Beep Mat Location and Excavation

of

Airborne Megatem II Conductors

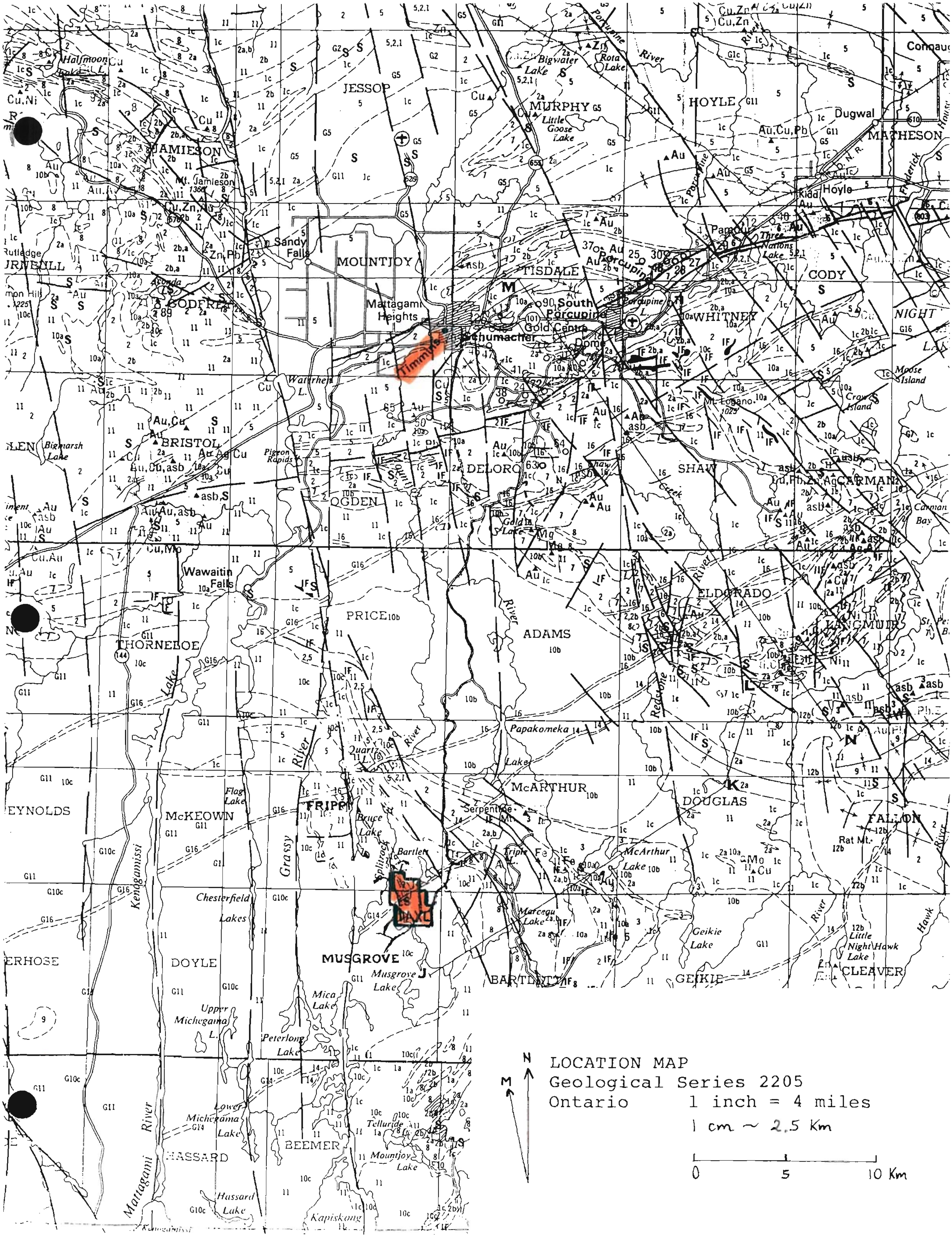
on Daxl Claims in Fripp - Musgrove Townships

in Sep - Nov 2007

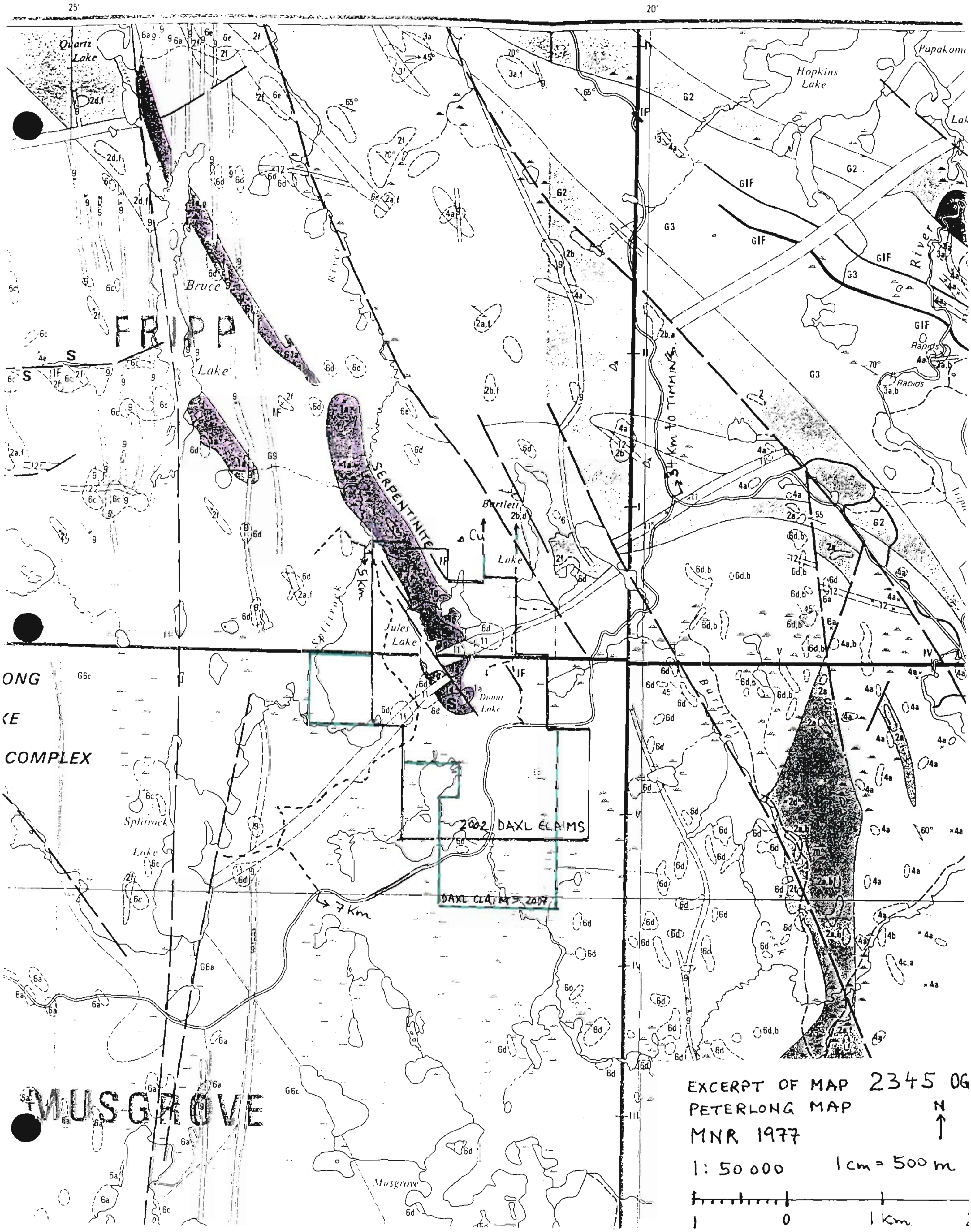
2 · 38032

Report by Hermann Daxl, M.Sc.

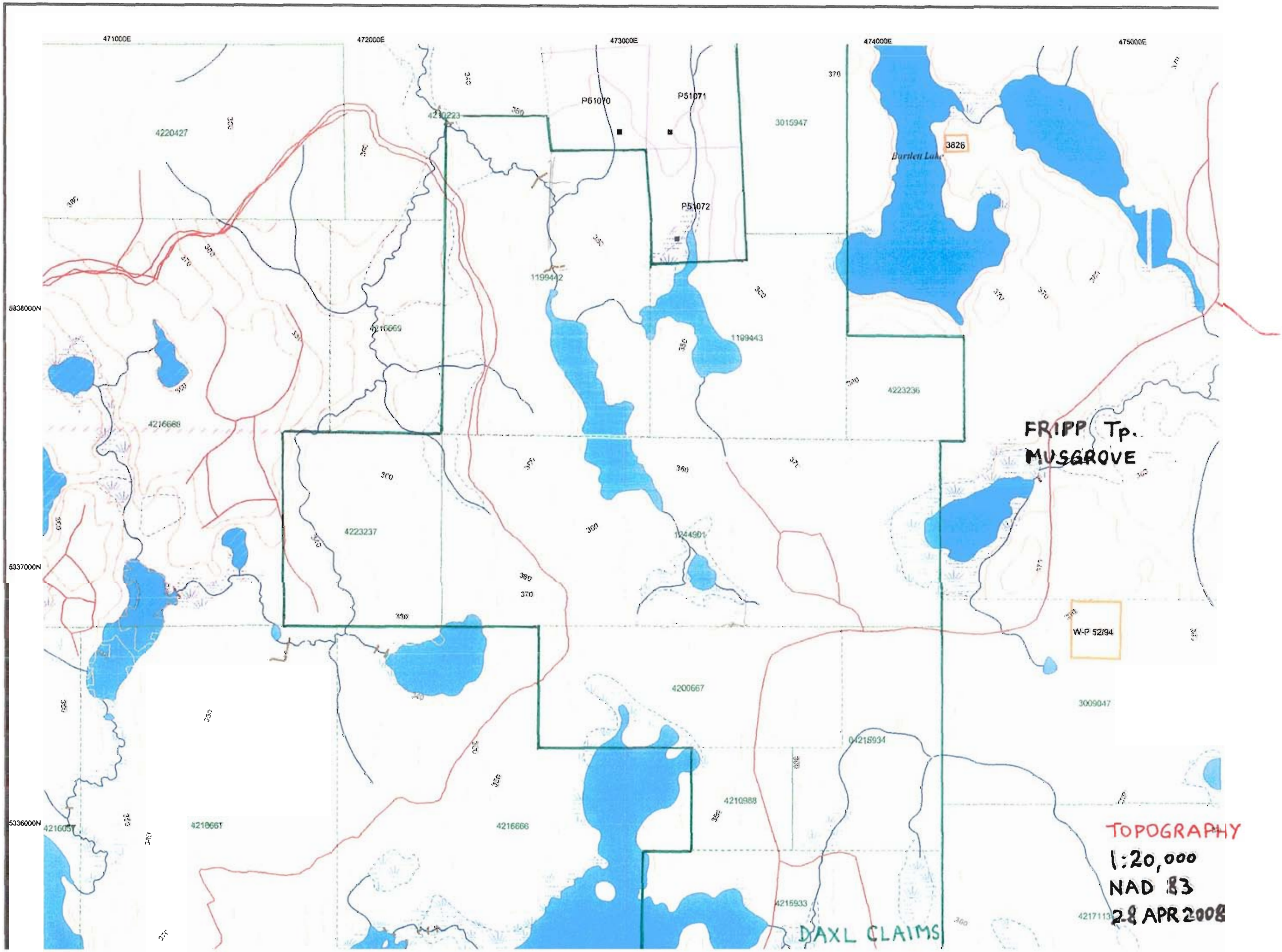
12 May 2008



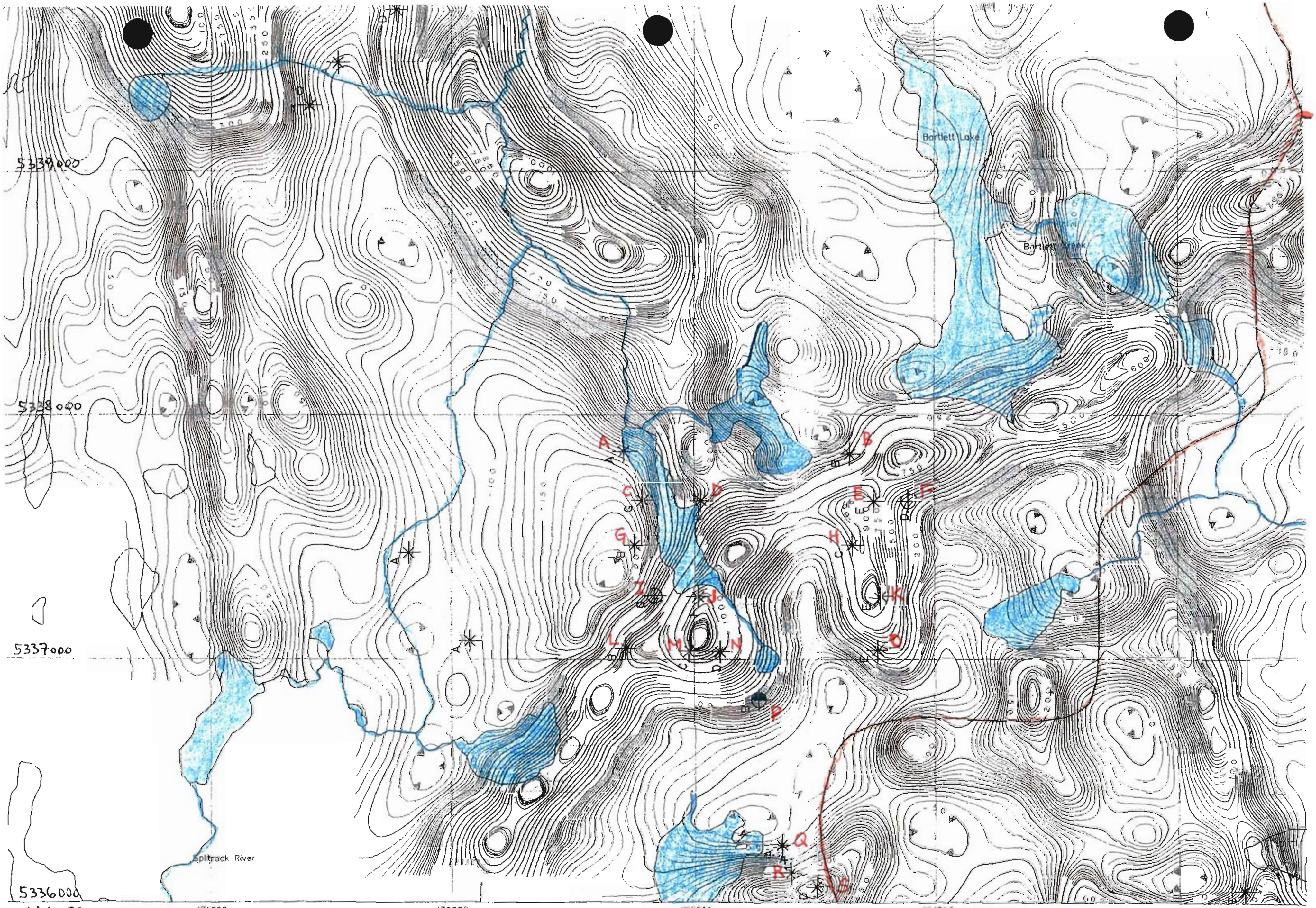
JESSOP
MURPHY
HOYLE
MATHESON
JAMIESON
Mt. Jamieson
Sandy Falls
MOUNTJOY
TISDALE
CODY
GODFREY
Mattagami Heights
Timmins
Schumacher
South Porcupine
Gold Centre
Porcupine
WHITNEY
BRISTOL
Bigmarsh Lake
Pigeon Rapids
DELORO
OGDEN
SHAW
CARMAN
Waterhen L.
Wawaitin Falls
PRICE
ADAMS
ELDORADO
LANGMUIR
THORNELOE
Papakomeka
McARTHUR
DOUGLAS
FALLON
McKEOWN
TRIPP
Bruce Lake
Serpentine Mt.
McArthur Lake
Rat Mt.
Chesterfield Lakes
MUSGROVE
Musgrove Lake
Marceau Lake
Geikie Lake
Little Night Hawk Lake
CLEAVER
BARTLETT
GEIKIE
DOYLE
Upper Michegama L.
Peterlong Lake
Mica Lake
Lower Michegama Lake
BEEMER
HASSARD
Telluride
Mountjoy Lake
Hassard Lake
Kapiskong
Kenogamissi Lake
Mattagami River
Grassy River
EYNOLDS
LOCATION MAP
Geological Series 2205
Ontario
1 inch = 4 miles
1 cm ~ 2.5 Km
0
5
10 Km
N
M



25'
20'
Quartz Lake
Hopkins Lake
Pupakoma
Bruce Lake
FRIPP
SERPENTINITE
Bartlett Lake
Jules Lake
Donut Lake
Splitrock
Splitrock Lake
River
Rapids
34 km to TIMMINS
5 km
7 km
2002 DAXL CLAIMS
DAXL CLAIMS 2007
ONG
KE
COMPLEX
MUSGROVE
Musgrove
EXCERPT OF MAP 2345 OG
PETERLONG MAP
MNR 1977
1: 50 000
1 cm = 500 m
N
1 0 1 Km



471000E
472000E
473000E
474000E
475000E
5338000N
5337000N
5336000N
4220427
P51070
P51071
P51072
3015947
3826
Bartlett Lake
1199442
1199443
4216669
4216668
4223236
4223237
1244901
4200667
4216934
4210988
4216661
4216666
4216933
3009047
W-P 52/94
FRIPP Tp.
MUSGROVE
TOPOGRAPHY
1:20,000
NAD 83
28 APR 2008
DAXL CLAIMS



OF 5521/DP 5521 : -81°22'30" **MAP 81 991/CARTE 81 991** 1:20,000 -81°20'

R. Dumont
J. Potvin

MEGATEM II SURVEY BARTLET DOME 2007

GSC OPEN FILE 5519/ DOSSIER PUBLIC 5519 DE LA CGC

OGS MAP 81 989 / CARTE 81 989 DE LA CGO

FLIGHT LINES WEST-EAST

Residual MAG and EM anomalies

Introduction

The present field work was done from 23 Sep to 17 Nov 2007 on mining claims 1199442 and 1199443 in Fripp, and 1244901 and 4210988 in Musgrove townships, by Hermann Daxl, author and holder of the claims, in an effort to locate and sample the hitherto unknown weak airborne conductors shown of the newly published Megatem II survey, Bartlett Dome 2007, GSC open file 5519, OGS map 81989 (excerpt attached), with the help of the Beep Mat BM4+ rented from GDD Instrumentation Inc., Quebec City.

In addition, the airborne conductor at S on claim 4210988 previously located with the Beep Mat and sampled, has now been stripped mechanically over 30m. New samples include a till sample for diamonds.

The area is of interest for copper because the historic "Hollinger Copper" resource lies only 1 - 2.5 km north of here, although it does not show on any airborne survey. Except for claim 4210988, the area had been covered by the previous airborne EM survey maps 81389 and 81393 of OGS, NTS reference 42A/3, but most of the present conductors did not show possibly because of the N-S versus the present E-W flight lines.

Access is easy via Pine Street South to 34km south of Timmins, then turning west towards Peterlong Lake on the 2-lane gravel road. The hand-dug pits near Jules Lake are <450m from open gravel trails as shown on the attached maps. The newly mechanically stripped area at NAD83 0473500 E - 5336035 N at 400m past the 4km sign and 70m west of the road, displays a cross-section of a sulfide dike. Location maps are enclosed.

