

2013 Technical
Exploration Report For The Jake Property
Kamloops M.D., B.C.

Title Page

BC Geological Survey
Assessment Report
34268

Property Name Jake

Mining Division Kamloops

Location NAD 83 Latitude 51 38 44, Longitude 120 13 27
 UTM 10 692037, 5725272

NTS Map Sheet 092P09E
 BCGS 092P069

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Report Year 2013

Claims worked on 518670, 519188, 521794

General Work
Categories Geological/Geochemical and Diamond Core Drilling

Work Done Preparation of new Compilation Map integrating past
 geophysical work, drill holes, and 2013 work. Follow up
 of old stream silt anomalous area. Geochemical sampling
 of Ah horizon in selected areas. Prospecting along new
 logging trails, and in other areas. 304.7 metres of core
 drilling in two drill holes

Pertinent related Assessment Reports 27936, 28808, 29711, 30941,
 31092, 32044, 32507, 33307

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Jake 2013 1:2000 scale Compilation Map showing chargeability anomalies, anomalous geochemical results from prospect pits and surface sampling, and 2013 core drill holes.

Relevant Chargeability sections

Introduction/Summary Geology/ History

The Jake Mineral Claim Group encompasses an area of approximately 4072 hectares. The property is located 13 kilometres west of the Village of Clearwater, and is easily accessible via the major logging road, Route 2, and a network of subsidiary roads. The claim area, which occupies part of the northern Nehalliston Plateau within the Mann Creek drainage system, is generally characterized by moderate topography, and has recently been extensively logged because of pine beetle infestation. This activity is continuing at present.

The known prospective area is covered by glacial overburden generally from a few to + five metres thick and is thus almost totally devoid of surface outcrop. The most notable known geological feature of the area is the northwesterly trending Lemieux Creek fault, which passes through the property approximately one kilometre west of the Jake discovery showing. This fault is considered to be a major terrane bounding structure separating the Upper Paleozoic Fennel Formation (Slide Mountain Terrane) to the east from Triassic Nicola Group argillites (Quesnel Terrane) on its west side. The area is believed to be underlain by Pennsylvanian-Permian Fennel Volcanics, predominantly basaltic, but with some more felsic units, which could be intrusive. Some of the “basaltic” rock encountered in a few prospect pits has fine crystal texture, suggesting that it might be diorite. In places along Mann Creek and on the slope to the north, there is a thin layer of Pleistocene volcanics covering the Fennel rocks. Local magnetic highs detected by a ground magnetometer survey suggests that small intrusive bodies might underlie portions of the property. Significant mineralization remained unknown until 2005 when I encountered a heavy sulfide gossan which had been recently exposed along a steep bank by logging road construction. Samples from this showing were highly anomalous in gold (up to 27 g/t), along with bismuth and copper. Subsequent prospecting over a larger area encountered anomalous mineralized float in other areas up to more than one kilometre away from the Jake discovery. No significant mineralized zones have thus far been found in the Nicola argillites, but there is considerable alteration in places close to the Lemieux Creek Fault, consisting of pyrite bearing quartz vein networks. Shortly after the discovery the original claims were optioned by

