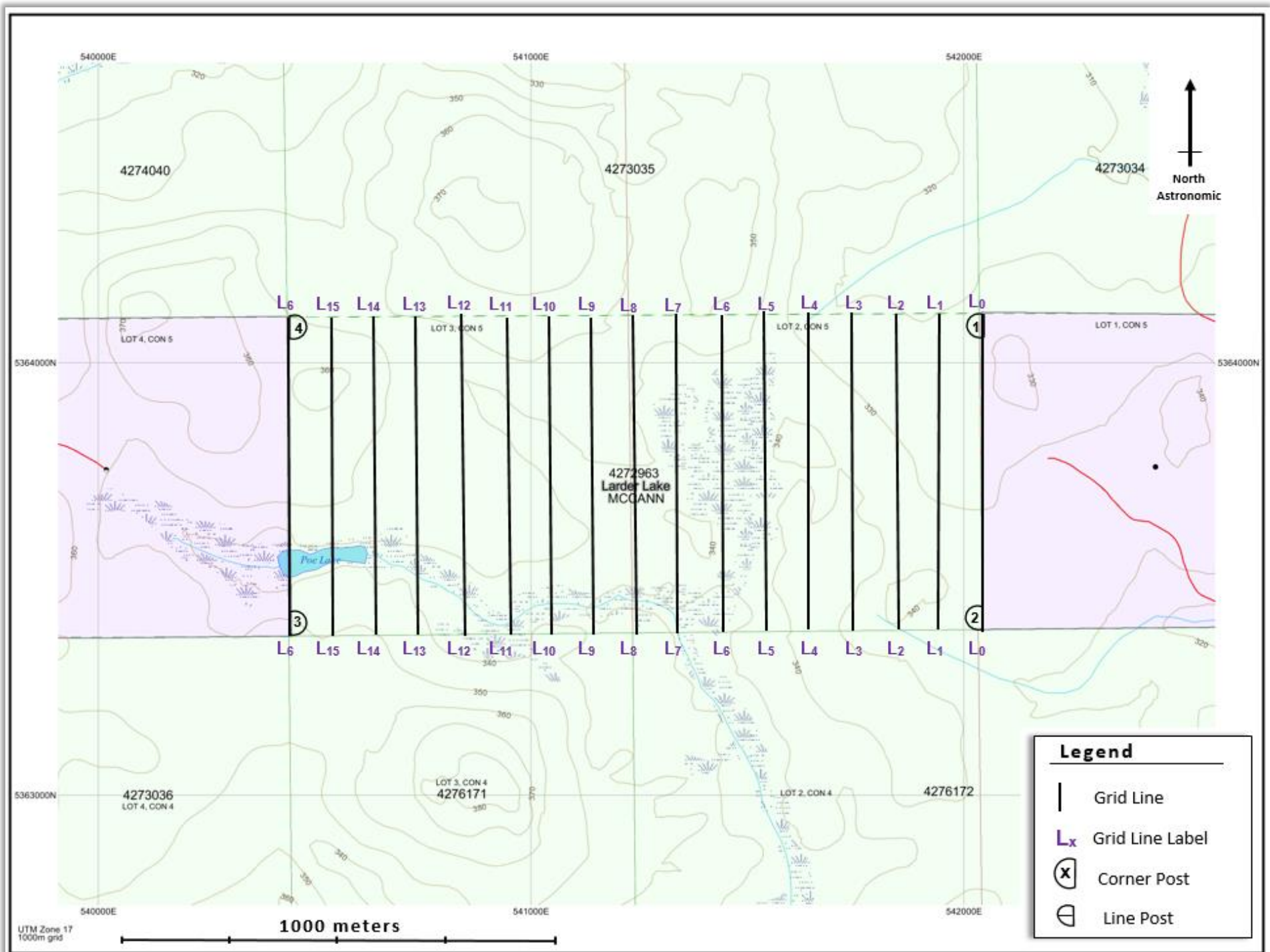
Table 4: Chip sample numbers collected from each claim during field mapping and prospecting. *Refer to **Maps (8 to 15)** for the location of the chip samples within a grid line or a location patch. There are a total of 125 chip samples collected from these claims that were sent to the lab for assaying



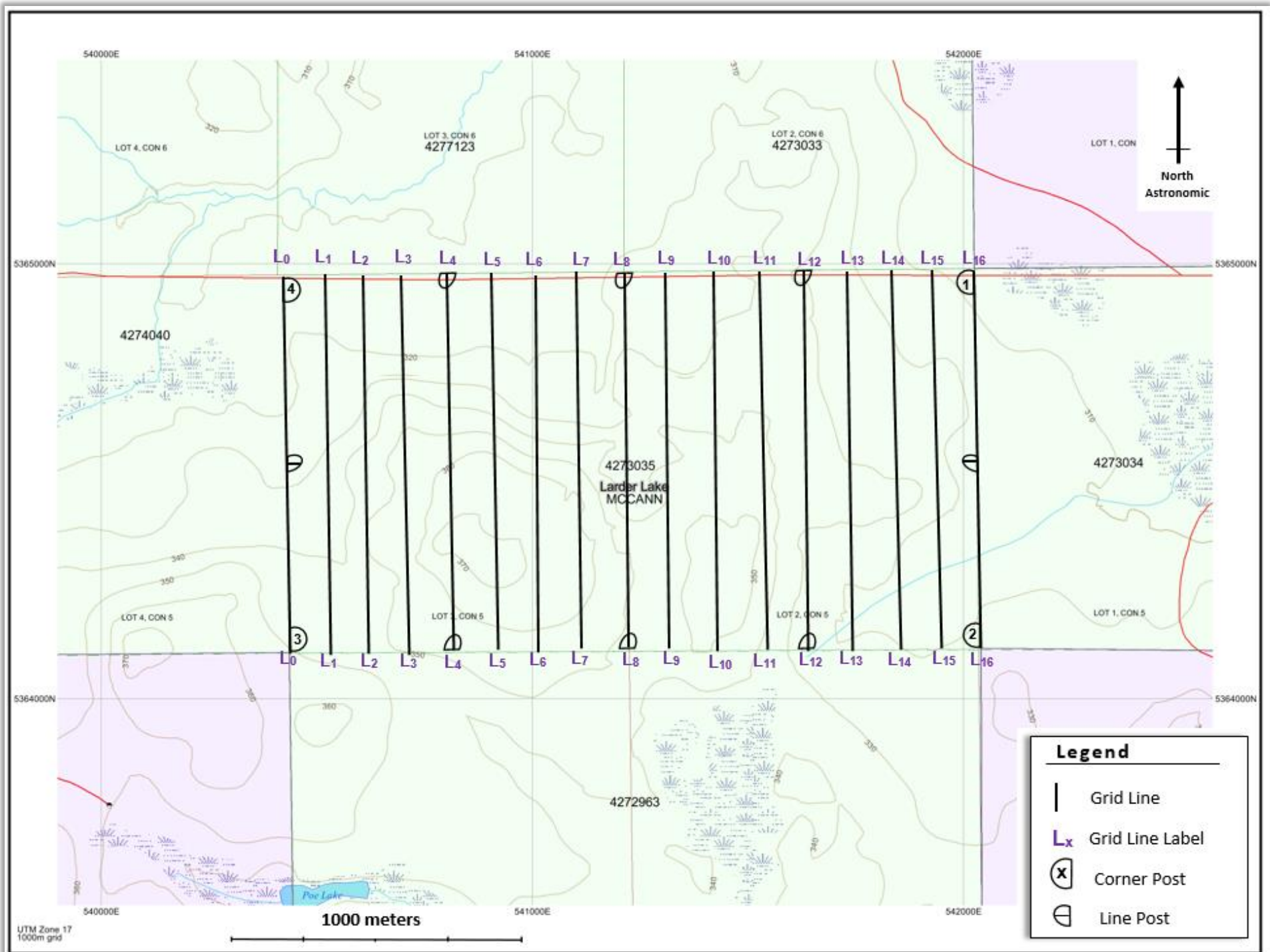
Map 8: Prospecting grid lines in claim number 4273036



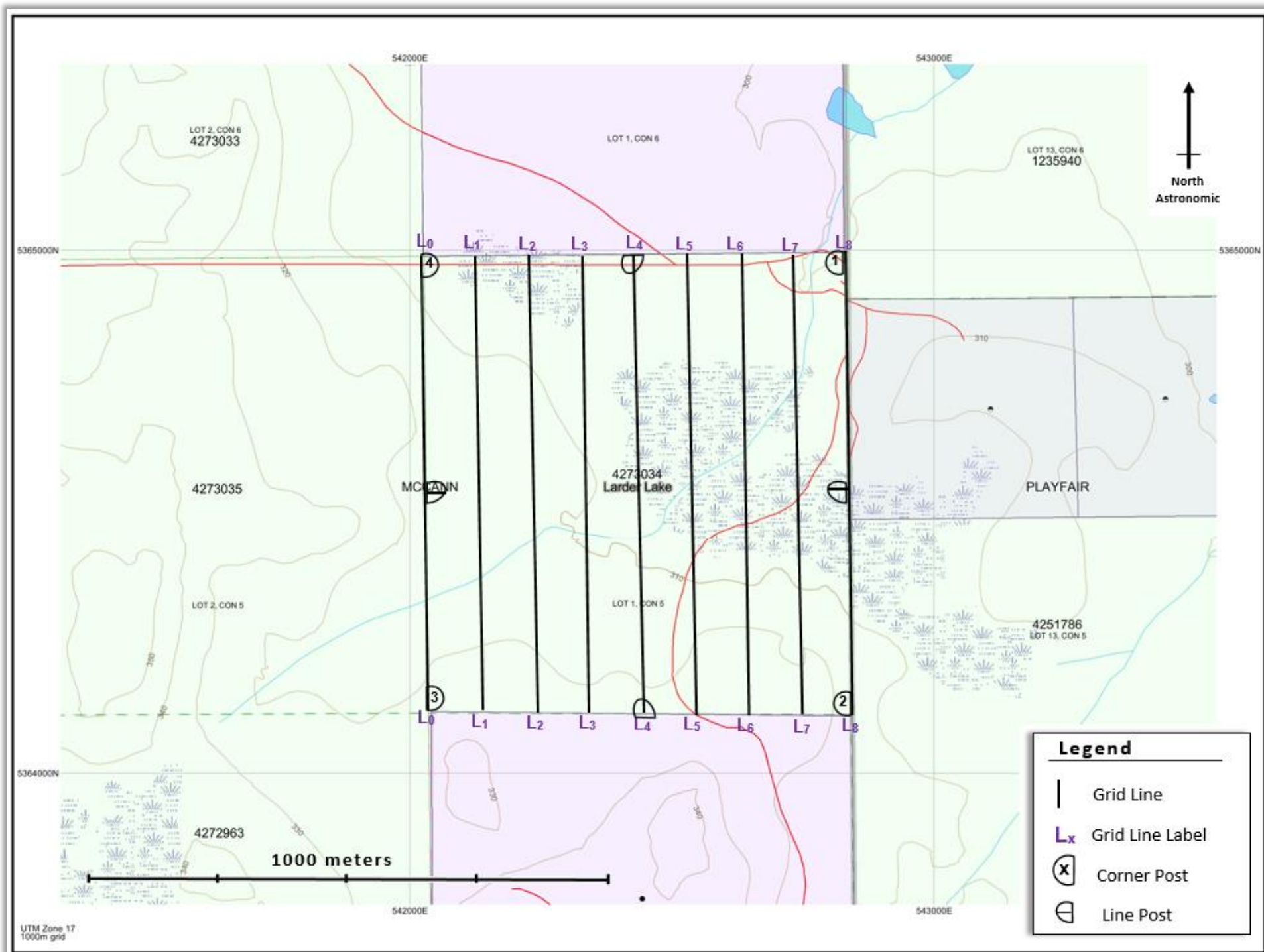
Map 9: Prospecting grid lines in claim number 4276171



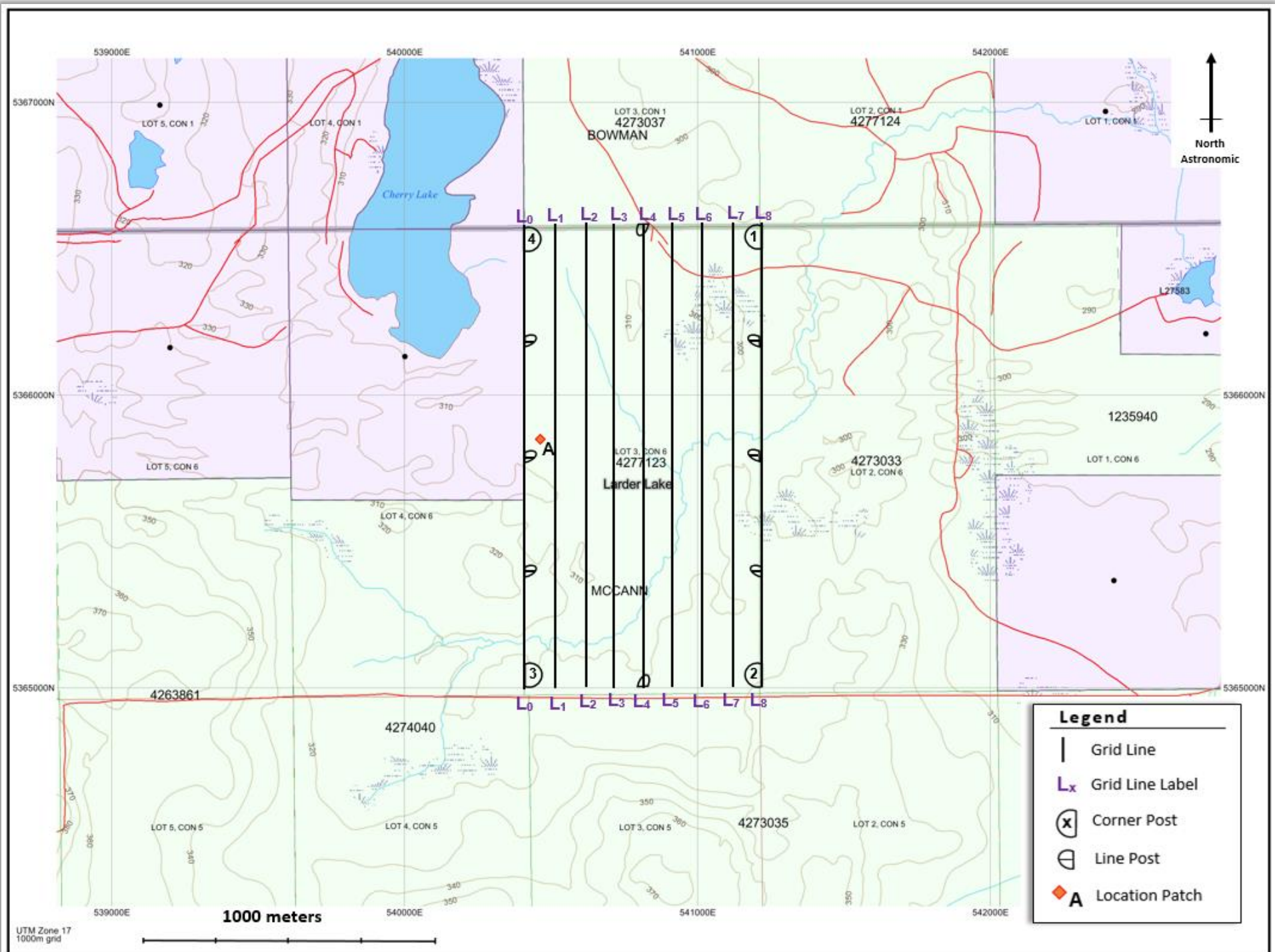
Map 10: Prospecting grid lines in claim number 4272963



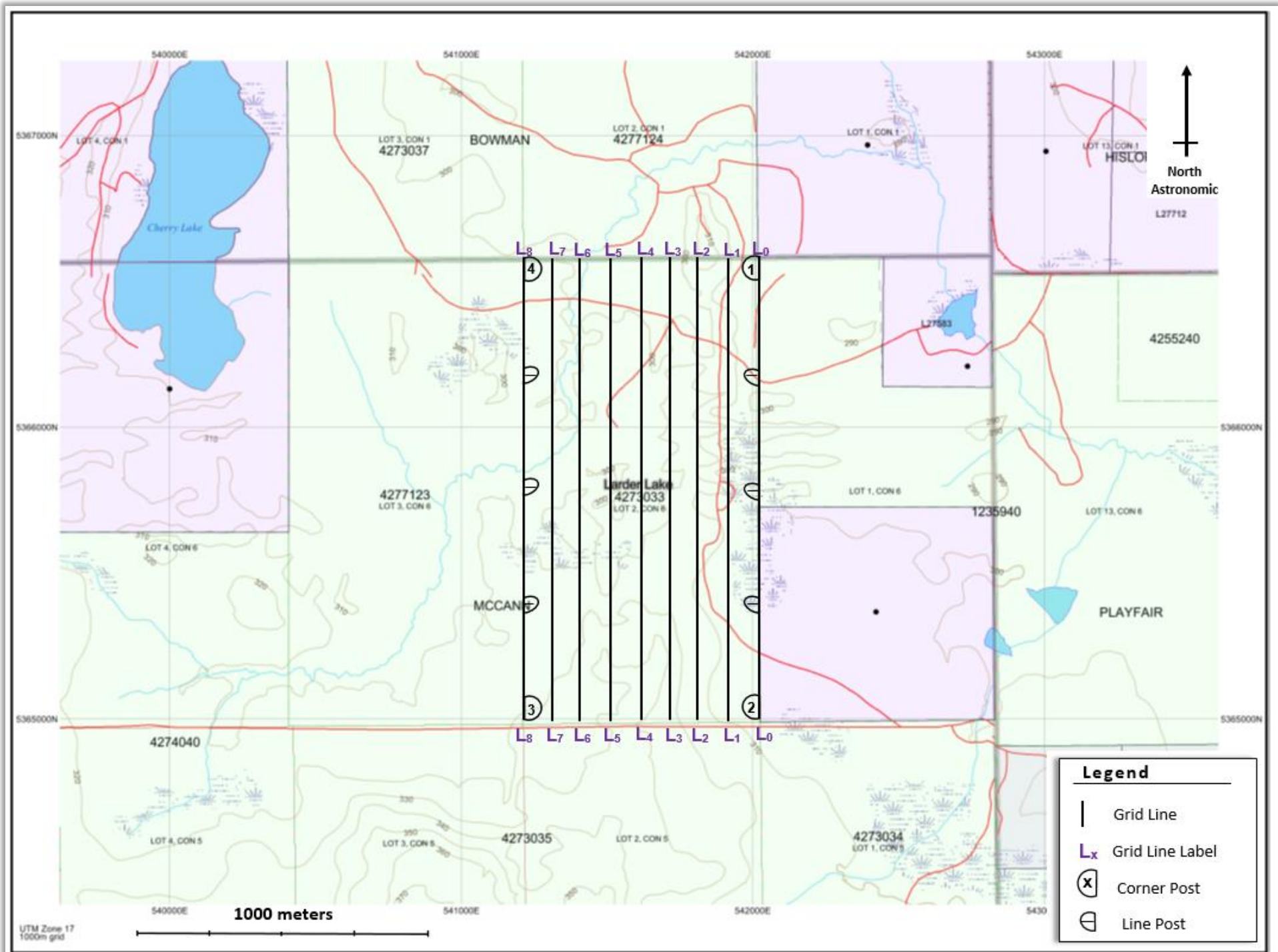
Map 11: Prospecting grid lines in claim number 4273035



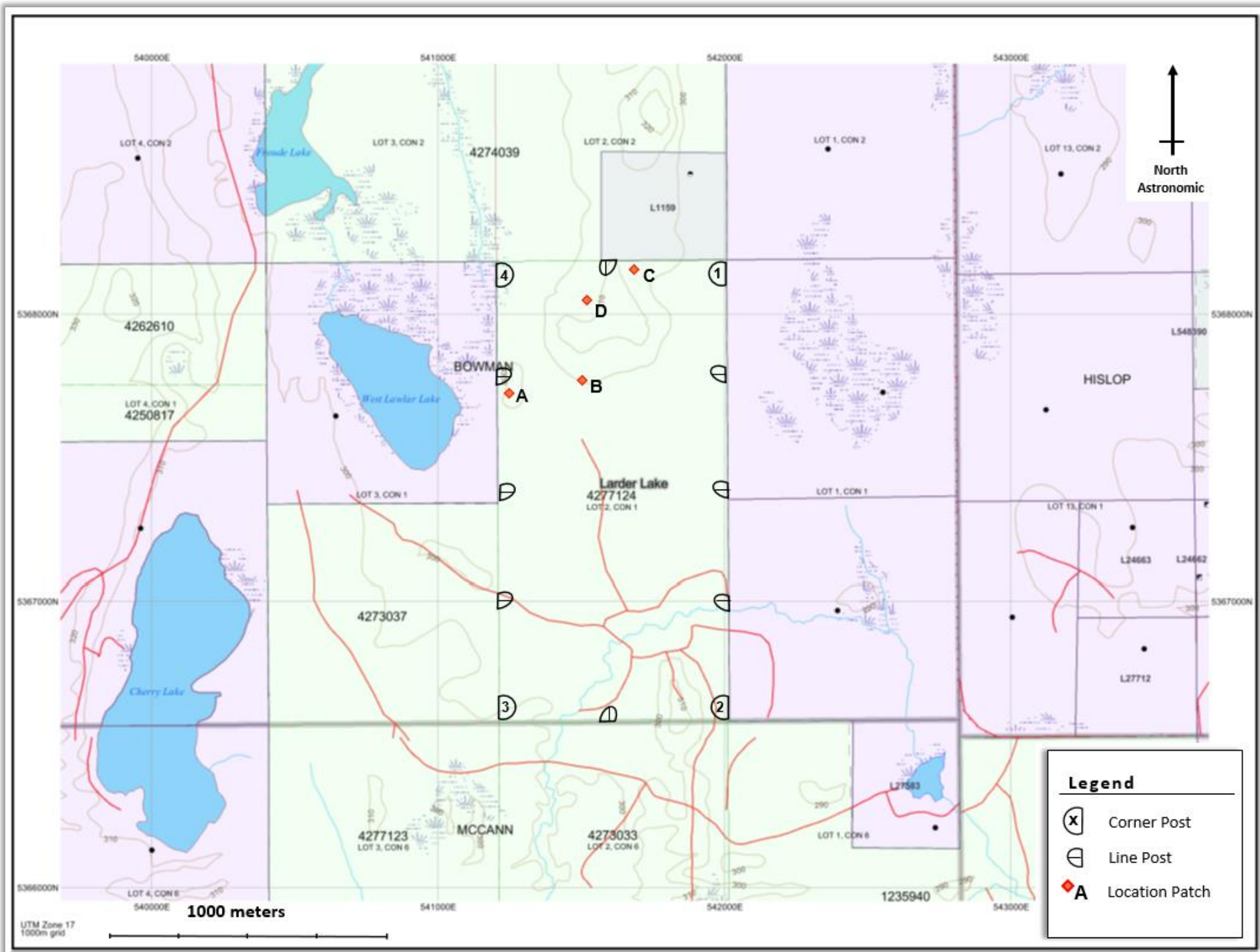
Map 12: Prospecting grid lines in claim number 4273034



Map 13: Prospecting grid lines in claim number 4277123. Location Patch refers to where chip samples were taken



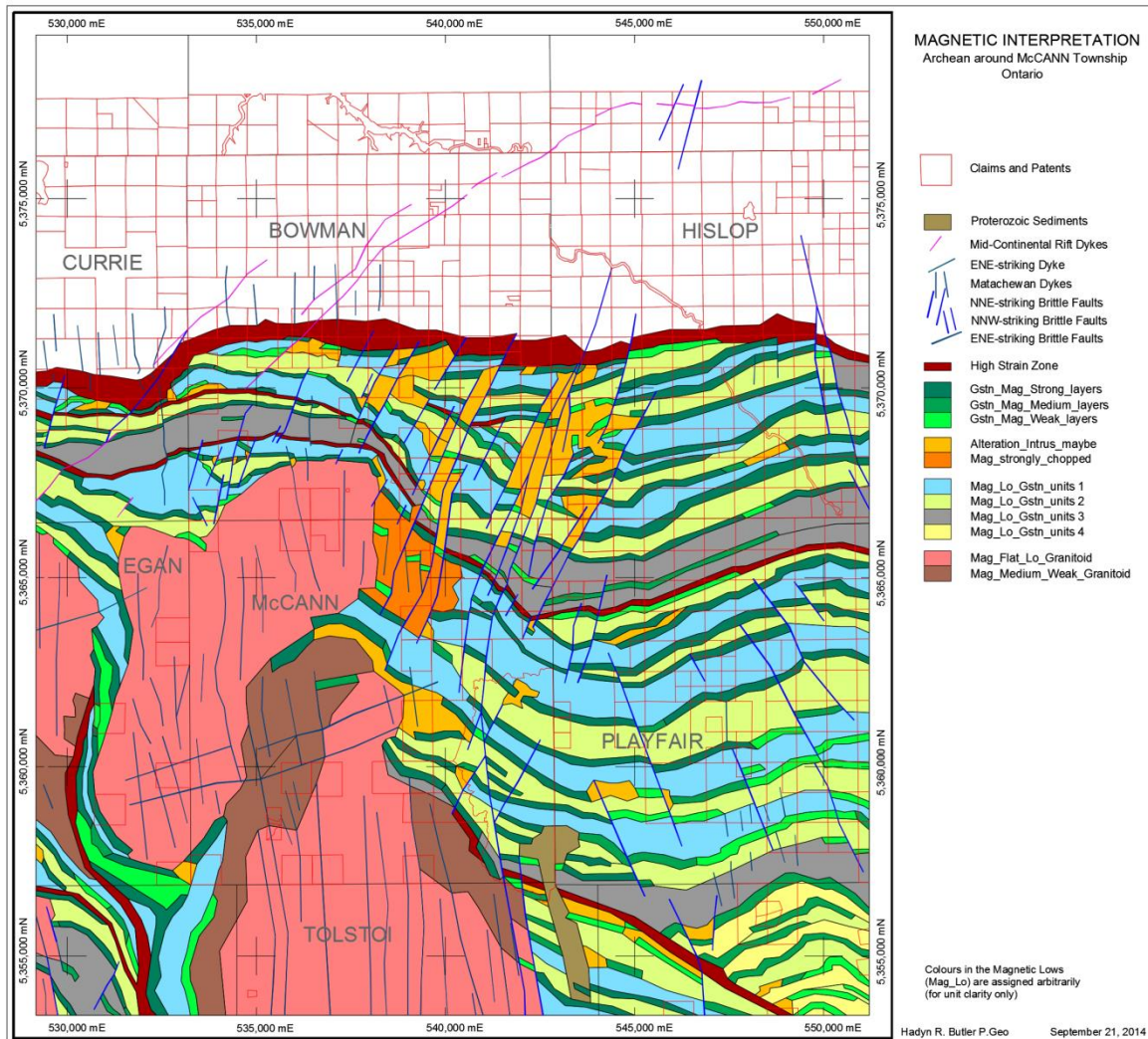
Map 14: Prospecting grid lines in claim number 4273033



Map 15: Prospecting grid and sample location patch in claim number 4277124

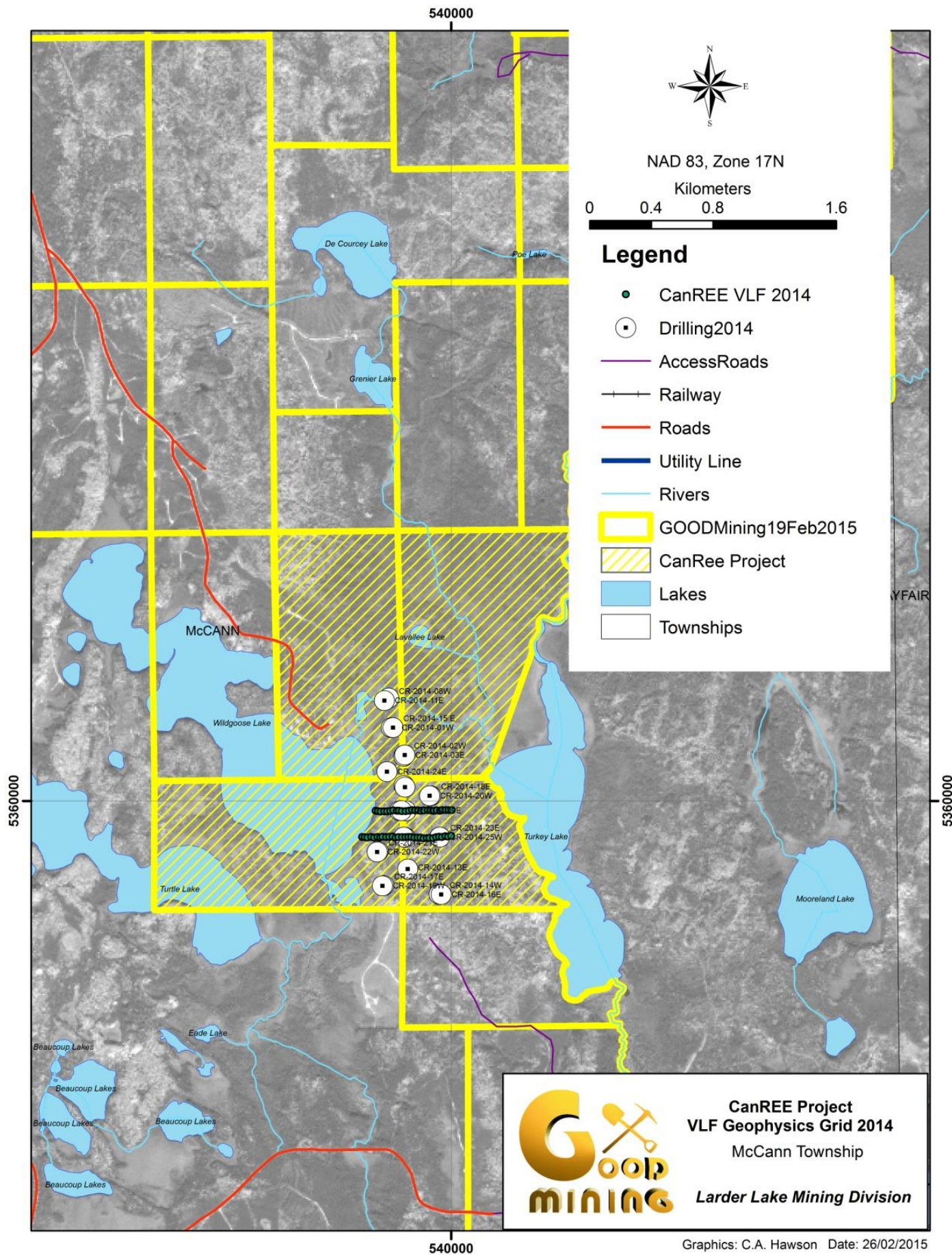
Geophysics:

As mentioned, an IP geophysical survey was conducted by the previous claim holder, Nebu Resources. It was conducted on a 200 meter grid spacing, covering claims 4277124, 4273033, 4277123 and 4273035 of the Golden Target Prospect. Upon meticulous interpretation for geophysical anomaly, including research of the area and regional magnetic interpretation, certain areas were prioritized for mapping and sampling. To go along with the information studied and the existing IP survey, GMEI conducted some overlapping VLF survey, to help spot drill targets on the Golden Target Prospect, and to verify a mineralized zone on the CanREE Prospect. The IP and VLF Surveys were interpreted using new VLF processing and modelling software provided on contract by Shaun Parent of Superior Exploration Ltd., Sault Ste. Marie, Ontario.



Magnetic interpretation of the Bow-Mac Project area – Hayden R.B. 2014

Two VLF geophysical lines were conducted along the east-west side of the CanREE Prospect (See Map 16) which shows the location of these lines. The VLF geophysical survey that was conducted on the CanREE prospect from the shore line of Wildgoose Lake to the shoreline of Turkey Lake and vice versa are interpreted in Figures (1 and 2). The VLF geophysical survey in the CanREE passes through the sites of several drill holes which are indicated in the two figures. The VLF geophysical anomalies within the Golden Target Prospect are shown below in Figures (3 to 5), while Figures (6 and 7) are the surface interpretations of the VLF geophysical lines that were conducted within the Golden Target Prospect, some of these lines pass through drill holes GT01, GT02, and GT03.



Map 16: Showing the location of the 2 VLF lines that were conducted on the CanREE Prospect within the McCann Township property in 2014.

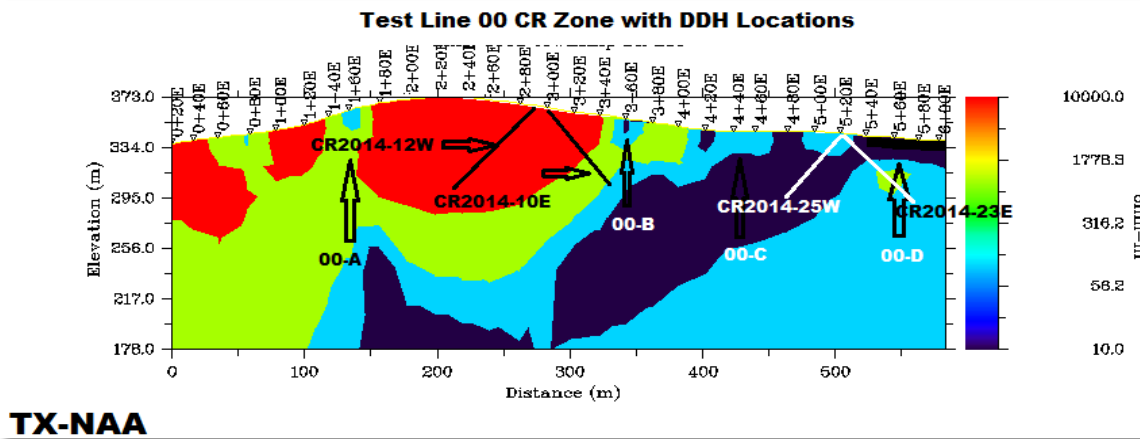


Figure 1: VLF anomalies along the east-west Section of CanREE Prospect.

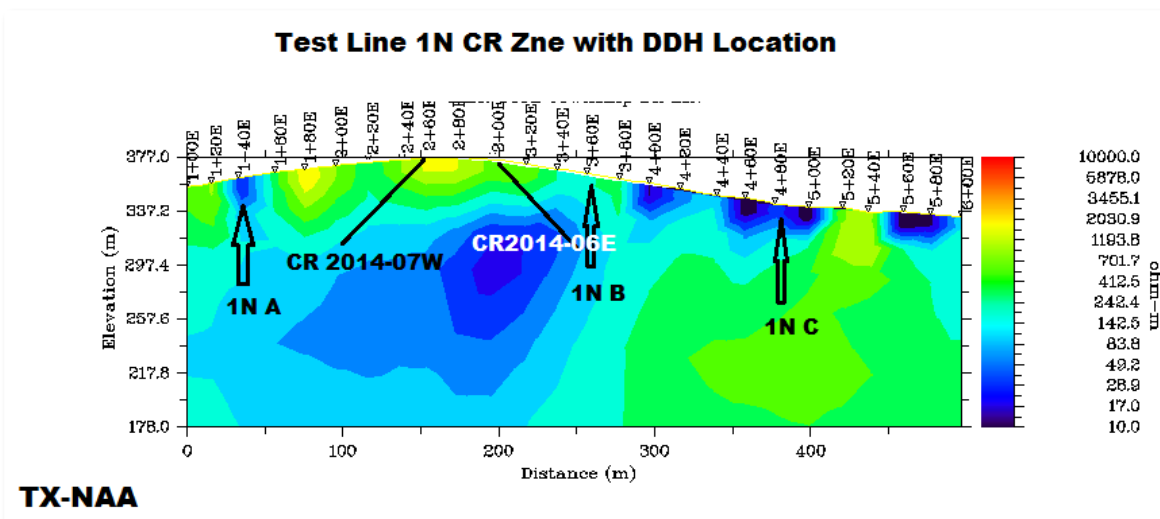


Figure 2: VLF anomalies along the west-east section of the CanREE Prospect

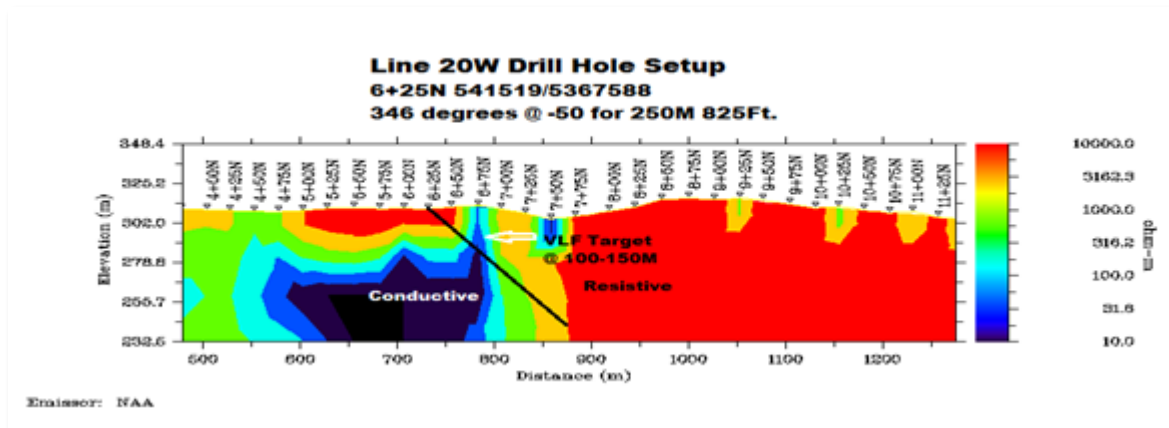


Figure 3: VLF Geophysical anomaly along drill hole GT03 within the Golden Target Prospect

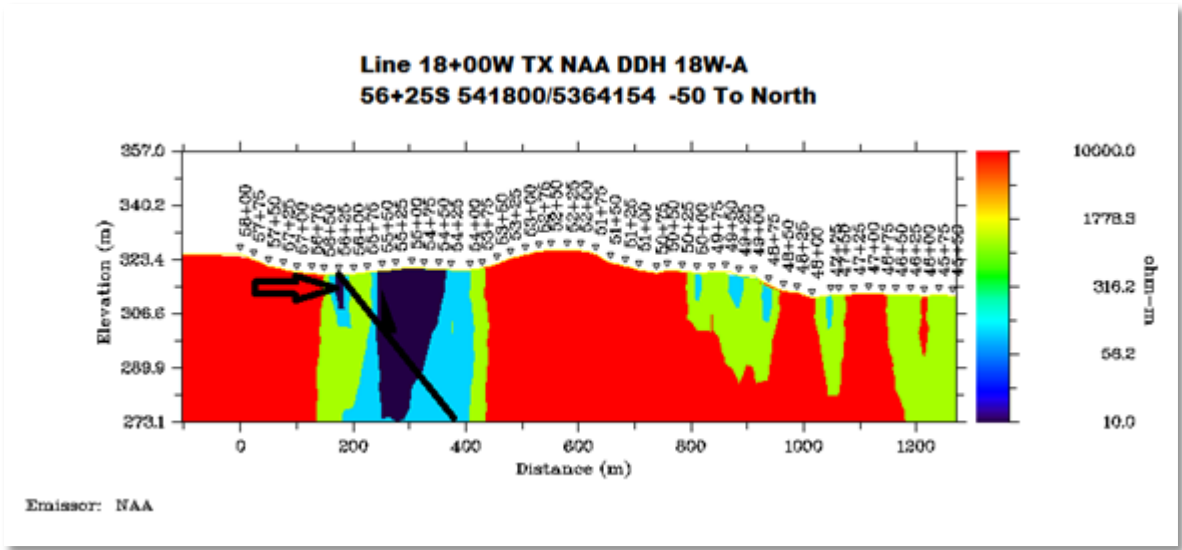


Figure 4: VLF Geophysical anomaly along GT01 within the Golden Target Prospect

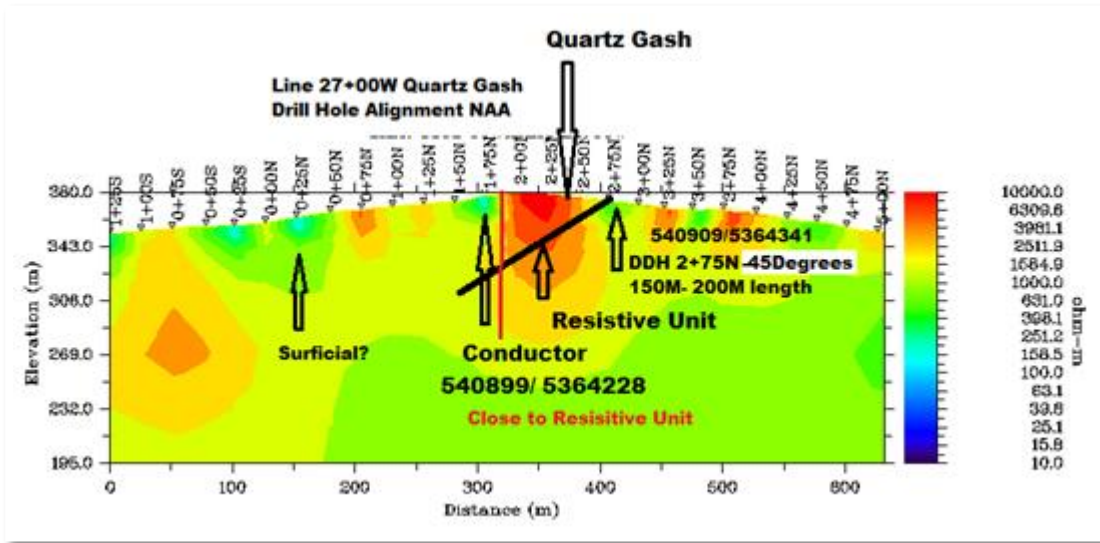


Figure 5: VLF Geophysical anomaly in drill hole GT02 within the Golden Target Prospect

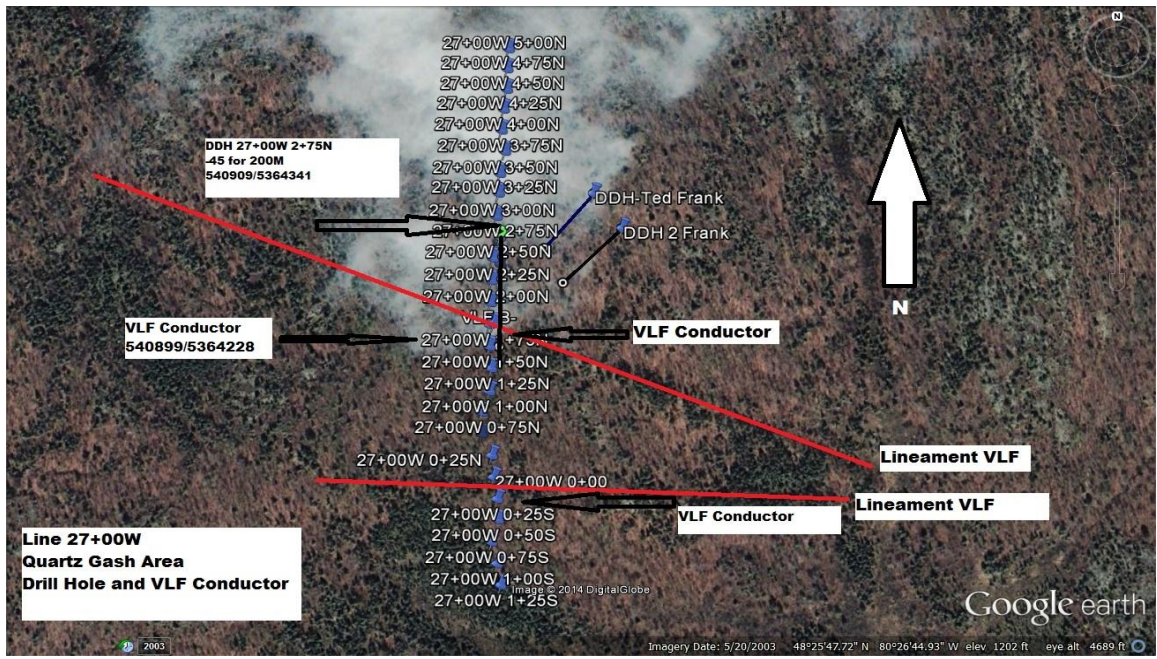


Figure 6: VLF surface interpretation along drill hole GT02 within the Golden Target Prospect in claim number 4273035

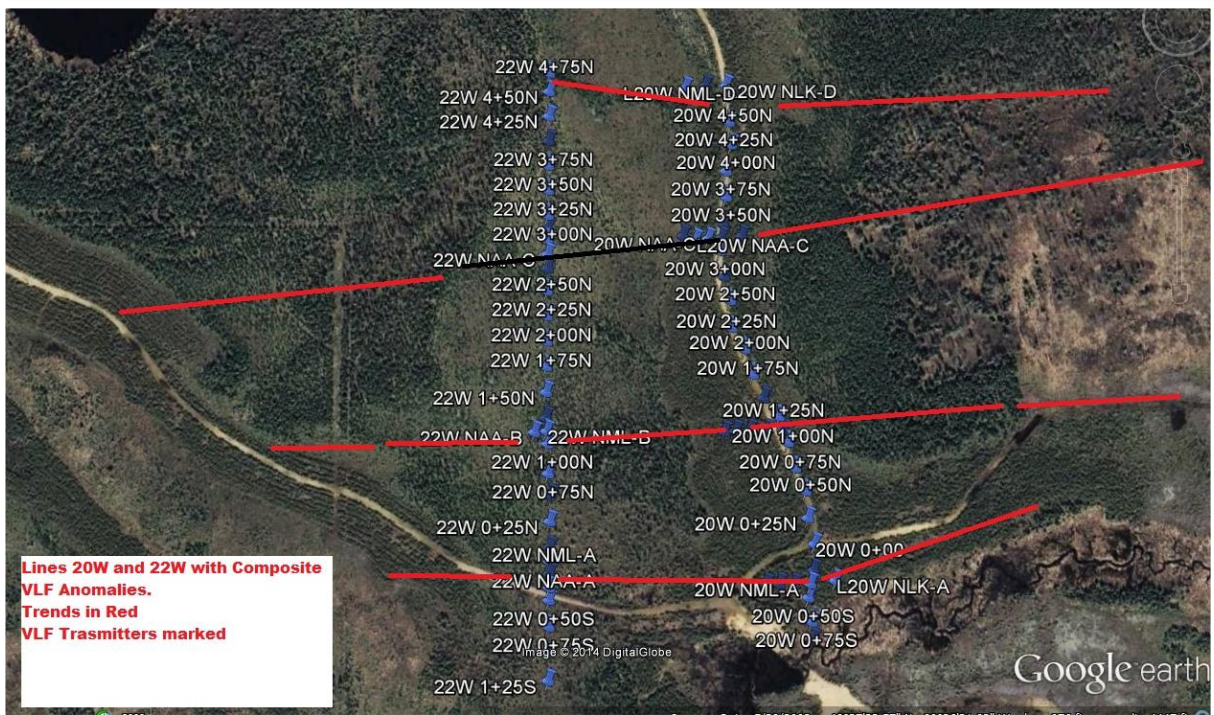


Figure 7: VLF surface interpretation south of drill hole GT03 in claim number 4277124

Stripping:

One of the physical work types done was stripping, which is a procedure to remove overburden and to expose the bedrock. A couple of locations needed to be exposed and stripped for geological purposes; such as interesting geological rocks and quartz veins that may contain possible platinum group elements and gold deposits. This process was used to expose bedrock for channel sampling, which will be described below in the channelling section. Exposing of the bedrock was also helpful for geological mapping and geological interpretations. See **Channeling** section and **Appendix A** for accurate dates and description of when stripping was performed.