Geology

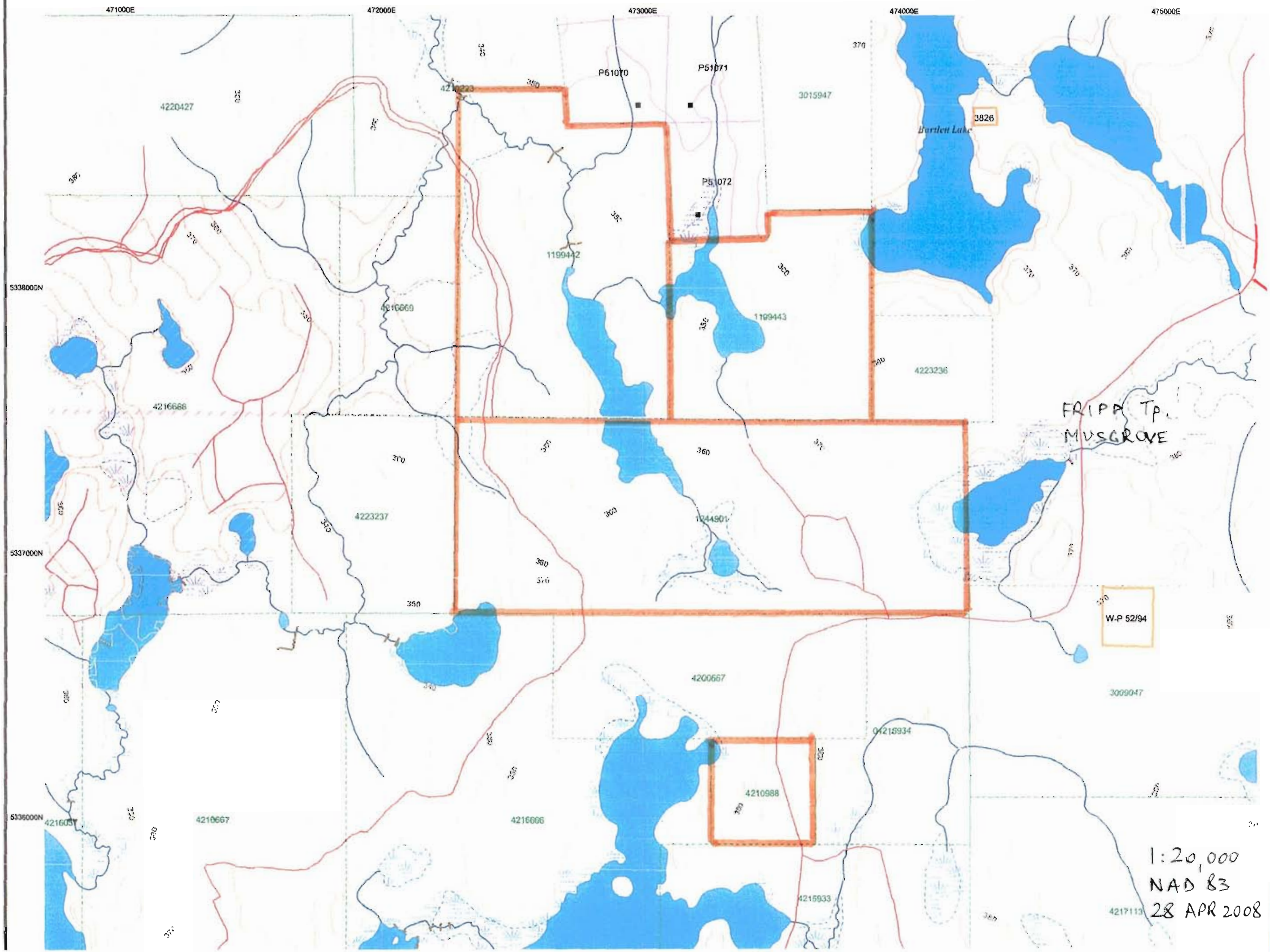
The attached excerpt of OGS Map 2345 shows serpentinite between Jules Lake and the lake to the northeast, trending 150 az. and stopping in Donut Lake, all within the northeastern margin of the Peterlong Lake Complex of diorite with 1% blue quartz. Airborne anomalies flank that serpentinite and may be related to it, influenced by parallel faults. These were previously called iron formations and were now found to be basalt to pyroxenite dikes with semi-massive pyrrhotite, pyrite, and magnetite.

The nearby "Hollinger Copper" resource of possibly 50,000 tonnes of about 4% copper with very minor silver, as can be estimated from assessment file T-3806, is in a similar dike system, although part of a serpentinite offshoot which may be necessary to carry copper. Where not contaminated by xenoliths it grades 20% copper.

Previous Work

Historically ground EM, MAG, VLF, geology maps as well as drill holes were done by Sandrelli (T-492), Hollinger (T-702), Shadrack (T-1618), and Falconbridge (T-3482), but there is no evidence of trenching except for the workings at anomalies I and P which the present work excluded. A helicopter EM for Falconbridge to 55 az. shows only anomaly P, but many swamp and lake anomalies. Anomaly O may have been intersected by drill hole 2 of Shadrack in 1974.

Work by myself in this area included prospecting with the Beep Mat in 2002 (T-4800, 2.24758), and IP in 2003-2004 (T-5209, 2.30599) where the contact conductor M can be recognized on two lines which it approaches at L8755N-8829E and L8790N-8842E. The conductor S of my work filed under T-5579, 2.36060 on claim 4210988 has now been mechanically stripped.



471000E
472000E
473000E
474000E
475000E
5338000N
5337000N
5336000N
P51070
P51071
P51072
3015947
3826
Bartlett Lake
4220427
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4216668
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W-P 52/94
4200667
3009047
4215934
4210988
4216667
4216666
4215933
4217113
FRIPP Tp.
MUSGROVE
1:20,000
NAD 83
28 APR 2008

Present Work

Megatem II anomalies near Jules Lake

Fripp - Musgrove Townships

In an effort to locate the conductors and dig them up by hand I scanned 14 of the 16 areas of mostly very weak airborne anomalies with the Beep Mat BM4+ within 50-80m radius at 5-10m intervals, around the following UTM taken from map GSC Open File 5519 / OGS 81989:

UTM 17 U, NAD83, 047.... E - 533.... N, last 4 digits is meters:

A	2720 E - 7850 N	2 pits at 4m, samples 722, 723, 726, 727.
B	3640 E - 7840 N	Beeps 4x20m, az.5, 2 pits, 711,712,713,714.
C	2790 E - 7650 N	2 pits, 720, 721, 729.
D	3030 E - "	May be in bay, 715 b
E	3750 E - "	May be in gully.
F	3900 E - "	May be in swamp; 709 b, 710 b (b=boulder)
G	2760 E - 7470 N	No beeps but rusty, 724, 725, 728.
H	3660 E - "	Beeps 30 at 0%, 0.5 x 1.5m, 3677E-7513N.
I	2840 E - 7250 N	Not this time, historic blasting of outcrop.
J	3020 E - "	Ultramafic, beep 5m az.110, 3010E-7260N.
K	3770 E - "	May be in small swamp crossed by road.
L	2725 E - 7040 N	May be in deep swamp.
M	2975 E - "	Contact beeps 40m, dug 3m, 717, 718, 719.
N	3110 E - "	May be in small swamp.
O	3760 E - "	2 spots. NW dug, 730,731,732,733,734.
P	3265 E - 6830 N	Not this time, historic blasting of outcrop.

As detailed above, I located 7 of the 14 hitherto unknown conductors without outcrop, and dug up and sampled conductive bedrock of 5. Including three mineralized boulders, and one rusty outcrop at G, 26 chip samples of 1-2kg, numbers 709 - 734, were analyzed for AuPtPd, Ag, base metals, and many other elements, by Activation Laboratories Ltd. at Ancaster, Ontario, by fire assay, neutron activation, 4-acid digestion, or lithium meta-tetra-borate fusion, to obtain total elements that may partly also be contained in magnetite, and would not be released by aqua-regia. Only sample 729 with 0.69% Cu, 7.2 g/t Ag, and only 2.3 % sulfur, could be of interest unless really a xenolith. The other anomalous values are of boulders but not high enough for boulders to be pursued.

Attached are an excerpt of OGS Map 81989 showing the anomalies and magnetic contours, the claims map with topography, a 1:10,000 location map of the new excavations, photographs of the hand-dug pits at B and O, sample descriptions 709 to 734 with UTM, and certificates of analyses.

The Mechanically Stripped Megatem II Anomaly

on Claim 4210988, NAD83 - 0473500 E - 5336035 N

Further to the hand-dug pit (T-5579, 2.36060) I outlined a <7X40m conductive and locally magnetic response with the Beep Mat, mostly 30-50m south of the airborne plot of conductor S on the east-west flight line. Mechanical stripping exposed subcrops including a <5m thick fine-grained pyroxenite dike, locally tending to gabbro, with 0<30% interstitial magnetite or magnetic pyrrhotite, or both, usually quite fresh.

The wallrock is medium-grained diorite with 1% blue quartz, locally banded <2m from the contact due to ductile interfingering with barren basalt, probably an earlier dike and shear. The pyroxenite dike is locally brecciated or nodular-sheared, with 0<20% pyrite as matrix or veinlets, which are variably rusted. Xenoliths of basalt as well as diorite occur in the pyroxenite, and being a dike is further confirmed by off-shoots into diorite as seen in the north-end of the excavation. The main contacts of the 5m thick pyroxenite dike are 320/50 and 345/80. A dextral fault seems to offset it towards 45 az. and thin it to 1m. Please refer to the attached 1:125 scale map, photographs showing some texture, sample descriptions, and certificates of analyses.

The stripping lies 70m west of the gravel road and was landscaped so geologists could further convince themselves that dikes of massive sulfides do exist within the 1-2km margin of this Peterlong Lake Complex of the Kenogamissi batholith. At the historic "Hollinger Copper" resource one of them is of massive chalcopyrite. The new exposure also shows how easily such a target could be missed in drilling, whereas it was exactly outlined for excavation with the Beep Mat. As there was no outcrop before, this is a geophysical discovery. The previous hand-dug pit is 15m outside the southeast rim, in the still covered continuation of the dike.

The 22 samples, 735 - 756, were taken as chips over <1m2 areas each, with an attempt to test the various textures and locations as plotted on the enclosed map. The again various analyses returned no values of economic significance other than very minor copper or silver, relative to sulfur, namely <0.17% Cu or <6.3 g/t Ag. This may be significant because copper and silver are also the two elements of interest in the "Hollinger Copper" resource. Sample descriptions, photos, and certificates of analyses are attached.

Lodgement Till from the Mechanical Stripping

NAD83 - 0473497 E - 5336030 N

Pyroxenite is variably rusty weathered, whereas diorite is locally crumbly below the surface polished by the glacier. The overburden is mostly fine clayey sand with 5% cobbles and boulders, and shows a brown B-horizon on top. The subcrop is coated with 2cm sticky sandy clay here which is rusty over the pyroxenite.

A 10kg sample of lodgement till from crevasses in the rusty pyroxenite was treated for diamonds including microscope picking of possible indicator minerals, but neither were found. Results of the <175micron overall fraction influenced by much magnetite, MUS-80, as well as the heavy fraction of >2.85 density including magnetics, of 210-430micron, MUS-HMC, were economically insignificant for the many elements analyzed. The full report with certificates is attached.

Conclusions and Recommendations

As no economically significant results were obtained from the analyses it may be risky to pursue the remaining weak anomalies with ground geophysics and drilling. Regarding the very minor values of <0.17% copper and <6.3 g/t silver in several sulfide-rich samples from the stripped area S and the southpit at B, the association of Cu-Ag like in the "Hollinger Copper" occurrence may be promising, however, any association with serpentinite would probably be more important. As such, the conductor C with sample 729 of 0.69% Cu, 7.2 g/t Ag, despite only 2.3 % S, needs to be pursued.

Beep Mat and water analyses might further allow to qualify anomalies in swamps, because in my Beep Mat survey of 2002 I located so far unexplained anomalies along the creek in the swamp northward from Jules Lake to L102N. Bedrock or clay was too deep down to reach with a pole and therefore to respond. Since the Beep Mat responds well to salt water it possibly may detect electrolite due to sulfides. Samples of stagnant swamp water may show values there, and may be best taken in the winter. Swamps over known serpentinite such as at Donut Lake, which also shows other indications, should be preferred.

More prospecting with the Beep Mat can discover more conductors, possibly one with chalcopyrite. This should be done nearer to the "Hollinger Copper" resource even if there are no airborne anomalies, nor serpentinite known. One must keep in mind that the occurrence lies only 10 to 80 m below the swamp, but 500m from the mapped serpentinite, yet did not register on any of the three airborne surveys, and is non-magnetic. However, it coincides with the IP anomaly on L10000N-10020E (T-5071 and T5209).

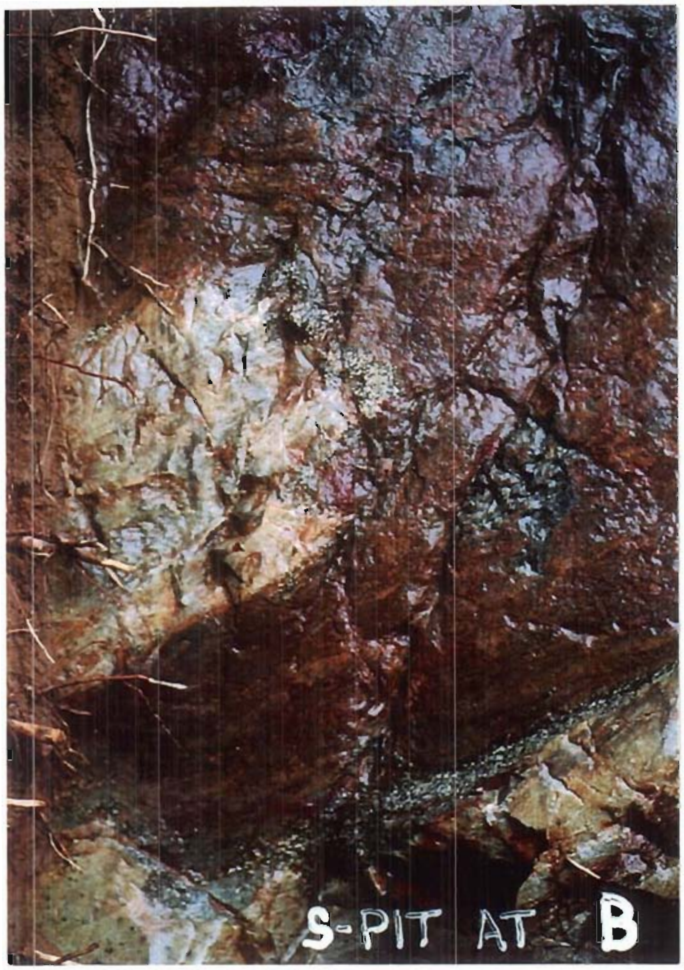
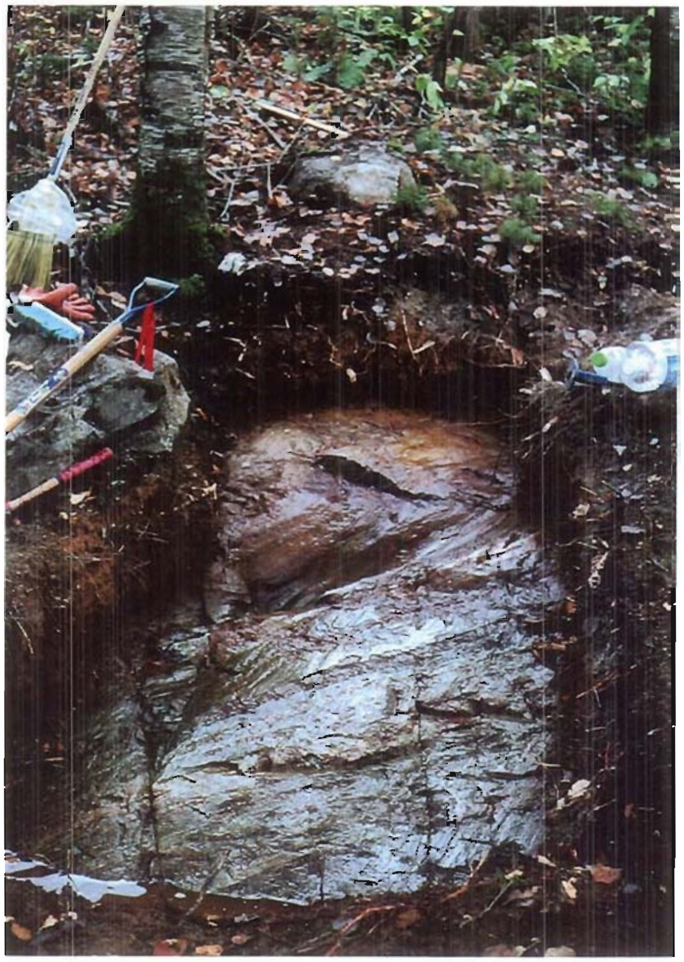
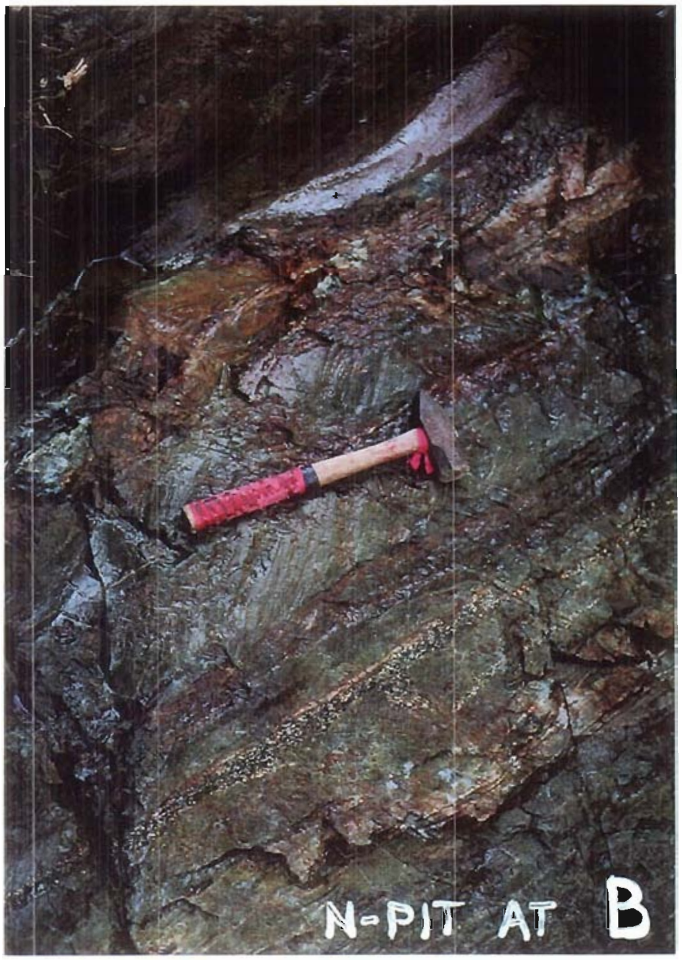
Respectfully submitted,

Timmins, 12 May 2008 — Hermann Daxl, M.Sc.

