NTS 42A01

Report On the Line Cutting, Total Magnetic Field Intensity Geophysical Survey, and Geochemical Analysis on the Otto Property

Larder Lake Mining Division

Otto Township

Claim Numbers 4253832, 4250913, 4246905, 4246906, 4246906, 4250913

W½ of N¾ Lot 7;

N¾ Lot 8 Concession 4;

and Lot 6 Con 3.

Prepared for:

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Introduction

The Otto property is one hundred percent owned (100 %) by Ontario 2214098 Ltd., and is comprised of six unpatented mining claims: 4246905, 4246906, 4250911, 4250912, 4250913, 4251194, and 4253832 located in the Otto township. These claims total 51 claim units, and occupy: the E½ of the N½ of Lot 8 Concession 4; Lot 6 Concession 3 and the N½ of Lot 7 Concession 3; S¾ of Lot 6 Concession 5 and N½ Lot 7 Concession 5; Lot 7 and Lot 6, Concession 4; E ½ of the N½ and W ½ of the N¼ of Lot 8 Concession 5, and the S½ of Lot 9 and Lot 8 Concession 4, respectively. An overview of property holdings with respect to regional landmarks can be seen in Map 1.

In March 2012, a gridding and geological survey program was conducted to investigate magnetic anomalies present in the southern area of the property on claim numbers 4246905, 4253832, and 4250913 that were observed in the regional magnetic survey of the Kirkland Lake area, carried out in 2000 and 2001 by the Ontario Geological Survey (OGS). Andrew Thompson of Thompson Geophysics Inc. was retained to complete a survey of the total magnetic field intensity of an area encompassing the northeast region of 4253832, the east region of claim 4250913, and the entirety of 4246905. This resulted in the investigation of the following area: the W½ of N¾ of Lot 7 Concession 4,and the N¾ of Lot 8 Concession 4 excluding the patented areas. The purpose of the program was to indicate areas with disseminated or massivesulphide mineralization associated with gold or other mineralization of economic interest for further geological investigation. In conjunction with this investigation, geochemical sampling of rocks in the area was also carried out to begin to clarify and define the chemical composition of the Otto stock in the survey area.

Location and Access to the Grid and Property

The property is located approximately 3 kilometers South of Swastika, Ontario and 8 km Southwest of Kirkland Lake. Access is granted via Highway 66 southwest of Swastika and Kirkland Lake to Otto Road 1, which intersects both the Northern claim of the property, 4251194, and again at the south through claim 4253832. Access to the grid is given by a snowmobile trail that intersects Otto Road 1, and continues approximately along the 0 West line. A provincial scale location map is shown in Map 2.

Geological Setting and Mineral Potential

A report completed by Warren Hawkins, P. Eng, on behalf of 2214098 describes the geological setting of the property, common mineralization, and potential deposit types. Information about this report can be found in the references section.

Summary of the March 2012 Line Cutting, Geophysical, and Sampling Program

Gridding on the property established by a 1000 meter cut Baseline running North from the 0,0 point of 567500E, 5323687N.This was accompanied by the cutting of an 800 meter 0 line running West from the 0,0 point. The remained grid was flagged with flagging tape, with stations indicated at 25 meter intervals via compass traverse. Compass traversed line continued 1000 meters North of the 0 West line, from lines 0+50E to 3+50E. Lines 4+00E to 8+50E were extended 300 meters to the north to avoid the patented area, and 100 meters to the South with the exception of lines 4+00E and 7+50E. Compass

traversed lines also originated from the baseline heading East. Lines 0+00 through 10+00 N each extended 400 meters east from the baseline, and occurred at 50 meter intervals.

Geophysical surveying was completed with a GEM Overhausser GSM-19 proton magnetometer measuring total magnetic field intensity. Surveying was done in walking mode with 10 second intervals between readings, totaling 27,053 readings over the grid for a total of 20.8 kilometers surveyed. This data was used to construct the contour map shown in Map 4. Spatial filtering of data was used to display data points at 25 meter intervals from the27,053 readings taken. In order to ensure readability on these maps, 54,000 nT was subtracted from the total magnetic field intensity from each indicated datum on Maps 4 and 5. Specifications of the magnetometer can be found in Appendix A.

Geochemical analysis of outcrops was done by following contour lines that related to outcrop exposures. Assaying and analysis was completed with an x-ray fluorescence Thermo Scientific Niton XRF XL3t analyzer. Technical Specification can be found in Appendix C. Sampling took place at locally identified points of interest, with rock samples broken from outcrop. Fresh surfaces were analyzed with the device. Due to the variability in readings given by the device, owing to heterogenous concentrations of minerals and elements at the hand sample scale, multiple readings of each hand sized sample were taken at different areas to better define elemental concentrations within each sample. Map 6 shows locations of the samples taken. Appendix E shows assay certificates with analysis across the elemental range from Ti to U that were taken with the instrument. It is important to note that majority of sampling took place in the southeast area of the property. Map 6 shows locations of samples taken.

Discussion of Magnetic Survey Results

The lower region was shown to have little variation in the total magnetic field, and has decreased magnitude relative to the upper region. These low magnetic values were in the range of 56,050 to 56,150 nT, and no prospective sites for further exploration have been suggested by the investigation. However, the northern region showed a linear magnetic feature with a trend of approximately east-northeast or west-southwest. The trend has elevated magnetic values up to a range of 57,170 to 57,630 nT, and appears to be increasing in strength in the direction of East-northeast. This linear trend of high magnetic fields is parallel to a more dispersed region of moderate magnetic intensity to the north that appear to be sub-parallel to the elevated linear magnetic trend with magnetic field intensity in the range of 56,500 to 56,700 nT. The north east extent of the grid appears to show generally decreasing magnetic fields, with low magnetic field intensities in the range of 55,800 to 56,000 nT.

These results appear to coincide with an airborne magnetic survey of the area carried out by the OGS in 2000 and 2001. It shows a similar linear trend in agreement with our data. However, this program was successful in determining the location of local maxima, and determining a more precise position of the magnetic anomaly.

Discussion of Geochemical Results

Geochemical analysis was successful in identifying consistent concentrations of several base metals and heavier minerals within the Otto stock. However, limits of detection were too high to detect anomalous values for gold or other PGE. A table showing sample locations is given in table 1, and a summary of

some findings are presents below in Table 2. As detection limits vary with each sample, please reference the assay certificates in Appendix E.

Sample	Easting	Northing
1188	567380	5324308
1185	567504	5328284
1187	567901	5324293
1166	568707	5321764
1170	568722	5321803
1182	568825	5323342
1183	568839	5323344
1175	568916	5322553
1167	568742	5321780
1173	568955	5322550
1179	568993	5322637
1180	569016	5322668
1184	569122	5323104
1174	568955	5322550
1186	567504	5328284
1171	568722	5321803
1172	568722	5321803
1168	568742	5321780
1169	568742	5321780
1176	568916	5322553
1177	568916	5322553
1178	568916	5322553
1181	569016	5322668

Table 1. A table with UTM sample locations, map datum is NAD 83 Zone 17N (CSRS 98). Readings with the same locations are duplicate readings as mentioned in the summary in the previous section.

Sample	Cu ppm	Ni ppm	Co ppm	Fe %	Mn ppm	Cr ppm	V ppm	Ti ppm	Sn ppm	Zn ppm	Pb ppm
1166	< LOD	< LOD	< LOD	0.37	< LOD	< LOD	< LOD	440	84	< LOD	< LOD
1167	< LOD	< LOD	< LOD	0.62	1010	179	230	1393	< LOD	25	< LOD
1168	71	< LOD	< LOD	2.58	1418	< LOD	< LOD	927	< LOD	103	16
1169	59	98	< LOD	2.09	999	324	416	1685	< LOD	82	< LOD
1170	< LOD	< LOD	< LOD	8.35	1656	< LOD	< LOD	2885	< LOD	269	52
1171	< LOD	< LOD	< LOD	1.65	249	< LOD	< LOD	2032	65	57	23
1172	< LOD	< LOD	< LOD	0.54	< LOD	167	193	409	< LOD	< LOD	< LOD
1173	< LOD	181	< LOD	5.24	6103	234	482	1897	< LOD	150	89
1174	84	115	< LOD	3.80	4333	342	645	950	< LOD	151	119
1175	< LOD	< LOD	< LOD	0.40	244	< LOD	257	696	< LOD	< LOD	26

1176	< LOD	< LOD	< LOD	0.35	< LOD	< LOD	< LOD	<LOD	< LOD	< LOD	40
1177	< LOD	< LOD	< LOD	0.14	< LOD	< LOD	< LOD	135	< LOD	< LOD	17
1178	< LOD	< LOD	< LOD	1.37	20773	568	1877	1938	< LOD	417	118
1179	< LOD	< LOD	< LOD	0.61	209	139	< LOD	500	< LOD	< LOD	22
1180	< LOD	< LOD	< LOD	3.04	1343	124	623	3152	78	110	< LOD
1181	< LOD	< LOD	< LOD	1.89	1601	141	425	2291	< LOD	76	25
1182	< LOD	< LOD	< LOD	0.77	226	155	< LOD	716	< LOD	40	< LOD
1183	< LOD	< LOD	< LOD	0.41	< LOD	195	230	1612	< LOD	< LOD	< LOD
1184	< LOD	< LOD	246	1.59	500	253	317	1257	79	118	19
1185	< LOD	< LOD	< LOD	5.78	3076	198	< LOD	2128	< LOD	93	< LOD
1186	70	156	< LOD	8.86	3912	1010	418	6882	< LOD	103	29
1187	< LOD	< LOD	< LOD	0.83	176	< LOD	392	1601	< LOD	< LOD	22
1188	< LOD	< LOD	< LOD	2.60	517	171	403	704	< LOD	34	43

Table 2. A summary of chemical analysis of selected elements. Please note that LOD limits vary and can be found in the assay certificates of Appendix E.

