EXPLORATION GEOLOGY

AT

DONUT LAKE

IN

MUSGROVE TOWNSHIP

ON

STAKED MINING CLAIM

P 1244901

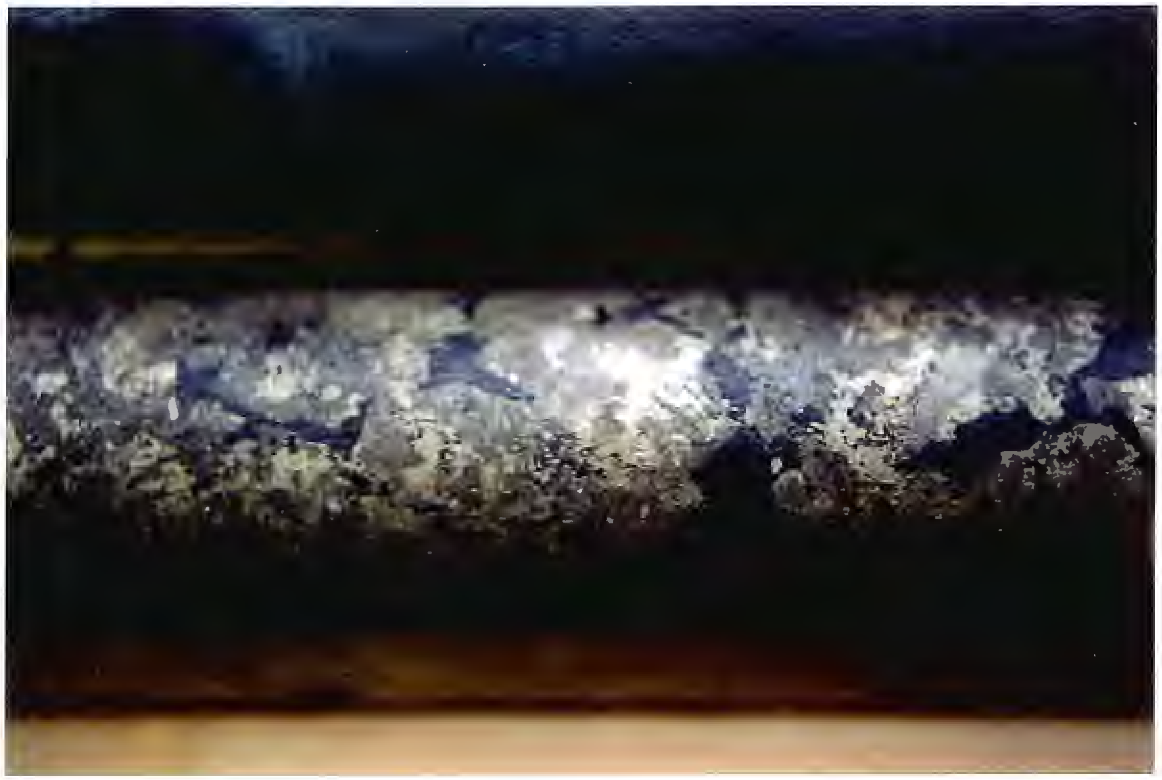
by

Hermann Daxl, M.Sc., Claim Holder

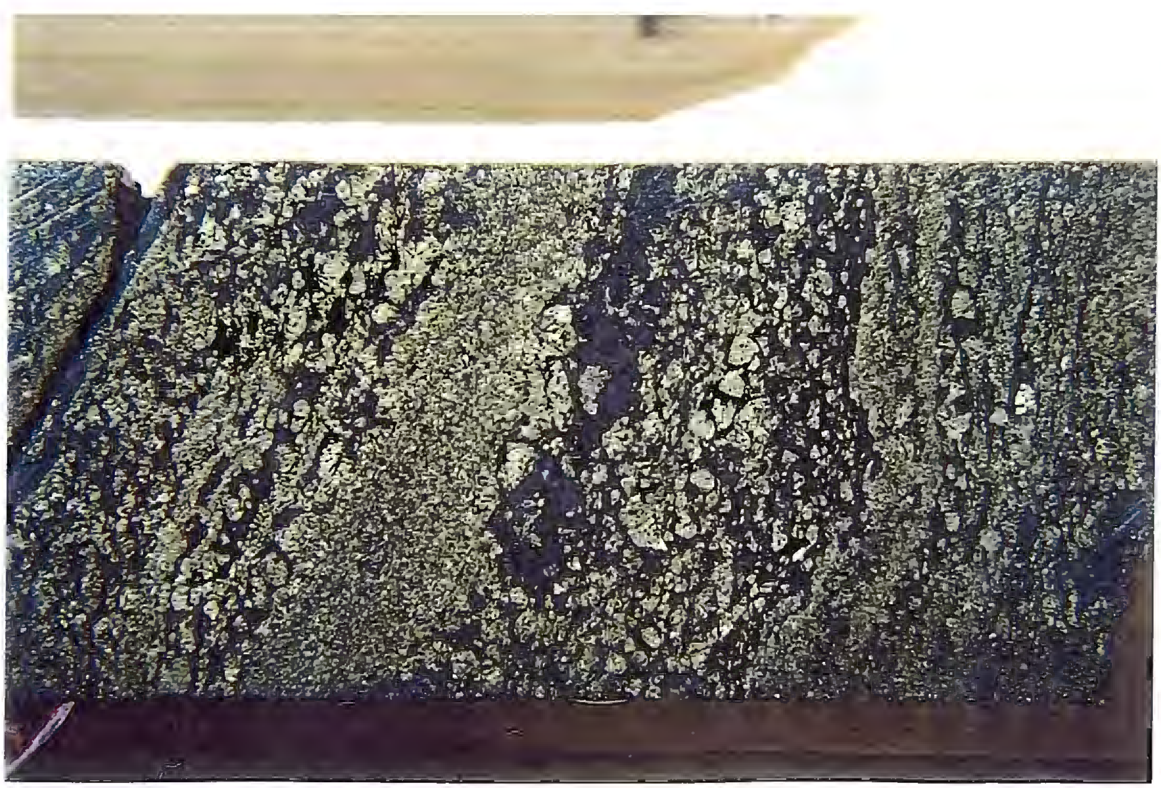
5 May 2010

Graded magmatic bed of chalcopyrite in ultramafic magma at Hollinger Copper

Serpentinite wallrock fragments in chalcopyrite slush at base of next bed just above



Settled 3-cm lumps of massive pyrrhotite-chalcopyrite in interstitial ultramafic magma



Beds of chalcopyrite crystals in now chloritized ultramafic magma at Hollinger Copper

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

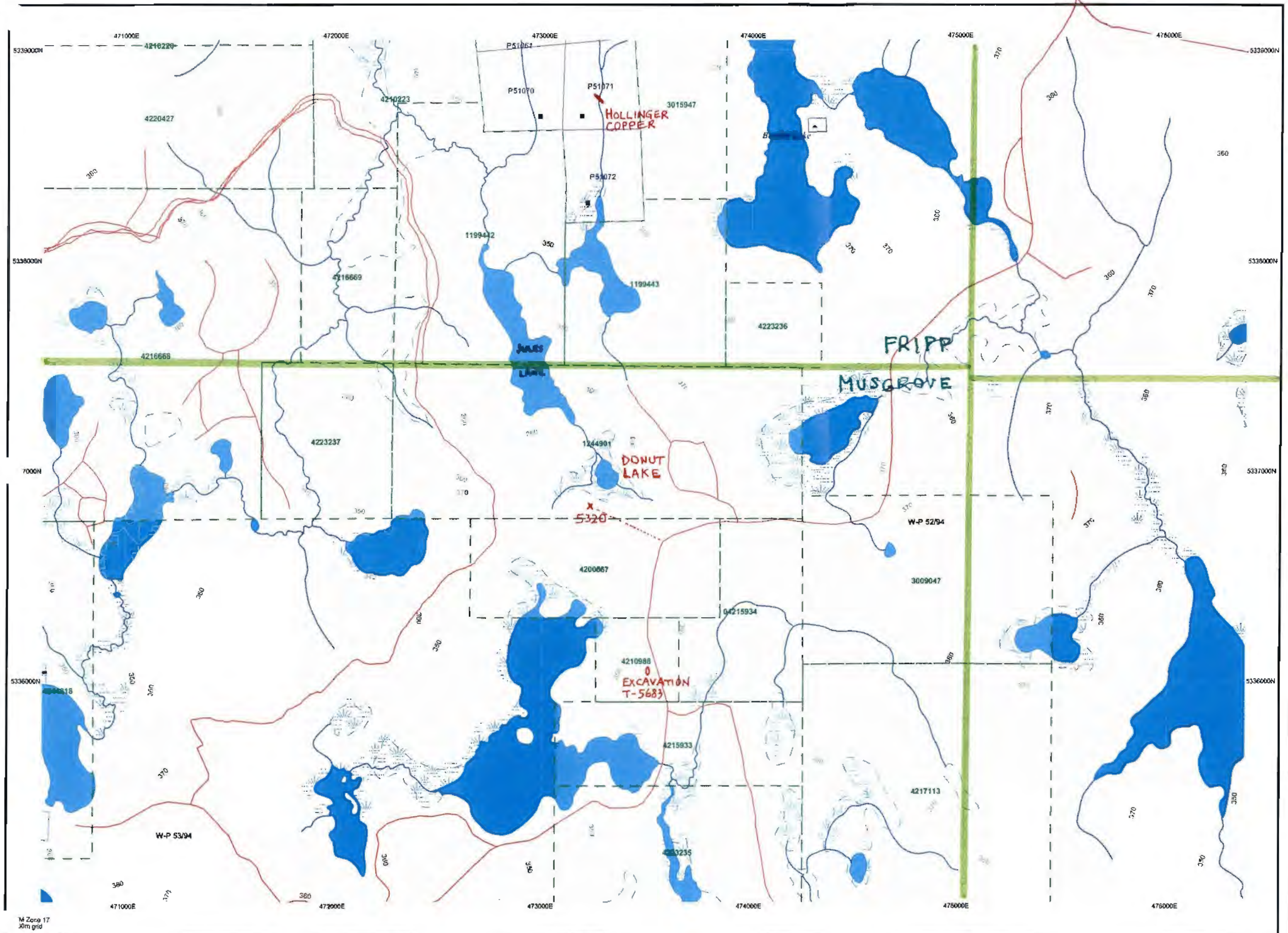
Date / Time of Issue: Wed Apr 14 14:00:44 EDT 2010

TOWNSHIP / AREA MUSGROVE

PLAN G-3962

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Porcupine
Land Titles/Registry Division	TIMISKAMING
Ministry of Natural Resources District	TIMMINS



TOPOGRAPHIC

Administrative Boundaries
Township
Concession, Lot
Provincial Park
Indian Reserve
Cliff, Pit & Pile
Contour
Mine Shafts
Mine Headframe
Railway
Road
Trail
Natural Gas Pipeline
Utilities
Tower

Land Tenure

Freehold Patent
Surface And Mining Rights
Surface Rights Only
Mining Rights Only

Leasehold Patent
Surface And Mining Rights
Surface Rights Only
Mining Rights Only

Licence of Occupation
Uses Not Specified
Surface And Mining Rights
Surface Rights Only
Mining Rights Only
Land Use Permit
Order in Council (Not open for staking)
Water Power Lease Agreement
1234567 Mining Claim
1234567 Filed Only Mining Claims

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Acts Withdrawal Types
Wsm Surface And Mining Rights Withdrawn
Ws Surface Rights Only Withdrawn
Wm Mining Rights Only Withdrawn

Order In Council Withdrawal Types
W'sm Surface And Mining Rights Withdrawn
W's Surface Rights Only Withdrawn
W'm Mining Rights Only Withdrawn

Ns IMPORTANT NOTICES

Scale 1:20000

300m 0m 900m

LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
3826	Wsm	Jan 1, 2001	RY 223 (L.U.P. - PENDING APPLICATION UNDER THE PUBLIC LANDS ACT)
Agg.Permit	Agg permit	Oct 7, 1994	AGGRAGATE PERMIT OCT. 07/94 SAND & GRAVEL
W-P 52/94	Wsm	May 2, 1994	M.R.&S.R. WITHDRAWN FROM PROSPECTING,STAKING OUT,SALE OR LEASE UNDER SEC.35 OF THE MINING ACT R.S.O.1990 ORDER NO.W-P 52/94 NER DATED 94-MAY-02
W-P 53/94	Wsm	May 2, 1994	M.R.&S.R. WITHDRAWN FROM PROSPECTING,STAKING OUT,SALE OR LEASE UNDER SEC.35 OF THE MINING ACT R.S.O.1990 ORDER NO.W-P 53/94 NER DATED 94-MAY-02
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LOCATION MAP

1:20,000

DAXL – 5 MAY 2010

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

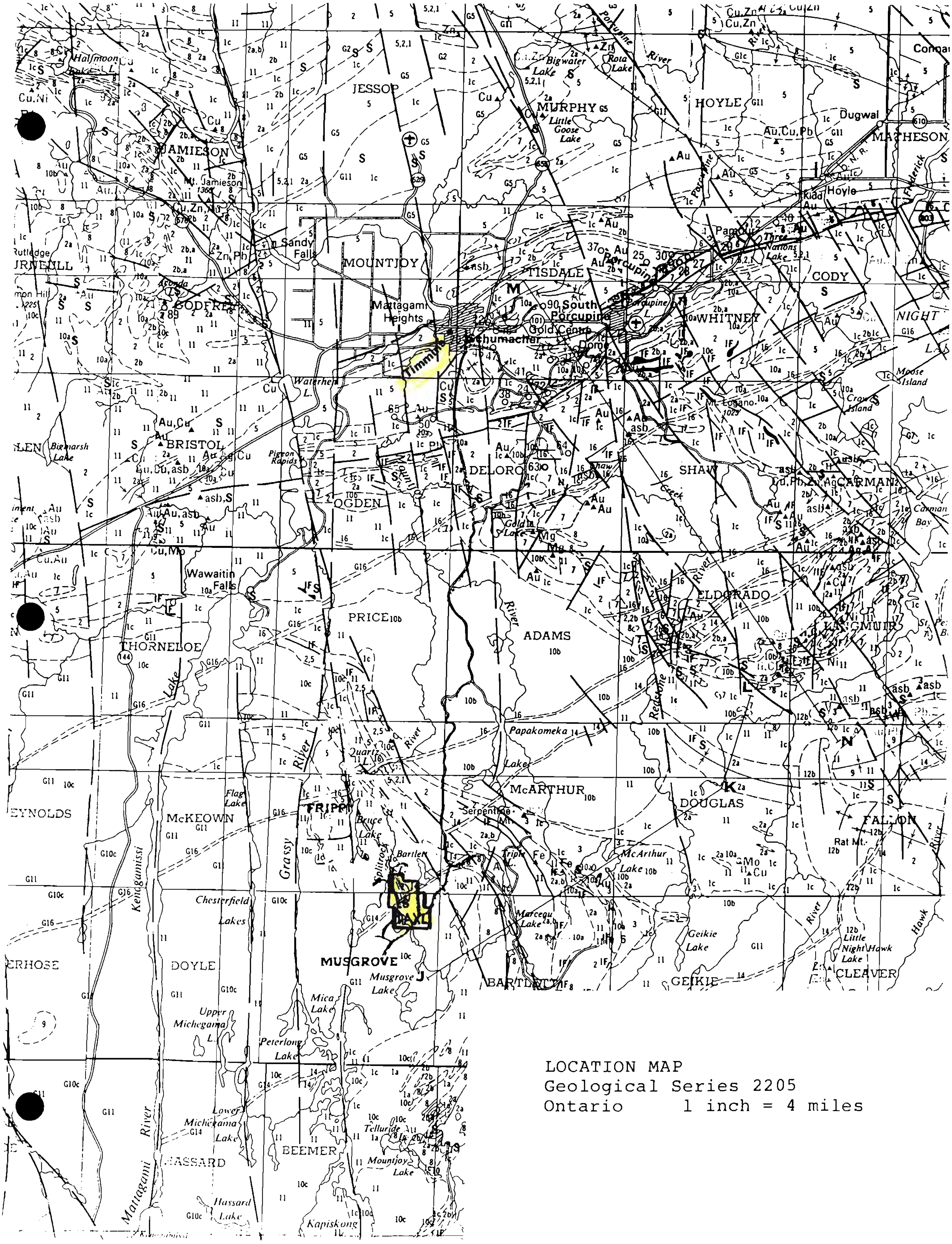
General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre 933 Ramsey Lake Road
Sudbury ON P3E 6B5
Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