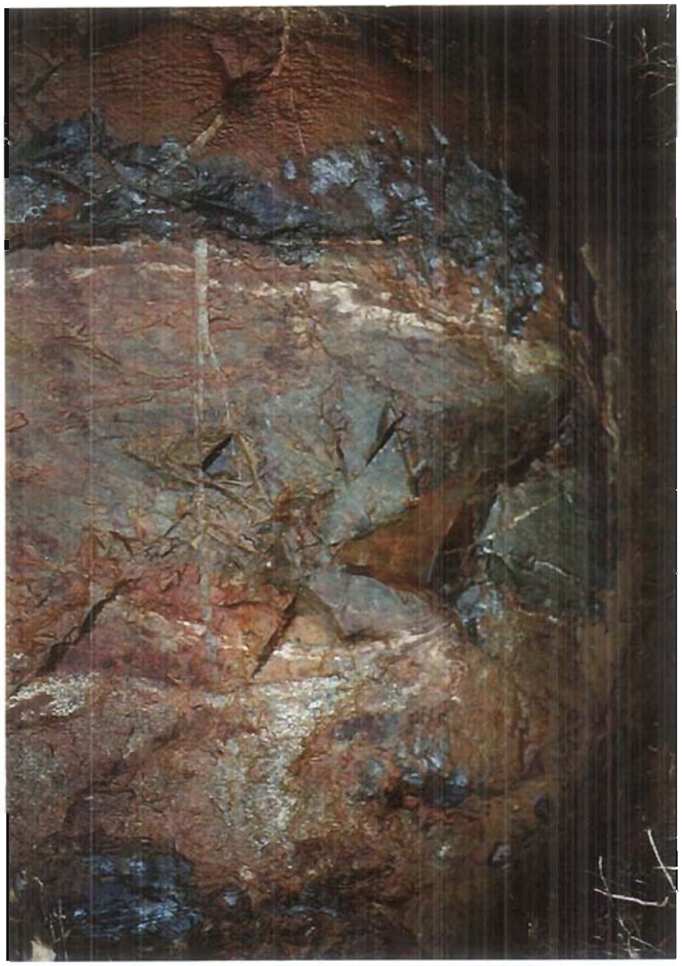
Record of Field Work Done

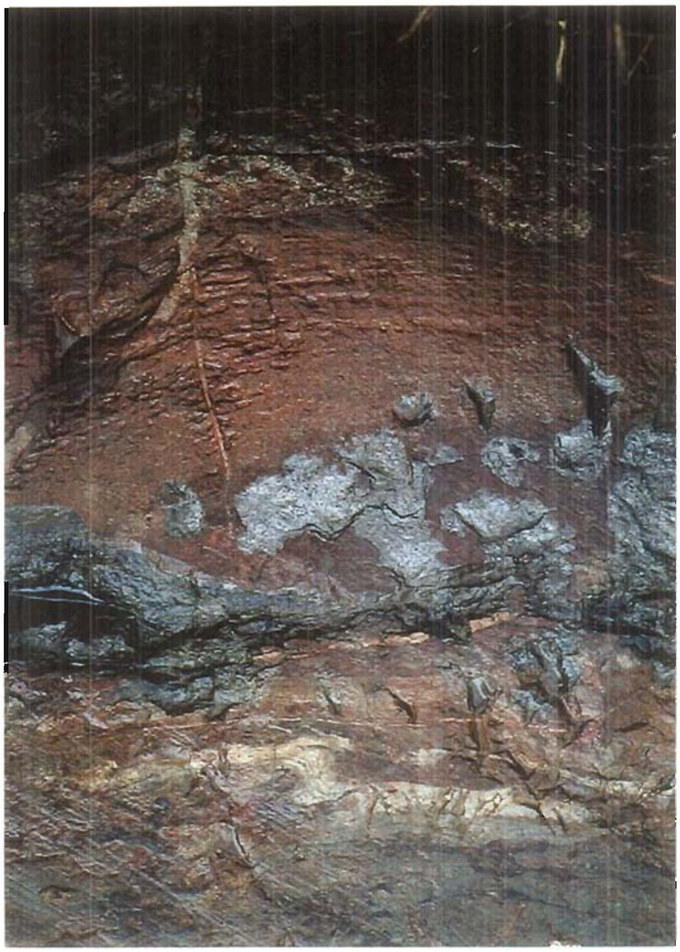
	BEEP MAT:
23 Sep 2007	Beep Mat area F, found only boulder.
25 " "	Beep Mat E, sample 709-710 of boulder F.
26 " "	Beep Mat area B, started digging.
27 " "	Dug 2 pits at B, samples 711-714, took photos.
28 " "	Beep Mat H and K, boulder? at H not dug up yet.
29 " "	Beep Mat D and N, sampled boulders 715-716.
30 " "	Beep Mat M and J, dug up only M, samples 717-719.
1 Oct 2007	Beep Mat C, dug 2 small pits, samples 721 and 729.
2 " "	Beep Mat A, dug up 2 spots, samples 722,23,26,27.
3 " "	Beep Mat G, no beeps, outcrop samples 724,25,28.
4 " "	Beep Mat L, no beeps, partly swamp, outlined beeps S.
13 " "	Beep Mat O, 2 areas beeped in line, started digging.
16 " "	Dug 1 pit, sampled 730-734, took photos.
17 " "	Washed and described samples
18 " "	Composed lab order and shipped samples
	STRIPPING:
29 " "	Attended to backhoe at S Stripping, took samples
30 " "	ditto
2 Nov 2007	Scraped bedrock of sand and clay, took samples
3 " "	ditto
4 " "	Swept and washed bedrock, took samples
5 " "	ditto
8 " "	Took samples
9 " "	Washed and described samples
10 " "	Composed lab order and shipped samples
13 " "	Dug by hand to expose more bedrock
14 " "	Swept and washed bedrock, started mapping
15 " "	Mapping, took till sample MUS for diamonds
16 " "	Swept and washed bedrock
17 " "	Mapping

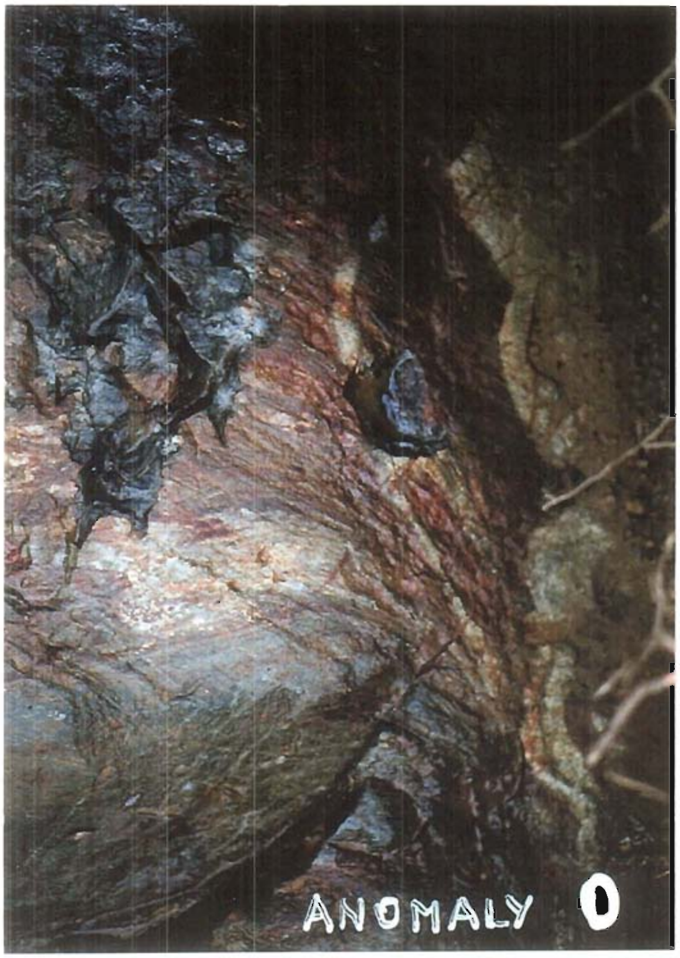
Total 29 days of Field Work done by Hermann Daxl



S-PIT AT B


N-PIT AT B

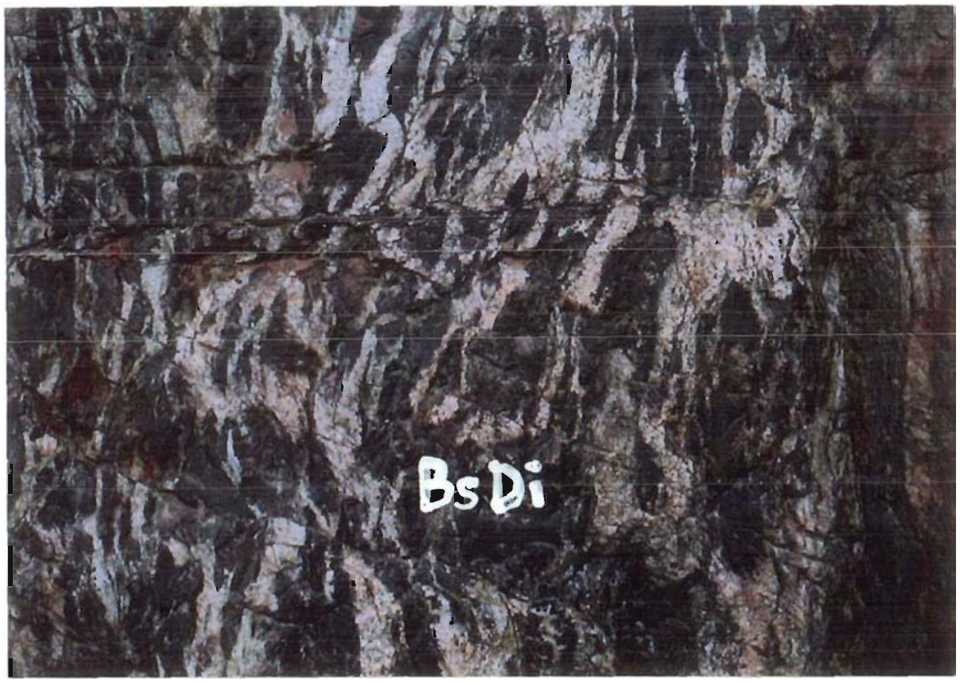
S-PIT (UPHILL) AT ANOMALY B






ANOMALY D


744
745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753
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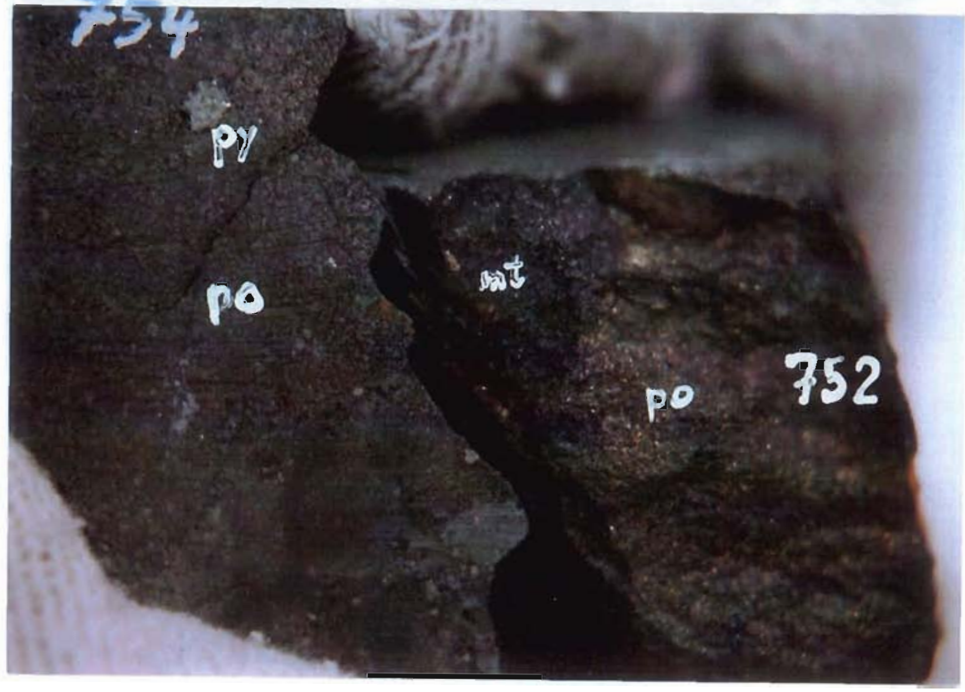
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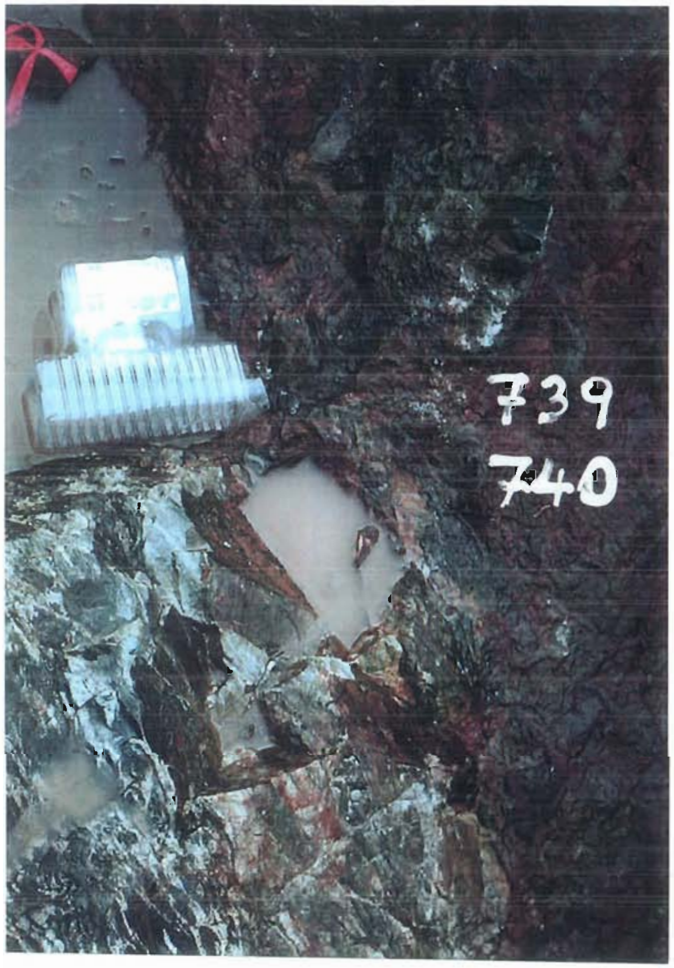
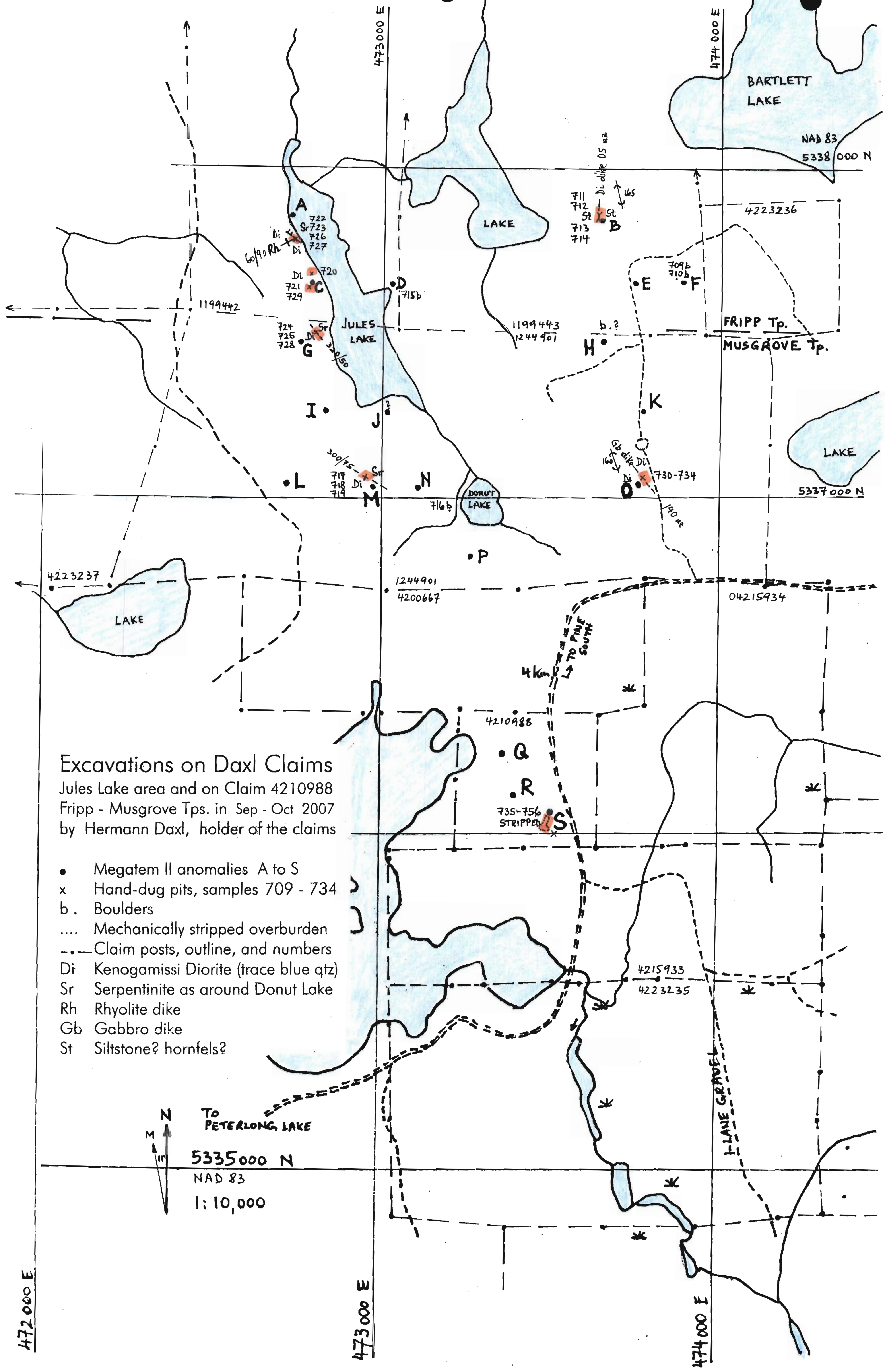


East contact

West Contact


Excavations on Daxl Claims
Jules Lake area and on Claim 4210988
Fripp - Musgrove Tps. in Sep - Oct 2007
by Hermann Daxl, holder of the claims
• Megatem II anomalies A to S
x Hand-dug pits, samples 709 - 734
b . Boulders
.... Mechanically stripped overburden
-•- Claim posts, outline, and numbers
Di Kenogamissi Diorite (trace blue qtz)
Sr Serpentinite as around Donut Lake
Rh Rhyolite dike
Gb Gabbro dike
St Siltstone? hornfels?
BARTLETT LAKE
NAD 83
5338 000 N
5337 000 N
5335000 N
NAD 83
1: 10,000
472 000 E
473000 E
474 000 E
JULES LAKE
DONUT LAKE
LAKE
FRIPP Tp.
MUSGROVE Tp.
4223236
1199442
1199443
1244901
4223237
4200667
04215934
4210988
4215933
4223235
TO PINE SOUTH
4 km
TO PETERLONG LAKE
1-LANE GRAVEL
735-756 STRIPPED
730-734
Di dike 05 az
Gb dike
140 az
60/90 Rh
300/75
320/50

STRIPPED BEDROCK

Claim 4210988 - Musgrove Tp.

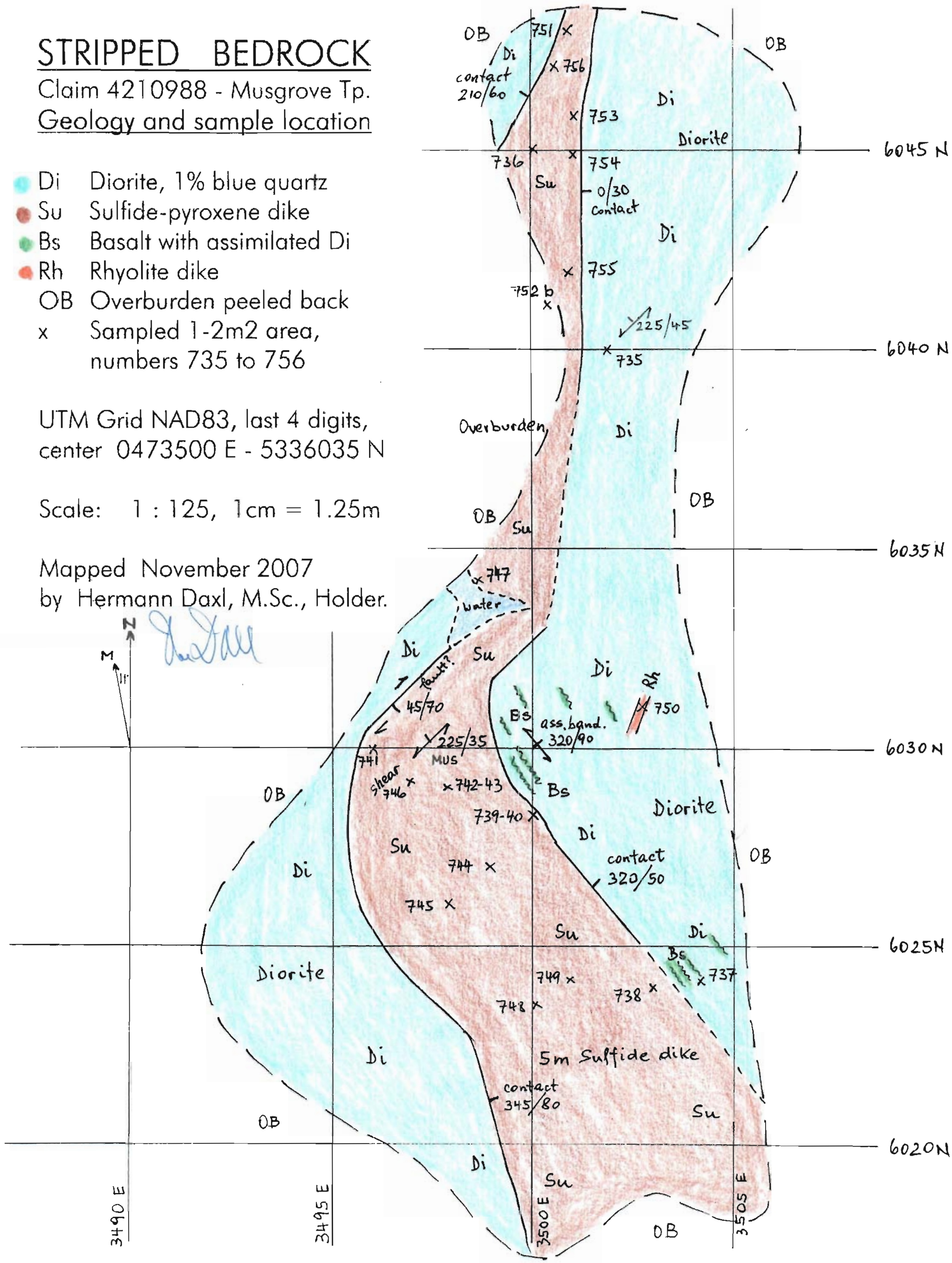
Geology and sample location

- Di Diorite, 1% blue quartz
- Su Sulfide-pyroxene dike
- Bs Basalt with assimilated Di
- Rh Rhyolite dike
- OB Overburden peeled back
- x Sampled 1-2m2 area, numbers 735 to 756

UTM Grid NAD83, last 4 digits, center 0473500 E - 5336035 N

Scale: 1 : 125, 1cm = 1.25m

Mapped November 2007
by Hermann Daxl, M.Sc., Holder.