Channeling:

Channeling is the process of collecting samples with a handheld saw and diamond cutting blade, at certain intervals within an exposed area of bedrock. In our exploration season we wanted to expose and channel the two large quartz veins discovered, which may contain possible platinum group elements (PGE's) and gold deposits. Channeling procedure starts with land stripping using the excavator as explained earlier in the stripping section. The exposed bedrock is then measured and described by the geologists on site.

The first channeling was done on claim number 4273035 near the second drill hole in the Golden Target area (GT02) and it was done by Frank Dusome, Dennis Patron, Ce Shi and Athraa Koma. A quick cut saw was used to cut the bedrock and collect 22 samples at 1 meter interval, mostly along the large quartz vein and some along the smaller branched quartz veinlets. A large hose was used to provide water for the



saw. The samples were then described and sent to Swastika Laboratory and to the Elliot Lake Research Station (“ELRFS”) lab of Laurentian University for assaying.

Figure 8 shows a sketch of the channelling, and **Table 4** contains the sample number and the description of each sample. The second channelling was done on the same claim at a different location where another large quartz vein was discovered. **Figure 9** shows a sketch of the channel. The picture to the left shows an example of a sample 1 meter long and 4 centimeters wide that was cut along the quartz vein. .



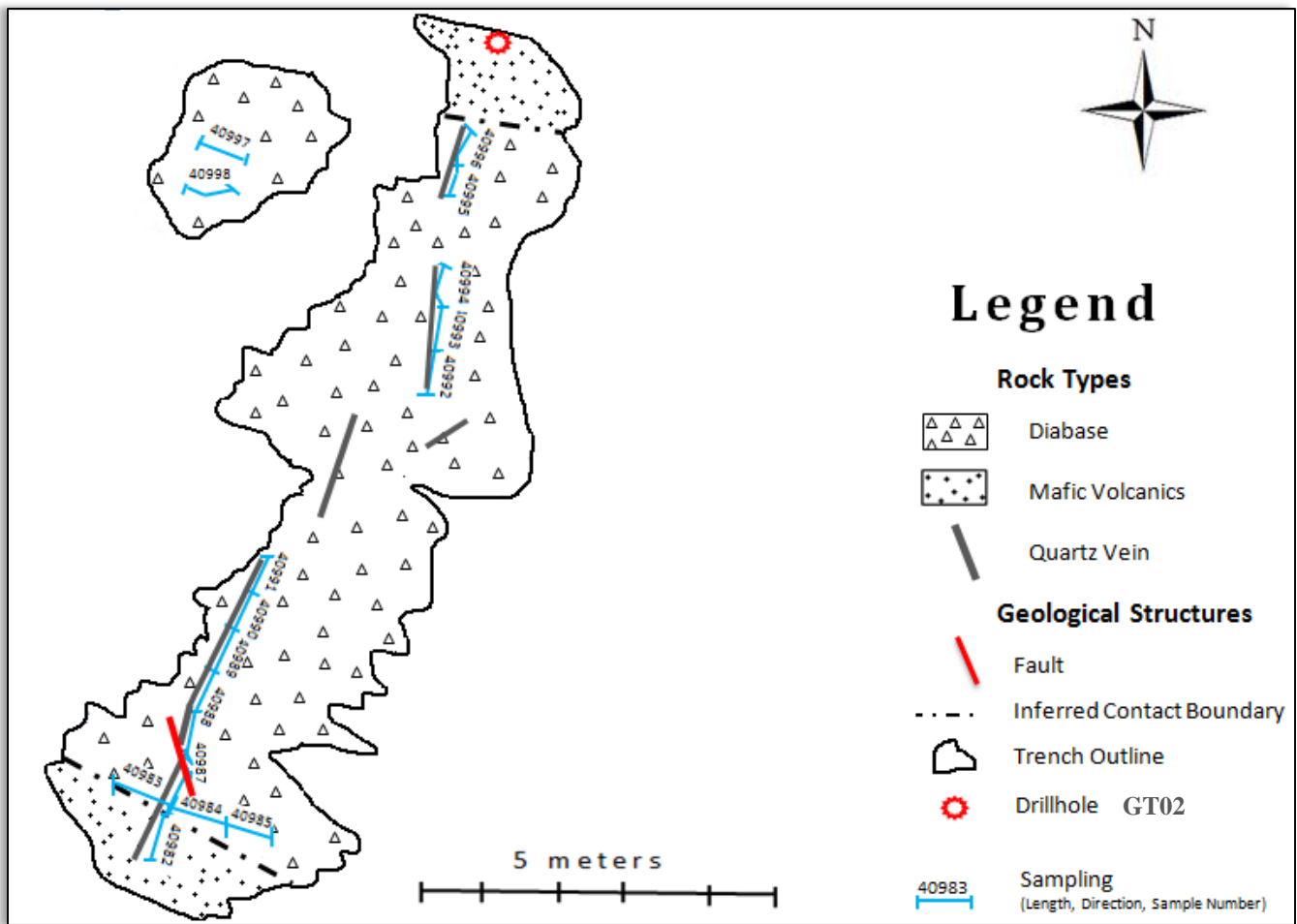


Figure 8: Channel mapping and sampling in claim number 4273035, near drill hole GT02 in the Golden Target prospect

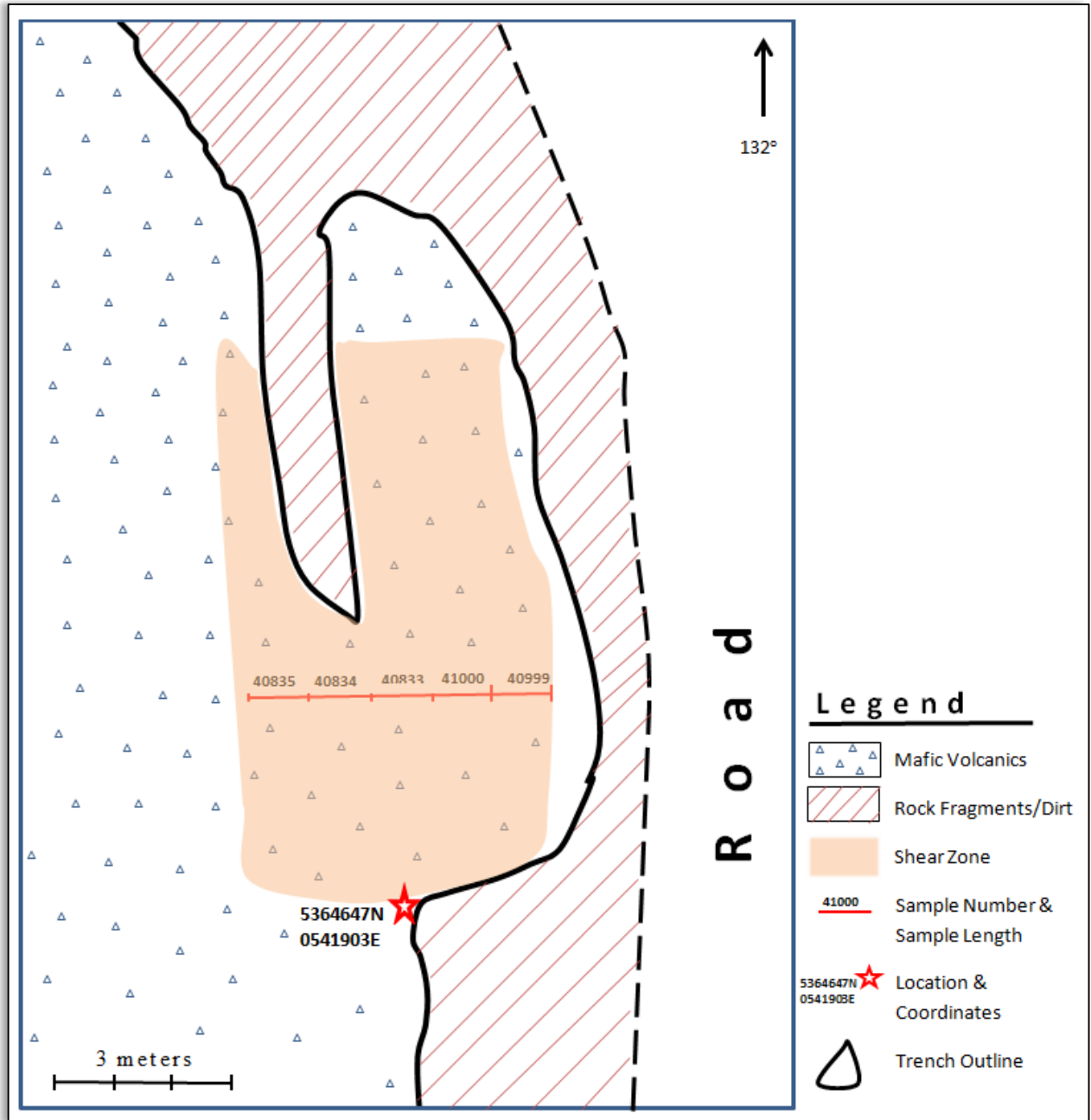


Figure 9: Second channel mapping and sampling in claim number 4273035

Sample Number	Description
40982	20% dirty quartz vein (reddish and bluish stains) and 80% mafic volcanics. Fine, greenish-greyish grains with bluish and rusty colour stains in some of the rock faces. Contains few epidote veins that branch off (interstitial texture) and high sulphide mineralization (10%-20%) of the total rock sample. moderately to strongly magnetic, moderately to strongly ankeritic and non-calcareous.
40983	99% medium grain diabase with 1% dirty Quartz. The diabase has about 20% feldspar phenocryst that are orang-ish in colour and coarse (2mm-5mm). Single epidote fractures was on the rock and some rock faces show interstitial epidote texture and weathered into a rusty colour. Diabase is moderate ankeritic and moderately strong magnetic and non-calcareous.
40984	1% Quartz vein and 99% diabase. Bluish-greenish, fine to medium grains with the presence of 15% coarse feldspar phenocryst. Contains epidote veining and interstitial texture with some rusty colour rock faces. Sulphide mineralization ranges from 1% to 2% which includes mostly pyrite within veins and scattered throughout the rock sample. Strongly to moderately magnetic, moderately ankeritic and non-calcareous.
40985	100% Diabase - contains 20% coarse orang-ish feldspar phenocryst (2mm-3mm). Very little sulphide mineralization from trace to 0.5% and the rock itself is non-calcareous, moderately to strongly magnetic and moderately ankeritic. There are two epidote veins that are 2cm and 3cm wide respectively.
40986	2% Quartz vein and 98% diabase. Bluish greenish medium to fine grains. Covered by epidote patches and veins and rust on the edges and fracture zones. High sulphide mineralization, some are well developed pyrite and chalcopyrite which covers a total of 5% to 10% of the total sample. Presence of vugs and pit on the quartz vein which are sometimes filled with sulphide minerals, quartz crystals and rust. The quartz shows reddish stain across some zones which could be interpreted as a hematite stain. Moderately magnetic, moderately ankeritic and non-calcareous
40987	10% Quartz vein and 90% Diabase. Bluish-greenish fine to medium grained and contains coarse feldspar phenocryst that are 2mm-5mm in size and also two coarse feldspar veins orang-ish in colour that are 2cm and 4cm wide respectively running through the diabase. Two small chlorite veins that are less than 2mm and few epidote veins that branch off with an interstitial texture. High sulphide mineralization that are well developed scattered throughout the sample and within fractures and epidote veinings about 10% to 15% of total sample. moderately to strongly magnetic, moderately ankeritic and non-calcareous
40988	2% Quartz vein and 98% diabase. Bluish greenish medium to fine grains with 5% coarse feldspar grains. Covered by epidote patches and veins and rust on the edges and fracture zones and few interstitial epidote textures. High sulphide mineralization, some are well developed pyrite and chalcopyrite which covers a total of 10%-15% of the total sample. moderately to strongly magnetic, moderately ankeritic and non-calcareous
40989	30% quartz vein and 70% diabase. The diabase is bluish-greenish medium grained rock that contains chlorite veins that are less than 2mm. The rock itself is altered and has a rusty weathering colour on the edges and contains epidote, hematite and rust fracture filling. High sulphide mineralization with some well-developed pyrite and chalcopyrite; about 5% to 10%. It is moderately magnetic, moderately ankeritic and non-calcareous. Presence of vugs and pits over the quartz vein
40990	10% quartz vein and 90% diabase. The diabase is fine to medium, greyish-greenish-bluish grains with a poikilitic texture. Contains stains of hematite and epidote patches which covers 40% of the total diabase rock. The quartz vein contains epidote, hematite and rust fracture filling. Come vugs and pits around the quartz vein are noticed as well. Sulphide mineralization within the fractures and scattered around the rock; about 2% - 5% in total. Moderately to strongly magnetic, non-calcareous and moderately to strongly ankeritic.
40991	5% Quartz, 5% epidote and 80% diabase. Quartz are mostly in vugs and pits. Fine to medium grain diabase with epidote shows up to 2 fracture faces with rusty color. Epidote shows in veins throughout Quartz and shows a 1cm zone along the channeling edge. Dark greenish blue diabase, light green epidote and dirty quartz. Pyrite is in fine to medium disseminated near the Quartz vein and vugs, about 0.5%. 3-5% medium disseminated pyrite is on the fractures of diabase. Pyrite in total is about 2%. It is moderate to moderate strong magnetic on diabase, weak to none magnetic on Quartz-rich diabase. Diabase is moderately ankeritic.

Table 5: List of all the channel samples collected from the first channel along the large quartz vein and quartz veinlets near drill hole (GT02) in the Golden Target area. There were a total of 22 samples collected and are described in this table.

40992	3 cm Quartz vein with coarse grain mafic diabase. The Quartz vein has some vugs and pits. Epidote patches are in the Quartz vein. Rusty surfaces are on both diabase and epidote. Trace pyrite is in Quartz vein. 3-10% coarse disseminated pyrite is in the epidote fractures along the Quartz vein. 0.5% disseminated pyrite in diabase. Pyrite in total is about 3%. It is weak magnetic in Quartz vein and epidote patches, moderate to moderate strong magnetic in diabase. Certain spots of dark disease are strong magnetic. It is weak to non-magnetic.
40993	85% Coarse grain mafic diabase with 15% Quartz. An epidote vein-rich patch is by the Quartz vein. 5% Coarse grain pyrite mineralization is found on some fractures in diabase. Trace/0.5% fine disseminated pyrite is on both the small epidote vein-rich patch and diabase. Pyrite in total is about 2%. It is moderately strong magnetic in diabase. Weakly ankeritic.
40994	20% 3 cm width Quartz vein with 10% weakly silicified mafic diabase and 70% diabase. Meshwork Epidote fractures are throughout Quartz vein and diabase. Interstitial epidote features show on some chips. Rusty color is on some Quartz. Rusty fractures are on diabase. Trace pyrite is on the Quartz vein. 2% fine disseminated pyrite is on epidote veins throughout the Quartz vein. 3% to 5% fine disseminated pyrite is on epidote veins beside the Quartz vein, interstitial epidote diabase and epidote fractures in diabase. Quartz shows vugs and pits on some chips. It is strong magnetic in weak silicified diabase, pyrite-rich diabase and weak to none magnetic in the Quartz vein. Weak ankeritic on diabase.
40995	50% quartz vein hosted in a diabase matrix, the diabase is Strongly magnetic and the quartz vein is non-magnetic. Non-calcareous and non-ankeritic. The diabase contains epidote fracture filling and some epidote patches. The quartz vein contains fractures, vugs and pits that are filled with rust, hematite and sometimes epidote. 1% -2% Pyrite mineralization. Both the quartz vein and the hosted rock; diabase contain rust on edges and at fracture zones.
40996	100% quartz vein, reddish whitish with some patches of blue within the quartz vein. Non-magnetic, non-calcareous, weakly ankeritic. Contains fractures filled with epidote, hematite, pyrite and rusty colour. Contains 1% - 3% sulphide mineralization including pyrite and chalcopyrite and arsenopyrite. Some of the pyrite is well developed but most of the pyrite is small grains within fractures and veins.
40997	99% Epidote altered diabase and 1% quartz vein. Bluish greenish rock that is strongly magnetic, moderately ankeritic and weakly calcareous. Epidote, rust, pyrite fracture filling and high sulphide mineralization 2% - 5%. The rock contains small vugs and pits that are 0.1cm-0.5cm wide. The quartz vein contains epidote fracture filling and a rusty colour along edges and fractures. Small section along edges are yellowish in colour due to sulphur content
40998	90% Diabase and 10% Quartz vein. The host rock is Diabase, coarse to medium greenish bluish grains with the salt-pepper texture defined by the orange-ish feldspar coarse grains. Strongly magnetic and strongly to moderately ankeritic, weakly to non-calcareous. Altered with epidote patches and contains 1-2mm epidote veins and chlorite veins less than 1mm pyrite veining. One of the pieces contains a chilled margin. The quartz vein is covered with 85% reddish colour due to hematite alteration.
40999	Fine mafic volcanics. Moderate strong magnetic. Epidote stockworks veining (1mm to 1cm width). Some possible hematite altered veins.
41000	Fine mafic volcanics. Moderate strong magnetic. Epidote stockworks (<3mm width). Hematite altered veins? 0.25%-0.5% surface disseminated pyrite near epidote veins.
40833	Fine mafic volcanics. Moderate strong magnetic. Epidote & quartz stockworks. The widest epidote vein is about 6 cm wide with 2cm width chert inside. Trace Pyrite.
40834	Fine mafic volcanics. Moderate magnetic. Thin (<1mm) width parallel epidote veins. trace pyrite
40835	Fine mafic volcanics. Moderate magnetic. Thin (<1mm) epidote and quartz meshwork's. Trace to 1%pyrite in fracture faces.

Table 5 (Cont'd): List of all the channel samples collected from the first channel along the large quartz vein and quartz veinlets near drill hole (GT02) in the Golden Target area. There were a total of 22 samples collected and are described in this table.

Line Cutting:

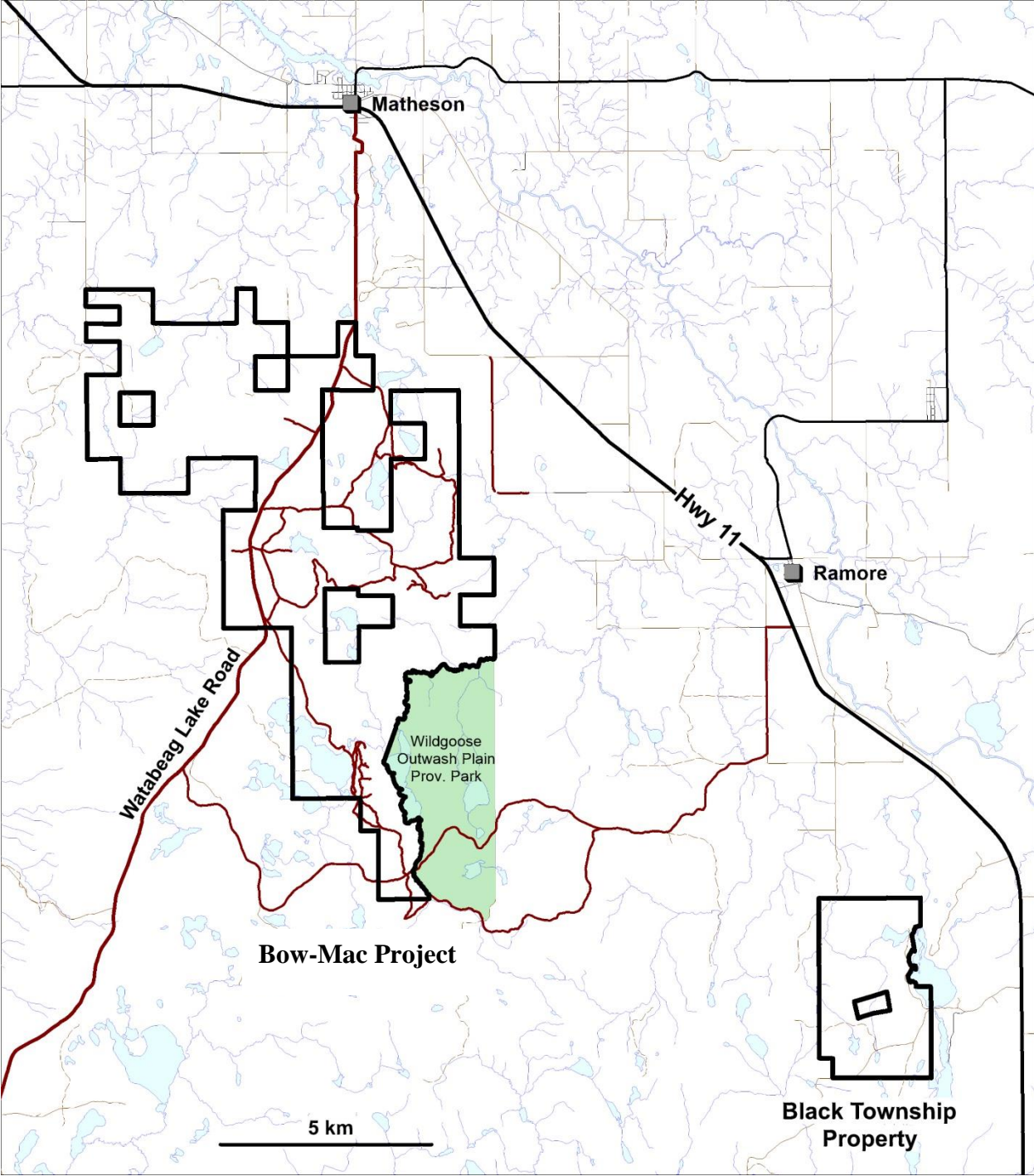
Line cutting is usually done to create a trail clearing through the bush for geological reasons. Line cutting was performed on several different claims. One of the reasons is to create an access trail for the drill site and to create drill pads. All of our drill sites needed access trails. Therefore line cutting was done to access those sites, allowing the drillers to transport their equipment such as drills, pumps, core boxes and other equipment through the trails. Other reasons for line cutting was for geological mapping, geophysical surveying and trail building to access certain locations, remote camp build up, and temporary camp buildup.

The first step in line cutting was to plan and determine grid lines that needed cutting. One or two people would walk through the bush using the GPS to determine the most efficient line to be cut, considering unmanageable rock outcrops and swampy locations, and then used flagging tape to flag the way for the line cutters. The majority of the line cutting was performed by J-Birch Tree Service along with GMEI staff and labour workers using chain saws. A private excavator contractor (Lougheed Trucking, a private excavator operator, Mack Evans, and also GMEI staff on a rented excavator and backhoe were all used at different stages of the season, to clear the line cut paths and pull stumps for the drill lines and pads.

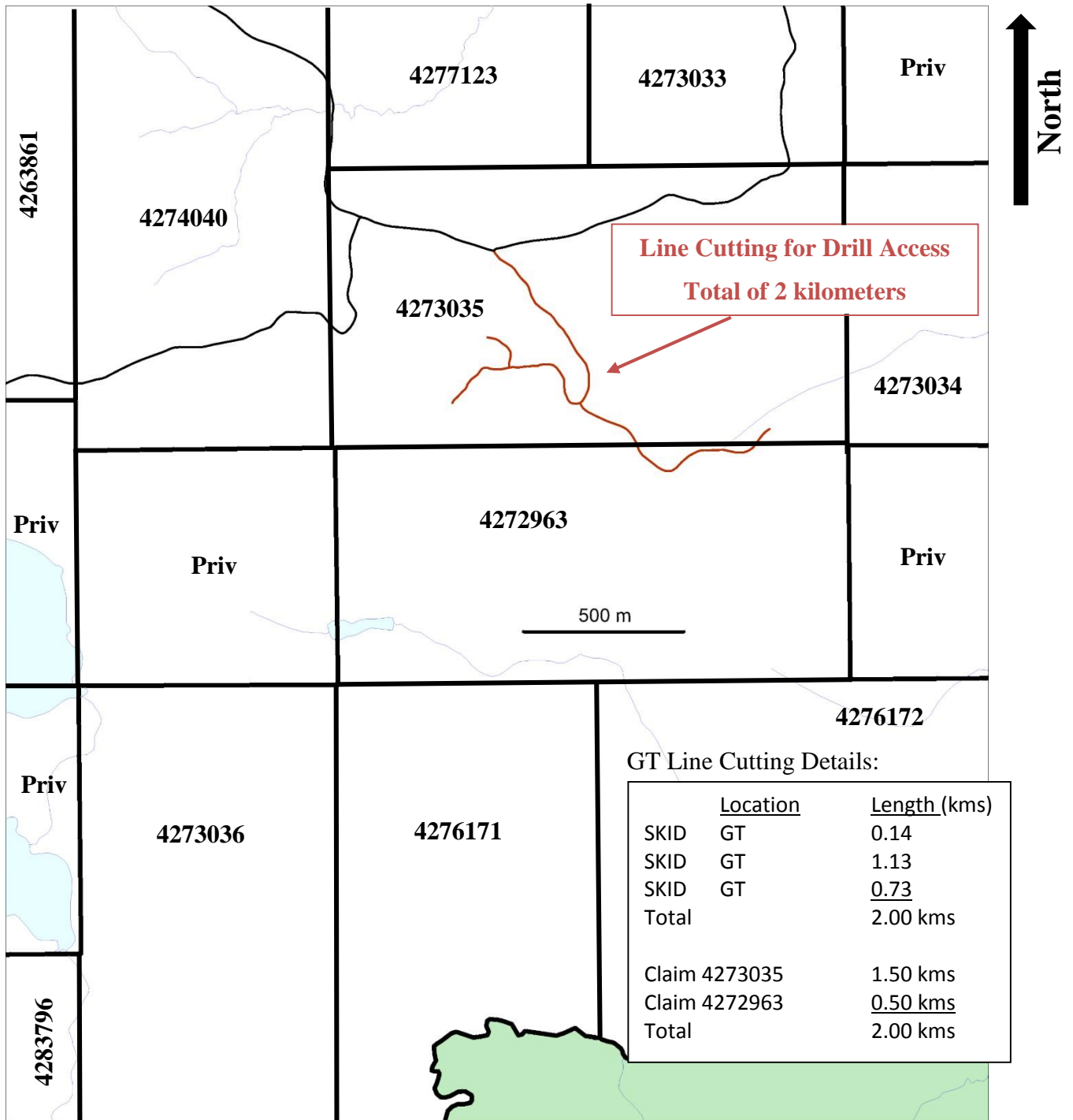
*See Appendix A which lists all of the dates and the workers involved with line cutting and machine work, and also lists claim numbers and locations of the lines that were cut.



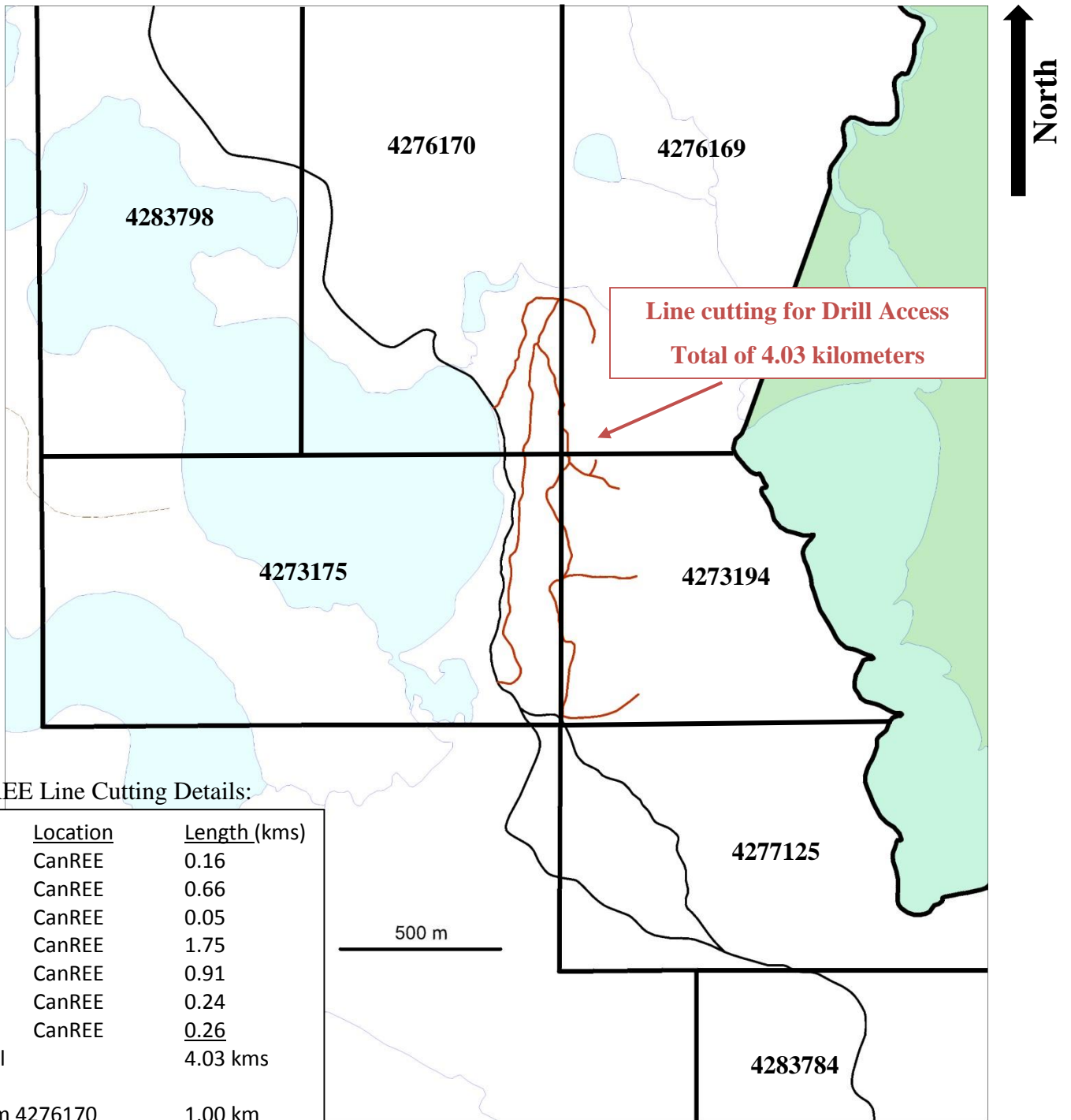
Map 17a: GMEI Mining Claims General Trail and Access Map



Map 17b: Golden Target (GT) Line Cutting for Drill Access Map (red lines)



Map 17c: CanREE Line Cutting for Drill Access Map (red lines)



CanREE Line Cutting Details:

	<u>Location</u>	<u>Length (kms)</u>
SKID	CanREE	0.16
SKID	CanREE	0.66
SKID	CanREE	0.05
SKID	CanREE	1.75
SKID	CanREE	0.91
SKID	CanREE	0.24
SKID	CanREE	<u>0.26</u>
Total		4.03 kms
Claim	4276170	1.00 km
Claim	4276169	0.53 km
Claim	4273194	1.40 km
Claim	4273175	<u>1.10 km</u>
Total		4.03 kms

Diamond Drilling:

During the dates of the work in this report, a diamond drilling program was undertaken on both the CanREE and Golden Targets prospects. Drilling was conducted between July and November 2014 using Walker Drilling as the drill contractor. Drills used were a portable Atlas Copco diamond drill, and an Acker Renegade diamond drill. The Atlas Copco drill was towed to the drill sites using a Bombardier track driven hauler, and sometimes aided by the excavator. The Acker Renegade drill was a self-propelled drill unit on its own track system. The drilling program totaled 3,086 linear meters of NQ core drilling over 28 drill holes. Drilling was planned in order to investigate the presence of REE mineralization in the CanREE prospect and Au mineralization associated with VLF conductors in the Golden Target prospect.

*See **Table 6** which contains a summary of all drill holes in 2014, and **Maps 18 to 20** for drill hole location maps.

Drill holes were spotted by Dennis Patron (the P.Geol and QP on the project), using a handheld GPS into the line cutting grid. The dip and azimuth of the drill holes were checked once the drill rig was onsite and leveled. The drill contractor (Walker Drilling) used imperial length rods; hence drilling runs were of 10 feet. Wooden blocks were placed at a 10 foot interval to differentiate “runs” in the wooden core boxes. Downhole deviation of the drill holes were recorded using Reflex™ multi-shot survey instrumentation every 10 feet. The database for the CanREE and Golden Target prospects were converted from imperial to metric units. Upon completion of a drill hole, a monument comprising a thick log (3 to 5 feet high) and metal tags are placed in the casing hole to mark the position of the drill hole.

Core boxes were transported to the logging facility in the camp by the drilling contractor using an ATV or pickup truck. Once the core was received by the geologist, the boxes and core length were measured and the RQD values were recorded. The core was then wetted for a quick log on paper, sampling intervals selection, and photography of 3 core boxes at the time were taken (as shown on the picture below). The core was then cut in half by a sub-contractor (Larsen Exploration Services, of South Porcupine, Ontario) using a wet diamond gasoline saw. Half of the core was placed in a sample bag and the other half was placed as a witness in the core boxes

with a tag for sample number. The core was taken to the core shack for descriptive logging. All lithological, structural, alteration and mineralogical features of the drill core were observed and recorded during the logging procedure into an Excel spreadsheet (1 file with different tabs per hole). All logging is recorded directly to laptop computers using Excel software by Dennis Patron; the senior geologist, Ce Shi, Athraa Koma; the junior geologists and geology students. Completed drill logs and sample tables were routinely backed up to an external hard drive which was also backed up in the Google Drive server of GMEI. (Refer to **Appendix B** for drill logs summary and drill logs)

The core boxes are marked and identified using an aluminum tag. The witness core halves are stored at the GMEI stockyard inside Claim number 4273175. Drill core is kept on-site in an outdoor storage area surrounded by a chain link fence, and is either cross piled or stored in core racks. Core rejects and pulps are stored under lock and key on site.

A total of 1,959 samples from the 28 drill holes of the 2014 drilling program, were collected and were sent to Swastika Labs for preparation and some precious metals sampling, and also to the Laurentian University (ELFRS) lab for multi element analysis.



Picture of 3 core boxes from drill hole CR-2014-02W in the CanREE Prospect after core logging



Core stacking after logging, labeling & cutting, ready to be stored

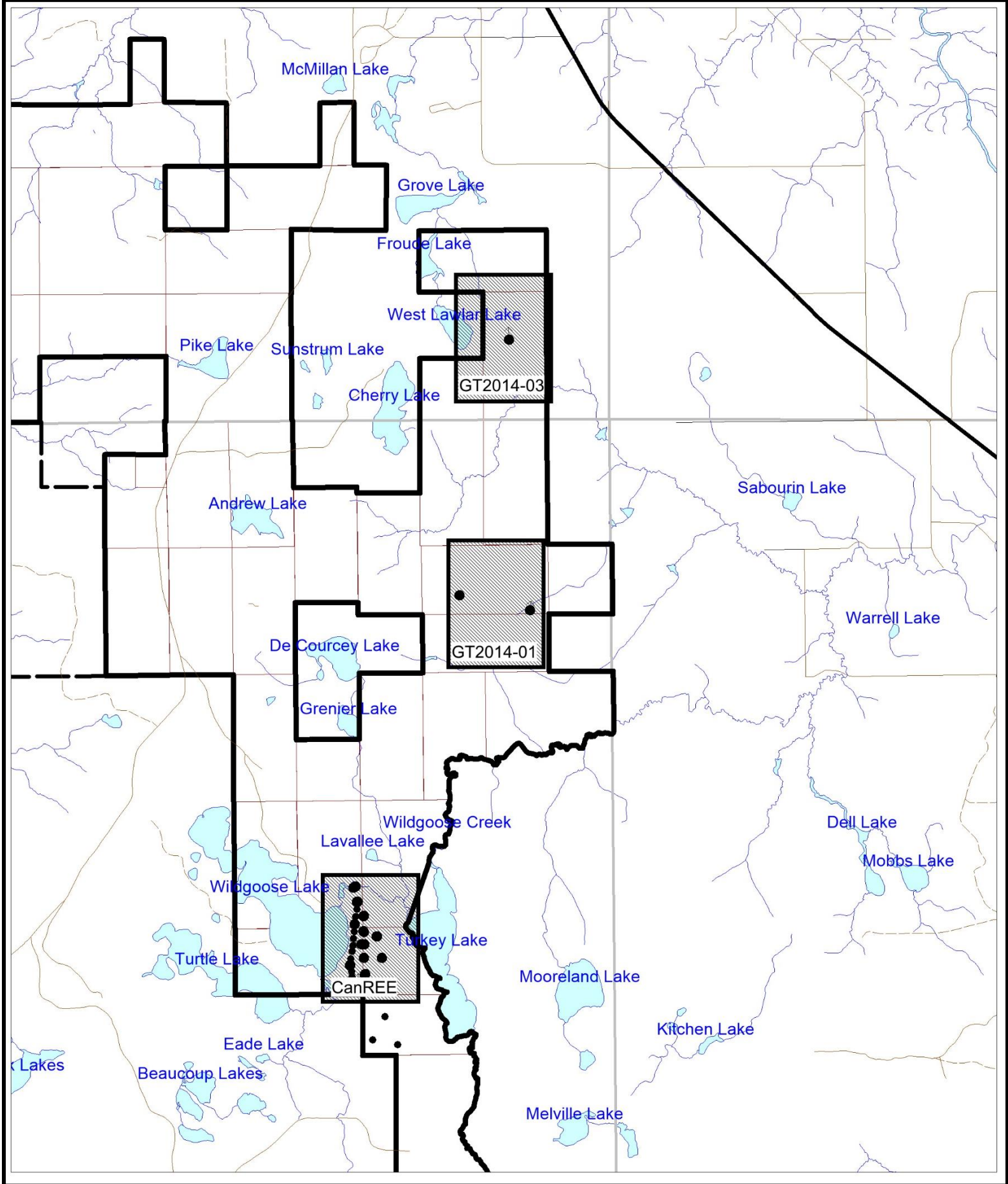


Gasoline diamond core cutter

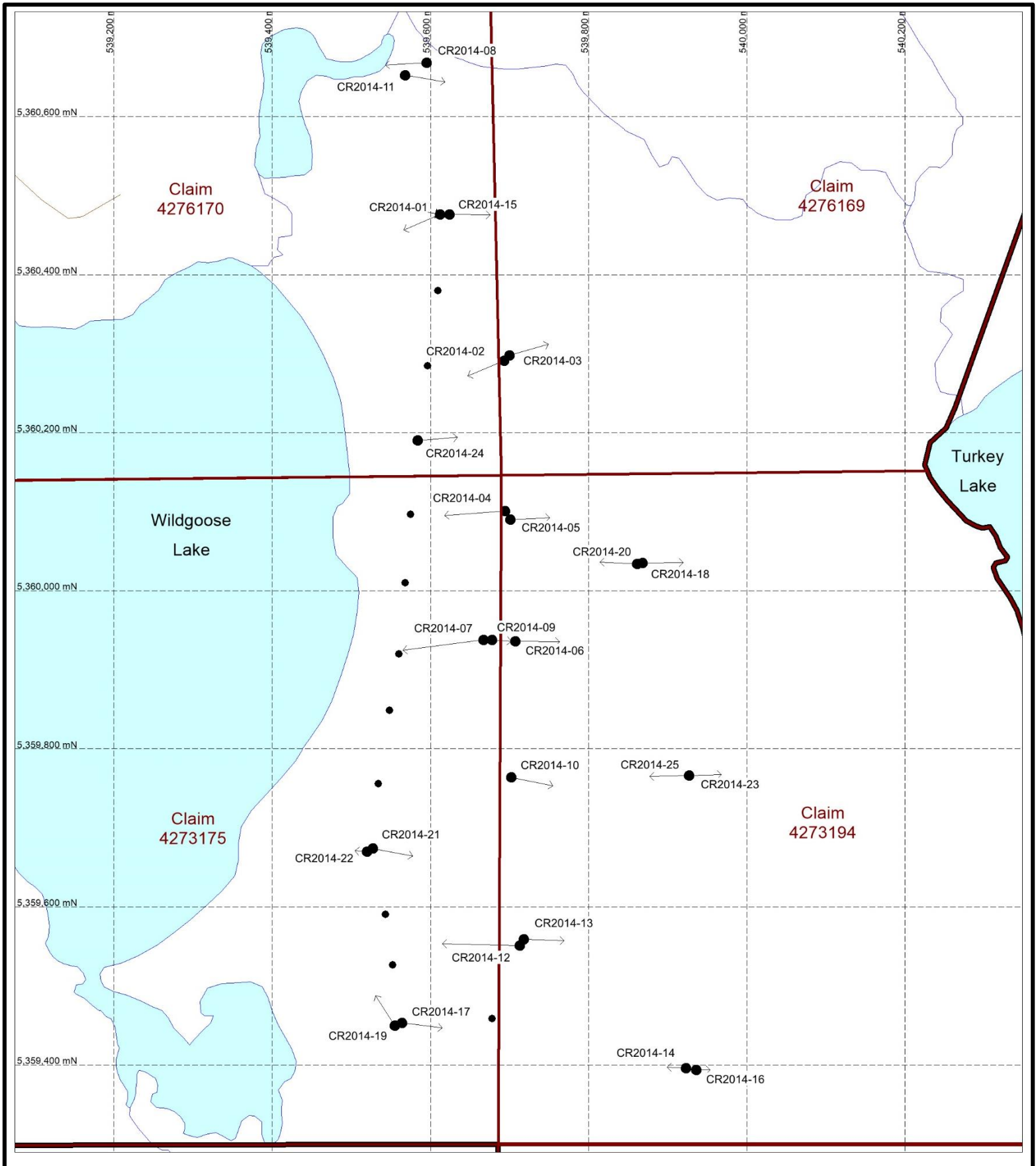
Drillhole Data Summary

Hole Name	NAD 83 UTM Coordinates		Drilling Schedule		Elevation (m)	Azimuth (deg)	Dip (deg)	Final Depth		Number of samples
	Easting	Northing	Start	Finish				(ft)	(m)	
CR2014-01	539612 E	5360476 N	July 18, 2014	July 22, 2014	352	247	-59.5	327	99.70	89
CR2014-02	539693 E	5360291 N	July 24, 2014	July 31, 2014	369	246.9	-60.9	325.5	99.24	87
CR2014-03	539700 E	5360298 N	August 1, 2014	August 4, 2014	369	74.1	-59.9	335	102.13	95
CR2014-04	539694 E	5360101 N	August 6, 2014	August 11, 2014	380	265.4	-58.4	502	153.05	81
CR2014-05	539701 E	5360090 N	August 16, 2014	August 23, 2014	360	87.2	-59.4	326	99.39	75
CR2014-06	539707 E	5359936 N	August 24, 2014	August 28, 2014	360	90.7	-59.2	367.5	112.04	63
CR2014-07	539667 E	5359938 N	August 29, 2014	September 3, 2014	366	262.5	-58.1	676	206.10	124
CR2014-08	539595 E	5360668 N	September 4, 2014	September 5, 2014	366	267	-59.9	342.5	104.42	77
CR2014-09	539678 E	5359938 N	September 4, 2014	September 5, 2014	366	94.7	-59	157	47.87	42
CR2014-10	539702 E	5359764 N	September 8, 2014	September 9, 2014	360	101.8	-59.1	353	107.62	90
CR2014-11	539568 E	5360652 N	September 5, 2014	September 14, 2014	360	99.3	-57.6	333	101.52	85
CR2014-12	539693 E	5359767 N	September 9, 2014	September 14, 2014	366	271.5	-59.1	644	196.34	61
CR2014-13	539718 E	5359559 N	September 12, 2014	September 15, 2014	366	91.6	-58	334	101.83	84
CR2014-14	539923 E	5359396 N	September 14, 2014	September 16, 2014	366	272.3	-60	155.8	47.50	1
CR2014-15	539624 E	5360476 N	September 15, 2014	September 17, 2014	366	90.6	-59.1	338	103.05	93
CR2014-16	539936 E	5359394 N	September 15, 2014	September 17, 2014	366	90	-60	116	35.37	0
CR2014-17	539564 E	5359453 N	September 18, 2014	September 20, 2014	360	96.7	-59.4	338	103.05	69
CR2014-18	539868 E	5360035 N	September 17, 2014	September 19, 2014	366	89.2	-59.6	338	103.05	87
CR2014-19	539555 E	5359450 N	September 20, 2014	September 21, 2014	360	327.1	-58.8	295	89.94	71
CR2014-20	539861 E	5360034 N	September 19, 2014	September 22, 2014	366	273.1	-56.6	308.12	93.94	69
CR2014-21	539527 E	5359674 N	September 21, 2014	September 23, 2014	366	100.6	-58.3	336	102.44	89
CR2014-22	539520 E	5359670 N	September 23, 2014	September 23, 2014	366	273.2	-59.7	100	30.49	17
CR2014-23	539927 E	5359766 N	September 26, 2014	September 27, 2014	366	88.2	-57.9	268	81.71	50
CR2014-24	539584 E	5360190 N	September 25, 2014	September 27, 2014	366	85.5	-59.6	329	100.30	83
CR2014-25	539927 E	5359766 N	September 27, 2014	September 28, 2014	366	269.3	-59.3	329	100.30	76
GT2014-01	541800 E	5364161 N	September 30, 2014	October 8, 2014	324	5.1	-50.2	756	230.49	198
GT2014-02	540906 E	5364348 N	October 7, 2014	October 15, 2014	365	0	-60	57	17.38	0
GT2014-03	541533 E	5367578 N	October 23, 2014	November 6, 2014	303	358	-59.7	1,038.70	316.60	258
Note: # of samples includes the standard and blanks.								10,125.12	3,086.85	2214