Rimfire Minerals Corp., which then staked a large area around the original holding. During 2006 Rimfire conducted VLF EM and a magnetic survey over the showing and surrounding area and, did some excavator trenching along the showing. This was followed by extensive silt sampling and limited float and soils sampling over the whole large area staked. During 2007, Rimfire, joined by Island Arc Exploration, conducted limited IP surveys, excavator trenching across the discovery showing and across a few portions of IP anomalies, and 1,083 metres of core drilling in seven holes, which tested the discovery showing and some anomalous IP areas indicated by filtered interpretation. As the drilling intersected significant mineralization/alteration, and IP appeared to be effective, during 2008 the joint venture expanded the IP coverage with an additional 21 line kilometres of survey. The 2008 survey found many more anomalous areas, some of them extensive and strong. The joint venture intended to follow up in 2009 by drilling seven additional selected sites, but by late 2008 economic conditions forced Island Arc to leave the project. Then, a subsequent merger caused Rimfire to restructure. Rimfire in 2009 returned my original claims and a large perimeter area to me. During 2009 I hired Scott Geophysics to extend the previous IP work where it appeared that chargeability anomalies might still be open. The new geophysical work was successful in expanding some of the previously detected anomalies, and discovering additional anomalies in prospective areas. Further sampling detected small amounts of highly anomalous gold in float over one portion of what Rimfire called the Km 14 Anomaly, so designated because of its location in proximity to the Km 14 post on Road 2*. During 2010, I carried out experimental surface geochemical surveys over some of the strong IP anomalies detected during the 2008 survey. This work found anomalous gold both in float and soils samples over portions of the Km 14 Anomaly, but no definitive pattern was established.

During 2011 and 2012, after a detailed study was made of all past geochemical surveys and all geophysical surveys, numerous sites were selected for excavator pits to explore favourable anomalous areas. A cat-mounted excavator was used to dig 35 prospect pits mainly over areas where the 2008 IP survey had detected strong chargeability anomalies. The pits were roughly 2.5 metres square, and were dug as deep as the equipment could reach, generally about 4.7 metres. I believe that broken mineralized bedrock, some consisting of gossan cap rock, was definitely

found at the bottoms of two of the pits, and in two other pits we found similar gossan cap rock boulders at the very bottoms of the pits, all within a 200 metre portion along the trend of the Km 14 Anomaly. Assay samples were taken of this bedrock and cap rock. Where we did not reach bedrock we took assay samples of boulders at the bottoms of the pits, and assay samples of deep soils were taken from the bottoms of all pits. A definite gold anomaly was established both by deep rock and soils samples over 300 metres strike length within the above described Km 14 Anomaly. The nature of the overburden encountered in all pits is boulder clay, which is rigid enough so that the material stands up rather than caving. In many of the pits water was encountered near the pit bottoms, and in one, there was heavy water flow at relatively shallow depth. A detailed interpretation of the combined 2011 and 2012 excavator prospecting is provided in 2012 Assessment Report 33307.

* Note: Accompanying this report is a 2008 1:5000 scale IP map created by Rimfire, which shows outlines of the numbered IP anomalies. Also it shows the 2007 drill holes, and suggested 2008 holes, never drilled.

Summary of Geophysical Surveys conducted

All of the geophysical work done on the property to date was carried out by Scott Geophysics Ltd. of Vancouver. Two very extensive, northerly trending VLF EM anomalies were detected by Rimfire during 2006. 2007 Drill testing within the western anomaly failed to indicate any definitive cause for the conductor. Three prominent magnetic highs were detected by the 2007 and 2009 surveys. These highs are located respectively in the east-central portion of the surveyed area, in the central portion of the surveyed area, just south of the Jake discovery showing, and in the west part of the surveyed area, along the Lemieux Creek fault. None of these high areas have been drill tested. IP work was initiated in 2007 with a limited survey around the Jake discovery area. A more extensive survey was conducted during 2008, and further follow up of the 2008 work was done during 2009. Both the Rimfire 2007 and 2008 IP surveys incorporated 25 metre electrode spreads allowing maximum depth penetration of approximately 50 metres. Immediately after completion of the 2007 survey, Rimfire

conducted limited core drilling at the Jake showing area and along its projected trend. These drill holes were all selected by filtered interpretation of the 2007 IP data. After completion of the more extensive 2008 IP survey, both the 2007 and 2008 surveys were subjected to both filtered and inverted interpretations. The 2009 survey, the purpose of which was to extend the 2008 survey westward, incorporated 50 metre electrode spreads, increasing penetration to approximately 100 metres depth. The main anomalies detected by the 2007-2008 IP surveys are designated and outlined on the Roberts 2008 Rimfire map cited above, as KM 14, Road 840, Road 2, Jake Vein, KM 12, and Road 131. With the exception of the KM 12 anomaly, and western portions of the KM 14 anomaly, the chargeability anomalies are at least partially evident on the upper 20 metre depth slice through to the deeper slices on the inverted interpretation maps. The geophysical anomalies will be discussed below in relation to mineral occurrences.