Samples of Megatem II anomalies near Jules Lake
Fripp - Musgrove Townships

Anomaly		UTM 17 U, NAD83
	Sample	047.... E - 533.... N

F 709 b 3870 E - 7610 N (last 4 UTM digits)
Weakly to moderately magnetic boulder (=B) 35x65cm, square sub-rounded 2-layer slab. Very fine gabbro, 20% magnetic pyrrhotite, 5% pyrite, 5% covellite? 0.06% Cu, 0.26% Ni, 34.3%Fe, 8.3%S, 103ppb Pd.

F 710 b same boulder as 709
Boulder showing assimilation contact of diorite and fine gabbro 709.

B 711 3635 E - 7850 N, North-Pit (downslope).
Conductor 4x20m at az. 005, beeps 80 at 100%, samples 711-714. Fine deuteric? diorite dike with <20% fine disseminated magnetic pyrrhotite, pyrite, chalcopyrite; with siltstone? hornfels and xenoliths. Earlier coarser barren diorite as selvage and as dikelets in hornfels. Glacial striation az.165. See photos. 0.09% Cu, 0.13 % Zn, 5.8 % S.

B 712 at 711
Hornfels banding, 1% pyrite, downslope of 711 in same pit.

B 713 3634 E - 7839 N, South-Pit (upslope).
Uphill part of south-pit, fine diorite dike, nonmagnetic, 10% pyrite, trace magnetic pyrrhotite. See 711. 0.15 % Cu, 0.03 % Zn, 0.04% Co.

B 714 at 713
Fine-grained dike center, 10% very fine pyrite, 10% magnetic pyrrhotite.

D 715 b 3051 E - 7631 N
Sub-rounded 20x35cm boulder of banded iron formation? or dew-zone? <10cm layers of blue quartz with pyrite, >5cm of pyrrhotite-magnetite. 20% magnetite, 20% pyrrhotite and pyrite. 0.06% Cu, 0.39% Zn, 9.5% S.

N 716 b 3195 E - 6980 N
Sub-rounded 80x60cm boulder, several <10cm distinct magnetite- or quartz-rich layers, attached to diorite? 20% pyrrhotite throughout, 5% magnetite, 25% rust. Magnetite layers are not conductive. 0.08% Cu.

M 717 2955 E - 7062 N
Conductor 40x2m az.120 at contact (wavy 300/75?) of diorite in SW and weakly magnetic serpentinite in NE, namely from L8790N-8842E (dug pit here) to L8755N-8829E. On rock HF<5000, LF<1500, 25%. Nearby 50m long 4-8m wide 1-2m deep parallel gully az.126 through L88N-8825E, with diorite on both sides, could be a similar conductor but did not respond to the Beep Mat.
70% rust, 5% pyrite, locally weakly to moderately magnetic, massive dirty black fine-grained spalling due to rust, black streak, moderate conductor with voltmeter. Probably the margin of, or a dike on the contact to, the serpentinite in the east.
The 0.06% Ni and 0.02% Co at the serpentinite contact is not anomalous considering the 30.2% Fe.

M 718 at 717
Assimilated diorite xenolith near contact, nonmagnetic, 30% rusty fractures and nodular shear, trace fresh pyrite.

M 719 at 717
Barren fine serpentinite, 15% rust, from rusty fractures near contact to fresh at 1m, nonmagnetic. 2cm coarse diorite dikelet across it is not understood.

C 720 2787 E- 7674 N
Diorite with 15 % rusty fractures, trace pyrite, nonmagnetic.

C 721 2780 E - 7637 N
Beeps low 50 H and L, but <100%; 5x2m, az. 160. 50cm ridge at top slope. Diorite with weathered xenolith? 30% gossan, trace pyrite and chalcopyrite, nonmagnetic. See also 729.

A 722 2735 E - 7800 N
Fine pea-green serpentinite, 20% rust, nonmagnetic, quite hard.
At rhyolite dike in diorite, 60/90, very rusty, at contact to serpentinite in East. 3m from Jules Lake. H300, L200, 69%, on rock. See also 723, 726, 727. 0.21% total Cr.

A 723 2732 E - 7802 N
4m az. 305 from 722. Rusty diorite, likely at contact of az. 305. 20% gossan, nonmagnetic.

G 724 2797 E - 7492 N
Assimilation and shear over 2m at contact 320/50 between country rock diorite and very fine ultramafic. 30% gossan, nonmagnetic. See also 728.

G 725 at 724
0-5cm from contact, chilled ultramafic, 10% rust, trace chalcopyrite, nonmagnetic.

A 726 2735 E - 7800 N, at 722
Rhyolite dike at 722, 10% rust, trace very fine pyrite, nonmagnetic.

A 727 at 726 and 722
95% rust of 726, solid in place under ultramafic, trace very fine pyrite, nonmagnetic.

G 728 2797 E - 7492 N, at 724
Fresher part of 724. Assimilation and shear over 2m at contact 320/50 between country rock diorite and very fine ultramafic. 5% rust, trace very fine pyrite, nonmagnetic.

C 729 2780 E - 7637 N, at 721.

Richest part of 721. Diorite with weathered xenolith? 30% gossan, <5% bornite, chalcopyrite, pyrite, as <1cm nodules, nonmagnetic.
The 0.69 % Cu and 7.2 g/t Ag require a follow-up in case it is not a xenolith. 2.3 % S, 10.4 % Fe.

O 730 3775 E - 7053 N

Beeps 4x1.5m, and also at 20m az.140. Beeps on rock H39000, L30000, R77%; at 65cm H95, L60, R63%; at 1m H15, L13; at 1.2m nil. Pit dug15m E of TL95E of az.145. Glacial striations az.160. Assimilation banding az.120 with dextral kink. Probably a very fine-grained gabbro dike through diorite, with assimilated diorite, and a pyrrhotite-rich center. A later 2cm medium-grained diorite dikelet crosses all. See photos.
Sample 730 is from 15cm wide band of very fine gabbro with 35% magnetic pyrrhotite, trace bornite?, incl.1mm weathering crust, from east-side of pit. Same as 734.

O 731 at 730

Same as 730 but fresh without weathering. 0.05% Cu, 0.03% Ni, 7.9% S, 40% Fe.

O 732 at 730

Mostly fine gabbro with quartz schlieren, trace pyrrhotite, nonmagnetic, from west-side of pit.

O 733 at 730

Same fine gabbro with trace of very fine sulfides, nonmagnetic, from pit center.

O 734 at 730

Same as 730.

Samples of the Stripped Megatem II Anomaly
on Claim 4210988

UTM 17 U, NAD83 (last 4 digits)

Sample	047.... E - 533.... N

735 3502 E - 6040 N

Trace pyrite and rust, nonmagnetic, diorite and pyroxenite near contact, from a kink-shear.

736 3500 E - 6045 N

10% pyrrhotite <1mm, 10% rust after pyrite, variably magnetic pyroxenite.

737 3504 E - 6024 N

Trace pyrite, 5% rust, leached cavities, nonmagnetic, assimilation zone.

738 3503 E - 6024 N

20% pyrrhotite, 5% pyrite strings or veinlets, 15% rust, often very magnetic probably due to very fine dirty magnetite. Mostly magnetite where nodular and nonconductive. Pyroxenite.

739 3500 E - 6028 N

15% <3mm pyrite, 25% rust, nonmagnetic, pyroxenite and assimilation. 0.14% Cu.

740 3500 E - 6028 N

20% pyrrhotite, 3% pyrite, weakly magnetic, pyroxenite.

741 3496 E - 6030 N

15% pyrrhotite, 25% magnetite, 1% pyrite, very magnetic, chilled pyroxenite with coarser pyrrhotite schlieren. 0.11% Cu.

742 3498 E - 6029 N
3% pyrrhotite, 3% pyrite,10% rust, variably magnetic, pyroxenite with nodular shear 225/35.

743 3498 E - 6029 N (3m radius)
99% rusty red ochre from several spots, probably after pyrite veins through pyroxenite. 0.14% Cu.

744 3499 E - 6027 N
25% magnetite, 3% pyrrhotite, 2% pyrite, 5% rust, very magnetic, pyroxenite.

745 3498 E - 6026 N
10% pyrrhotite, 8% pyrite, 5% rust, 0-20% magnetite as diffuse layers, pyroxenite with local nodular shear or breccia.

746 3497 E - 6029 N
15% pyrite, 10% rust, weakly to nonmagnetic, partly barren pyroxenite. Pyrite as matrix where nodular shear, or locally interstitial to fine mafics. The only sample with cobalt despite similar iron in others.
0.17% Cu, 0.01% Ni, 0.04% Co, 3.3 g/t Ag, 28.1% Fe, 14.5% S.

747 3498 E - 6034 N
3% pyrrhotite, 1% pyrite, minor quartz with flesh-colored grains. Mostly nonmagnetic, pyroxenite with minor assimilation.

748 3500 E - 6023 N
30% pyrite as matrix, 10% rust, moderately or nonmagnetic, nodular pyroxenite. 0.13% Cu.

749 3501 E - 6024 N
25% pyrrhotite vs. 25% magnetite diffusely layered, very magnetic, sooty very fine pyroxenite. 0.12% Cu.

750 3503 E - 6031 N
70% yellow ochre, nonmagnetic, tip of injection of pyroxenite into diorite.

751 3501 E - 6048 N
25% net-textured pyrite, 10% rust, locally magnetic, pyroxenite with coarse actinolite and 30% quartz-chlorite-pyrite vein at contact of 40cm dike. 0.12% Cu.

752 b? 3501 E - 6042 N - boulder ?
20% pyrrhotite, 10% bornite-pyrite?, 25% magnetite including schlieren. Very magnetic, pyroxenite. 0.09% Cu, 6.3 g/t Ag.

753 3501 E - 6046 N
10% pyrrhotite, local layer of <60% fine nonmagnetic pyrrhotite groundmass around greenish mafic grains, also as aphanitic dark dirty very conductive layer with sulfide sheen, few pyrite grains in both layers. Only locally magnetic. 5% pyrite veinlets where nodular magnetic breccia, trace chalcopyrite plating in 25% diorite, locally nonmagnetic barren pyroxenite. 50cm from center to E-contact of 1m dike. 0.09% Cu.

754 3501 E - 6045 N
50% semi-massive to net-textured nonmagnetic pyrrhotite, <25% sooty magnetite locally, pyroxenite with 3% diorite-quartz assimilation.

755 3501 E - 6042 N
40% <2mm pyrrhotite, very good conductor despite individual but densely disseminated grains. Variably moderately magnetic due to diffuse 1cm magnetite vs. pyrrhotite layering, pyroxenite. 20cm from E-contact. Maybe same as 752 b.

756 3501 E - 6047 N
10% very fine-grained net-textured pyrite, nonmagnetic, pyroxenite with 20% diorite. <15cm from W-contact.

Quality Analysis ... *Innovative Technologies*

Date Submitted:	18-Oct-07
Invoice No.:	A07-5143
Invoice Date:	27-Dec-07
Your Reference:	BM4-OCT07

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

8 Rock samples were submitted for analysis. Made 250 pulp from <2mm crushed

The following analytical package was requested: Code 1H2 INAA(INAAGEO)/Total Digestion ICP(TOTAL)/Total Digestion ICP/MS

REPORT **A07-5143**

Notes:
Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Activation Laboratories Ltd. Report: A07-5143

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Ca	Co	Cr	Cs	Fe
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%
Detection Limit	2	5	0.3	1	0.3	1	3	20	1	50	1	0.01	0.01	0.5	50	1	0.1	0.5	0.01	1	1	2	1	0.01
Analysis Method	INAA	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	MULT INAA / TD-ICP	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-MS	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
709	21	< 5	0.9	646	1.8	< 1	5	2510	2660	< 50	17	8.29	0.38	< 0.5	< 50	< 1	0.2	< 0.5	0.97	< 1	123	12	< 1	34.3
711	< 2	< 5	0.9	871	4.3	6	6	120	121	1380	1340	5.79	5.42	< 0.5	< 50	< 1	0.1	< 0.5	2.36	3	69	42	< 1	14.5
715	37	< 5	1.9	641	5.7	3	19	60	59	3860	4100	9.46	0.83	2.7	100	2	0.3	< 0.5	3.07	3	54	36	< 1	22.3
716	28	< 5	2.0	771	1.6	1	15	40	41	550	598	6.71	0.21	6.4	< 50	3	< 0.1	< 0.5	3.51	4	38	26	< 1	17.0
717	< 2	< 5	1.0	411	1.9	2	< 3	570	564	< 50	74	19.0	1.89	< 0.5	< 50	< 1	2.1	< 0.5	2.06	< 1	198	87	1	30.2
722	< 2	< 5	0.5	229	1.0	2	3	200	189	< 50	82	0.28	2.84	< 0.5	230	< 1	0.8	1.7	1.84	2	16	2080	2	13.1
729	< 2	< 5	7.2	6900	0.8	42	< 3	< 20	31	< 50	68	2.32	6.89	< 0.5	< 50	< 1	0.7	< 0.5	1.38	< 1	54	53	< 1	10.4
731	< 2	< 5	1.0	503	2.2	3	< 3	310	331	130	116	7.90	2.18	4.3	< 50	< 1	0.5	< 0.5	1.07	< 1	205	41	< 1	40.0

Activation Laboratories Ltd. Report: A07-5143

Analyte Symbol	Hf	Ge	Hg	In	Re	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Se	Sn	Sn	Sr	Sr	Ta	Te	Ti
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
Detection Limit	1	0.1	1	0.2	0.001	5	0.01	0.5	0.01	1	0.01	0.001	15	0.1	0.1	3	0.1	0.01	1	1	0.05	0.5	0.1	0.01
Analysis Method	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	MULT INAA/TD-ICP-MS	INAA	TD-MS	TD-ICP	INAA	INAA	TD-MS	TD-ICP
709	< 1	0.3	< 1	< 0.2	0.006	< 5	0.01	< 0.5	1.13	3000	< 0.01	0.006	< 15	0.3	0.5	5	5.3	< 0.01	< 1	7	< 0.05	< 0.5	0.5	0.02
711	< 1	0.2	< 1	< 0.2	0.006	< 5	0.47	13.0	0.81	414	1.71	0.036	< 15	< 0.1	7.9	9	8.6	< 0.01	1	243	< 0.05	< 0.5	1.2	0.16
715	< 1	0.4	4	1.6	0.011	< 5	0.02	9.8	1.92	2490	0.06	0.071	< 15	< 0.1	9.1	18	18.0	< 0.01	8	8	< 0.05	0.6	4.1	0.05
716	< 1	0.2	< 1	0.9	0.003	< 5	0.01	2.2	1.87	2340	0.03	0.059	< 15	< 0.1	2.3	7	7.0	< 0.01	6	10	< 0.05	< 0.5	3.1	0.01
717	< 1	0.3	< 1	< 0.2	0.005	< 5	0.24	4.2	1.65	1130	0.50	0.036	< 15	< 0.1	7.9	< 3	< 0.1	< 0.01	2	55	< 0.05	< 0.5	1.1	0.09
722	< 1	0.1	< 1	< 0.2	0.001	< 5	0.02	2.4	11.4	566	0.09	0.012	< 15	< 0.1	17.5	< 3	< 0.1	< 0.01	< 1	5	< 0.05	< 0.5	1.7	0.18
729	2	0.3	< 1	< 0.2	0.010	< 5	0.37	15.3	1.37	952	2.46	0.040	< 15	< 0.1	8.4	< 3	< 0.1	< 0.01	< 1	236	< 0.05	< 0.5	0.6	0.34
731	< 1	0.4	< 1	< 0.2	0.011	< 5	0.09	10.7	1.27	228	0.81	0.054	< 15	0.2	4.8	9	8.6	< 0.01	< 1	63	< 0.05	< 0.5	1.4	0.07

Activation Laboratories Ltd. Report: A07-5143

Analyte Symbol	Th	Tl	U	V	W	Y	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.2	0.1	0.5	2	1	1	0.5	3	5	0.1	0.2	0.5	0.2	0.05	
Analysis Method	INAA	TD-MS	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
709	< 0.2	< 0.1	< 0.5	15	< 1	2	1.4	< 3	< 5	0.2	< 0.2	< 0.5	0.3	0.08	37.0
711	< 0.2	0.2	< 0.5	75	< 1	5	8.3	17	8	1.2	0.6	< 0.5	0.4	0.08	29.6
715	< 0.2	< 0.1	< 0.5	54	< 1	13	4.4	13	< 5	1.4	1.3	< 0.5	1.4	0.26	34.2
716	0.3	< 0.1	< 0.5	25	< 1	15	4.2	16	< 5	1.5	1.5	< 0.5	1.5	0.25	32.1
717	< 0.2	< 0.1	< 0.5	56	< 1	6	3.4	9	< 5	0.9	0.3	< 0.5	0.6	0.06	37.2
722	< 0.2	< 0.1	< 0.5	125	< 1	4	1.1	< 3	< 5	0.4	< 0.2	< 0.5	0.7	0.13	22.4
729	3.1	0.1	< 0.5	79	< 1	7	9.6	20	9	1.4	0.6	< 0.5	0.8	0.15	27.5
731	< 0.2	< 0.1	< 0.5	45	< 1	5	4.9	12	7	1.0	0.4	< 0.5	0.5	0.09	33.5

Activation Laboratories Ltd. Report: A07-5143

Quality Control

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Detection Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01
Analysis Method	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP
GXR-1 Meas		31.6		1090	4.0	16	751	42		782		0.23	2.21
GXR-1 Cert		31.0		1110	3.30	18.0	730	41.0		760		0.257	3.52
DNC-1 Meas		< 0.3		93		< 1	5	242		57		0.05	9.35
DNC-1 Cert		0.0270		96.0		0.700	6.30	247		66.0		0.0390	9.69
GXR-4 Meas		3.9		5660	0.8	309	64	42		78		1.74	6.53
GXR-4 Cert		4.00		6520	0.860	310	52.0	42.0		73.0		1.77	7.20
GXR-2 Meas		16.7		67	2.5	< 1	640	21		467		0.03	16.0
GXR-2 Cert		17.0		76.0	4.10	2.10	690	21.0		530		0.0313	16.5
SDC-1 Meas		< 0.3		27	0.5	< 1	25	37		103		0.07	8.54
SDC-1 Cert		0.0410		30.0	0.0800	0.250	25.0	38.0		103		0.0650	8.34
SCO-1 Meas		0.5		27	0.3	< 1	31	34		98			7.59
SCO-1 Cert		0.134		28.7	0.140	1.37	31.0	27.0		103			7.24
GXR-6 Meas		0.5		62	1.3	2	95	28		125		< 0.01	7.96
GXR-6 Cert		1.30		66.0	1.00	2.40	101	27.0		118		0.0160	17.7
OREAS 13P Meas				2540				2070					
OREAS 13P Cert				2500				2260					
DMMAS-104 Meas	228										110		
DMMAS-104 Cert	229										96.2		
731 Split	6	1.0	< 5	464	2.2	3	6	337	330	116	130	7.53	2.17
Method Blank Method Blank													

Analyte Symbol	As	Ba	Be	Bi	Br	Ca	Ca	Co	Cr	Cs	Fe
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%
Detection Limit	0.5	50	1	0.1	0.5	0.01	1	1	2	1	0.01
Analysis Method	INAA	INAA	TD-ICP	TD-MS	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas			1	1260		0.88					
GXR-1 Cert			1.22	1380		0.960					
DNC-1 Meas			< 1			7.75					
DNC-1 Cert			1.00			8.06					
GXR-4 Meas			2	14.2		1.10					
GXR-4 Cert			1.90	19.0		1.01					
GXR-2 Meas			2	< 0.1		0.95					
GXR-2 Cert			1.70	0.690		0.930					
SDC-1 Meas			3			1.18					
SDC-1 Cert			3.00			1.00					
SCO-1 Meas			2			2.14					
SCO-1 Cert			1.84			1.87					
GXR-6 Meas			1	< 0.1		0.17					
GXR-6 Cert			1.40	0.290		0.180					
OREAS 13P Meas											
OREAS 13P Cert											
DMMAS-104 Meas	1570	860					6	45	102		5.63
DMMAS-104 Cert	1570	850					4.3	48.8	95.1		5.61
731 Split	3.8	< 50	< 1	0.5	< 0.5	1.07	< 1	207	44	< 1	39.3
Method Blank Method Blank				< 0.1							

Quality Analysis ... **Innovative Technologies**

Date Submitted:	18-Oct-07
Invoice No.:	A07-5144
Invoice Date:	07-Dec-07
Your Reference:	BM4-OCT07

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

26 Rock samples were submitted for analysis.

The following analytical package was requested: Code 1C-Exp Fire Assay-ICP/MS {30 g from 250 g pulp from 2 mm-crushed}
4 Litho

REPORT **A07-5144**

Notes:
We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY :

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Activation Laboratories Ltd. Report: A07-5144