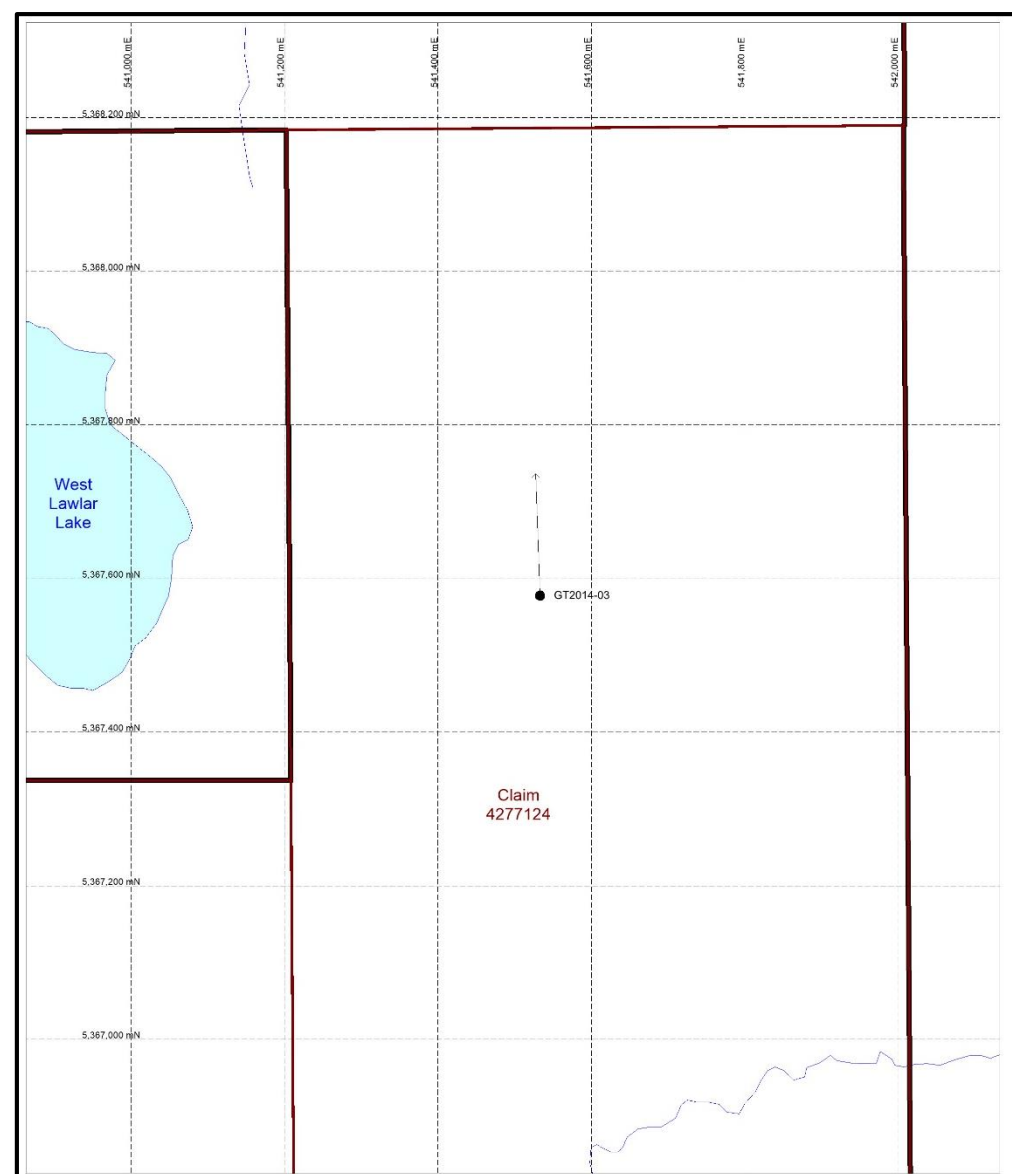
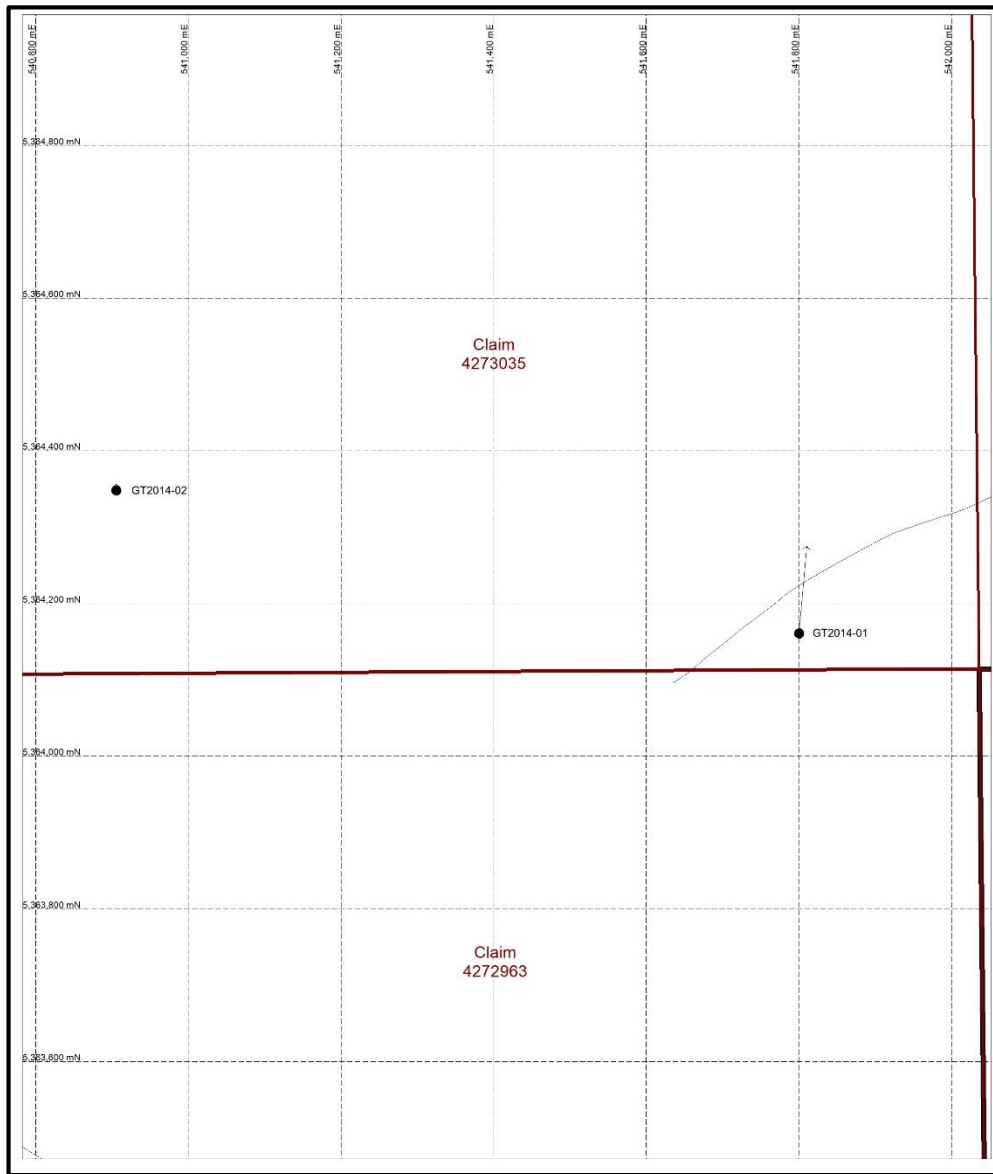
Table 6: Showing all holes drilled in 2014 within the CanREE (CR) and the Golden Target (GT) Prospects. It also shows other information, like the period date of drilling each hole, azimuth, dip, length and samples. Refer to **Appendix B** for drill logs



Map 18: Map showing locations of all drill holes drilled during the 2014 exploration program in the Bow-Mac Project within the two prospects (CanREE & Golden Target). The black dots represent drill holes, black lines show GMEI claims and the grey shaded boxes locations of the two prospects



Map 19: Drill hole locations within the CanREE Prospect in 2014. The larger black dots are drill hole collars, the arrows indicate the length and direction of each hole



Map 20: Map showing the three drill holes within the Golden Target Prospect in 2014. The map on the left shows the collar for drill hole 1 & 2 and on the left shows the collar for the third drill hole. The arrows again represent the length and direction of each hole

Assays:

All of the 2214 samples from the 2014 drilling program, were delivered to Swastika laboratory in Swastika, Ontario. There were a number of chip and channel samples sent in as well. The Swastika lab performed the sample preparation on all of the samples from the 2014 season. This lab performed some fire assay analysis for gold. *See **Appendix F** for Swastika Lab Fire Assay results. However, the majority of the samples were first prepared at Swastika labs, then the pulps securely delivered to Laurentian University in Sudbury, Ontario at their Elliot Lake Research Field Station Lab (“ELRFS”) for multi-element analysis by 3 acid digest with ICP-MS finish, in order to determine the extent of REE mineralization.

GMEI Sample Preparation and Subsequent Laboratory Analyses

Samples are defined by the geologist based on geological units and mineralization. The sampling interval is set at 1.2 m intervals except on the prospective zones which were designed to have 1 meter sampling interval. Few samples exceed 1.2m. Sample lengths exceeding 1.2 meters usually occurred in the syenite units. The sampling length of 1.2m was set arbitrarily in order to have enough “resolution for modeling” and save on assay cost.

Once the logging was complete the samples were sawn in half lengthwise. One-half of the drill core was placed in a plastic sample bag with a sample tag and the other half was returned to its original position in the core box with the corresponding tag. For each sample interval, the tag was placed at the end of the sample’s length in the box.

Samples of the 2014 drilling and exploration campaign were shipped to Swastika Laboratories Ltd. (“Swastika Labs”) for sample preparation and in some cases for fire assay analysis. Analytical work was carried out at Laurentian University in Sudbury, Ontario by the Elliot Lake Research Field Station (ELRFS) for multi-element analysis, using three acid digest with ICP-MS analysis method.

Sample Preparation Protocol

The core is sampled by GMEI personnel and sent to Swastika Laboratories. The sampling is submitted to the following sample preparation protocol:

1. Core is marked up into sample lengths and the cut line indicated on the core;
2. Core is cut into half core using a core saw;
3. One half sent to the laboratory and the other half kept in the original core box for future references;
4. At Swastika Laboratory the samples are dried and crushed to approximately six (6) mesh;

5. A Jones riffle splitter is used to take a 400g sub sample for pulverizing and the reject portion is bagged and stored;
6. After reducing the 400 g sample to 80% passing 100 mesh, the sample is thoroughly blended and a 29.17g portion (one assay ton) is used for further multi element analysis.

Analytical Techniques taken from ELRFS internal protocol methods:

Multi-Acid Digestion Method for Silicates

This method is intended for the near-complete digestion of crushed silicate materials such as ore, soil and sediment samples for analysis of elemental content of the resultant solutions by either ICP-AES or ICP-MS or reporting total values of metals. Samples must be dried, crushed and homogenized prior to the digestion process.

1. Weigh out 0.5g +/- 0.02g of sample into 50mL flat bottomed digestion tubes. For every 25 samples include a method blank, a sample duplicate and appropriate certified reference materials.
2. Add 9mL of Hydrofluoric acid (c) and 1mL of Hydrochloric acid to the digestion tubes. Use Trace Grade acids.
3. Place the open digestion tubes in digestion blocks; heat the samples to dryness at 110°C. 30 minute ramp from room temperature and hold for 210 minutes. Allow to cool to room temperature.
4. Repeat steps 2 & 3.
5. Add 7.5mL of Hydrochloric acid (c) and 7.5mL of conc. Nitric acid (c) to the digestion tubes. Use Trace Grade acids.
6. Heat the samples in the open digestion to dryness at 110°C following a 30 minute ramp) for 240 minutes. Allow to cool to room temperature.
7. Add 0.5mL of Hydrofluoric acid (c) , 2mL of conc. Hydrochloric acid (c) and 10mL of conc. Nitric acid (c) to the digestion tubes. Use Trace Grade acids.
8. Heat the samples in open tubes at 110°C following a 30 minute ramp for 60 minutes. Allow to cool to room temperature. There will be approximately 8mL +/- 1mL remaining.
9. Top up all digestion tubes to 50mL with 18.3MΩ nanopure water. Cap with Teflon lids tightly until analysis.

10. Dilute 1:10 with 18.3M Ω nanopure water immediately prior to analysis by ICP-MS. This gives a total dilution factor of 1000.

Analysis by Inductively Coupled Plasma Mass Spectrometry

The ELRFS utilizes a Varian 810 quadrupole ICP-MS with an SPS-3 autosampler for the routine analyses of waters, estimation of bioavailable nutrient concentrations in extractant solutions and quantification of elements in plant and silicate digests. The routine sample run sequence is composed of the calibration standards followed by 25 samples, QC samples including Method Blank and CRM's and a set of spikes at concentrations of 10 and 100 ug/L for all elements and 10000 ug/L for Al, Ca, Fe, K, Mg, Na & P. Calibration standards are re-run approximately every 60 samples or 80 samples including QC.

Assay results published in this report

The certified assay results issued to GMEI from ELRFS, for the 2214 samples, from the 2014 season sampling program, have recently been confirmed to be erroneous, through check assay programs performed by GMEI through SGS Mineral Services Canada, also by two third party companies using ALS labs in Vancouver, and by the ELRFS lab themselves. Resulting resource estimate calculations have recently been fully rescinded by GMEI and the Company QP as a result. The ELRFS lab has therefore re-issued new assay certificates because of the lab errors. Both sets of assay certificates are presented in this report for reference.

Note: Assay results not described in the core logs due to ELRFS erroneous assay certificates.

*See **Appendix D** – Original Certified Assays issued by ELRFS

*See **Appendix E** – Revised Certified Assays issued by ELRFS

A complete re-assay program of the entire 2014 sample batch is being initiated by GMEI due to the ELRFS erroneous assay certificates. ELRFS has indicated that they will also be conducting a re-assay program of 25% of the samples to determine the extent of the errors.

Remote Camp build, mobilization and demobilization:

A fully operational remote camp was erected at the beginning of the 2014 season, as a residence for the food and lodging of all the GMEI staff, consultants, Geologists, student Geologists and drillers. The camp was also used to house a core logging shack, core storage facility and prospector tent for the Geologists. Travel trailers and tents were used as lodging and all food, water and meals were prepared on-site by the GMEI camp staff. The camp was in a new larger location than that of the 2013 season, but was still located on claim 4273175. Aside from water pumped from lake, all daily food and supplies had to be hauled in by pick-up truck. Outhouse facilities were built on-site as per MNR regulations.

The remote camp was then fully demobilized at the end of the season for winter, and the advent of the new in-town camp proposed for the 2015 season in Ramore, Ontario.





Appendix A

Detailed Work Charts

This Appendix contains:

- Base camp and other related claims assessment work credits – The chart explains the work done in each claim, the date the work was done, the workers, the total hours of each worker daily, the claim numbers and the work areas.
- All geological and exploration activities that qualify for these credits.
- Note that GMEI supplied all food and lodging for the GMEI staff, drilling contractors, Geologists, core cutters, and all consultants during their time at the remote camp.
- GMEI also supplied all of the diesel for the drills and other equipment, aside from the contract linear drilling meterage rate.

Note to refer to the following:

Maps (6 and 7) which show the location of **work areas 1 to 5** in the CanREE and the Golden Target Prospects.

Tables (2 and 3) which contain names of workers, drillers and helpers along with their codes used in the assessment work credit charts.

Note: Sections in red ink are not included in these work credits. For reference of work only.

Base Camp & Related Claims Assessment Work Credits

Date	Workers	Hours	Work for Claim Number	Work Area	Results & Explanations
May 23, 2014	FD JN	8 6	-	-	JN & FD worked in <i>Victoria Harbour</i> to prepare gear for the first trip to the camp. JN worked on 2013 CAN AM repair. FD supervised and prepared gear.
May 24, 2014	FD JN	9 9	-	-	JN & FD finished repairing Can am and started loading gear in the main trailer.
May 25, 2014	FD JN	8 8	-	-	Shopping for camp equipment and safety gear, load more things in the truck and the trailers.
May 26, 2014	FD JN	8 8	-	-	Finish loading gear and equipment into the trailers and the truck, load the 2007 ATV in the back of the truck
May 27, 2014	FD JN	13.5 13.5	4273175	1, 2, 3	Travel from <i>Victoria Harbour</i> to camp site and set up the trailer for the night.
May 28, 2014	FD JN	10 10	4273175	1, 2, 3	Set up temporary mining camp in the area used as base camp previous year. Set and level travel trailer. Unload 2007 ATV from truck. Unload gear from trailers. Unlock & load shed on claim line. Set up screened area. (tent) Set up generators. Set up cell tower. Check dock & scout out new camp zones. FD (8), JN (6)
May 29, 2014	FD JN	12 12	4273175	1	Drive to Timmins from camp for Mining Expo & Aboriginal forum, for signing of the MOU with Matachewan First Nation & WABUN Council. Drive Back home to <i>Victoria Harbour</i> .
June 3, 2014	FD JN	10 10	4273175		Travel to mining camp from <i>Victoria Harbour</i> with a load of gear and equipment.
June 4, 2014	FD JN	15 15	4273175	1	Unload truck / ATV / boat/ gear. Start cutting trail wider to fit ATV & trailer up to shed, chain saw work, and machete/ATV.
June 5, 2014	FD JN	6.5 6.5	4273175	1	FD drove in pick-up truck to <i>Bracebridge</i> to buy and transport back a travel trailer for student geologists. JN cut roads wider coming into camp that grew in or fell in over winter (4km of sporadic clearing)
June 6, 2014	FD JN	6 6	4273175	1, 3	Chain saw and machete work to widen trail down to new camp location. (ATV/shovels/chainsaw/machetes)
June 7, 2014	FD JN	7.5 7.5	4273175	1, 3	Chain saw and machete work to widen trail down to new camp location. (ATV/shovels/chainsaw/machetes)
June 9, 2014	FD JN	7 7	4273175	1, 3	Chain saw and machete work to widen trail down to new camp location. (ATV/shovels/chainsaw/machetes)
June 10, 2014	FD JN	7.5 7.5	4273175	1	Start to cut in new camp area (30M x 30M)/cut trees /shrubs/under brush. Then pile logs & branches to sides.
June 11, 2014	FD JN	8.5 8.5	4273175	1, 3	FD picked up Backhoe in <i>Matheson</i> and transport to camp. FD fixed bad spots on road on way back into camp with Backhoe (4km). JN finished picking up brush and log cutting at new camp area. FD & JN cut high branches and cleared more trees down trail from old camp to new camp.

June 12, 2014	FD JN	8.5 8.5	4273175	1, 3	FD did backhoe work on trail from old camp to new camp & turn around. FD cleared and leveled first half of new camp with backhoe.
June 13, 2014	FD JN	10 10	4273175	1	FD tree cutting at new camp area, clearing for both trailer sites/second half. FD did backhoe work from to clear stumps & Moss & level area down to sand. JN cleared brush & moved firewood/logs.
June 14, 2014	FD JN	7 7	4273175	1	FD & JN drove in to <i>Matheson</i> to buy lumber/materials & supplies to build outhouse & wheel bases for trailers. Cut 2 x 10 wheel Bases/Tire blocks & pads for jacks on trailers then cleaned up tools.
June 15, 2014	FD	6.5	4273175	1	FD built one outhouse & cleaned up tools and scraps.
June 16, 2014	FD JN	8 8	4273175	1, 3	FD & JN install outhouse to new area. Take temp camp down and move it to new camp area. Haul 19ft trailer & other trailers/equipment to new camp area.
June 17, 2014	FD JN	5 5	4273175	1, 3	FD & JN finish packing and moving old camp to new area. Move 31 ft. Coleman trailer to new area. FD and JN drive home to <i>Victoria Harbour</i> for one week.
June 24, 2014	FD JN DP	7, 3.5 7, 3.5 7, 3.5	4273175	1	FD, JN & DP traveled to mining camp from <i>Victoria Harbour</i> . Cut trees/backhoe front area of main office trailer to fit into the spot. Set the Main Office/coreshack & Geologist trailer in place and leveled them.
June 25, 2014	FD JN DP	15 15 15	4273175	1	FD, JN & DP cut trail to lake for water pump. Cut more trees/backhoe front of camp area. Dig two grey water pits. Dig and place stones for fire pit. Level Geologist student trailer. Finish setting up all trailers. Walk outcrop lines to show DP and JN the CanREE. Re fuel backhoe and generator. Set up screen tent. Move and organize tools in utility trailers. Spray & fog camp for insect control.
June 26, 2014	FD JN DP	15 8 9	4273175	1	FD picks up core boxes & fuel & unloads, then returns to <i>Matheson</i> to buy deck wood & Food. After Unloading, FD & DP build half of the deck for front of trailer for kitchen area. FD and DP plan CanREE drilling core locations, SGS thin sections/drillers, etc.
June 27, 2014	FD	6.5	4273175	1	FD travelled to <i>Matheson</i> to get lumber and water drums. FD finished building kitchen deck & shower platform.
June 28, 2014	FD JN DP	10 9 9	4273175, 4273194, 4276170, 4276169	1	FD travelled to home to <i>Victoria Harbour</i> to pick up ND, paperwork and do mining expenses. DP & JN prospecting and mapping on the east side of CanREE
June 29, 2014	FD ND DP JN	12 12 7 7	4273175	1	DP & JN finish east side of CanREE outcrop prospecting. FD, ND, & EB travel to mining camp from home in <i>Victoria Harbour</i> , with a truck load of gear & supplies.
June 30, 2014	FD ND EB HH	9 9 6 6	4273175	1, 3	ND & EB travel to Timmins to buy supplies and pick up geology student HH. FD did backhoe work to repair road coming into camp.
July 1, 2014	FD JN DP	2, 7 7 7	4273175, 4273034, 4273034,	1, 5	JN, DP, HH, EB prospect access zones for golden target on two ATV's. FD & ND cooked for everyone and continued camp setup.

	ND EB HH	2, 7 4 7	4273033, 4277124, 4274039		
July 2, 2014	FD JN DP ND HH EB	13.5 7 7 10 7 8	4273175, 4273194	1, 4	FD drove to Swastika labs to pick up supplies for core drilling. FD drove to <i>Kirkland Lake</i> for Geo supplies. FD drove to <i>Haileybury</i> to "Time Drilling" for supplies. FD drove to North Bay to pick-up core shack trailer. FD drove back to camp towing core shack trailer. DP, JN, HH did prospecting of outcrops on claims 4273175 & 4273194. JN did equipment oil changes and added water to trailer tanks. ND was cooking and doing camp maintenance.
July 3, 2014	FD JN DP ND EB HH	7 7 7 7 7 9	4273175, 4273194	1, 4	FD, JN & EB painted core shack exterior, did repairs on the interior and then leveled it. DP & HH did prospecting on claims 4273175 & 4273194. ND went into <i>Matheson</i> on a supply run and to do camp laundry.
July 4, 2014	FD JN DP ND EB HH	12 7 8 10 8 8	4273175, 4273194, 4276170, 4276169	1, 4	ND went into <i>Matheson</i> for more supplies on return did cooking. FD worked on the Core shack repairs and interior build. JN set up 2 inch water pump and ran hoses to lake for camp. JN & EB created a trail to the lake & helped with core shack repairs. JN changed oil in camp generator equipment. DP & HH prospected on claims 4276170 & 4276169. DP & HH located and spotted drill holes on CanREE prospect.
July 5, 2014	FD JN DP ND EB HH	12.5 9 9 11 6 9	4273175, 4273194, 4276170, 4276169	1, 4	FD finished core shack build. FD cut trees behind core shack area. FD filled trailers with water & did garbage and recycling. FD changed propane tanks for trailers. JN & EB finished cutting trails to lake and water pump, then set up outside shower, generator for the core shack & collected camp fire wood. DP & HH did prospecting in CanREE. ND was cooking and doing camp maintenance.
July 6, 2014	FD JN DP ND EB HH SE	8 8 9 10.5 7 9 4.5	4273175, 4273194, 4276170, 4276169	1, 4	FD & JN built cookhouse enclosure. JN & EB cleared logs & brush from core rack secure storage area (14mx14m). JN & EB cut brush down off of tree near camp & pumped water from the lake into drums. DP & HH finished spotting final drill holes & marking foresights on CanREE to get ready for line cutters and drillers. ND & SE were cooking and doing camp maintenance.
July 7, 2014	FD ND SE	10 10 10	4273175	1	FD & ND travelled to <i>Matheson</i> for supplies, diesel fuel, gasoline & propane tanks filled. SE cooked and did camp maintenance.
July 8, 2014	FD DP ND EB HH SE	17 8 11 8 8 11	4273175, 4273194, 4276170, 4276169	1, 4	FD finished water pump system build/outside shower for staff. FD did computer mapping. DP & HH prospecting on claim 4276169 & 4276170. EB did camp cleanup and organization. ND & SE travelled to Timmins for supplies and gear, then camp cooking upon return.

July 9, 2014	FD DP ND HH SE CG JB	10 8 10 8 4 8 8	4273175, 4273194, 4276170, 4276169	1, 4	FD did backhoe work on core rack/storage/entrance to drill line area. JB line cutters cut from ATV trail to corner of claim line & up about 40m. DP, HH trained CG on prospecting techniques and finished spotting final CanREE drill zones. ND & SE did camp cooking and maintenance.
July 10, 2014	FD DP ND EB HH SE CG JB	8, 4 9 7 9 9 5 9 9.5	4273175, 4273036	1, 5	FD worked on screened in kitchen enclosure/supervise JB line cutters. DP, HH, CG & EB prospected claim 4273036. ND & SE did camp cooking and maintenance.
July 11, 2014	FD DP ND EB HH SE CG JB	12 9 11 7 9 11 9 9.5	4273175,	1	FD did backhoe work with JB line cutters. DP, HH, & CG reflagged drill line for line cutters 1.4 km along ridge. DP, HH, CG & EB located access trails into central claims. ND & SE travelled to <i>Matheson</i> to pick up propane fridge and other camp supplies for kitchen. ND & SE did camp cooking and maintenance. ND drove HH & DP to <i>Matheson</i> bus station for time off.
July 12, 2014	FD ND SE JB	10 7 7 9.5	4273175, 4273194, 4276170, 4276169	1, 4	FD did backhoe work with JB line cutters. ND & SE did camp cooking and maintenance, put up screen tent did camp clean up, also cleaned the geologist and geology student's trailers.
July 13, 2014	FD ND EB SE JB	3, 8 11 3 5 9.5	4273175, 4273194, 4276170, 4276169	1, 4	EB brought in JB line cutters by ATV. FD to meet backhoe tire repair guy and bring him to backhoe in bush to repair burst tire. FD then did backhoe work to first drill hole. FD finished building screen doors/pump water to drums /put tools away. ND drove to Timmins to pick up new student geologist Ce Shi. SE did camp cooking & camp maintenance.
July 14, 2014	FD DP ND EB SE CG JB CS BEK	12 7 12 9 9 7 10 7 6	4273175, 4273194, 4276170, 4276169	1, 4	DP drove back to camp today from home. FD met with excavator guy (Lougheed Trucking) he contracted to complete and clear the first drill lines for CanREE in advance of drillers arrival. FD helped to clear debris/logs/behind excavator with brush axe then pack down with ATV by driving over it repeatedly. FD drove JB line cutters out on ATV. ND, SE, & EB went to Timmins for supplies and to pick up new geologist student BEK. BEK's mom became sick at home so ND had to drive BEK back to Timmins that evening so he could fly back home again. CG & CS walked drill lines in CanREE to orient CS from south to north & back to camp. ND & SE did camp cooking and maintenance.
July 15, 2014	FD DP ND EB	10.5 8 10 10.5	4273175, 4273194, 4276170, 4276169	1, 4	JB line cutters day 7. FD, EB & CG line cutting from ATV trail to within 24 meters of drill spot to gain access to north end of CanREE. DP & CS map the line cut road after backhoe and excavator, and prospect exposed rock outcrop from ATV trail to drill hole 6. ND & SE camp cooking and maintenance.

	SE CG JB CS	10 10.5 9 8			
July 16, 2014	FD DP ND EB SE CG JB CS	9 8 11 8 11 8 9 8	4273175, 4273194, 4276170, 4276169	1, 4	JB line cutters day 8. FD doing backhoe work from camp down ATV trail to north line into CanREE. Then met the drilling contractor for their arrival with their equipment at the entrance to Granite Road, & guided them into camp. Unload the drill rig and equipment and haul into mining camp from Davis Lake Road. EB, CS, & CG cleared brush, logs etc. from the north line. FD also cleared line at North end after line cutters. ND & SE did camp cooking and maintenance.
July 17, 2014	FD DP ND EB SE CG CS SB P, J	3.5, 8 9 12 9 12 9 9 7 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273036	1, 4, 5	FD helped drillers P & J with their camp trailer and camp set up, water pump install, cut trees to get drill rig into first hole location, diesel tank and drill rods hauled in FD's truck. EB, CS, DP & CG prospected central claims access zones. ND, SE & SB did camp cooking and maintenance.
July 18, 2014	FD DP ND SE CG CS SB P, J	11 9 13 13 9 9 2 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273036	1, 4, 5	FD helped drillers P & J setup and did the backhoe work widening road from camp to north line & across north line of CanREE access. DP spotted drill hole locations & foresights for CanREE. ND, SE & SB did camp cooking and maintenance.
July 19, 2014	FD DP ND SE CS SB EB P, J	10 8.5 14 14 8.5 3 6 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & J still on drill hole 1, they filled eight boxes of core. FD helped P & J with diesel, also built core rack and display for outside of core shack. FD hauled core out of the bush with ATV. FD did backhoe work widening the road and fixing road for next drill hole. FD & EB built corduroy roads in bad spots to drill area. DP and CS were core logging. ND, SE & SB did camp cooking and maintenance.
July 20, 2014	FD DP ND SE CS SB EB P, J	11 8.5 15 15 8.5 6 6 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & J still on drill hole 1, they filled six boxes of core. FD helped drillers with diesel and hauling core out of the bush then finished building core rack. EB, SE & SB left to travel home today. DP & CS were core logging. ND did camp cooking and maintenance.

July 21, 2014	FD DP ND CG CS P, J	11 9 11.5 8.5 8.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124	1, 4, 5	Drillers P & J still on drill hole 1. FD helped drillers with diesel and hauling out core. FD drove ATV with CS & CG to golden target to show them the area. CS & CG prospect grid on 4277124. DP did core logging. ND did camp cooking and maintenance.
July 22, 2014	FD DP ND CG CS P, J	12 10.5 12 11 11 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124	1, 4, 5	Drillers P & J still on drill hole 1, finished hole & did reflex down hole survey. FD & DP drove to Timmins to get down hole survey tool. Also had to get camp supplies. FD helped drillers haul core out of the bush. Filled water drums for trailers and met flatbed at granite road with more equipment for the drillers. (ATV/tools/supplies) DP did core logging. CS & CG prospected on 4277124. ND did camp cooking and maintenance.
July 23, 2014	FD ND CG CS P, J	9.5 9.5 8 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & J set up for drill hole 2. FD & ND traveled home for the weekend. CS did core logging. CG did camp cooking and maintenance.
July 24, 2014	DP CS CG P, J	9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & J still on drill hole 2. DP & CS core logging. CG did camp cooking and maintenance.
July 25, 2014	DP CS CG P, J	10 10 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & J still on drill hole 2. DP & CS core logging. CG did camp cooking and maintenance.
July 26, 2014	FD ND SB DP CS CG	9 9 4 9 9 9	4273175, 4273194, 4276170, 4276169	1, 4	FD, ND & SB traveled back to camp from home. DP & CS did core logging. CG did camp cooking and maintenance.
July 27, 2014	FD ND SB DP CS CG	12 12 5 6 6 5	4273175, 4273194, 4276170, 4276169	1, 4	Driller G arrived today. FD built tent camp area, fixed shower pump, fill water in the trailers, camp clean up and organize. CG helped clean and organize camp by collecting and burning brush. ND & SB did camp cooking and maintenance, also did a supply run to <i>Matheson</i> . DP & CS drove home for time off.
July 28, 2014	FD ND SB CG G	11.5 12.5 12.5 8.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4, 5	Driller G helped out at camp as drill is not running. FD explored golden target area on the ATV to gain access for our drill when needed. FD did oil change on ATV & greased and cleaned backhoe for return. CG cleared brush and trees at front to lake. ND & SB did supply run to Timmins and also picked up two new geology students AK & KF. ND & SB did camp cooking and maintenance.

July 29, 2014	FD ND SB DP CG DL JB P, G	11.5 11.5 7 6 9 Core Cutter 9.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Driller G helped out at camp as drill is not running. Driller P returned in the evening. DP also returned in the evening. DL core cutter arrived today. DL and FD set up his trailer for core cutting. FD also had to do backhoe work to fit in DL's trailer. CG set up area for prospector tent. FD met Vic's fabrications to guide them into camp with a load of new empty core boxes. FD flagged trees for removal around drill sites for JB line cutters. ND & SB did a garbage dump & propane run to <i>Matheson</i> , also did camp cooking and maintenance.
July 30, 2014	FD ND SB DP CG AK KF DL JB P, G	12 11.5 8 11 11 11 11 Core Cutter 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277123	1, 4, 5	Drillers P & G drilled forty meters of core. FD, DP, CG, AK & KF went to golden target on ATV's to be shown access points & plan prospecting. FD showed JB line cutters what needed to be finished. FD cleaned up drill zones and line to hole at north drill hole. DP did core logging and wrote up protocols for core logging. CG, AK & KF did grid mapping and sampling of outcrops on 4277123. DL cut 9 boxes of core. ND traveled into <i>Matheson</i> for supplies and propane. SB did camp cooking and maintenance and burned brush.
July 31, 2014	FD ND SB DP CG AK KF DL JB P, G	11 11 9 8 10 8 8 Core Cutter 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & G finished hole 2 and spun the drill around to drill hole 3. DL finished core cutting hole 1. FD filled all fuel cans with diesel for drillers. FD met rental excavator in <i>Matheson</i> to guide into camp. FD had to pull McDougal fuel out with excavator as they were stuck. FD helped drillers set up for hole 3. DP, AK & KF did core logging & down hole survey on hole 2. CG cleaned up tree logs and brush around camp also helped the drillers clear area for drill hole 3. ND drove to <i>Matheson</i> for supplies also went on ATV to Davis lake road to meet McDougall fuel to guide them in. SB did camp cooking and maintenance.
August 1, 2014	FD ND SB DP CG AK KF DL JB P, G	12 12 11 9 7 9 9 Core Cutter 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 2, 4	Drillers P & G on drill hole 3. FD helped clear 3rd drill hole area with excavator. DP, AK & KF did core logging. ND & SB took first load of drill core samples to Swastika lab, did a supply run and camp laundry. ND & SB did camp cooking and maintenance. DL continued core cutting. The cut core boxes were piled and stored in the core storage area.
August 2, 2014	FD ND SB DP CG AK KF DL P, G	5 11 11 8.5 10 10 10 Core Cutter Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 2, 4	Drillers P & G continue to drill hole 3. FD met with the drillers to discuss drill strategy and timing. DP did core logging. CG, AK & KF did grid mapping, flagging and prospecting. DL did core cutting. ND & SB did camp cooking and maintenance.

August 3, 2014	FD ND SB DP CS AK KF P, G	5 12 12 9 9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 4	Drillers P & D drilling hole 3. FD drove to town to pick up repair pipe for the drill. PD, AK & KF did core logging. CS transferred the data from field work exploration in the paper map.
August 4, 2014	FD ND SB DP CS AK KF DL SE RB EB P, G	11.5 13 13 9 8.5 8.5 8.5 Core Cutter 5 5 5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 2, 3, 4, 5	DL cut 100 meters of core then stored in the storage area. FD backhoe work to fix the road between temporary camp and base camp. FD also fixed behind the core cutter trailer. FD then helped the drillers move the drill to the 4 th hole with excavator. Drillers P and G moved the drill and the equipment to drill hole 4. DP logged core and did some reports and paperwork. CS, AK, KF grid mapping and prospecting in work area 5 (claim 4273033). SB & ND cooking and camp maintenance. SE picked up RB and EB from Victoria Harbour and drove to mining camp.
August 5, 2014	FD ND SB DP CS CG AK KF DL SE RB EB P, G	11.5 11.5 14 10.5 8 8 8 8 Core Cutter 2 8 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 2, 4, 5	DL cut 50 meters of core then stored them in the storage area. P and G start drilling hole number 4. FD drove the backhoe to Davis Lake Road for return float. FD did camp clean up, burn wood, ATV repair and battery changing in the shower unit. DP and AK did core logging. DP also met with the drillers to align the drill on hole # 4. CG and RB flagged, prospected and did two grid maps in 4273033. CS, KF and EB flagged, prospected and mapped 1 grid line in 4273033. ND, SB and SE did cooking and camp maintenance.
August 6, 2014	FD ND SB DP CS AK KF SE RB EB P	11 12 16 8 10.5 10.5 10.5 3 8 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	FD add new shelving to the core rack for chip sample viewing. Fix up the road from camp to the drill site. Broaden the drill site with the excavator. P drilling hole 4 with the help of CG. DP, RB and EB did line cutting and mapping. CS, AK and KF did mapping and sampling. ND, SD and SE did cooking and camp maintenance
August 7, 2014	FD ND SB DP CS CG AK KF	12 12 16 9 9 9 9 9	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	P and C continue to drill hole 4. FD fixed drill site with the excavator to prepare hole 5, 6 and 7 for the drillers. DP, AK and KF did core logging. CS and EB did sampling and mapping in 4273033. CG and RB did line cutting and flagging new drill spot in the CanREE. ND, SB and SE did cooking and camp maintenance

	SE RB EB P, C	4 9 9 Drillers & Helpers			
August 8, 2014	FD ND DP CS CG SE RB EB P, C	10 12 9 9 8 12 8 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 4	P and C continue drilling hole 4. FD delivered driller's lunches to drill sites, organizes the crew and had a meeting with CG, also repaired the black ATV. DP and CS flag and spot a new drill hole in the CanREE. CG and RB did line cutting. NP, SE and EB drove geo students SB, AK and KF to Timmin's airport to go home, bought groceries and camp supplies and did cooking.
August 9 2014	FD ND DP CS CG SE RB EB P, C	10 12 9 8 7 12 10 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4273034	1, 4, 5	P and C continued drilling hole 4. FD and RB did line cutting, pumped water to the drillers. CS and EB did prospecting in 4273033. CG did grid mapping and sampling in 4273034. DP did core logging and transferring the data from field work into the paper map and the computer files. SE drove to <i>Matheson</i> to buy supplies. ND did cooking and camp maintenance.
August 10, 2014	FD ND CS SE RB EB P, C	5 4 8 7 4 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 3, 4, 5	P & D continued drilling hole #4. FD loaded the truck with drill rods to bring in to the drill site by drill hole #4. FD also brought filled core boxes from the drill site to the camp with his truck. CS & EB did grid mapping and prospecting in 4273033. RB maintained driller's camp trailer, ATVs and helped with the cooking. SE & ND cook and camp maintenance.
August 11, 2014	FD ND CS CG RB SE P, C	12 13 10 11 10 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273034	1, 2, 4, 5	P & C finished drilling hole #4. CS did the downhole survey on hole #4. He also did core logging, helped stack the fire wood and stack previously cut core in the storage area. FD did line cutting on the drill pad area, helped CS with the downhole survey, fix the tire on the red ATV and oil change on the Honda generator. CG prospected 4273034. RB did line cutting with FD, camp clean up and fire wood stacking. ND & SE camp maintenance and cooking.
August 12, 2014	FD ND CS EB SE P, C	11 13 6 6 13 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	Drill broke down, waiting for the mechanic. P & C set up equipment and drill for the next hole. CS & EB did mapping and sampling in 4273033. FD computer and paperwork for billing, and helped drillers with the drill set up and equipment transportation. SE & ND drove to <i>Matheson</i> for groceries and supplies, as well as camp maintenance and cooking.
August 13, 2014	FD ND DP CS RB SE P, C, RO	11 12 9.5 9.5 12 12 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 3, 4	P & C working on fixing the drill with the mechanic RO. DP & CS did core logging, standards preparation and paperwork (report & maps). FD did maintenance on trailers and ATVs; propane change and fixing tire. FD also printed MSDS, health and safety documents, and called DG & NG for an interview. ND & RB drove to town to get supplies, then helped SE with camp maintenance and cooking.
August 14, 2014	FD NP DP	12 13 9	4273175, 4273194,	1, 4, 5	P, C & RO fixed the drill and set up at drill hole #5. CS & EB did prospecting, mapping and sampling in 4273033, CG started prospecting in 4274040. DP did core logging, paperwork and helped align

	CS CG RB EB SE P, C, RO	8 8 8 7 11 Drillers & Helpers	4276170, 4276169, 4273033, 4274040		the drill and set the dipping angle. ND & RB drove to Swastika lab to drop off samples, also picked up supplies and groceries. FD did excavator work on drill pad, fixed truck tire and helped drillers with the rig. SE did the cooking and camp maintenance.
August 15, 2014	FD ND DP CS CG RB EB SE P, C, RO	13 13 9 7.5 9 9 7.5 13 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4277124	1, 4, 5	Drill broke down again; P, C & RO trying to fix it. FD drove to <i>Matheson</i> to fix the truck tire at Danny's garage. FD also drove to Porcupine Canvas to buy the prospecting tent and other geo supplies, then he organized the camp and changed propane tanks. DP did core logging, transferring data on the computer and paperwork. CS & EB did grid mapping on 4273033. CG & RB flagged 4277124. SE & ND camp maintenance and cooking.
August 16, 2014	FD ND DP CS CG DL RB EB SE P, C	6 13 10 11.5 10 Core Cutter 10 10 13 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124	1, 4, 5	P & C started drilling and shortly after 7:00am the drill broke down; drill head needed repair. FD built a roof on the core rack, built a garbage box, plastic on the roof of the outhouse, set up core shack generator, did the orientation tour to the new hire GD and then brush and cleaned up. DP core logging and paperwork, also helped with the camp and core shack stacking. CS & CG flagging and grid mapping 4277124. DL did core cutting. RB camp maintenance, clean up, water pumping and garbage dumping. ND & EB drove to <i>Matheson</i> for laundry and supplies. SE did the cooking.
August 17, 2014	FD ND DP CS CG DL RB EB SE DG P, C	12 13 9 9.5 9.5 Core Cutter 10 9 13 10 Drillers & Helpers	4273175, 4273194, 4273035	1, 2, 4, 5	Drill still down, P & C went to town to pick up the part for the drill repair and their van broke down on the way there, had to go to Danny's garage to get it fixed. DL cut core, stacked it and stored it. DG getting started with camp clean up. FD training DG, setting up the prospecting tent and towed driller's van to <i>Matheson</i> at Danny's. DP & EB did grid mapping and flagging in 4273194. CS & CG flagged and sampled in 4273035. RB did camp maintenance. ND & SE did the cooking.
August 18, 2014	FD ND DP CS CG RB DG P, C	14 12 9 9.5 9 12 10 Drillers & Helpers	4273175, 4273194, 4273035	1, 4, 5	Drill still down. P & C went to Lively & Atlas Corp to get the drill head rebuilt. FD did excavator work at the camp for the prospecting tent and parking area. FD & DG did camp clean up. DP mapped 4273194. CS & CG flagged, mapped and sampled 4273035 where they found the second gold bearing quartz vein. ND & RB drove to Swastika to drop off the samples at the lab, then went to buy supplies for First Nation site visit, then they did the cooking and camp cleaning.
August 19, 2014	FD ND DP CS CG RB DG P	15 13 8 8 8 13 13 Driller	4273175, 4273194, 4276170, 4276169	1, 4	P went to Sudbury for supplier to repair the drill head. FD set up the camp for the First Nation's site visit. FD & RB went to <i>Matheson</i> to pick up First Nation visitors. DP, CS, CG, FD & RB stayed in the camp with the First nation visitors, FD took the visitors to the drill sites to show them around with the ATVs. ND, RB & DG did the cooking and camp cleaning.

August 20, 2014	FD ND DP CS CG RB DG P, C Drillers & Helpers	14 13 9 9.5 8 10 4	4273175, 4273194, 4276170, 4276169, 4273035, 4273033	1, 4, 5	P & C picked up drill supplies in <i>Matheson</i> . Drill is fixed and the drillers drilled 2 boxes of core. FD brought the truck into Danny's to be fixed, picked up the drillers, check on the drillers progress and spoke to drilling contractor about the drill, fix the water pump for the trailers and help DP with the IP Survey from Nebu IP survey report. DP computer work, mapping on paper and more researching geology of the area. CS & CG grid mapping 4273035. RB and ND did the camp maintenance and the cooking. DG worked on camp clean up.
August 21, 2014	FD ND DP CS CG RB DG NG P, C Drillers & Helpers	12 12 9 8 8 10 4 4	4273175, 4273194, 4276170, 4276169, 4273035, 4273034	1, 4, 5	P & C drilled hole # 5. FD paperwork (writing 2 contracts for two new helpers and CS new contract). DP continued researching, mapping on paper, core logging and Nebu IP survey report. CS & CG continue grid mapping and sampling 4273035. ND, RB, DG & NG camp maintenance, clean up and cooking.
August 22, 2014	FD ND DP CS CG RB DG NG DR P, C Drillers & Helpers	7 7 9 9 9 7 13 13 8	4273175, 4273194, 4276170, 4276169, 4273035	1, 4, 5	P & C continued drilling hole #5. FD, ND & RB drove back to Victoria Harbour. DP core logging, paperwork and researching. CS & CG prospected, grid mapping, sampling 4273033. DG & NG did the maintenance, groceries and supply shopping and cooking. DR is the new camp labour, first day today.
August 23, 2014	DP CS CG DG NG DR P, C Drillers & Helpers	98.5 8.5 8.5 13 13 11	4273175, 4273194, 4276170, 4276169, 4273035	1, 4, 5	P & C finished drilling hole # 5. DP core logged and researched about the Golden Target area, monitored the drillers and did the downhole survey in hole #5. CS & CG continued mapping and sampling in 4273035. DG & NG did the camp maintenance and the cooking. DR stacked fire wood and did other camp work.
August 24, 2014	FD SB DP CS CG RB SC DG NG DR DD P, C Drillers & Helpers	9 7 7 8.5 8.5 7 7 13 13 11 7	4273175, 4273194, 4276170, 4276169, 4273035	1, 4, 5	P & C relocated and set up the drill to hole #6. DP helped with relocating the drill, aligned the drill and assigned the dipping angle, then he did core logging and paperwork. CS & CG continued grid mapping and sampling in 4273035, they also spotted 2 possible future drill holes in the Golden Target area. DG helped the drillers with the relocation of the drill, camp maintenance, supply and grocery run. DR did labour work and fire wood stacking. NG did the cooking. FD drove back to the camp with SB, RB and brought two new workers SC and DD.

August 25, 2014	FD 15 SB 8 DP 9 CS 8.5 CG 8.5 WG 5 RB 8 SC 9 DG 14 NG 14 DR 9 DD 9 P, C Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035	1, 4, 5	P & C relocate the drill to hole #7. FD helped relocate the drill with the excavator, clear the trees and brush with SC, DG & DR, computer work and MNR letter. DP did the core logging and drill monitoring; drill aligning, downhole survey and dip angle assigning. CS & CG continued grid mapping and sampling in 4273035. SC, DG & DR did labour work for the drillers, camp work, fixed the framing on the prospector's tent. DG did tree cutting and chain saw work for drill pad 7. WG new geo student arrived into the camp. SB, RB & DD went to <i>Matheson</i> , Timmins and Porcupine for groceries and supply run, then they did the cooking with NG.
August 26, 2014	FD 15 SB 14 DP 9 CS 8.5 FR 5 WG 9 CG 8.5 DL Core Cutter RB 14 SC 6 DG 3 NG 3 DR 3 DD 6 P, C Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035	1, 3, 4, 5	P & C drilled hole 7. DL core cutting. FR new professional geologist arrived to camp. NG left the camp; last day. FD did excavator work on drill pad area, rake the road side for the MNR. DP did the core logging and drill monitoring. CS & CG continued grid mapping and sampling 4273035. SC, DD moved core boxes, logs and did raking. WG did the health & Safety around the camp. DG & DR did the camp maintenance and labour work. SB & RB did the cooking.
August 27, 2014	FD 15 SB 14 DP 9.5 CS 9 FR 9.5 WG 9 CG 9.5 DL Core Cutter RB 14 SC 9 DG 10 DR 10 DD 9 P, C Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035	1, 2, 3, 4, 5	P & C continued drilling hole #7. DL continued core cutting. FD drove to Cochrane to land registration office for Lot 4 & 5 info, then drove to Timmins to speak to Eacom Timber about land access and purchasing. FD then did computer/paperwork. DP showed FR around the camp, explained our project. CS & CG did mapping and sampling in 4273035, it was CG's last day at the camp. DG, DR & SC did camp maintenance, road fixing for the MNR and setting up the prospector's tent. DD set up cameras around the camp. SB & RB did camp maintenance and cooking.
August 28, 2014	FD 9 SB 10 DP 8 CS 9.5 FR 9.5 WG 8 RB 9 SC 9 DG 9 DR 9	4273175, 4273194, 4276170, 4276169, 4273035	1, 2, 3, 4, 5	P & C continued drilling hole #7. FD did line flagging on the lower CanREE outcrop for two holes; one on the north end and the other on the south end. FD then drove to <i>Matheson</i> with SB for supplies, water, gas and groceries. DP & FR working, discussing and planning for drilling in the Golden Target Project. CS & WG did grid mapping and sampling in 4273035. DG, DR & SC continued fixing the road for MNR and did camp labour. SB & RB did the camp maintenance and cooking.