Conclusions and Recommendations

The geophysical survey mapped a linear anomaly that may be significant. The central to South regions of the Otto property are positioned in the alkali intrusive complex as indicated in the OGS mapping of the area. Magnetite mineralization is minor in these syenitic and granitic rocks, as indicated in previous reports on the Otto property. However, it has also been observed that this alkali intrusive phase that dominates the geological setting of this area of the Otto township has: i) mafic and ultramafic alkali gabbro phases; and ii) lamprophyre dikes with observed magnetite mineralization, which may explain the elevated levels of magnetite, and/or pyrrhotite mineralization indicated by the linear magnetic trend. Therefore, trenching, soil sampling, and local scale mapping, and further prospecting activities on rocks in the area should be completed to determine the lithological source of the elevated magnetic trend.

Airborne magnetic surveys also indicate regional magnetic anomalies in the northern claim units of the Otto property. If further geophysical surveys are contemplated, a magnetic field survey should be completed in the northern region to accurately map and locate more magnetic anomalies in the area. This could be used to indicate prospective sites for further geological investigation as mentioned above, in order to determine the lithological source of the broad anomalies indicated from the airborne survey completed by the OGS.

References

The following OGS publications can give references to the geological setting and large scale electromagnetic surveys of the Kirkland Lake area:

Map 2239, Ontario Geological Survey, Publication P3534, Precambrian Geology of Ebby and Otto Townships, 2004.

Maps 82 050 and 82051, Ontario Geological Survey, Aeromagnetic Survey of Kirkland Lake Area 2001.

Map 82 039, Ontario Geological Survey, Aeromagnetic Survey of Kirkland Lake 2000.

Also, 2214098 had a report written by Warren Hawkins, P Eng. on the Otto Property. It was completed June, 2011.

GEOLOGICAL REPORT ON THE OTTO TOWNSHIP PROPERTY; DISTRICT OF COCHRANE; LARDER LAKE MINING DISTRICT; ONTARIO, CANADA. Warren Hawkins, June, 2011.

Appendix A- Survey Theory and GEM GSM-19 Overhausser Magnetometer Specifications

Magnetic Survey

Theory:

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally occurring magnetic field caused by changes in the in the magnetization of the rocks in the earth. These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent illuminate, pyrrhotite, and some lesser common minerals. Magnetic anomalies in the earth's field are caused by two types of magnetization: (1) induced, caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals. (2)Remnant magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rocks. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field. The unit of measurement (variations in intensity) is commonly known as the Gamma which is equivalent to the nanotesla (nT).

Method:

The magnetometer, GEM systems GSM-19 with an Overhausser sensor, measures the Total Magnetic Field (TMF) perpendicular to the earth's field (horizontal position in the polar region). The unit has no moving parts, produces an absolute and relatively high resolution measurement of the field and displays the measurement on a digital lighted display and is recorded (to memory). Initially, the tuning of the instrument should agree with the nominal value of the magnetic field for each particular area. The operator read the readings in walking mode, with the sensor attached at the top of 2 (56cm.) aluminum tube sections. The readings were corrected with a similar GEM-Systems magnetometer base station for diurnal correction.

Appendix B- Technical Specifications of the GEM GSM-19 Overhausser Magnetometer

GEM GSM-19 Overhauser Magnetometer Specifications

Performance
Sensitivity: 0.022 nT / √Hz
Resolution: 0.01 nT
Absolute Accuracy: +/- 0.1 nT
Range: 20,000 to 120,000 nT
Gradient Tolerance: < 10,000 nT/m
Samples at: 60+, 5, 3, 2, 1, 0.5, 0.2 sec
Operating Temperature: -40C to +50C
Operating Modes
Manual: Coordinates, time, date and reading stored automatically at minimum 3 second interval.
Base Station: Time, date and reading stored at 1 to 60 second intervals.
Remote Control: Optional remote control using RS-232 interface.
Input / Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.
Storage - 32 MB (# of Readings)
Mobile: 1,465,623
Base Station: 5,373,951
Gradiometer: 1,240,142
Walking Mag: 2,686,975
Dimensions
Console: 223 x 69 x 240 mm
Sensor: 175 x 75mm diameter cylinder
Weights
Console with Belt: 2.1 kg
Sensor and Staff Assembly: 1.0 kg
Standard Components
GSM-19 console, GEMLinkW software, batteries, harness, charger, sensor with cable, RS-232 cable and USB adapter, staff, instruction manual and shipping case.
Optional VLF
Frequency Range: Up to 3 stations between 15 to 30.0 kHz. Parameters: Vertical in-phase and out-of-phase components as % of total field. 2 components of horizontal field amplitude and total field strength in pT.
Resolution: 0.1% of total field

Appendix C- Technical Specifications for Termo Scientific Niton XRF XL3t and Survey Theory

Weight: < 3.0 lbs (< 1.3 kg)
Dimensions: 9.60 x 9.05 x 3.75 in (244 x 230 x 95.5mm)
Tude: Au anode 50 kV maximum, 40 uA maximum
Detector: High-performance Si PIN diode
System Electronics: 533 MHz ARM 11 CPU, 300 MHz Dedicated DSP, 80 MHz ASICS DSP for Signal Processing, 4096 Channel MCA
Memory: 2Mb Internal System Memory/ 128Mb Internal User Storage
Batteries: Two 4 (or optional 6) Cell Lithium-ion Battery Packs
Display: Adjustable angle VGA color touch-screen display
Standard Analytical Range: >25 elements from Ti to U

Survey Theory

X-rays are used to bombard the rock, sourced from the Au anode in the gun. Electrons in the inner atomic prbitals of elements in the rock are excited and ejected from the atom, being induced by the energy of the x rays. This results in instability in the electron configuration, causing an higher energy outer orbital electron to drop to a lower energy level around the nucleus of the elements nucleus. This phenomenon releases energy in the form of a photon, and the energy is a discrete amount dependent on the element and nuclear structure. Therefore, the intensity of different energy photons released by elements in the rock is used to determine the relative abundance of elements within the sample area.

Appendix D- Statement of Qualifications

1. I am currently in my third year of studies in geological engineering (BSCE, GEOE) at Queen's University.
2. I hold a current Ontario Prospector's License (license #: 1007743).

Lucas Currah
Signed July 15, 2012

Appendix E- Assay Certificates

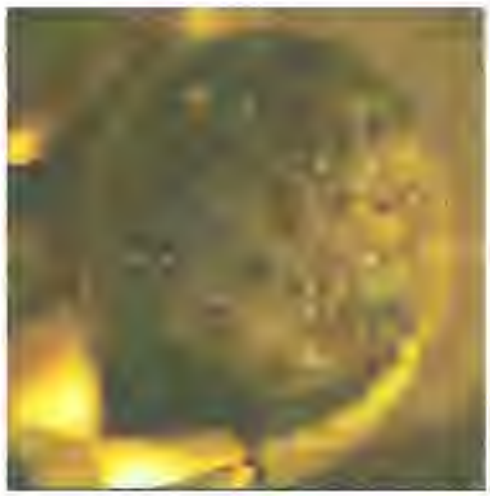
Thermo
SCIENTIFIC

Thermo Fisher Scientific
900 Middlesex Turnpike
Billerica, MA 01821

Certificate of Verification

XL3t-34724

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Time	2012-03-12 11:48
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 1
LOCATION	17u 0568707 5321764
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	12.295
Zr	24.187	±	6.116
Sr	76.771	±	6.893
U	< LOD	:	16.034
Rb	34.572	±	4.192
Th	< LOD	:	10.675
Pb	< LOD	:	13.330
Se	< LOD	:	6.700
As	< LOD	:	9.368
Hg	< LOD	:	13.739
Au	< LOD	:	9.716
Zn	< LOD	:	18.335
W	< LOD	:	118.036
Cu	< LOD	:	37.444
Ni	< LOD	:	74.382
Co	< LOD	:	95.629
Fe	3663.868	±	217.933
Mn	< LOD	:	102.751
Cr	< LOD	:	36.243
V	< LOD	:	44.730
Ti	439.529	±	42.868
Sc	< LOD	:	25.530
Ca	1284.561	±	151.548
K	13911.595	±	473.814
S	< LOD	:	1087.532
Ba	735.582	±	52.403
Cs	78.789	±	8.546
Te	132.575	±	25.177
Sb	63.893	±	14.844
Sn	84.299	±	17.620
Cd	< LOD	:	12.859
Ag	< LOD	:	10.221
Pd	< LOD	:	6.764
Bal	964413.938	±	2673.536
Nb	11.860	±	6.529

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Certificate of Verification

XL3t-34724

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Units	ppm
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Flags	
SAMPLE	currah 2
LOCATION	17u 0568742 5321780
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	11.162
Zr	50.089	±	6.715
Sr	57.537	±	5.874
U	< LOD	:	18.755
Rb	59.995	±	5.063
Th	< LOD	:	10.342
Pb	< LOD	:	13.814
Se	< LOD	:	5.157
As	< LOD	:	8.406
Hg	< LOD	:	12.486
Au	< LOD	:	9.667
Zn	24.702	±	13.865
W	< LOD	:	101.778
Cu	< LOD	:	49.949
Ni	< LOD	:	74.653
Co	< LOD	:	174.598
Fe	6156.789	±	272.371
Mn	1010.336	±	148.958
Cr	179.120	±	29.787
V	229.825	±	45.239
Ti	1392.909	±	86.835
Sc	< LOD	:	48.720
Ca	4098.786	±	378.450
K	85933.297	±	1444.036
S	< LOD	:	2406.684
Ba	851.722	±	52.186
Cs	92.823	±	8.417
Te	154.905	±	24.833
Sb	< LOD	:	31.116
Sn	< LOD	:	32.737
Cd	< LOD	:	11.891
Ag	< LOD	:	9.802
Pd	< LOD	:	6.273
Bal	879658.688	±	4592.467
Nb	< LOD	:	8.548