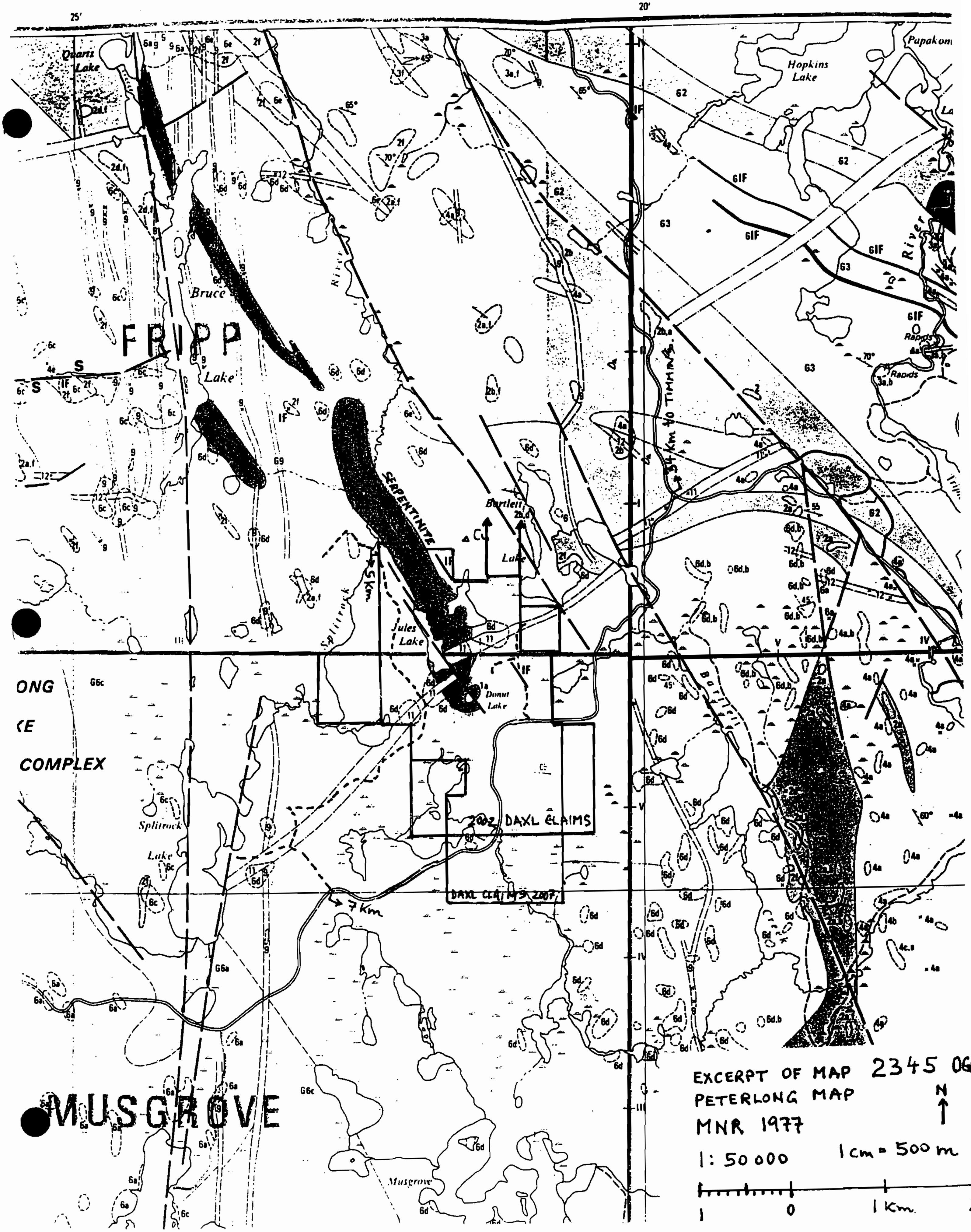
Toll Free
Tel: 1 (888) 415-9845 ext 5742
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



LOCATION MAP
Geological Series 2205
Ontario 1 inch = 4 miles


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

Introduction

The Donut Lake area is promising for exploration because of the similar geology at the nearby Hollinger Copper resource with cumulates of chalcopyrite. Exploration this time included lake bottom sampling, geophysics, soil sampling, and much stripping of Beep Mat conductors to study and sample the bedrock.

Except for MAG and MaxMin by Exsics, all field work was done by myself from 20 March to 14 October 2009 on my staked mining claim P1244901. The 39 soil and 16 rock analyses were done by Activation Laboratories Ltd.

Travel from Timmins via gravel roads is 34 km south on Pine Street South, then 3.8 km on the Peterlong Lake road to a sharp west-to-south curve from where it is 400m on a flagged trail to the strippings just south of Donut Lake.

Donut Lake lies in the eastern margin of the Peterlong Lake Complex. The serpentinite of interest, probably after peridotite or dunite, trends NNW along a regional fault through Donut Lake and Jules Lake, and widens to Sludgepot Lake just 700m south of Hollinger Copper which probably is an offshoot from there. The pyroxenite between Donut Lake and Jules Lake may be a younger intrusion, and the diabase dike crosses north of it. Mapped so-called iron formations are sulfide-rich dikes (T-5683), or roof precursers or anatexites of such serpentinite, as known from Hollinger Copper.

Previous Work

Historic work around Donut Lake was done by Sandrelli (T-492), Hollinger (T-702), and Shadrack (T-1618) who drilled Hole 1 of 551 ft (168m), 180/45, on the southern shoreline of Donut Lake from the serpentinized peridotite? intrusion into its wallrock of contact-metamorphosed diorite as outcrops up-slope. Their horizontal loop conductors coincide with their magnetic high and consist of pyrrhotite and pyrite in Hole 1 as well as in the blasted pits in two areas. The drill core rests overgrown on the shore, but the drill log (T-1618) is attached for convenience.

My IP surveys of 2003 - 2004 (T-5071 and T-5209) show the same conductors, and the Beep Mat allowed to dig up and sample more of the same (T-4800).

Of special interest is the similarity with the geology of the historic Hollinger Copper resource 2km north, where the discovery hole was aimed at a magnetic high found to be such anatexite wallrock of such serpentinite as outcrops here below the cliff showing on the south shore. Within that intrusion it intersected conduits with cumulates of chalcopyrite, or chalcopyrite-pyrrhotite, or only pyrite, an even a graded magmatic bed of chalcopyrite crystals. The attached photographs are convincing.

Possibly Hole 1 here by Shadrack should have been drilled in the opposite direction, as the serpentinite underlying Donut Lake could contain such a copper deposit, especially since this abrupt southern end could be the feeder of the main 7km long and <500m wide serpentinite trending 330 az.

Present Work

The goal of the present work was therefore to investigate whether such a copper deposit may be present under Donut Lake, and whether offshoots may occur in the wallrock. The results are inconclusive, but much has been learned about the area to benefit further exploration.

MAG and MaxMin over Donut Lake

These were done on the ice on 25 March 2009 and are described on pages 7 and 8 of the enclosed report and maps by J. C. Grant, Oct. 2009.

The total magnetic field was read on 4 lines, at 5 m stops and therefore gives some indication of shallow depth to bedrock where jagged. Although not attracting a hand magnet, the extent of the serpentinite bedrock under the lake versus the diorite on land east and north can be recognized. The extremes probably are due to the magnetic pyroxenite across the northwest.

Three lines of MaxMin were read with coil separations of 50m and 100m, with stations at 25m. Frequencies were 3555, 1777, 888, 444 Hz. The resulting out-of-phase negative with a flat in-phase at the 100m separations and 3555 Hz on the crossing three lines coincides with the open water including the surrounding 'donut' where the lake bottom vegetation sludge reaches the surface. Within the 'donut' clear water is 2m deep, then the sludge becomes gradually denser until the lake bottom of packed, clean, nonmagnetic sand about 10m below. If this sludge causes the anomaly, it must be thinner in the surrounding bays of the lake. A negative out-of-phase with a flat in-phase is usually interpreted as conductive overburden.

The Beep Mat locally noticed dense sludge of the 'donut' or swamp humus as a weak conductor reading HF<5, which is less than some conductive clay or contaminated water could be. Over the water HF read negative to -20, which is normal. Actually I have not encountered any clay in the region.

The depth extent of the sand or deeper overburden is not known. With some <10 m high cliffs around the lake and the major fault along L91E the serpentinite bedrock may lie quite deep. Possibly even the 100 m separation and 3555 Hz did not reach it, or the sludge interfered. The serpentinite contact outcrops on the south shore near the water level at the trenched cliff.

Sediment and soil sampling

On 31 March, and 11 and 19 April 2009, I sampled the Donut Lake bottom sand at 10 cm below the sludge, keeping it clean from sludge which started below 2 m of water whereas the sand started at 5 to10 m below the lake surface. The sludge gradually thickens downward. I could penetrate the sand only to 20cm, when the auger filled. I worked without a casing and therefore could not find a hole again to go deeper. The sand is medium greenish-gray, washed and packed, well-sorted about 100-300 micron, nonmagnetic, and contains <3mm pieces of white shells which explains the strong fizz by 10% HCl. Only the top of the sludge was greenish and stank (weed sample 813).

In autumn 2009 I sampled some swamp humus at lake level from 1m depth, and on higher land the enriched sand below the leached zone, or 10cm below the humus if there was no leaching.

Being vegetation, the sludge (S) and humus (H) dried to very little volume, so I sieved it to <300 micron. I sieved the dry sands to <150 micron to exclude excessive detrital content. Aliquots of 0.5 g of all were leached with aqua regia by Activation Laboratories Ltd. and analyzed for gold and 58 elements. Please refer to the attached sample lists, map, and analyses.

No significant anomalies seem to occur, however three groups can be distinguished from analyses as follows, and must be treated as separate populations:

	1. swamp humus and lake sludge	2. lake sand	3. land sand
Lithium	least	less	
Magnesium		more	
Aluminum			more
Calcium	some	much	
Vanadium			bit more
Chromium		less	
Manganese		more	
Iron	least	bit more	most
Nickel	some	least	less
Copper	bit more		
Zinc	more (at depth)		
Gallium		more	most
Strontium	some	more	
Molybdenum	trace		
Silver			trace
Cadmium	trace		
Cerium	lower		
Gold	trace		
Lead		less	
Thorium	none		

The only notable spot is at samples 803 and 818 where swamp humus returned 116 ppm Cr, 156 ppm Cu, 2.11 ppm Cs, 8.3 ppm U.

Elevated nickel seems to cluster in the southwest bay (815, 817, 918) and may come from pyroxenite-pyrrhotite dikes, or barren pyroxenite (0.11% Ni in 5252, T-5850).

Copper is also somewhat high in these 815 and 817, close to the conductor, but also in 803. Samples 5314 and 5315 from the west-pit contain 0.19 and 0.32 % Cu.

Also in 817, La, Ce, Pr, Nd, Sm, are somewhat higher.

Higher chromium with cobalt (918, 919, 920) is attributed to the pyroxenite or serpentinite. The serpentinite content in sand 920 was noticed when sampling, probably close to the contact.

Since despite the showing of iron sulfides on the south shore, no iron anomaly is recognized in the lake samples, whether humus, sludge, or bottom sand, one may doubt whether these are the right medium to sample for metals. However, the background is probably too high for iron, whereas it is very low for other elements. But the depth of the bedrock in the lake and the flushing by swamp water may hinder. Also the calcite in the lake sand may neutralize any rising acid fluids and precipitate metals further below the sand top. Therefore I consider this survey inconclusive.

Beep Mat BM4+ and bedrock sampling

With the Beep Mat 4+ I scanned the entire hill over 100 m south of the lake and located a new Beep Mat conductor across the hill top <60 m south of the steep lakeshore. The spotty zone trending 312 az. widens northward and merges with the one near the shore. Despite the thin overburden I could expose and sample only sparse sulfides and thin pyroxenite-pyrrhotite dikelets, but one is >50cm thick (5311) at the shore to the swamp, about 10m west of the west pit where I found and sampled similar blasted rock (5316). The dike seems to continue to 314/90? in the swamp as per one response of the Beep Mat.

I also scanned the lake on the ice and in September 2009 the entire swamp around it including both peninsulas and the lower slope near the northeast shore at 10 - 25 m but found no further conductor, except local readings (plotted as B=beeps) of HF<5 of the sludge 'donut' and swamp humus, which are not as conductive as some clay could be. The water showed the normal negatives to HF -20 and therefore is not conductive like salt water along roads or other electrolites would be. I found no difference near the south-shore that would show any influx from the showing or the pit there.

After fine-crushing the chip samples, about 800 g were pulverized by Cattarello Assayer's Inc. and analyzed by Activation Laboratories Ltd. for gold, platinum, palladium by 30 g fire assays, and 35 elements by near-total digestion. Please refer to the attached sample location map, sample descriptions, as well as analyses.

Only copper and possibly silver, which also are the only two metals of importance in the Hollinger Copper resource, were found to be anomalous, especially 0.19 % Cu in sample 5314, and 0.32 % Cu versus 12.7 % Fe and 7.87 % S in sample 5315. Copper values < 0.10 % also occur at the strippings southeast (5317 to 5323), in anatexite gneiss after diorite as per Na values.

The 0.04 % nickel versus 28.8 % Fe and 11.1 % S in sample 5316, and similarly in 5311, both of the pyroxenite-pyrrhotite dike, can hardly be called anomalous.

The 0.07 % cobalt in sample 5326 as a pocket of pyrite is not considered significant, nor is the relatively elevated vanadium in 5320 and surrounding samples.

Metallogeny

Occurring in the wallrock, these sparse metals could have deposited from hyrdrothermal precursers of the now serpentinized Donut Lake intrusion. Anatexis would have followed the hydrothermal channels, and so would later have the pyroxenite-pyrrhotite dike (5311, 5316) which may be deuteric from the magnetic pyroxenite adjacent northwest of Donut Lake that causes the magnetic highs.

Such copper-bearing anatexite occurs above the Hollinger Copper serpentinized peridotite where in addition ultramafic conduits containing graded magmatic beds of chalcopyrite exist within the otherwise barren serpentinite. That serpentinite is only 20m thick, and probably is an offshoot from this main unit. No such conduits have been found here and would not really be expected to have crossed into the partially molten wallrock anatexite. However, the attached photographs are quite convincing that further such cumulates should exist. The attached 'Geology and chip sample descriptions' provide more detail.