	DD P, C	10 Drillers & Helpers			
August 29, 2014	FD SB DP CS FR WG RB SC DG DR DD P, C	13 14 9 9 9 9 14 10 10 10 10 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035	1, 2, 3, 4, 5	P & C continued drilling hole #7. FD, DG, DR, RB & SC worked on the road for the MNR, supply fire wood and clean up. DP did some researching/computer work and with WG did core logging. FR & CS worked on IP survey lines of Nebu's to compare the data and look for fault line, then they came back, plotted the results in the map and did some research. SB & DD went to Swastika lab to bring samples then went to Timmins to buy a BBQ, groceries and supplies, then back to <i>Matheson</i> to get gas, water, supplies and groceries then they came back to do camp maintenance and cooking.
August 30, 2014	FD SB DP CS FR RB SC DG DR DD P, C	10 14 9 10 9 10 10 10 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 3, 4	P & C continued drilling hole #7. FD did camp maintenance; check and change the water and propane in driller's trailers and camp trailers, clean up with SB, and discuss with DP & FR the VLF surveys to be conducted. DP continued core logging and researching. FR & CS research and discuss Golden Target Project. DG, DR & SC built a new core rack inside the prospector's tent, installed wood stove & pipes inside the prospector's tent for cold weather coming, then fixed up tables and chairs. SB & RB did camp maintenance and cooking.
August 31, 2014	FD SB DP CS FR RB SC DG DR DD P, C	9 11 6 9 9 9 9 9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4273033	1, 4, 5	(LABOUR DAY) PAID DAY OFF FOR STAFF. Some staff worked anyway. P & C continued drilling hole #7. FR & CS went to the field grid mapping and sampling 4273033 & 4273035. DP did core logging and computer work. DR & DG went home and came back the next morning. SB & RB camp maintenance and cooking.
September 1, 2014	FD SB DP CS FR RB SC DG DR P, C	13 14.5 10 9.5 9.5 14.5 9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	P & C continued drilling hole #7. FD, DG, DR, SC & RB did line cutting from the 1 st west hole on the seventh to the second west hole. They also did fire wood and camp maintenance. FR & CS did grid mapping and sampling on 4273033. DP core logging and computer work. SB & RB did the cooking and camp maintenance.
September 2, 2014	FD SB DP CS FR JB	17 14.5 13.5 9 13.5 12.5	4273175, 4273194, 4276170, 4276169	1, 4	P & C continued drilling hole #7. Line cutters JB & SBE did line cutting from drill hole #1 into the west side of the outcrop to the next hole in the south side. FD & DP went into the field to spot 3 drill holes in 4273194, then came back to do computer work for the MNR, logs and work schedule, then they went to dinner in Timmins to meet with the P. Geo of Murgor along with FR to discuss Golden Arrow. DP & CS did core logging and data transferring. DG, DR & SC did line cutting the

	SBE RB SC DG DR P, C	12.5 14.5 9 9 9 Drillers & Helpers			west side of the outcrop and finished line cutting drill pad at the 2 nd hole south side and helped cutting in the north side. SB & RB went to Kirkland lake for supplies then did camp maintenance and cooking.
September 3, 2014	FD SB DP CS FR JL RB SC DG DR P, C, R, D, BR, BI, BRY, N,	10 15 6 9 9 6 15 9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169	1, 3, 4, 5	P & C continued drilling hole #7. 6 new drillers came in today to start 24 hr shifts. (R, D, BR, BI, BRY & N), along with 2 drill mechanics to set up. The drillers brought a new drill rig, a second drill trailer and other equipment that were floated in with the help of FD's truck. DL came back to do core cutting. DP went home until Monday. FR & CS did mapping and sampling in the Golden Target area. FD computer work, reports, MNR, land registration claim staking info, met with the drillers to help bring in the new drill and set up the 2 nd drill trailer in work area 3. DG, DR & SC finished line cutting the line after JB & SBE yesterday all the way to drill pad in the west side of the outcrop. JL is back today to do claim staking & VLF surveying. SB & RB did camp cooking and maintenance.
September 4, 2014	FD SB CS FR JL RB SC DG DR P, C, R, D, BR, BI, BRY, N,	17 14 10 10 10 12 12 10 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4277125	1, 3, 4, 5	Drillers P & C continued drilling hole #7. The 2 mechanics worked in the rig while N started setting up Acker drill at the north hole. R, D, BR, BI & BRY set up their camp and equipment. DL did core cutting. FD helped the drillers with the setup, went to Cochrane to registration office for documents on lot 4 con 2, and to pick up some supplies. JL staked part of 4277125 and FD registered them. FR & CS did core logging and went to the field for mapping and sampling in 4273033, then they came back to align the Acker at its first drill hole. DG & DR did camp labour, fire wood and maintenance. SB, RB & SC went to town for groceries, water and supplies then came back for camp clean up, maintenance and cooking.
September 5, 2014	FD SB CS FR JL RB SC DG DR P, R, D, BR, BI, BRY, N	14 15 9 9 9 15 9 9 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4277125	1, 4, 5	N & BR drilled while the rest of the drillers (P, R, D, BI & BRY) went to Atlas Copco for a learning session. FD set up drillers, got silt cloth for N, got propane, did 4277125 claim registration. FR CS & JL finished claim line 4277125, did VLF surveying in 4273033, downhole survey on hole #7. DG, DR & SC made a barrier around diesel tank and did camp labour. SB & RB did camp maintenance and the cooking.
September 6, 2014	FD SB CS FR JL SC DG DR	12 15 10 9.5 9.5 9.5 9.5 9.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	P, R, D, BR, BI, BRY & N drilled with both drills. FD went to buy 7x16 enclosed trailer and went to Matheson to get fuel and supplies, then checked with the drillers and spotted a drill hole. FR & JL did VLF surveying on 4273033. CS did computer work, data transferring, supervising the camp & the drillers. DG, DR & SC put rocks around the diesel tank, finished line cutting in the north end of the CanREE on the west side of the outcrop. SB traveled with FD to get supplies then did camp maintenance and cooking with RB.

	P, R, D, BR, BI, BRY, N				
September 7, 2014	FD SB CS FR JL RB SC DG DR P, R, D, BR, BI, BRY, N	13 15 9.5 10.5 10.5 10 10 4.5 4.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	P, R, D, BR, BI, BRY & N continued drilling using two different drills. FD helped drillers move the Copco drill with his truck, helped N with the Acker, fixed the silt fences, fixed woodstove and pipe in the prospector's tent, then went for excavator repairs. FR & JL did VLF surveying in 4273033. CS did downhole survey on the 50 meter west hole, then did some paper/computer work. DG & DR did a half day; finished setting up the woodstove in the prospector's tent. SB, RB & SC did camp maintenance and cooking.
September 8, 2014	FD SB DP CS AK FR JL RB SC DG DR SE JB, SBE P, R, D, BR, BI, BRY, N	14 13 7 9 7 9 10 13 13 10 10 6 Line Cutters (10) Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 4	P, R, D, BR, BI, BRY & N continued drilling. DP returned back to camp with AK, SE also returned back to camp. FD did excavator work on PDH 1 drill zone lines on 4273194 south. FR & JL continued with the VLF surveying and flagging in line cuts for PDH 1 to 3. DG & DR did line cutting on south line to drill pad PDH 1. SB, RB & SC drove to Timmins to get some supplies and groceries, then came back to camp for maintenance and cooking. CS did the downhole survey for the north drill hole, set up drill dip and azimuth at the second north drill hole, as well as supervised the camp. DL did some core cutting. JB & SBE did line cutting.
September 9, 2014	FD SB DP CS AK FR JL RB SC DG DR SE JB, SBE P, R, D, BR, BI, BRY, N	14 16 10 10 10 9 9 9.5 9.5 9.5 9.5 16 Line Cutters (10) Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033	1, 4, 5	Started the drilling night shifts; one day shift with P, D, BR, BI & N, and the night shift with R & BRY. DL cut core and went home when he was done. JB & SBE did some line cutting. FD drove to Valgagne and Matheson to fix truck brakes, balance tires, buy supplies, gas and food. DP, CS & AK did core logging, data entry, computer work, downhole survey, lined up the drill's dip and azimuth. FR & JL finished up the VLF surveying then came back to camp for data entry and interpretations. DG, DR, RB & SC did line cutting in PDH 2 and 3. SB & SE did camp maintenance and cooking.

September 10, 2014	FD SB DP CS AK FR RB SC DG DR SE P, R, D, BR, BI, BRY, N	14 15 9.5 9.5 9.5 5 9.5 9.5 9.5 9.5 15 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 3, 4	P, D, BR, BI & N did the day drilling shift, R & BRY did the night drilling shift. FD did excavator work on line cut of the north line the west face and was finished today, then did excavator work on line cut on the east line to PDH 2. FR returned home today off for 4-5 days. DP, CS & AK did core logging, data entry & discussion, downhole survey and drill set up with the dip and azimuth. DG & DR did line cutting; they finished up from yesterday's work done on PDH 2 by JB & SBE. RB & SC helped with camp maintenance and cooking, did the maintenance on the driller's trailer and other trailers, filled water and ATV's fuel, delivered driller's dinner & breakfast. SB & SE did the camp cooking and maintenance. JL returned home today.
September 11, 2014	FD SB DP CS AK JL RB SC DG DR SE P, R, D, BR, BI, BRY, N	14 14 9 9 9 5 15 9 9 9 8 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 3243035	1, 4, 5	P, D, BR, BI & N did the day drilling shift, the Acker drill broke down, Walker and the drillers working on it. R & BRY did the night drilling shift until 10pm due to rain. JL returned today to camp to start staking new claims tomorrow. FD did excavator work; continued on the east line to PDH 2 – parkway to ridge, as well as excavator work to PDH 3. DP & AK core logged and did computer work. CS & SC went out to the field to map and take samples in the Golden Target area. RB, SB & SE did camp cooking and camp maintenance. DG & DR did camp labour, cut fallen trees on the trails, refuel excavator (8 cans) then got fire wood for heating prospector's tent.
September 12, 2014	FD SB DP CS AK JL RB SC DG DR SE P, R, D, BR, BI, BRY, N	8 14.5 9 9 9 12 9 14.5 9 9 14.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273034	1, 4, 5	P, D, BR, BI & N did the day drilling shift, green Acker drill is still down, driller's and Walker working on it. R & BRY did the night drilling shift. FD went home today until Monday, picking up supplies on the way back. JL did claim staking. DP & AK did core logging, computer work, and data entry. DP checked on the drillers and the drill core. DG & DR continued line cutting on PDH 2 then did camp labour and fire wood in the prospector's tent. CS & RB did mapping and sampling in the Golden Target area in claim number 4273034. SB, SE & SC did the cooking and camp maintenance
September 13, 2014	SB DP CS AK JL RB SC DG DR SE	15 9 9 9 9 14.5 9 4 4 15	4273175, 4273194, 4276170, 4276169, 4273034	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. BN the drill mechanic came today to fix the green Acker drill and other drill related equipment. JL did claim staking. DP & AK did core logging, computer work, downhole survey and checked on the drillers. DG & DR did half day of line cutting due to rain. CS & SC did the mapping and sampling in 4273034. SB, RB & SE went to Ramore for propane tanks, went to Matheson for gas, groceries and laundry, and then came back to camp for cooking and maintenance.

	P, R, D, BR, BI, BRY, N, BN	Drillers & Helpers			
September 14, 2014	SB DP CS AK JL RB SC DR SE P, R, D, BR, BI, BRY, N, BN	15 9 9 9 9 9 15 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 4	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. BN still here to fix drill and equipment. JL continued claim staking. DP & AK did core logging, computer work and checked on the drillers. CS did data entry and transferring data from GPS and field note book to the map. DR, SC & RB continued line cutting on PDH 2, and did fire wood for the prospector's tent. SB & SE did camp cooking and camp maintenance, also installed a new hot shower unit in the shower.
September 15, 2014	FD SB DP CS AK JL RB SC DR SE P, R, D, BR, BI, BRY, N, BN	8 15 9 9 9 9 9 9 15 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 4	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. BN still here to fix drill and equipment. FD came back home from <i>Victoria Harbour</i> with supplies. JL did claim staking and stayed over at Rolly's motel. DP, AK & CS did core logging, computer work and checked on the drillers. RB, DR & SC used logs to create a corduroy road fix, split fire wood for the prospector's tent, did camp labour, filled fuel, propane tanks and water. SB & SE went to <i>Matheson</i> for groceries, gas, supplies and laundry. Then they did the camp cooking and maintenance. SB also did the tar roof on the core shack trailer and sealed the prospector's tent canvas.
September 16, 2014	FD SB DP CS AK RB SC DR SE P, R, D, BR, BI, BRY, N, BN	14.5 4 9 9 9 12.5 12.5 9 12.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. BN still here to fix drill and equipment he left at 5pm after his shift. FD did excavator work from the west face of the south drill hole toward the next hole to the north, approximately 200m. JL stayed at Rolly's Motel. DP did core logging and computer work and checked with the drillers. AK & CS went out to the field for mapping, flagging and sampling in 4273035. RB did camp cooking and maintenance. SE & SC drove to Timmins to drop off SC to the airport, dropped off DR home, bought groceries, gas, propane and supplies then came back to camp to help RB.
September 17, 2014	FD SB DP CS AK FR JL RB	9 14.5 9 9 9 6 6 9	4273175, 4273194, 4276170, 4276169, 4273034, 4277124	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. FD did paper work, phone calls, report writing and research. FR returned back to camp. JL returned back to camp at night while he was claim staking throughout the day. DP & AK did core logging, computer work and downhole survey. RB & CS did mapping in 4273034. SE & SC went to Timmins to pick up SB then went grocery shopping and bought supplies, then came back to camp for cooking and maintenance.

	SC SE P, R, D, BR, BI, BRY, N	14.5 14.5 Drillers & Helpers			
September 18, 2014	FD SB DP CS AK FR JL RB DR SC SE P, R, D, BR, BI, BRY, N	13 14.5 9 9 9 9 9 12 7 11 14.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,, 4273035, 4273033	1, 4	24 hour shift on the Acker and Copco. P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. FD fixed equipment around the camp along with ATVs. FR did mapping and paperwork. DP, CS & AK did core logging, computer work and downhole survey. Then FR & CS went prospecting in 4273035. RB did camp cooking and maintenance. SC helped FD with fixing equipment. SB & SE went to <i>Swastika</i> to drop off the samples in the lab, then went to pick up DR in <i>Kirkland Lake</i> , they also went to buy supplies and groceries then came back to camp for cooking and maintenance. JL continued claim staking to north of <i>Outwash Park</i> . DR split firewood for prospector's tent
September 19, 2014	FD SB DP CS AK FR JL RB DR SC SE JB, SBE M P, R, D, BR, BI, BRY, N	16 14.5 9 5 10 9 9 14.5 8 8 14.5 Line Cutters (10) 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4273034, 4277124	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. JB & SBE did line cutting of 200m in the Golden Target's first hole in claim number 4273035. M started today to run the excavator to clear line cuts. FD did line cutting and transported JB & SBE to their locations in Golden Target, brought M back to CanREE to finish PDH 2 line on the excavator, registered 4 claims that JL has staked, then he finished maps and paperwork. FR went out to the field to prospect and spot another drill hole in Golden Target. DP drove CS <i>Matheson</i> bus station since CS went back to Toronto. DP & AK did core logging, AK also went with FD in the morning to show the line cutters the way into the Golden Target. JL finished claim staking the <i>Wildgoose north claim</i> . DR & SC did camp labour work. RB, SB & SE drove to <i>Matheson</i> and <i>Ramore</i> for gas, propane and supplies, then came back to camp for camp maintenance and cooking and to prepare the camp for the investor's visit tomorrow.
September 20, 2014	FD SB DP AK FR RB DR SC SE P, R, D, BR, BI, BRY, N	14 15 9 9 9 11 11 11 15 Drillers & Helpers	4273175, 4273194, 4276170, 4276169,	1, 4,	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. FD went to town for supplies then took the investors for a tour around the camp. DP & AK did core logging and computer work then went to do the downhole survey and check with the drillers. FR did mapping, VLF surveying interpretation on the phone with Shawn Parent. DR did camp labour, firewood stacking in the prospector's tent. RB, SC, SB & SE did camp cooking and camp maintenance.
September 21, 2014	FD SB DP AK FR	15 14 9 9 9	4273175, 4273194, 4276170, 4276169,	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. DL came back to camp today to do core cutting. SC & RB's last day of work today, worked until 12pm. Then FD drove them to the car with the ATV outside of the camp. DP & AK did core logging. FR continued spotting second and third drill holes in the Golden Target, as well as VLF surveying and researching.

	DL RB DR SC SE P, R, D, BR, BI, BRY, N	Core Cutter 6 9 6 14 Drillers & Helpers	4273035, 4277124		DR did camp labour and stacking firewood. SB & SE did camp cooking and maintenance, also went to <i>Matheson</i> for groceries, gas, water and supplies.
September 22, 2014	FD SB DP AK FR DL DR SE JB, SBE M P, R, D, BR, BI, BRY, N	18.5 14.5 9 9 9 Core Cutter 10.5 14.5 Line Cutters (11) 11 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4276172, 4277194	1, 4, 5	P, D, BR, BI & N did the day drilling shift, and R with BRY did the night drilling shift. FD brought the ATVs in the truck and flatbed trailer to the line cutters in the Golden Target, then met with Robino Trucking to float the excavator to Golden Target, placed swamp pads across the creek, and then registered claim number 4276172. M did excavator work, float from <i>Davis Lake Road</i> to Golden Target, then fixed the road for Marcel St. Jean for using access. DL did core cutting. AK & DP did core logging and computer work. FR did mapping, researching and Golden Target drill hole spotting. DR did camp labour then helped FD with the swamp pads. JB & SBE did line cutting on the 1 st line. SB & SE went to Timmins for supplies, rented a pickup truck for two weeks then came back for camp cooking and maintenance.
September 23, 2014	FD SB DP AK FR DL DR JB, SBE M P, R, D, BR, BI, BRY, N, NI	10 13.5 9 13.5 10 Core Cutter 10 Line Cutters (12) 12 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4277124, 4273035	1, 4, 5	P, D, BR, BI & N did the day drilling shift, a new driller joined them today; NI. R & BRY did the night drilling shift. FD delivered 200 liters of diesel to fuel the excavator that was operated by M in the Golden Target, then did chip sampling in 4273033. JB & SBE stayed overnight in the camp then they continued line cutting, they reached the drill pad on Golden Target drill hole #1. DL did core cutting for half of the day then had to leave because he blew his saw motor. DP did core logging & computer work. AK & SB went to <i>Matheson</i> to do laundry, get gas, water, diesel, groceries and supplies. They came back to camp to do cooking and camp maintenance. DR did camp labour and firewood splitting and stacking. FR went out to the field to spot the second drill hole in the Golden Target.
September 24, 2014	FD SB DP AK FR DR JB, SBE M P, R, D, BR, BI, BRY, N, NI	14.5 14 9 10 10 9 Line Cutters (12) 12 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4277124, 4273033	1, 4, 5	The Acker drill broke down, drillers moved the Copco to the last hole in the CanREE. Line cutters JB & SBE worked on line 2 at the Golden Target. M did excavator work on the 1 st hole line and pad and starting second hole line in the Golden Target. FD helped P move the diesel pump with both ATVs, went to pick up diesel cans and check on the line cutters and M, went into <i>Matheson</i> to get gas, diesel and supplies, and came back to camp to email Laurentian University about the delay in results from all of the samples. DP & AK did core logging and computer work. DR did labour work, helped AK moving core boxes and help FD moving things into and out of the Golden Target. SB helped FD with pump moving, then came back to camp for camp cooking and maintenance with AK. FR continued drill hole spotting and prospecting in Golden Target.

September 25, 2014	FD SB DP AK FR DL DR P, R, D, BR, BI, BRY, N, NI	14 14 10 14 10 Core Cutter 9.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4277124	1, 4, 5	Copco drill broke down, both drills are not working today, drillers trying to figure out what is wrong. FD did excavator work to clean up line cutting after M on line 1 in the Golden Target. DL came back today to do core cutting with new blades and new saw motor. FR did prospecting and 2 nd drill hole spotting in the Golden Target area. DP did core logging and computer work. AK & SB went to <i>Kirkland Lake</i> to get sample supplies, went to <i>Swastika</i> to drop off samples at the lab, then to <i>Matheson</i> to get groceries and drinking water. They came back home to cook and for camp maintenance. DR did camp labour and firewood splitting.
September 26, 2014	FD SB DP CS AK FR DL DR JL JL P, R, D, BR, BI, BRY, N, NI	14.5 14 9 9 14 10 Core Cutter 10 7 3 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124, 4273035	1, 4, 5	The drillers fixed the Acker drill and did an overnight shift as well, however the Copco not fully repaired. DL did core cutting. CS came back to camp today, DP went to pick him up from <i>Matheson</i> bus station. FD did excavator work to smooth out log road on line #1 and half way to line #2 at the Golden Target area. DP & AK did core logging and computer work. JL moved line post 2 for 4273039 to include patent as per MNDM orders and did VLF surveying on drill hole #3 at the Golden Target area. FR helped FD with diesel cans and filling at the excavator, helped JL with the VLF surveying then prospected and spotted the 3 rd hole at the Golden Target. DR did camp labour. SB brought the excavator key to FD at the Golden Target area, bought diesel for the excavator, and did the camp cooking and camp maintenance with AK.
September 27, 2014	FD SB DP CS AK DL DR JL JB, SBE M P, R, D, BR, BI, BRY, N, NI	14 15 9 9 15 Core Cutter 10 9 Line Cutters (13) 13 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124, 4273035	1, 4, 5	Acker drill was running but Copco still down. DL did core cutting. M did excavator work on line 2 to drill pad at the Golden Target. JB & SBE did line cutting for line 2 to pad at the Golden Target. FD & DR did line cutting on line 2 at the Golden Target from the pad toward JB. FR did prospecting in the Golden Target area, 3 rd hole spotting and researching. JL did VLF surveying on hole # 3 at the Golden Target. DP & AK did core logging and computer work. SB & AK did camp cook and camp maintenance. CS did mapping in the Golden Target area.
September 28, 2014	FD SB DP CS AK DL DR JL P, R, D, BR, BI, BRY, N, NI	15 14 9 9 14 Core Cutter 10 9 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4273034	1, 4, 5	Yellow Copco drill being repaired, green Acker drill finished the final hole in the CanREE. CanREE drilling completed for 2014 season, the drills will be moving tomorrow to Golden Target. DL did core cutting. FD did excavator work on line 1 & 2. JL & CS did mapping, VLF surveying and prospecting in the Golden Target area. FR went home for a couple days. DP & AK did core logging and computer work. AK & SB went to <i>Matheson</i> for water, fuel and supplies, then back to camp for cooking and camp maintenance. DR did camp labour and firewood.

September 29, 2014	FD SB DP CS AK DL DR JL P, R, D, BR, BI, BRY, N, NI, K	9 14 9 9 14 Core Cutter 9.5 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4277124	1, 4, 5	K arrived today with float to bring the yellow Copco drill to the Golden Target and bring the green acker drill back to <i>Barrie, Ontario</i> . P, R, D, N, K, BRY, BI & BR are the drillers that were cleaning up equipment from all drill hole sites in the CanREE and helping move the drills. FD coordinated with the float arrival and went to show K the drop off spot at the Golden Target. AK & SB went to Timmins and Porcupine for supplies and geology supplies (sample bags, field books, sharpies, pens and pencils). DR & JL did camp labour and clean up. DL did core cutting. AK & SB came back to camp to do camp cooking and camp maintenance.
September 30, 2014	FD SB DP CS AK FR DL DR JL P, R, D, BR, BI, BRY, N, NI, K	15 13.5 9 9 13 5 Core Cutter 11.5 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273033, 4277124, 4273035, 4273034	1, 4, 5	The drillers N, BI & D left today and took the green Acker drill with them. K floated out the Acker. P, R, NI, BRY & BR stayed in the camp. FD helped haul in equipment with the truck to the Golden Target and went to <i>Matheson</i> for fuel and supplies. FD then came back to camp to do computer work and invoicing. FR returned to camp today. DP & CS went to the field to spot the first drill hole in the Golden Target then came back to do core logging. AK did core logging. DL did core logging. SB went for garbage run, and with AK did camp cooking and camp maintenance.
October 1, 2014	FD SB DP CS AK FR DR JL P, R, D, BR, BI, BRY, N, NI, S, BRE	14 14.5 9 9 14 9 10 10 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4273035, 4277124	1, 3, 4, 5	S & BRE new driller's helpers arrived today. BRY & BRY leaving today, P, R, NI, S & BRE moved equipment to the Golden Target. FD did line cutting, moved equipment to Golden Target for the drillers, did computer work. FR did VLF survey & mapping, went with CS to Golden Target to prospect and mark foresight at the second drill hole. CS did core logging and went to field with FR. DP & AK did core logging and computer work. DR did camp labour and helped FD with line cutting at the Golden Target. SB did camp cooking and camp maintenance. There was a site visit from the MNM exploration inspector.
October 2, 2014	FD SB CS AK FR JL P, R, NI, S, BRE	13.5 13.5 10 12 9 10.5 Drillers & Helpers	4273175, 4273194, 4276170, 4276169, 4277124, 4273035	1, 3, 4, 5	P, R, NI, S & BRE set up the drill at hole # 2 in the Golden Target area. FD helped the drillers move equipment to Golden Target and did excavator work. FR worked on locating anomalies on the Golden Target near drill hole #1. CS & AK did core logging. CS also went to the field to Golden Target to map drill lines that we line cut and cleared. JL did line cutting ahead of FD who was on excavator for 50 meters. SB & AK went to <i>Swastika</i> to bring samples to the lab, bought groceries and supplies, then came back to camp to do camp maintenance and cooking.
October 3, 2014	FD SB CS AK FR JL	14 13.5 10 12.5 10 14	4273175, 4273035, 4277194, 4273033	1, 5	P, R, NI, S & BRE moved the second camp trailer from work area 3 in the CanREE to work area 5 in the Golden Target area. FD & JL moved equipment with the drillers to Golden Target, did line cutting on an extra 100 meters to new drill pad #1. FR did drill hole spotting in the Golden Target for hole #1, and went prospecting with CS in the Golden Target area. DL came back to camp do

	DL P, R, NI, S, BRE	Core Cutter Drillers & Helpers			cutting core. SB & AK did camp cooking and camp maintenance, SB brought fuel and water from <i>Matheson</i> to Golden Target and to CanREE. AK did core logging.
October 4, 2014	FD SB CS AK FR JL DR DL P, R, NI, S, BRE	12 13.5 10 13.5 10 10.5 9.5 Core Cutter Drillers & Helpers	4273175, 4273035, 4277194, 4273033, 4273035	1, 5	P, R, NI, S & BRE drilled 88 ft of casing. DL did core cutting. FD & JL did excavator work, 100m of line cutting from line 2 in the Golden Target up hill to corner at drill pad and then fixed the log road on the way in to Golden Target. FR & CS did mapping, prospecting and drill hole spotting at the Golden Target. DR did camp labour and split firewood. AK did core logging and helped SB with camp maintenance and cooking.
October 5, 2014	FD SB CS AK FR JL DR DL P, R, NI, S, BRE, MA	13 13.5 10.5 13.5 10.5 11 9 Core Cutter Drillers & Helpers	4273175, 4273035, 4277194, 4273033, 4273034, 4273035, 4277124	1, 5	S hurt his back, R got a new driller's helper; M to help him with the day shift drilling along with P. NI & BRE did the night shift drilling. They drilled 19 boxes of core so far in the Golden Target's first drill hole. DL did core cutting. FD did excavator work, stripped area at Golden Target near drill hole 2, on road to 4273034 corner post, total of 10m x 10m on 1 st rock and 6m x 6m for the second. FR & CS did prospecting in the Golden Target, they found massive pyrite specimens, north of claim 4277124. DR did camp labour. JL brought diesel cans, moved core, helped FD with stripping.
October 6, 2014	FD SB DP CS AK FR JL DR DL P, R, NI, S, BRE, MA	13 13.5 7 9 13.5 9 10 9 Core Cutter Drillers & Helpers	4273175, 4273035, 4277194, 4273033, 4273034	1, 5	P, NI, BRE, R, M & S continued drilling hole #1. DP came back to camp today. FD cut pad with the chainsaw for drill hole #3 and hauled the core to the pick-up truck with the ATV, and brought it back to camp from Golden Target. FR & CS did core logging and prospecting. JL did some camp labour. DR did camp labour and firewood splitting. AK did core logging and helped SB with camp cook and camp maintenance. DL did core cutting.
October 7, 2014	FD SB CS AK FR JL DL DR P, R, NI, S, BRE, MA	14 13.5 9 12.5 10 9 Core Cutter Drillers & Helpers	4273175, 4273035, 4277194, 4273033, 4273034	1, 5	P, S, BRE, R, NI & M completed drilling hole #1 in the Golden Target. DL did core cutting. DP, CS & AK did core logging, computer work and CS did downhole survey on the first hole in Golden Target. FR set foresights at hole #2 in Golden Target then core logged. JL & DR did camp labour and firewood. AK & SB went to <i>Swastika</i> to bring samples to lab, went to <i>Kirkland Lake</i> for supplies and groceries. FD helped the drillers finish hole #1 and help them move equipment and brought core back to camp to be core logged using the ATV and pick up truck.
October 8, 2014	FD SB DP CS AK	10.5 13.5 10.5 10.5 13.5	4273175, 4273035, 4273033, 4273034	1, 5	Drillers moving equipment out of drill hole 1. DL did core cutting. DP & CS did core logging, Golden Target prospecting, computer work and report writing. AK did core logging and helped SB with camp cooking and camp maintenance. DR did camp labour and firewood. JL & FD used the

	JL DL DR P, R, NI, S, BRE, MA	10.5 Core Cutter 9 Drillers & Helpers			excavator to move the drill from hole #1 in the Golden Target to hole #2 and helped the drillers with the set up.
October 9, 2014	FD SB DP CS AK FR JL DL DR P, R, NI, S, BRE, MA	10 13.5 9 9 13.5 5 10 Core Cutter 9 Drillers & Helpers	4273175, 4273035, 4273033, 4273034	1, 5	The drill broke down, drillers trying to fix it. DL did core cutting. FR returned back to camp, worked with Dennis researching and mapping. FD & JL cut logs and placed corduroy road on Golden target hole 2 line and the entrance to Golden Target hole 3. DR did camp labour and firewood stacking. CS, AK & DP did core logging. AK & SB did camp cook and camp maintenance.
October 10, 2014	FD SB DP CS AK FR JL DL DR P, R, NI, S, BRE, MA	8 13.5 9 9.5 13.5 9.5 9.5 Core Cutter 9.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034	1, 5	Drill still broke down, P ordered new part which will arrive tomorrow. DL did core cutting until 12pm then went home for a couple of days. FD did firewood with DR, then FD brought the truck to Danny's Garage in Matheson for repair. FR, CS & JL went to Golden Target to re-spot and cut pad for Golden Target 3. DP did core logging and computer work. AK & SB went to <i>Swastika</i> to bring samples to the lab then went to <i>Kirkland Lake</i> to get supplies and groceries. They came back to camp for camp cook and camp maintenance.
October 11, 2014	SB DP CS AK FR DR P, R, NI, S, BRE, MA	12.5 9 10 12 10 8.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4273035	1, 5	Drill still down. DP did core logging, computer work and report writing. FR & CS did mapping in the Golden Target area, and delivered food for the drillers. DR did camp labour and firewood stacking. AK did core logging and helped SB with camp cooking and camp maintenance.
October 12, 2014	FD, SB, DP, CS, AK, FR, SP, DR, SE P, R, NI, S, BRE, MA	PAID DAY OFF Drillers & Helpers	4273175, 4273035, 4273033, 4273034	1, 5	PAID DAY OFF FOR ALL STAFF – THANKSGIVING. Some still worked anyway. Drill still down. DP, CS, FR & AK did some core logging. FD did firewood. AK, SB & SE did camp cooking, thanksgiving dinner and camp maintenance. SP verifying VLF survey and interpreting them. Thanksgiving dinner held for everyone on-site in prospectors tent.

October 13, 2014	SB DP CS AK FR SP JL DL DR SE P, R, NI, S, BRE, MA	13.5 9 9 13 9 9 10 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	Drill still down, drillers figuring it out. All of the geologists; DP, FR, SP, CS & AK examined the core with SP's probe to detect anomalies and compare to VLF surveying. Then SP, FR & CS went to the field to do VLF lines on the CanREE and went to Golden Target to view the area and for prospecting. DP & AK continued core logging. SB & SE went to Timmins' airport to bring back the rental truck and came back to do camp cooking and camp maintenance. DL came back to camp to do core cutting. JL camp back to camp in the evening.
October 14, 2014	FD SB DP CS AK FR JL DL DR SE P, R, NI, S, BRE, MA	8 13.5 9 9 9 9 9 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 2, 5	Drill still down. FD did paper work and phone calls. DL did core cutting and stored the core in the storage area. FR & CS did prospecting in the Golden Target area with SP and did core logging. JL & DR did camp labour and firewood stacking. AK & DP did core logging and computer work. SB & SE went to <i>Matheson</i> for laundry, water, groceries and supplies then came back to camp for camp cooking and camp maintenance.
October 15, 2014	FD SB DP CS AK FR JL DL DR SE P, R, NI, S, BRE, MA	14 13.5 9 9 9 4 9 Core Cutter 8.75 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	Drill is fixed, drillers setting up. FD fixed the swamp pads for the Golden Target, helped repair the drill rig, paperwork, invoicing and phone calls. FR's last day of work and left at noon. DP, AK & CS did core logging and computer work, then CS & AK went to map outcrops in the CanREE. SB & SE did camp cooking and camp maintenance.
October 16, 2014	FD SB DP CS AK JL DL DR SE P, R, NI, S, BRE, MA	13 13.5 9 9 9 9 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	The drillers drilled 60m of core then the drill broke down again, had to abandon drill hole due to time constraints, and move the drill and the water pump to hole # 3. DL did core cutting. FD went to Golden Target to check on the drill and helped the drillers with moving equipment and water pump. JL did claim staking in Andrew Lake area. DP, CS & AK did core logging and computer data logging. DR did camp labour and firewood stacking. SB & SE went to Timmins to get core storage fencing, supplies and groceries, then came back for camp cook and camp maintenance.

October 17, 2014	FD SB DP CS AK JL DL DR SE P, R, NI, S, BRE, MA	12.5 13.5 12.5 12.5 12.5 9 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	P, R, NI, S, BRE & M continued to move the drill and equipment to Golden Target hole #3. FD, DP, AK & CS did channeling in the Golden Target area in claim number 4273035, then FD did excavator work at the Golden Target drill pad 3. DL did core cutting. JL did claim staking in Andrew Lake area. DR did camp labour and firewood stacking. SB & SE did camp cook and camp maintenance.
October 18, 2014	FD SB DP CS AK JL DL DR SE P, R, NI, MA	14 13.5 10 10 10 10 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	The drill set up, aligning was done last night however the water pump broke down. R & M trying to fix it. P went to town to get parts for the drill as well. FD, DP, AK & CS continued channeling in 4273035. FD removed the swamp pads in the Golden Target area on the creek, towed out the ranger side x side and broken drill. DL did core cutting. SB & SE did camp cooking and camp maintenance. DR did camp labour. JL continued claim staking.
October 19, 2014	FD SB DP CS AK JL DL DR SE P, R, NI, MA	14 13.5 9 9 9 10 Core Cutter 9 13.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124, 4273035	1, 5	P, R, M, NI & BRO pushed 93ft of casing in Golden Target 3 rd drill hole, they are still in an overburden. FD did excavator work, computer work and reports. JL continued claim staking at Andrew Lake area. DR did camp labour and firewood stacking. SB & SE did camp cooking and camp maintenance. CS did prospecting in 4277124 near the third drill hole. DP & AK did core logging. DL did core cutting.
October 20, 2014	FD SB DP CS AK JL DR SE P, R, NI, MA, BRO	14 14.5 9 9 14.5 10 3 14.5 Drillers & Helpers	4273175, 4273035, 4273033, 4273034, 4277124	1, 5	Drillers down to 102ft of casing in Golden Target hole #3. FD did excavator work to cut road on Marcel St. Jean's property in exchange for access, also fixed the water problem near his gate. JL did claim staking in Andrew Lake area. DP, CS & AK did core logging, computer work and report writing. SB, SE & AK drove to <i>Kirkland Lake</i> to bring samples to the lab, get supplies and drop off DR back home, his last day of work. Then they came back for camp cooking and camp maintenance.
October 21, 2014	FD SB DP CS AK JL SE	10 12 9 9 12 9 12 Drillers & Helpers	4273175, 4277124	1, 2, 5	Drill broke down again. FD drove back to <i>Victoria Harbour</i> , hauled geologists' trailer after anti-freezing water system, also took motor, truck tires, ATV tracks and other camp supplies back with him. DP, AK & CS did report writing and map drawing. SB, SE, AK, DP & CS did camp pack up, tents down, water pump out of lake, and other equipment packed up. SB, SE & AK did camp cooking and camp maintenance. JL did staking in Andrew Lake area.

	P, R, NI, MA				
October 22, 2014	FD SB DP CS AK JL SE P, R, NI, MA Drillers & Helpers	10 12 9 9 12 9 12	4273175, 4277124	1, 2, 5	Drill still down. FD drove back to camp from <i>Victoria Harbour</i> to get another load. P & CS did report writing, and camp pack up. AK, SB, & SE did camp cooking, camp maintenance, camp pack up and clean up. JL did claim staking in Andrew Lake area.
October 23, 2014	FD SB DP CS AK JL SE P, R, NI, MA, BN Drillers & Helpers	12 4, 8 10 10 4, 8 10 4, 8	4273175, 4277124, 4273035	1, 5	BN who is the Atlas Copco mechanic came in today and fixed the drill. Drillers drilled 30ft. FD did excavator work for Marcel St. Jean again in exchange for access. DP & CS did channeling in the Golden Target area, stripping the area with the help of FD. AK, SB & SE did camp cooking and camp maintenance, then AK, SB & SE dismantle the screen area on the big trailer and camp pack up for the season. JL did claim staking in Andrew Lake area.
October 24, 2014	FD SB DP CS AK JL SE P, R, NI, MA Drillers & Helpers	10 4.5, 8 9 9 4.5, 8 10 4.5, 8	4273175, 4277124, 4273033, 4273035	1, 5	Drillers drilled 15 boxes of core in Golden Target's 3 rd hole. FD drove back to <i>Victoria Harbour</i> and brought with him the geos student trailer after anti-freezing water system, and the red ATV. DP & CS did core logging near the 3 rd hole, and did prospecting in the Golden Target area. AK, SE & SB did camp cooking and then AK, SE & SB did camp pack up, took down the prospector's tent. JL did claim staking in Andrew Lake area.
October 25, 2014	FD SB DP CS AK JL SE P, R, NI, MA Drillers & Helpers	10 3, 6 9 9 3, 6 9 3, 6	4273175, 4277124	1, 5	Drillers continued drilling 3 rd hole. FD drove back to camp from <i>Victoria Harbour</i> . DP, AK & CS logged the core at the drill hole #3 site as it came out. SB, SE & AK did camp packing and camp cooking. JL finished block claims at Andrew Lake area.
October 26, 2014	FD SB DP CS AK JL SE P, R, NI, MA Drillers & Helpers	10 10 10 10 10 10 10	4273175, 4277124	1, 5	Drill running slowly. FD, DP, CS, AK, SE, SB & JL finished packing up the remainder of the camp, pulled out 31ft travel trailer to Rolly's Motel in Ramore, then heading home tomorrow. 3 rooms were rented for the staff to stay in at the motel. JL helped with some pack up and then drove back home to Sudbury.

October 27, 2014	FD SB DP CS AK JL SE P, R, NI, MA	12 12 9 9 9 9 9 Drillers & Helpers	4277124	5	Drillers continued drilling 3 rd hole. FD & SB hooked up the 31ft trailer & the black ATV in the truck and hauled them to <i>Victoria Harbour</i> . The truck broke down on the way home, had to stop and fix it at North Bay Ford. SE & AK drove back home, SE dropped off AK at Barrie bus station, then SE went to <i>Midland</i> and AK to <i>Oakville</i> . DP & CS did core logging on site at Golden Target 3.
October 28, 2014	FD SB DP CS P, R, NI, MA	10 9 10 10 Drillers & Helpers	4277124	5	P, R, NI & MA continued drilling the 3 rd hole, while DP & CS kept logging the core on site. DP & CS also did paper/computer work, report writing and researching. FD drove back to Rolly's Motel in <i>Ramore</i> . SB worked at FD's house to clean up the trailers and organize equipment.
October 29, 2014	FD SB DP CS NI, MA	10 10 10 10 Drillers & Helpers	4277124	5	Drill broke down, drillers installing new part in the morning. FD finished pack up, garbage out, signs down, berm road for the MNR. DP & CS did core logging on site. Everyone staying at Rolly's motel still, except SB working at FD house, cleaned up and removed supplies from the big trailer.
October 30, 2014	FD SB DP CS NI, MA	10 10 10 10 Drillers & Helpers	4277124	5	Drillers continued drilling. FD hauled 16ft enclosed utility trailer loaded with all equipment back to <i>Victoria Harbour</i> . Truck broke down on road, CAA towed it on flat bed and trailer behind to <i>Midland</i> . DP drove back to Toronto. CS did core logging and stayed at Rolly's with the drillers. SB working from FD's home with the trailers.
October 31, 2014	FD CS NI, MA	10 12 Drillers & Helpers	4277124	5	FD unload equipment into the rental truck. Drillers continued drilling while CS core logged on site.
November 1, 2014	FD DP CS NI, MA	10 10 10 Drillers & Helpers	4277124	5	DP & CS core logging while NI & MA drilling the last hole in GT, FD paperwork and supervising.
November 2, 2014	FD DP CS NI, MA	12 9 9 Drillers & Helpers	4277124	5	DP & CS core logging while NI & MA drilling the last hole in GT, FD paperwork and supervising.
November 3, 2014	FD DP CS NI, MA	10 9 9 Drillers & Helpers	4277124	5	DP & CS core logging while NI & MA drilling the last hole in GT, FD paperwork and supervising.
November 4, 2014	FD DP CS NI, MA	10 10 10 Drillers & Helpers	4277124	5	DP & CS core logging while NI & MA drilling the last hole in GT, FD paperwork and supervising.
November 5, 2014	FD DP CS NI, MA	9 9 9 Drillers & Helpers	4277124, 4273175	1, 2, 3, 5	DP & CS core logging while NI & MA drilling the last hole in GT, FD checked old camp site to lock the storage, lock the core shack and make sure everything is clean.
November 6, 2014	FD DP CS NI, MA	10 10 10 Drillers & Helpers	4277124, 4273175	1, 2, 3, 5	DP & CS core logging while NI & MA drilling the last hole in GT, FD paperwork and supervising. Driller's finished drilling for the season, cleaned up and packed up to leave the site. CS, DP & FD

					finished the core logs, cleaned up, packed up and checked old camp site to make sure everything looks clean.
November 7, 2014	FD DP CS	12 10 10	-	-	FD, CS & DP drove back home and took all left over equipment, went via Timmin's to talk to DL at his shop about remaining core cutting, and drop off the remaining core to be cut from drill #3 of Golden Target.