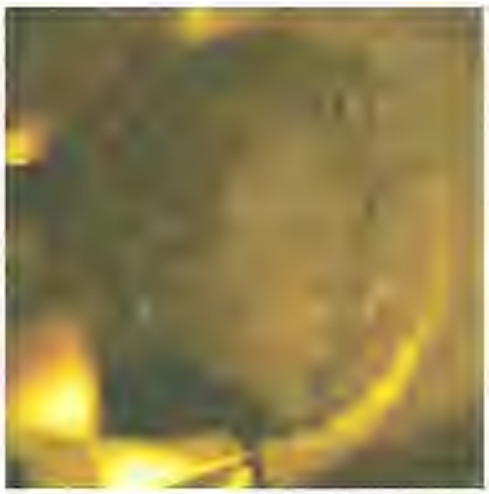
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XL3t-34724

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INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	10.965
Zr	66.562	±	7.920
Sr	60.922	±	6.525
U	< LOD	:	15.836
Rb	27.262	±	3.647
Th	< LOD	:	11.295
Pb	16.041	±	10.301
Se	< LOD	:	6.682
As	< LOD	:	9.121
Hg	< LOD	:	14.081
Au	< LOD	:	9.164
Zn	102.679	±	24.035
W	< LOD	:	114.054
Cu	71.220	±	32.914
Ni	< LOD	:	85.486
Co	< LOD	:	333.015
Fe	25797.645	±	597.143
Mn	1417.817	±	194.948
Cr	< LOD	:	274.069
V	< LOD	:	523.356
Ti	927.275	±	467.423
Sc	< LOD	:	797.448
Ca	31318.535	±	4506.286
K	5133.534	±	2912.613
S	< LOD	:	25423.719
Sb	< LOD	:	85.495
Sn	< LOD	:	86.600
Cd	< LOD	:	131.163
Ag	< LOD	:	135.206
Pd	< LOD	:	67.793
Bal	920623.563	±	28345.939
Nb	< LOD	:	9.304
Bi	< LOD	:	16.389
Re	< LOD	:	1.500
Ta	< LOD	:	1.500

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Certificate of Verification

XL3t-34724

Reading No	1169
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INSPECTOR	
MISC	
NOTE	



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Mo	< LOD	:	12.488
Zr	59.188	±	7.748
Sr	58.931	±	6.494
U	< LOD	:	17.484
Rb	31.376	±	3.992
Th	< LOD	:	12.334
Pb	< LOD	:	15.342
Se	< LOD	:	6.353
As	< LOD	:	10.898
Hg	< LOD	:	13.730
Au	< LOD	:	8.502
Zn	81.971	±	22.253
W	< LOD	:	109.471
Cu	58.563	±	32.534
Ni	98.029	±	59.142
Co	< LOD	:	313.202
Fe	20882.127	±	542.379
Mn	999.291	±	168.747
Cr	323.537	±	45.085
V	416.418	±	66.584
Ti	1685.205	±	112.999
Sc	< LOD	:	119.718
Ca	23625.824	±	629.712
K	11180.620	±	629.176
S	< LOD	:	2488.214
Ba	810.101	±	54.853
Cs	95.659	±	8.967
Te	169.190	±	26.572
Sb	84.749	±	15.725
Sn	< LOD	:	33.204
Cd	< LOD	:	12.599
Ag	< LOD	:	10.155
Pd	< LOD	:	6.681
Bal	923265.625	±	4279.352
Nb	< LOD	:	9.543

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Certificate of Verification

XL3t-34724

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Flags	
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INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	15.211
Zr	74.054	±	12.599
Sr	1624.532	±	110.817
U	< LOD	:	300000.000
Rb	50.855	±	6.166
Th	< LOD	:	300000.000
Pb	52.332	±	19.347
Se	< LOD	:	7.796
As	< LOD	:	18.417
Hg	< LOD	:	300000.000
Au	< LOD	:	300000.000
Zn	268.956	±	49.636
W	< LOD	:	157.595
Cu	< LOD	:	76.757
Ni	< LOD	:	129.372
Co	< LOD	:	598.765
Fe	83473.328	±	2926.994
Mn	1655.996	±	285.319
Cr	< LOD	:	89.450
V	< LOD	:	209.832
Ti	2884.923	±	199.974
Sc	< LOD	:	199.688
Ca	42159.309	±	1034.713
K	8252.947	±	711.468
S	13751.790	±	3569.985
Ba	1673.594	±	76.514
Cs	119.290	±	11.052
Te	157.521	±	31.807
Sb	75.353	±	18.736
Sn	< LOD	:	47.738
Cd	< LOD	:	19.054
Ag	< LOD	:	13.618
Pd	< LOD	:	9.099
Bal	826701.438	±	8862.076
Nb	< LOD	:	11.671

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XL3t-34724

Reading No	1171
Mode	TestAll Geo
Time	2012-03-12 12:31
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 3*2
LOCATION	17u 0568722 5321803
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	10.718
Zr	165.130	±	14.312
Sr	689.001	±	21.901
U	< LOD	:	25.273
Rb	39.694	±	4.925
Th	16.943	±	10.032
Pb	23.378	±	12.899
Se	< LOD	:	7.711
As	< LOD	:	12.352
Hg	< LOD	:	15.289
Au	< LOD	:	13.052
Zn	56.603	±	21.179
W	< LOD	:	135.822
Cu	< LOD	:	47.579
Ni	< LOD	:	93.954
Co	< LOD	:	219.174
Fe	16460.314	±	510.685
Mn	248.978	±	109.141
Cr	< LOD	:	50.322
V	< LOD	:	91.882
Ti	2032.282	±	122.211
Sc	< LOD	:	64.255
Ca	8576.638	±	342.820
K	12335.651	±	551.823
S	< LOD	:	3521.649
Ba	1821.784	±	70.011
Cs	74.225	±	9.461
Te	98.097	±	27.336
Sb	45.665	±	16.048
Sn	65.251	±	19.306
Cd	< LOD	:	16.021
Ag	< LOD	:	12.021
Pd	< LOD	:	7.593
Bal	932991.500	±	3610.737
Nb	21.375	±	7.591

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XL3t-34724

Reading No	1172
Mode	TestAll Geo
Time	2012-03-12 12:33
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 4
LOCATION	17u 0568722 5321803
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	11.874
Zr	25.546	±	6.565
Sr	128.118	±	8.659
U	< LOD	:	16.934
Rb	39.989	±	4.279
Th	19.521	±	8.720
Pb	< LOD	:	13.533
Se	< LOD	:	6.919
As	< LOD	:	8.699
Hg	< LOD	:	15.083
Au	< LOD	:	9.384
Zn	< LOD	:	21.536
W	< LOD	:	109.347
Cu	< LOD	:	54.110
Ni	< LOD	:	79.913
Co	< LOD	:	115.974
Fe	5388.201	±	261.552
Mn	< LOD	:	105.326
Cr	167.462	±	26.273
V	193.046	±	33.473
Ti	408.719	±	42.121
Sc	< LOD	:	30.428
Ca	1377.823	±	206.818
K	31379.539	±	773.172
S	< LOD	:	1382.488
Ba	808.343	±	50.803
Cs	76.735	±	8.141
Te	135.208	±	24.080
Sb	< LOD	:	30.516
Sn	< LOD	:	32.094
Cd	< LOD	:	11.655
Ag	< LOD	:	9.934
Pd	< LOD	:	5.208
Bal	940941.750	±	3151.677
Nb	< LOD	:	9.000

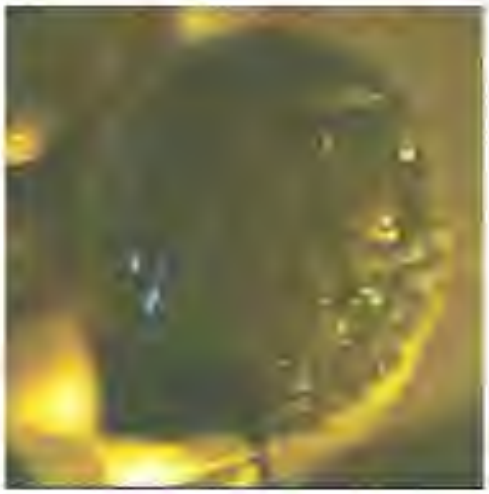
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XL3t-34724

Reading No	1173
Mode	TestAll Geo
Time	2012-03-12 13:16
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 5
LOCATION	17u 0568955 5322550
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	11.176
Zr	83.369	±	8.685
Sr	46.147	±	5.976
U	< LOD	:	17.538
Rb	36.185	±	4.298
Th	19.840	±	10.127
Pb	89.084	±	18.198
Se	< LOD	:	6.888
As	< LOD	:	18.704
Hg	< LOD	:	13.858
Au	< LOD	:	11.654
Zn	150.477	±	28.248
W	< LOD	:	126.080
Cu	< LOD	:	43.630
Ni	181.221	±	68.770
Co	< LOD	:	427.613
Fe	52418.723	±	874.634
Mn	6102.517	±	391.636
Cr	233.738	±	50.461
V	481.709	±	81.824
Ti	1897.258	±	132.692
Sc	< LOD	:	163.878
Ca	26536.365	±	836.682
K	11359.767	±	817.636
S	< LOD	:	4372.636
Ba	1062.200	±	59.948
Cs	112.109	±	9.473
Te	192.056	±	28.046
Sb	< LOD	:	35.395
Sn	< LOD	:	37.454
Cd	< LOD	:	15.438
Ag	< LOD	:	11.107
Pd	< LOD	:	7.001
Bal	893282.063	±	4527.312
Nb	< LOD	:	9.292