Conclusions and recommendations

Accordingly, the diorite anatexite here could be the roof rock over a feeder which would plunge steeply south as also is supported by the acute core angles in Hole 1. The major NNW trending serpentinite as well as the one at Hollinger Copper could both have come from here.

The fact that rich chalcopyrite cumulates exist there and logically would exist in the feeder, should not be discarded when exploration methods may have failed. The Hollinger Copper under only 10m of swamp was not recognized by several airborne surveys, and elsewhere deep airborne conductors were not found in drilling. Considering also that most conductors drilled are of no value, it is not more risky to drill the promising geology here.

I recommend a 500m diamond drill hole, 35/50, at NAD 83 - 17 U 473170 E - 5336825 N. It would reach 160m vertically at the center of Donut Lake and possibly would reach the northeastern contact. Once the plunge of the serpentinite is established, a much steeper hole could probe much deeper from the same set-up.

The attached geology and sample descriptions 5311 - 5326 are part of this report.

Respectfully submitted,

Timmins, 5 May 2010

by Hermann Daxl, M.Sc.
Claim Holder

Geology and chip sample descriptions - Donut Lake

The present sampling resulted from a 100 m wide Beep Mat scan 5 to 25 m apart, not merely as a pursuit of the non-magnetic pyroxenite-pyrrhotite dike direction on which the samples fall. Apparently the pyroxenite from between Jules-Donut Lake (barren sample 5252 of T-5850, 0 S, 8% Fe, 14.1% Mg, 1120 ppm Ni, only 10 ppm Cu) reaches to the newly dug pit at 5312 and 5313 where however it is nonmagnetic. The nonmagnetic pyroxenite-pyrrhotite dike 5311 and 5316 may be a deuteric offshoot from it. The gneiss sampled along it southeastward from 5314 is likely the regional diorite with its <1% blue quartz, metamorphosed or melted to an anatexite gneiss by the now serpentinized Donut Lake peridotite. The copper and silver, especially in 5314 and 5315, could be hydrothermal precursers of this peridotite, as according to the chalcopyrite-rich conduits at Hollinger Copper the original magma must have been rich in copper. Any such late conduits within this peridotite as the similiarity with the Hollinger Copper may suggest, would not be expected to have traversed into the wallrock anatexite, and none were found here.

The 1-2 kg chip samples were fine-crushed and about 800 g pulverized for analyses. All were analyzed for AuPtPd by 30g fire-assay and 35 elements by 'near-total' digestion. No platinum nor palladium was found, nor rhodium in 5311 and 5316, nor iridium in 5311. Gold in 5311, 5312, 5315 was 11, 15, 20 ppb respectively, and nil in others. Other significant values are stated under each sample, and the lab results are attached. None of the samples was radioactive.

Sample	Location NAD83 17U	SFeMgAlCaNaK in % Others in ppm
5311	473120 E - 5336913N	(see also 5312, 5313)

Newly discovered Beep Mat BM4+ anomaly at edge of swamp. Dug 1 x 2 x 0.50m pit.

30% fine nonmagnetic pyrrhotite, quite rusted, good conductor where fresh.
1% chalcopyrite as 1x2cm coarse-grained pockets or interstices.

Fine-grained olive-gray pyroxenite-pyrrhotite dike >50cm thick, massive, southwest of its sharp contact 134/90? Mohs' hardness H=5-6, nonmagnetic, no fizz, good conductor where fresh. Probably the same dike as 5316.
13.5 S, 26 Fe, 3.2 Mg, 366 Ni, 449 Cu, 850 Cr (INNA), 152 Sr.

5312 at 5311 (see also 5311, 5313)

5% pyrite cubes <5mm as <2cm inclusions? with quartz-plagioclase and <5mm light olive-yellow grains of H=2; also as <3mm veins of pyrite cubes, here a good conductor. Locally also <5% disseminated or as very fine-grained patches. Good conductor from grain to grain even if do not seem connected.
3% rusty crusts.

Fine olive-gray pyroxenite wallrock northeast of dike 5311. H=5-6, nonmagnetic, no fizz.
7.8 S, 9.7 Fe, 11.5 Mg, 137 Ni, 224 Cu.

5313 at 5311 (see also 5311, 5212)

1% pyrite <1mm, locally <5%, often cubic, disseminated, moderately conductive from grain to grain.
5% rusty crusts.

Similar but more barren than 5312 as it is further from contact and without pyrite pockets. Massive, nonmagnetic, no fizz.
7.1 S, 8.7 Fe, 11.5 Mg, 3.1 Al, 4.6 Ca, 0.15 Na, 155 Ni, 224 Cu, 1260 Cr, 7 Sr.

5314 473130 E - 5336915N (see also 5315, 5316)

From historic West-pit.

<1% pyrite, mostly finely disseminated.
3 % chalcopyrite-magnetic pyrrhotite veinlets? One <1cm chalcopyrite vein with sharp contact. Moderately magnetic, moderately conductive from grain to grain.

Granodiorite, blue quartz schlieren, wallrock anatexite caused by the Donut Lake intrusion. Locally quartz-plagioclase-muscovite gneiss. H=5-6. Else nonmagnetic, no fizz.
3.3 S, 5.9 Fe, 1.3 Mg, 2.7 Ca, 3.2 Na, 1.22 K, 77 Ni, 1860 Cu, 3.2 g/t Ag.

5315 at 5314 (see also 5314, 5316)

10% Pyrite-weakly magnetic pyrrhotite infiltration and veinlets.

Else like 5314. Small 1kg sample.
7.9 S, 12.7 Fe, 148 Ni, 3180 Cu, 20 ppb Au, 6.1 g/t Ag.

5316 at 5314 (see also 5314, 5315)

30% nonmagnetic pyrrhotite (no chalcopyrite here).

Pyroxenite-pyrrhotite dike, fine-grained, H=5-6, dike with sharp contact, locally weakly magnetic, no fizz, weakly conductive from grain to grain. Likely the same dike as 5311.
15 % wallrock gneiss like 5314 with plagioclase-biotite pockets.
11.1 S, 28.8 Fe, 0.7 Mg, 412 Ni, 614 Cu.

5317 473220 E - 5336835N (see also 5318, 5319)

Near center of newly discovered Beep Mat BM4+ conductor over 35 m, hand-stripped in 3 places. Here beeps 2200HFR 800 LFR 37% on rock, indicating about 37% fresh sulfides near surface, but which are not exposed.

! % pyrite as fine disseminations, <2mm veinlet of cubes, and pockets.
3 % rusty crusts.

Fine-grained quartz-plagioclase-hornblende gneiss. H=7, nonmagnetic, no fizz.
At center of stripping. The sparse blue quartz suggests this is regional diorite with its sparse blue quartz, metamorphosed by the Donut Lake intrusion.
1.3 S, 5.0 Fe, 33 Ni, 304 Cu, 124 V.

5318 at 5317 (see also 5317, 5319)

5 % fine pyrrhotite-pyrite as disseminations and few 1mm veinlets of magnetic pyrrhotite, good conductor.
3 % rusty crusts.

Gneiss similar to 5317 but with magnetic pyrrhotite infiltration.
4.9 S, 9.0 Fe, 101 Ni, 480 Cu, 131 V.

5319 at 5317 (see also 5317, 5318)

7 % pyrrhotite-pyrite.
10 % rusty crust.

Gneiss similar to 5318.
3.1 S, 9.7 Fe, 67 Ni, 823 Cu.

5320 473215 E - 5336830N

2 x 2m stripping at northwest end of same 4 x 12 m Beep Mat conductor trending 130 az. Beeps HFR2700, LFR1400, 52%.

1 % pyrite-pyrrhotite
4 % rusty crusts

Sharp fine-grained pyrite-pyrrhotite-bearing pyroxenite dikelets interfingering with blue-quartz-plagioclase gneiss. Nonmagnetic, no fizz.
2.9 S, 7.6 Fe, 71Ni, 527 Cu, 410 V.

5321 473226 E - 5336835 N (northeast side, see also 5322, 5323)

Same conductor after 6m offset southward, stripped at 1m high shoulder, detected with Beep Mat HFR 220, LFR 50 23%, continues 3 x 10m towards 116 az., and then 1 x 2m at 473245 E - 5336800 N which is 6m northwest of picket L84 - 8900 E, where not stripped but beeps HFR60 LFR30 60%. The country rock is medium-grained diorite with sparse blue quartz grains typical of the region.

5 % pyrite
35 % rusty crust

Similar to 5320 but more mafic. Wallrock near sharp contact to 5322.
Nonmagnetic, no fizz.
3.3S, 10.8 Fe, 78 Ni, 816 Cu, 172 V.

5322 at 5321 (west side, see also 5321, 5323)

20 % rusty crusts only.

Fine-grained medium-gray diorite dike? with hornblende? sparse blue quartz, quite massive with flow-banding in dike, weathers to salt and pepper sandy.
Possibly offshoot from molten anatexite. H=5, nonmagnetic, no fizz.
2.5 S, 8.2 Fe, 60 Ni, 985 Cu, 198 V.

5323 at 5321 (southwest side, see also 5321, 5322)

15 % yellow-brown weathering crusts, but was also covered with overburden at base of shoulder. Trace <4mm pyrite.

Quartz-plagioclase gneiss with blue quartz, muscovite, and dark-gray medium-grained pyroxene, all as schlieren or pockets.
Nonmagnetic, no fizz. Vuggy weathering probably due to sulfides weathering out.
0.9 S, 2.9 Fe, 38 Ni, 566 Cu, 62 V.

5324 473154 E - 5336880 N = L8497N - 8890 E (see also 5325, 5326)

New Beep Mat conductor of HFR2700 LFR1700 60% found and 2 x 3m stripped just east from summit.

10 % magnetic pyrrhotite, trace pyrite-chalcopyrite.
15 % rusty crusts

Pyroxenite-pyrrhotite as abrupt dike ? at base of sloping face, medium-grained black pyroxene. Moderately magnetic but 5311 and 5316 are not. No fizz, good conductor.
6.9 S, 14.0 Fe, 82 Ni, 177 Cu.

5325 at 5324 (see also 5324, 5326)

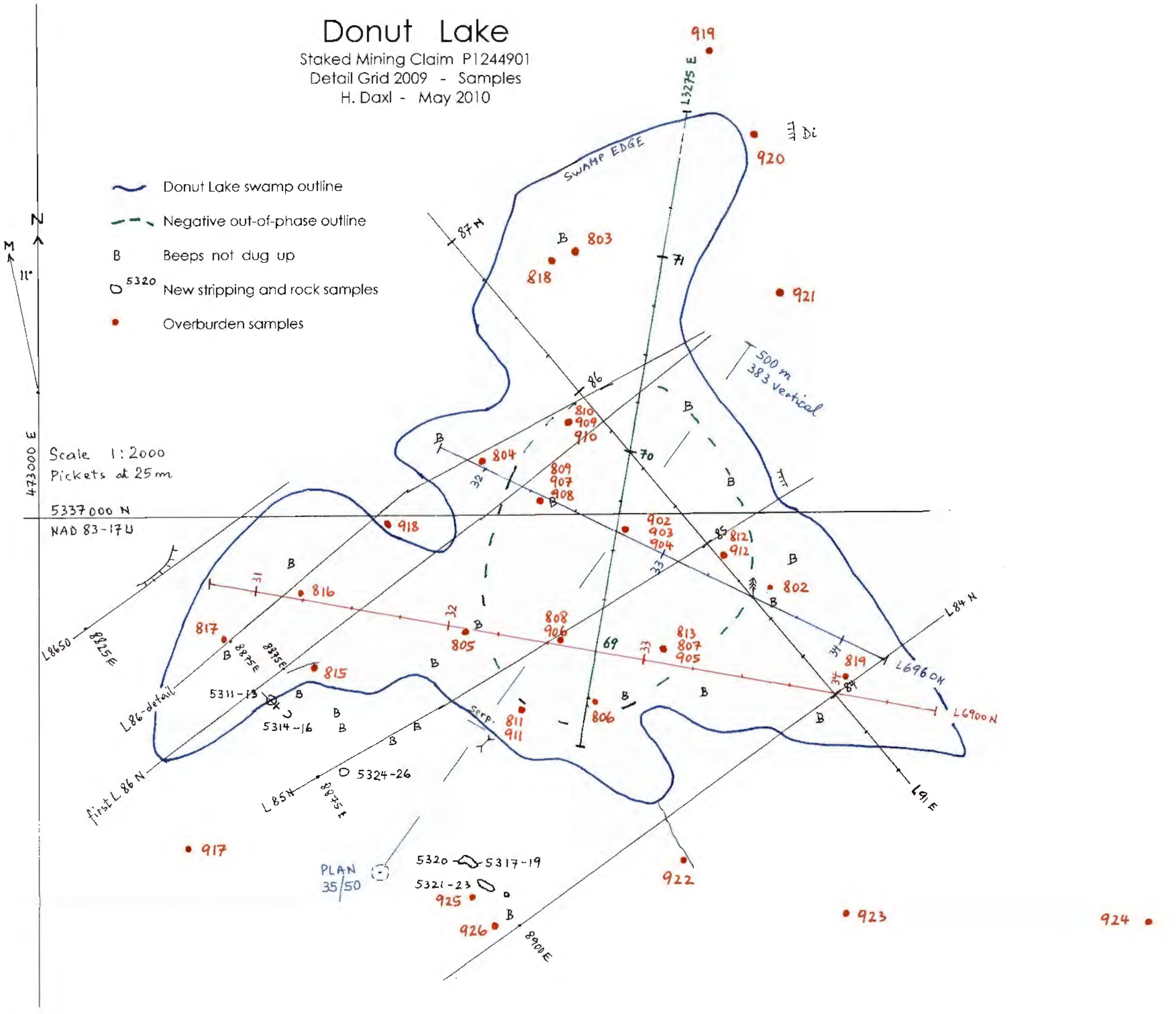
15 % rusty crusts.
2 % magnetic pyrrhotite.
1 % pyrite as groupings of <2mm cubes in vuggy pockets.

Quartz-plagioclase-hornblende gneiss with moderately magnetic black pyroxenite-pyrrhotite dikelets. Vuggy weathering probably due to sulfides.
Moderately magnetic, no fizz.
0.9 S, 7.3 Fe, 26 Ni, 53 Cu.

5326 at 5324 (see also 5324, 5325)

10 % pyrite as <7mm cubes and aggregates.
1 % magnetic grains.
Else brown rusty sand.

One 10cm pocket in gneiss, deeply weathered to brown sand, pyrite is fresh.
Nonmagnetic, no fizz. Small 0.5 kg sample.
>20 S, 28.5 Fe, 24 Ni, 68 Cu, 671 Co, 17 As.