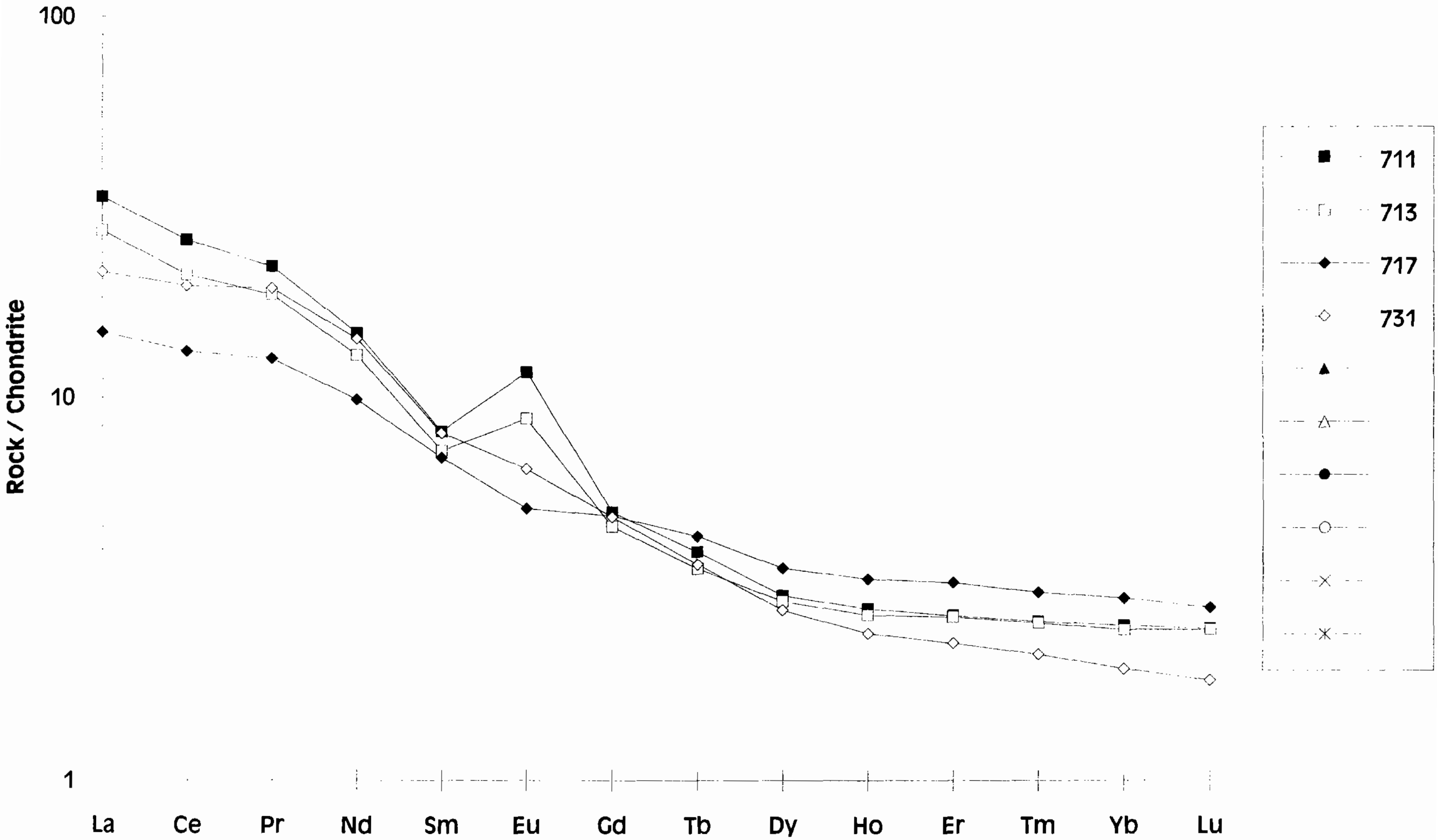
Analyte Symbol	Pd	Pt	Au	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr	Co
Unit Symbol	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	2	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	1	1	5	3	2	2	4	20	1
Analysis Method	FA-MS	FA-MS	FA-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS
709	103	< 6	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
710	41	19	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
711	< 6	< 6	< 10	48.44	12.18	23.07	0.058	1.61	3.60	2.67	0.65	0.371	0.08	5.80	98.53	10	< 1	93	116	268	5	41	50	76
712	< 6	< 6	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
713	< 6	< 6	20	46.16	10.31	24.38	0.082	2.06	3.18	2.83	0.53	0.300	0.09	9.84	99.77	10	< 1	56	106	167	4	25	50	385
714	< 6	19	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
715	< 6	< 6	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
716	< 6	< 6	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
717	< 6	< 6	< 10	18.83	4.00	51.84	0.181	3.49	3.79	0.79	0.32	0.178	0.10	17.42	100.9	11	< 1	63	83	59	7	51	90	213
718	< 5	< 5	< 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
719	9	7	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
720	< 2	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
721	< 2	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
722	3	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
723	< 2	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
724	2	18	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
725	3	12	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726	< 2	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
727	14	< 3	< 6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
728	< 2	< 2	< 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
729	< 6	< 6	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
730	< 6	30	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
731	< 6	< 6	< 10	14.58	4.36	63.13	0.037	2.73	2.42	1.24	0.16	0.209	0.16	11.54	100.6	6	< 1	44	46	64	5	17	40	221
732	< 6	< 6	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
733	< 6	< 6	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
734	< 3	< 3	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Activation Laboratories Ltd. Report: A07-5144

Analyte Symbol	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	20	10	30	1	1	5	2	1	2	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
709	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
711	120	880	1430	14	1	< 5	18	3	9	< 0.5	< 0.2	2	< 0.5	0.7	10.6	21.2	2.49	8.9	1.6	0.85	1.3	0.2	1.0	0.2
712	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
713	70	1490	280	15	1	9	18	2	6	< 0.5	< 0.2	< 1	< 0.5	< 0.5	8.7	17.2	2.10	7.8	1.4	0.64	1.2	0.2	1.0	0.2
714	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
715	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
716	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
717	550	350	70	5	< 1	< 5	9	1	6	< 0.5	< 0.2	2	< 0.5	< 0.5	4.7	10.8	1.42	5.9	1.3	0.37	1.3	0.2	1.2	0.2
718	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
719	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
721	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
722	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
723	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
724	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
725	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
727	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
728	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
729	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
730	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
731	340	420	120	4	< 1	6	4	2	6	< 0.5	< 0.2	< 1	< 0.5	< 0.5	6.8	16.1	2.18	8.6	1.6	0.47	1.3	0.2	0.9	0.2
732	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
733	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
734	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Activation Laboratories Ltd. Report: A07-5144

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.4	0.1	0.1
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
709	--	--	--	--	--	--	--	--	--	--	--	--
710	--	--	--	--	--	--	--	--	--	--	--	--
711	0.6	0.08	0.5	0.08	1.1	0.2	< 1	0.1	< 5	< 0.4	0.5	1.2
712	--	--	--	--	--	--	--	--	--	--	--	--
713	0.6	0.08	0.5	0.08	0.8	0.1	< 1	< 0.1	9	1.7	0.2	0.1
714	--	--	--	--	--	--	--	--	--	--	--	--
715	--	--	--	--	--	--	--	--	--	--	--	--
716	--	--	--	--	--	--	--	--	--	--	--	--
717	0.7	0.10	0.6	0.09	1.0	0.1	< 1	< 0.1	< 5	3.0	0.5	0.2
718	--	--	--	--	--	--	--	--	--	--	--	--
719	--	--	--	--	--	--	--	--	--	--	--	--
720	--	--	--	--	--	--	--	--	--	--	--	--
721	--	--	--	--	--	--	--	--	--	--	--	--
722	--	--	--	--	--	--	--	--	--	--	--	--
723	--	--	--	--	--	--	--	--	--	--	--	--
724	--	--	--	--	--	--	--	--	--	--	--	--
725	--	--	--	--	--	--	--	--	--	--	--	--
726	--	--	--	--	--	--	--	--	--	--	--	--
727	--	--	--	--	--	--	--	--	--	--	--	--
728	--	--	--	--	--	--	--	--	--	--	--	--
729	--	--	--	--	--	--	--	--	--	--	--	--
730	--	--	--	--	--	--	--	--	--	--	--	--
731	0.5	0.07	0.4	0.06	0.5	0.1	< 1	< 0.1	< 5	1.5	0.2	0.2
732	--	--	--	--	--	--	--	--	--	--	--	--
733	--	--	--	--	--	--	--	--	--	--	--	--
734	--	--	--	--	--	--	--	--	--	--	--	--


100
10
1
Rock / Chondrite
La
Ce
Pr
Nd
Sm
Eu
Gd
Tb
Dy
Ho
Er
Tm
Yb
Lu
711
713
717
731

Quality Control

Analyte Symbol	Pd	Pt	Au	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	Sc	Be	V	Ba	Sr	Y	Zr	Cr	Co	Ni	Cu
Unit Symbol	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	2	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	1	1	5	3	2	2	4	20	1	20	10
Analysis Method	FA-MS	FA-MS	FA-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS
GXR-1 Meas																					< 20	7	40	1100
GXR-1 Cert																					12.0	8.20	41.0	1110
WMG-1 Meas																					760	190	2580	5610
WMG-1 Cert																					770	200	2700	5900
NIST 694 Meas				11.87	2.24	0.94	0.018	0.39	43.32	0.95	0.74	0.123	29.86			1600								
NIST 694 Cert				11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2			1740								
DNC-1 Meas				47.00	18.29	9.71	0.148	10.08	11.22	1.90	0.29	0.490	0.13	31	< 1	178	109	145	18	34	280	55	250	120
DNC-1 Cert				47.0	18.3	9.93	0.149	10.1	11.3	1.87	0.234	0.480	0.0900	31.0	1.00	148	114	145	18.0	41.0	285	54.7	247	96.0
BIR-1 Meas				48.06	15.59	11.26	0.172	9.62	13.28	1.80	0.12	0.972	0.09	44	1	347	14	111	18	13	380	50	170	170
BIR-1 Cert				47.8	15.4	11.3	0.171	9.68	13.2	1.75	0.0300	0.960	0.0500	44.0	0.580	313	7.00	108	16.0	16.0	382	51.4	166	126
MICA-FE Meas																					90	25	40	< 10
MICA-FE Cert																					90.0	23.0	35.0	5.00
GXR-2 Meas																					30	8	< 20	100
GXR-2 Cert																					36.0	8.60	21.0	76.0
FK-N Meas				66.01	18.43	0.13	0.002	0.01	0.10	2.45	12.56	0.004	0.02	< 1	1	< 5	206	38	< 2	5				
FK-N Cert				65.0	18.6	0.0900	0.00500	0.0100	0.110	2.58	12.8	0.0200	0.0240	1.00	1.00	5.00	200	39.0	0.500	13.0				
LKSD-3 Meas																					80	29	50	40
LKSD-3 Cert																					87.0	30.0	47.0	35.0
MAG-1 Meas																					100	24	50	40
MAG-1 Cert																					97.0	20.4	53.0	30.0
NIST 1633b Meas				49.40	28.35	10.97	0.017	0.82	2.23	0.32	2.26	1.297	0.59	41		316	716	1037						
NIST 1633b Cert				49.2	28.4	11.1	0.0200	0.800	2.11	0.270	2.35	1.32	0.530	41.0		296	709	1040						
SY-3 Meas				59.20	11.90	6.23	0.315	2.64	7.97	4.14	4.50	0.135	0.49	6	22	60	453	271	131	282				
SY-3 Cert				59.6	11.8	6.49	0.320	2.67	8.25	4.12	4.23	0.150	0.540	7.00	20.0	50.0	450	302	718	320				
W-2a Meas				52.24	15.15	10.66	0.166	6.34	10.88	2.20	0.67	1.079	0.22	35	1	304	175	196	22	90	90	42	80	140
W-2a Cert				52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130	36.0	1.30	262	182	190	24.0	94.0	92.0	43.0	70.0	110
CDN-PGMS-9 Meas	2600	705	1080																					
CDN-PGMS-9 Cert	2600	710	1040																					
NIST 696 Meas				3.98	53.59	8.40	0.005	0.03	0.08		0.03	2.605	0.06			421				1058				
NIST 696 Cert				3.79	54.5	8.70	0.00400	0.0120	0.0180		0.00900	2.64	0.0500			403				1040				
CDN-PGMS-8 Meas	1540	433	869																					
CDN-PGMS-8 Cert	1500	440	820																					
JSD-3 Meas				78.73	10.07	4.23	0.146	1.21	0.68	0.47	1.96	0.419	0.13											
JSD-3 Cert				76.000	9.908	4.368	0.148	1.17	0.56	0.411	1.971	0.403	0.0817											
CTA-AC-1 Meas																						< 1		80
CTA-AC-1 Cert																						2.72		54.0
718 Orig	< 3	< 3	< 6																					
718 Dup	< 6	23	30																					
727 Split	15	3	< 6																					
728 Orig	< 2	< 2	< 4																					
728 Dup	< 2	< 2	< 4																					
734 Split	< 6	< 6	< 10																					
Method Blank Method Blank																					< 20	< 1	< 20	< 10
Method Blank Method Blank	< 1	< 1	< 2																					

Quality Analysis ... *Innovative Technologies*

Date Submitted:	18-Oct-07
Invoice No.:	A07-5145
Invoice Date:	26-Nov-07
Your Reference:	

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package was requested: Code 1F Total Digestion ICP(TOTAL) 4 acid

REPORT **A07-5145**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Activation Laboratories Ltd.   Report: A07-5145

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Na	Ni	Pb	Zn	Al	Be	Bi	Ca	Co	Fe	K	Mg	P	Sr	Ti	V	Y	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	%	ppm	ppm	%
Detection Limit	0.3	0.3	1	1	1	0.01	1	3	1	0.01	1	2	0.01	1	0.01	0.01	0.01	0.001	1	0.01	2	2	0.01
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
713	3.1	1.4	1760	565	3	2.07	81	9	285	4.43	< 1	< 2	2.14	415	17.6	0.38	1.07	0.039	156	0.17	57	4	16.3
714	3.4	2.1	1260	881	2	2.27	109	6	620	3.79	1	< 2	3.47	95	16.5	0.39	1.26	0.047	245	0.22	66	3	8.33
724	0.4	0.5	137	746	2	1.62	55	< 3	62	4.88	1	< 2	3.08	15	6.91	1.09	1.98	0.044	179	0.21	104	5	0.74
727	2.5	1.7	635	370	18	0.34	27	21	59	2.70	< 1	< 2	3.87	8	24.2	0.30	4.99	0.018	36	0.14	129	9	0.82

Quality Analysis ... *Innovative Technologies*

Date Submitted:	19-Nov-07
Invoice No.:	A07-5943
Invoice Date:	21-Dec-07
Your Reference:	EXCAVMUS

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

22 Chips + 1 pulp
~~23 Pulp~~ samples were submitted for analysis. Prep. mild steel 90% < 2 mm (< 0.2% Fe contam.)

The following analytical packages were requested:

Code 1C-Exp Fire Assay-ICP/MS 30 g of 250 g pulp
Code 1C-Rh Rhodium FA ICP/MS 30 g - " -
Code 1D INAA(INAAGEO) - " -

REPORT **A07-5943**

Notes:
For values exceeding the upper limits we recommend assays.
We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY :

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Activation Laboratories Ltd. Report: A07-5943

Analyte Symbol	Pd	Pt	Au	Rh	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	2	5	5	5	2	100	1	1	5	10	2	0.02	1	1	5	5	0.05	50	30	0.2	0.1	5
Analysis Method	FA-MS	FA-MS	FA-MS	FA-MS	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
735	--	--	--	--	< 5	< 5	6	< 100	< 1	3	21	60	< 2	5.02	2	< 1	< 5	7	3.89	< 50	< 30	< 0.2	15.5	< 5
736	--	--	--	--	< 5	< 5	6	< 100	< 1	< 1	53	20	< 2	33.6	< 1	< 1	< 5	< 5	0.35	< 50	< 30	< 0.2	3.0	< 5
737	< 10	< 10	< 20	--	< 5	< 5	7	300	< 1	< 1	15	40	< 2	4.28	2	< 1	< 5	< 5	2.93	< 50	< 30	< 0.2	7.2	< 5
738	< 6	< 6	< 10	< 20	< 5	< 5	5	< 100	< 1	2	46	10	5	26.6	< 1	< 1	< 5	< 5	0.12	< 50	< 30	0.3	3.4	< 5
739	< 6	< 6	< 10	--	12	< 5	6	< 100	< 1	< 1	76	20	< 2	24.2	< 1	< 1	< 5	< 5	0.19	100	40	< 0.2	4.4	8
740	--	--	--	--	< 5	< 5	< 2	< 100	< 1	4	37	< 10	< 2	24.3	< 1	< 1	< 5	< 5	0.22	120	< 30	< 0.2	3.4	< 5
741	< 6	< 6	10	< 20	< 5	< 5	5	300	< 1	3	34	20	4	26.9	< 1	< 1	< 5	< 5	0.18	130	< 30	0.3	4.5	< 5
742	--	--	--	--	15	< 5	6	< 100	< 1	< 1	37	10	7	25.0	< 1	< 1	< 5	< 5	0.13	< 50	< 30	< 0.2	4.2	< 5
743	< 6	< 6	< 10	--	< 5	< 5	6	< 100	< 1	< 1	37	30	5	33.1	< 1	< 1	< 5	< 5	0.17	< 50	< 30	< 0.2	4.7	< 5
744	--	--	--	--	34	< 5	5	< 100	< 1	3	16	20	< 2	38.7	< 1	< 1	< 5	< 5	0.06	< 50	< 30	< 0.2	2.8	< 5
745	< 6	< 6	< 10	--	15	< 5	4	< 100	< 1	< 1	40	20	< 2	33.9	< 1	< 1	< 5	< 5	0.10	150	40	< 0.2	3.0	< 5
746	--	--	--	--	34	< 5	22	< 100	< 1	3	523	20	7	29.4	< 1	< 1	< 5	< 5	0.10	< 50	< 30	0.4	3.1	< 5
747	--	--	--	--	< 5	< 5	3	< 100	< 1	< 1	38	30	3	16.9	< 1	< 1	< 5	< 5	1.34	< 50	< 30	< 0.2	5.6	< 5
748	< 6	< 6	10	< 20	23	< 5	9	< 100	< 1	3	42	20	12	22.4	< 1	< 1	< 5	< 5	0.29	< 50	< 30	0.6	4.9	< 5
749	< 6	< 6	< 10	--	< 5	< 5	4	< 100	< 1	< 1	37	20	< 2	31.8	< 1	< 1	< 5	< 5	0.12	< 50	< 30	< 0.2	4.5	< 5
750	< 3	< 3	< 6	--	< 5	< 5	9	< 100	< 1	3	30	20	< 2	7.67	2	< 1	< 5	< 5	1.33	< 50	< 30	0.3	10.1	< 5
751	< 6	< 6	< 10	--	< 5	< 5	5	< 100	2	< 1	70	30	< 2	17.8	< 1	< 1	< 5	< 5	0.21	< 50	< 30	< 0.2	3.5	< 5
752	< 6	< 6	< 10	--	< 5	< 5	< 2	< 100	< 1	< 1	75	30	< 2	31.5	< 1	< 1	< 5	< 5	0.14	< 50	< 30	< 0.2	4.5	< 5
753	< 6	< 6	< 10	--	< 5	< 5	6	< 100	< 1	< 1	43	40	< 2	22.5	1	< 1	< 5	< 5	0.36	< 50	< 30	< 0.2	8.2	< 5
754	< 6	< 6	< 10	< 20	< 5	< 5	5	< 100	< 1	< 1	79	20	< 2	32.6	< 1	< 1	< 5	< 5	0.07	< 50	< 30	0.4	4.0	< 5
755	< 6	< 6	< 10	< 20	< 5	< 5	6	< 100	< 1	< 1	45	20	< 2	37.5	< 1	< 1	< 5	< 5	0.10	< 50	< 30	< 0.2	2.1	< 5
756	--	--	--	--	< 5	< 5	3	< 100	< 1	< 1	32	50	< 2	18.5	1	< 1	< 5	< 5	0.96	230	< 30	< 0.2	11.7	< 5
757 TEST PULP	2150	905	20	--	< 5	9	12	< 100	< 1	< 1	1170	510	< 2	33.4	2	< 1	29	< 5	0.24	> 10000	< 30	4.0	4.5	34