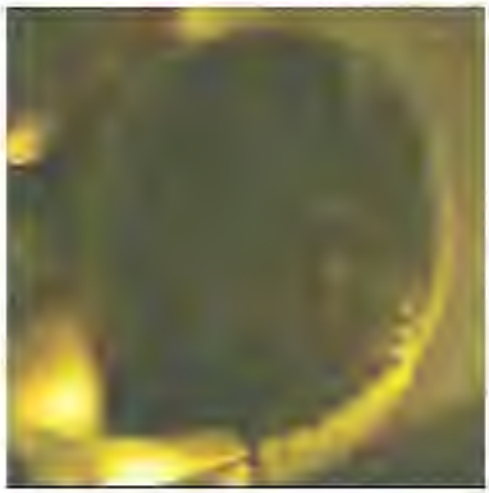
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Reading No	1174
Mode	TestAll Geo
Time	2012-03-12 13:20
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 5*2
LOCATION	17u 0568955 5322550
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	12.319
Zr	99.170	±	8.970
Sr	85.569	±	7.476
U	< LOD	:	17.808
Rb	43.853	±	4.630
Th	< LOD	:	12.311
Pb	118.719	±	19.555
Se	< LOD	:	6.845
As	34.082	±	15.988
Hg	< LOD	:	14.017
Au	< LOD	:	8.935
Zn	150.583	±	27.143
W	< LOD	:	128.864
Cu	83.499	±	33.286
Ni	114.580	±	59.007
Co	< LOD	:	380.028
Fe	38038.117	±	715.647
Mn	4332.691	±	318.911
Cr	341.906	±	56.955
V	644.498	±	85.487
Ti	949.862	±	98.354
Sc	< LOD	:	103.899
Ca	8289.927	±	508.849
K	9132.630	±	748.040
S	< LOD	:	3305.325
Ba	942.288	±	53.936
Cs	89.306	±	8.519
Te	150.114	±	25.132
Sb	< LOD	:	33.935
Sn	< LOD	:	36.025
Cd	< LOD	:	13.532
Ag	< LOD	:	10.699
Pd	< LOD	:	5.549
Bal	925704.250	±	4691.967
Nb	11.534	±	6.397

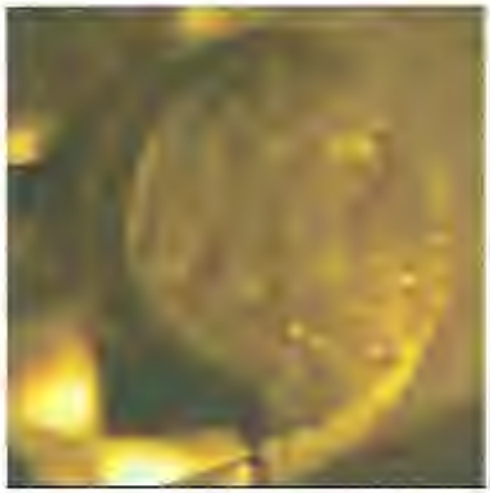
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Reading No	1175
Mode	TestAll Geo
Time	2012-03-12 13:32
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 6
LOCATION	17u 0568916 5322553
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	14.770	±	8.225
Zr	78.969	±	7.898
Sr	105.241	±	7.671
U	< LOD	:	17.421
Rb	51.808	±	4.872
Th	< LOD	:	9.859
Pb	26.156	±	10.608
Se	< LOD	:	5.277
As	< LOD	:	10.981
Hg	< LOD	:	13.273
Au	< LOD	:	7.886
Zn	< LOD	:	16.695
W	< LOD	:	106.698
Cu	< LOD	:	54.882
Ni	< LOD	:	70.289
Co	< LOD	:	165.794
Fe	4042.581	±	221.080
Mn	243.617	±	84.784
Cr	< LOD	:	43.808
V	257.339	±	39.462
Ti	696.267	±	56.593
Sc	< LOD	:	41.261
Ca	3994.157	±	268.342
K	32556.486	±	807.734
S	< LOD	:	1466.482
Ba	980.117	±	51.672
Cs	75.662	±	7.995
Te	131.349	±	23.609
Sb	61.049	±	13.876
Sn	< LOD	:	33.239
Cd	< LOD	:	12.203
Ag	< LOD	:	9.993
Pd	< LOD	:	6.226
Bal	937650.500	±	3296.139
Nb	11.625	±	6.168

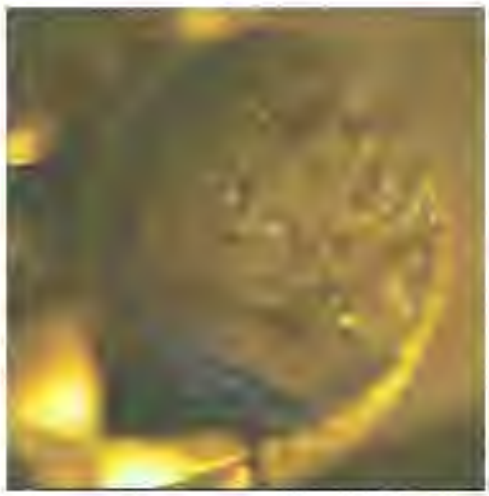
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Reading No	1176
Mode	TestAll Geo
Time	2012-03-12 13:36
Duration	16.06
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 6*1
LOCATION	17u 0568916 5322553
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	13.109
Zr	36.994	±	8.325
Sr	101.673	±	9.591
U	< LOD	:	23.407
Rb	43.030	±	5.515
Th	< LOD	:	13.361
Pb	39.681	±	15.316
Se	< LOD	:	6.525
As	< LOD	:	15.068
Hg	< LOD	:	17.180
Au	< LOD	:	11.079
Zn	< LOD	:	26.655
W	< LOD	:	143.384
Cu	< LOD	:	68.136
Ni	< LOD	:	95.417
Co	< LOD	:	120.938
Fe	3533.391	±	262.645
Mn	< LOD	:	136.257
Cr	< LOD	:	327.548
V	< LOD	:	641.974
Ti	< LOD	:	902.136
Sb	< LOD	:	96.798
Sn	< LOD	:	101.497
Cd	< LOD	:	154.096
Ag	< LOD	:	162.185
Pd	< LOD	:	78.727
Bal	992666.938	±	985.482
Nb	< LOD	:	11.095
Bi	< LOD	:	20.749
Re	< LOD	:	1.500
Ta	< LOD	:	1.500
Hf	< LOD	:	1.500

Supervised By:

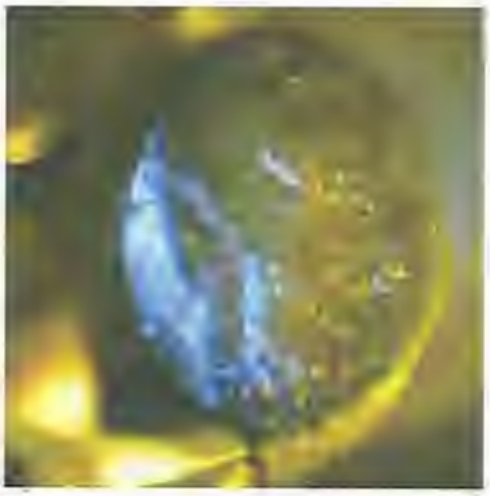
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Reading No	1177
Mode	TestAll Geo
Time	2012-03-12 13:38
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 6*1
LOCATION	17u 0568916 5322553
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	9.237
Zr	10.454	±	5.507
Sr	41.545	±	5.590
U	< LOD	:	14.660
Rb	23.171	±	3.654
Th	< LOD	:	10.574
Pb	17.456	±	10.500
Se	< LOD	:	6.106
As	< LOD	:	10.816
Hg	< LOD	:	14.199
Au	< LOD	:	8.335
Zn	< LOD	:	18.848
W	< LOD	:	126.570
Cu	< LOD	:	39.941
Ni	< LOD	:	92.374
Co	< LOD	:	69.921
Fe	1386.639	±	145.350
Mn	< LOD	:	97.772
Cr	< LOD	:	34.958
V	< LOD	:	37.147
Ti	135.343	±	27.175
Sc	74.605	±	41.178
Ca	12739.103	±	317.627
K	3563.413	±	259.684
S	< LOD	:	991.058
Ba	528.497	±	48.412
Cs	52.838	±	8.035
Te	88.211	±	23.619
Sb	< LOD	:	33.526
Sn	< LOD	:	34.937
Cd	< LOD	:	13.206
Ag	< LOD	:	10.035
Pd	< LOD	:	6.836
Bal	969262.938	+	2659.950
Nb	18.296	±	7.121

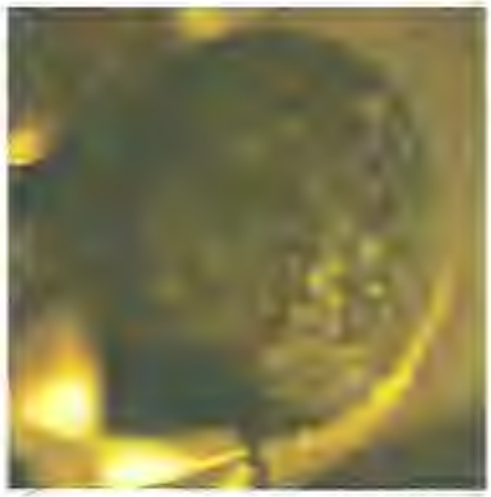
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Reading No	1178
Mode	TestAll Geo
Time	2012-03-12 13:43
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 6*2
LOCATION	17u 0568916 5322553
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	12.526
Zr	45.040	±	7.258
Sr	94.208	±	7.756
U	< LOD	:	17.771
Rb	43.343	±	4.627
Th	< LOD	:	13.265
Pb	117.941	±	19.344
Se	< LOD	:	5.954
As	< LOD	:	22.908
Hg	< LOD	:	13.197
Au	< LOD	:	8.845
Zn	417.468	±	42.267
W	< LOD	:	136.049
Cu	< LOD	:	42.276
Ni	< LOD	:	78.460
Co	< LOD	:	255.613
Fe	13704.895	±	461.419
Mn	20772.803	±	673.999
Cr	568.302	±	58.514
V	1876.927	±	117.352
Ti	1937.604	±	118.231
Sc	< LOD	:	74.070
Ca	6038.218	±	371.650
K	15552.021	±	765.239
S	< LOD	:	2182.957
Ba	986.266	±	54.593
Cs	73.583	±	8.421
Te	119.376	±	24.726
Sb	61.151	±	14.624
Sn	< LOD	:	35.348
Cd	< LOD	:	12.735
Ag	< LOD	:	10.307
Pd	< LOD	:	5.133
Bal	920916.750	±	4016.487
Nb	< LOD	:	9.076