Donut Lake
Staked Mining Claim P1244901
Detail Grid 2009 - Samples
H. Daxl - May 2010
Donut Lake swamp outline
Negative out-of-phase outline
B Beeps not dug up
5320 New stripping and rock samples
Overburden samples
Scale 1:2000
Pickets at 25 m
5337000 N
NAD 83-17U
473000 E
SWAMP EDGE
L3275 E
500 m
383 Vertical
L84 N
L6960N
L6900N
L91 E
L85N
first L86 N
L86-detail
L8650
8825E
8875E
8900E
PLAN
35/50
5311-13
5314-16
5324-26
5320
5317-19
5321-23
919
920
921
803
818
810
909
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804
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918
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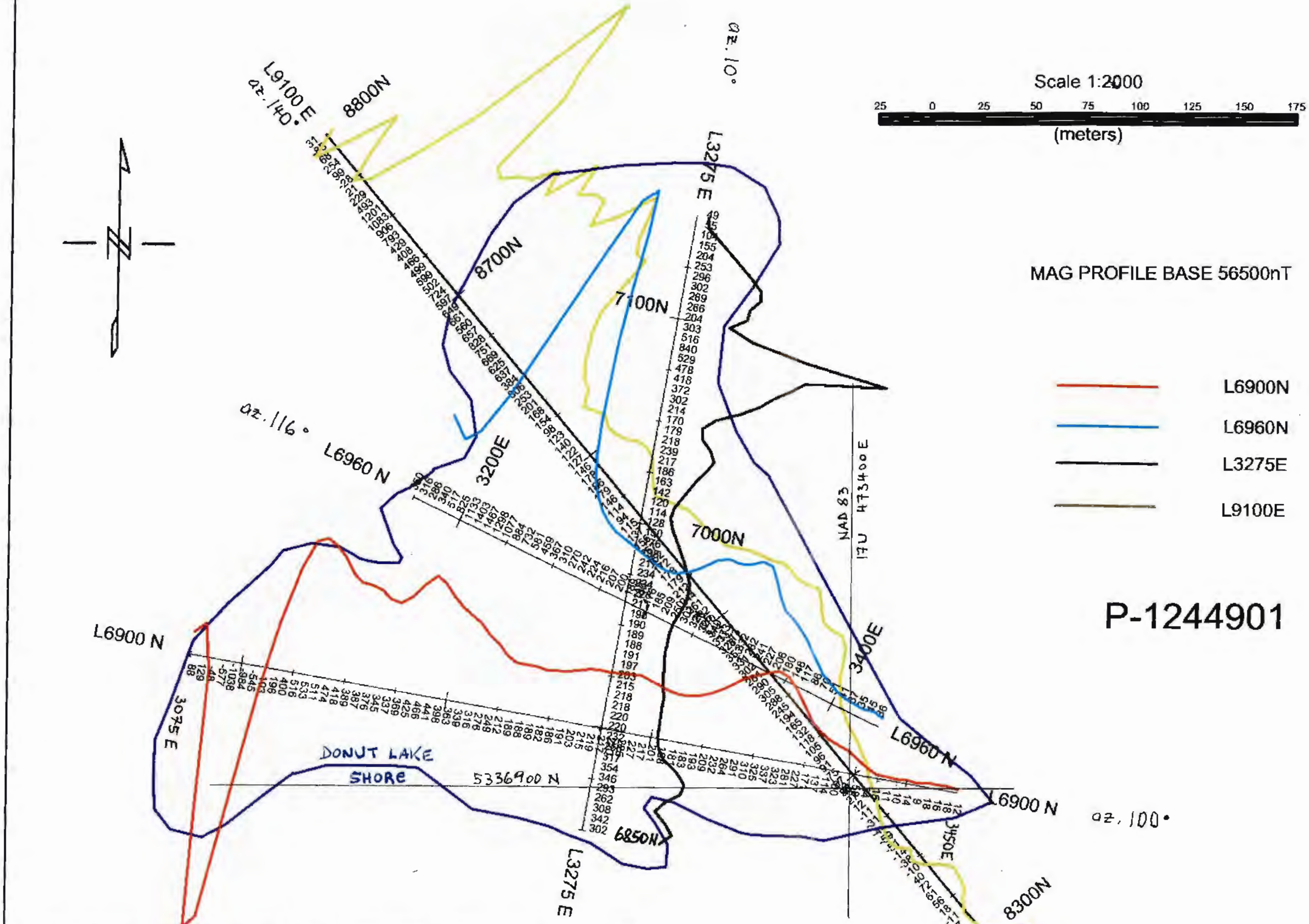
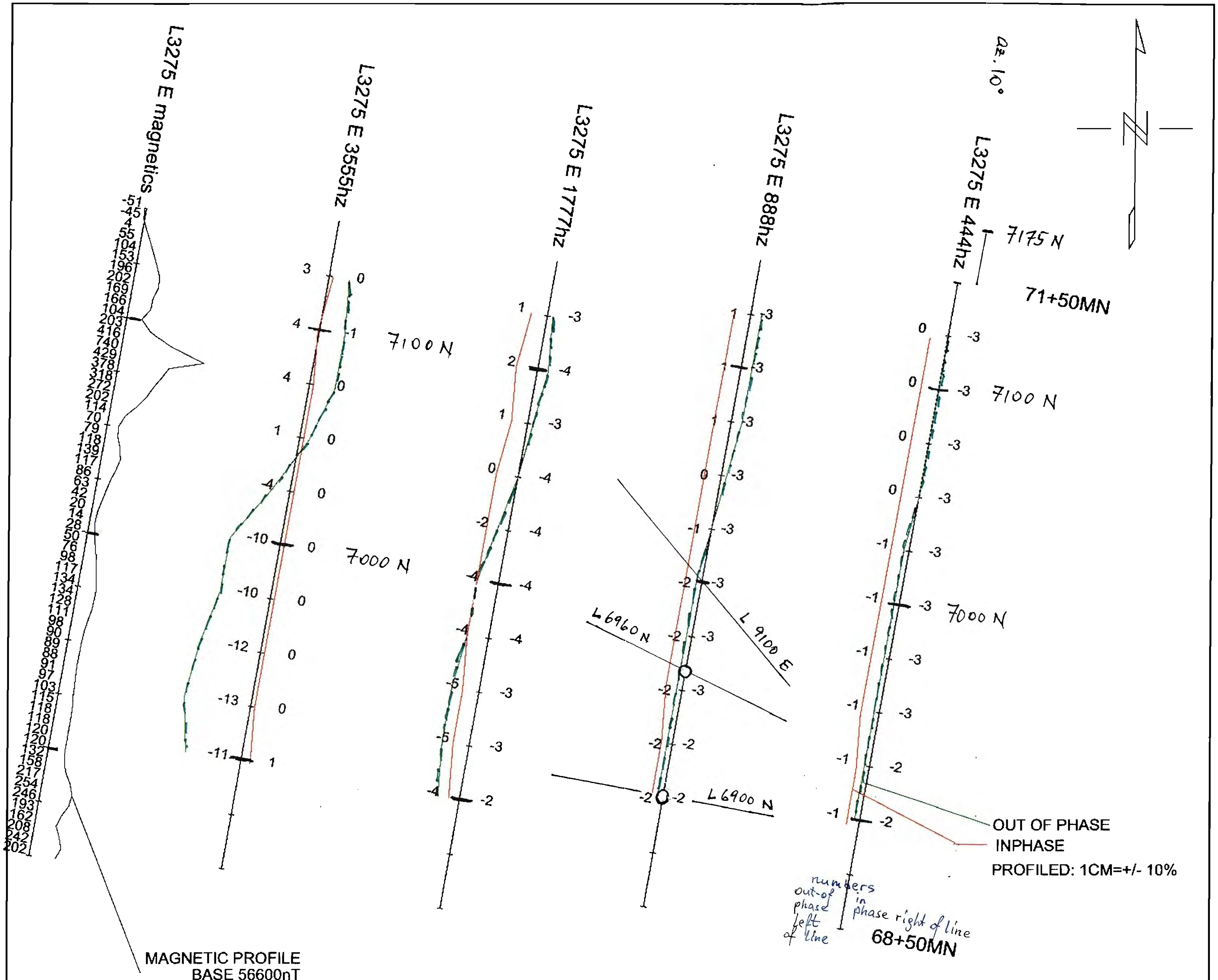


HERMAN DAXL

DONUT LAKE GRID/ 2009
MUSGROVE TOWNSHIP

TOTAL FIELD MAGNETIC SURVEY

MARCH/2009 EXSICS EXPLORATION LIMITED



Scale 1:2000

25 0 25 50 75

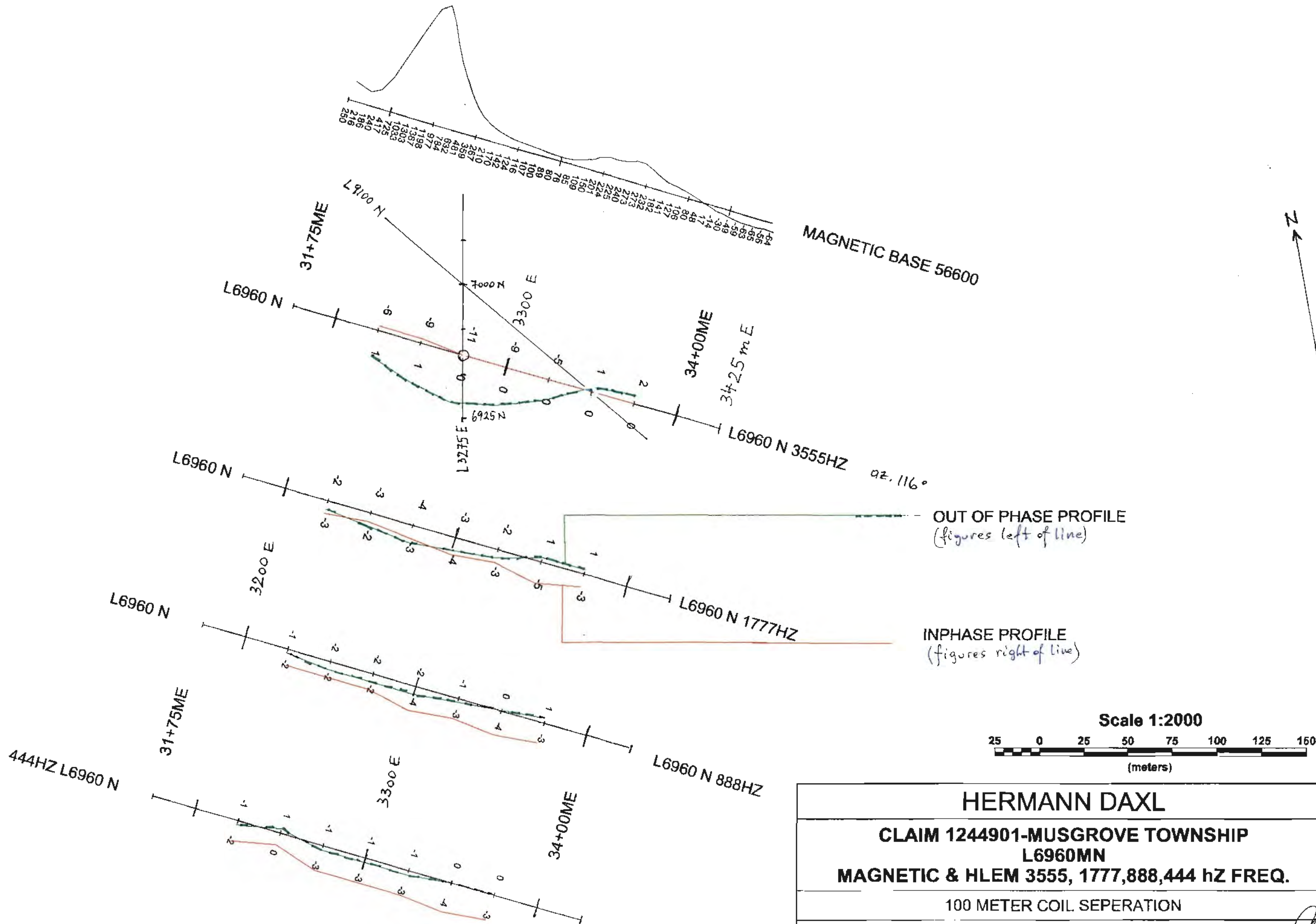
(meters)

HERMANN DAXL

CLAIM 1244901-MUSGROVE TOWNSHIP
MAGNETIC & HLEM SURVEY-3555,1777,888 & 444HZ FREQ.
LINE 3275ME

100 METER COIL SEPERATION

JULY 2009 EXSICS EXPLORATION LIMITED

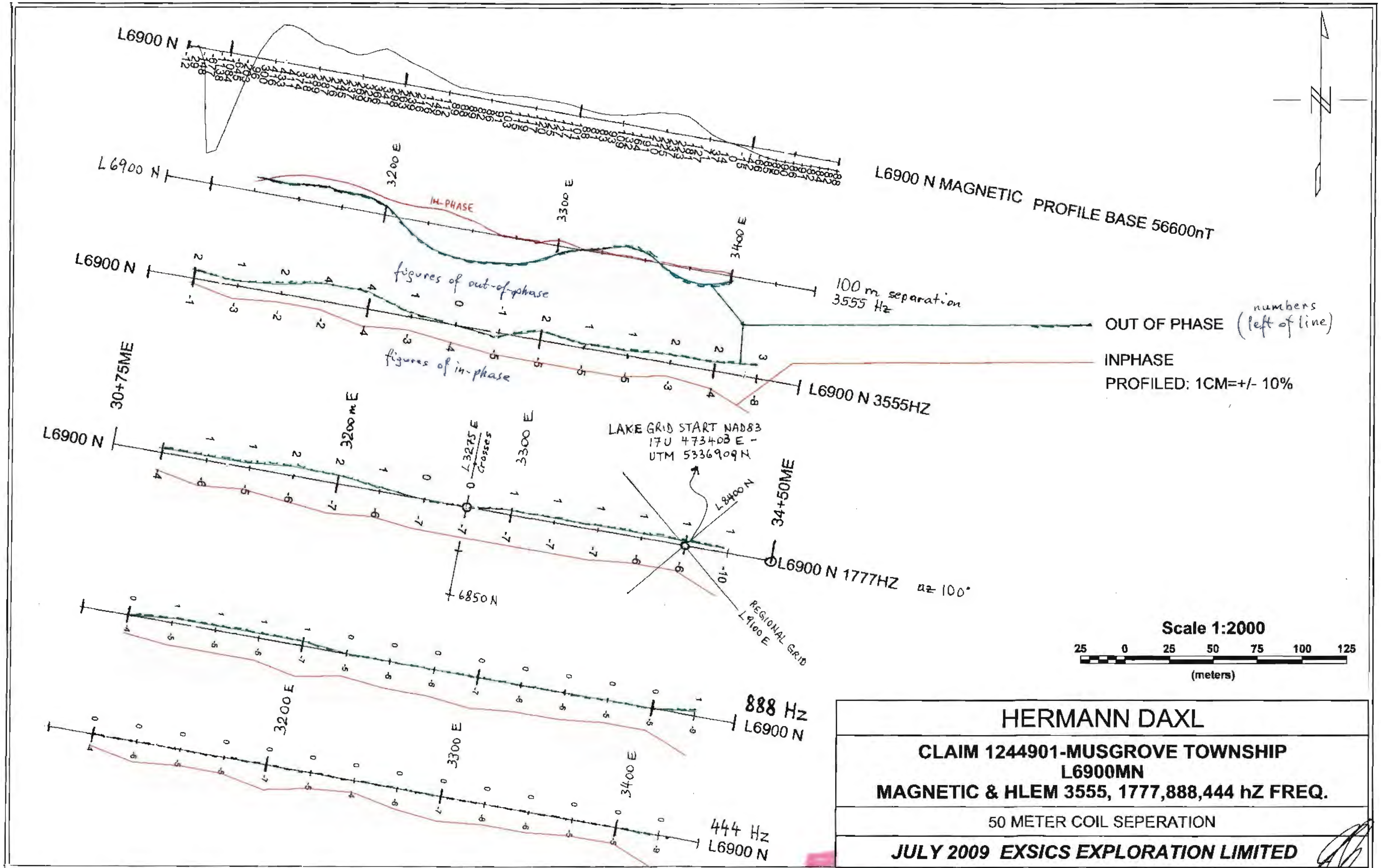


HERMANN DAXL

CLAIM 1244901-MUSGROVE TOWNSHIP
L6960MN
MAGNETIC & HLEM 3555, 1777,888,444 hZ FREQ.