Exploration Results 2006-2012

A very detailed summary of all property work through 2009 can be found in my 2009 assessment report (#31092). Also, excellent comprehensive geological, geochemical and geophysical reports covering The Rimfire/Island Arc work from 2006 through 2008, prepared by Rimfire geologist Michael Roberts, PhD are available for download from the B. C. Ministry of Mines and Petroleum Resources assessment Aris Files.

Summary Geology of Gold Occurrences

Only two small outcrops have been found within the whole, approximately five by two kilometres, known prospective area of the Jake Claim Group. Several modes of alteration/mineralization have thus been found on the Jake Property, all in volcanic formations, evidenced by bedrock encountered in excavations or core holes, or by float samples. These include narrow shear zones containing massive sulfides with high grade gold values found in excavations and core, wider alteration zones containing variable combinations of sericite-clay-carbonate-silica-biotite-chlorite-tremolite-epidote with associated elevated sulfides found in core, minor float containing quartz with free gold and bismuthinite, and float and core

containing disseminated sulfides with anomalous gold. The dominant sulfides found thus far are pyrrhotite, pyrite and chalcopyrite with lesser bismuthinite, and arsenopyrite. Small amounts of massive sulfide float at one locality, downslope from the Km 14 Anomaly contain anomalous cobalt along with gold, copper and bismuth. Scattered weakly anomalous cobalt also shows up in trench and core samples.

Gold Occurrences in the “Jake Corridor”

The “Jake Corridor” refers to a relatively narrow zone within the total prospective area where the 2007 drilling was conducted, extending from the Jake discovery showing north-northwestward for over 500 metres. The Jake discovery showing has been revealed by trenching and drilling to be a NNW striking, steep southwest dipping mineralized shear zone approximately 2 metres wide at surface consisting of a chloritic envelope which encloses massive sulfides, mainly pyrrhotite, associated with quartz veining. A 1.8 metre channel sample across the structure exposed by Trench 2 assayed 9.05 ppm Au along with significant Cu and Bi, including one .6 metre sample assaying 19.3 ppm Au. Hole 07- 4 drilled to intersect the mineralized zone at depth, thirty metres northwest of Trench 2, encountered the probable downdip extension of this shear zone approximately 35 vertical metres below the trench level sample. It assayed 11.34 ppm Au over 1.5 metres, including .6 metre grading 27.8 ppm Au. Hole 07-5, drilled in the same direction from the same site as 4 at a steeper angle, cut a narrow fissure hosting similar mineralization at about 47 vertical metres below the trench level, and another hole, 07-6, drilled in the dip direction of the structure, about 15 metres north of 4 and 5, intersected a similar mineralized fissure at depth, which appears to be slightly off trend to the west from the zone delineated between Trench 2 and DDH 4 and 5. Aside from the above cited intercepts, only two thin anomalous gold intercepts were noted; one near the bottom of DDH 5, and the other near the bottom of DDH 6. The former is associated with a brecciated zone with elevated sulfide content, and the latter with quartz-calcite veining. The extensive, predominantly basalt sections intersected between the anomalous gold intercepts show only minor sulfides, and no anomalous values. The Jake shear zone, over the 30 metre strike length sampled, appears to be a high grade shoot within an ongoing structure. The structure is open and untested along strike and at depth, and the shoot itself may be open to the