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Reading No	1179
Mode	TestAll Geo
Time	2012-03-12 14:18
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 7
LOCATION	17u 0568993 5322637
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	10.939
Zr	38.534	±	7.235
Sr	119.343	±	8.791
U	< LOD	:	19.592
Rb	58.252	±	5.381
Th	< LOD	:	9.574
Pb	21.535	±	10.999
Se	< LOD	:	5.902
As	< LOD	:	11.050
Hg	< LOD	:	13.497
Au	< LOD	:	7.929
Zn	< LOD	:	22.023
W	< LOD	:	105.814
Cu	< LOD	:	41.342
Ni	< LOD	:	78.659
Co	< LOD	:	191.722
Fe	6089.029	±	291.716
Mn	208.752	±	89.020
Cr	139.355	±	24.795
V	< LOD	:	45.528
Ti	499.633	±	45.059
Sc	< LOD	:	32.973
Ca	2781.183	±	203.066
K	29404.199	±	661.406
S	< LOD	:	1137.424
Ba	957.847	±	67.190
Cs	98.652	±	10.722
Te	180.238	±	31.841
Sb	85.301	±	18.746
Sn	< LOD	:	31.611
Cd	< LOD	:	13.462
Ag	< LOD	:	9.664
Pd	< LOD	:	6.530
Bal	934039.000	±	3208.323
Nb	< LOD	:	9.380

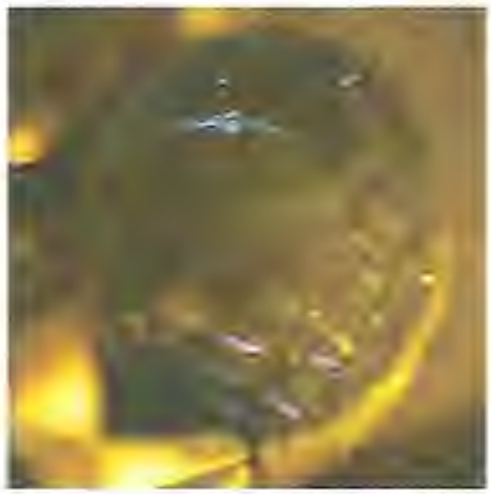
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Reading No	1180
Mode	TestAll Geo
Time	2012-03-12 14:34
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 8
LOCATION	17u 0569016 5322668
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	±	14.162
Zr	166.769	±	12.564
Sr	267.238	±	13.773
U	< LOD	±	19.687
Rb	36.890	±	4.625
Th	14.415	±	9.297
Pb	< LOD	±	16.535
Se	< LOD	±	6.885
As	< LOD	±	10.093
Hg	< LOD	±	15.503
Au	< LOD	±	9.356
Zn	109.742	±	26.601
W	< LOD	±	135.444
Cu	< LOD	±	46.495
Ni	< LOD	±	94.834
Co	< LOD	±	291.128
Fe	30351.184	±	691.688
Mn	1343.441	±	205.550
Cr	123.751	±	46.941
V	622.744	±	89.793
Ti	3152.142	±	176.097
Sc	< LOD	±	157.700
Ca	37124.891	±	828.943
K	24031.158	±	941.029
S	< LOD	±	4684.116
Ba	1644.897	±	67.044
Cs	85.203	±	9.386
Te	103.647	±	26.953
Sb	50.784	±	15.850
Sn	78.282	±	19.199
Cd	< LOD	±	13.547
Ag	< LOD	±	11.467
Pd	< LOD	±	7.052
Bal	873545.625	±	5341.800
Nb	18.897	±	7.290

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Reading No	1181
Mode	TestAll Geo
Time	2012-03-12 14:37
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 8*1
LOCATION	17u 0569016 5322668
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	13.264
Zr	101.962	±	9.612
Sr	134.291	±	9.480
U	< LOD	:	19.335
Rb	49.233	±	5.134
Th	< LOD	:	10.718
Pb	25.343	±	11.763
Se	< LOD	:	6.395
As	< LOD	:	13.639
Hg	< LOD	:	14.542
Au	< LOD	:	9.938
Zn	75.912	±	22.154
W	< LOD	:	115.337
Cu	< LOD	:	44.532
Ni	< LOD	:	88.355
Co	< LOD	:	319.558
Fe	18857.572	±	521.793
Mn	1600.934	±	207.506
Cr	141.224	±	42.628
V	424.563	±	70.178
Ti	2290.805	±	135.675
Sc	< LOD	:	127.657
Ca	28661.398	±	672.054
K	13477.283	±	667.479
S	< LOD	:	2256.813
Ba	1317.420	±	60.731
Cs	95.787	±	9.044
Te	179.636	±	26.952
Sb	< LOD	:	35.120
Sn	< LOD	:	36.251
Cd	< LOD	:	13.545
Ag	< LOD	:	9.479
Pd	< LOD	:	5.762
Bal	912512.313	±	4371.844
Nb	11.237	±	6.681

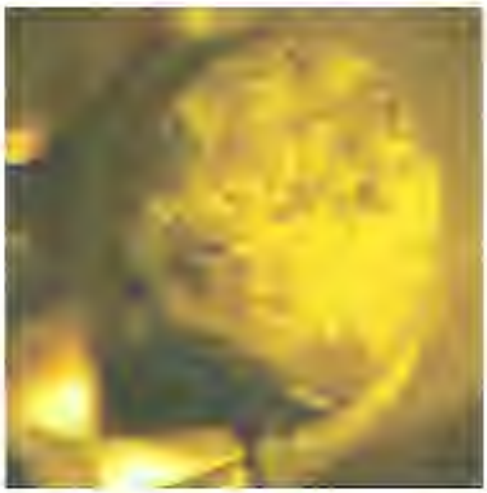
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XL3t-34724

Reading No	1182
Mode	TestAll Geo
Time	2012-03-12 15:23
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 9
LOCATION	17u 0568825 5323342
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	13.250
Zr	85.165	±	11.123
Sr	443.154	±	17.416
U	< LOD	:	22.673
Rb	50.483	±	5.351
Th	< LOD	:	13.372
Pb	< LOD	:	14.680
Se	< LOD	:	6.575
As	< LOD	:	10.832
Hg	< LOD	:	15.283
Au	< LOD	:	10.157
Zn	40.444	±	19.549
W	< LOD	:	121.343
Cu	< LOD	:	46.335
Ni	< LOD	:	90.642
Co	< LOD	:	224.215
Fe	7669.057	±	346.304
Mn	226.230	±	101.456
Cr	155.086	±	27.491
V	< LOD	:	51.886
Ti	716.317	±	57.214
Sc	< LOD	:	30.796
Ca	2601.012	±	176.681
K	14283.475	±	470.184
S	< LOD	:	2608.062
Ba	1647.230	±	79.162
Cs	108.926	±	11.416
Te	198.275	±	33.847
Sb	94.713	±	19.871
Sn	< LOD	:	30.630
Cd	< LOD	:	10.806
Ag	< LOD	:	9.125
Pd	< LOD	:	6.119
Bal	951868.875	±	2764.667
Nb	< LOD	:	10.122

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Reading No	1183
Mode	TestAll Geo
Time	2012-03-12 15:33
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 10
LOCATION	17u 0568839 5323344
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	9.194
Zr	70.764	±	9.395
Sr	338.002	±	14.171
U	< LOD	:	19.982
Rb	50.700	±	5.057
Th	< LOD	:	10.232
Pb	< LOD	:	14.948
Se	< LOD	:	7.107
As	< LOD	:	9.470
Hg	< LOD	:	13.772
Au	< LOD	:	9.637
Zn	< LOD	:	19.388
W	< LOD	:	114.032
Cu	< LOD	:	39.891
Ni	< LOD	:	79.844
Co	< LOD	:	170.803
Fe	4100.519	±	236.381
Mn	< LOD	:	134.733
Cr	195.086	±	27.248
V	229.780	±	41.832
Ti	1611.557	±	90.368
Sc	< LOD	:	25.267
Ca	782.426	±	159.676
K	20603.232	±	593.812
S	< LOD	:	2761.540
Ba	1037.200	±	54.202
Cs	81.969	±	8.352
Te	148.382	±	24.777
Sb	< LOD	:	32.541
Sn	< LOD	:	35.144
Cd	< LOD	:	12.179
Ag	< LOD	:	9.107
Pd	< LOD	:	6.677
Bal	952892.750	±	2790.235
Nb	< LOD	:	9.596

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XL3t-34724

Reading No	1184
Mode	TestAll Geo
Time	2012 03 12 15:50
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 11
LOCATION	17u 0569122 5323104
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	11.982
Zr	146.534	±	10.496
Sr	191.099	±	10.575
U	< LOD	:	18.160
Rb	36.915	±	4.094
Th	< LOD	:	10.501
Pb	18.920	±	10.442
Se	< LOD	:	6.161
As	< LOD	:	8.935
Hg	< LOD	:	13.897
Au	< LOD	:	9.783
Zn	117.862	±	24.345
W	< LOD	:	111.507
Cu	< LOD	:	40.933
Ni	< LOD	:	78.947
Co	245.958	±	133.648
Fe	15895.267	±	451.752
Mn	500.415	±	121.269
Cr	252.787	±	35.490
V	317.465	±	51.558
Ti	1257.134	±	85.948
Sc	< LOD	:	55.537
Ca	5118.003	±	325.999
K	24871.975	±	831.996
S	< LOD	:	3151.807
Ba	1130.161	±	56.458
Cs	92.941	±	8.639
Te	129.596	±	25.095
Sb	< LOD	:	31.069
Sn	78.603	±	17.553
Cd	< LOD	:	12.245
Ag	< LOD	:	9.099
Pd	< LOD	:	4.982
Bal	934055.813	±	3351.730
Nb	13.078	±	6.221