100 METER COIL SEPERATION

JULY 2009 EXSICS EXPLORATION LIMITED


L6900 N MAGNETIC PROFILE BASE 56600nT
IN-PHASE
3200 E
3300 E
3400 E
100 m separation
3555 Hz
figures of out-of-phase
figures of in-phase
OUT OF PHASE
numbers (left of line)
INPHASE
PROFILED: 1CM=+/- 10%
L6900 N 3555HZ
30+75ME
3200 m E
L3275 E crosses
LAKE GRID START NAD83
17U 473403 E -
UTM 5336909 N
L8400 N
34+50ME
L6900 N 1777HZ
az 100°
6850 N
REGIONAL GRID
L9100 E
888 Hz
L6900 N
444 Hz
L6900 N
Scale 1:2000
25 0 25 50 75 100 125
(meters)
HERMANN DAXL
CLAIM 1244901-MUSGROVE TOWNSHIP
L6900MN
MAGNETIC & HLEM 3555, 1777,888,444 hZ FREQ.
50 METER COIL SEPERATION
JULY 2009 EXSICS EXPLORATION LIMITED

LAKE SLUDGE OR SWAMP HUMUS - DONUT LAKE 2009 - < 300 micron

	#		COLOUR HUE / DRY PALE-LIGHT MEDIUM-DARK	HUMUS cm ON TOP	cm ON TOP	SAMPLE cm	CHECK BELOW cm	NAD83 17U 047....E - 533....N
TEST PULP	801	= 496						
	802	sludge	dk. brown + veget	400	sludge	20	same	near tree 3370 E - 6960 N
	803	swamp humus	" - " - "	100		20	rock	3273 E - 7132 N
	804	swamp humus	" (smell sulfur)	100		20	rock	3225 E - 7023 N
	805	swamp humus	dk brown + veget	200		20	same	3220 E - 6943 N
	806	swamp humus	" " "	100		20	same	3277 E - 6906 N
	807	sludge → 813+905	dark gray	300 Water	100 Weed #813 200 Sludge	100	#905	under 813
	808	sludge → 906	dark gray	200 WATER	500 sludge	200	silt #906	3260 E - 6947 N
	809	sludge clay	dark gray mod. cond. see 907-908	100 WATER	400 sludge	100	#907 #908	3255 E - 7008 N
	810	sludge clay	dark gray mod. cond. see 909-910	200 WATER	400 sludge	15	#909 #910	3271 E - 7044 N
	811	swamp humus → 911	very dark brown	Swamp	300 HUMUS	100	#911	3245 E - 6901 N
	812	sludge → 912	dark gray mod. cond.	200 WATER	400 sludge	20	#912	3343 E - 6982 N
	813	weed on sludge #807	olive gray, stinks	300 WATER		100 WEED	#807 #905	3314 E - 6933 N
TEST PULP	814	= 496						
	815	swamp humus	dk. brown, much veget	100		10	same	3138 E - 6924 N
	816	swamp humus	" very much "	100		10	same	3132 E - 6959 N
	817	swamp humus	" " "	100		10	same	3094 E - 6938 N
	818	swamp humus	" minor veg.	100		10	same	3259 E - 7128 N
	819	swamp humus	very dk. brown, mud veget	100		10	same	3406 E - 6913 N

Sieved to < 300 μm.

SAND OR SILT - DONUT LAKE 2009 - < 200 micron

	#	CLAY SILT SAND C T D	MAG % 1-5	FIZZ # 1-5		DRY PALE-LIGHT MEDIUM-DARK P L M D		HUMUS cm ON TOP	LEACHED cm ON TOP	SAMPLE cm	CHECK BELOW cm	NAD83 17U 47....E - 533....N
		G=GRAVEL										
TEST SOIL	901	=5298	0	0		L	pinkish brown		—			ppb Au LAST 23.3 ? FAILED: HERE <0.5 ?
	902	T	0	5		L no rust	greenish gray	200 WATER	700 sludge	20		↓ WITHIN DONUT ANOMALY / Very fine, washed, sorted sand
	903	TD	0	5		L tr rust contam.	"	200 W	700 sludge	coarser bigger		
	904	TD	0	5		L	"	200 W	700 sludge	fine 50 packed		
	905	T	0	5		P loose	"	300 WATER	#813 #807 400	15	rock	
	906	T	0	5		L mod cond if wet	"	see #808 200W	700 SL	50	—	
	907	TD	0	5		L loose	"	100 W	400 SL 100 #809	25	#908	
	908	T	0	5		P hard	"	100 Water	400 SL #809+908	10		
	909	TD	0	5		P loose mod. cond	"	200 W	415 #810 sludge	30	#910	
	910	T	0	5		P packed mod. cond	"	200 W	445 #810+909	20		
	911	T	0	5		L	"	400 swamp HUMUS #811		20		
	912	T	0	5		P	"	200 W	400+ #812 sludge	20	rock	↑
EXOTIC	913	C	0	0	dry v. hard	M D	olive gray		—			N.Y. Lake
EXOTIC	914	D	0	0		M	orange brown		—			N.Y. Lake
TEST PULP 496	915	—		3		—			—			—
300 m S EXOTIC	916	TDG	0	0		LM	orange brown	10	10	10	25	0473324 E - 5336648 N
↓	917	TD	1?	0		LM	"	30	5	10	25	3075 E - 6834 N
	918	D	0	0		L	beige	25	20	15	10	3175 E - 6997 N
SAND ON DRY LAND	919	TDG	0	0		M	brown	10	5	10	25	3339 E - 7232 N
	920	TDG	1	0	talcose	MD	orange brown	5	10	15	15	3361 E - 7190 N
	921	TD	0	0		L	yellow beige	5	20	15	ROCK 15	3374 E - 7110 N
	922	DG	1	0		L	orange brown	10	MUD 15	10	15	3321 E - 6826 N
	923	TG	0	0		L	beige-orange	5	20	10		3408 E - 6800 N
	924	T	0	0		L "	"	10	10	10	25	3558 E - 6794 N
	925	T	0	0	well sorted	L "	"	10	35	15		3211 E - 6806 N
↑	926	T	0	0	well sorted	M "	"	10	0	10	30 D on Rock	3232 E - 6790 N
EXOTIC	927	C h	0	0	dry v. hard	M	gray	with 10% humus				N.Y. LAKE

Sieved to < 150 micron.

Quality Analysis ... Innovative Technologies

Date Submitted:	31-Dec-09
Invoice No.:	A09-7760
Invoice Date:	19-Jan-10
Your Reference:	

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

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

46 ~~Pulp~~ sieved samples were submitted for analysis.

The following analytical package was requested: Code UT-1-0.5g Aqua Regia ICP/MS

REPORT **A09-7760**

800 Series HUMUS OR SLUDGE – DRIED – < 300 micron
900 " SILT OR SAND SOIL – DRIED – < 150 micron

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:
Assays are recommended for values >10,000 for Cu and Au.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

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

Aqua regia - 0.5 g

Activation Laboratories Ltd. **Report: A09-7760**

Analyte Symbol	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
801 TEST PULP 496	14.3	0.5	9	0.015	1.39	2.10	0.22	0.19	4.59	7.9	33	23.1	1220	7.99	44.6	48	286	469	7.4	0.1	4.1
802 S	0.9	0.3	8	0.011	0.13	0.45	0.01	0.03	1.68	0.8	9	25.6	24	0.14	2.0	28	40	58	0.5	< 0.1	2.8
803 H	1.4	0.3	15	0.013	0.28	0.40	0.02	0.05	3.38	2.1	16	43.8	39	0.19	2.4	57	156	27	1.0	0.2	4.0
804 H	1.0	0.3	9	0.015	0.11	0.39	0.01	0.04	2.04	1.8	13	40.7	25	0.30	2.9	92	73	19	0.6	0.2	2.5
805 H	0.5	0.2	12	0.012	0.14	0.32	0.01	0.04	4.69	0.9	9	23.9	71	0.24	1.7	42	39	34	0.7	0.2	4.3
806 H	1.6	0.2	4	0.011	0.19	0.38	< 0.01	0.04	1.50	1.0	10	50.8	49	0.32	3.0	33	31	34	0.5	0.2	2.5
x 807 S	3.0	0.2	10	0.013	0.35	0.44	0.02	0.04	1.49	2.1	10	75.5	54	0.38	6.5	63	51	131	0.7	0.2	2.0
808 S	1.5	0.2	12	0.013	0.14	0.39	0.02	0.03	0.99	1.8	9	43.7	40	0.24	5.1	55	51	110	0.7	0.2	3.5
809 S	1.7	0.2	7	0.015	0.15	0.37	0.03	0.04	1.33	2.3	9	43.0	55	0.43	5.7	67	55	93	0.4	0.2	1.9
810 S	1.4	0.2	19	0.014	0.18	0.35	0.02	0.06	1.60	2.1	11	43.3	64	0.39	4.5	60	55	102	0.9	0.2	3.5
811 H	0.7	0.3	5	0.008	0.11	0.60	< 0.01	0.06	0.78	0.8	9	40.3	17	0.23	4.3	51	39	43	0.7	0.2	1.1
812 S	2.5	0.2	11	0.014	0.34	0.39	0.02	0.04	2.47	1.8	13	47.6	63	0.44	5.7	63	67	82	0.8	0.2	4.0
x 813 WEED ON 807	0.4	< 0.1	18	0.032	0.22	0.14	0.35	0.09	1.44	0.6	5	13.1	31	0.25	3.2	19	17	76	0.7	0.1	3.0
814 TEST PULP 496	15.7	0.4	14	0.016	1.43	2.24	0.25	0.18	5.07	8.2	32	24.9	1310	8.88	48.2	50	294	473	7.5	0.1	2.6
815 H	0.3	0.2	17	0.016	0.23	0.44	< 0.01	< 0.02	2.74	2.7	23	46.2	117	0.21	2.2	153	100	17	0.5	0.1	3.3
816 H	0.2	< 0.1	6	0.013	0.16	0.26	< 0.01	0.03	1.27	0.7	5	13.5	9	0.13	0.9	50	21	6	0.5	0.2	2.6
817 H	0.4	0.3	14	0.017	0.17	0.83	0.01	0.03	1.96	1.9	7	22.2	7	0.17	1.0	115	77	7	0.8	0.4	5.5
818 H	3.3	0.2	12	0.013	0.35	0.63	0.02	0.05	1.95	1.5	18	116.0	36	0.26	4.8	66	62	18	1.0	0.3	2.1
819 H	0.5	0.1	17	0.013	0.27	0.26	0.01	0.04	3.38	0.9	3	19.0	14	0.13	0.6	18	38	6	0.6	0.3	2.9
901 TEST SOIL 5298	12.2	0.3	5	0.013	0.16	1.32	0.02	0.09	0.10	1.6	35	50.7	59	1.94	3.8	40	9	27	6.7	0.2	4.4
902	5.2	0.2	14	0.023	1.89	0.38	0.05	0.04	7.90	1.7	16	24.3	239	0.79	3.8	18	11	14	1.5	0.1	3.3
903	5.6	0.1	16	0.022	1.73	0.35	0.04	0.03	7.99	1.7	12	22.0	218	0.71	3.7	19	11	14	1.3	0.1	1.9
904	5.2	0.2	19	0.024	1.90	0.38	0.04	0.04	7.05	1.6	14	23.8	243	0.79	3.8	18	10	14	1.5	0.1	4.3
LAKE SAND 905	8.1	0.2	22	0.025	2.09	0.50	0.06	0.04	6.51	2.3	16	31.9	208	0.92	4.7	20	11	17	2.0	0.2	2.6
906	6.1	0.2	14	0.023	1.99	0.41	0.04	0.04	6.94	1.8	17	29.0	213	0.78	3.8	17	10	15	1.8	0.1	3.7
907	4.9	0.2	14	0.020	1.51	0.31	0.04	0.03	6.56	1.7	13	21.8	170	0.66	3.4	16	9	12	1.4	0.2	3.3
908	7.1	0.2	14	0.024	2.10	0.50	0.06	0.04	6.74	2.3	17	31.2	222	0.86	4.5	18	9	15	1.9	0.1	2.0
909	5.5	0.2	12	0.021	1.78	0.36	0.05	0.03	11.00	1.8	15	20.7	189	0.77	3.5	20	11	12	1.3	0.2	1.7
910	6.2	0.2	14	0.022	1.79	0.41	0.05	0.03	5.70	2.0	16	27.3	181	0.74	4.0	17	8	14	1.6	0.1	1.9
911	4.7	0.2	16	0.020	1.65	0.31	0.04	0.03	7.20	1.7	13	22.3	174	0.65	3.3	16	8	12	1.4	0.1	2.9
912	6.6	0.2	17	0.025	2.23	0.49	0.05	0.04	6.30	2.1	18	33.5	188	0.96	4.1	17	9	16	2.0	0.1	7.9
913 EXOTIC CLAY	49.5	1.6	24	0.043	1.30	3.58	0.46	0.26	0.91	9.5	66	82.3	360	3.59	15.0	44	30	86	12.6	0.2	4.1
914 EXOTIC SAND	15.0	1.2	1	0.013	0.13	6.86	0.04	0.10	0.13	4.4	36	53.1	239	3.46	5.6	13	10	33	6.3	0.2	3.7
915 TEST PULP 496	14.6	0.5	12	0.018	1.54	2.27	0.24	0.20	4.90	8.8	38	27.4	1380	8.61	46.7	49	310	512	8.4	0.1	5.0
916 300 m South	12.7	0.4	< 1	0.013	0.23	2.11	0.03	0.10	0.13	2.4	31	57.3	69	2.20	9.3	42	7	13	5.3	< 0.1	3.1
917	11.5	0.5	11	0.015	0.17	2.25	0.03	0.08	0.12	2.3	32	38.0	61	2.14	4.0	17	4	27	6.5	0.2	4.5
918	12.8	0.4	5	0.017	0.69	1.96	0.02	0.10	0.15	2.2	35	169.0	121	1.95	18.5	120	10	18	4.6	0.1	2.9
919	12.1	0.5	4	0.012	0.52	1.55	0.02	0.23	0.15	1.8	37	193.0	83	2.69	9.9	64	12	21	5.3	0.1	4.0
920	13.5	0.4	4	0.014	0.69	2.20	0.02	0.09	0.15	2.6	35	330.0	104	2.52	11.8	77	12	13	4.3	0.1	2.8
LAND SAND 921	9.9	0.4	4	0.014	0.21	1.01	0.03	0.07	0.16	2.0	26	51.0	68	1.39	6.1	40	9	13	4.3	0.1	0.8
922	8.1	0.4	10	0.018	0.35	1.24	0.03	0.08	0.26	2.1	26	83.0	113	1.39	7.3	41	7	14	2.9	0.2	3.7
923	8.5	0.4	4	0.013	0.21	1.59	0.03	0.07	0.12	2.0	27	55.9	74	1.81	5.1	25	3	12	4.6	0.1	5.1
924	7.6	0.3	1	0.012	0.15	1.59	0.02	0.05	0.13	1.8	19	26.9	56	1.26	4.3	17	3	12	2.9	0.2	1.9
925	5.5	0.2	6	0.014	0.17	0.90	0.02	0.04	0.19	1.4	19	36.0	56	0.86	2.7	16	6	11	2.2	0.2	3.7
926	12.4	0.2	< 1	0.012	0.20	1.10	0.04	0.07	0.10	1.8	23	48.3	95	2.01	5.5	24	11	23	4.4	0.1	1.7
927 EXOTIC CLAY+H	52.0	1.4	18	0.040	1.26	3.41	0.43	0.24	0.86	9.3	65	82.0	369	3.53	13.9	42	29	90	12.8	0.2	3.3