Analyte Symbol	Sn	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.05	0.1	1	0.5	0.5	4	50	1	3	5	0.1	0.2	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
735	< 0.05	< 0.1	< 1	2.7	< 0.5	< 4	170	14	24	< 5	1.8	1.0	< 0.5	1.4	0.18	24.5
736	< 0.05	< 0.1	< 1	1.7	< 0.5	< 4	< 50	6	7	< 5	0.7	0.6	< 0.5	< 0.2	0.07	38.6
737	< 0.05	< 0.1	< 1	2.7	< 0.5	< 4	< 50	14	23	10	1.7	0.7	< 0.5	0.7	0.09	23.3
738	< 0.05	< 0.1	< 1	1.7	< 0.5	< 4	< 50	6	7	< 5	0.9	0.6	< 0.5	0.9	0.18	37.7
739	< 0.05	< 0.1	< 1	2.0	< 0.5	< 4	< 50	5	< 3	< 5	1.0	0.5	< 0.5	1.0	0.11	34.8
740	< 0.05	< 0.1	< 1	1.8	< 0.5	< 4	70	4	6	< 5	0.7	0.3	< 0.5	0.9	0.21	36.1
741	< 0.05	< 0.1	< 1	1.9	< 0.5	< 4	< 50	6	11	< 5	1.1	0.6	< 0.5	0.7	0.17	35.8
742	< 0.05	< 0.1	< 1	1.7	< 0.5	6	100	4	5	< 5	0.8	< 0.2	< 0.5	0.7	0.14	39.9
743	< 0.05	< 0.1	< 1	3.0	< 0.5	< 4	< 50	13	17	9	2.2	0.6	< 0.5	1.4	0.21	27.3
744	< 0.05	< 0.1	< 1	1.9	< 0.5	< 4	< 50	3	5	< 5	0.6	0.4	< 0.5	0.8	0.14	35.5
745	< 0.05	< 0.1	< 1	1.8	< 0.5	< 4	< 50	3	< 3	8	0.7	0.6	< 0.5	< 0.2	0.17	33.8
746	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	4	< 3	< 5	0.8	< 0.2	< 0.5	1.1	< 0.05	33.6
747	< 0.05	< 0.1	< 1	1.3	2.8	< 4	< 50	9	15	< 5	1.2	0.7	< 0.5	0.9	< 0.05	28.5
748	< 0.05	< 0.1	< 1	0.8	< 0.5	< 4	< 50	7	14	11	1.1	0.7	< 0.5	0.8	0.14	30.9
749	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	6	11	< 5	0.9	0.8	< 0.5	1.2	0.21	34.3
750	< 0.05	< 0.1	< 1	1.7	1.8	< 4	< 50	14	20	15	1.9	0.9	< 0.5	1.5	0.16	27.4
751	< 0.05	< 0.1	< 1	0.8	1.3	< 4	< 50	4	8	12	0.6	< 0.2	< 0.5	0.4	< 0.05	26.0
752	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	4	10	< 5	0.9	< 0.2	< 0.5	0.6	< 0.05	28.9
753	< 0.05	< 0.1	< 1	0.9	< 0.5	< 4	< 50	6	12	< 5	1.4	0.8	< 0.5	1.2	0.13	28.4
754	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	4	10	< 5	0.8	0.5	< 0.5	0.9	0.12	38.3
755	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	3	< 3	< 5	0.6	0.4	< 0.5	0.4	0.15	36.8
756	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	7	12	10	1.7	1.0	< 0.5	1.5	0.12	33.0
757 TEST PULP	< 0.05	< 0.1	< 1	< 0.5	4.6	< 4	200	6	< 3	< 5	0.7	< 0.2	< 0.5	< 0.2	< 0.05	20.0

Quality Analysis ... *Innovative Technologies*

Date Submitted: 20-Nov-07
Invoice No.: A07-5954
Invoice Date: 07-Mar-08
Your Reference: EXCAVMUS -2

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

22 Pulp samples were submitted for analysis. from A07-5143 but invoiced here

The following analytical packages were requested: Code 4LITHO (11+) Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 1E1 Aqua Regia ICP(AQUAGEO)

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Notes:
Values which exceed the upper limit should be assayed for accurate numbers.
We recommend using option 4B1 for accurate levels of the base metals Cu, Pb, Zn, Ni and Ag.
Option 4B-INAA for As, Sb, high W >100ppm, Cr >1000ppm and Sn >50ppm by Code 5D.
Values for these elements provided by Fusion ICP/MS, are order of magnitude only and are provided for general information. Mineralized samples should have the Quant option selected or request assays for values which exceed the range of option 4B1. Total includes all elements in % oxide to the left of total.

CERTIFIED BY :

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
735	< 0.2	< 0.5	102	1090	< 2	48	6	116	2.16	< 10
736	1.0	< 0.5	668	642	< 2	145	5	15	0.39	< 10
737	< 0.2	< 0.5	46	1430	< 2	32	6	52	2.10	< 10
738	1.4	< 0.5	604	3090	< 2	121	5	20	0.93	< 10
739	2.7	< 0.5	1380	5990	2	76	11	14	0.80	10
740	2.1	< 0.5	506	4030	< 2	112	5	19	0.72	< 10
741	1.4	< 0.5	1140	2110	< 2	61	< 2	22	0.85	< 10
742	1.7	< 0.5	599	5080	2	61	9	20	0.91	< 10
743	1.4	< 0.5	1430	1510	3	47	6	13	0.85	< 10
744	1.2	< 0.5	922	571	< 2	50	4	19	0.39	< 10
745	1.4	< 0.5	488	583	< 2	139	5	11	0.29	< 10
746	3.3	< 0.5	1690	2180	< 2	112	11	21	0.89	23
747	0.9	< 0.5	744	3810	< 2	50	6	57	1.13	< 10
748	2.3	< 0.5	1270	5540	2	68	9	28	1.57	10
749	2.0	< 0.5	1170	822	< 2	116	3	14	0.50	< 10
750	< 0.2	< 0.5	204	1610	< 2	35	6	90	2.96	< 10
751	1.6	< 0.5	1160	1140	3	77	9	25	0.76	< 10
752	6.3	< 0.5	932	663	2	118	4	20	0.53	< 10
753	1.7	< 0.5	887	3510	< 2	104	< 2	57	2.12	< 10
754	1.8	< 0.5	635	1510	< 2	152	2	26	0.79	< 10
755	1.1	< 0.5	326	511	< 2	163	3	13	0.32	11
756	0.8	< 0.5	354	2770	< 2	67	2	57	2.08	< 10

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Analyte Symbol	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%
Detection Limit	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
735	67	< 1	< 10	0.64	28	75	5.53	0.15	2.13	0.12
736	5	< 1	< 10	0.25	44	8	33.50	0.02	0.39	0.04
737	71	< 1	< 10	1.02	18	44	4.78	0.12	1.75	0.12
738	4	< 1	< 10	0.50	43	5	30.20	0.05	0.79	0.05
739	4	< 1	< 10	0.42	74	8	25.70	0.02	0.33	0.03
740	12	< 1	< 10	0.78	35	< 2	23.00	0.02	0.74	0.07
741	7	< 1	< 10	0.68	33	11	29.2	0.05	0.75	0.07
742	4	< 1	< 10	0.64	38	5	27.6	0.06	0.63	0.05
743	29	< 1	< 10	0.37	31	15	34.5	0.04	0.45	0.05
744	19	< 1	< 10	0.26	13	5	37.1	0.01	0.87	0.02
745	3	< 1	< 10	0.33	36	4	35.00	0.03	0.40	0.04
746	2	< 1	< 10	0.45	363	7	28.10	0.06	0.68	0.04
747	8	< 1	< 10	0.86	34	15	17.30	0.11	0.92	0.10
748	5	< 1	< 10	0.97	35	12	24.60	0.14	0.95	0.10
749	6	< 1	< 10	0.44	32	5	35.60	0.03	0.74	0.04
750	45	< 1	< 10	1.02	33	22	9.11	0.06	2.39	0.05
751	11	< 1	< 10	0.37	57	17	20.30	0.02	0.70	0.04
752	4	< 1	< 10	0.33	63	16	34.40	0.01	0.69	0.04
753	6	< 1	< 10	0.80	36	25	26.10	0.07	1.63	0.09
754	6	< 1	< 10	0.25	58	11	35.60	0.01	0.73	0.03
755	7	< 1	< 10	0.29	31	9	36.90	0.01	0.38	0.04
756	12	< 1	< 10	1.64	27	31	18.10	0.11	1.81	0.21

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Analyte Symbol	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	0.001	10	1	10	1	0.01	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
735	0.048	< 10	12	< 10	23	0.22	121	< 10	7	4
736	0.010	< 10	< 1	< 10	4	0.03	30	< 10	3	9
737	0.059	< 10	5	< 10	48	0.15	57	< 10	5	3
738	0.020	< 10	< 1	< 10	9	0.03	23	< 10	4	10
739	0.026	< 10	1	< 10	3	0.03	20	< 10	4	9
740	0.030	< 10	< 1	< 10	3	0.02	20	< 10	4	12
741	0.016	< 10	1	< 10	6	0.08	49	< 10	4	8
742	0.014	< 10	1	< 10	4	0.06	28	< 10	4	8
743	0.021	< 10	2	< 10	8	0.03	27	< 10	9	10
744	0.008	< 10	< 1	< 10	2	0.02	23	< 10	3	10
745	0.007	10	< 1	< 10	4	0.03	26	< 10	3	10
746	0.010	< 10	1	< 10	4	0.05	28	< 10	4	8
747	0.025	< 10	2	< 10	15	0.09	36	< 10	4	7
748	0.023	< 10	2	< 10	12	0.07	34	< 10	5	7
749	0.012	< 10	1	< 10	10	0.03	34	< 10	5	11
750	0.038	< 10	4	< 10	76	0.12	61	< 10	8	5
751	0.016	< 10	2	< 10	4	0.04	25	< 10	3	6
752	0.013	< 10	< 1	< 10	3	0.03	61	< 10	3	8
753	0.034	11	4	< 10	8	0.07	59	< 10	5	6
754	0.017	< 10	1	< 10	3	0.03	44	< 10	3	8
755	0.008	< 10	< 1	< 10	4	0.02	34	< 10	2	9
756	0.038	< 10	6	< 10	12	0.10	69	< 10	7	5

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Analyte Symbol	S	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O
Unit Symbol	%	%	%	%	%	%	%	%	%
Detection Limit	0.001	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01
Analysis Method	AR-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
735	0.54								
736	9.754								
737	0.164								
738	9.752	19.13	4.33	52.57	1.589	3.78	3.93	0.17	0.13
739	8.875								
740	12.22								
741	7.235	22.31	3.89	53.24	0.874	4.45	4.70	0.33	0.11
742	9.096								
743	2.042								
744	6.322	14.39	1.34	67.14	0.236	5.04	3.26	0.12	0.02
745	9.785	14.05	1.45	62.26	0.315	3.28	3.22	0.18	0.09
746	14.53								
747	7.128								
748	8.234								
749	8.301	15.17	2.40	61.27	0.359	4.31	3.90	0.12	0.08
750	0.261								
751	9.967								
752	8.896								
753	9.367								
754	9.374	13.46	2.62	62.51	0.633	2.62	2.02	0.08	0.04
755	10.45	7.92	1.56	67.44	0.235	2.05	2.10	0.22	0.06
756	6.545								

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Analyte Symbol	TiO2	P2O5	LOI	Total	Sc	Be	V	Ba	Sr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.01		0.01	1	1	5	3	2
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
735									
736									
737									
738	0.148	0.06	14.97	100.80	5	1	33	95	31
739									
740									
741	0.290	< 0.01	9.05	99.22	6	1	65	142	22
742									
743									
744	0.073	< 0.01	7.61	99.22	3	1	21	19	4
745	0.095	< 0.01	15.06	99.91	3	< 1	23	34	12
746									
747									
748									
749	0.111	0.04	12.91	100.70	6	1	41	39	31
750									
751									
752									
753									
754	0.179	0.05	15.80	100.00	5	< 1	58	22	9
755	0.089	< 0.01	17.85	99.40	2	1	37	18	18
756									

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Analyte Symbol	Y	Zr	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	4	20	1	20	10	30	1	1	5
Analysis Method	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
735										
736										
737										
738	12	25	< 20	8	< 20	30	60	12	< 1	< 5
739										
740										
741	10	33	< 20	10	< 20	80	90	17	< 1	< 5
742										
743										
744	10	21	< 20	7	< 20	80	50	5	< 1	< 5
745	7	13	< 20	5	< 20	30	50	5	< 1	< 5
746										
747										
748										
749	14	20	< 20	29	100	50	50	4	< 1	< 5
750										
751										
752										
753										
754	8	12	< 20	48	130	30	60	6	< 1	< 5
755	5	12	< 20	4	< 20	10	40	6	< 1	< 5
756										

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Analyte Symbol	Rb	Nb	Mo	Ag	In	Sn	Sb	Cs	La	Ce
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	1	2	0.5	0.2	1	0.5	0.5	0.1	0.1
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
735										
736										
737										
738	8	1	< 2	< 0.5	< 0.2	< 1	< 0.5	7	6.5	12.3
739										
740										
741	5	2	3	< 0.5	< 0.2	2	< 0.5	6.4	6.6	13.3
742										
743										
744	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.4	3.1	5.9
745	3	< 1	2	< 0.5	< 0.2	< 1	< 0.5	2.4	3.4	7.4
746										
747										
748										
749	2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	6.9	13.0
750										
751										
752										
753										
754	< 2	1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.1	4.3	9.1
755	< 2	< 1	3	< 0.5	< 0.2	2	< 0.5	< 0.5	3.7	7.2
756										

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Analyte Symbol	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.05
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
735										
736										
737										
738	1.63	6.2	1.2	0.69	1.3	0.2	1.3	0.3	1.0	0.15
739										
740										
741	1.92	7.0	1.6	0.75	1.8	0.3	1.5	0.3	1.0	0.14
742										
743										
744	0.82	3.2	0.7	0.37	1.0	0.2	1.1	0.3	0.8	0.12
745	1.06	4.1	0.9	0.51	1.0	0.2	1.0	0.2	0.7	0.11
746										
747										
748										
749	1.65	6.0	1.2	0.97	1.5	0.2	1.6	0.4	1.1	0.18
750										
751										
752										
753										
754	1.29	4.9	1.0	0.38	1.1	0.2	1.2	0.2	0.7	0.11
755	0.96	3.6	0.8	0.44	0.8	0.1	0.8	0.2	0.5	0.08
756										

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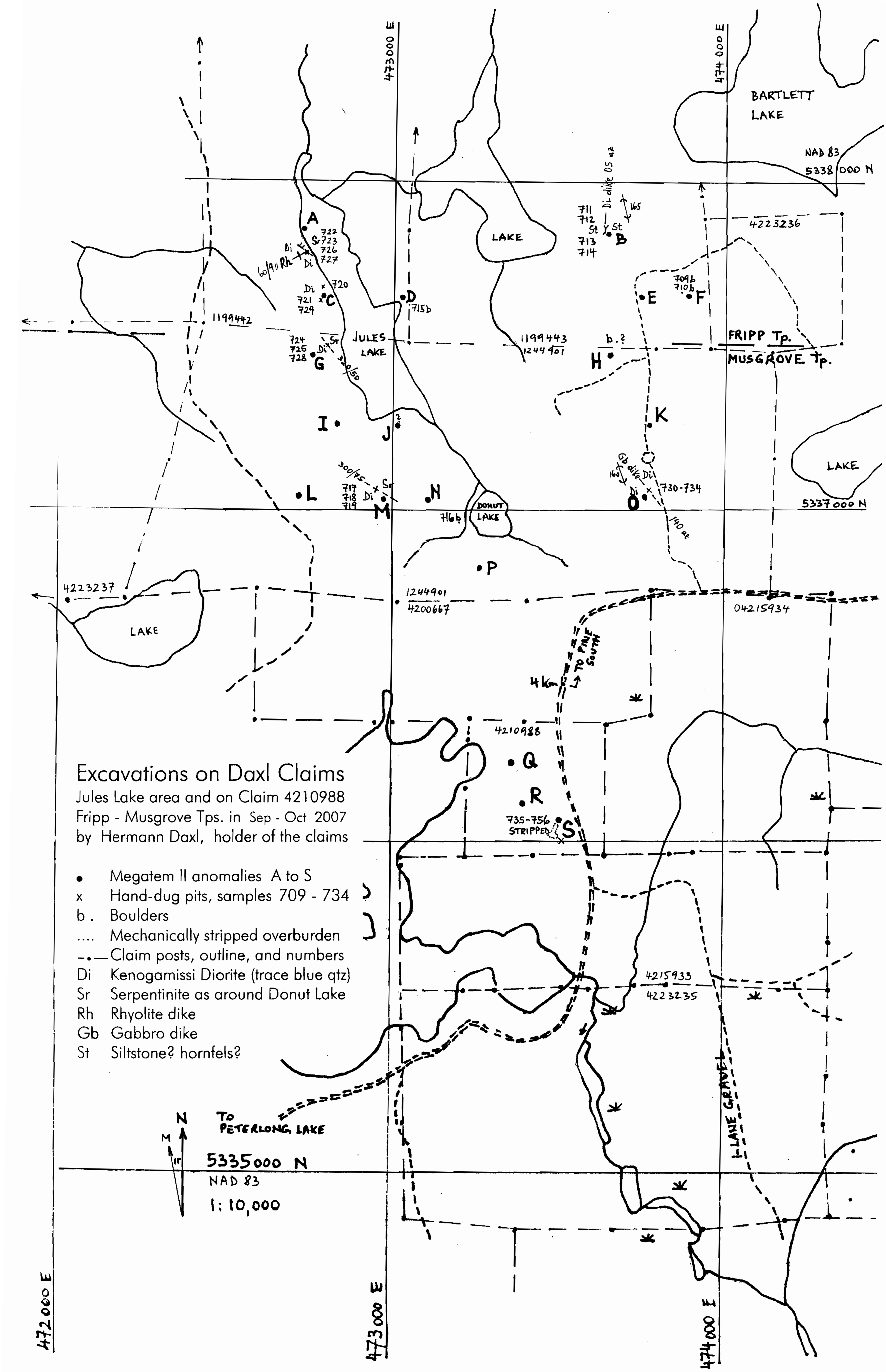
Analyte Symbol	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.04	0.2	0.1	1	0.1	5	0.4	0.1	0.1
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
735										
736										
737										
738	0.9	0.14	0.9	< 0.1	< 1	0.1	< 5	< 0.4	0.3	0.1
739										
740										
741	0.9	0.13	1.1	< 0.1	< 1	< 0.1	< 5	0.6	0.3	0.2
742										
743										
744	0.8	0.12	0.4	< 0.1	< 1	< 0.1	< 5	< 0.4	0.2	0.2
745	0.7	0.10	0.5	< 0.1	< 1	< 0.1	< 5	0.5	0.2	0.1
746										
747										
748										
749	1.1	0.17	0.7	< 0.1	< 1	< 0.1	< 5	< 0.4	0.3	0.2
750										
751										
752										
753										
754	0.7	0.10	0.7	< 0.1	< 1	< 0.1	< 5	< 0.4	0.1	0.2
755	0.5	0.08	0.3	< 0.1	< 1	< 0.1	< 5	0.6	0.2	0.2
756										


Excavations on Daxl Claims
Jules Lake area and on Claim 4210988
Fripp - Musgrove Tps. in Sep - Oct 2007
by Hermann Daxl, holder of the claims
• Megatem II anomalies A to S
x Hand-dug pits, samples 709 - 734
b . Boulders
.... Mechanically stripped overburden
-•— Claim posts, outline, and numbers
Di Kenogamissi Diorite (trace blue qtz)
Sr Serpentinite as around Donut Lake
Rh Rhyolite dike
Gb Gabbro dike
St Siltstone? hornfels?
473000 E
474000 E
472000 E
BARTLETT LAKE
NAD 83
5338000 N
5337000 N
5335000 N
NAD 83
1:10,000
LAKE
JULES LAKE
DONUT LAKE
FRIPP Tp.
MUSGROVE Tp.
4223236
1199442
1199443
1244901
4223237
4200667
04215934
4210988
4215933
4223235
TO PINE SOUTH
4 Km
TO PETERLONG LAKE
1-LANE GRAVEL
735-756 STRIPPED
Di dike 05 az
140 az
Gb dike
730-734
715b
716b
709b
710b

STRIPPED BEDROCK

Claim 4210988 - Musgrove Tp.