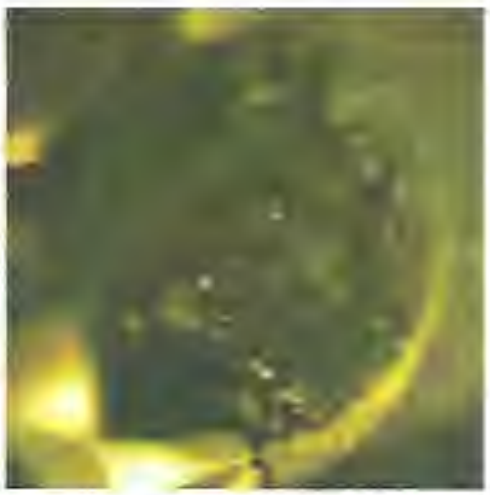
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Certificate of Verification

XL3t-34724

Reading No	1185
Mode	TestAll Geo
Time	2012-03-12 16:59
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 12
LOCATION	0567504 5328284
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	14.963
Zr	116.241	±	14.369
Sr	1894.006	±	120.224
U	< LOD	:	300000.000
Rb	< LOD	:	3.179
Th	< LOD	:	300000.000
Pb	< LOD	:	20.984
Se	< LOD	:	8.645
As	< LOD	:	11.625
Hg	< LOD	:	300000.000
Au	< LOD	:	300000.000
Zn	93.019	±	32.582
W	< LOD	:	151.132
Cu	< LOD	:	73.101
Ni	< LOD	:	116.190
Co	< LOD	:	523.527
Fe	57774.922	±	2200.856
Mn	3075.902	±	377.124
Cr	197.524	±	51.609
V	< LOD	:	112.840
Ti	2128.136	±	164.426
Sc	< LOD	:	292.666
Ca	113090.102	±	1551.476
K	2347.508	±	496.984
S	8218.016	±	3104.988
Ba	684.248	±	64.427
Cs	103.102	±	10.907
Te	185.477	±	32.363
Sb	< LOD	:	42.525
Sn	< LOD	:	44.511
Cd	< LOD	:	15.989
Ag	< LOD	:	13.314
Pd	< LOD	:	7.618
Bal	795890.625	±	8403.652
Nb	< LOD	:	11.111

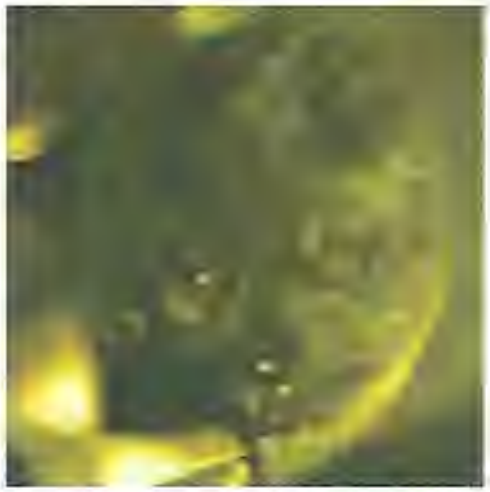
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XL3t-34724

Reading No	1186
Mode	TestAll Geo
Time	2012-03-12 17:02
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 12*2
LOCATION	0567504 5328284
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	< LOD	:	14.858
Zr	164.203	±	14.110
Sr	405.185	±	18.115
U	< LOD	:	18.776
Rb	< LOD	:	3.229
Th	15.729	±	9.958
Pb	29.365	±	14.161
Se	< LOD	:	7.186
As	< LOD	:	13.877
Hg	< LOD	:	17.708
Au	< LOD	:	12.290
Zn	103.190	±	27.964
W	< LOD	:	150.649
Cu	69.707	±	40.953
Ni	156.285	±	82.599
Co	< LOD	:	568.844
Fe	88570.109	±	1267.709
Mn	3912.446	±	370.337
Cr	1009.808	±	100.338
V	417.512	±	135.112
Ti	6881.639	±	341.263
Sc	< LOD	:	320.269
Ca	82974.688	±	1658.148
K	1516.931	±	560.000
S	< LOD	:	4609.410
Ba	761.173	±	65.147
Cs	117.874	±	11.000
Te	191.462	±	32.324
Sb	< LOD	:	38.428
Sn	< LOD	:	40.676
Cd	< LOD	:	14.802
Ag	< LOD	:	12.346
Pd	< LOD	:	6.276
Bal	817181.313	±	7335.292
Nb	< LOD	:	10.981

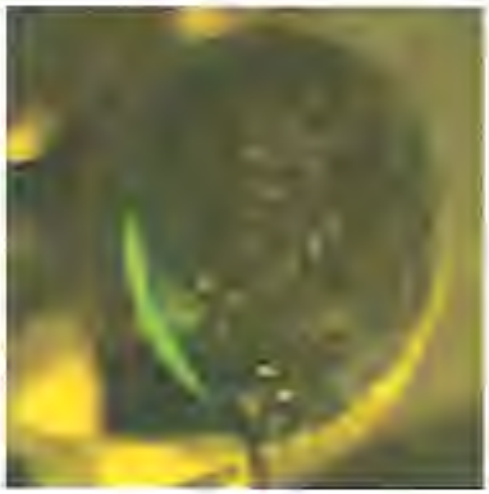
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Reading No	1187
Mode	TestAll Geo
Time	2012-03-12 17:07
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 13
LOCATION	0567901 5324293
INSPECTOR	
MISC	
NOTE	



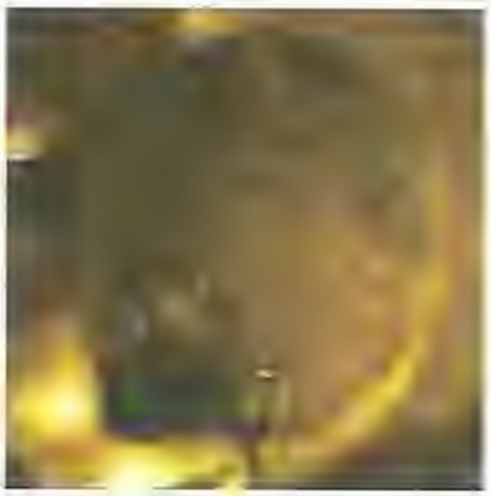
	ppm	±	Error
Mo	< LOD	:	9.575
Zr	108.630	±	11.247
Sr	523.039	±	17.534
U	< LOD	:	23.936
Rb	68.942	±	5.994
Th	< LOD	:	13.279
Pb	22.182	±	11.400
Se	< LOD	:	6.776
As	< LOD	:	10.995
Hg	< LOD	:	13.098
Au	< LOD	:	7.919
Zn	< LOD	:	21.736
W	< LOD	:	108.032
Cu	< LOD	:	41.033
Ni	< LOD	:	76.086
Co	< LOD	:	223.014
Fe	8335.251	±	334.637
Mn	176.270	±	86.043
Cr	< LOD	:	47.018
V	392.310	±	53.488
Ti	1600.839	±	95.990
Sc	< LOD	:	54.868
Ca	6193.076	±	302.095
K	21505.434	±	685.199
S	< LOD	:	1563.050
Ba	1296.919	±	58.856
Cs	84.615	±	8.685
Te	147.967	±	25.682
Sb	< LOD	:	34.843
Sn	< LOD	:	36.926
Cd	< LOD	:	14.361
Ag	< LOD	:	11.226
Pd	< LOD	:	7.166
Bal	938984.438	±	3449.514
Nb	17.077	±	6.780

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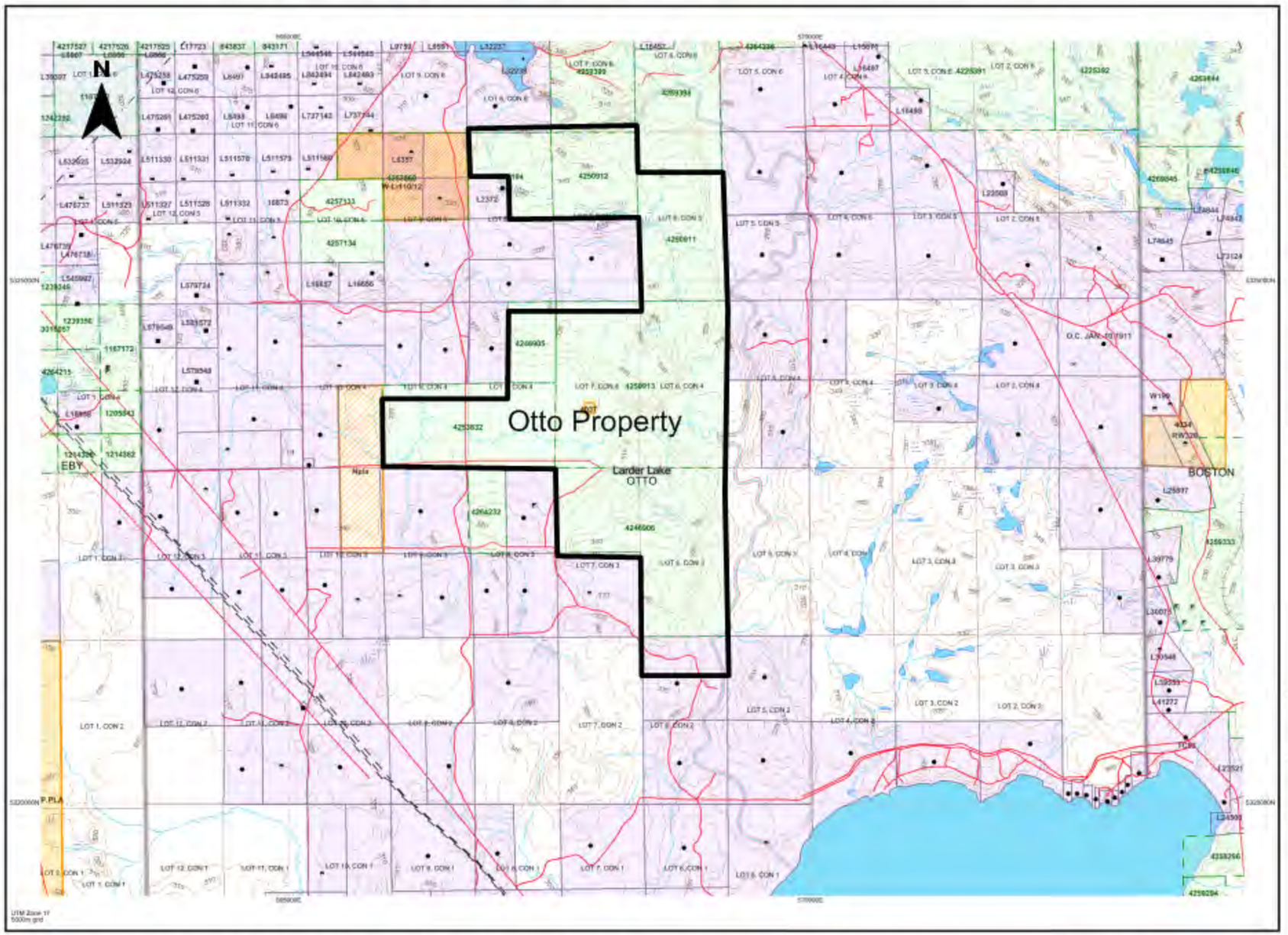
XL3t-34724