Aqua regia - 0.5g

Activation Laboratories Ltd. **Report: A09-7760**

Analyte Symbol	Sample note	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
Unit Symbol		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit		0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Analysis Method		AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
801	TEST PULP 496	1.6	6.6	30	14.6	3.0	< 0.1	0.9	1.270	3.39	0.04	0.16	0.17	0.02	0.13	46.2	4.7	12.3	1.9	10.3	3.2
802	S	1.1	0.8	15	5.1	1.2	0.3	1.0	0.067	0.29	< 0.02	0.11	0.10	< 0.02	0.23	17.0	7.9	9.6	1.9	7.6	1.4
803	H	3.1	2.7	28	10.8	4.6	0.4	4.5	0.112	0.56	< 0.02	0.12	0.12	< 0.02	2.11	38.0	11.4	9.0	3.1	12.3	2.3
804	H	2.5	0.9	13	7.9	4.1	0.3	1.4	0.076	0.45	< 0.02	0.09	0.09	0.04	0.38	24.4	8.0	10.7	2.0	8.1	1.5
805	H	1.6	0.7	26	5.6	1.8	0.2	0.9	0.063	0.39	< 0.02	0.11	0.09	< 0.02	0.24	30.8	7.3	7.8	1.9	7.4	1.4
806	H	1.2	0.8	17	4.0	1.6	0.3	0.6	0.172	0.26	< 0.02	0.08	0.05	< 0.02	0.39	63.1	5.9	7.2	1.5	5.9	1.1
x 807	S	1.3	1.7	15	6.2	2.6	0.3	1.4	0.084	0.46	< 0.02	0.10	0.05	0.05	0.62	38.5	9.6	10.5	2.3	9.1	1.6
808	S	1.4	1.5	18	6.6	2.5	0.2	1.3	0.110	0.60	< 0.02	0.07	0.06	0.04	0.59	56.1	9.5	9.4	2.5	9.9	1.8
809	S	1.7	2.0	18	7.4	3.5	0.3	1.7	0.081	0.42	< 0.02	0.08	0.06	0.03	0.70	41.1	10.7	10.4	2.6	10.5	1.9
810	S	2.0	1.7	19	7.2	3.9	0.3	2.0	0.096	0.44	< 0.02	0.13	0.08	0.03	0.58	48.2	9.1	9.4	2.4	9.8	1.8
811	H	1.4	0.7	17	5.4	0.7	0.3	0.6	0.132	0.67	< 0.02	0.18	0.09	0.02	0.25	28.1	9.6	13.0	2.1	7.8	1.4
812	S	1.9	2.1	19	7.0	3.5	0.4	4.3	0.130	0.44	< 0.02	0.09	0.09	0.04	0.61	25.7	9.6	10.7	2.5	10.1	1.9
x 813	WEED ON 807	1.1	5.0	30	1.3	0.7	0.1	0.7	0.045	0.33	< 0.02	0.24	0.08	0.03	0.25	106.0	2.2	2.4	0.5	2.1	0.4
814	TEST PULP 496	1.4	6.6	29	14.3	3.5	< 0.1	0.9	1.350	3.41	0.04	0.15	0.16	0.03	0.14	45.2	4.7	12.2	1.9	10.2	3.3
815	H	2.1	0.7	27	12.1	4.1	0.3	4.4	0.087	0.39	< 0.02	< 0.05	0.09	< 0.02	0.35	27.0	13.2	11.4	3.2	12.7	2.5
816	H	0.8	0.4	20	2.5	0.7	0.1	0.3	0.068	0.17	< 0.02	0.09	0.06	< 0.02	0.11	18.9	4.7	6.6	1.1	4.2	0.8
817	H	2.0	0.6	32	18.5	2.1	0.3	0.4	0.145	0.53	< 0.02	0.11	0.08	< 0.02	0.18	32.2	34.3	24.2	7.8	29.9	5.0
818	H	3.7	1.5	22	7.8	1.6	0.2	1.4	0.097	0.43	< 0.02	0.12	0.11	< 0.02	1.36	32.1	11.8	10.6	2.9	11.2	2.0
819	H	1.7	1.2	29	3.0	2.1	0.2	1.1	0.080	0.41	< 0.02	0.08	0.05	< 0.02	0.18	22.0	3.7	4.3	0.9	3.8	0.7
901	TEST SOIL 5298	0.7	3.3	7	2.0	1.6	1.7	0.6	0.033	0.05	< 0.02	0.47	0.06	0.02	1.00	17.2	9.4	18.6	2.2	7.9	1.3
902		0.6	3.6	48	4.4	6.4	1.0	0.3	0.017	0.06	< 0.02	0.19	0.03	< 0.02	0.39	24.5	9.4	18.7	2.3	8.8	1.6
903		0.6	3.5	46	4.2	5.9	0.9	0.3	0.016	0.09	< 0.02	0.18	0.03	< 0.02	0.38	23.2	9.2	18.9	2.3	8.6	1.6
904		0.7	3.4	42	4.4	6.2	1.0	0.3	0.019	0.05	< 0.02	0.19	0.03	< 0.02	0.37	20.2	9.1	18.8	2.3	9.2	1.8
905		0.5	5.1	38	5.2	8.7	0.6	0.3	0.022	0.04	< 0.02	0.23	0.03	0.04	0.38	21.1	11.7	24.0	2.8	10.5	1.9
906	LAKE SAND	0.5	3.7	43	4.6	7.5	0.9	0.4	0.016	0.08	< 0.02	0.20	0.04	< 0.02	0.33	19.5	9.5	19.7	2.4	9.2	1.7
907		0.5	3.3	38	4.4	6.1	0.9	0.4	0.012	0.05	< 0.02	0.17	0.04	0.04	0.35	17.5	9.4	19.4	2.3	8.7	1.5
908		0.4	4.9	41	5.2	8.5	0.6	0.3	0.126	0.05	< 0.02	0.24	0.04	0.02	0.39	18.8	12.5	25.1	2.9	10.9	1.9
909		0.8	3.8	65	4.3	6.6	1.0	0.8	0.093	0.06	< 0.02	0.18	0.03	0.02	0.42	30.3	8.5	17.3	2.0	7.8	1.4
910		0.3	3.7	35	4.8	6.9	0.6	0.3	0.044	0.04	< 0.02	0.20	0.04	0.02	0.29	14.8	10.7	21.9	2.6	9.8	1.7
911		0.6	3.1	44	4.5	6.3	0.9	0.5	0.231	0.05	< 0.02	0.18	0.03	< 0.02	0.31	18.8	8.5	18.0	2.2	8.4	1.5
912		0.6	4.2	42	5.4	8.4	0.7	0.8	0.165	0.04	< 0.02	0.24	0.04	< 0.02	0.35	17.9	10.4	21.7	2.6	10.1	1.9
913	EXOTIC CLAY	1.1	45.5	37	13.2	25.9	1.8	0.1	0.216	0.14	0.03	1.13	0.13	0.04	2.48	181.0	30.3	63.2	7.4	27.6	5.0
914	EXOTIC SAND	2.2	4.7	9	3.4	9.5	2.3	0.8	0.271	0.52	0.03	0.39	0.08	0.04	0.45	43.9	7.7	15.2	1.8	6.6	1.4
915	TEST PULP 496	1.8	7.6	33	16.1	4.2	< 0.1	1.1	1.620	3.77	0.04	0.18	0.17	0.03	0.13	49.8	5.1	13.6	2.2	11.4	3.6
916	300 m South	1.0	4.0	8	3.3	2.8	2.1	0.6	0.045	0.03	< 0.02	0.42	0.05	< 0.02	1.19	38.3	10.1	21.0	2.4	9.1	1.7
917		0.9	4.6	7	2.7	4.0	2.4	0.6	0.281	0.11	0.02	0.47	0.07	< 0.02	0.96	24.9	8.9	18.2	2.1	7.7	1.3
918		0.3	2.5	8	2.5	4.6	1.6	0.2	0.043	0.04	< 0.02	0.38	0.03	< 0.02	0.98	46.9	10.6	21.3	2.4	9.0	1.5
919		0.8	3.4	8	2.1	1.8	1.7	0.8	0.223	0.09	< 0.02	0.33	0.05	0.08	0.86	15.7	8.3	17.5	1.8	6.6	1.2
920		0.7	2.2	8	2.4	2.6	1.4	0.3	0.163	0.07	< 0.02	0.28	0.04	< 0.02	1.07	14.9	8.0	18.0	1.8	6.6	1.2
921	LAND SAND	0.8	4.0	9	4.0	3.4	1.7	0.3	0.163	0.03	< 0.02	0.38	0.04	0.04	1.44	18.8	12.9	23.7	2.9	10.7	1.8
922		0.8	2.9	12	4.4	1.4	1.4	0.3	0.169	0.03	< 0.02	0.28	0.04	0.03	0.94	19.2	13.6	43.8	3.3	12.4	2.2
923		0.8	3.1	7	3.0	2.2	1.9	0.3	0.181	0.04	< 0.02	0.37	0.05	0.04	0.71	18.4	9.4	19.6	2.2	8.2	1.5
924		0.6	2.3	7	2.8	2.0	1.4	0.2	0.226	0.04	< 0.02	0.26	0.04	< 0.02	0.40	17.5	9.0	19.5	2.0	7.1	1.3
925		0.7	1.6	9	3.7	1.7	1.3	0.2	0.127	0.03	< 0.02	0.21	0.03	< 0.02	0.45	10.5	11.2	23.1	2.7	10.4	1.9
926		0.8	4.7	7	2.2	1.7	1.6	0.6	0.134	0.03	< 0.02	0.37	0.06	< 0.02	1.36	19.8	8.9	17.4	1.9	6.8	1.1
927	EXOTIC CLAY + h	0.9	44.6	35	13.4	23.4	1.9	0.3	0.214	0.16	0.03	1.13	0.13	0.03	2.40	177.0	31.7	66.6	7.6	28.4	5.1

Aqua regia - 0.5g

Activation Laboratories Ltd. **Report: A09-7760**

Analyte Symbol	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
801 TEST PULP 496	1.1	4.3	0.6	3.15	0.6	1.6	0.2	1.2	0.2	< 0.1	< 0.05	0.1	0.001	25.6	0.03	205.00	0.4	0.2
802 S	0.4	1.3	0.2	0.94	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3	0.002	< 0.5	0.04	2.90	0.2	0.8
803 H	0.6	2.2	0.3	1.60	0.3	1.0	0.1	1.0	0.2	< 0.1	< 0.05	0.5	0.006	0.7	0.18	2.49	0.4	8.3
804 H	0.4	1.6	0.2	1.26	0.3	0.9	0.1	0.8	0.1	< 0.1	< 0.05	0.3	0.003	0.9	0.12	3.26	0.3	1.8
805 H	0.3	1.2	0.2	0.87	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3	0.003	< 0.5	0.06	3.90	0.2	0.7
806 H	0.3	1.1	0.1	0.75	0.2	0.4	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2	0.002	0.7	0.05	2.07	0.3	0.8
x 807 S	0.4	1.6	0.2	1.15	0.2	0.7	< 0.1	0.6	0.1	< 0.1	< 0.05	0.3	0.001	< 0.5	0.07	1.93	0.5	0.8
808 S	0.4	1.5	0.2	1.09	0.2	0.7	< 0.1	0.7	0.1	< 0.1	< 0.05	0.3	0.002	1.0	0.07	2.07	0.4	0.7
809 S	0.5	2.0	0.2	1.36	0.3	0.8	0.1	0.7	0.1	< 0.1	< 0.05	0.4	0.001	< 0.5	0.09	2.08	0.7	0.9
810 S	0.4	1.7	0.2	1.17	0.2	0.7	0.1	0.7	0.1	< 0.1	< 0.05	0.4	0.003	1.1	0.11	4.01	0.6	1.0
811 H	0.4	1.4	0.2	0.98	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2	0.002	< 0.5	0.04	7.93	0.2	1.0
812 S	0.5	1.8	0.2	1.23	0.2	0.7	< 0.1	0.6	0.1	< 0.1	< 0.05	0.7	0.004	2.0	0.12	2.06	0.5	1.6
x 813 WEED ON 807	< 0.1	0.3	< 0.1	0.22	< 0.1	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.3	0.003	< 0.5	0.05	9.20	0.2	0.2
814 TEST PULP 496	1.1	4.5	0.6	3.61	0.7	1.7	0.2	1.3	0.2	< 0.1	< 0.05	0.2	< 0.001	50.6	0.04	212.00	0.4	0.2
815 H	0.7	2.7	0.4	2.12	0.4	1.3	0.2	1.2	0.2	< 0.1	< 0.05	0.4	0.003	< 0.5	0.16	1.04	0.6	2.1
816 H	0.2	0.8	< 0.1	0.57	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.04	4.11	0.1	0.3
817 H	1.2	4.5	0.5	2.92	0.6	1.8	0.3	1.6	0.3	< 0.1	< 0.05	0.2	0.002	< 0.5	0.05	2.36	0.4	1.0
818 H	0.5	1.9	0.3	1.46	0.3	0.8	0.1	0.8	0.1	< 0.1	< 0.05	0.2	0.006	< 0.5	0.09	3.86	0.2	7.4
819 H	0.2	0.7	< 0.1	0.55	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	0.002	< 0.5	0.05	2.48	0.2	1.2
901 TEST SOIL 5298	0.2	1.0	0.1	0.51	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.001	< 0.5 ?	0.05	4.74	1.5	0.4
902	0.3	1.6	0.2	0.98	0.2	0.5	< 0.1	0.4	< 0.1	0.2	< 0.05	0.1	< 0.001	< 0.5	0.05	2.27	1.6	0.6
903	0.3	1.4	0.2	0.96	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.05	2.15	1.6	0.6
904	0.4	1.6	0.2	1.00	0.2	0.5	< 0.1	0.4	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 0.5	0.05	2.27	1.6	0.6
905	0.4	1.7	0.2	1.12	0.2	0.6	< 0.1	0.5	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 0.5	0.05	2.75	2.3	0.5
906 LAKE SAND	0.4	1.6	0.2	0.98	0.2	0.5	< 0.1	0.5	< 0.1	0.2	< 0.05	< 0.1	0.001	< 0.5	0.05	2.46	1.9	0.5
907	0.3	1.4	0.2	0.90	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.95	1.8	0.5
908	0.4	1.9	0.2	1.23	0.2	0.6	< 0.1	0.5	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 0.5	0.04	2.71	2.4	0.5
909	0.3	1.4	0.2	0.93	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	0.001	3.0	0.05	2.04	1.9	1.1
910	0.3	1.6	0.2	1.07	0.2	0.5	< 0.1	0.4	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 0.5	0.05	2.33	2.0	0.5
911	0.3	1.3	0.2	0.86	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.85	1.7	0.6
912	0.4	1.7	0.2	1.08	0.2	0.6	< 0.1	0.5	< 0.1	0.2	< 0.05	< 0.1	0.001	< 0.5	0.05	2.69	2.1	1.0
913 EXOTIC CLAY	1.0	4.4	0.5	2.89	0.5	1.5	0.2	1.5	0.2	0.6	< 0.05	0.1	0.001	< 0.5	0.29	15.80	11.6	2.0
914 EXOTIC SAND	0.4	1.3	0.2	1.04	0.2	0.4	< 0.1	0.3	< 0.1	0.4	< 0.05	0.2	0.001	< 0.5	0.07	9.28	4.0	0.6
915 TEST PULP 496	1.3	4.7	0.6	3.50	0.7	1.8	0.2	1.4	0.2	< 0.1	< 0.05	0.2	0.002	29.1	0.03	235.00	0.9	0.2
916 300 m South	0.3	1.4	0.2	0.89	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 0.5	0.05	6.58	2.9	0.5
917	0.2	1.0	0.1	0.64	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	12.10	2.6	0.4
918	0.2	1.3	0.1	0.65	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.03	5.53	3.0	0.4
919	0.2	1.0	0.1	0.54	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.03	5.64	2.5	0.3
920	0.2	1.1	0.1	0.66	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.03	4.78	2.7	0.4
921 LAND SAND	0.3	1.5	0.2	0.96	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.04	3.66	2.7	0.4
922	0.4	1.8	0.2	1.05	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.04	4.01	2.4	0.5
923	0.3	1.3	0.2	0.77	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	0.9	0.04	4.89	2.8	0.4
924	0.2	1.1	0.1	0.67	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.03	4.29	2.5	0.4
925	0.3	1.5	0.2	0.89	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	0.5	0.02	5.84	2.7	0.4
926	0.2	0.9	0.1	0.54	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.06	7.58	2.6	0.4
927 EXOTIC CLAY + h	0.9	4.3	0.5	2.81	0.5	1.5	0.2	1.4	0.2	0.5	< 0.05	0.1	0.002	1.8	0.28	15.20	11.8	2.1