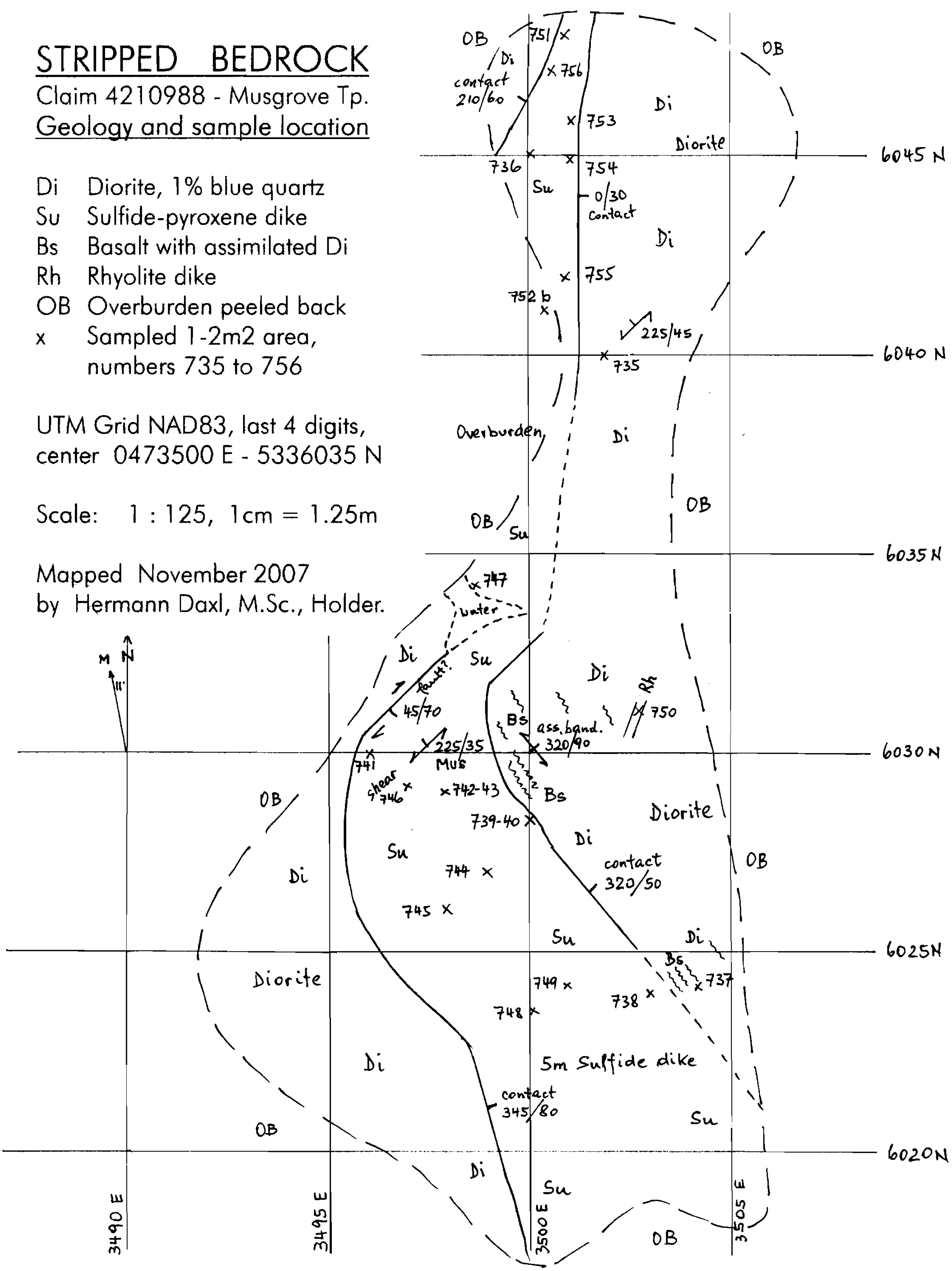
Geology and sample location

Di   Diorite, 1% blue quartz
Su   Sulfide-pyroxene dike
Bs   Basalt with assimilated Di
Rh   Rhyolite dike
OB   Overburden peeled back
x   Sampled 1-2m2 area, numbers 735 to 756

UTM Grid NAD83, last 4 digits,
center 0473500 E - 5336035 N

Scale: 1 : 125, 1cm = 1.25m

Mapped November 2007
by Hermann Daxl, M.Sc., Holder.



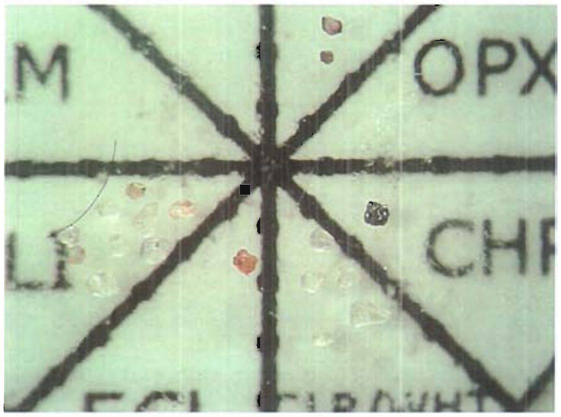
Appendix III

MUS

First Pass

Vial #9388

Final Picks



Vial #9444

TRUE NORTH MINERAL LABORATORIES

Mineral Processing Summary

February 2008

For

Hermann Daxl

Date: February 2008

C.F. MINERAL RESEARCH LIMITED

TEL (250) 860-8525
FAX (250) 862-9435

1677 POWICK ROAD
KELOWNA, BRITISH COLUMBIA
CANADA V1X 4L1

Client: True North Mineral Laboratories
475 Railway Street
Timmons, Ont. P4N 2P3

CERTIFICATE PW07HB44002344

This certificate refers to a report of **0** full electron microprobe analyses (and associated work) carried out within C.F. Mineral Research batches **07-3897(1)**. The report was completed on the **22 January 2008**.

All results apply to samples/fractions/grains as submitted and are considered to be the confidential property of the Client and supersede any preliminary report with this certificate number.

The certificate gives **Kevin Cool** (the Client representative) full access to all cited results.

Signed by: M. E. Whitehead Dr. M.E. Whitehead

Date: 13 February 2008

Access to cited results, for the above Batch Number(s), relating directly to the Client: Hermann Daxyl, is hereby transferred to Hermann Daxyl.

Signed by: Kevin Cool (Client Representative)

Date: February 25, 2008

Appendix V
Field Notations

Sample #
name: date:
project:
Location: (Nad 83, UTM, Zone 17)
Northing:
Easting:
Location: (Local grid reference)

Sampling method:
Depth:
Comments:

Sample # MUS
name: DAXL date: 15 NOV. 2007
project: Excavation Musgrove Tp.
Location: (Nad 83, UTM, Zone 17)
Northing: 5336030
Easting: 0473497
Location: (Local grid reference)

Sampling method: after mechanical excav.
Depth: 1-2 m
Comments: Clayey lodgement till, rusty, 2 cm thick on bedrock and in crevasses, of massive pyrrhotite. Under 1-2 m of sandy till on well-drained hillside

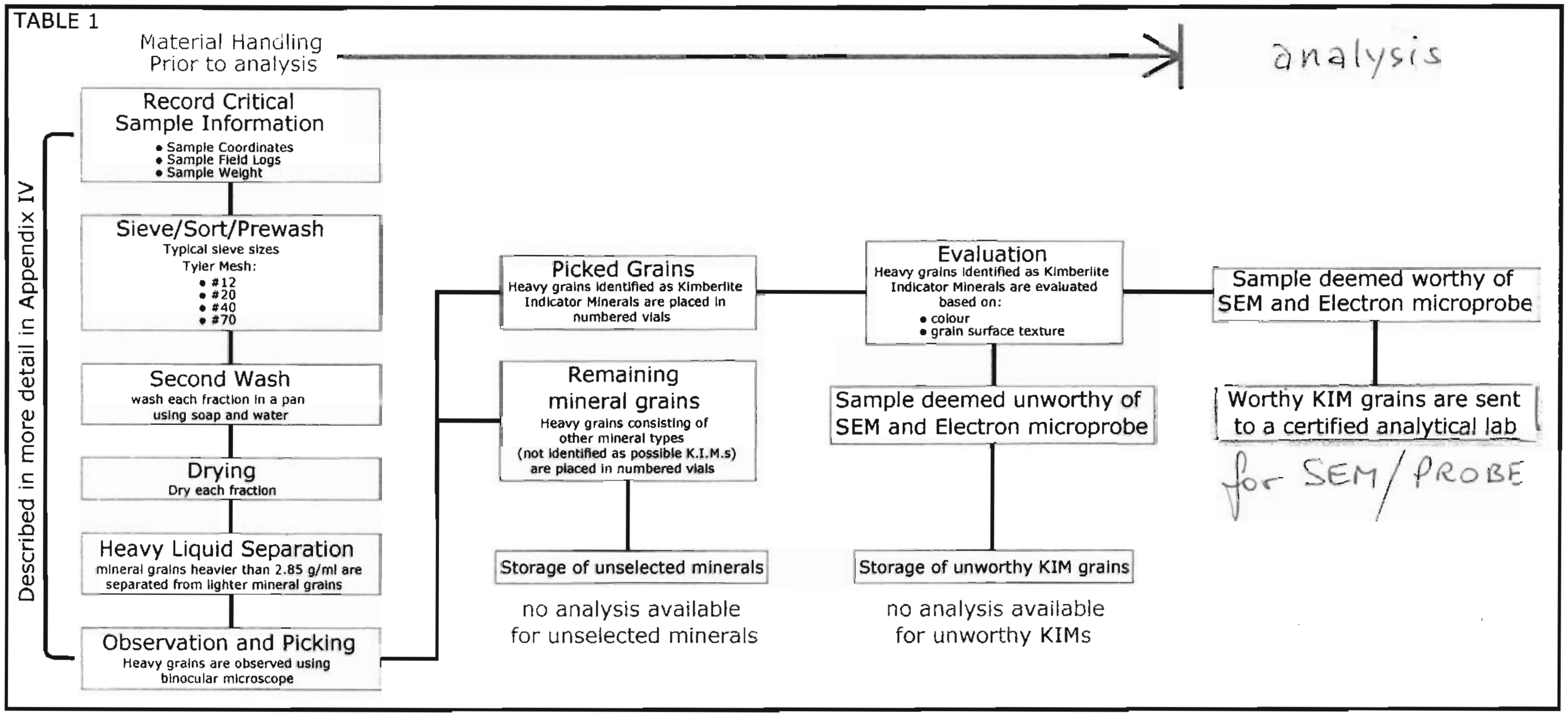
Sample #
name: date:
project:
Location: (Nad 83, UTM, Zone 17)
Northing:
Easting:
Location: (Local grid reference)

Sampling method:
Depth:
Comments:

Sample #
name: date:
project:
Location: (Nad 83, UTM, Zone 17)
Northing:
Easting:
Location: (Local grid reference)

Sampling method:
Depth:
Comments:

Material Handling Prior to Analysis



True North Mineral Laboratories Inc.

Appendix I

Project:

Client: Hermann Daxl

Sample No.	Field Weight	Selected for HMS	Total Fraction	Total Floats	Total Concentrate	Vial # **Picks**	Vial # R.N.M.	Vial # Magnetic	Vial # **Select Picks**	ActLabs Batch No.	Notes
	(g)	(tyler mesh)	(g)	(g)	(g)	**Concentrate**	**Concentrate**	**Concentrate**	**Concentrate**	**Concentrate**	
MUS	21624.61	<40>70	874.5	236.04	638.46	**9388**	9390	9389	**9444**		Till

True North Mineral Laboratories Inc.

Appendix I

Abbreviations	Meaning
Concentrate	-mineral grains with specific gravity >2.85g/ml
Floats	-mineral grains with specific gravity <2.85g/ml
(g)	-grams
HMS	-Heavy Mineral Separation
RNM	-Remaining Non-Magnetic Concentrate after picking
#12 Tyler Mesh	-1.7mm
#20 Tyler Mesh	-0.85mm
#40 Tyler Mesh	-0.43mm
#70 Tyler Mesh	-0.21mm

True North Mineral Laboratories Inc.

Appendix II

Where observed concentrates and picked grains from this program were deemed not worthy of further SEM and Microprobe analysis the microscope observations are included in the current report as well as photographs found in Appendix III.

Abbreviations	Meaning
CHR	-Chromite
CLR/WHT	-Clear/White
CPX	-Clinopyroxene
ECL	-Eclogitic garnet
GAR	- Garnet
ILM	-Ilmenite
OLI	- Olivine
OPX	- Orthopyroxene

True North Mineral Laboratories Inc.

Appendix II

Project:

Client: Hermann Daxl

Summary of Heavy Mineral Observation

Sample No.	Fraction	Vial #	GAR	ECL	CPX	ILM	CHR	OPX	OLI	CLR/WHT	Total Number	Remarks	Observer	Date
MUS	<40>70	**9444**	2	1	0	0	1	0	9	5	18	2 Possible Purples	AS	Nov 26/07

Appendix IV

Material Handling Prior to Analysis – Methods and Procedures

1. Recording Sample Information

The sample is weighed, information is taken from a field book, sample log and hand written weight logs and entered into appropriate computer spreadsheet(s). Hand written location coordinates are normally cross checked against stored GPS waypoints if available. Often, GPS waypoints are downloaded into a computer and archived at this time as further backup. An effort for completeness is made to properly document the following information prior to the start of sample processing as it is critical sample information:

- Sample location – in NAD83, UTM coordinates including zone number.
- Sample logs – type, depth (if auger), material description, observations.
- Sample weight – full sample weight as it arrived from the field.

Weighing Field Sample

Cleaning sieves

Typical sieve arrangement

2. Sieving, Sorting, Pre-wash

The sieves are thoroughly cleaned and inspected to eliminate any possibility of contamination from previous samples. The sample is washed through a stack of sieves. This process provides a preliminary wash for the mineral grains and sorts them by size. Selection of appropriate sieve mesh sizes can vary according to the type of material being sorted. Typical sieve sizes used are (Tyler mesh) #12, #20, #40 and #70.

Stated as metric equivalents:

#12 = 1.7mm
#20 = 0.85mm
#40 = 0.43mm
#70 = 0.21mm

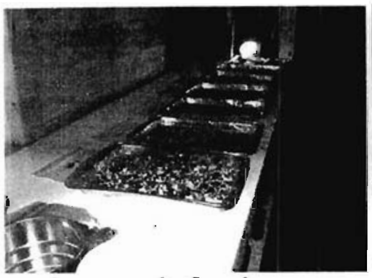
Sieve mesh sizes used for any particular sample can be found in the attached appencies that provide sample weights and mineral grain observations. Normally a lower size limit is determined and accepted beforehand. Sample material smaller than the lowest mesh size is normally washed away. In some cases all of the fine material is kept for possible microscope study, particularly in the case of an expensive sample.

3. Washing

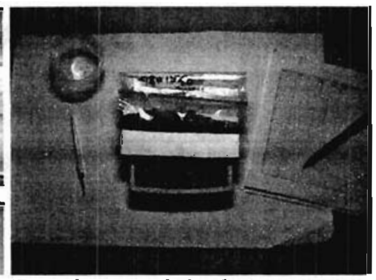
Each resulting size fraction is washed thoroughly with clean water and dish soap as it is removed from the sieves. Any organic material remaining with each fraction is floated off and washed away through repeated washing and rinsing. Washing is complete when the mineral grains are free of any organics, soap and fine silt.

4. Drying

The resulting, washed fractions are then dried. An oven can be used to speed drying time. Once dry each of the size fractions is bagged in a plastic zip-loc bag and weighed. The resulting weight is recorded in both hand written log form and on computer spreadsheet. Clear labels must accompany each fraction through all remaining procedures.


Drying sample fractions


Fractions bagged and labelled


Fractions weighed

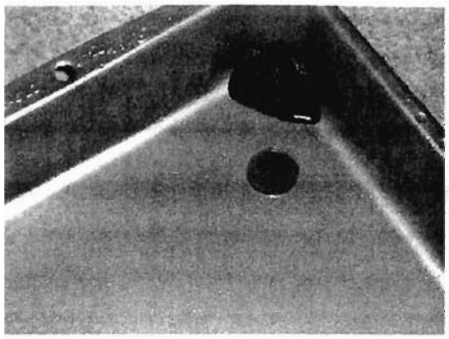
5. Heavy Liquid Separation

The resulting size fractions are looked at to determine which fraction(s) are suitable for heavy liquid separation. Larger size fractions may not contain enough mineral grains to make heavy liquid separation worthwhile. Program budget may limit the number of heavy liquid separations per sample or sample program. Smaller size fractions can provide the greatest number of heavy grains for observation in the resulting heavy mineral concentrate. However, fine grains can be more difficult to handle during microscope work. Each sample will have one ore more size fractions that are better suited for the process than the others.

The selected size fraction is run through a heavy liquid process where all grains having a density greater then 2.85 g/ml (sinks) are separated from the lighter fraction material (floats). All kimberlite indicator minerals will sink, as will many other minerals of economic interest, such as gold.

Both the sinks and floats are rinsed thoroughly in distilled water. The distilled water is saved for recycling as most of the expensive heavy liquid can be recaptured later. Both portions are then dried. An oven can be used to speed drying time. The floats are normally put in storage as the grains may warrant further study should the heavy mineral portion yield positive results. Abrasion due to grain transport for example, can help to determine transport distance. The sinks, or heavy mineral concentrate moves on to the next stage.

Separatory funnel



Typical yield of Heavy Minerals

Floats (less than 2.85 g/ml) stored

6. Observation and Picking

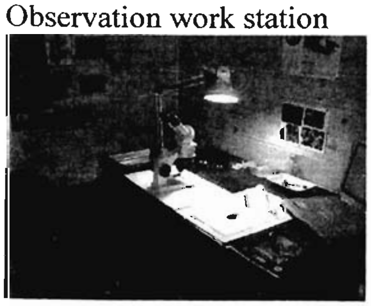
The microscope observation table and surrounding area must be thoroughly cleaned to ensure there are no grains around from past samples. A clean paper table cover is placed under the microscope to cover the surrounding table top. All grain handling is done on the table cover.

Small portions of heavy mineral concentrate are placed in plastic dishes in preparation for microscope observation. A small hand magnet is used to pull out and separate any magnetic grains from each dish. The magnetic grains are carefully placed into a separate dish for observation. This portion will be stored separately in a numbered plastic vial.

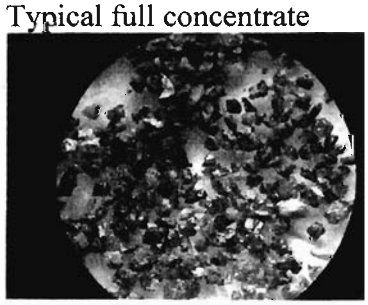
The non-magnetic portion of the heavy mineral concentrate is observed using binocular microscope and a good light source. When visually identified, kimberlite indicator minerals or any mineral grains of interest are manually picked using tweezers and placed in a numbered plastic vial. A computer log is maintained during observation where notes are linked to sample number, fraction, vial number and other basic information. When observation of each dish is complete, any remaining, unpicked grains are placed into a separate, numbered plastic vial using a small funnel. Observation notes are backed up regularly onto CD and archived. All vials are weighed on a fine scale and documented by hand written log and computer spreadsheet before storage.

Important grains or vials of picked grains that are selected for further analysis, such as SEM and microprobe are photographed through the microscope using a digital camera. Total number of grains to be sent for analysis is verified by counting them on the digital image using suitable graphics software. Normally all grains sent for SEM or microprobe analysis are returned, mounted on a slide or plug. The digital photograph, observation notes and grain count can be used at that time for basic verification and identification of analyzed grains. Copies of the digital photographs can be shipped to the analytical lab along with the selected vials of grains. This helps the receiver to confirm all grains were received and discrepancies can be noted by both parties.

Observation work station



Typical full concentrate



Grains in vials

True North Mineral Laboratories Inc.

Appendix VI

Project: EXCAVATION MUSGROVE Tp.

Client: H. DAXL

Sample locations - NAD83, UTM, Zone 17

Sample No.	Local Grid Easting	Local Grid Northing		UTM NAD83, Zone 17 Northing	UTM NAD83, Zone 17 Easting
MUS	0473497	5336030		5336030	0473497

Appendix VII

CF Microprobe

And/or

ActLabs

Analyses

Certificates and Details

Sample Number: MUS

TRUE NORTH MINERAL LABORATORIES

Sample Record

ALL WEIGHTS IN GRAMS

Rush: Yes / No

Client: H.D.