Appendix B

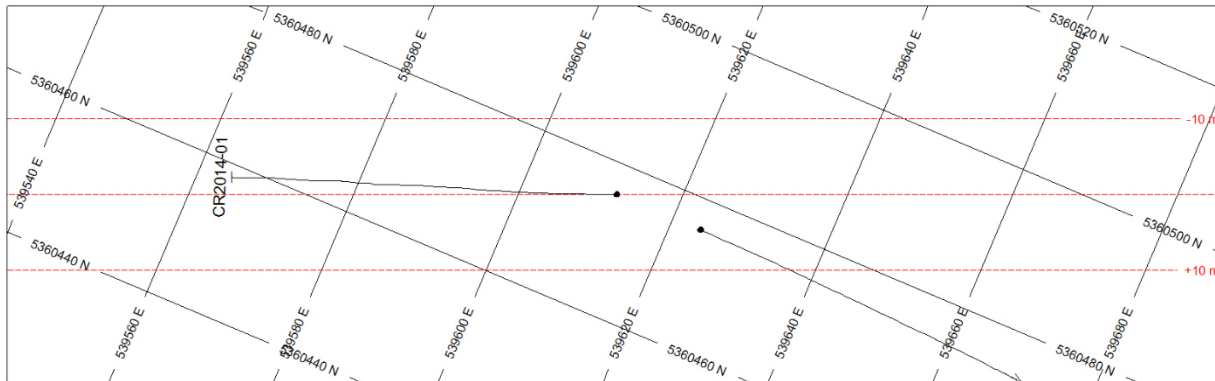
Drill Hole Summaries and Drill Logs

**(Note: Assay Results not included in drill logs due to
ELRFS erroneous assay certificates)**

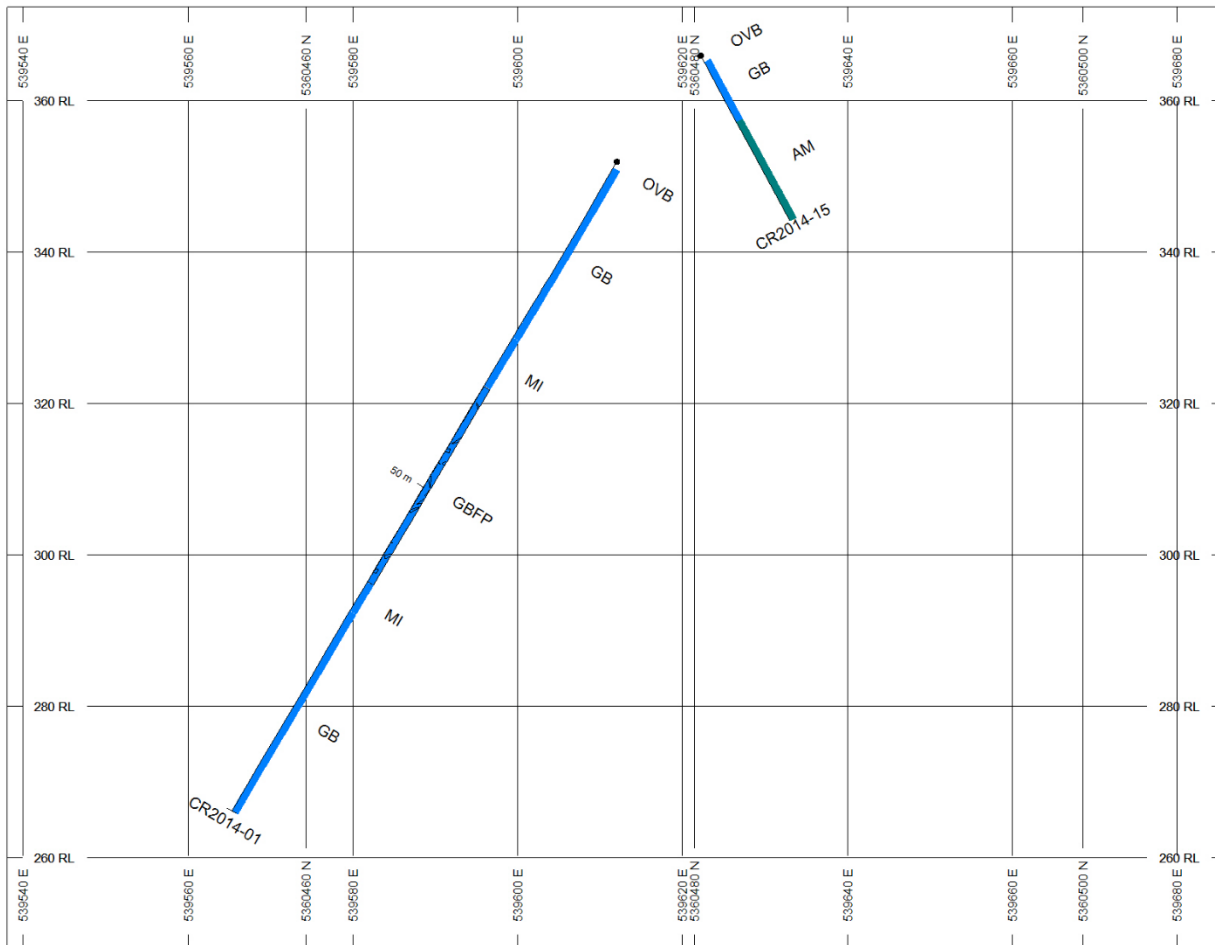
***See attached PDF documents containing
drill hole summaries and drill log**

Appendix C

Drill Section Maps



CR2014-15

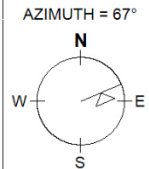
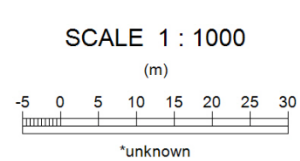


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode	AM	AM	Amphibolite
	GB	GB	Gabbro
	GBFP	GBFP	Porphyritic Gabbro
	MI	MI	Mafic Intrusive
	OVB	OVB	Overburden

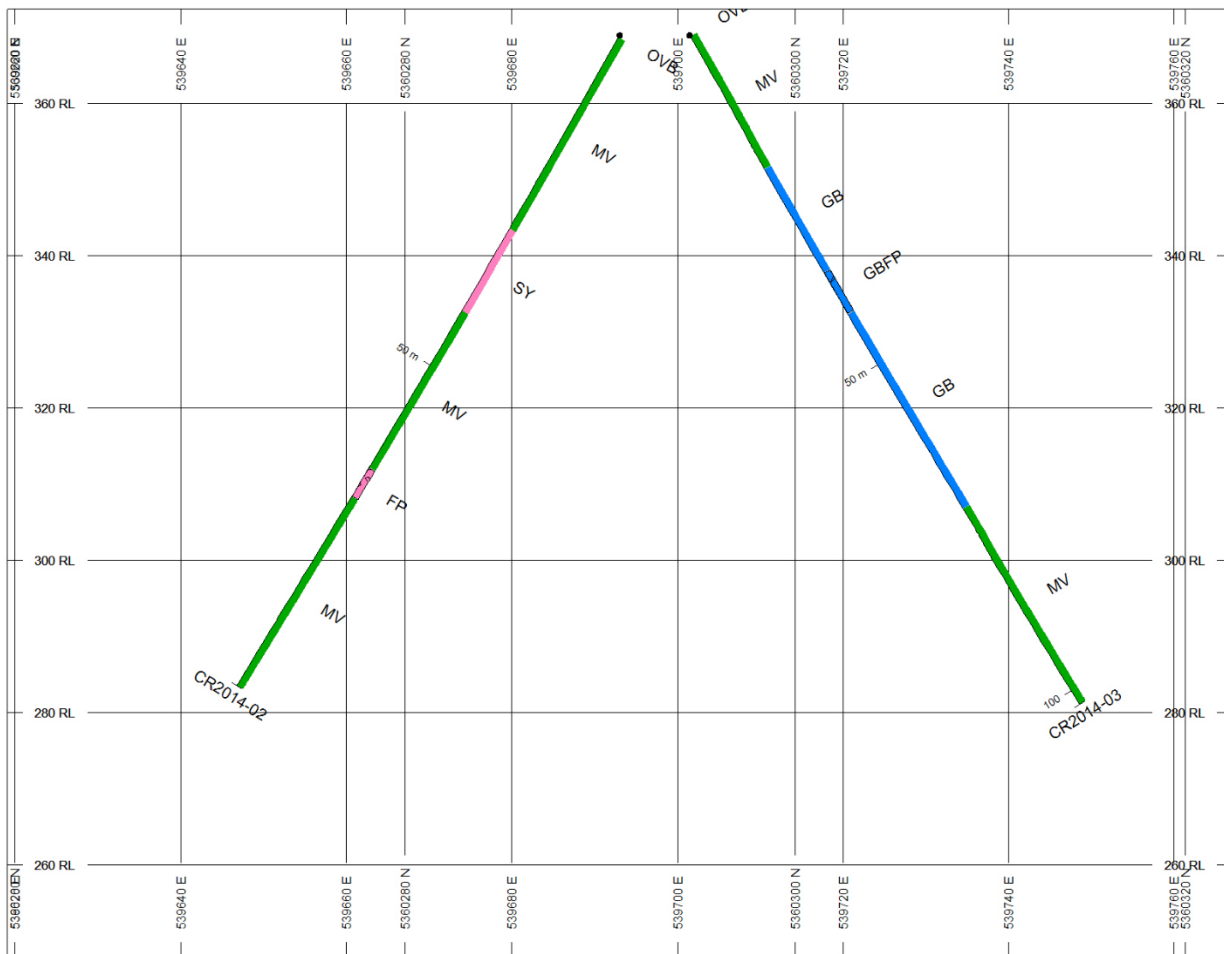
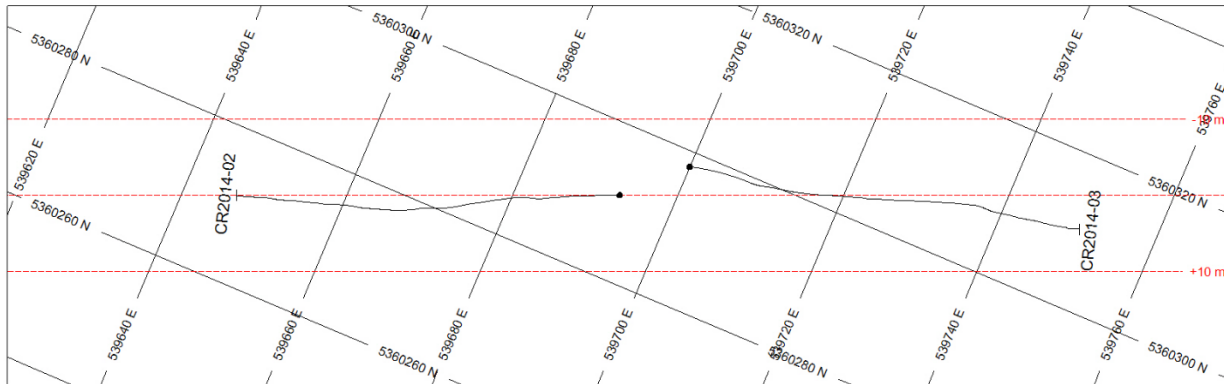
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RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539612 m	5360476 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	372.5 m	247.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-01

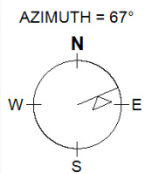
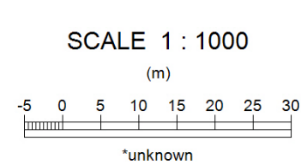


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		FP	Feldspar Porphyry
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		GBFP	Porphyritic Gabbro
		MV	Mafic Volcanic
		OVB	Overburden
		SY	Syenite

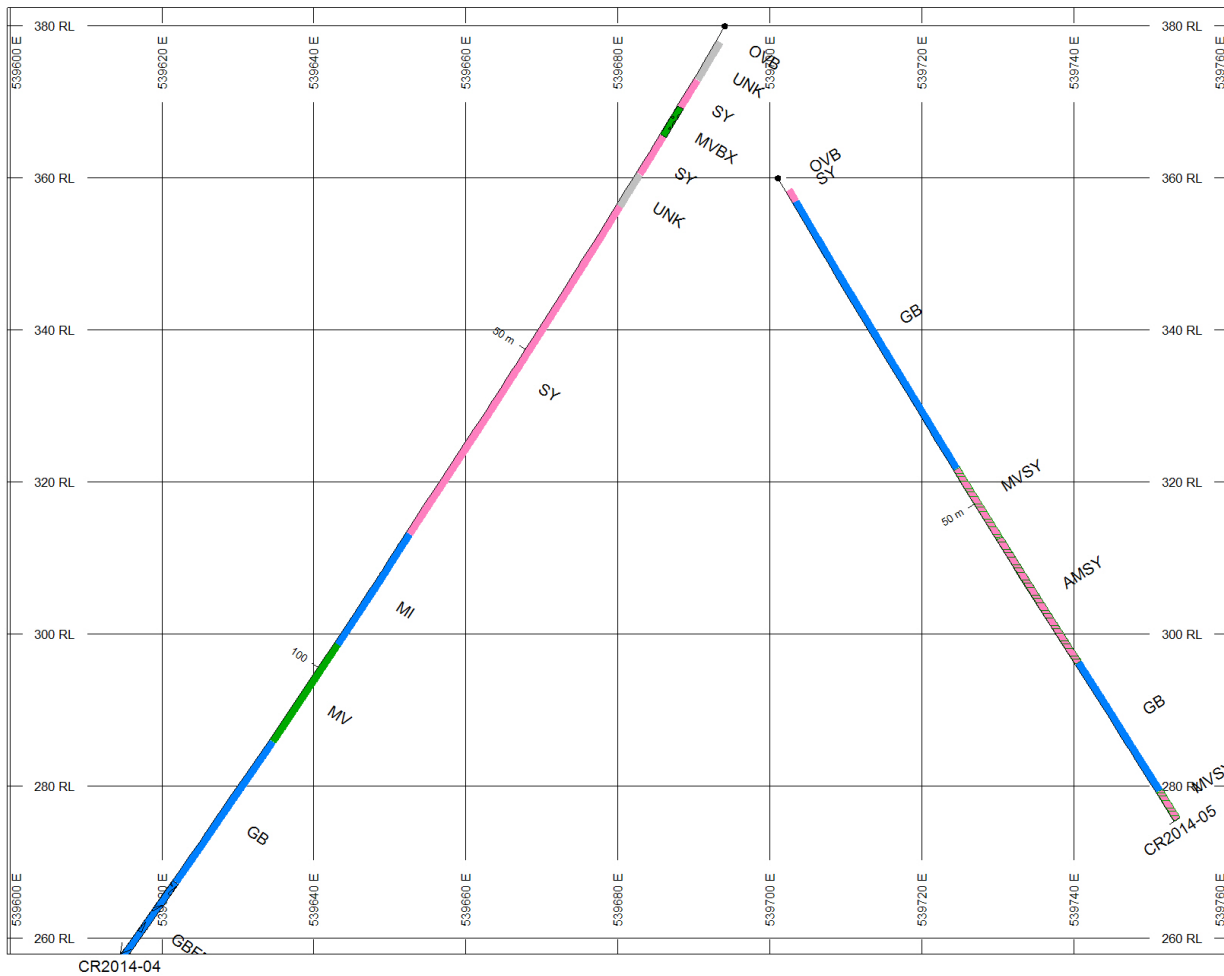
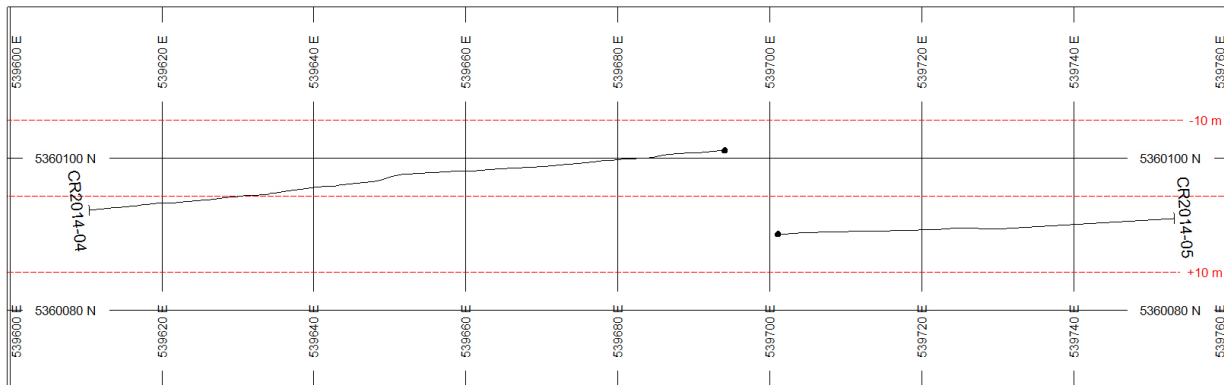
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SECTION SPECS:

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EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	372.5 m	247.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-02 & 03

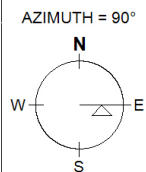
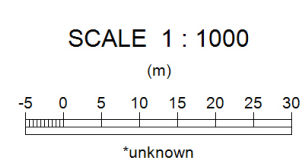


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AMSY	Amphibolite + Syenite
		GB	Gabbro
		GBFP	Porphyritic Gabbro
		MI	Mafic Intrusive
		MV	Mafic Volcanic
		MVBX	Mafic Volcanic Breccia
		MVSY	Mafic Volcanic + Syenite
		OVB	Overburden
		SY	Syenite
		UNK	Unknown

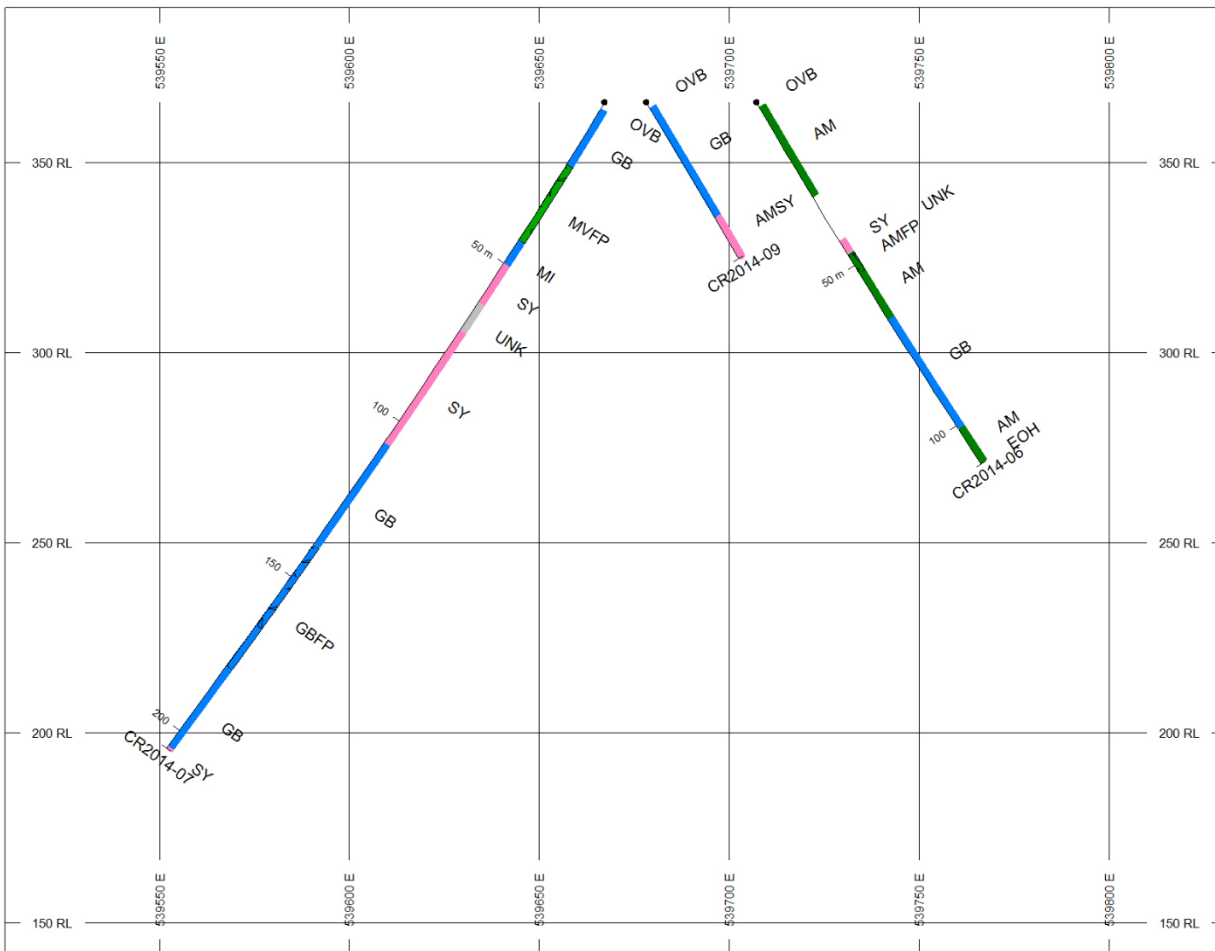
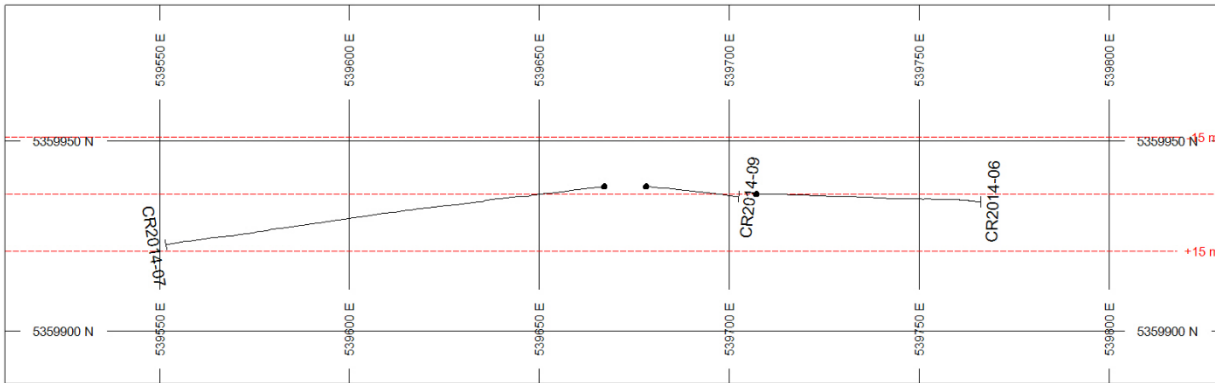
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RockCode	R	-----	All

SECTION SPECS:

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EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	382.5 m	257.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-04 & 05

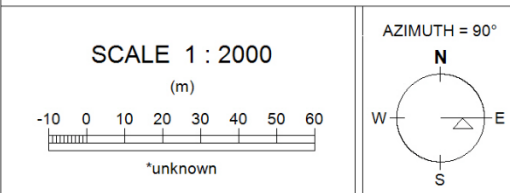


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AM	Amphibolite
		AMFP	Amphibolite, Porphyritic
		AMSY	Amphibolite + Syenite
		EOH	
		GB	Gabbro
		GBFP	Gabbro, Porphyritic
		MI	Mafic Intrusive
		MVFP	Mafic Volcanic, Porphyritic
		OVB	Overburden
		SY	Syenite
		UNK	Unknown

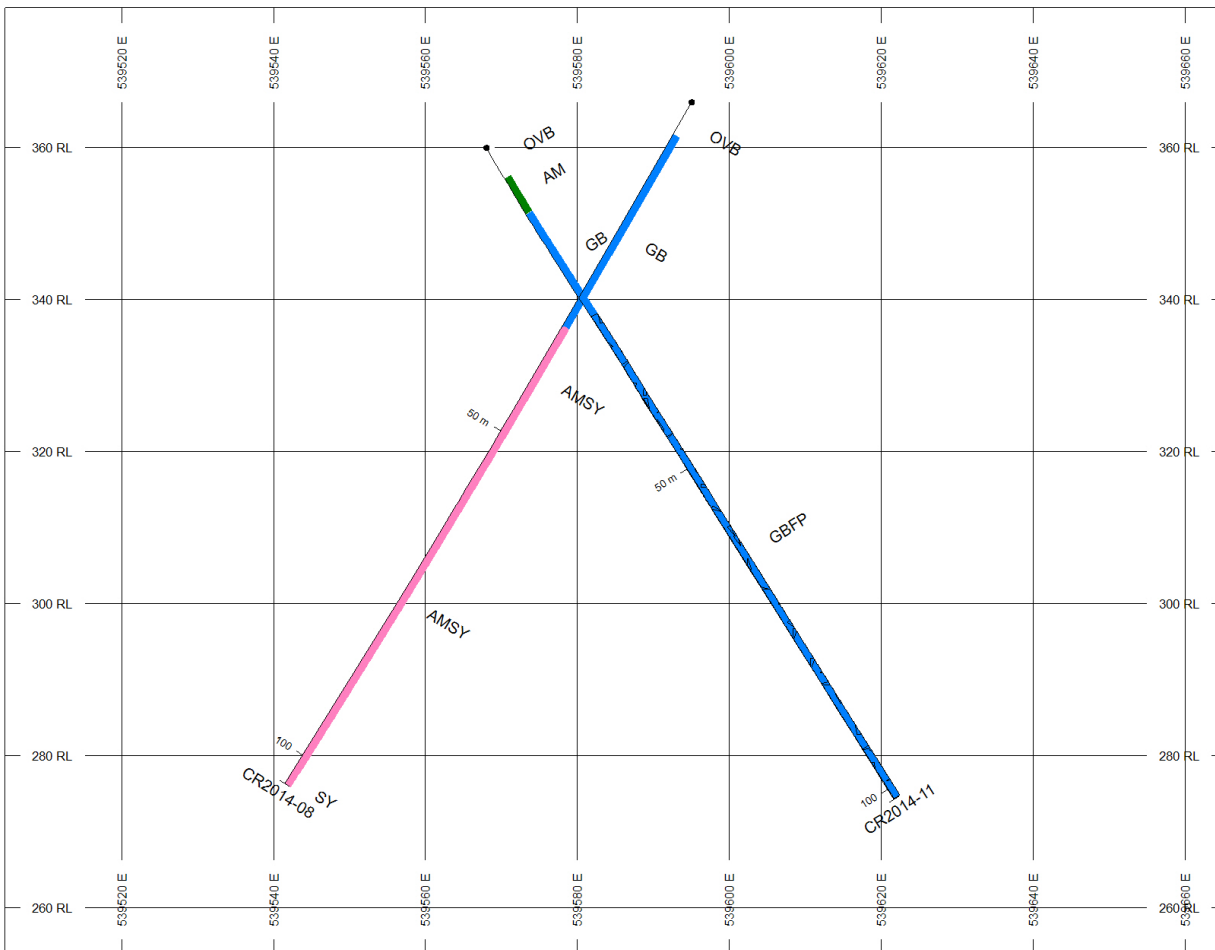
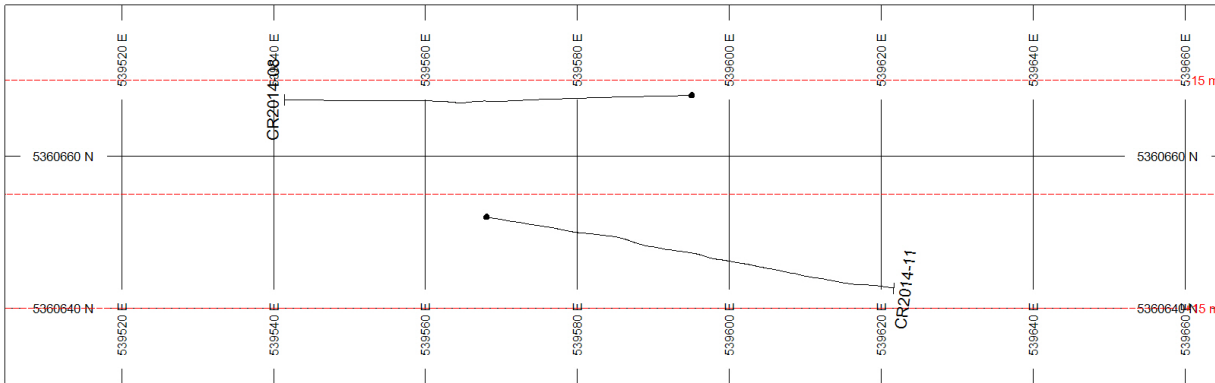
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SECTION SPECS:

REF. PT. E, N	539670 m	5359936 m
EXTENTS	321.6 m	249.1 m
SECTION TOP, BOT	390.9 m	141.8 m
TOLERANCE +/-	15 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-06, 07 & 09

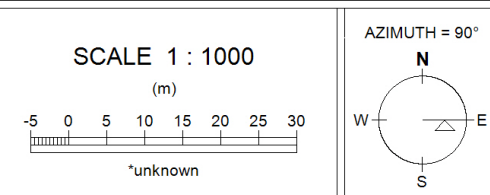


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AM	Amphibolite
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		GBFP	Gabbro, Porphyritic
		OVB	Overburden
		SY	Syenite

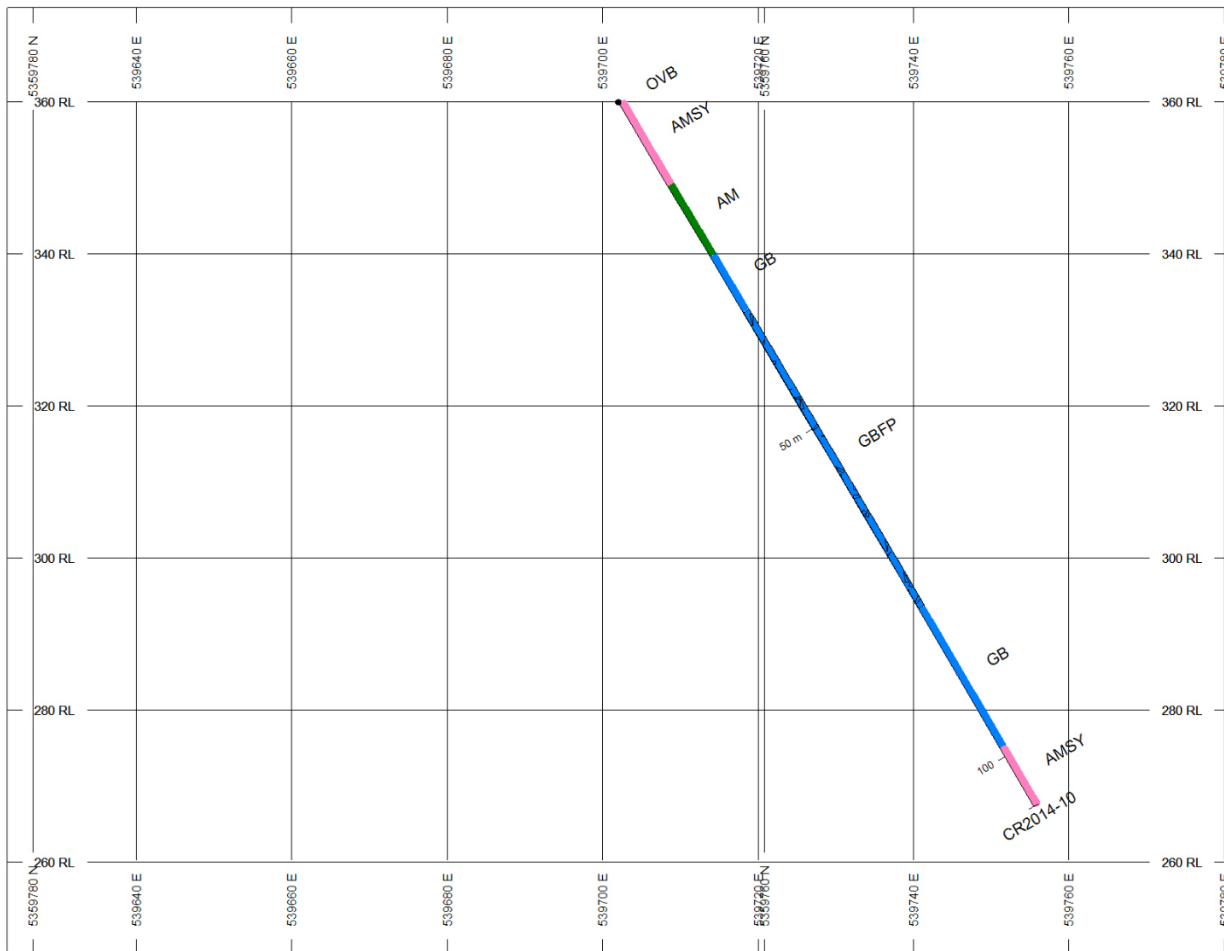
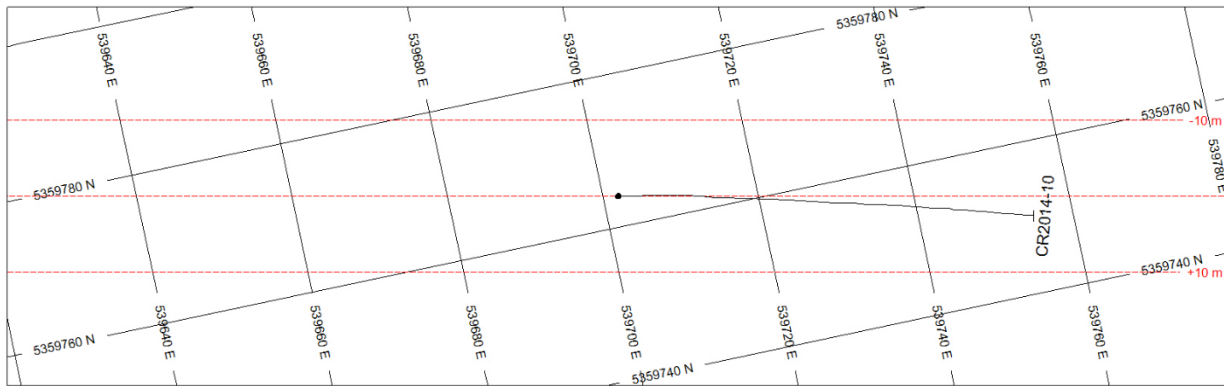
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SECTION SPECS:

REF. PT. E, N	539585 m	5360655 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	15 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-08 & 11

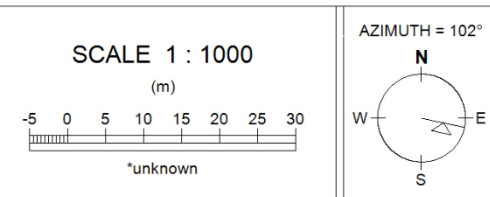


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AM	Amphibolite
		AMSY	Amphibolite + Syenite
		GB	Gabbro
		GBFP	Gabbro, Porphyritic
		OVB	Overburden

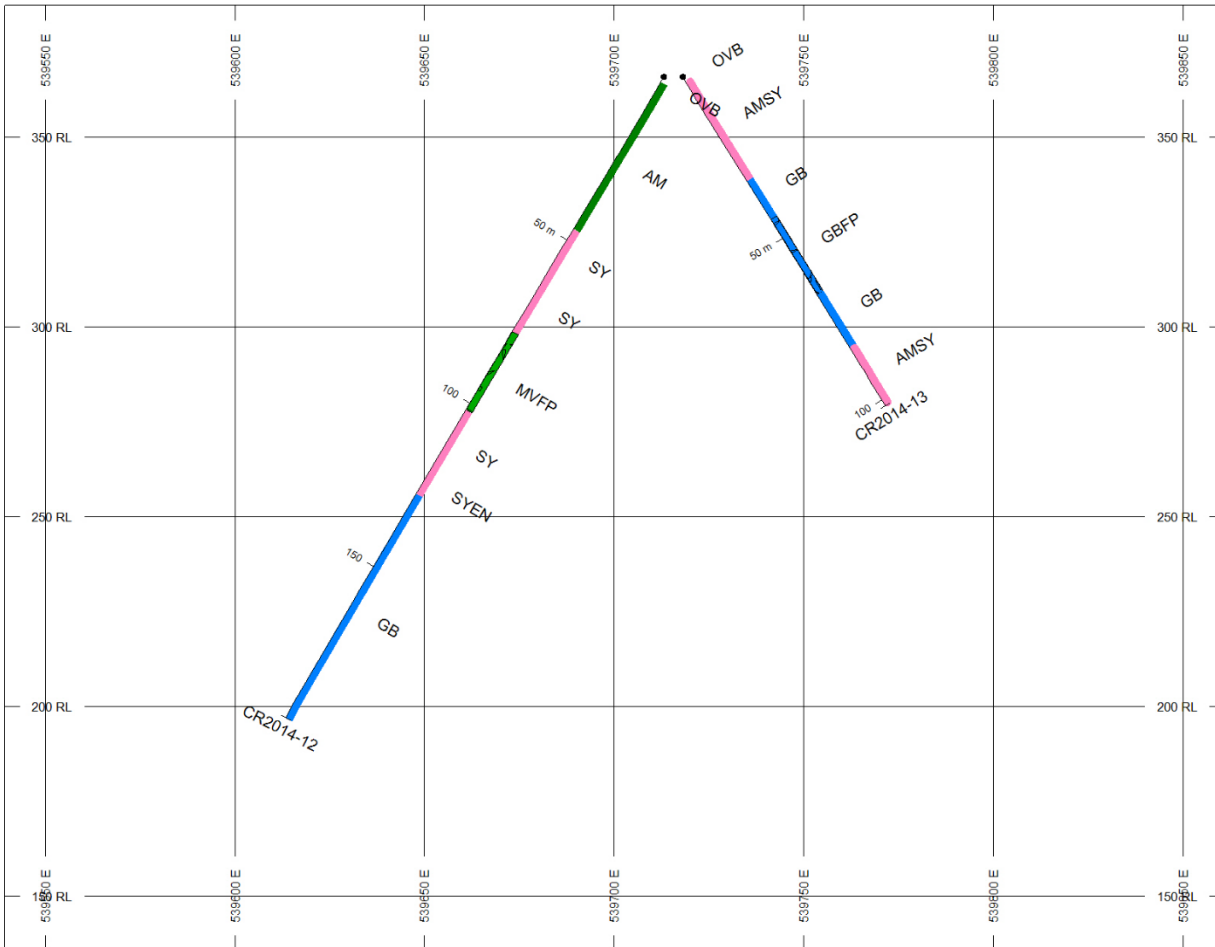
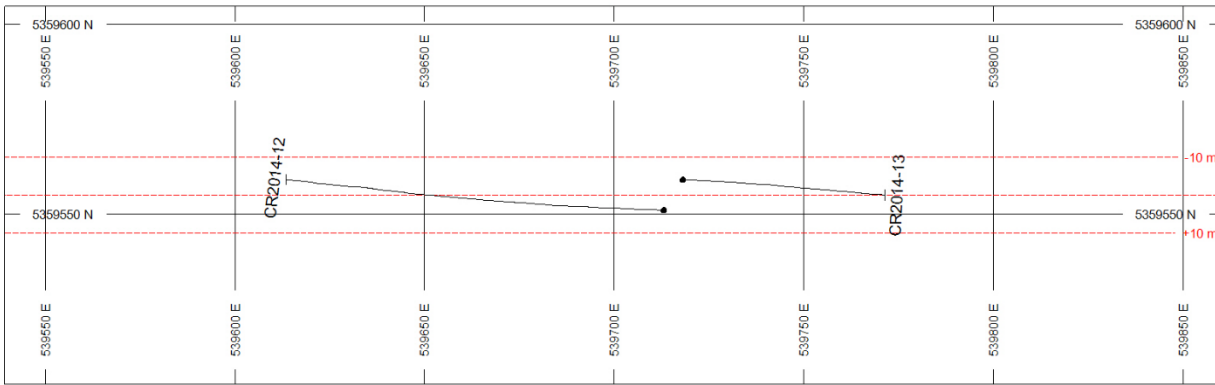
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SECTION SPECS:

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EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	372.5 m	247.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-10

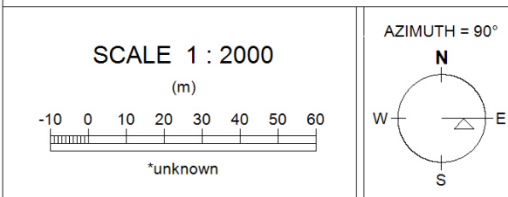


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AM	Amphibolite
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		GB	Gabbro
		GBFP	Gabbro, Porphyritic
		MVFP	Mafic Volcanic, Porphyritic
		OVB	Overburden
		SY	Syenite
		SY	Syenite

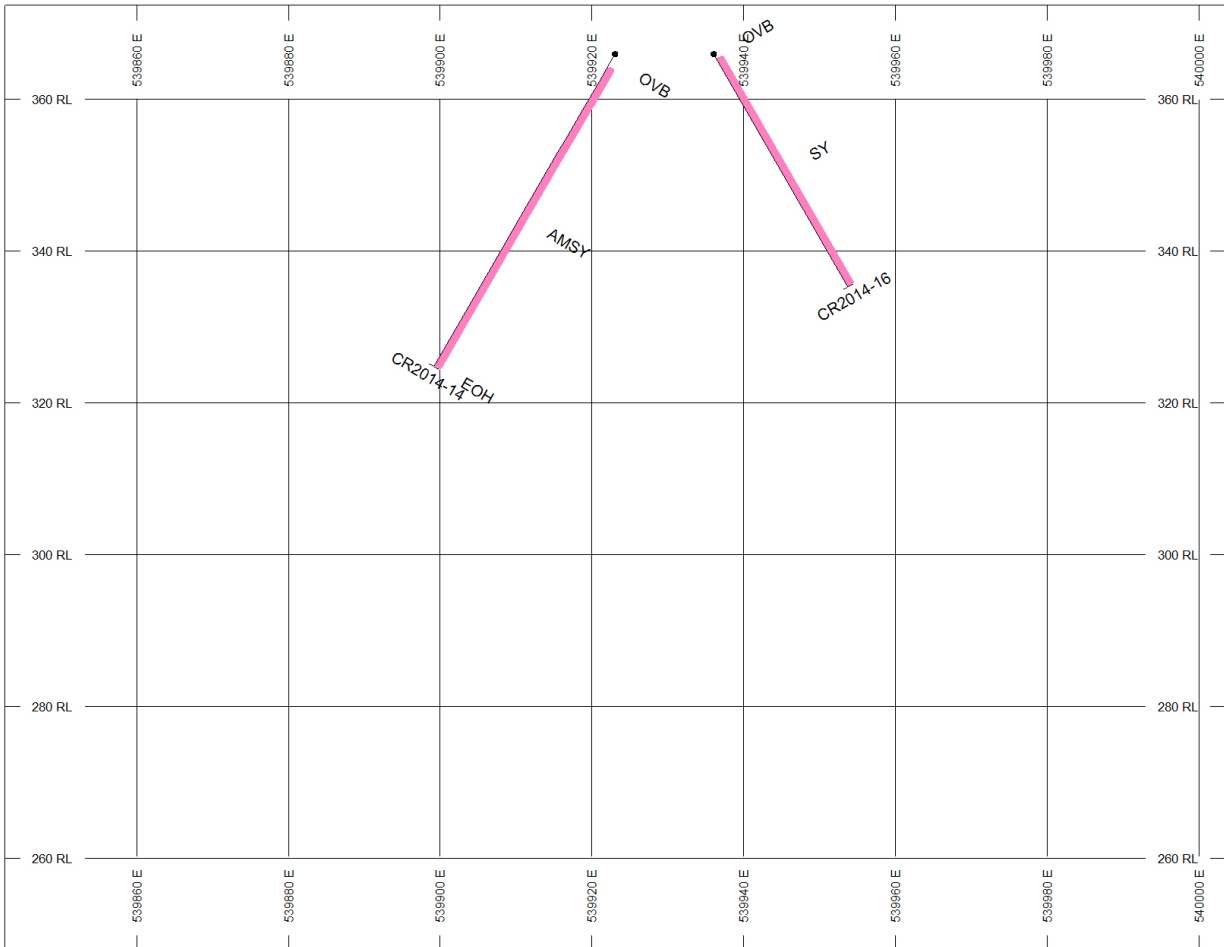
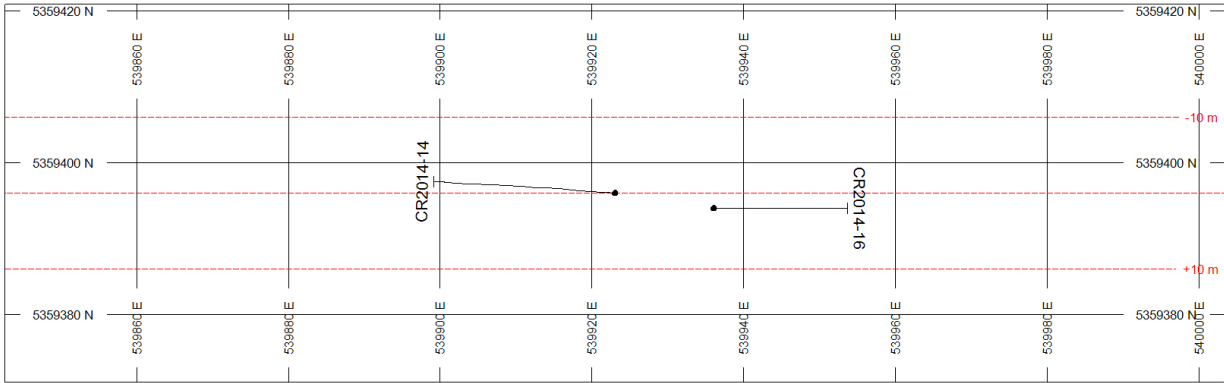
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RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539700 m	5359555 m
EXTENTS	321.6 m	249.1 m
SECTION TOP, BOT	384.9 m	135.8 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-12 & 13

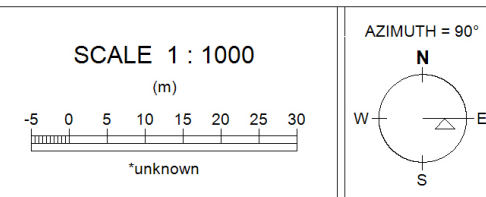


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		AMSY	Amphibolite + Syenite
		EOH	
		OVB	Overburden
		SY	Syenite

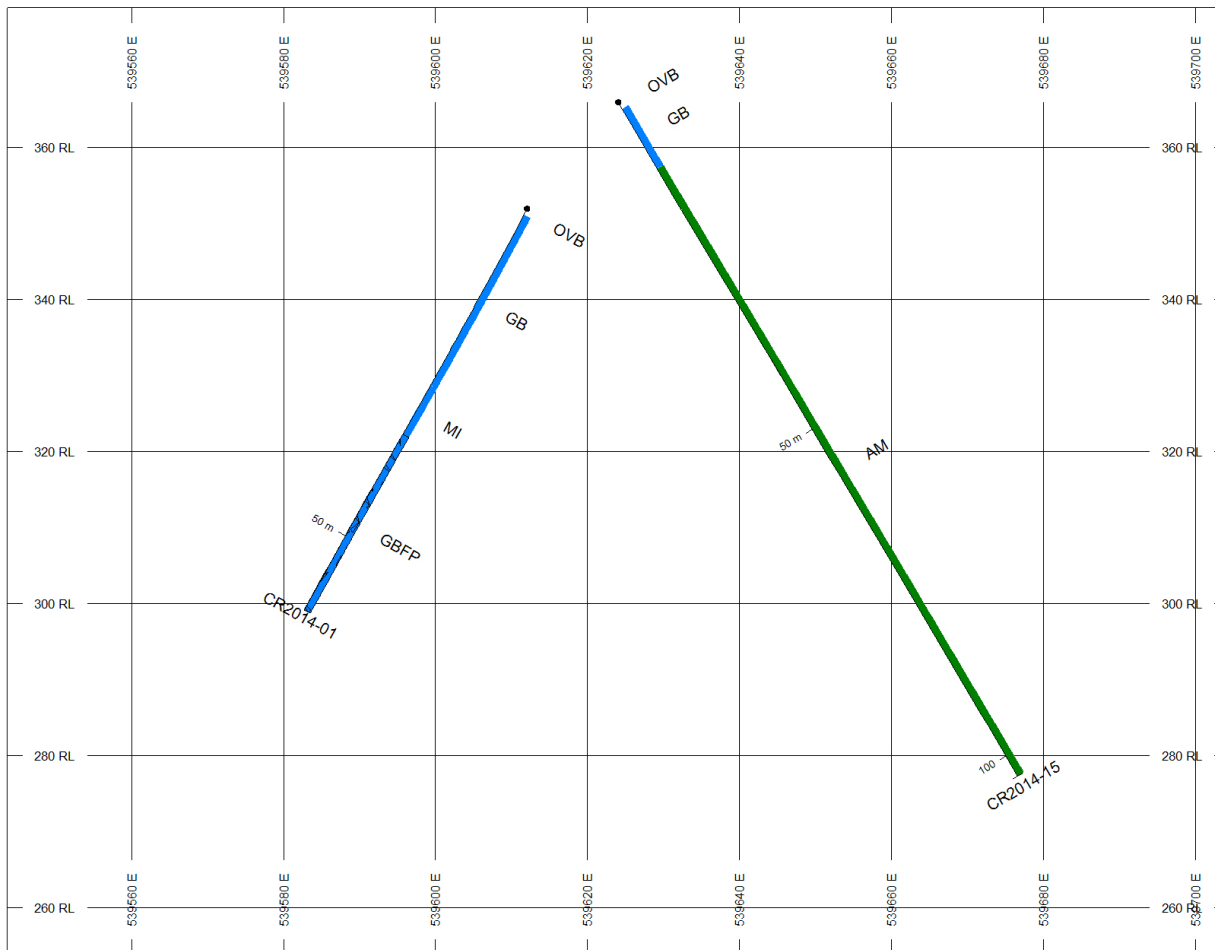
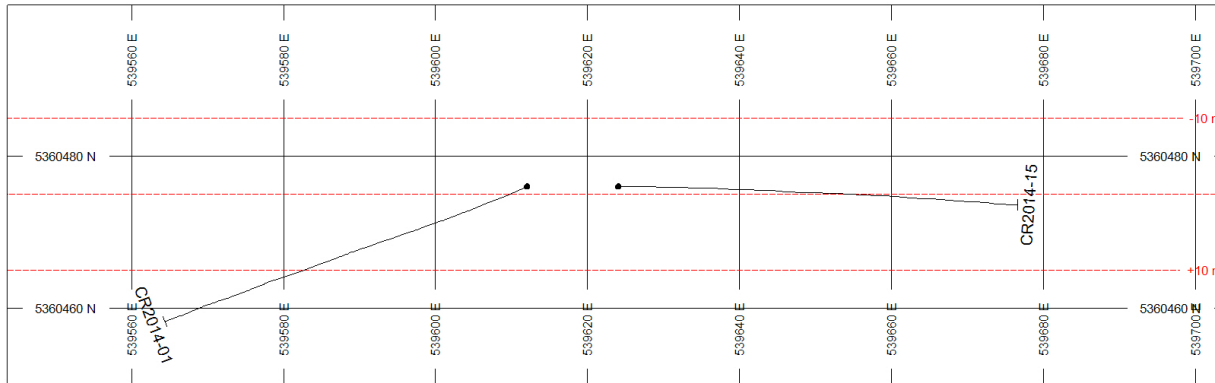
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RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539923 m	5359396 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	372.5 m	247.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-14 & 16