Activation Laboratories Ltd. Report: A09-7760

Quality Control

Analyte Symbol	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr
Unit Symbol	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	4.9	0.8	16	0.045	0.12	0.31	0.03	1690	0.77	1.3	66	7.6	851	25.1	7.5	36.5	1130	774	5.57		394	16.6	2.0	151
GXR-1 Cert	8.20	1.22	15.0	0.0520	0.217	3.52	0.0500	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	16.6	14.0	275
GXR-4 Meas	9.6	1.6	9	0.121	1.46	2.50	1.65	19.0	0.86	7.3	71	54.0	133	3.15	14.2	39.1	6580	68.2	12.1		99.6	6.6	93.3	61.3
GXR-4 Cert	11.1	1.90	4.50	0.564	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	5.60	160	221
GXR-2 Meas	44.6	1.0	14	0.149	0.45	3.02	0.58	0.31	0.68	4.2	38	22.4	990	1.84	8.4	16.1	74.3	528	12.2		16.3	0.6	43.9	74.6
GXR-2 Cert	54.0	1.70	42.0	0.556	0.850	16.5	1.37	0.690	0.930	6.88	52.0	36.0	1010	1.86	8.60	21.0	76.0	530	37.0		25.0	0.610	78.0	160
GXR-6 Meas	29.6	1.0	4	0.116	0.37	6.79	0.99	0.16	0.19	23.0	155	75.0	996	5.38	12.4	21.0	63.2	118	19.2		205	0.6	60.3	37.2
GXR-6 Cert	32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	0.940	90.0	35.0
OREAS 13P Meas														5.46		2290	2580							
OREAS 13P Cert														7.58		2260	2500							
802 Orig	0.9	0.3	2	0.010	0.12	0.42	0.01	0.03	1.70	0.8	9	23.5	23	0.14	2.0	27.8	38.4	54.2	0.43	< 0.1	1.6	0.8	0.8	14.4
802 Dup	0.9	0.2	13	0.012	0.13	0.47	0.01	0.04	1.67	0.8	8	27.6	25	0.15	2.1	28.1	41.8	62.1	0.64	0.2	3.9	1.5	0.8	15.8
816 Orig	0.2	< 0.1	8	0.014	0.17	0.27	< 0.01	0.04	1.27	0.8	4	14.5	9	0.13	0.9	49.0	21.1	6.7	0.58	0.2	4.0	0.8	0.4	20.1
816 Dup	0.1	< 0.1	4	0.012	0.16	0.25	< 0.01	0.03	1.26	0.7	5	12.6	9	0.12	0.9	50.4	20.4	5.7	0.34	0.2	1.1	0.8	0.4	19.9
920 Orig	13.5	0.4	6	0.014	0.71	2.27	0.02	0.10	0.15	2.7	35	337	107	2.52	11.6	76.3	11.6	13.4	4.38	0.1	3.2	0.8	2.2	7.7
920 Dup	13.5	0.4	2	0.013	0.66	2.14	0.02	0.09	0.15	2.6	34	322	102	2.52	12.0	77.7	11.8	13.1	4.14	0.1	2.5	0.6	2.2	7.5
Method Blank Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5

Activation Laboratories Ltd. Report: A09-7760

Quality Control

Analyte Symbol	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm
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	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	24.9	13.8	0.3	18.2	30.4	2.48	0.69	24.3	88.5	13.7	2.56	234	4.8	9.49		5.82	2.2	0.5	3.4	0.7	4.47			0.4
GXR-1 Cert	32.0	38.0	0.800	18.0	31.0	3.30	0.770	54.0	122	13.0	3.00	750	7.50	17.0		18.0	2.70	0.690	4.20	0.830	4.30			0.430
GXR-4 Meas	10.3	8.5	0.2	313	3.48	0.11	0.17	5.06	3.23	0.86	2.23	32.1	40.2	76.3		28.2	4.5	1.1	3.9	0.4	2.46			0.1
GXR-4 Cert	14.0	186	10.0	310	4.00	0.860	0.270	5.60	4.80	0.970	2.80	1640	64.5	102		45.0	6.60	1.63	5.25	0.360	2.60			0.210
GXR-2 Meas	9.23	9.4	1.7	0.85	16.9	3.51	0.04	1.03	27.5	0.63	3.22	1090	18.7	38.0		14.7	2.8	0.5	2.7	0.4	1.94			0.2
GXR-2 Cert	17.0	269	11.0	2.10	17.0	4.10	0.252	1.70	49.0	0.690	5.20	2240	25.6	51.4		19.0	3.50	0.810	3.30	0.480	3.30			0.300
GXR-6 Meas	6.18	14.1	< 0.1	1.71	0.375	0.09	0.05	0.98	1.98	0.06	2.98	1140	10.1	28.4		9.64	2.0	0.5	1.7	0.2	1.40			0.1
GXR-6 Cert	14.0	110	7.50	2.40	1.30	1.00	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0		13.0	2.67	0.760	2.97	0.415	2.80			0.0320
OREAS 13P Meas																								
OREAS 13P Cert																								
802 Orig	4.92	1.0	0.2	0.93	0.063	0.27	< 0.02	0.10	0.10	< 0.02	0.22	16.6	7.7	9.24	1.8	7.05	1.3	0.3	1.3	0.2	0.920	0.2	0.5	< 0.1
802 Dup	5.35	1.3	0.3	1.03	0.071	0.31	< 0.02	0.11	0.10	< 0.02	0.23	17.5	8.2	9.95	2.0	8.13	1.5	0.4	1.4	0.2	0.961	0.2	0.6	< 0.1
816 Orig	2.53	0.7	0.2	0.31	0.065	0.18	< 0.02	0.10	0.07	< 0.02	0.12	19.1	4.6	6.60	1.1	4.39	0.8	0.2	0.8	0.1	0.564	0.1	0.3	< 0.1
816 Dup	2.46	0.6	0.1	0.29	0.072	0.16	< 0.02	0.09	0.06	< 0.02	0.11	18.7	4.7	6.68	1.1	4.00	0.7	0.2	0.8	< 0.1	0.567	0.1	0.3	< 0.1
920 Orig	2.43	2.5	1.5	0.25	0.169	0.07	< 0.02	0.28	0.04	< 0.02	1.08	15.1	8.3	18.2	1.8	6.73	1.3	0.2	1.1	0.1	0.658	0.1	0.3	< 0.1
920 Dup	2.30	2.6	1.4	0.27	0.157	0.07	< 0.02	0.28	0.03	< 0.02	1.05	14.6	7.7	17.9	1.8	6.42	1.2	0.2	1.0	0.1	0.653	0.1	0.3	< 0.1
Method Blank Method Blank	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.1	< 0.1	< 0.1

Quality Control

Analyte Symbol	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	2.2	0.3	0.2	< 0.05	162		3320	0.35	775	2.7	31.2
GXR-1 Cert	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9
GXR-4 Meas	0.8	0.1	0.3	< 0.05	14.4		511	2.50	42.1	14.0	4.3
GXR-4 Cert	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20
GXR-2 Meas	0.9	0.1	0.2	< 0.05	0.2		21.5	0.47	705	3.7	1.3
GXR-2 Cert	2.04	0.270	8.30	0.900	1.90		36.0	1.03	690	8.80	2.90
GXR-6 Meas	0.8	0.1	0.3	< 0.05	< 0.1		56.4	1.55	95.4	3.7	0.7
GXR-6 Cert	2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54
OREAS 13P Meas							43.6				
OREAS 13P Cert							48.0				
802 Orig	0.5	< 0.1	< 0.1	< 0.05	0.4	0.001	< 0.5	0.04	2.82	0.2	0.8
802 Dup	0.6	< 0.1	< 0.1	< 0.05	0.3	0.002	< 0.5	0.04	2.98	0.2	0.8
816 Orig	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.05	3.94	0.2	0.3
816 Dup	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.02	4.28	0.1	0.3
920 Orig	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 0.5	0.03	4.91	2.8	0.3
920 Dup	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.03	4.64	2.7	0.4
Method Blank Method Blank	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1

Quality Analysis ... **Innovative Technologies**

Date Submitted:	17-Dec-09
Invoice No.:	A09-7579
Invoice Date:	06-Jan-10
Your Reference:	

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

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

FROM ~800g pulps by CATTARELLO

18 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 1C-Exp Fire Assay-ICP/MS 30 g aliquots
Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A09-7579**

Notes:

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

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

Report: A09-7579
Report Date: 1/6/2010

30 g FIRE ASSAY ICP-MS   ~800 g Pulps

Final Report
Activation Laboratories

0.25 g Near total digest ICP-OES

	Analyte Symbol		Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg
	Unit Symbol		ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
	Detection Limit		1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01
	Analysis Method		FA-MS	FA-MS	FA-MS	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
	5311	po dike	3	3	11	1.4	3.12	12	49	< 1	< 2	3.19	1.5	23	698	449	26.4	6	4	0.14	3.20
	5312	PX wallrock	1	2	15	0.8	3.01	< 3	< 7	< 1	< 2	4.45	0.7	49	1200	224	9.7	17	2	0.03	11.50
	5313	PX wallrock	1	2	5	0.7	3.09	6	< 7	< 1	< 2	4.62	0.6	18	1260	224	8.7	19	2	0.03	11.50
	5314	Gn	< 1	< 1	3	3.2	8.22	< 3	83	< 1	< 2	2.70	0.5	14	391	1860	5.9	26	< 1	1.22	1.33
	5315	Gn	2	2	20	6.1	9.01	< 3	65	< 1	< 2	2.92	0.9	117	126	3180	12.7	24	4	1.74	1.33
	5316	po dike	3	1	3	1.8	3.13	15	14	< 1	< 2	0.77	1.7	18	240	614	28.8	3	5	0.39	0.71
	5317	Gn	< 1	< 1	< 2	< 0.3	8.04	< 3	90	< 1	< 2	3.14	0.5	58	302	304	5.0	25	< 1	0.54	1.64
	5318	Gn	1	1	< 2	0.5	8.69	< 3	84	< 1	< 2	3.33	1.0	141	184	480	9.0	26	1	0.51	1.98
	5319	Gn	1	2	3	0.6	7.71	< 3	102	< 1	< 2	2.45	1.0	120	216	823	9.7	23	3	0.54	1.33
	5320	Gn po dikelets	< 1	< 1	< 2	0.4	8.18	< 3	72	< 1	< 2	3.24	0.6	107	274	527	7.6	28	3	0.41	1.25
	5321	Gn po dikelets	2	3	6	0.5	8.63	< 3	101	< 1	< 2	3.42	0.9	140	277	816	10.8	25	3	0.49	2.08
	5322	Di dike	2	4	< 2	0.5	7.31	8	152	< 1	< 2	3.38	0.8	111	356	985	8.2	26	1	0.72	2.34
	5323	Gn	< 1	< 1	< 2	0.5	6.66	< 3	119	< 1	< 2	1.83	< 0.3	65	462	566	2.9	21	< 1	0.67	0.46
	5324	po dike magn	< 1	< 1	6	0.9	6.42	< 3	81	< 1	< 2	5.19	1.5	10	256	177	14.0	22	4	0.37	1.97
	5325	Gn po dikelets-mag	< 1	< 1	< 2	< 0.3	7.82	4	152	< 1	< 2	4.59	0.5	7	327	53	7.3	27	4	0.58	1.63
	5326	py pocket in Gn	2	1	5	1.3	0.99	17	26	< 1	< 2	1.41	1.8	671	666	68	28.5	2	4	0.08	1.01
OK	5327	TEST PULP DAX1	240	92	204	2.2	1.12	< 3	53	< 1	< 2	0.80	277.0	195	164	1030	5.3	11	< 1	0.41	0.46
OK	5328	= 746 of Excav. S-2007	1	< 1	38	3.3	1.45	15	37	< 1	< 2	1.51	1.7	503	11	1550	29.3	1	4	0.07	1.29

Report: A09-7579
Report Date: 1/6/2010

~800 g Pulps

Final Report
Activation Laboratories

0.25 g Near total digest ICP/OES

Analyte Symbol	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
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
5311	571	2	0.46	366	0.012	8	< 5	13.50	15	152	6	0.11	< 5	< 10	82	< 5	9	46	37
5312	710	< 1	0.15	137	0.006	4	< 5	7.79	19	7	< 2	0.12	< 5	< 10	105	< 5	5	56	16
5313	747	< 1	0.15	155	0.006	5	< 5	7.14	19	7	< 2	0.13	< 5	< 10	104	< 5	6	61	16
5314	730	2	3.18	77	0.068	< 3	< 5	3.28	11	353	< 2	0.31	< 5	< 10	69	< 5	10	48	58
5315	404	2	2.43	148	0.080	4	< 5	7.87	< 4	397	3	0.05	< 5	< 10	42	< 5	5	38	27
5316	267	3	1.12	412	0.022	11	< 5	11.10	4	121	7	0.08	< 5	< 10	48	< 5	3	25	53
5317	540	1	3.31	33	0.033	< 3	< 5	1.35	20	229	8	0.42	< 5	< 10	124	< 5	8	23	37
5318	571	< 1	3.30	101	0.061	< 3	< 5	4.93	23	245	< 2	0.33	< 5	< 10	131	< 5	10	23	30
5319	395	< 1	3.05	67	0.057	< 3	< 5	3.11	15	226	4	0.25	< 5	< 10	88	< 5	6	19	25
5320	734	1	3.19	71	0.044	< 3	< 5	2.89	22	222	8	0.37	< 5	< 10	410	< 5	6	25	18
5321	588	2	3.22	78	0.014	< 3	< 5	3.34	28	228	< 2	0.39	< 5	< 10	172	< 5	11	22	31
5322	708	< 1	2.97	60	0.025	< 3	< 5	2.55	25	223	< 2	0.41	< 5	< 10	198	< 5	12	29	31
5323	247	2	3.72	38	0.034	< 3	< 5	0.92	9	229	< 2	0.27	< 5	< 10	62	< 5	4	8	44
5324	1490	< 1	1.57	82	0.083	5	< 5	6.92	20	238	< 2	0.28	< 5	< 10	88	< 5	17	57	34
5325	1410	1	2.19	26	0.068	< 3	< 5	0.93	15	275	2	0.35	< 5	< 10	96	< 5	10	55	36
5326	702	13	0.21	24	0.038	16	< 5	> 20.0	4	22	2	0.07	< 5	< 10	81	< 5	5	33	22
5327 TEST PULP ✓	471	< 1	0.11	3720	0.007	451	< 5	3.99	< 4	17	< 2	0.06	< 5	< 10	20	< 5	5	> 10000	40
5328 TEST PULP ✓	5290	2	0.07	133	0.010	20	< 5	> 20.0	< 4	8	8	0.07	< 5	< 10	29	< 5	8	38	17