Reading No	1188
Mode	TestAll Geo
Time	2012-03-12 17:12
Duration	60.00
Units	ppm
Sigma Value	2
Sequence	Final
Flags	
SAMPLE	currah 14
LOCATION	0567380 5324308
INSPECTOR	
MISC	
NOTE	



	ppm	±	Error
Mo	12.848	±	8.331
Zr	71.154	±	9.502
Sr	530.892	±	19.036
U	< LOD	:	23.177
Rb	56.621	±	5.328
Th	34.547	±	11.051
Pb	43.113	±	13.604
Se	< LOD	:	4.838
As	< LOD	:	13.113
Hg	< LOD	:	12.446
Au	< LOD	:	9.588
Zn	34.067	±	16.603
W	< LOD	:	104.523
Cu	< LOD	:	39.033
Ni	< LOD	:	75.555
Co	< LOD	:	319.391
Fe	25975.414	±	581.608
Mn	516.558	±	129.465
Cr	171.422	±	39.098
V	403.284	±	60.688
Ti	704.141	±	73.568
Sc	< LOD	:	68.337
Ca	4607.274	±	379.303
K	27167.375	±	1021.595
S	< LOD	:	2519.938
Ba	1345.566	±	57.455
Cs	87.767	±	8.424
Te	140.622	±	24.748
Sb	< LOD	:	35.032
Sn	< LOD	:	36.757
Cd	< LOD	:	15.007
Ag	< LOD	:	9.292
Pd	< LOD	:	6.869
Bal	919820.500	±	4282.692
Nb	< LOD	:	9.370

Map 1: Overview of Regional Land Holdings



ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

Date / Time of Issue: Fri Jul 13 15:17:28 EDT 2012

TOWNSHIP / AREA	PLAN
OTTO	M-0379

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Larder Lake
Land Titles/Registry Division	TIMISKAMING
Ministry of Natural Resources District	KIRKLAND LAKE

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession Lot
- Provincial Park
- Indian Reserve
- Lot, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframes
- Railway
- Road
- Trail
- National 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
- Lake Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order in Council (title claim for scaling)
- Water Power Lease Agreement
- Mining Claim
- Fixed Only Mining Claims

LAND TENURE WITHDRAWALS

- 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

IMPORTANT NOTICES

Scale: 1:50,000

0m 1000m 2000m 3000m

LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
4834	Wsm	Jan 1, 2001	PENDING APPLICATION UNDER PUBLIC LANDS ACT (SURFACE RIGHTS)
4837	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
4107	Wsm	Jan 1, 2001	WASTE DISPOSAL SITE SEC 43
9005	Wsm	Jan 1, 2001	W1190 N.R. 25755 12/1/60 S.R.O.
P .PLA	Ws	Jan 23, 2002	Pending Application Sec. 30(b) and 28(2). Surface Rights Only.
P .PLA	Wsm	Jan 23, 2002	Pending Application Sec. 30(b) and 28(2). Surface Rights Only.
P.PLA	Ws	Jan 23, 2002	Pending Application Sec. 30(b) and 28(2). Surface Rights Only.
W-L-110/12	Wsm	Jul 11, 2012	<a href=" http://www.mndm.gov.on.ca/mines/lands/withreop/orders2012/wl110-12.pdf

IMPORTANT NOTICES

Areas under which special regulation, limitations or conditions exist that affect normal prospecting, staking and mineral development activities

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 realgational, 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/mlsmpage.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.

5328000 5327000 5326000 5325000 5324000 5323000 5322000 5321000 5320000 5319000 5318000

563000 564000 565000 566000 567000 568000 569000 570000 571000 572000 573000 574000 575000 576000 577000 578000