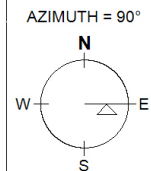
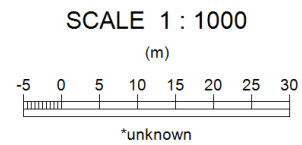


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode	AM	AM	Amphibolite
	GB	GB	Gabbro
	GBFP	GBFP	Gabbro, Porphyritic
	MI	MI	Mafic Intrusive
	OVB	OVB	Overburden

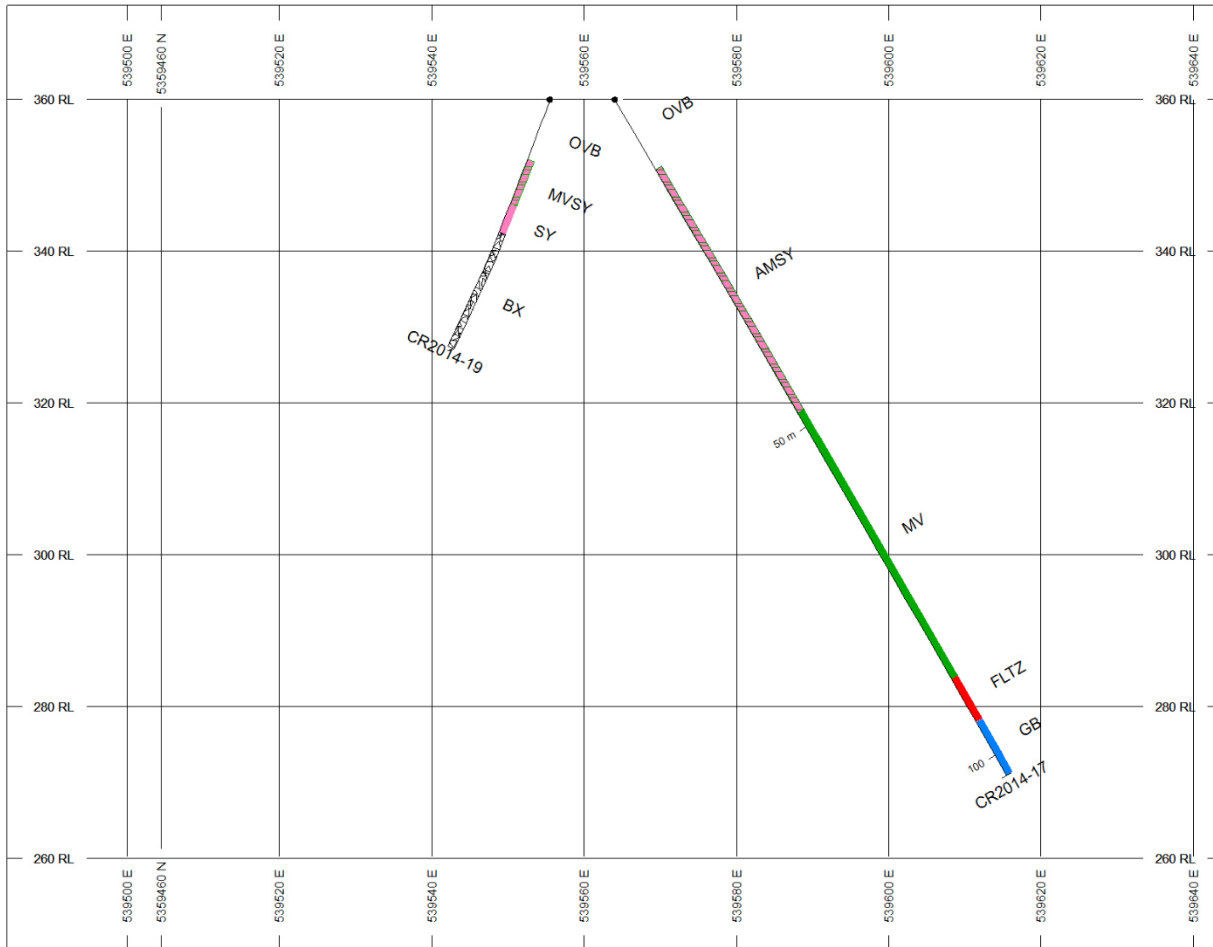
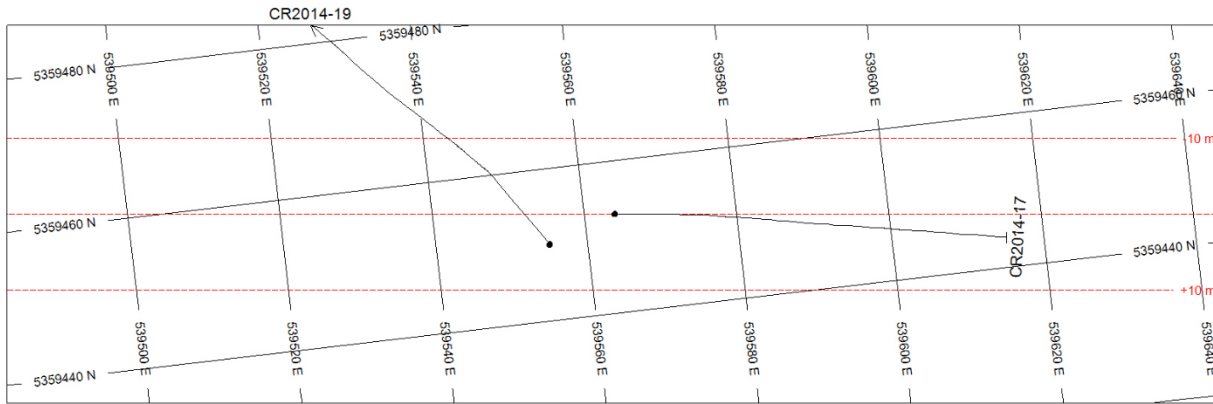
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539624 m	5360475 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-15

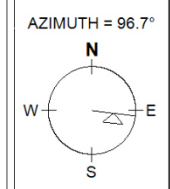
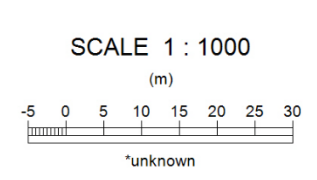


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		BX	breccia
		AMSY	Amphibolite + Syenite
		FLTZ	Fault Zone
		GB	Gabbro
		MV	Mafic Volcanic
		MVSY	Mafic Volcanic + Syenite
		OVB	Overburden
		SY	Syenite

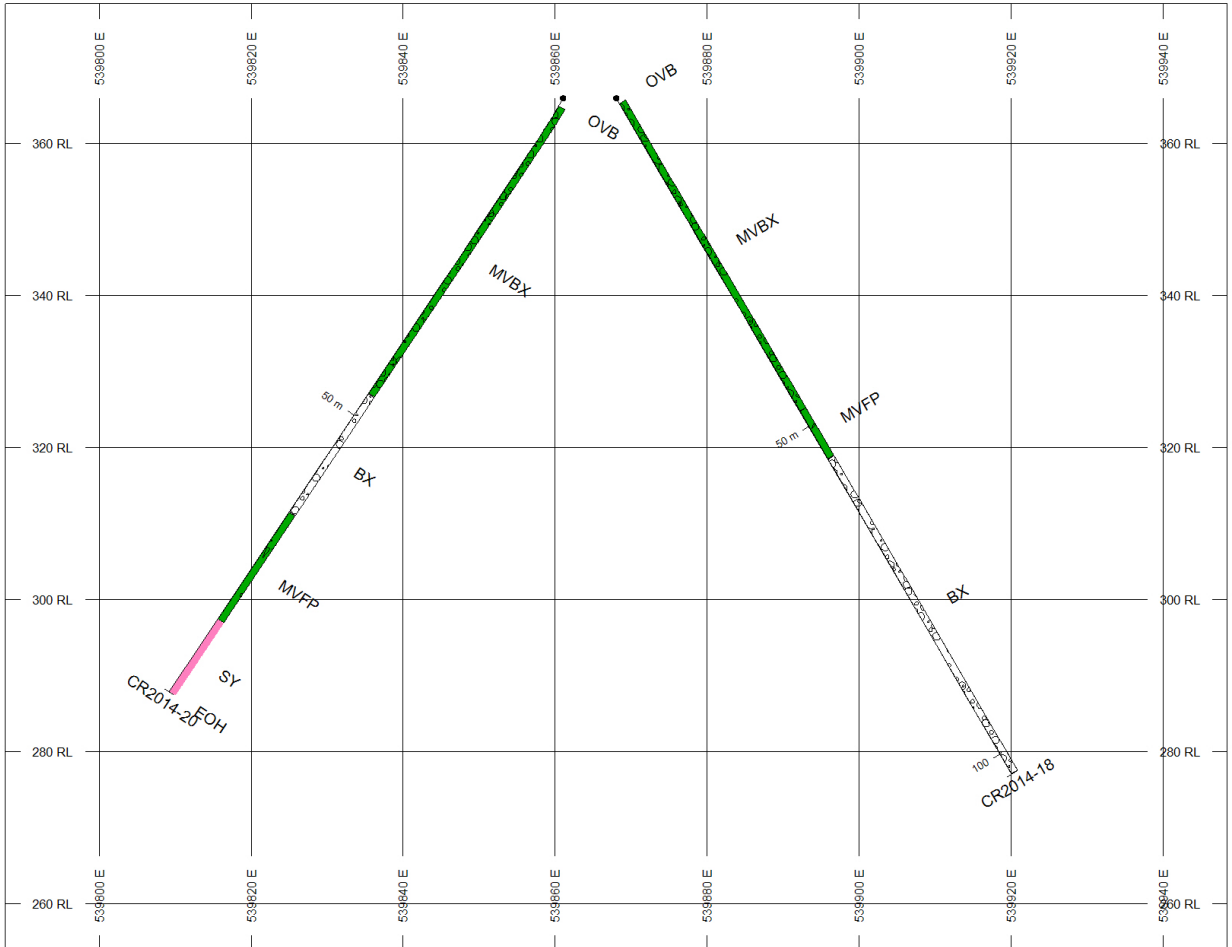
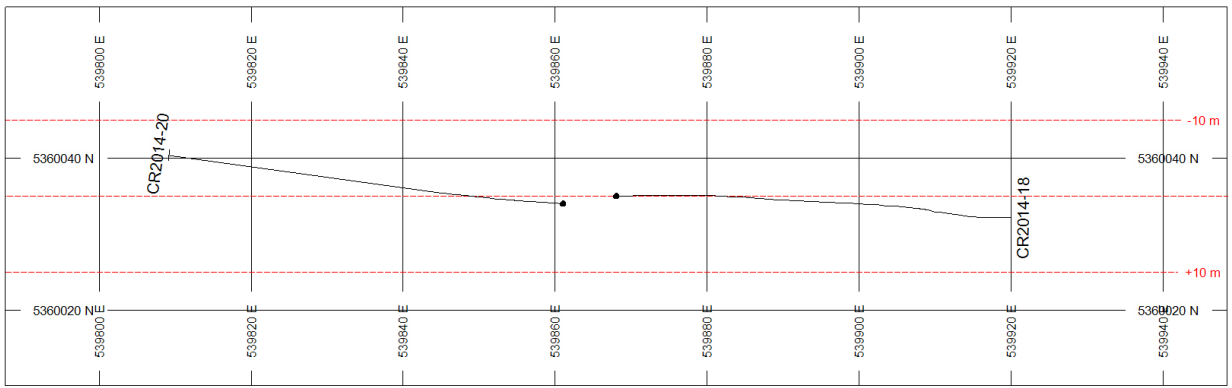
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539564 m	5359453 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	372.5 m	247.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
DH CR2014-17

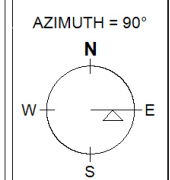
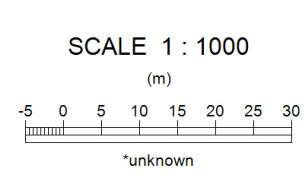


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		BX	Breccia
		EOH	
		MVBX	Mafic Volcanic Breccia
		MVFP	Mafic Volcanic, Porphyritic
		OVB	Overburden
		SY	Syenite

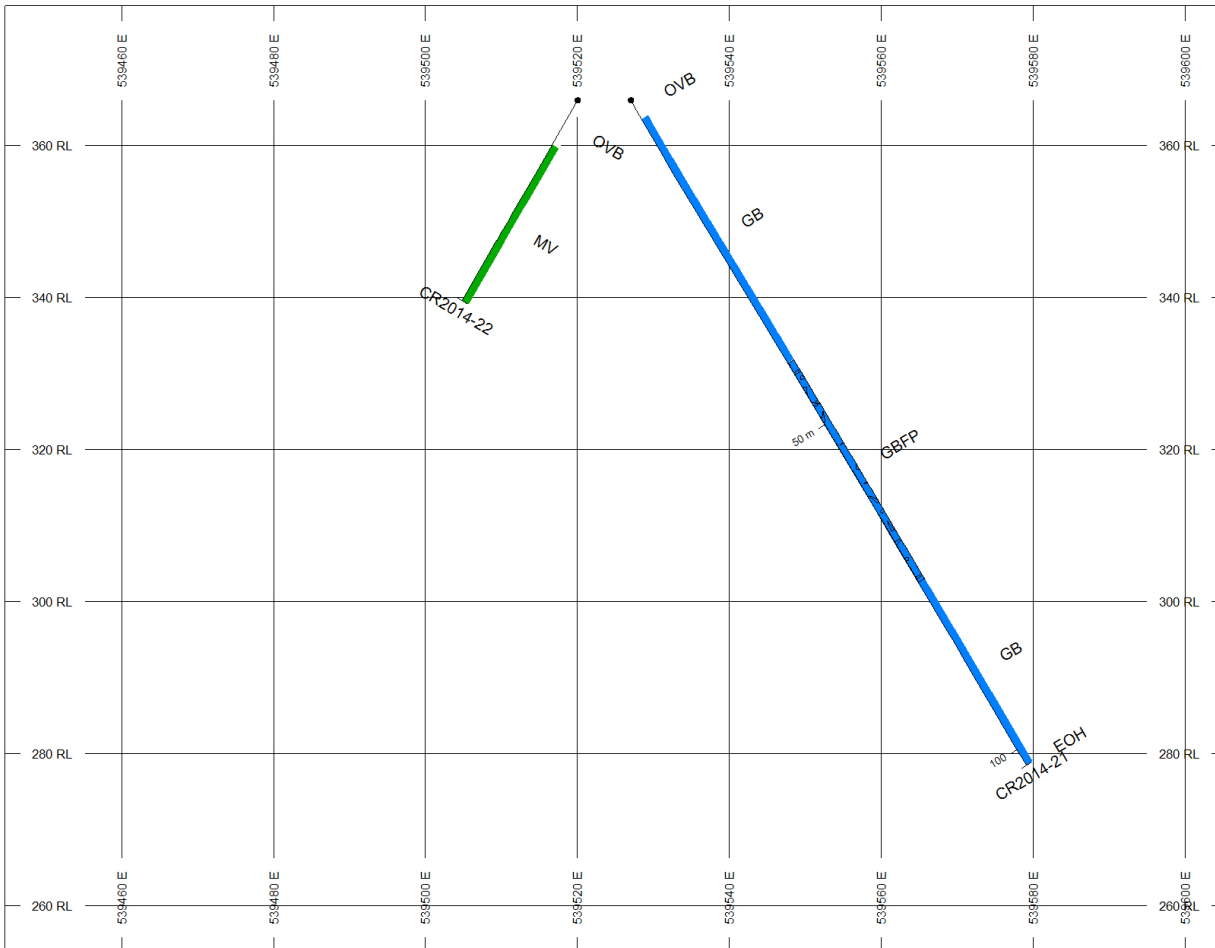
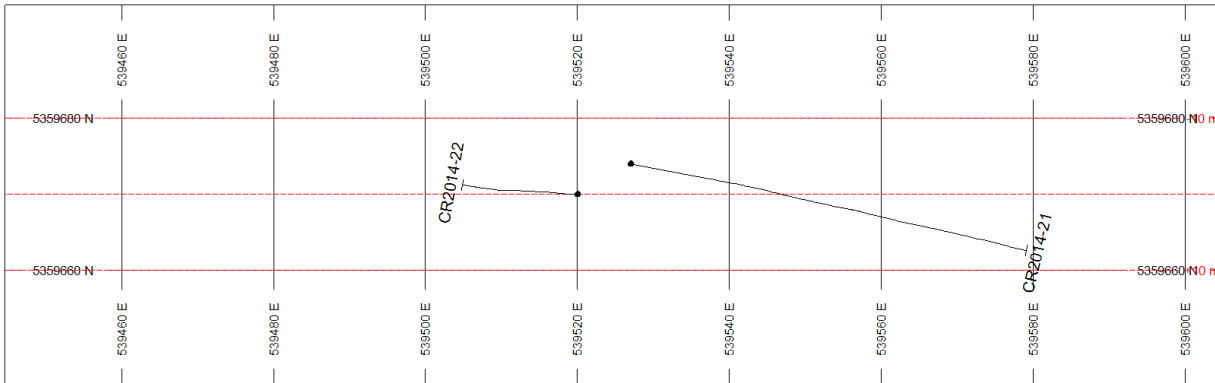
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539868 m	5360035 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-18 & 20

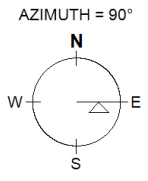
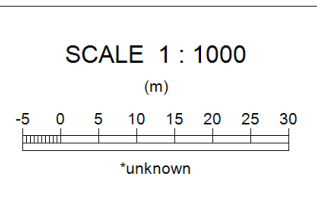


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		EOH	
		GB	Gabbro
		GBFP	Gabbro, Porphyritic
		MV	Mafic Volcanic
		OVB	Overburden

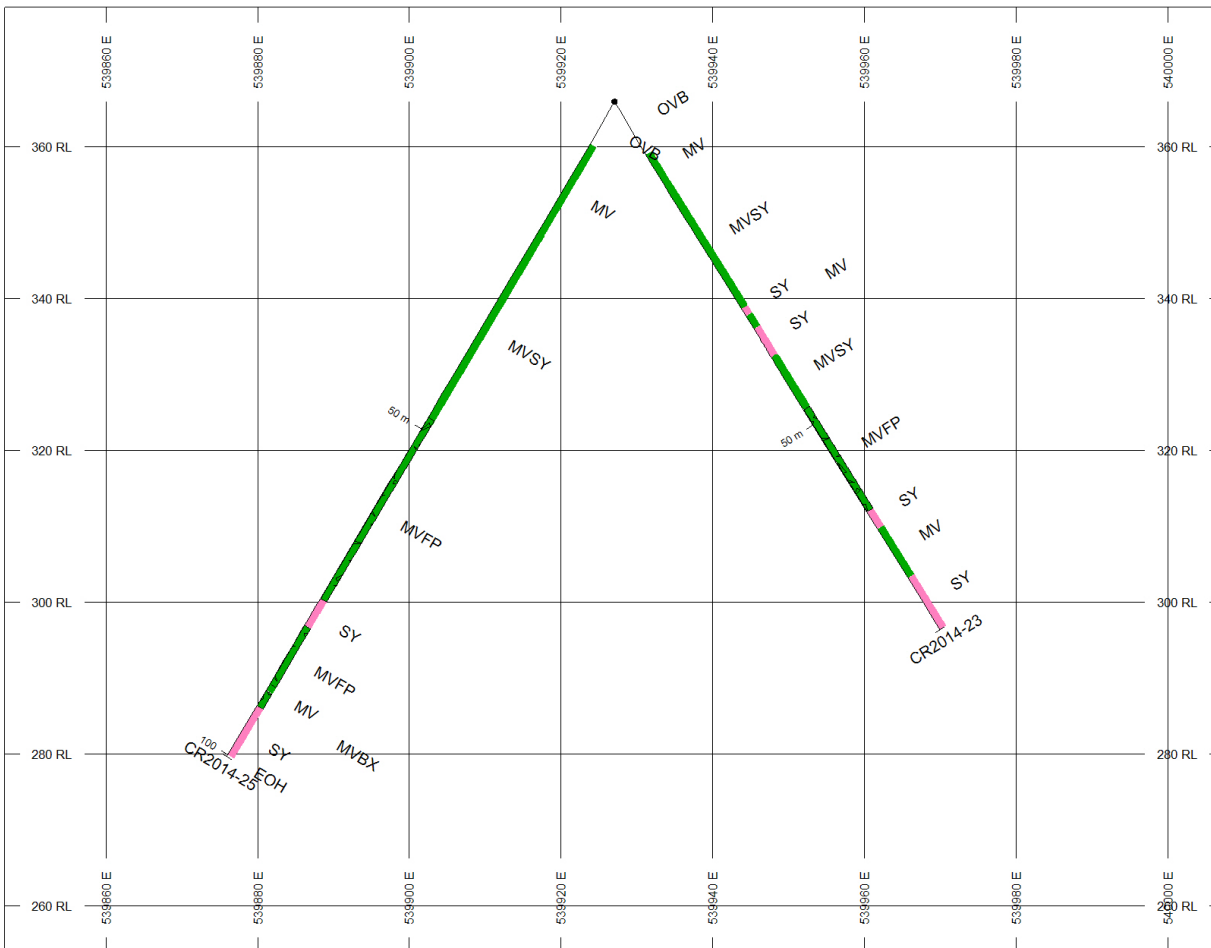
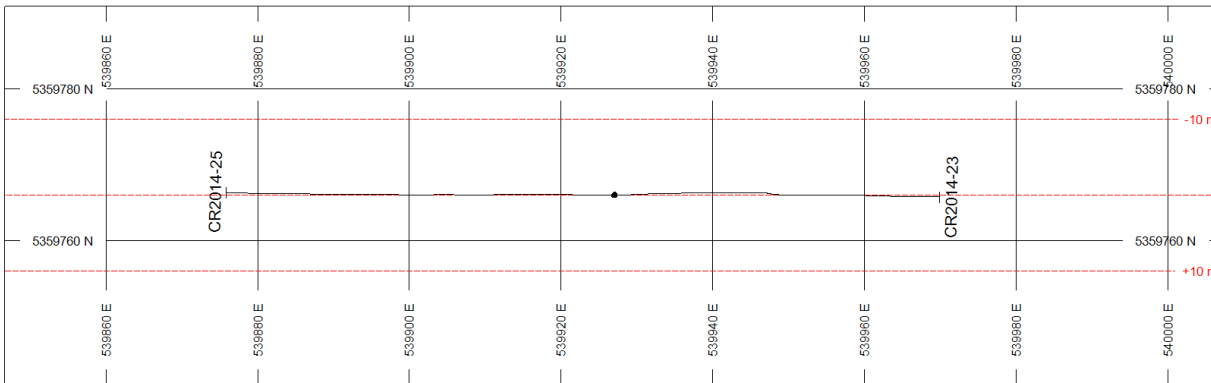
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539525 m	5359670 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-21 & 22

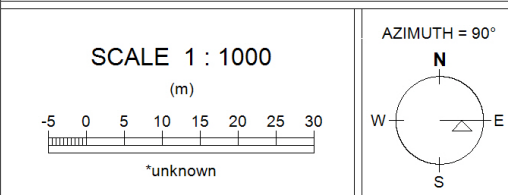


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		EOH	
		MV	Mafic Volcanic
		MVBX	Mafic Volcanic Breccia
		MVFP	Mafic Volcanic, Porphyritic
		MVSY	Mafic Volcanic + Syenite
		OVB	Overburden
		SY	Syenite

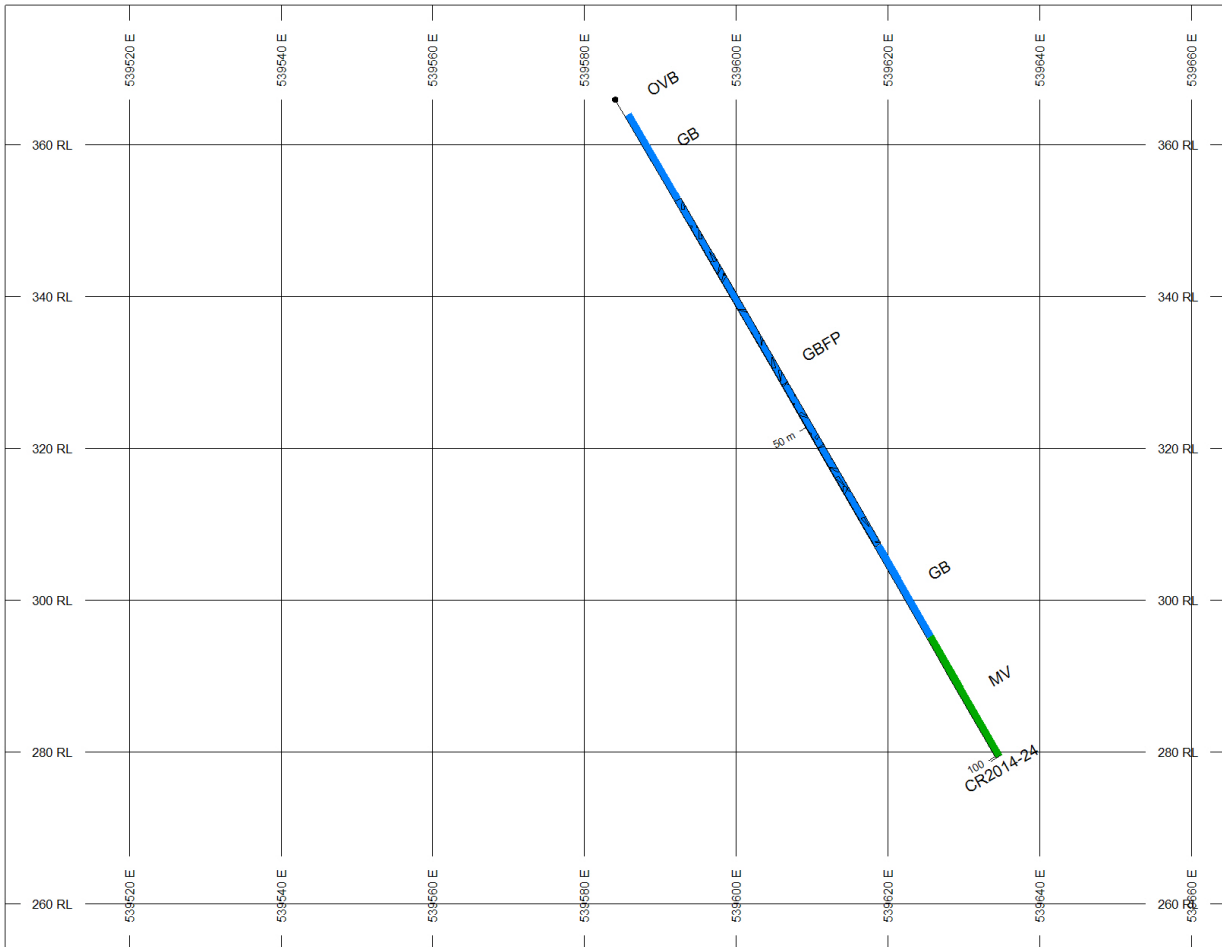
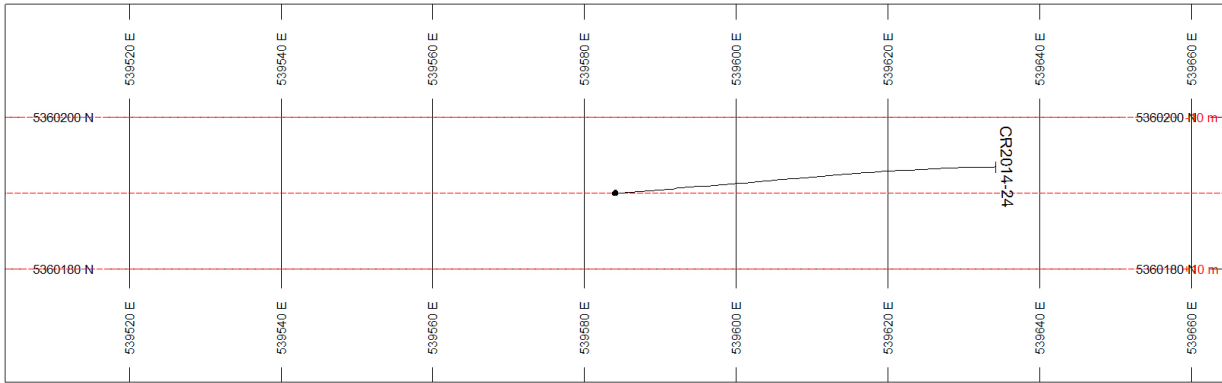
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539927 m	5359766 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-23 & 25

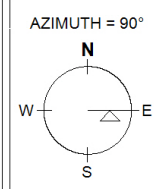
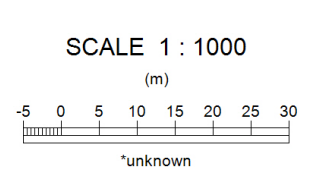


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		GB	Gabbro
		GBFP	Gabbro, Porphyritic
		MV	Mafic Volcanic
		OVB	Overburden

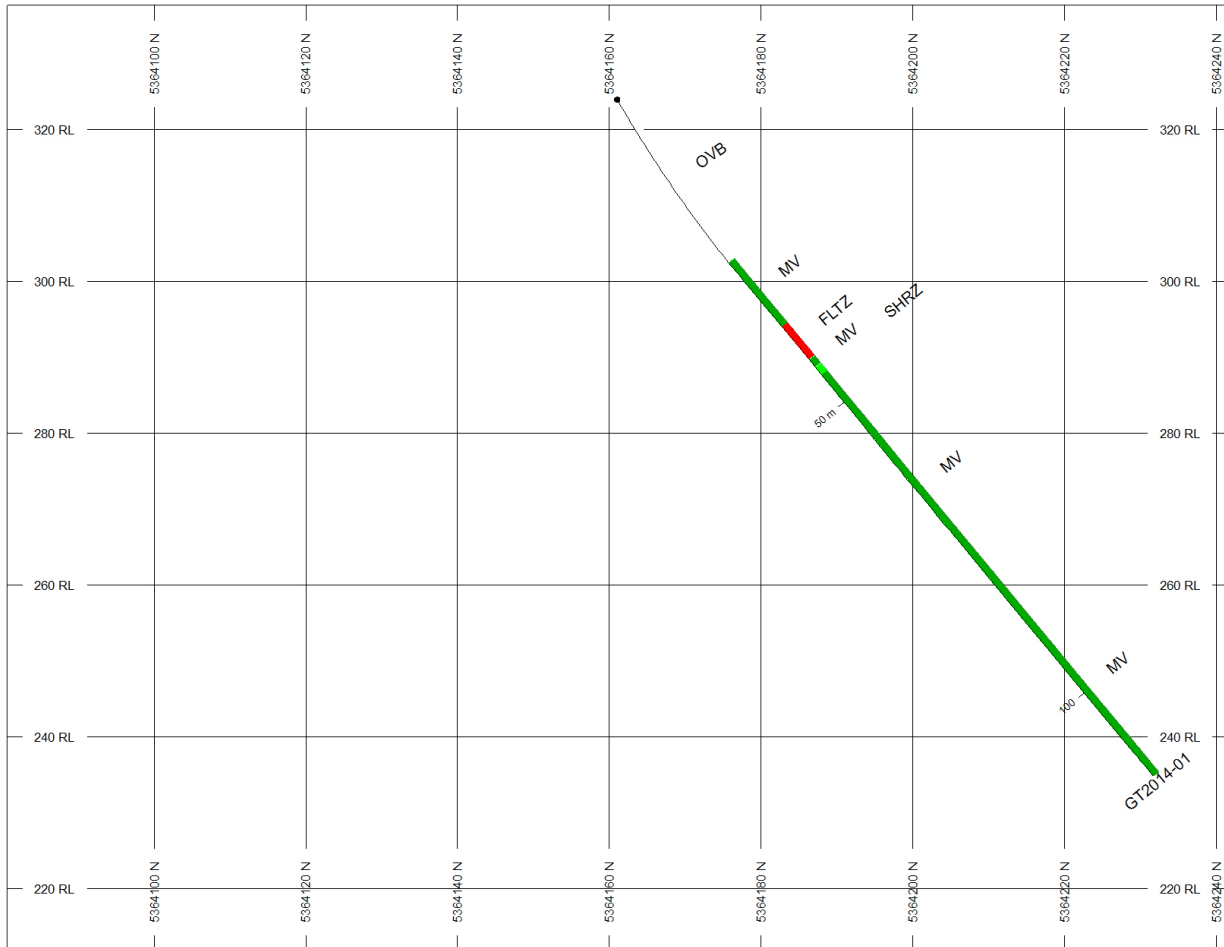
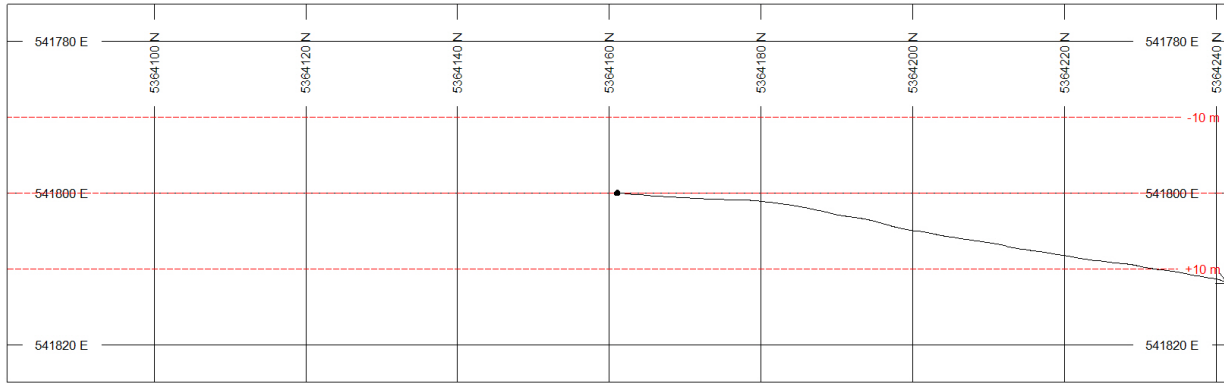
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	539584 m	5360190 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	378.5 m	253.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
CR2014-24

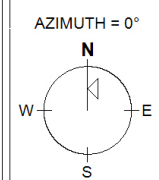
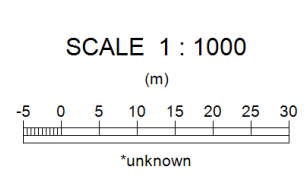


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		BX	Breccia
		FLTZ	Fault Zone
		GRPH	Graphitic Zone
		MV	Mafic Volcanic
		OVB	Overburden
		SHRZ	Shear Zone

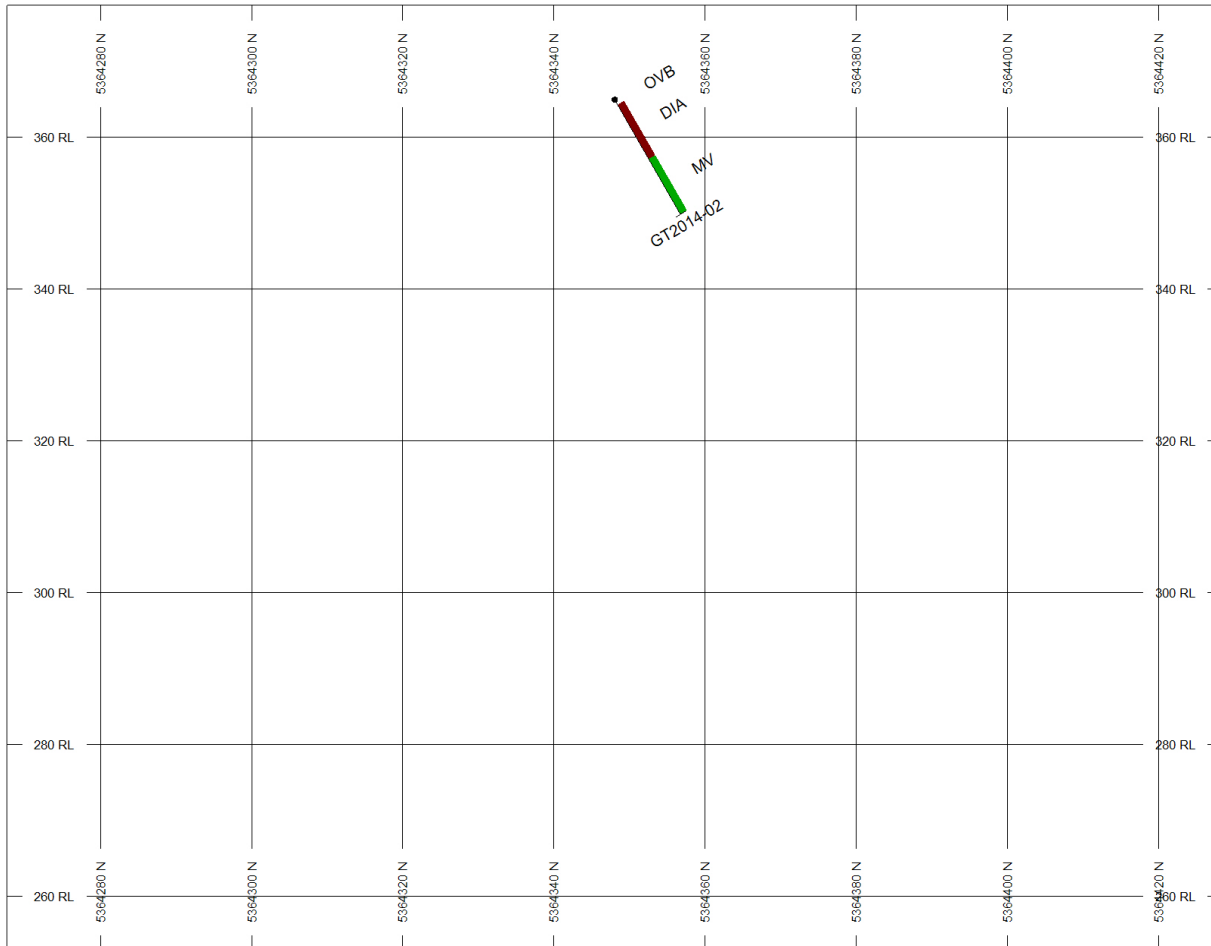
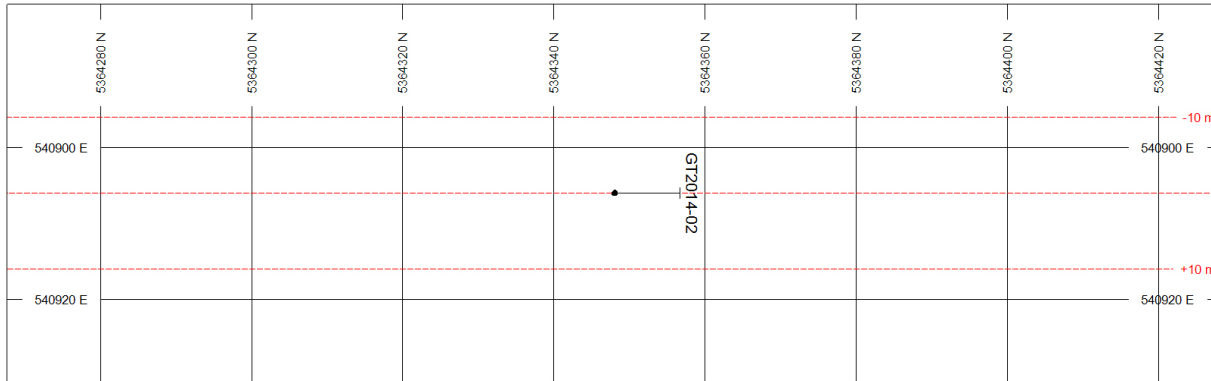
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All



SECTION SPECS:

REF. PT. E, N	541800 m	5364161 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	336.5 m	211.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
 GT2014-01

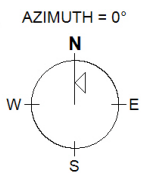
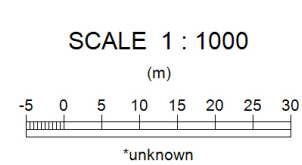


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		DIA	Diabase
		MV	Mafic Volcanic
		OVB	Overburden

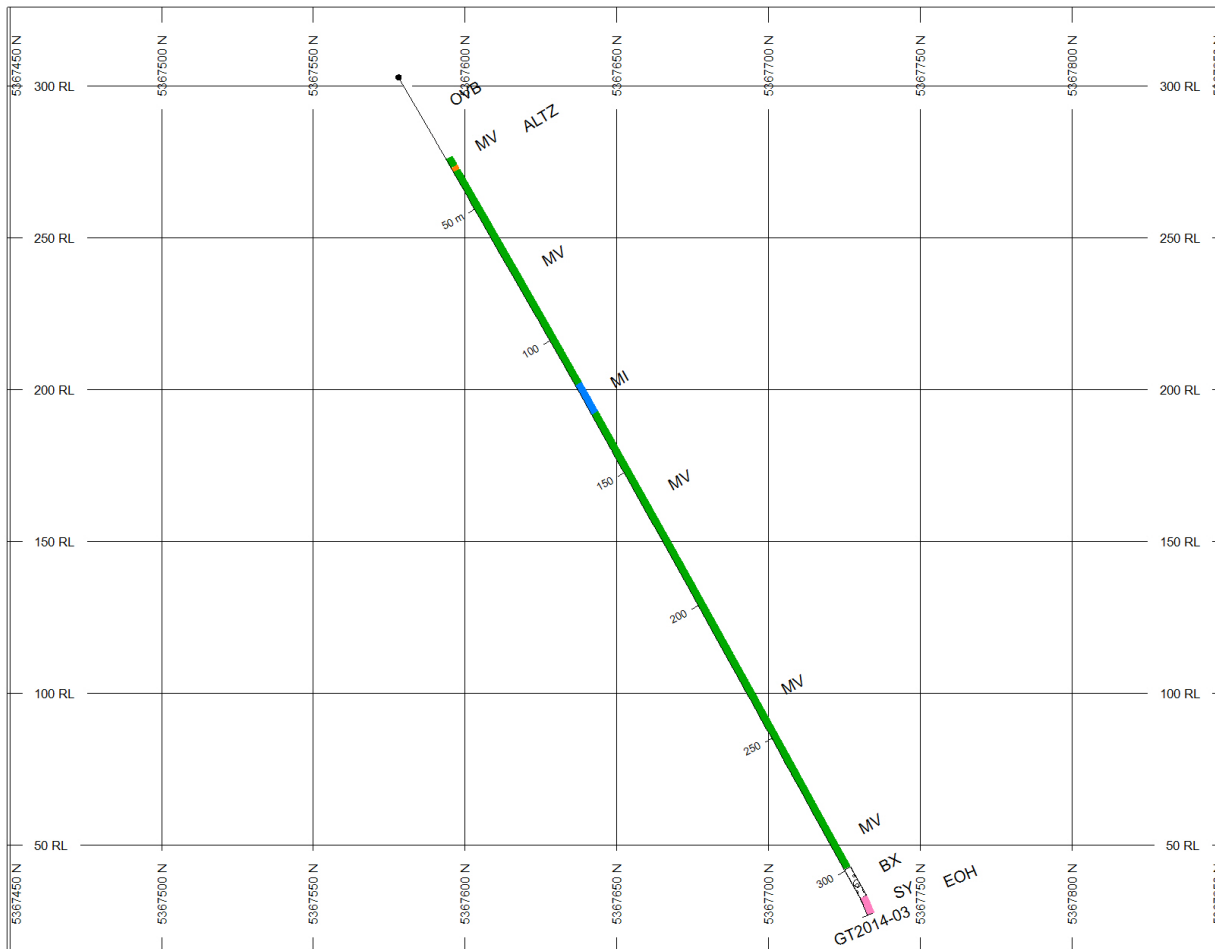
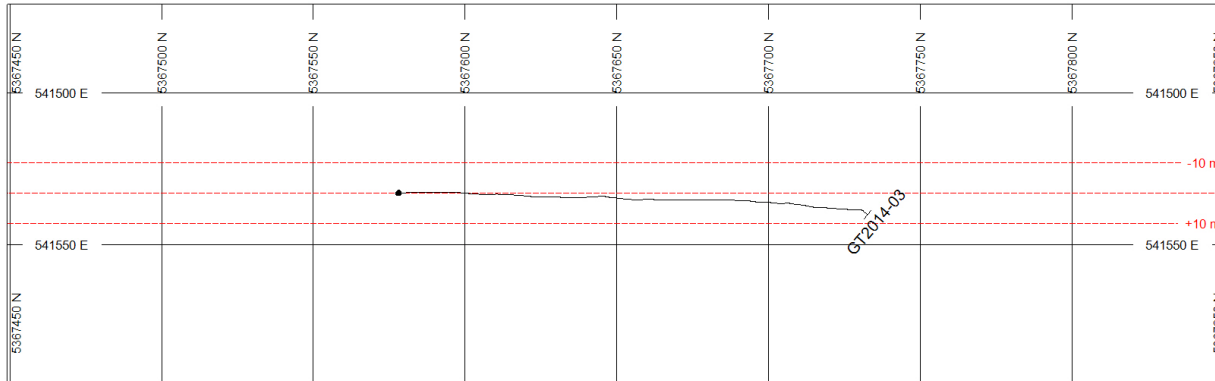
POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	540906 m	5364348 m
EXTENTS	160.8 m	124.6 m
SECTION TOP, BOT	377.5 m	252.9 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
GT2014-02

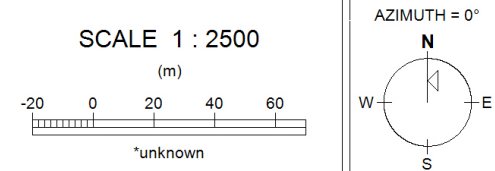


ROCK CODES	PAT	LABEL	DESCRIPTION
RockCode		ALTZ	Altered Zone
		BX	Breccia
		MI	Mafic Intrusive
		MV	Mafic Volcanic
		OVB	Overburden
		SY	Syenite

POSTED TEXT	L/R	TEXT	ITEMS
RockCode	R	-----	All

SECTION SPECS:

REF. PT. E, N	541533 m	5367650 m
EXTENTS	402 m	311.4 m
SECTION TOP, BOT	326.1 m	14.71 m
TOLERANCE +/-	10 m	



GOOD Mining Exploration
CanREE Drilling
GT2014-03

Appendix D

ELRFS ‘Original’ Assay Certificates

***See attached PDF documents containing
ELRFS Original Assay Certificates**

(Certificates GMI14-001 to GMIV14-030)

Appendix E

ELRFS ‘Revised’ Assay Certificates

***See attached PDF documents containing
ELRFS Revised Assay Certificates**

(Certificates GMI14-001-2 to GMIV14-030-2)

Appendix F

ELRFS Performance Review

***See attached Excel documents containing
ELRFS Performance Review**

- 1) ELRFS QAQC Performance**
- 2) ELRFS Standard Values**
- 3) Can Met-LKSD-3**
- 4) Can Met-PTM-1a**
- 5) Can Met-RTS-3a**
- 6) Can Met-SU-1b**

Appendix G

Swastika Lab Fire Assay Results

***See attached Excel documents containing
Swastika Lab Fire Assay Results**

(Job Numbers 14-829 to 14-1017)

Sample	Date	Easting	Northing	Description	Au_gpt	Comment	Claim
30210	2014-Jul-30	541235	5365353	dark green fine mafic volcanic with Epi veins	-0.001		4273033
30211	2014-Jul-30	541229	5365109	dark green fine mafic volcanics, thin Qtz	-0.001		4273033
30212	2014-Jul-30	541196	5365080	fine grain mafic volcanics	-0.001		4273033
30213	2014-Jul-30	540460	5365816	dark green fine mafic volcanics, thin Qtz	-0.001		4277123
30214	2014-Aug-04	541909	5366594	dark green medium grain mafic volcanics	-0.001		4273033
30215	2014-Aug-04	541820	5365093	medium grain mafic volcanics,thin Epi/Qtz veins	-0.001		4273033
30216	2014-Aug-04	541827	5365260	fine mafic volcanics,thin Qtz.Trace Py	-0.001		4273033
30217	2014-Aug-04	541825	5365442	fine mafic volcanics,Trace Py	-0.001		4273033
30218	2014-Aug-04	541885	5365941	fine grain greenish rock with foliations. (Agnormerite?)	-0.001		4273033
30219	2014-Aug-04	541807	5366605	medium grain diabase with thin epidote and Qtz veins. trace Py	-0.001		4273033
30220	2014-Aug-04	541758	5366271	coarse grain diabase, parallel epidote veins, trace Py	-0.001		4273033
30221	2014-Aug-04	541758	5366135	coarse grain diabase	-0.001		4273033
30222	2014-Aug-04	541741	5366106	fine mafic volcanic	-0.001		4273033
30223	2014-Aug-04	541830	5365934	fine mafic volcanic, trace Py	-0.001		4273033
30224	2014-Aug-04	541760	5365703	coarse grain disbase, trace Py	-0.001		4273033
30225	2014-Aug-04	541728	5365265	coarse grain disbase, trace Py	-0.001		4273033
30226	2014-Aug-06	541719	5366350	fine grain mafic volcanics, gradational change to coarse grain, trace Py	-0.001		4273033
30227	2014-Aug-06	541712	5366222	coarse grain volcanics, diabase, para. Epi veins.	-0.001		4273033
30228	2014-Aug-06	541709	5366019	coarse grain diabase, trace Py	-0.001		4273033
30229	2014-Aug-06	541691	5365896	coarse grain diabase, trace Py	-0.001		4273033
30230	2014-Aug-06	541694	5365767	medium grain mafic diabase, trace Py	-0.001		4273033
30231	2014-Aug-06	541658	5365742	fine grain mafic volcanics with pinkish felsic inclusions	-0.001		4273033
30232	2014-Aug-06	541695	5365655	greenish mafic volcanics, Epi veins, trace Py	-0.001		4273033
30233	2014-Aug-06	541652	5365551	greenish mafic volcanics, meidum grain, Epi veins	-0.001		4273033
30234	2014-Aug-06	541643	5365475	coarse grain greenish mafic volcanics, trace Py	-0.001		4273033
30235	2014-Aug-06	541607	5365491	fine grain mafic volcanics, weak shearing/layering, 166 degrees strike? Py mineralization along Qtz vein	-0.001		4273033
30236	2014-Aug-06	541740	5365348	mafic volcanics with felsic phenocrysts, fine grain Py mineralization	-0.001		4273033
30237	2014-Aug-06	541681	5365222	fine grain mafic volcanics, trace Py	-0.001		4273033
30238	2014-Aug-06	541681	5365187	coarse grain diabase	-0.001		4273033
30239	2014-Aug-07	541646	5365644	CG Diabase	-0.001		4273033
30240	2014-Aug-07	541639	5365618	FG mafic volcanics, trace Py	-0.001		4273033
30241	2014-Aug-07	541603	5365317	FG mafic volcanics,0.5% Py, 1cm para. Qtz veins	-0.001		4273033
30242	2014-Aug-07	541613	5365305	CG Diabase	-0.001		4273033
30243	2014-Aug-07	541637	5365299	FG mafic volcanics, 0.5% Py, thin Qtz vein	0.008		4273033
30244	2014-Aug-07			FG mafic volcanics, 1cm Para.Qtz veins	-0.001		4273033
30245	2014-Aug-09	541545	5365247	FG mafic volcanics,0.5% Py, trace Cpy	0.006		4273033
30246	2014-Aug-10	541395	5365482	FG mafic volcanics,trace Py,laminated	-0.001		4273033
30247	2014-Aug-10	541401	5365226	CG Diabase	-0.001		4273033
30248	2014-Aug-12	541256	5365122	CG MG diabase, trace Py	0.002		4273033
30249	2014-Aug-12			FG mafic volcanics,1% Py, laminated, 6cm Qtz vein	-0.001		4273033
30250	2014-Aug-12	541328	5365406	MG FG mafic volcanics, 6cm Qtz vein, 0.5%Py	-0.001		4273033
32151	2014-Aug-16	540524	5364478	MG Fg mafic volcanics, trace Py	-0.001		4273035
32152	2014-Aug-16	540463	5364350	MG CG mafic volcanics, thin Qts veins, trace Py	-0.001		4273035
32153	2014-Aug-16	540509	5364115	FG mafic volcanics, 4 inches Qtz vein, 0.5% Py	-0.001		4273035
32154	2014-Aug-16	540555	5364755	FG MG mafic volcanics, trace Py	-0.001		4273035
32155	2014-Aug-17	540652	5364647	FG mafic volcanics, 0.5 cm Qtz vein	0.027		4273035
32156	2014-Aug-17	540612	5364351	FG mafic volcanics,thin Qtz/Epi veins, trace Py	0.011		4273035
32157	2014-Aug-17	540644	5364174	FG mafic volcanics, thin Qtz/Epi veins, 2% Py, layered	0.01		4273035
32158	2014-Aug-17	540721	5364249	FG MG mafic volcanics, trace Py, thin Qtz vein	0.006		4273035
32159	2014-Aug-17	540719	5364455	CG Diabase, 20% biotite, trace Py	0.009		4273035
32160	2014-Aug-17	540740	5364721	FG mafic volcanics, 1cm Qtz/Epi veins, 5% Py	0.003		4273035
32161	2014-Aug-18	540815	5364683	FG mafic volcanics, thin Qtz, 1cm Epi, 2-5% Py	0.006		4273035
32162	2014-Aug-18	540824	5364335	FG mafic volcanics, thin Qtz vein, 2% Py	-0.001		4273035

32163	2014-Aug-18	540910	5364307	FG mafic volcanics, highly silicified, Qtz gash, 2 % Py	0.379		4273035
32164	2014-Aug-18	540929	5364520	FG mafic volcanics, thin Qtz, 2%-5% Py	0.02		4273035
32165	2014-Aug-18	540936	5364600	FG mafic volcanics, Qtz veins, 2-5% Py	0.007		4273035
32166	2014-Aug-20	541263	5365418	FG mafic volcanics, 1 inch Qtz/Epi vein, 2% Py, Breccia	0.003		4273033
32167	2014-Aug-21	542036	5364205	FG mafic volcanics, Para.Qtz veins, 4 inches eyeball structure,	-0.001		4273035
32168	2014-Aug-22	541143	5364368	FG mafic volcanics, thin Qtz, 3-5% Py	-0.001		4273035
32169	2014-Aug-23	541025	5364588	MG mafic volcanics, 2% Py	-0.001		4273035
32170	2014-Aug-23	541014	5364126	MG CG mafic volcanics, 1 cm Qtz, 2% Py	-0.001		4273035
32171	2014-Aug-23	541138	5364269	FG mafic volcanics, Qtz veins, 5% Py	-0.001		4273035
32172	2014-Aug-24	541307	5364667	CG mafic intrusive, thin Qtz, 0.5% Py	-0.001		4273035
32173	2014-Aug-24	541213	5364865	FG mafic volcanics, para. 1cm Qtz/Epi veins, 5-10% Py	0.157		4273035
32174	2014-Aug-25	541227	5364671	MG mafic intrusive, thin Epi veins, trace Py, strong magnetic	-0.001		4273035
32175	2014-Aug-25	541229	5364537	FG mafic volcanics, weak silicified, 3-5% Py, abundant Qtz/Epi veins	-0.001		4273035
32176	2014-Aug-25	541282	5364133	MG mafic intrusives	0.005		4273035
32177	2014-Aug-25	541343	5364275	MG mafic intrusives, trace Py	-0.001		4273035
32178	2014-Aug-25	541340	5364340	FG sheared mafic volcanics, weak silicification, 5-10% Py	-0.001		4273035
32179	2014-Aug-26	541442	5364855	FG sheared mafic volcanics, weak silicification, 2-5% Py, 1cm para. Qtz vein	-0.001		4273035
32180	2014-Aug-26	541475	5364686	FG mafic volcanics, weak silicification, Qtz/Epi veins, trace Py	-0.001		4273035
32181	2014-Aug-26	541424	5364609	FG mafic volcanics, weak silicified, 2% Py, Qtz/Epi veins	-0.001		4273035
32182	2014-Aug-26	541507	5364368	FG MG mafic volcanics, 2% Py, weak silicification	-0.001		4273035
32183	2014-Aug-26	541544	5364192	FG mafic volcanics, abundant twisted thin Qtz veins, 2% Py	-0.001		4273035
32184	2014-Aug-27	541627	5364876	FG sheared mafic volcanics, 2% Py	-0.001		4273035
32185	2014-Aug-27	541625	5364532	FG mafic volcanics, trace Py	-0.001		4273035
32186	2014-Aug-27	541610	5364309	FG, MG mafic volcanics/intrusives, 3% Py	0.087		4273035
32187	2014-Aug-28	541729	5364604	FG mafic volcanics, 2% Py, Qtz/sericite veins	0.01		4273035
32188	2014-Aug-28	541816	5364550	FG sheared mafic volcanics, 6cm calcite vein, 1% Py	0.129		4273035
32189	2014-Aug-28	541868	5364612	FG mafic volcanics/altered volcanics, 2-5%Py, 1cm Qtz	0.026		4273035
32190	2014-Aug-29	541601	5365432	FG mafic volcanics, para. Epi veins, 10% Py in two fractures(recorded as Aug29 CS-1)	0.013		4273033
32191	2014-Aug-29	541636	5365390	6-20cm Qtz vein btw FG mafic volcanics and rhyolite, 2% Py (recorded as Aug 29 FR-1,2)	0.009		4273033
32192	2014-Sep-03	540944	5364608	1% Py in ractures in fine to medium grain mafic volcanics. Trace Epi.	0.024	May say 32193 in field	4273035
32193	2014-Sep-04	541224	5367756	pit rubble.2-6cm dirty white Qtz vein with 1% Py cubes in fine grain green mafic volcanics. (HS) weak shearing (10cm zone) fine mafic volcanics with 3mm Epi vein. Layering structure with roughly 5mm per layer. Rust color on every layer surface.	0.014	Says 32198 in field	4277124
32194	2014-Sep-04	541261	5367719	Disseminated/cubic Py is 0.5-1% in volcanics. Right beside a 3cm chert zone (110 degrees and 82 degrees dipping)	0.01	Sep04-OC1	4277124
32195	2014-Sep-04	541261	5367719	Pit rubble.2-7cm Qtz vein with para. dark green fractures along the vein. Rust color on fine mafic volcanics. Py in fractures within Qtz vein and in volcanics. 1-3% in Qtz vein and 0.5% in volcanics.(HS)	0.021		4277124

32196	2014-Sep-04	541261	5367719	Pit rubble. 8-12cm Qtz vein with fine mafic volcanics. 4mm calcite vein found in Qtz (pink). Overall Py is 3-5% in the sample. 10% Py found in a 1 inch mafic volcanics ridge to Qtz. 1-2% Py in one side of the Qtz vein.	0.017	4277124
32197	2014-Sep-04	541261	5367719	Pit rubble. 8-15cm Qtz vein with little fine mafic volcanics on the edge. Dark blue veins and irregular calcite veins (3mm) found within Qtz. 2% overall Py. 15% Py on one small fracture surface. 1% Py for most Qtz veins. 10% Py on one side of volcanics along the Qtz vein in another piece of rock.	0.016	4277124
32198	2014-Sep-11	541899	5364652	FG sheared mafic volcanics, 3cm Qtz, para.Qtz/Epi veins, 3-5% Py	0.014	4273035
32199	2014-Sep-11	541931	5364544	FG sheared mafic volcanics, 3cm Qtz, 10% Py in fractures	0.044	4273035
32200	2014-Sep-11	541900	5364546	5 cm Qtz hosted by FG weak sheared mafic volcanics,red/orange color,Epi veins, 2% Py recorded as 32163B in field. 2-3% Py in rusty fractures in dirty grey Qtz veins(109 degrees)-some Epi in fractures (HS)	0.018	4273035
32801	2014-Sep-11	540910	5364307	recorded as 32163C in field. 1-1.5% Py in FG sugary Qtz vein with minor Epi on fractures @110 degrees	0.195	4273035
32802	2014-Sep-11	540910	5364307	recorded as 32163D in field. Rusty dirty grey Qtz with trace Py @110 degrees	0.323	4273035
32803	2014-Sep-11	540910	5364307	recorded as 32163E in field. Minor Py in rusty Epi rich 1m zone@10 degrees, perpendicular to Qtz vein @ 105 degrees.	0.023	4273035
32804	2014-Sep-11	540910	5364307	FG sheared mafic volcanics, para. Qtz, 5% Py in rust, trace Cpy	0.1	4273035
32805	2014-Sep-12	542122	5364853	30cm chert vein in FG sheared mafic volcanics,3-5% Py		4273034
32806	2014-Sep-12	542177	5364369	FG mafic volcanics, Qtz chunks, trace Py, Qtz/Epi veins		4273034
32807	2014-Sep-13	542387	5364129	fine mafic volcanics, 3cm Qtz/Epi veins		4273034
32808	2014-Sep-17	542615	5364244	highly silicified mafic rusty volcanics, trace Py and Epi veins inside Qtz veins (boulder?)		4273035
32809	2014-Sep-28	541918	5364291	silicified mafic volcanics, 0.5-1% Py in total, hard, light grey (HS)		4273035
32810	2014-Sep-28	541504	5367801		near L21W	4277124
32811	2014-Sep-28	540743	5364365	boulder,2-4% Py in rusty, FG, light grey, Brittle, Volcanics, very magnetic (HS)		4273035
40958	2014-Sep-28	541940	5366590	angular boulder,FG rusty mafic volcanics, 3-5% Py in total (HS)	-0.001	4273033
40959	2014-Sep-28	541890	5365824	check whether gold is in this rock type. boulder on L17W picket, N of 4273033 claim.		4273033
40960	2014-Sep-28	541675	5368176	FG mafic volcanics, 1cm Qtz, 0.5% cubic Py in total (HS)	-0.001	4273033
40961	2014-Sep-28	541674	5368171	15 cm Qtz rubble,MG silicified mafic volcanics, 5cm Qtz/Epi veins, 1% Py	-0.001	4277124
40962	2014-Sep-28	541659	5368182	A 1m Qtz pod in Qtz vein	-0.001	4277124
40963	2014-Oct-04	540913	5364348	FG silicified mafic volcanics, strong magnetic, 5-10% Py on fractures, 2% in total	-0.001	4277124
				fine mafic dark granular volcanics, interstitial epi around mafic grains with concentraion higher than 20%, <1% Py in total	-0.001	4273035

40964	2014-Oct-04	540900	5364350	Qtz vein up to 15cm width,N-S oriented. White sugary, greynish and yellowish color on the Qtz. 5% Py in Epi fractures,<1% Py in total. Py is fine grain disseminated. Rusty fractures observed. Some dark green spots in the Qtz (chlorite?).	-0.001		4273035
40965	2014-Oct-05	541528	5367792	very minor Py in dark green fractures in light greenish grey chert bed; minor hematite fractures. chert is abt 1m wide on south edge of the outcrop near old pits and next to silicified, fractured volcanic rocks. chert strikes at 150 degrees, dipping 90 degrees. (HS)	-0.001	northern 4277124 near pits	4277124
40966	2014-Oct-05	541528	5367828	light salmon pink chert with light green or red(hematite) fractures. 0.25%-0.5% Py in fractures. Some light grey chert. (strike 115 degrees, dip 70 degrees south?) (HS)	-0.001		4277124
40967	2014-Oct-05	541528	5367828	light grey & dark grey fine mafic volcanics beside the chert zone. Disseminated Py abt 25 in total. Weak magnetic.	-0.001	northern 4277124 near pits	4277124
40968	2014-Oct-05	541528	5367828	light grey fine mafic volcanics. some pink throwout fractures(hematite alter.?) Disseminated Py in 1mm width veins. abt 15 in total. Weak magnetic.	-0.001	northern 4277124 near pits	4277124
40969	2014-Oct-05	541424	5368060	an outcrop by the trench. fine mafic volcanics, thin & small Qtz/Epi veins. 1-2% Py in total. moderate magnetic.	-0.001	northern claim, old trench area	4277124
40970	2014-Oct-05	541424	5368060	trench rubble. Fine mafic Volcanics, weakly banded,fine & coarse disseminated Py with some cubes, 15% in total. Moderate strong magnetic.		northern claim, old trench area	4277124
40971	2014-Oct-05	541424	5368060	trench rubble. fine grain dark green mafic volcanics. Slightly sheared with light green talcose, slickensides. Some possible dark green throwout. minor Py <1%. Py is confined to 4-5mm dark green "band". Volcanic rock softer than usual. Moderate strong magnetic. (HS)		northern claim, old trench area	4277124
40972	2014-Oct-05	541424	5368060	trench rubble. Dark grey Fine mafic volcanics, "banded" Py with the thicknes of 2-5 mm of each "band". parallel. subparallel discontinuous veins, appearing bands. 25% Py in total. moderate strong magnetic. (HS)		northern claim, old trench area	4277124
40973	2014-Oct-05	541424	5368060	trench rubble. Dark grey fine mafic volcanics with 6cm Qtz vein. Trace Epi along the vein. Py shows in veins in fmw which is >15% and disseminated in Qtz abt 2%. Weak magnetic	-0.001	northern claim, old trench area	4377124
40974	2014-Oct-05	541424	5368060	trench rubble. Dark grey mafic volcanics, coarse & fine Py, >15% in total. Strong magnetic. (HS)	-0.001	northern claim, old trench area	4277124
40975	2014-Oct-05	541424	5368060	trench rubble. Light grey fine mafic volcanics, fine disseminated "banded" Py, abt 2mm of each "band". > 15% Py in total.Weak magnetic. (HS)	-0.001	northern claim, old trench area	4277124
40976	2014-Oct-05	541424	5368060	trench rubble. Dark grey fine mafic volcanics. weakly "banded" fine disseminated Py abt 20% in total. traces of malachite. Moderate strong magnetic.	-0.001	northern claim, old trench area	4277124
40977	2014-Oct-05	541530	5367830	<0.5% Py in fractures in slightly hetatized mafic volcanicsnext to the pink chert	-0.001	northern claim, old trench area	4277124
40978	2014-Oct-05	541120	5364364	fine grain gery, rusty mafic volcanic angular rubble with 2% disseminated Py in fractures. next to final access raod to GT1.	-0.001	recorded as Oct2-1 in field	4273035
40979	2014-Oct-05	540900	5364350	(HS)	-0.001		4273035
40980	2014-Oct-05	541113	5364244	silicified medium grain mafic intrusive, 5mm high silicified layer, 2% Py in total (HS)	-0.001	recorded as 093 in GPS	4273035
40981	2014-Oct-05	541248	5365453	Qtz gash (?), 140 strike, SM	-0.001		4273033

Good township Canree L00

NAA 24.0 KHZ

LineNumber	StationID	X	Y	Z	In-Phase	OutPhase	
0	0+20E		539423	5359767	333	36	-8
0	0+40E		539439	5359765	334	42	-4
0	0+60E		539457	5359762	339	40	-4
0	0+80E		539481	5359766	342	36	-8
0	1+00E		539500	5359763	344	42	-6
0	1+20E		539522	5359766	343	44	-10
0	1+40E		539540	5359764	350	44	-10
0	1+60E		539555	5359768	352	26	-8
0	1+80E		539578	5359766	362	16	-10
0	2+00E		539598	5359768	367	16	-12
0	2+20E		539620	5359769	372	26	-8
0	2+40E		539640	5359763	373	28	-8
0	2+60E		539658	5359765	373	32	-6
0	2+80E		539682	5359765	374	20	-8
0	3+00E		539703	5359765	371	36	-4
0	3+20E		539723	5359767	366	36	-4
0	3+40E		539742	5359766	362	16	0
0	3+60E		539762	5359763	360	30	0
0	3+80E		539782	5359762	358	26	-8
0	4+00E		539801	5359762	358	26	-2
0	4+20E		539821	5359758	349	26	-6
0	4+40E		539842	5359759	349	16	-6
0	4+60E		539859	5359760	346	14	-6
0	4+80E		539883	5359759	345	16	-4
0	5+00E		539903	5359765	347	20	2
0	5+20E		539922	5359768	348	20	4
0	5+40E		539941	5359767	346	8	4
0	5+60E		539962	5359772	346	12	8
0	5+80E		539980	5359769	341	10	6
0	6+00E		540000	5359774	339	14	6

Good Township Canree L1N

NAA 24.0 KHZ				NAA			
LineNumber	StationID	X	Y	Z	In-Phase	OutPhase	
1N	1+00E		539510	5359937	349	10	-4
1N	1+20E		539525	5359934	350	16	-6
1N	1+40E		539543	5359932	357	16	-4
1N	1+60E		539566	5359933	362	-2	-6
1N	1+80E		539585	5359933	364	4	-6
1N	2+00E		539605	5359935	365	10	-2
1N	2+20E		539625	5359939	372	10	-4
1N	2+40E		539647	5359937	372	12	-4
1N	2+60E		539661	5359937	374	-2	-4
1N	2+80E		539680	5359934	375	10	4
1N	3+00E		539705	5359934	378	8	2
1N	3+20E		539726	5359937	380	8	0
1N	3+40E		539746	5359940	375	8	6
1N	3+60E		539765	5359939	368	4	6
1N	3+80E		539786	5359939	365	6	10
1N	4+00E		539805	5359936	365	8	4
1N	4+20E		539824	5359939	361	14	0
1N	4+40E		539848	5359940	352	4	8
1N	4+60E		539866	5359939	354	6	6
1N	4+80E		539885	5359935	349	-10	-2
1N	5+00E		539906	5359939	339	-10	-2
1N	5+20E		539928	5359937	346	-16	2
1N	5+40E		539944	5359940	336	10	-6
1N	5+60E		539966	5359941	340	4	-4
1N	5+80E		539984	5359941	337	-16	4
1N	6+00E		540004	5359941	333	-16	2

Good Township L18W

1< VLF STATION

NAA

24.0< VLF STATION FREQUENCY

2< VLF STATION

NML

25.2< VLF STATION FREQUENCY

LineNu	StationID	X	Y	Z	NAA		NML		
					InPhase	OutPhase	InPhase	OutPhase	
L18W	58+00	541801	5363980	328	45	9	37	7	
L18W	57+75	541800	5364004	327	35	3	33	-4	Mv
L18W	57+50	541807	5364030	322	47	2	43	-2	Mv
L18W	57+25	541806	5364055	323	52	2	50	-7	
L18W	57+00	541804	5364079	321	76	6	70	0	
L18W	56+75	541804	5364105	320	75	-1	70	-6	
L18W	56+50	541805	5364128	318	75	-2	57	-5	
L18W	56+25	541800	5364154	319	53	-5	52	-6	
L18W	56+00	541800	5364180	320	26	-8	24	-10	
L18W	55+75	541804	5364203	318	32	-7	28	-10	
L18W	55+50	541803	5364230	319	15	-4	13	-4	
L18W	55+25	541800	5364254	319	7	0	3	2	
L18W	55+00	541802	5364281	322	-2	5	-2	4	
L18W	54+75	541806	5364304	320	-10	8	-13	9	
L18W	54+50	541807	5364329	321	-25	12	-27	10	
L18W	54+25	541799	5364351	321	-47	9	-47	9	
L18W	54+00	541803	5364382	321	-57	8	-60	7	
L18W	53+75	541804	5364404	319	-57	6	-58	6	
L18W	53+50	541801	5364431	320	-55	4	-54	4	
L18W	53+25	541805	5364454	321	-42	5	-42	3	
L18W	53+00	541800	5364480	323	-33	5	-35	6	
L18W	52+75	541804	5364504	325	-33	4	-35	2	
L18W	52+50	541806	5364525	326	-31	2	-33	2	
L18W	52+25	541803	5364555	326	-24	2	-23	0	Mv
L18W	52+00	541805	5364579	327	-17	3	-20	4	
L18W	51+75	541804	5364604	327	-11	4	-12	3	
L18W	51+50	541804	5364630	325	2	8	0	5	
L18W	51+25	541794	5364655	326	7	8	4	7	
L18W	51+00	541793	5364681	323	10	10	8	10	
L18W	50+75	541802	5364710	316	19	16	17	12	
L18W	50+50	541810	5364727	321	31	20	27	19	
L18W	50+25	541807	5364754	321	33	14	32	12	
L18W	50+00	541804	5364779	319	32	5	28	5	
L18W	49+75	541806	5364806	320	25	-2	25	-3	dry swamp
L18W	49+50	541801	5364830	319	20	-4	21	-6	swamp
L18W	49+25	541802	5364854	319	14	-5	15	-6	swamp
L18W	49+00	541805	5364878	320	2	-5	3	-6	
L18W	48+75	541806	5364905	321	-13	-11	-12	-12	
L18W	48+50	541797	5364929	314	-26	-19	-19	-24	

L18W	48+25	541799	5364954	319	-7	-13	-4	-16
L18W	48+00	541802	5364980	309	2	-8	0	-4
L18W	47+75	541805	5365015	313	-7	-5	-5	-6
L18W	47+50	541806	5365029	312	-11	-8	-9	-10
L18W	47+25	541808	5365055	312	-7	-10	-6	-13
L18W	47+00	541807	5365080	313	2	-6	2	-7
L18W	46+75	541811	5365105	313	6	-4	6	-4
L18W	46+50	541808	5365129	313	12	-4	13	-8
L18W	46+25	541811	5365154	313	7	-6	9	-4
L18W	46+00	541807	5365178	312	7	-5	8	-6
L18W	45+75	541806	5365204	312	5	-6	5	-9
L18W	45+50	541807	5365228	313	1	-8	0	-9
L18W	45+25	541805	5365255	312	3	-10	3	-10
L18W	45+00	541805	5365281	313	6	-9	6	-10
L18W	44+75	541804	5365305	311	9	-9	9	-9
L18W	44+50	541805	5365330	310	10	-7	10	-10
L18W	44+25	541801	5365354	310	3	-12	2	-14
L18W	44+00	541802	5365380	313	4	-13	5	-14
L18W	43+75	541808	5365404	312	3	-11	4	-14
L18W	43+50	541813	5365431	312	12	-11	9	-10
L18W	43+25	541808	5365454	315	15	-10	13	-10
L18W	43+00	541805	5365480	312	21	-10	18	-10
L18W	42+75	541804	5365500	312	13	-10	11	-10
L18W	42+50	541807	5365530	311	23	-4	20	-8
L18W	42+25	541809	5365555	309	20	-3	21	-2
L18W	42+00	541808	5365580	308	12	-10	4	-12
L18W	41+75	541804	5365604	309	0	-8	2	-16
L18W	41+50	541807	5365629	310	3	-10	3	-9
L18W	41+25	541805	5365654	310	10	-6	8	-6
L18W	41+00	541803	5365680	311	15	-6	18	-10
L18W	40+75	541804	5365704	310	22	-6	19	-3
L18W	40+50	541801	5365730	310	25	-4	25	-3
L18W	40+25	541804	5365753	312	28	-2	27	-4
L18W	40+00	541805	5365780	312	24	-3	23	-3
L18W	39+75	541801	5365804	312	10	0	8	-2
L18W	39+50	541800	5365829	312	-20	0	-22	2
L18W	39+25	541802	5365855	313	-22	0	-22	-7
L18W	39+00	541795	5365881	316	-20	2	-22	5
L18W	38+75	541801	5365904	318	-18	6	-19	4
L18W	38+50	541803	5365930	319	-18	6	-17	4
L18W	38+25	541800	5365953	321	-15	6	-19	6
L18W	38+00	541797	5365979	321	-12	8	-14	8
L18W	37+75	541802	5366005	319	-5	12	-9	6
L18W	37+50	541808	5366030	316	-4	11	-7	9
L18W	37+25	541805	5366052	313	-2	10	-5	7
L18W	37+00	541803	5366080	311	2	-12	0	-11
L18W	36+75	541801	5366104	312	2	10	0	10

L18W	36+50	541799	5366130	313	2	10	0	8
L18W	36+25	541792	5366155	313	5	11	3	9
L18W	36+00	541790	5366181	311	4	10	5	9
L18W	35+75	541788	5366204	312	1	8	-1	6
L18W	35+50	541785	5366229	312	-3	6	-4	5
L18W	35+25	541779	5366254	312	-7	4	-6	2
L18W	35+00	541775	5366280	312	-5	4	-6	2

Good Township L22W

1< VLF STATION

NAA

24.0< VLF STATION FREQUENCY

2<VLF STATION

NML

25.2<VLF STATION FREQUENCY

LineNu	StationID	X	Y	Z	NAA Maine		NML Dakota		
					InPhase	OutPhase	InPhase	OutPhase	
L22W	1+25S	541405	5366849	307	3	1	3	5	
L22W	1+00S	541405	5366875	308	6	2	6	2	
L22W	0+75S	541405	5366900	308	8	5	6	2	bog
L22W	0+50S	541405	5366925	308	6	2	5	2	bog
L22W	0+25S	541405	5366950	309	4	2	4	3	road
L22W	0+00N	541405	5366975	309	3	2	2	2	bog
L22W	0+25N	541405	5367000	309	2	1	0	0	bog
L22W	0+50N	541405	5367025	309	0	0	0	-2	
L22W	0+75N	541403	5367046	309	2	0	1	0	
L22W	1+00N	541402	5367075	309	4	2	5	2	
L22W	1+25N	541400	5367100	308	0	0	0	-1	
L22W	1+50N	541400	5367125	306	0	1	0	1	
L22W	1+75N	541400	5367150	305	2	3	2	2	
L22W	2+00N	541400	5367175	305	1	2	2	2	
L22W	2+25N	541400	5367200	304	1	1	0	0	
L22W	2+50N	541400	5367225	304	2	1	1	3	
L22W	2+75N	541400	5367247	303	6	1	7	0	
L22W	3+00N	541400	5367275	303	2	0	3	-2	
L22W	3+25N	541400	5367300	303	4	0	4	0	
L22W	3+50N	541400	5367325	303	3	0	4	-1	
L22W	3+75N	541400	5367350	303	4	0	3	3	
L22W	4+00N	541400	5367375	303	3	1	4	-1	
L22W	4+25N	541400	5367400	303	4	1	2	2	
L22W	4+50N	541400	5367425	303	6	0	7	0	
L22W	4+75N	541400	5367444	301	10	-2	10	-2	Bog

Good Township L2700W

1< VLF STATION

NAA

24.0< VLF STATION FREQUENCY

2< VLF STATION

NLK

24.8< VLF STATION FREQUENCY

NAA Cutler

NLK Seattle

spruce swamp

L2700W	1+25S	540912	5363941	350	-25	-5	-27	-7 to south
L2700W	1+00S	540908	5363966	350	-16	-2	-17	-3
L2700W	0+75S	540902	5363991	352	-4	5	-5	4
L2700W	0+50S	540909	5364017	356	4	6	3	6
L2700W	0+25S	540908	5364041	357	5	6	3	4
L2700W	0+00N	540904	5364066	358	0	4	-1	4
L2700W	0+25N	540902	5364091	357	-3	2	-3	2
L2700W	0+50N	540891	5364116	358	-10	-2	-10	-3
L2700W	0+75N	540891	5364141	365	-8	-1	-7	-2
L2700W	1+00N	540899	5364165	371	-4	3	-3	0
L2700W	1+25N	540901	5364191	372	0	4	-1	-1
L2700W	1+50N	540899	5364216	365	2	5	1	3
L2700W	1+75N	540899	5364241	373	-7	-1	-7	-5
L2700W	2+00N	540900	5364266	379	-10	-5	-7	-8
L2700W	2+25N	540901	5364291	377	-7	-3	-7	-6
L2700W	2+50N	540902	5364317	382	-1	-2	-2	-2 Quartz Gash
L2700W	2+75N	540909	5364341	382	1	-4	2	-5
L2700W	3+00N	540905	5364365	378	-1	-5	0	-7
L2700W	3+25N	540907	5364392	369	1	-6	1	-4
L2700W	3+50N	540908	5364415	367	0	-5	1	-5
L2700W	3+75N	540913	5364441	373	-3	-8	-2	-8
L2700W	4+00N	540909	5364466	367	1	-8	3	-10
L2700W	4+25N	540911	5364491	366	5	-11	5	-10
L2700W	4+50N	540914	5364515	369	4	-12	4	-13
L2700W	4+75N	540914	5364540	358	5	-14	8	-15
L2700W	5+00N	540915	5364565	352	12	-14	15	-14

Good Township L20W

1< VLF STATION

NAA

24.0< VLF STATION FREQUENCY

2< VLF STATION

NML

25.2< VLF STATION FREQUENCY

3<VLF STATION

NLK

24.8<VLF STATION FREQUENCY

LineNu	StationID	X	Y	Z	NAA Maine		NML Dakota		NLK Seattle	
					InPhase	OutPhase	InPhase	OutPhase	InPhase	OutPhase
L20W	1+00S	541660	5366889	306	-2	-10	-3	-6		
L20W	0+75S	541659	5366906	300	4	-9	3	-12		
L20W	0+50S	541656	5366929	306	5	-5	5	-6		
L20W	0+25S	541661	5366955	312	-3	-5	-2	-20		
L20W	0+00N	541662	5366980	310	-5	-2	-5	-2	-4	-4
L20W	0+25N	541656	5367005	332	2	5	2	5	2	2
L20W	0+50N	541654	5367031	316	4	2	4	2	4	0
L20W	0+75N	541644	5367053	310	17	-2	17	-2	16	0
L20W	1+00N	541637	5367078	307	8	-3	8	-3	8	-3
L20W	1+25N	541628	5367103	310	-2	2	-2	2	-2	2
L20W	1+50N	541613	5367121	309	-12	5	-12	5	-13	4
L20W	1+75N	541603	5367144	311	-12	1	-12	1	-13	1
L20W	2+00N	541595	5367169	309	-3	2	-3	2	-3	5
L20W	2+25N	541582	5367190	307	0	-5	0	-5	0	0
L20W	2+50N	541581	5367217	309	7	0	7	0	7	-1
L20W	2+75N	541575	5367240	311	7	-5	7	-5	8	-1
L20W	3+00N	541571	5367266	311	9	-1	9	-1	9	-2
L20W	3+25N	541574	5367293	312	4	-2	4	-2	5	-6
L20W	3+50N	541577	5367320	313	3	-4	3	-4	3	-2
L20W	3+75N	541577	5367346	311	3	-2	3	-2	3	-1
L20W	4+00N	541582	5367373	311	4	0	4	0	4	0
L20W	4+25N	541580	5367396	308	7	-3	7	-3	7	-4
L20W	4+50N	541579	5367421	310	9	-5	9	-5	8	-5
L20W	4+75N	541575	5367446	310	4	-9	4	-9	4	-8
L20W	5+00N	541573	5367471	309	6	-10	6	-10	7	-7
L20W	5+25N	541566	5367495	306	6	-5	6	-5	6	-2
L20W	5+50N	541553	5367519	309	4	5	4	5	4	5
L20W	5+75N	541540	5367542	313	4	6	4	6	4	7
L20W	6+00N	541529	5367564	314	3	7	3	7	4	10
L20W	6+25N	541519	5367588	307	4	12	4	12	4	10
L20W	6+50N	541513	5367611	307	2	20	2	20	2	16
L20W	6+75N	541504	5367637	314	0	22	0	22	0	20
L20W	7+00N	541501	5367660	312	-7	24	-7	24	-10	21
L20W	7+25N	541494	5367684	313	-10	20	-10	20	-9	22
L20W	7+50N	541490	5367710	310	-24	19	-24	19	-20	20
L20W	7+75N	541489	5367736	306	-88	8	-88	8	-86	10
L20W	8+00N	541510	5367763	302	-72	7	-72	7	-72	7
L20W	8+25N	541507	5367789	299	-52	12	-52	12	-55	15
L20W	8+50N	541513	5367816	316	-32	16	-32	16	-37	16
L20W	8+75N	541522	5367843	319	-28	10	-28	10	-31	15

L20W	9+00N	541525	5367869	310	-26	20	-26	20	-29	18
L20W	9+25N	541528	5367895	318	-24	20	-24	20	-27	18
L20W	9+50N	541530	5367919	319	-13	10	-13	10	-18	20
L20W	9+75N	541537	5367946	316	-10	13	-10	13	-8	18
L20W	10+00N	541538	5367972	313	-5	18	-5	18	-5	19
L20W	10+25N	541538	5367996	314	-3	16	-3	16	-3	16
L20W	10+50N	541541	5368022	310	-10	11	-10	11	-11	4
L20W	10+75N	541546	5368048	306	-6	12	-6	12	-6	14
L20W	11+00N	541548	5368071	317	-5	10	-5	10	-5	9
L20W	11+25N	541550	5368098	305	0	8	0	8	0	8
L20W	11+50N	541549	5368122	304	2	8	2	8	2	8
L20W	11+75N	541551	5368147	309	0	6	0	6	1	6
L20W	12+00N	541547	5368180	304	3	9	3	9	2	6
L20W	12+25N	541545	5368205	299	-2	3	-2	3	-3	5



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Fax: (905) 670-9204

E-mail: geonics@geonics.com

URL: <http://www.geonics.com>

Call → Mike Catalano
Re: VLF service/ upgrades
DR.
Ext 250

OPERATING MANUAL

for

EM16 VLF-EM

June 1997

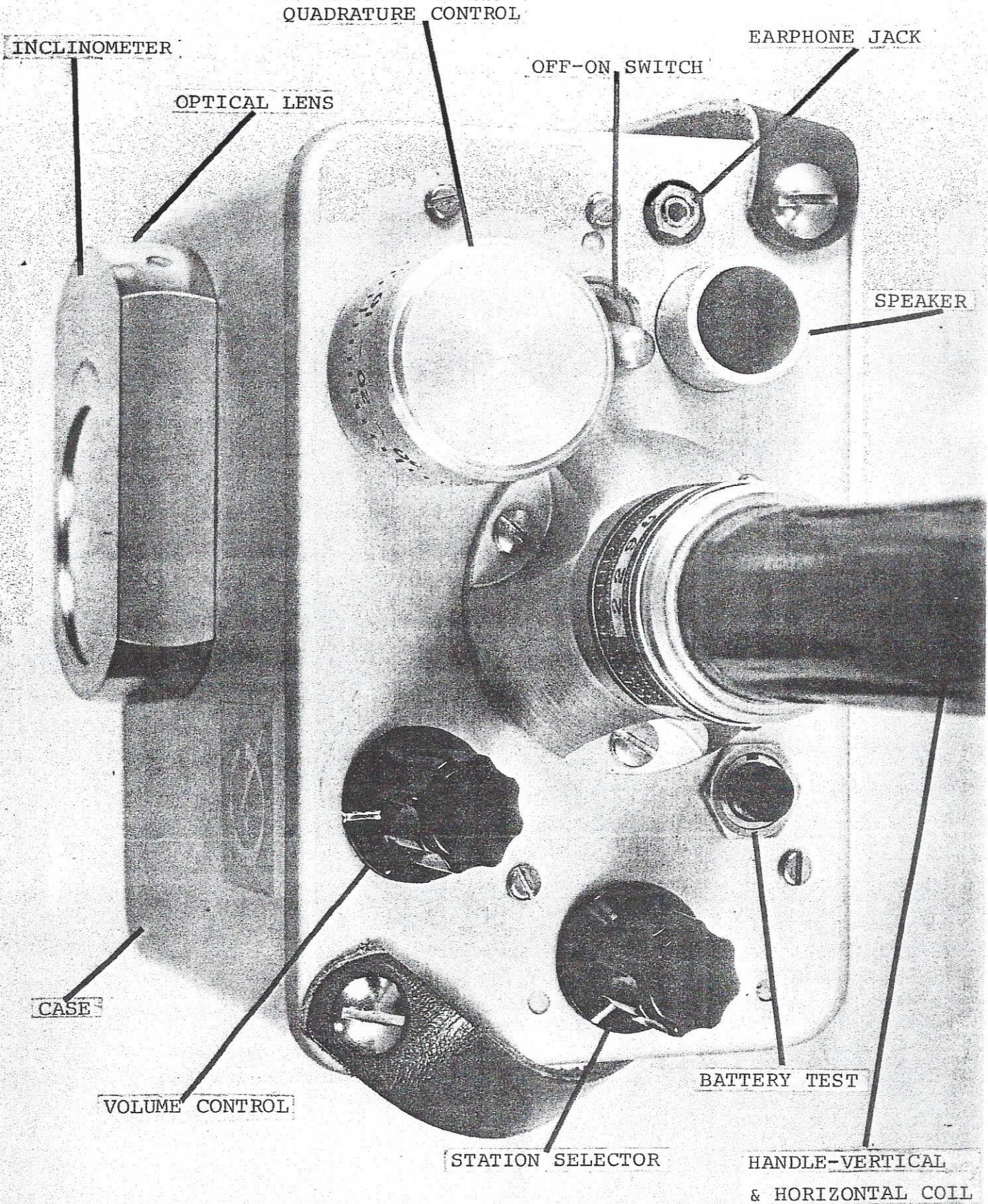
EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: $\pm 150\%$ Quad-phase: $\pm 40\%$
RESOLUTION	$\pm 1\%$
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	53 x 21.5 x 28 cm.
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°C . Warranty does not cover inclinometers damaged by such exposure.

FIG. 1 EM 16



PRINCIPLES OF OPERATION

The VLF-transmitting stations operating for communications with submarines have a vertical antenna. The Antenna current is thus vertical, creating a concentric horizontal magnetic field around them. When these magnetic fields meet conductive bodies in the ground, there will be secondary fields radiating from these bodies. (See Figures 3 & 4). This equipment measures the vertical components of these secondary fields.

The EM16 is simply a sensitive receiver covering the frequency band of the VLF-transmitting stations with means of measuring the vertical field components.

The receiver has two inputs, with two receiving coils built into the instrument. One coil has normally vertical axis and the other is horizontal.

The signal from one of the coils (vertical axis) is first minimized by tilting the instrument. The tilt-angle is calibrated in percentage. The remaining signal in this coil is finally balanced out by a measured percentage of a signal from the other coil, after being shifted by 90° . This coil is normally parallel to the primary field, (See instrument Block Diagram - Figure 2).

Thus, if the secondary signals are small compared to the primary horizontal field, the mechanical tilt-angle is an accurate measure of the vertical real-component, and the compensation $1/2$ -signal from the horizontal coil is a measure of the quadrature vertical signal.

Some of the properties of the VLF radio wave in the ground are outlined by Figures 4 thru 9.

ACCOMPANYING NOTES FOR FIGURES 2 - 9

FIGURE 2 is the block diagram of the EM16. The diagram is self-explanatory. Both the coils (reference and signal coil) are housed in the lower part of the handle. The directions of the axis of the coils are as follows: The reference coil axis is basically horizontal and is kept more or less parallel to the primary field during measurement. The signal coil is at right angles to the reference coil and its axis is, of course, vertical.

The signal amplifier has the two inputs, one connected to the signal coil and one to the reference channel. By tilting the coils, the operator minimizes the signal from the signal (vertical axis) coil. Any remaining signal is reduced to zero by the quadrature control in the reference channel. The signal amplifier has zero output

FIGURE 2 Continued...

when both input signals are equal in amplitude and phase. Thus, the setting of the quadrature control for minimum output from the receiver indicates the relative amount of the quadrature signal of the vertical coil. The measured value does not depend on the absolute value of the signal, only the relative values are measured.

FIGURE 3 shows the proper planning of survey in relation to the direction of strike and primary field, direction of survey lines etc.

FIGURE 4 explains the time delay (phase lag) ϕ of travelling electromagnetic wave above and in the conductive ground. The amplitude of the wave in the ground is also attenuated.

FIGURE 5 shows on the left the physical direction of the primary (H_x) and secondary (H_z) field vectors in relation to conductive ground and target. The location of secondary current distribution in the target is shown schematically. We see that most current concentration is in the upper edge of the good conductor. The return secondary current is more spread due to the diminishing primary field in the conductive rock. On the right, the time vectors show the retarded phase of H_x in the target and the phase advance of the secondary field H_z compared to H_x . We must remember that the H_z will have additional phase lag when it penetrates back towards the surface.

This figure shows a positive real component of the H_z while the quadrature remains negative.

FIGURE 6 This graph shows the primary field attenuation in nepers, relative amplitude and phase lag in radians of the primary field as function of depth and conductivity of the ground. This graph is for 20 kHz.

FIGURE 7 shows the maximum obtainable amplitude H_z from a sphere or horizontal cylinder as a function of the radius-to-depth ratio. The schematic on the left shows the depth determination for the spherical or cylindrical target.

FIGURE 7 Continued...

The equation for the phase shift and attenuation of the primary field in conductive material, where $\sigma/\epsilon\omega \gg 1$ is as follows:

$$\alpha = \beta = \frac{\sqrt{\omega\mu\sigma}}{2}$$

where α = attenuation, nepers/m
 β = phase lag, radian/m
 ω = $2\pi f$
 μ = magn. permeability = $4\pi \times 10^{-7}$
 σ = mhos/m

FIGURE 8 This graph gives the amplitude and phase shift of the field (in conductive media) as function of skin depth, $\delta = 1/\alpha$.

This equation gives the skin-depth in meters for certain conductivity and frequency. Normalize this to one, and the graph in Figure 8 gives the amplitude and phase shift of the wave at any relative depth.

FIGURE 9 The vertical field from a long wire source is plotted here. A vertical semi-infinite sheet target would be simulated this way. In practice it hardly works accurately due to the spread of the secondary current in the target because of the finite conductivity and the attenuation and phase shift of the primary field as function of depth.