south

The IP filtered interpretation at the Trench 2 discovery showing indicates a one station moderate chargeability anomaly, while the inverted response indicates a tiny blip of a surface anomaly with a stronger response at 50 metre depth. While the chargeability anomaly cuts off to the north beyond the Jake showing, it continues to the southeast for 300 metres, where it is coincident with a magnetic high beginning at about 50 metres southeast of the Jake showing. Two other, magnetic highs are found over a distance of 350 metres to the west of the southeasterly trending magnetic high coincident with the Jake IP anomaly. The immediate westerly of these highs is not coincident with an IP anomaly, while the furthest west high partially coincides with a possible weak chargeability anomaly, but is mostly out of IP coverage. (Geophysical surveys immediately north of this latter anomaly were blocked by a small, circular shaped pond filled depression, approximately 100 metres in diameter, which might represent an underlying intrusive plug). It is possible that the southeasterly trending coincident mag/IP anomaly represents a strike extension of the Jake Discovery showing. The two, somewhat circular shaped, more westerly anomalies might be indicative of intrusive plugs, and the most westerly one could be sulfide bearing.

Mineralized zones somewhat similar to the Jake Showing were encountered along the "Jake Corridor" approximately 300 metres NNW of it in Trench 4, and 500 metres to the NNW of it in DDH 07-7. In between areas have not been tested, nor has there been any work south of the Jake discovery area. The Trench 4 showings are narrow fissures found 15 metres apart. A grab sample of one of these fissures assayed 12.5 ppm Au. An intersection at 43 metres depth in hole 7, which averaged 1.0 ppm Au over 2.5 metres, including .2 metre of 9.49 ppm Au, appears similar to the Jake Showing. Deeper in Hole 7 (at 167 metres) is another altered section containing anomalous gold associated with sulfide veinlets below a bleached sericite-clay-carbonate altered shear zone. While there is sporadic anomalous arsenic associated with gold in the other holes, there is strong arsenic with the gold in the upper intersection of Hole 7. Drill holes 07-2, 3, 7 and 8 were all designed to test areas of moderate to strong IP response generally associated with high resistivities. Other than the above mentioned intercepts in hole 7, holes 2, 3 and 8 cut sporadic anomalous gold and copper, the

highest gold being .693 ppm Au over one metre in hole 3, a similar vein-type occurrence to the Jake Showing, and the upper Hole 7 intersection. Deep in Hole 3, anomalous gold was found associated with a bleached silica-sericite-carbonate altered shear zone. In regard to sulfide content, generally logs of these holes indicate only minor amounts of disseminated sulfides, with limited intercepts of more altered zones containing relatively high sulfides in veinlets and disseminations.

The 2007 drilling was based on filtered interpretation of the limited 2007 IP survey. On reviewing the 2008 survey inverted interpretation, it is evident that some of the 2007 holes might not have been oriented toward the best IP targets. The near surface IP response at the immediate Jake showing area is unimpressive, the inverted interpretation showing only a tiny blip of an anomaly. This picture conforms to what we have seen in the trenching and drilling to date. However, there are stronger chargeability zones at depth., which might not have been reached by the drilling. Moving northward, Hole 2 was collared too far east to intersect a deep, strong anomaly roughly underlying the above cited 12.5 ppm Au bearing fissure, and Hole 3 might have missed a deep anomaly under the above cited .693 ppm Au intercept. And Hole 7 appears to be slightly off location to intersect a deep, strong anomaly indicated on 2007 Line 90500N.

An overview of the “Jake Corridor” mineralization is as follows. The Jake discovery shear zone, where drilled, appears to narrow to a thin fissure at about 47 metres depth, but it may be open along strike to the southeast, as is evidenced by the coincident IP/mag anomaly. And there is IP chargeability evidence in the form of deep anomalies that these fissures might at depth emerge into wider, strong sulfide zones. Strong, deep IP anomalies occur under the Jake discovery, under the Trench 4 fissures mentioned above, and in a 100 metre long anomaly about 200 metres northeast of the Jake showing.

Discussion of 2011-2012 Excavator Work

Note: More detailed description of the 2011 work is available in 2011 assessment report 32507.