Report: A09-7579

Final Report
Activation Laboratories

Quality Control

Analyte Symbol	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%
Detection Limit	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01
Analysis Method	FA-MS	FA-MS	FA-MS	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
GXR-1 Meas				28.4	0.64	430.00	638	< 1	1330.00	0.86	3.00	8.0	21	1090	21.70	15	6.000	0.03
GXR-1 Cert				31.0	3.52	427.00	750	1.22	1380.00	0.96	3.30	8.2	12	1110	23.60	13.8	3.900	0.05
DNC-1 Meas				< 0.3	9.64	< 3	95	< 1	< 2	7.71		53.0	144	102	6.72	22		0.17
DNC-1 Cert				0.0	9.69	0.20	114	1.00	0.02	8.06		54.7	285	96	6.94	15		0.19
GXR-4 Meas				3.3	7.05	105.00	877	2.00	24.00	1.11	0.70	15.0	53	5980	2.92	26	1.000	3.81
GXR-4 Cert				4.0	7.20	98.00	1640	1.90	19.00	1.01	0.86	14.6	64	6520	3.09	20	0.110	4.01
GXR-2 Meas				18.1	9.75	24.00	> 1000	2.00	< 2	0.91	5.20	10.0	42	80	1.81	40	< 1	1.20
GXR-2 Cert				17.0	16.50	25.00	2240	1.70	0.69	0.93	4.10	8.6	36	76	1.86	37	2.900	1.37
SDC-1 Meas				< 0.3	8.78	5.00	627	3.00	< 2	1.14	0.40	19.0	67	27	4.67			2.62
SDC-1 Cert				0.0	8.34	0.22	630	3.00	2.60	1.00	0.08	17.9	64	30	4.82			2.72
SCO-1 Meas				0.4	6.11	11.00	547	2.00	< 2	2.04	0.50	12.0	68	27	3.45			2.07
SCO-1 Cert				0.1	7.24	12.40	570	1.84	0.37	1.87	0.14	10.5	68	28.7	3.59			2.30
GXR-6 Meas				0.4	15.80	266.00	> 1000	1.00	< 2	0.24	< 0.3	14.0	71	66	5.22	44	3.000	1.67
GXR-6 Cert				1.3	17.70	330.00	1300	1.40	0.29	0.18	1.00	13.8	96	66	5.58	35	0.068	1.87
CDN-PGMS-9 Meas	2500	657	1060															
CDN-PGMS-9 Cert	2600	710	1040															
OREAS 13P Meas														2440	6.85			
OREAS 13P Cert														2500	7.58			
5316 Orig				1.8	3.12	19.00	15	< 1	< 2	0.76	1.70	17.0	234	621	29.00	2	5.000	0.39
5316 Dup				1.8	3.13	11.00	12	< 1	< 2	0.77	1.80	19.0	246	608	28.70	5	4.000	0.39
5320 Orig	< 1	< 1	< 2															
5320 Dup	< 1	< 1	5															
Method Blank Method Blank				< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	7	< 1	< 0.01	< 1	< 1	< 0.01
Method Blank Method Blank				< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	3	< 1	< 0.01	< 1	< 1	< 0.01
Method Blank Method Blank				< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	3	< 1	< 0.01	< 1	< 1	< 0.01
Method Blank Method Blank	< 1	< 1	< 2															

Report: A09-7579

Final Report
Activation Laboratories

Quality Control

Analyte Symbol	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y
Unit Symbol	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1
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
GXR-1 Meas	0.130	845	15.00	0.040	42	0.165	678	86.0	0.1900	< 4	268	24.000		< 5	30.00	90	148.0	7
GXR-1 Cert	0.217	852	18.00	0.052	41	0.065	730	122.0	0.2570	1.58	275	13.000		0.390	34.90	80	164.0	32
DNC-1 Meas	5.670	998	< 1	1.410	270	0.024	4	< 5	0.0500	29.00	127		0.280	< 5	< 10	148	< 5	15
DNC-1 Cert	6.060	1150	0.70	1.390	247	0.037	6.3	1.0	0.0390	31.00	145		0.287	0.026	0.10	148	0.2	18
GXR-4 Meas	1.720	142	304.00	0.490	46	0.130	44	< 5	1.8100	8.00	212	2.000		< 5	< 10	86	36.0	14
GXR-4 Cert	1.660	155	310.00	0.564	42	0.120	52	4.8	1.7700	7.70	221	0.970		3.200	6.20	87	30.8	14
GXR-2 Meas	0.700	952	< 1	0.540	24	0.059	694	35.0	0.0300	5.00	140	< 2		< 5	< 10	60	5.0	11
GXR-2 Cert	0.850	1010	2.10	0.556	21	0.105	690	49.0	0.0313	6.88	160	0.690		1.030	2.90	52	1.9	17
SDC-1 Meas	1.020	857	< 1	1.510	41	0.055	21	< 5	0.0600	17.00	171		0.400			75	< 5	35
SDC-1 Cert	1.020	883	0.25	1.520	38	0.069	25	0.5	0.0650	17.00	183		0.606			102	0.8	40
SCO-1 Meas	1.510	389	< 1	0.670	32	0.080	25	< 5		9.00	154		0.370			145	< 5	16
SCO-1 Cert	1.640	410	1.37	0.670	27	0.090	31	2.5		10.80	174		0.380			131	1.4	26
GXR-6 Meas	0.670	994	1.00	0.110	31	0.033	86	< 5	0.0100	28.00	48	< 2		< 5	< 10	149	< 5	12
GXR-6 Cert	0.609	1010	2.40	0.104	27	0.035	101	3.6	0.0160	27.60	35	0.018		2.200	1.54	186	1.9	14
CDN-PGMS-9 Meas																		
CDN-PGMS-9 Cert																		
OREAS 13P Meas					2330													
OREAS 13P Cert					2260													
5316 Orig	0.710	265	3.00	1.120	409	0.022	10	7.0	11.0000	4.00	122	10.000	0.080	< 5	< 10	48	< 5	3
5316 Dup	0.71	268	3.00	1.110	416	0.021	12	< 5	11.1000	4.00	120	4.000	0.080	< 5	< 10	48	< 5	3
5320 Orig																		
5320 Dup																		
Method Blank Method Blank	< 0.01	< 1	< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1
Method Blank Method Blank	< 0.01	2	< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1
Method Blank Method Blank	< 0.01	2	< 1	< 0.01	2	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1
Method Blank Method Blank																		

Report: A09-7579

Final Report
Activation Laboratories

Quality Control

Analyte Symbol	Zn	Zr
Unit Symbol	ppm	ppm
Detection Limit	1	5
Analysis Method	TD-ICP	TD-ICP
GXR-1 Meas	690	15
GXR-1 Cert	760	38
DNC-1 Meas	51	41
DNC-1 Cert	66	41
GXR-4 Meas	68	61
GXR-4 Cert	73	186
GXR-2 Meas	544	167
GXR-2 Cert	530	269
SDC-1 Meas	94	47
SDC-1 Cert	103	290
SCO-1 Meas	96	126
SCO-1 Cert	103	160
GXR-6 Meas	122	95
GXR-6 Cert	118	110
CDN-PGMS-9 Meas		
CDN-PGMS-9 Cert		
OREAS 13P Meas		
OREAS 13P Cert		
5316 Orig	25	53
5316 Dup	25	53
5320 Orig		
5320 Dup		
Method Blank Method Blank	< 1	< 5
Method Blank Method Blank	< 1	< 5
Method Blank Method Blank	< 1	< 5
Method Blank Method Blank		

Quality Analysis ... Actlabs Innovative Technologies

Date Submitted:	12-Apr-10
Invoice No.:	A10-1627 (i)
Invoice Date:	27-Apr-10
Your Reference:	DX-10-2
PO Number:	

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

ATTN: Hermann Daxl

CERTIFICATE OF ANALYSIS

5 Pulp samples were submitted for analysis.

The following analytical packages were requested:

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

REPORT **A10-1627 (i)**

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

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

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: A10-1627 (i) rev 1

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
DONUT LAKE 5433 = 5311				< 5	< 5	< 5	< 2	< 100	< 1	4	24	850	< 2	25.0	1	< 1	< 5	< 5	0.44	340	< 30	< 0.2	13.1	< 5
DONUT LAKE 5434 = 5316				< 5																				
5435 PULP TEST	7	4	2530	< 5																				
5436					< 5	< 5	< 2	< 100	< 1	4	121	100	2	23.9	2	< 1	< 5	< 5	0.74	< 50	< 30	0.2	18.5	< 5
5437					22	< 5	165	600	< 1	< 1	30	380	< 2	20.0	2	< 1	< 5	< 5	0.19	< 50	60	7.7	32.2	< 5

Activation Laboratories Ltd. Report: A10-1627 (i) rev 1

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
DONUT LAKE 5433 = 5311	< 0.05	< 0.1	< 1	0.6	< 0.5	< 4	70	5	12	10	1.1	0.6	< 0.5	1.1	0.12	37.9
DONUT LAKE 5434 = 5316																
5435 PULP TEST																
5436	< 0.05	< 0.1	< 1	0.6	< 0.5	< 4	< 50	6	12	10	1.7	0.8	< 0.5	2.3	0.29	39.3
5437	< 0.05	< 0.1	< 1	0.9	< 0.5	5	1070	5	10	10	1.9	1.2	0.6	2.4	0.27	33.9

Activation Laboratories Ltd. Report: A10-1627 (i) rev 1

Quality Control

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
WMS-1 Meas				211																				
WMS-1 Cert				225																				
CDN-PGMS-9 Meas	2590	705	940																					
CDN-PGMS-9 Cert	2600	710	1040																					
DMMAS 109 Meas					589		2670	700		8	71	140		7.05					0.81				16.3	
DMMAS 109 Cert					458		2434	573		7.6	64.9	156.3		6.8					0.7				15.3	
5435 Orig	7	4	2770	< 5																				
5435 Dup	7	4	2300	< 5																				
Method Blank Method Blank					< 5	< 5	< 2	< 100	< 1	< 1	< 5	< 10	< 2	< 0.02	< 1	< 1	< 5	< 5	< 0.05	< 50	< 30	< 0.2	< 0.1	< 5
Method Blank Method Blank				< 5																				
Method Blank Method Blank	< 1	< 1	< 2																					

Activation Laboratories Ltd. Report: A10-1627 (i) rev 1

Quality Control

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
WMS-1 Meas																
WMS-1 Cert																
CDN-PGMS-9 Meas																
CDN-PGMS-9 Cert																
DMMAS 109 Meas					40.2	19	210	16	27		2.5					
DMMAS 109 Cert					32.1	15.4	223	15.2	24.5		2.7					
5435 Orig																
5435 Dup																
Method Blank Method Blank	< 0.05	< 0.1	< 1	< 0.5	< 0.5	< 4	< 50	< 1	< 3	< 5	< 0.1	< 0.2	< 0.5	< 0.2	< 0.05	30.0
Method Blank Method Blank																
Method Blank Method Blank																

PROPERTY SHADRACK MINING - MUSGROVE TWP.

SHEET NUMBER H#1

DIAMOND DRILL RECORD

SECTION FROM 20' TO

LOCATION: LAT. 1+40 NORTH
DEP. LINE 9 WEST

ELEVATION OF COLLAR ON Lakeshore, South of DONUT Lake.

DATUM

DIRECTION AT START: BEARING SOUTH
DIP -45°

STARTED JUNE 15, 1974

COMPLETED JUNE 20, 1974

ULTIMATE DEPTH 551'

PROPOSED DEPTH 550'

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD $	SLUDGE ~~GOLD $~~
20-71'	ULTRA BASIC INTRUSIVE, CHLORITIC, TALCOSE, MEDIUM GRAINED, ODD SMALL SHEAR				
71'-[illegible]	MORE SHEARS, HIGHLY TALCOSE & CHLORITIC, FINE & COARSE DISS. PYRITE ALTERED SECTIONS WITH GREY SILICIFICATION AND WHITE CHLORITE FRAGMENTS COARSE PYRRHOTITE + PYRITE, ODD SPECK CHALCOPYRITE				
100-165	ULTRABASIC INTRUSIVE FINE GRAINED, SHEARED, TALCOSE SECTIONS STREAKS OF SILICIFICATION, THIN FRACTURES WITH CARBONATE, STRINGERS OF MAGNETITE				
165-216	COARSER GRAINED, UNALTERED EXCEPT FOR CHLORITE				
216'-260'	ANDESITE, FINE GRAINED, HIGHLY FRACTURED WITH QUARTZ CARBONATE STRINGERS, CHLORITIC, GRAIN SIZE INCREASES DOWN SECTION				
260'-381'	BIOTITE, CHLORITE SHIST (25°-45°)*; TALCOSE IN SHEARS, BANDS OF SILICA, CUBES OF PYRITE, ODD STRINGER OF QUARTZ.				
381-416'	NUMEROUS WHITE QUARTZ VEINS & STRINGERS, CHLORITE FRAGMENTS FINE PYRITE				
416'-485'	GRANITIZED, INTENSE SILICIFICATION WITH CHLORITE, ~~REMNANTS~~ CRYSTALS OF PINK FELSPAR, REMNANTS OF CHLORITE-MICA SHIST, STRINGERS AND FINE DISS. OF PYRITE, VEINS AND STRINGERS OF QUARTZ WITH FINE PYRITE				
485'-524'	QUARTZ DIORITE INTRUSIVE, WHITE FELSPAR, QUARTZ, HIGHLY ALTERED MAFIC MINERALS → BIOTITE, CHLORITE, GREY SILICIFICATION, DISS. PYRITE, QUARTZ				
524'-551'	QUARTZ DIORITE, ALTERED, MAFIC MINERALS → CHLORITE, BIOTITE; ODD SPECK OF PYRITE, MAFICS HIGHER IN PROPORTION				
551' = 168m	END OF HOLE				

* Note: Contact may dip 70° S = 90/70 therefore acute core angle means thinner rock units.

REGISTERED PROFESSIONAL ENGINEER
J. R. BOISSONEAULT
PROVINCE OF ONTARIO

T-1618