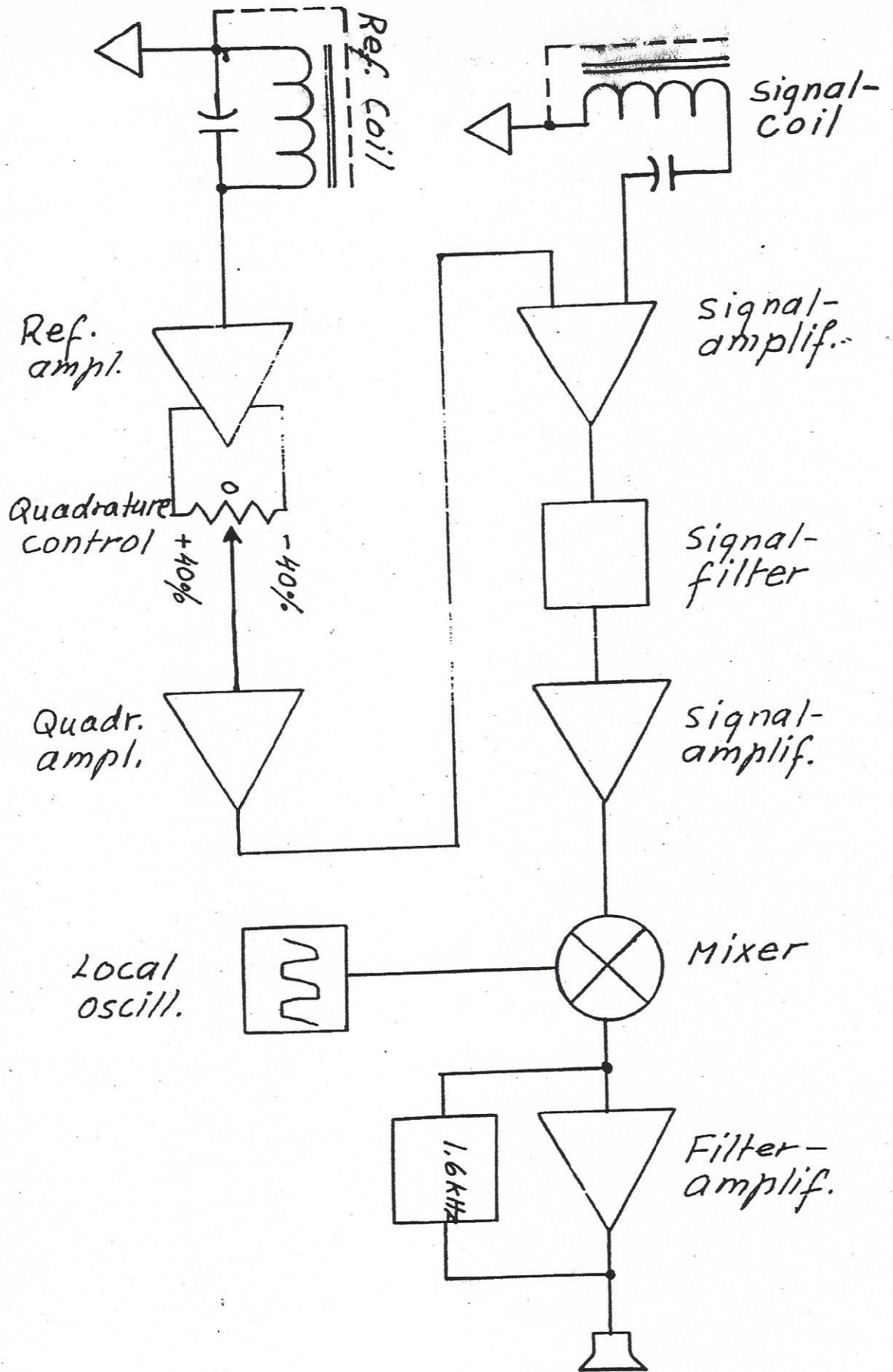
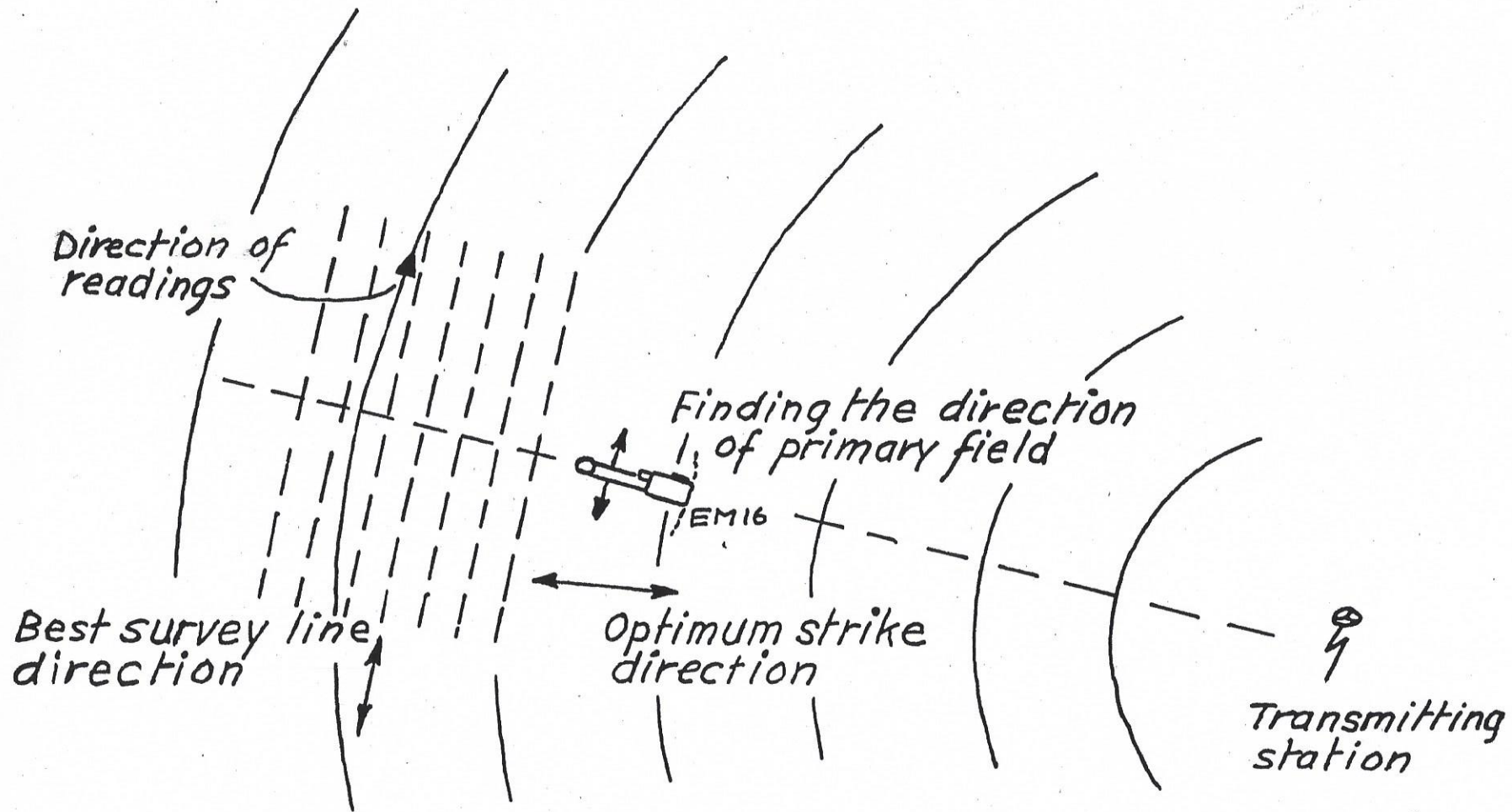


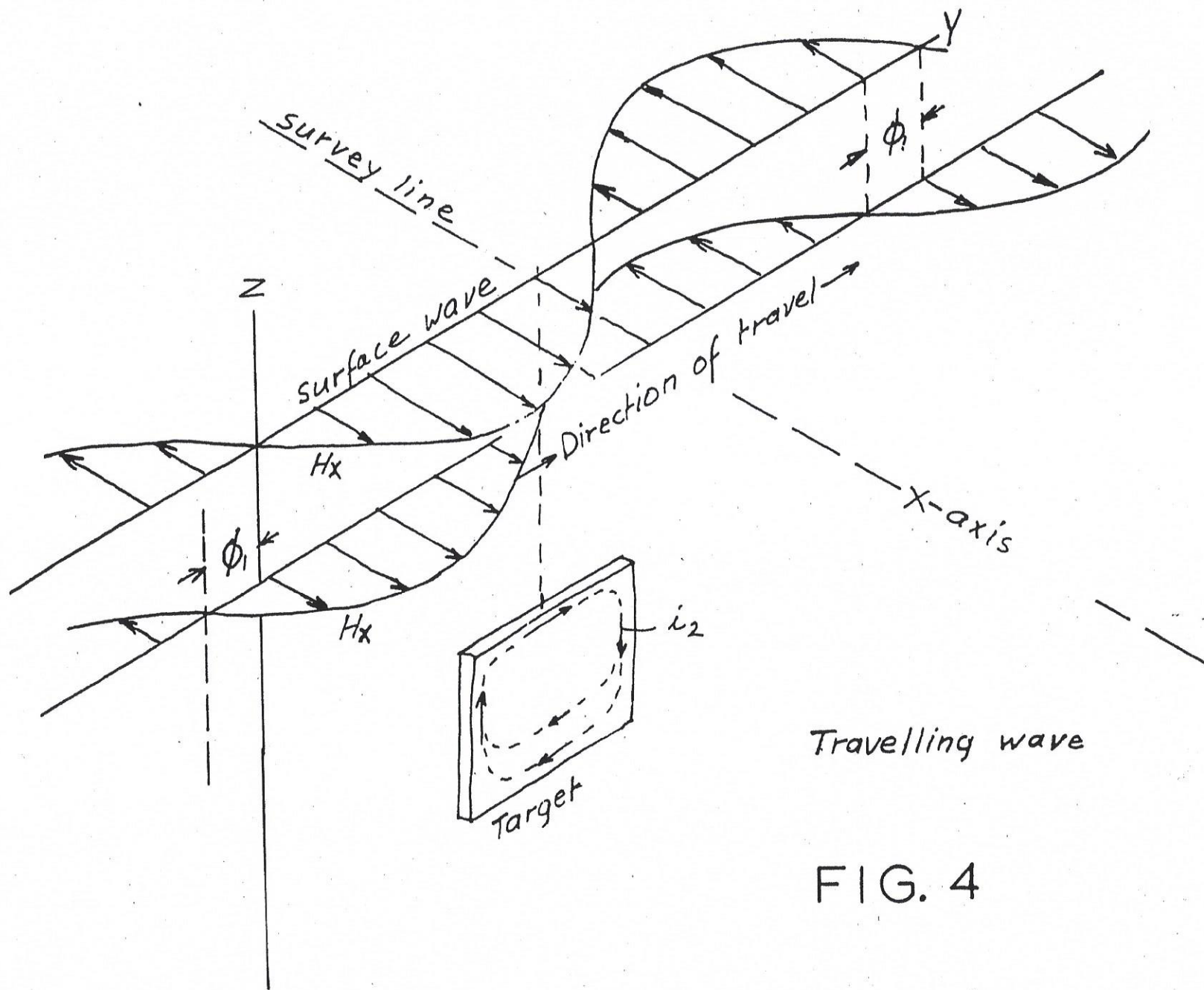
FIG. 2

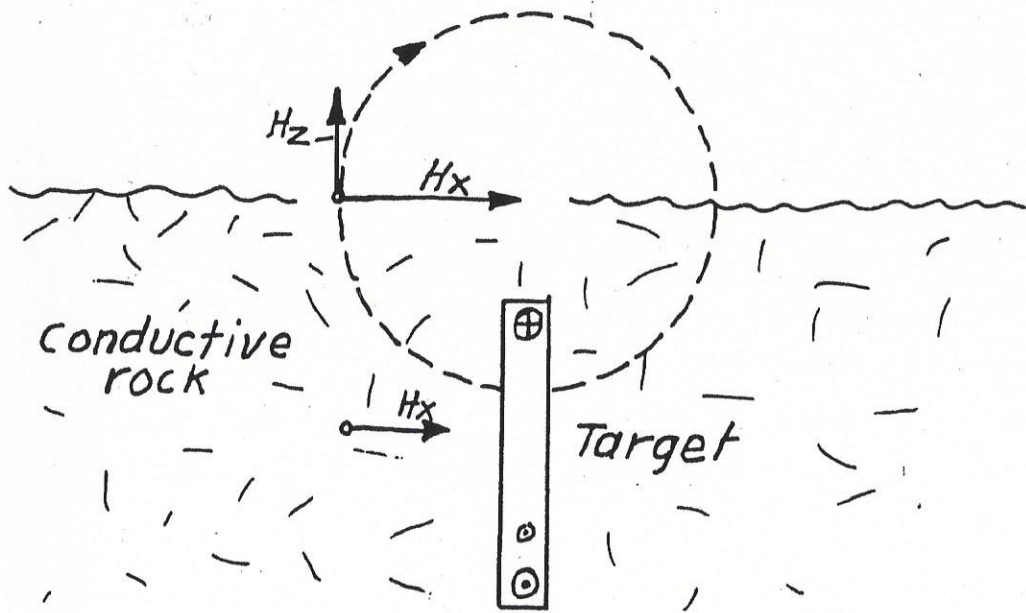
EM16 VLF-EM
Block Diagram
GEONICS LTD.



Planning of survey

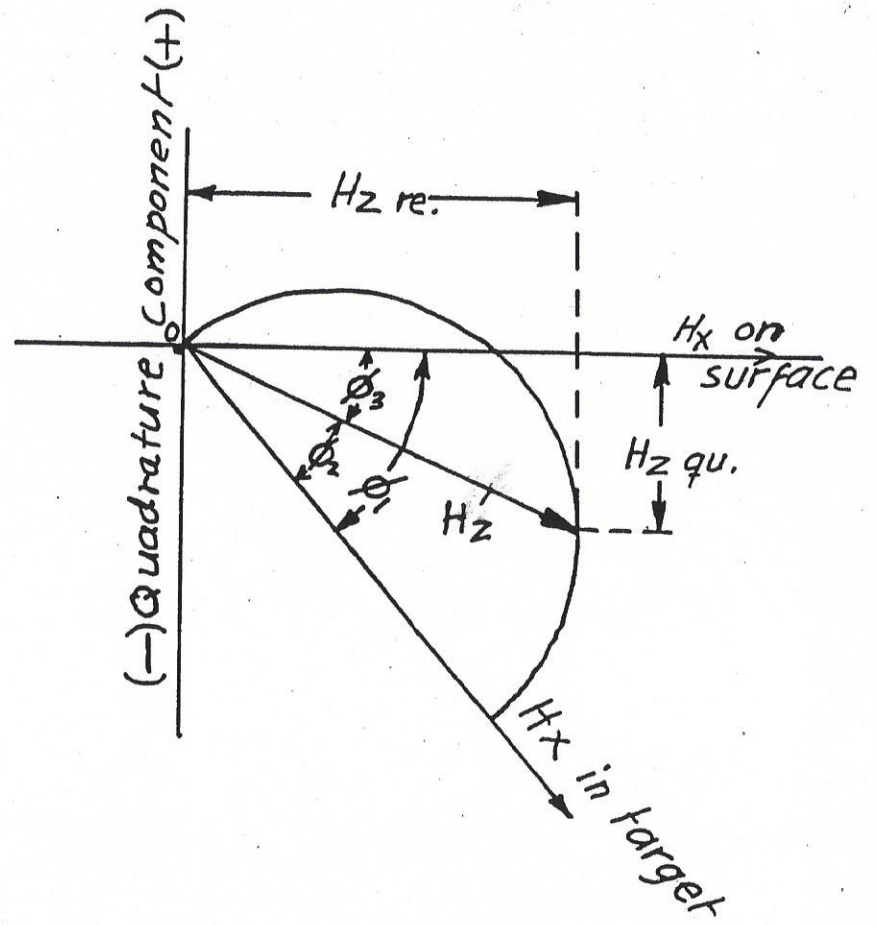
FIG. 3





Directional vectors

H_x = primary field
 H_z = sec. field, vert. component



Time vectors

Conductive target in conductive medium

FIG. 5

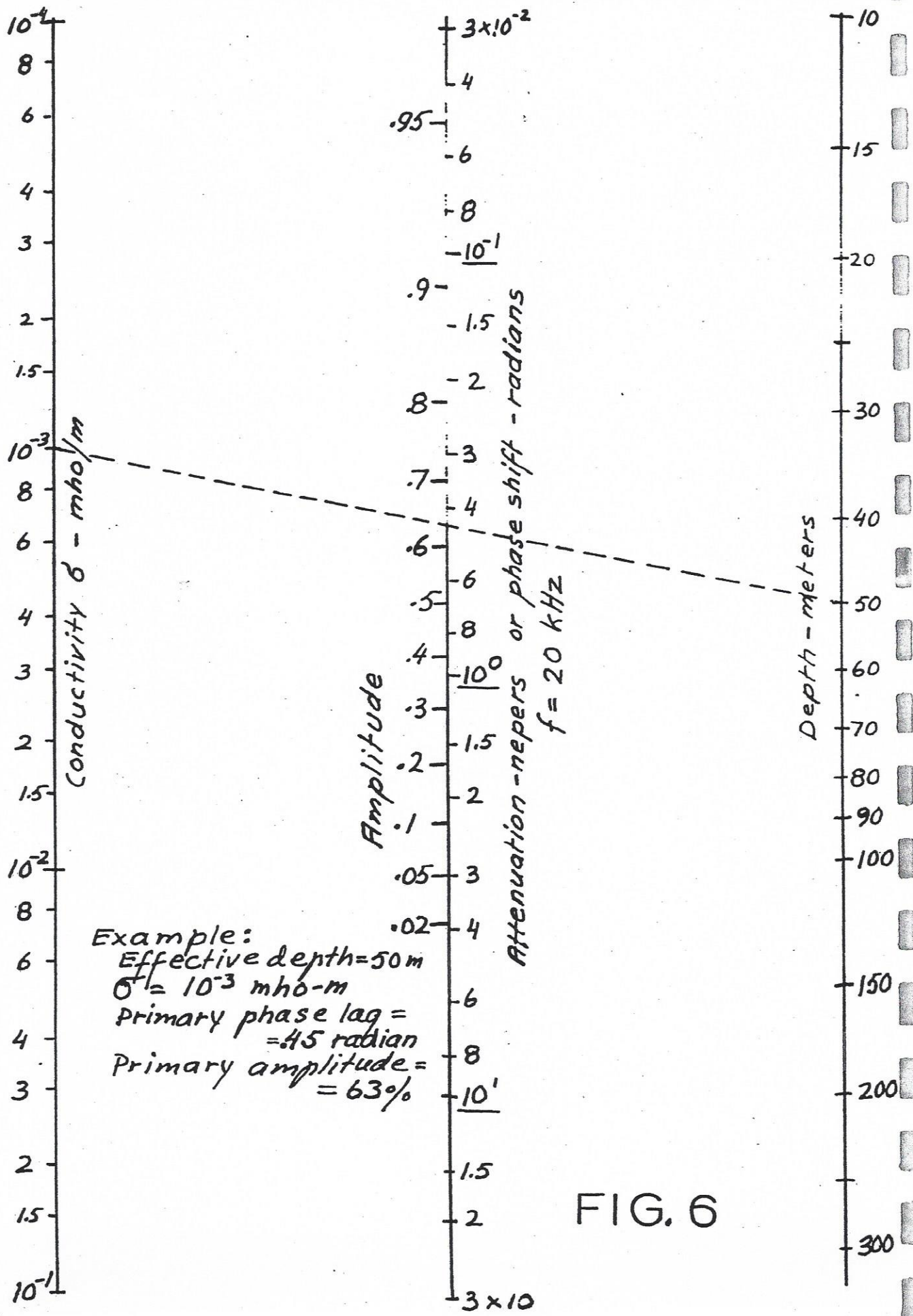
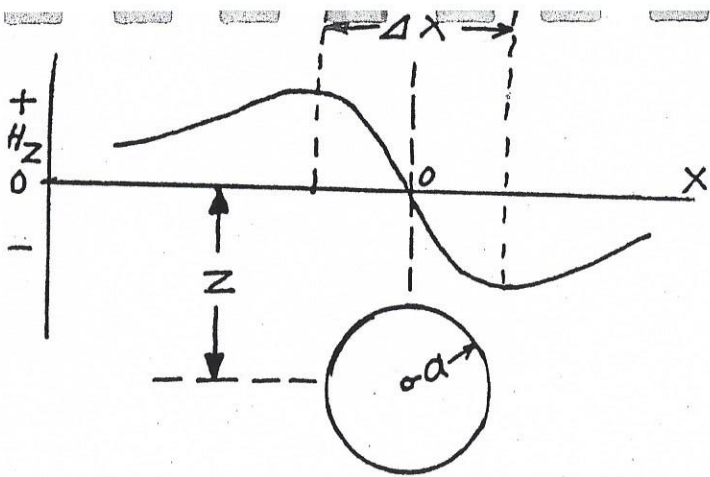


FIG. 6



Long cylinder or sphere in horizontal field $H_x=1$

Depth $Z = 1.16 \Delta X$ for cylinder,
 $Z = \Delta X$ for sphere
 $\delta = \infty$

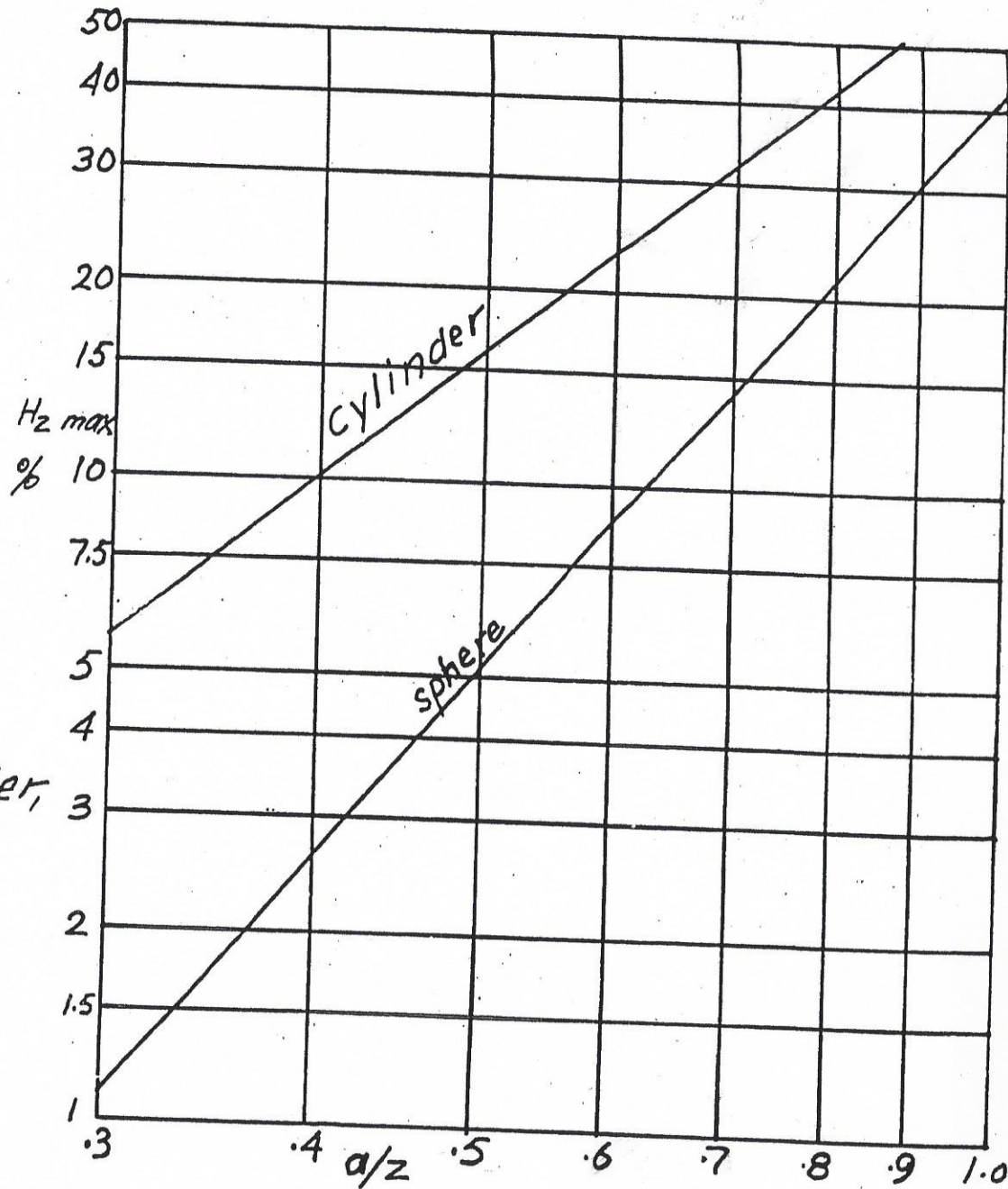
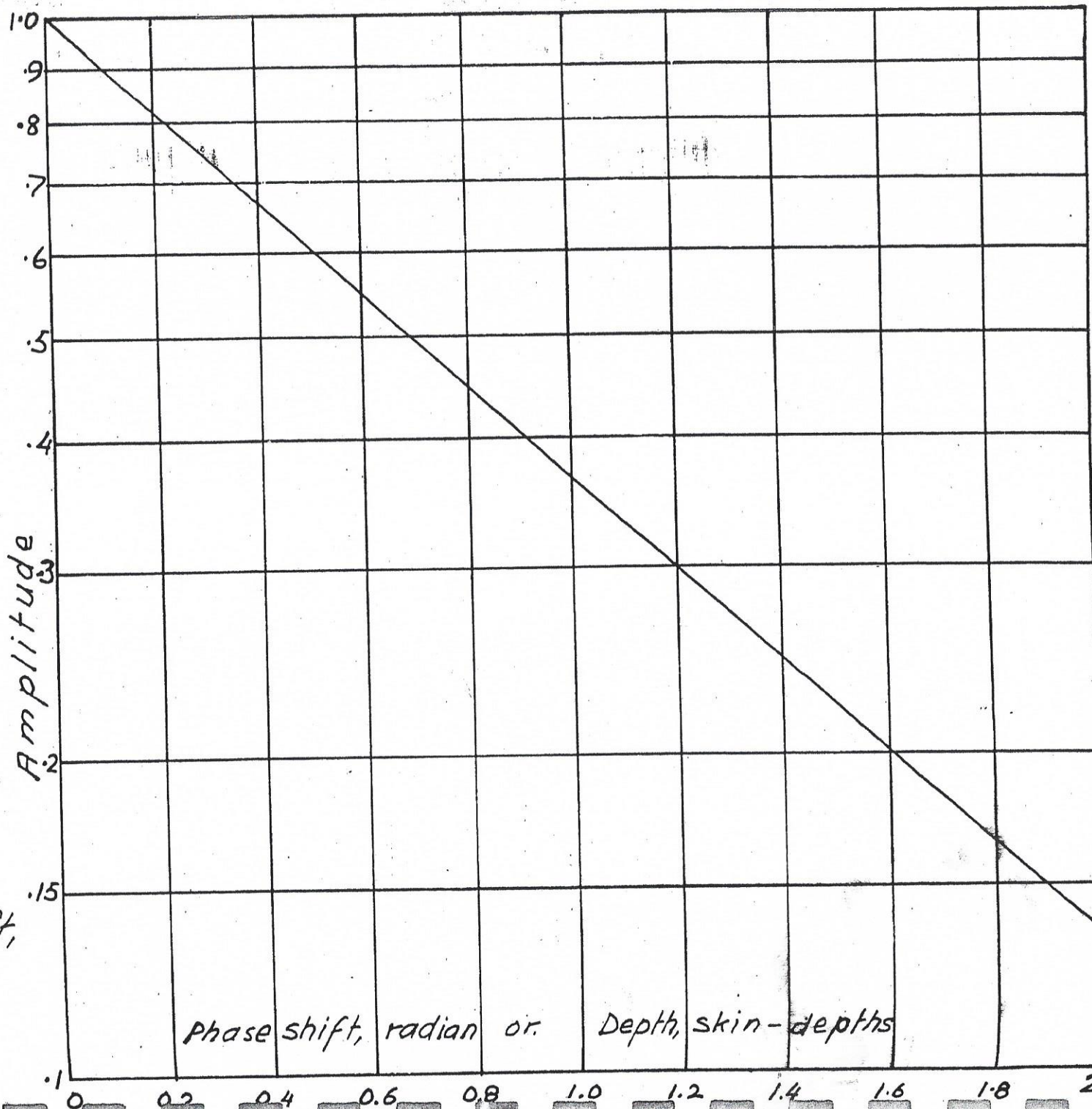


FIG. 7

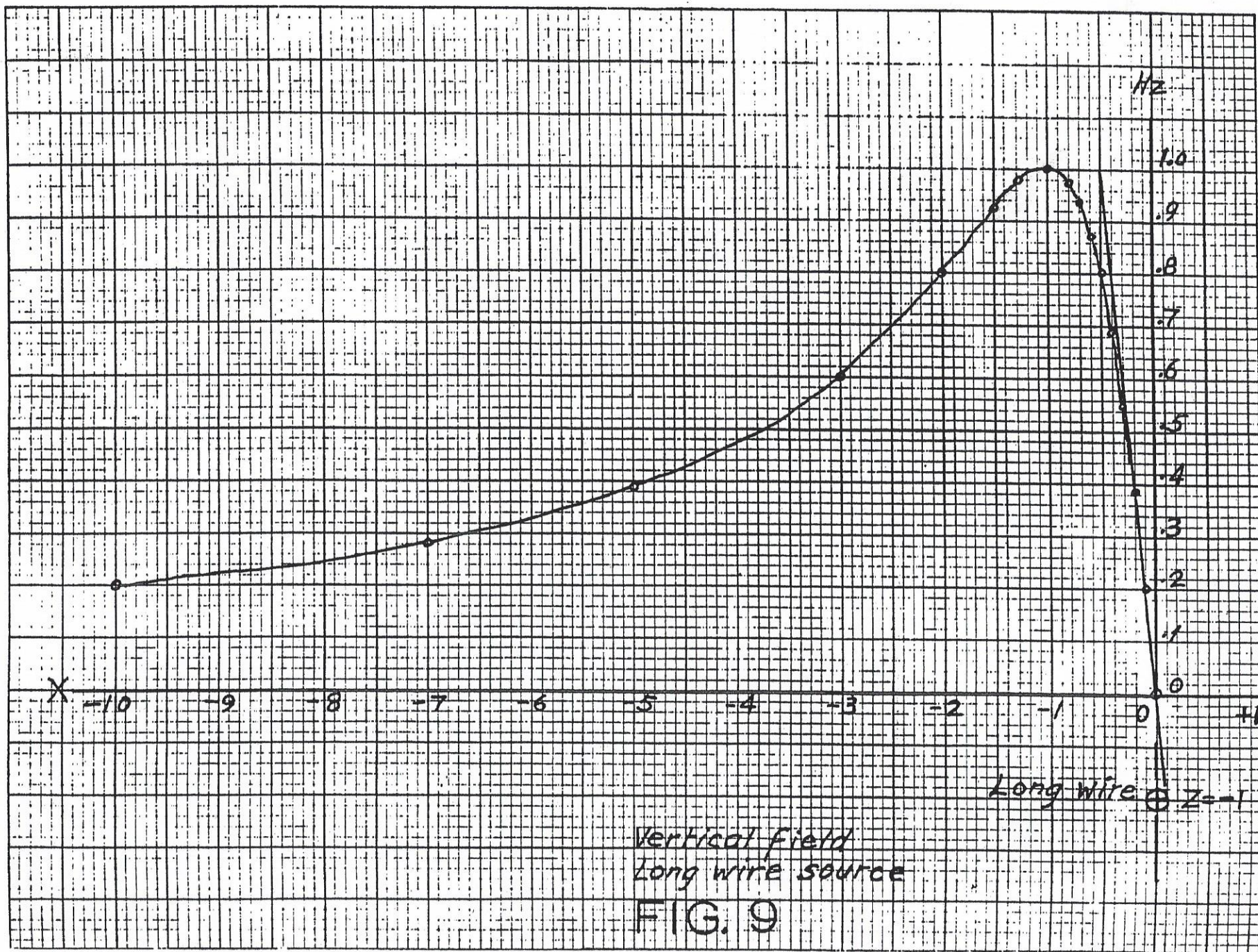
Maximum available anomaly from a sphere and cylinder



Primary field in
conductive rock.

Depth, phase shift,
amplitude

FIG. 8



SELECTION OF THE STATION

The magnetic field lines from the station are at right angles to the direction of the station. Always select a station which gives the field approximately at right angles to the main strike of the ore bodies or geological structure of the area you are presently working on. In other words, the strike of geology should point to the transmitter. (See Figure 3). Of course, $\pm 45^\circ$ variations are tolerable in practice.

Tuning of the EM16 to the proper transmitting station is done by means of plug-in units inside the receiver. The instrument takes two selector-units simultaneously. A switch is provided for quick switching between these two stations.

To change a plug-in unit, open the cover on top of the instrument, and insert the proper plug. (Figure 10) Close the cover and set the selector switch to the desired plug-in.

On the following pages is a variety of information on the most commonly used (i.e. reliable) VLF Transmitters including transmission frequency, geographical location and their scheduled maintenance periods.

VLF Transmitter Information

NORMAL MAINTENANCE PERIODS:

GBR 1000 to 1400 UT each Tue.

NAA 1200 to 2000 UT, testing 2000 to 2200 UT each Mon. (if holiday falls on Mon., maintenance will be performed preceding Fri.), may be off 1800 to 2000 UT Thu.

NAU 1200 to 2000 UT each Wed.

NDT 2300 to 0900 UT first Thu.-Fri. of month, 2300 to 0700 UT all other Thu.-Fri.

NLK 1600 to 2400 UT each Thu. (1500 to 2300 UT during daylight saving time)

NPM 1800 to 0400 UT last Wed.-Thu. of month, 1800 to 0200 UT all other Wed.-Thu.

NSS No longer in operation.

NWC 0000 to 0800 UT each Mon. (if holiday falls on Mon., maintenance will be performed Tue.), may be off 0000 to 0400 UT Tue. (Wed. if holiday falls on Mon.)

For further information the U.S. Naval Observatory, Time Service Division, Washington, D.C. may be contacted at (202) 653-1525.

VLF STATION INFORMATION

<u>Station</u>	<u>Frequency</u>	<u>Location</u>	<u>Co-ordinates</u>	<u>Kw</u>
FUO	15.1	Bordeaux, France	00W48-44N65	500
GBR	16.0	Rugby, England	01W11-52N22	750
JXZ	16.4	Helgeland, Norway	13E01-66N25	350
NAA	24.0	Cutler, Maine	67W17-44N39	1000
NAU	28.5	Aguada, Puerto Rico	67W11-18N23	100
JJI	22.2	Ebino City, Japan	130°E46'-32°No5'	500
NLK	24.8	Seattle, Washington	121W55-48N12	234
NPM	21.4	Lualualei, Hawaii	158W09-21N25	600
NWC	22.3	N.W. Cape, Australia	114E09-21S47	1000
UMS	17.1	Moscow, Russia	37E01-55N49	1000

Notes:

1. Use of NAU (Puerto Rico) 28.5 kHz requires factory modification of VLF instrument.
2. In the event that an EM16 unit is being returned to Geonics for:
 - modification of frequency range to include NAU, 28.5 kHz, or
 - addition of the 16R resistivity attachment,
 please ensure that all station plug-ins are also returned, for proper calibration.

GEOGRAPHIC USE OF VLF STATIONS

The following list of plug-ins are the standard plug-in crystals provided with the EM16 for the various areas listed throughout the world.

Europe	:	FUO GBR JXZ NAA UMS
North America	:	"
North	:	NAA NLK GBR
West & Alaska	:	NAA NLK NPM
Midwest	:	NAA NLK
East	:	NAA NLK GBR
South	:	NAA NLK NAU
Mexico & Central America	:	NAA NAU NLK NPM
South America	:	
North	:	GBR NAA NAU
West	:	GBR NAA NAU NPM
Asia	:	
East	:	JJI NWC UMS
Central	:	FUO UMS
Japan	:	JJI NPM NWC
Australia	:	
East	:	NWC NPM JJI
Africa	:	
North	:	NAA NWC FUO GBR UMS
West	:	NAA NWC FUO GBR UMS
Central	:	NAA NWC FUO GBR UMS
East	:	NAA NWC FUO GBR UMS NWC
South	:	NAA NWC (FUO GBR UMS 10% noise)



Fig.10

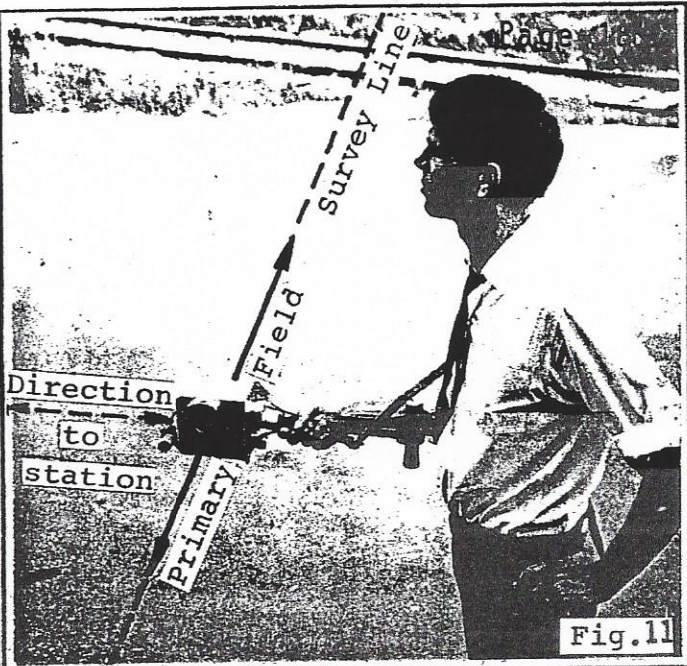


Fig.11

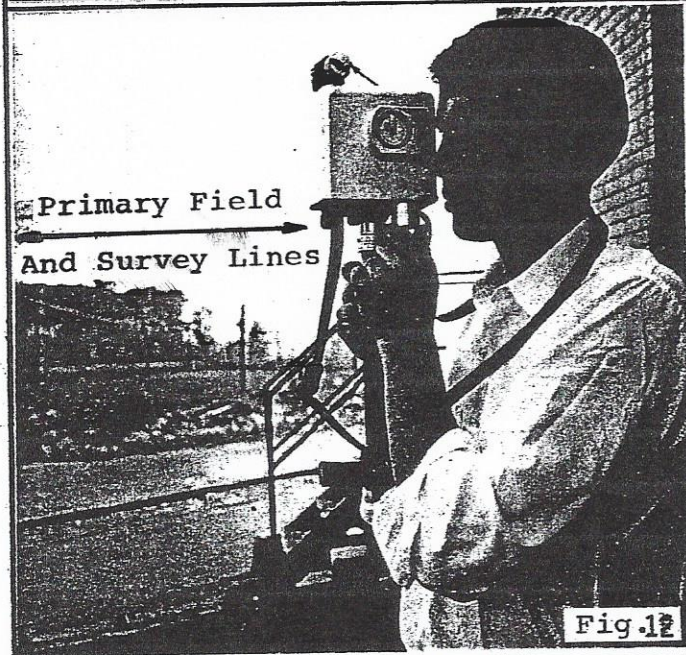


Fig.12

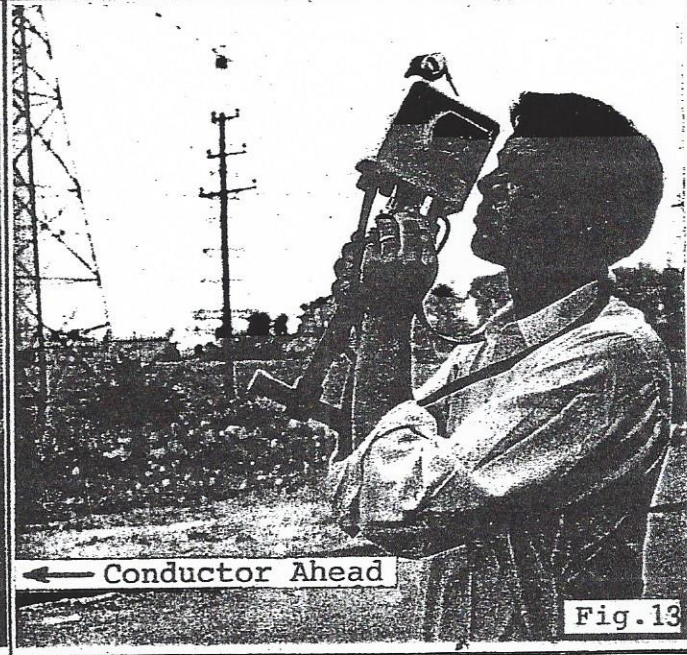


Fig.13



Fig.14

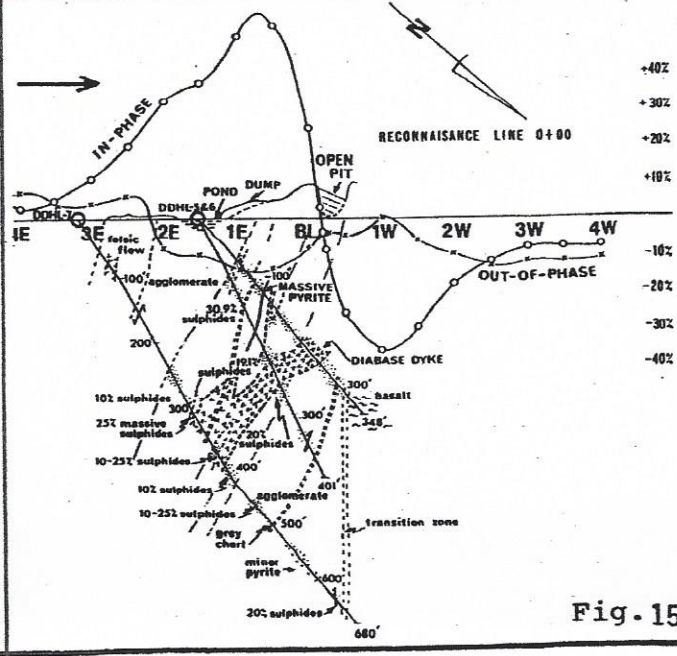


Fig.15

FIELD PROCEDURE

Orientation & Taking a Reading

The direction of the survey lines should be selected approximately along the lines of the primary magnetic field, at right angles to the direction to the station being used. Before starting the survey, the instrument can be used to orient oneself in that respect. By turning the instrument sideways, the signal is minimum when the instrument is pointing towards the station, thus indicating that the magnetic field is at right angles to the receiving coil inside the handle. (Fig.11).

To take a reading, first orient the reference coil (in the lower end of the handle) along the magnetic lines. (Fig.12) Swing the instrument back and forth for minimum sound intensity in the speaker. Use the volume control to set the sound level for comfortable listening. Then use your left hand to adjust the quadrature component dial on the front left corner of the instrument to further minimize the sound. After finding the minimum signal strength on both adjustments, read the inclinometer by looking into the small lens. Also, mark down the quadrature reading.

While travelling to the next location you can, if you wish, keep the instrument in operating position. If fast changes in the readings occur, you might take extra stations to pinpoint accurately the details of anomaly.

The dials inside the inclinometer are calibrated in positive and negative percentages. If the instrument is facing 180° from the original direction of travel, the polarities of the readings will be reversed. Therefore, in the same area take the readings always facing in the same direction even when travelling in opposite way along the lines.

The lower end of the handle, will as a rule, point towards the conductor. (Figs.13 & 14) The instrument is so calibrated that when approaching the conductor, the angles are positive in the in-phase component. Turn always in the same direction for readings and mark all this on your notes, maps, etc.

THE INCLINOMETER DIALS

The right-hand scale is the in-phase percentage (ie. H_s/H_p as a percentage). This percentage is in fact the tangent of the dip angle. To compute the dip angle simply take the arc-tangent of the percentage reading divided by 100. See the conversion graph on the following page.

The left-hand scale is the secant of the slope of the ground surface. You can use it to "calculate" your distance to the next station along the slope of the terrain.

- (1) Open both eyes.
- (2) Aim the hairline along the slope to the next station to about your eye level height above ground.
- (3) Read on the left scale directly the distance necessary to measure along the slope to advance 100 (ft) horizontally.

We feel that this will make your reconnaissance work easier. The outside scale on the inclinometer is calibrated in degrees just in case you have use for it.

PLOTTING THE RESULTS

For easy interpretation of the results, it is good practice to plot the actual curves directly on the survey line map using suitable scales for the percentage readings. (Fig.15) The horizontal scale should be the same as your other maps on the area for convenience.

A more convenient form of this data is easily achieved by transforming the zero-crossings into peaks by means of a simple numerical filtering technique. This technique is described by D.C. Fraser in his paper "Contouring of VLF-EM Data", Geophysics, Vol. 34, No. 6. (December 1969)pp958-967. A reprint of this paper is included in this manual for the convenience of the user.

This simple data manipulation procedure which can be implemented in the field produces VLF-EM data which can be contoured and as such provides a significant advantage in the evaluation of this data.

INTERPRETATION

The VLF primary field's magnetic component is horizontal. Local conductivity inhomogeneities will add vertical components. The total field is then tilted locally on both sides of a local conductor. This local vertical field is not always in the same phase as the primary field on the ground surface. The EM16 measures the in-phase and quadrature components of the vertical field.

When the primary field penetrates the conductive ground and rock, the wave length of the wave becomes very short, maybe only few tens of meters, depending on conductivity and frequency. At the same time the wave travels practically directly downwards. The amplitude of the field also decreases very fast, completely disappearing within one wavelength. The magnetic field remains, however, horizontal.

Figure 16 shows graphically the length and phase angle of the primary field penetrating into a conductive material.

The phase shift in radians per meter and the attenuation in nepers per meter ($1/e$) is:

$$\beta = \alpha = \left[\frac{\omega \mu \sigma}{2} \right]^{1/2} \quad \text{where} \quad \begin{aligned} \omega &= 2 \pi f \\ \mu &= \mu_0 \mu_r = 4\pi \times 10^{-7} \\ \sigma &= \text{conductivity} \\ &\text{mho/m} \end{aligned}$$

Figure 16 also reminds us of the fact that all secondary fields have a small (or large in poor conductors) positive phase shift in the target itself due to its resistive component, and that the secondary fields have another negative phase shift while penetrating back to surface from the upper edge of the target.

The targets are located somewhere in the depth scale (phase shift scale in this case). Suppose we have a semi-infinite vertical sheet target starting from the surface. Figure 17 shows that the total integrated primary field inphase and quadrature flux has a value of + 0.5 and - 0.5 respectively.

These two charts can be used to analyze the inphase and quadrature readings taken on both sides of the target. If one knows the actual conductivity of the overburden and the rock, the task is easier. Because of the many variables involved the precise analysis is usually impossible.

The most frequently encountered and easily solved problem is, however, the separation of surface conductors from the more interesting ones at depth. This is easily done by observing the negative quadrature signals compared to the usually positive or zero ones from the surface targets. See the sample profiles in Figures 18 and 19. This way we can often tell if we have a more interesting sulfide target under a swamp for example.