In total, 35 excavator pits were dug to prospect IP anomalies designated as KM 14, KM 12 Zone A, Road 2 and Road 131. Generally, the pits targeted

chargeability peaks on specific IP lines, but in some cases they were located between IP lines. Most of the work concentrated on the KM 14 anomaly, where we had limited success in reaching bedrock. The glacial overburden on the property is classified as terminal moraine by government scientists. In practical terms, we are dealing mostly with boulder clay, with rock content ranging in size from small stones to boulders larger than pickup truck beds. The average boulder would approximate about half the size as a basketball.

In regard to statistical research pertaining to soils testing, the only relevant information available is from Rimfire's 2006 work where they analyzed hundreds of soils samples mostly taken from less than one metre depth from the immediate Jake discovery area and "Jake Corridor." Their threshold and anomalous values were quite low. Ninetieth percentiles were 13 ppb for gold, .62 ppm for bismuth, 30 ppm for arsenic and 105 ppm for copper. Based upon my experience working with gold deposits, I have arbitrarily established a gold threshold at 20 ppb, and anomalous conditions at 40 ppb. I have found that +40 ppb gold values, even in bedrock, often occur in proximity to known gold deposits.

Excavator Work over Km 14 IP Anomaly

Probable bedrock was reached in only two pits (#6 and 13). Pit # 6, dug over a moderately anomalous chargeability area with stronger response at depth, encountered broken, silicified basaltic or dioritic rock which is estimated to contain + 2% disseminated sulfides. Its assay indicated anomalous copper, but only elevated gold. Pit 13, which is located about 50 metres south of a strong chargeability anomaly detected at 25800N at approximately 91200E, dug up broken, highly leached, clay-like gossan capping from about 3 metres depth to the pit bottom at 4.7 metres, along with minor basaltic rock containing estimated + 3% disseminated sulfides. The gossan contains minor quartz? veinlets with disseminated tarnished sulfides. I would estimate that the gossan represents >5% sulfide content. Individual boulders of similar clay-like gossan material, perhaps representing stronger sulfide content, were found at the bottoms of Pits 14 and 16, located respectively approximately 50 metres south and 120 metres southeast from Pit 13. Samples of this gossan material all contained anomalous gold (up to .47 ppm Au at Pit 16), along with anomalous

bismuth, copper and sporadic arsenic. The clay-like gossan exposed here appears very similar to the small amount of surface float rock found near Pit 5, located approximately 225 metres southeast of Pit 13, which assayed 2.6 g/t gold. Also, near Pit 5, we have found small amounts of silicified basalt containing disseminated sulfides, which assays 3.1 g/t Au.

In all of the other pits where no bedrock was found, samples of boulders from the pit bottoms were taken for assay, as well as bottom soils. The boulders were basalt or possibly fine grained diorite, most of which contained minor to no discernable disseminated sulfides, not likely to be indicative of underlying high chargeability responses. Most of these boulders are non-anomalous in gold, with a few exceptions. The boulders found at the bottoms of Pits 1, 3, 5 and 22 contained weakly anomalous gold in the range of 66 to 100ppb. In all cases the anomalous boulders contained discernable sulfides, estimated to be as high as 5% in Pit 22, which contained anomalous copper along with weakly anomalous gold. From work to date, it is evident that there is a significant gold anomaly, indicated particularly by deep soils samples, along a 300 metre strike length over this portion of the Km 14 chargeability anomaly. The soils gold anomaly is accompanied by lesser magnitude bismuth and copper, with a limited area containing anomalous arsenic (refer to 2012 1:2000 scale contour maps). Our very limited look at this anomaly suggests that it is caused by basaltic volcanic formations, and possibly fine grained diorite, containing disseminated and fracture controlled sulfides with detectable to weakly anomalous gold, which has been cut by higher sulfide-bearing fault/fracture zones of unknown size and orientation, which contain higher gold values. As our prospect pits are generally widely spaced, and the strong chargeability anomaly is very extensive, our excavator prospecting provides only a cursory testing. Particularly, in the northwest part of the work area, from IP lines 25800N to 26000N, the IP sections indicate very strong, deep chargeability anomalies to the west of our anomalous deep soils at Pits 27 and 30. Moreover, we have never carried out IP further west along these northern lines, and the northernmost line (25600N), which was extended westward, indicated that the KM 14 IP Anomaly continues for considerable distance farther west from where the 2008 Rimfire survey ended.