Arrival Date: NOV 16/07

Special Instructions: RUSTY - CLR PRIOR TO PICKING. Rust cleaner

Crushed Rock: [ ] 1E1 + PGE: [ ]

Till: ✓ 1H: [ ]

Date	Description	Combined	Container	Resulting	Bin #	Tech
Nov. 17/07	Field Weight -sample weight upon arrival	21685	60.39	21624.61		[illegible]
	Split Sample-Amount of sample washed	∅	—	—		
	Split Sample-sample put in storage for possible future processing	∅	—	—		
NOV 19/07	>12 - Full Fraction Weight	811.0	2.82	808.18		AMC
NOV 19/07	<12>20 - Full Fraction Weight	780.9	2.88	778.02		AMC
NOV 19/07	<20>40 - Full Fraction Weight	715.3	2.82	712.48		AMC
Nov. 18/07	<40>70 - Full Fraction Weight all to heavy liquid G=2.85, floats (26)	—	—	874.50		[illegible]
	<40 - Full Fraction Weight					
Nov 20/07	<70 - Full Fraction Weight	3810	14.65	3795.35		mm
Nov 21/07	<80 - Multi Element Analysis - Act Labs Code 1H of total fines	104	3.5	101.5		mm
	<70 - Remaining			3693.85		mm
/	<20>40 - Full Sample Weight - Deister					
	<20>40 - Deister Table Concentrate					
	<20>40 - Deister Table Tailings					
	<20>40 - Sent to HMS					
	<20>40 - Remaining for future HMS					
	<20>40 - Floats from HMS					
	<40>70 - Full Sample Weight - Deister					
	<40>70 - Deister Table Concentrate					
	<40>70 - Deister Table Tailings					
Nov. 18/07	<40>70 - Sent to HMS	—	—	874.50		[illegible]
	<40>70 - Remaining for future HMS					
Nov 20/07	<40>70 - Floats from HMS G=2.85 liquid.	238.9	2.86	236.04		mm
NOV 18/07	>7 - full fraction weight (mesh opening 2.80mm)	10085	44.04	10040.96		AMC
NOV 18/07	SAMPLE WEIGHT <7	—	—	11583.65		AMC
NOV 21/07	Heavy mineral concentrates sent for Code 3A + 3C	61.31	0.55	60.76	incl. mag.	AS
"	Remaining Heavy Mineral Concentrate	—	—	554.14		AS
" (Part of Heavy)	Non - Magnetic viewed fraction	34.27	.55	33.72		AS
"	Magnetics pulled from Heavy Mineral Conc.	9.67	.55	9.12		AS

Vial#						9388	9389	9390			
Description	<20>40 F.P.P.	<20>40 MAGS	<20<40 N-MAGS	<20>40 FP	LIM Batch # <80	<40>70 F.P.P.	<40<70 MAGS	<40<70 N-MAGS	<40>70 FP		

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted:	27-Nov-07
Invoice No.:	A07-6129
Invoice Date:	24-Dec-07
Your Reference:	

Hermann Daxl
39-630 Riverpark Road
Timmins Ontario P4P 1B4
Canada

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

1 Heavy Mineral Concentrates sample and 1 Pulp sample were submitted for analysis.

The following analytical packages were requested:

Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code 3A-Large HMC INAA(INAAGEO)
Code 3C Aqua Regia ICP(AQUAGEO)

REPORT **A07-6129**

Notes:
Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.
Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

CERTIFIED BY :

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Activation Laboratories Ltd. Report: A07-6129

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1	5
Analysis Method	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
MUS -80	24	1.2	561	1.1	2	47	58	44	0.77	3.45	20.1	360	1	5	4.6	1.89	63	75	3	1.2	20.2	4	< 1	< 5
MUS-HMC	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MUS-80 = finest of sieved full sample, < 175 μm (microns)
MUS-HMC = full heavy min. magnetics, < 40 > 70 μm, ~ 240 - 430 μm fraction.
density > 2.85 g/cm³

Activation Laboratories Ltd. Report: A07-6129

Analyte Symbol	K	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm	Sn	Tb	Yb
Unit Symbol	%	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1	0.01	0.5	0.2
Analysis Method	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
MUS -80	0.88	1.10	5440	1.03	0.040	< 15	0.8	7.3	< 3	152	< 0.5	0.18	3.5	2.3	54	< 1	18	25.1	32	25	4.0	< 0.01	< 0.5	1.8
MUS-HMC	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Activation Laboratories Ltd. Report: A07-6129

Analyte Symbol	Lu	Mass	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppm	g	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	0.05		5	5	2	200	5	1	5	10	2	0.02	1	5	50	20	0.05	200	50	0.2	0.1	20	0.2	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
MUS -80	0.26	25.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MUS-HMC	--	--	20	< 5	9	< 200	< 5	5	58	40	11	31.5	< 1	< 5	< 50	< 20	0.20	< 200	< 50	0.7	8.6	< 20	< 0.2	< 1

Activation Laboratories Ltd. Report: A07-6129

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.5	0.5	4	200	1	3	10	0.1	0.2	2	0.2	0.05		0.2	0.5	1	2	2	1	2	1	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
MUS -80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MUS-HMC	< 0.5	1.4	1500	< 200	11	11	20	1.9	0.8	< 2	1.7	0.19	28.8	1.1	< 0.5	624	2370	3	53	10	21	1.91

Microprobe

Analysis

Classifications

Customer: HB44
Probe Batch: jan (08)
Comment:

MicroProbe Analysis fro . Mineral Research Ltd.
Batch File: 07-3897

23-Jan-08 8:38am
File: prb3897T.prn

Name	Fraction	Mount	Cell	Grain	SA	CFM	DI	M	C	T(Zn)ø	*	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	MaxNa20	K2O	Total
MUS	<40>70	5831	5	301		*																						
MUS	<40>70	5831	5	302		*																						
MUS	<40>70	5831	5	303		*																						
MUS	<40>70	5831	5	304		*																						
MUS	<40>70	5831	5	305		*																						
MUS	<40>70	5831	5	306		*																						
MUS	<40>70	5831	5	307		*																						
MUS	<40>70	5831	5	308		*																						
MUS	<40>70	5831	5	309		*																						
MUS	<40>70	5831	5	310		*																						
MUS	<40>70	5831	5	311		*																						
MUS	<40>70	5831	5	401		*																						
MUS	<40>70	5831	5	402		*																						
MUS	<40>70	5831	5	403		*																						
MUS	<40>70	5831	5	404		*																						
MUS	<40>70	5831	5	405		*																						
MUS	<40>70	5831	5	406		*																						
MUS	<40>70	5831	5	407		*																						

none
deemed
worthy
of SEM

PROBE CLASSIFICATION DESCRIPTIONS

CFM-CONFIDENTIAL

MINERAL	DESCRIPTION
1 ACTN	Actinolite
2 ACTN*	Actinolite with composition characteristic of skarn or massive sulfide deposits
3 AEG-AUGT	Aegirine-Augite
4 AEGR	Aegirine
5 AKER	Akermanite
6 AL-Si	Aluminum-Silicate
7 ALBT	Albite
8 ALM	Almandine
9 ALM-Mn	Almandine with high manganese
10 ALM-Mn-Di	Almandine with high manganese with diamond inclusion composition
11 ALM-Mn*	Almandine (high manganese) with composition characteristic of skarn or massive sulfide deposits
12 AMPH	Amphibole
13 AMPH-Al	Aluminum-Amphibole
14 ANAL	Analcime
15 ANDR	Andradite
16 ANDR-Mn	Andradite with high manganese
17 ANDR-Ti-Mn	Andradite with high titanium and manganese
18 ANKR	Ankerite
19 APAT	Apatite
20 APAT*	Apatite with composition characteristic of skarn or massive sulfide deposits
21 APAT-WILK	Apatite, Wilkeite Series
22 APOP	Apophyllite
23 ARFV	Arfvedsonite
24 ARFV-K	Potassium Arfvedsonite
25 ARMA	Armalcolite
26 ASTR	Astrophyllite Series
27 AUGT	Augite
28 AUGT-Ti	Augite with high titanium
29 BADL	Baddeleyite
30 BARK	Barkevikite
31 BART	Barite

MINERAL	DESCRIPTION
32 BART-Si	Silica-Barite
33 BART-Sr	Strontium Barite
34 BARY	Barytocalcite
35 BIOT	Biotite
36 BIOT-Ti	Biotite with high titanium
37 BIOT*	Biotite with composition characteristic of skarn or massive sulfide deposits
38 BUST	Bustamite
39 CALC	Calcite
40 CANC	Cancrinite
41 CD	Chrome Diopside
42 CDRT	Cordierite
43 CE	Eclogitic Clinopyroxene
44 CE*	High pressure Clinopyroxene of eclogitic paragenesis
45 CELS	Celestite
46 CHLORT	Chlorite
47 CHLRTD	Chloritoid
48 CORO	Coronadite
49 CORU	Corundum
50 CP	Peridotitic Clinopyroxene
51 CP*	High pressure Clinopyroxene of peridotitic paragenesis
52 CP1	Clinopyroxene - Dawson's (modified by CFM) group 1
53 CP2	Clinopyroxene - Dawson's (modified by CFM) group 2
54 CP3	Clinopyroxene - Dawson's (modified by CFM) group 3
55 CP4	Clinopyroxene - Dawson's (modified by CFM) group 4
56 CP5	Clinopyroxene - Dawson's (modified by CFM) group 5
57 CP6	Clinopyroxene - Dawson's (modified by CFM) group 6
58 CP7	Clinopyroxene - Dawson's (modified by CFM) group 7
59 CP8	Clinopyroxene - Dawson's (modified by CFM) group 8
60 CP9	Clinopyroxene - Dawson's (modified by CFM) group 9
61 CP10	Clinopyroxene - Dawson's (modified by CFM) group 10
62 CPX	Clinopyroxene
63 CP DI	Clinopyroxene with diamond inclusion composition
64 CP DI$	Clinopyroxene with diamond inclusion composition which forms with large diamond

MINERAL	DESCRIPTION
65 CP DIO	Clinopyroxene with diamond inclusion composition that overlaps with compositions of Clinopyroxenes that classify from non diamond inclusion sources
66 CP DI$O	Clinopyroxene with diamond inclusion composition which forms with large diamond that overlaps with compositions of Clinopyroxenes that classify from non diamond inclusion sources
67 CP DI*	Favorable high pressure Clinopyroxene with diamond inclusion composition
68 CP DI$*	Favorable high pressure Clinopyroxene with diamond inclusion composition which forms with large diamond
69 CP DIO*	High pressure Clinopyroxene with diamond inclusion composition that overlaps with compositions of Clinopyroxenes that classify from non diamond inclusion sources
70 CP DI$O*	High pressure Clinopyroxene with diamond inclusion composition which form with large diamond that overlaps with compositions of Clinopyroxenes that classify from non diamond inclusion sources
71 CR	Chromite
72 CR-Ca	Chromite with high calcium
73 CR-Si	Chromite with high silicon
74 CR DI	Chromite with major element diamond inclusion composition
75 CR DI*	Diamond inclusion Chromite from favorable harzburgite source
76 CR Ti	Chromite with high titanium (magmatic)
77 CR M/C	Mars/Cart classification of rock type provenance of chromites
78 CR K	Classified by Mars/Cart as being from Kimberlite sources
79 CR L	Classified by Mars/Cart as being from Lamproite sources
80 CR U	Classified by Mars/Cart as being from Ultramafic sources
81 CR G	Classified by Mars/Cart as being from Greenstone sources
82 CRIC	Crichtonite
83 CUMN	Cummingtonite
84 CUMN-Na	Cummingtonite with high sodium
85 CV	Volcanic Clinopyroxene
86 DIOP	Diopside
87 DOLM	Dolomite
88 E	Eclogitic Garnet
89 ECKR	Eckermannite
90 ENST	Enstatite
91 ENST-L	Lamproitic Enstatite
92 EPID	Epidote - Clinozoisite

MINERAL	DESCRIPTION
93 EPID*	Epidote with composition characteristic of skarn or massive sulfide deposits
94 FLSP	Feldspar
95 FLSP-Ba	Feldspar with high barium
96 G 1	CFM modification after Dawson's group 1
97 G 2	CFM modification after Dawson's group 2
98 G 3	CFM modification after Dawson's group 3
99 G 4	CFM modification after Dawson's group 4
100 G 5	CFM modification after Dawson's group 5
101 G 6	CFM modification after Dawson's group 6
102 G 7	CFM modification after Dawson's group 7
103 G 8-Grosp	CFM modification after Dawson's group 8 (Grospydite)
104 G 8-GrospD	CFM modification after Dawson's group 8 (Grospydite with diamond inclusion composition)
105 G 9	CFM modification after Dawson's group 9
106 G11	CFM modification after Dawson's group 11
107 G12	CFM modification after Dawson's group 12
108 G10	Gurney group 10 Pyrope
109 G10-10*	Gurney (Best) 10 score category of G10 garnet
110 G10-9*	Gurney 9 score category of G10 garnet
111 G10-8	Gurney 8 score category of G10 garnet
112 G10-7*	Gurney 7 score category of G10 garnet
113 G10-6	Gurney 6 score category of G10 garnet
114 G10-5*	Gurney 5 score category of G10 garnet
115 G10-4	Gurney 4 score category of G10 garnet
116 G10-3*	Gurney 3 score category of G10 garnet
117 G10-2	Gurney (Least) 2 score category of G10 garnet
118 G11-1	Gurney 1 score category of G11 garnet
119 G 9-1	Gurney 1 score category of G 9 garnet
120 G10-0	Score category of G10 garnet with non diamond inclusion composition
*	Within the diamond stability region indicated by the granite-diamond constraint of H.S. Gruther and R.J. Sweeney (2000), Ext. Abstract GAC/MAC Annual Joint Meeting, CD-ROM, GeoCanada 2000
Note:	Gurney scores (after J. Lee, 1993 PDAC meeting Toronto, Ont. pg.213-234), upgraded by CFM, has been demonstrated to be related to diamond grades of source kimberlites. An average pyrope score of 5, for example, implies a grade estimate of about 7 carats/100 tonnes attributable to garnet harzburgite.

MINERAL	DESCRIPTION
121 G1*	Best group 1 eclogitic Garnet (classifies in every diamond inclusion field)
122 G1	Group 1 eclogitic Garnet (classifies mostly in diamond inclusion fields and subordinate diamond inclusion overlap fields)
123 G2	Group 2 Garnet from non diamond bearing or regional eclogite sources
124 ../..	Overlap fields; first field (before the /) is the most probable classification, second field (after the /) is the less probable yet possible classification for example, the classification G1/LPM would indicate that the grain is most probably a group 1 eclogitic garnet but may be, although less likely, a low pressure megacrystic eclogitic garnet
125 GAHN	Gahnite
126 GLAS	Glass
127 GROS	Grossular
128 GROS-ANDR	Grossular-Andradite
129 GROS-Mn	Grossular with high manganese
130 GT	general Garnet
131 GT-Mn	Garnet with high manganese
132 GT-Zr-Ti	zirconium-titanium Garnet
133 HEDN	Hedenbergite
134 HOLN	Hollandite
135 HORN	Hornblende
136 HUMI	Humite Group
137 IL	Ilmenite - regional
138 IL-Ca	Ilmenite with high calcium
139 IL-Mn	Ilmenite with high manganese
140 KAER	Kaersutite
141 KALS	Kalsilite
142 KAOL	Kaolinite
143 KNEB	Knebelite
144 KUTN	Kutnohorite
145 KYAN	Kyanite/Andalusite/Sillimanite
146 LEUC	Leucite
147 LEUC-L	Lamproitic Leucite
148 LPM	Low pressure megacrystic eclogitic garnet (usually from kimberlite sources)

MINERAL	DESCRIPTION
149 HPM	High pressure megacrystic eclogitic garnet (diamond indicator mineral from kimberlite and lamproite)
150 MAGN	Magnetite
151 MAGN-Ti	Magnetite with high titanium
152 MAGNS	Magnesite
153 MAJT-Di	Majorite with diamond inclusion composition
154 MARG	Margarite
155 MELA	Melanite
156 MELI	Melilite
157 MONT	Monticellite
158 NEPH	Nepheline
159 NEPT	Neptunite
160 NOSN	Nosean-Hauyne
161 OLV	Olivine
162 OLV-FORS	Olivine Forsterite
163 OLV-FAY	Olivine Fayalite
164 OLV-FAY*	Olivine Fayalite with composition characteristic of skarn or massive sulfide deposits
165 OLV-FAY-Mn	Olivine Fayalite with high manganese
166 OLV DI	Olivine with diamond inclusion composition
167 OLV DI$	Olivine with diamond inclusion composition which forms with large diamond
168 OLV DIO	Olivine with diamond inclusion composition that overlaps with composition of olivine from non-diamondiforous sources
169 OLV DIO$	Olivine with diamond inclusion composition which forms with large diamond that overlaps with composition of olivine from non-diamondiforous sources
170 OP1	Orthopyroxene - Dawson's (modified by CFM to classify all orthopyroxenes included in diamond) group 1
171 OP2	Orthopyroxene - Dawson's (modified by CFM to classify all orthopyroxenes included in diamond) group 2
172 OP3	Orthopyroxene - Dawson's (modified by CFM to classify all orthopyroxenes included in diamond) group 3
173 OP4	Orthopyroxene - Dawson's (modified by CFM to classify all orthopyroxenes included in diamond) group 4
174 OP5	Orthopyroxene - Dawson's (modified by CFM to classify all orthopyroxenes included in diamond) group 5
175 OPX	Orthopyroxene
176 OPX DI	Orthopyroxene with diamond inclusion composition

	MINERAL	DESCRIPTION
177	OPX-ENS	Enstatite
178	OPX-HY	Hypersthene
179	ORTHCL	Orthoclase
180	P	Peridotitic Garnet
181	PERC	Periclase
182	PERC-Fe	Periclase with high iron
183	PERV	Perovskite
184	PHLG	Phlogopite
185	PHLG-Ti	Phlogopite with high titanium
186	PIEM	Piemontite
187	PIL	Picroilmenite
188	PLAG	Plagioclase
189	PLEU	Pseudoleucite
190	PREH	Prehnite
191	PRID	Priderite
192	PSBK	Pseudobrookite
193	PSBK-Fe	Pseudobrookite with high iron
194	PYRL	Pyrolusite
195	PYROPH	Pyrophanite
196	PYROX	Pyroxmangite
197	PYRP	Pyrope
198	PYRP-Mn	Pyrope with high Manganese
199	QRTZ	Quartz
200	QRTZ-IMP	Impure Quartz
201	R	Regional Garnet
202	RHOD	Rhodonite
203	RICT	Richterite
204	RICT-K	K-Richterite
205	RIEB	Riebeckite
206	RIEB-K	Riebeckite with high potassium
207	RUTL	Rutile
208	RUTL-Nb	Rutile with high niobium
209	RUTL-Si	Rutile with high silicon
210	SALT	Salite

	MINERAL	DESCRIPTION
211	SAND	Sanidine
212	SAND-L	Lamproitic Sanidine
213	SAPH	Sapphirine
214	SERP	Serpentine
215	SHCH	Shcherbakovite
216	SIDR	Siderite
217	Si-Zr	Silica-Zircon
218	SODL	Sodalite
219	SPES	Spessartine
220	SPES*	Spessartine of Broken Hill Mine composition
221	SPHN	Sphene
222	SPNL	Spinel
223	SPNL-Si-Al	Silicon-aluminum Spinel
224	SPNL-Zn	Spinel with high zinc
225	STAU	Staurolite
226	STRN	Strontianite
227	TALC	Talc
228	TEPH	Tephroite
229	TOPZ	Topaz
230	Tour-D*	Round brown dravitic tourmaline of composition and morphology consistent with being pseudomorph after jadeitic diopside from group 1 (diamond bearing) eclogite
231	Tour-D	Round brown dravitic tourmaline from group 2 (non diamond bearing) eclogite
232	Tour-R*	Tourmaline (regional) with elevated K2O-TiO2 composition
233	Tour-R	Tourmaline with composition and morphology equivalent to regional tourmaline
234	Tourmalin	Tourmaline with no B2O3 analysis
235	TREM	Tremolite
236	UN01	Calcium-titanium Silicate (Ca-Ti Silicate)
237	UN02	Potassium-titanium-silicon Shcherbakovite like (K-Ti-Si Shcherbakovite like)
238	UN03	Manganese-titanium-silicon (Mn-Ti-Si)
239	UN04	Titanium silicate altered Sphene
240	UN05	Chromium-iron-silicon-magnesium-aluminum silicon altered chrome spinel (Ca-Fe-Si-Mg-Al silicon altered chrome spinel)
241	UN06	Siliceous Titanites
242	UN07	Calcium-magnesium-iron-silicon silicon Carbonate (Ca-Mg-Fe-Si silicon Carbonate)
243	UN08	Sodium-iron-silicon (Na-Fe-Si)

	MINERAL	DESCRIPTION
244	UN09	Silicon Corundum
245	UN10	Calcium-titanium-iron silicate altered Sphene (Ca-Ti-Fe silicate altered Sphene)
246	UN11	Iron-titanium-zirconium Silicate (Fe-Ti-Zr Silicate)
247	UN12	Tungsten-niobium-titanium-iron Oxide (W-Nb-Ti-Fe Oxide)
248	UN13	Niobium-titanium-iron-silicon (Nb-Ti-Fe-Si)
249	UN14	Iron-magnesium-aluminum-silicon (Fe-Mg-Al-Si)
250	UN16	Sodium-aluminum-silicon (Na-Al-Si)
251	UN21	Magnesium-calcium-titanium Oxide (Mg-Ca-Ti Oxide)
252	UN24	Calcium-aluminum-silicon (Ca-Al-Si)
253	UVAR	Uvarovite
254	UVAR-DI	Uvarovite with diamond inclusion composition
255	WAD	Wad
256	WADT	Wadeite
257	WILK	Wilkeite
258	WILM	Willemite
259	WOLA	Wollastonite
260	ZOIS	Zoisite