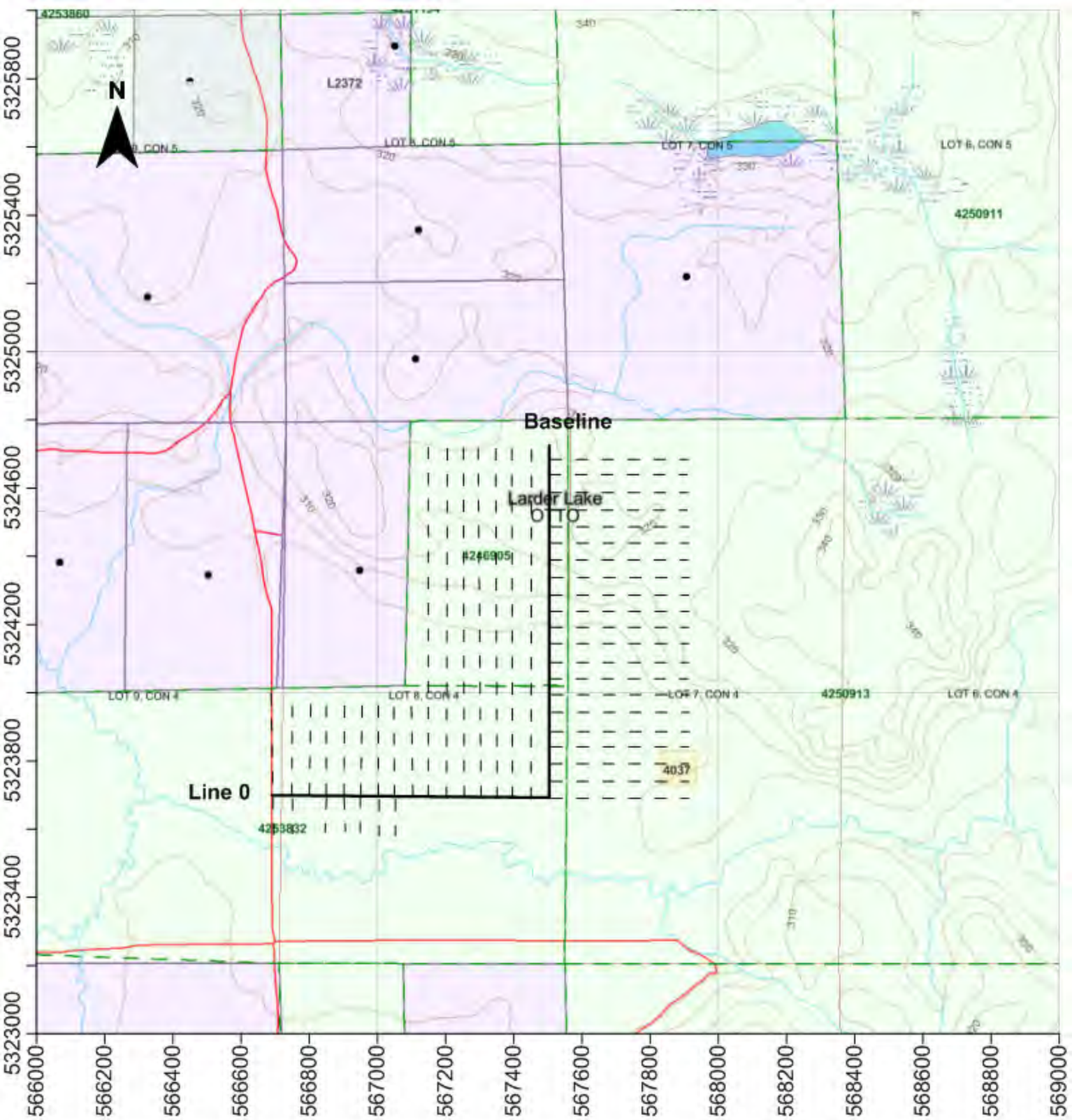
June 2011

Map 2

Otto Township Property

Timiskaming District, Ontario

Location Map



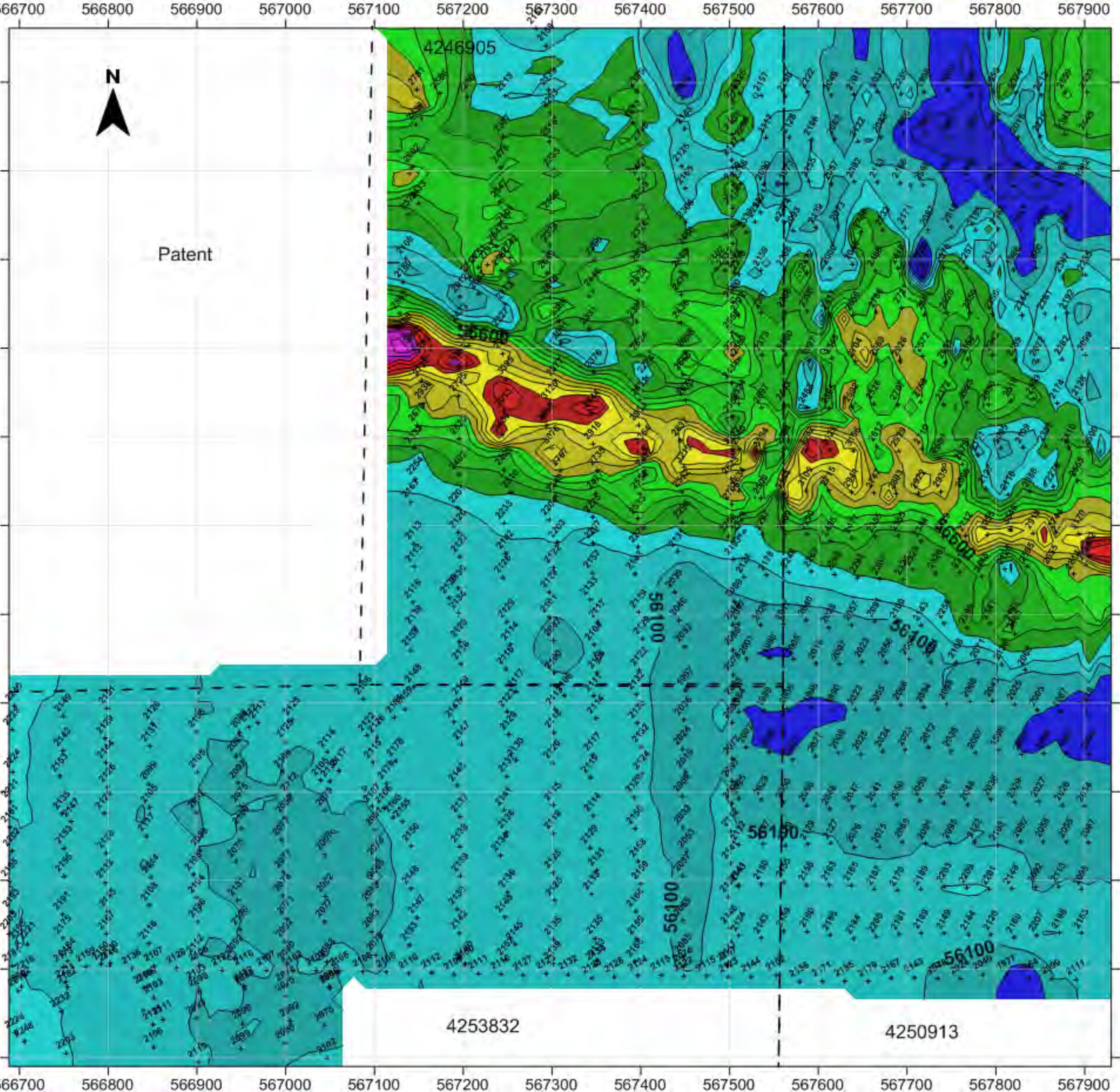
Ontario 2214098 Ltd.

Map 3: Grid Layout

Mining Division: Larder Lake
Township: Otto
Claims: 4246905, 4253832, 4250913
Date: March, 2012
Scale: 1:15,000
Map Datum: NAD83 Zone 17N (CSRS98)

Dashed Lines: Compass Traversed
Solid Lines: Cut Lines
Line Spacing: 50 meters
Baseline: 800 meters
0 Line: 1000 meters
0,0: 567500E, 5323687N

0m 500m 1000m 1500m 2000m



Ontario 2214098 Ltd.

Map 4: Total Magnetic Field Intensity Survey

Mining Division: Larder Lake
Township: Otto
Claims: 4246905, 4253832, 4250913

Surveyor: Drew Thompson
Instrument: Overhausser GSM-19 Magnometer
Date: March 2012
Kilometers: 20.8

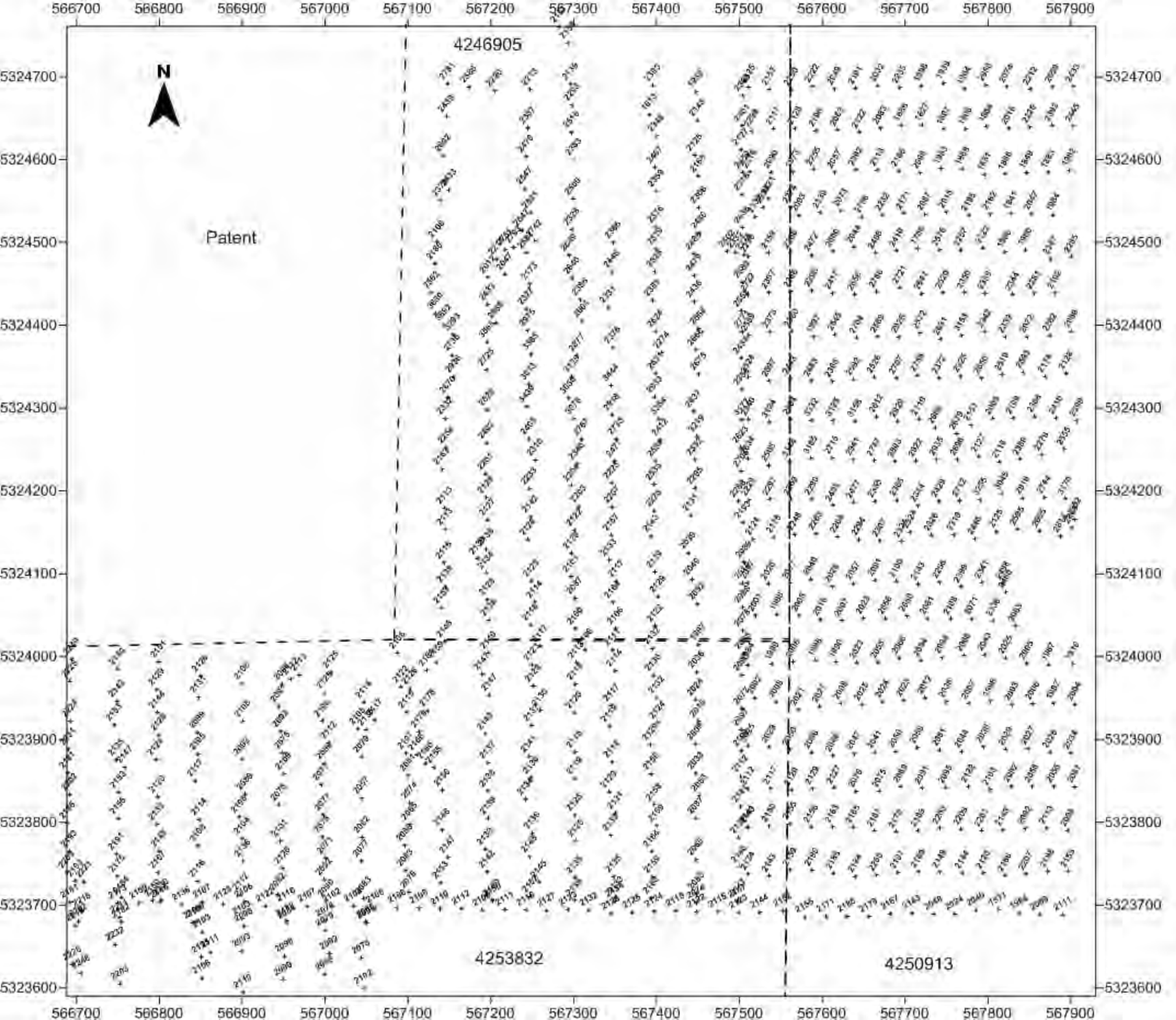
Legend

Magnetic Field Intensity in nano Tesla (nT)

57700
57600
57500
57400
57300
57200
57100
57000
56900
56800
56700
56600
56500
56400
56300
56200
56100
56000
55900
55800
55700
55600

Scale: 1:6,000
Map Datum: NAD83 Zone 17N (CSRS98)
Grey regions: Non-surveyed areas
Crosses: 25 meter interval stations derived from continous survey data; (54,000 nT subtracted from each measurement)
Contour Interval: 100 nT
Dashed Lines: Contour Boundaries

0m 100m 200m 300m 400m



Ontario 2214098 Ltd.

Map 5: Total Magnetic Field Intensity Survey

Mining Division: Larder Lake
Township: Otto
Claims: 4246905, 4253832, 4250913

Surveyor: Drew Thompson
Instrument: Overhausser GSM-19 Magnometer
Date: March 2012
Kilometers: 20.8

Legend

Magnetic Field Intensity in nano Tesla (nT)

57700
57600
57500
57400
57300
57200
57100
57000
56900
56800
56700
56600
56500
56400
56300
56200
56100
56000
55900
55800
55700
55600

Scale: 1:6,000
Map Datum: NAD83 Zone 17N (CSRS98)
Grey regions: Non-surveyed areas
Crosses: 25 meter interval stations derived from continous survey data (54,000 nT subtracted from each measurement)
Contour Interval: 100 nT
Dashed Lines: Contour Boundaries

0m 100m 200m 300m 400m

4246905

CON 4

LOT 7, CON 4

4250913

LOT 6, CON 4

4037

Larder Lake

OTTO

4246906

CON 3

LOT 7, CON 3

LOT 6, CON 3

N

330

340

310

320

350

Ontario 2214098 Ltd.	
Map 6: Geochemical Sample Locations	
Mining Division: Larder Lake Township: Otto Claims: 4246905, 4253832, 4250913, 4246906, 4240913	Scale: 1:5000 Datum: NAD83 Zone 17N

0m 100m 200m 300m 400m 500m