The 2009 IP survey, which incorporated 50 metre spreads, indicates that

the western extension of the KM 14 Anomaly is not found on the 20 metre slice, but is strong at both the 50 metre and 100 metre depth levels. I believe that a layer of Pleistocene post mineral volcanics might overlie the pre-mineral formations in this area.

Excavator Work On Other Anomalies

In regard to the other extensive strong IP anomalies (Road 2 and Road 131), I don't believe that our limited excavator work reached the underlying strong chargeability sources indicated by the IP survey. Deep soils samples from the Road 131 IP Anomaly do show weakly anomalous arsenic and weakly detectable gold, but I would guess that bedrock in these localities might be at least several metres deeper than the pit bottoms.. Certainly, boulders found at the pit bottoms here do not appear to be representative of the indicated strong, underlying chargeability response. In regard to the KM 12 Zone A IP Anomaly, this broad and strong chargeability response is evident only at 50 metres depth in the inverted interpretation. It is adjacent to and partially contiguous with a strong magnetic anomaly cited above in the central east part of the area surveyed. I would guess that the magnetic anomaly is likely caused by an intrusive body, and the interpreted chargeability response is overlain by pre-mineral bedrock as well as overburden. Possibly, we could be looking at a buried zone of contact type mineralization. It is doubtful that our Pits # 33-35 reached near bedrock, but elevated gold (34 ppb) was found in soils at the bottom of Pit 35. At the only pit dug in the "Jake Corridor (#9), located about 175 metres northeast of the Jake discovery, anomalous arsenic found in soils/muck at the bottom might be of interest. Underlying this locality is a moderate strength IP anomaly, which is part of an extensive anomaly with a deep, strong chargeability core located approximately 40 metres to the east. The core portion of the anomaly is uphill from the pit area, with underground water flowing from the uphill area toward the pit, and further west to a nearby creek. So the arsenic anomaly might be originating from the core peak of the chargeability anomaly.

2013 Work

Prospecting/ Follow Up Sampling:

A limited effort involved following up previously detected, silt anomalies in outlying areas of the Jake Claim Group, and prospecting along new logging roads. Follow up sampling of creek-silt Au anomalies found by Rimfire in 2006 was negative. Limited follow up of a GSC soil Mo anomaly found in the southern part of the claim area did detect anomalous Mo. Soil sample J13S001, taken near the government sample, indicated 53 ppm Mo, along with anomalous Zn, and elevated rare earth elements (Ce, Nd, Y and La). A nearby rock-float sample J13R002, contained elevated Mo, high Sr and slightly elevated Y.

Prospecting yielded only a very sparse amount of apparently mineralized rock float in one area. Sample MK 13-4, located at (Zone 10, NAD 83, 0692227E, 5725715N), assayed 252 ppm bismuth and 179 ppm Cu, with no other significant values. The float material was comprised of spongy textured gossan. This sample is of possible interest as it is located roughly over the trend of The Rimfire designated Road 840E IP anomaly, which appears to be an extension of the Road 2 anomaly. As well, the silt sample collected by Rimfire from the creek draining this area is anomalous in Cu and Bi. Anomalous bismuth and copper are consistently associated with anomalous gold in all of our trenches and drill holes.

Ah Horizon Soils Sampling.

Note: Sample lines are shown on the accompanying 1:5000 and 1:2000 scale maps. The east-west sample lines were run respectively at GPS NAD 83 5725850N, 5725750N and 5724900N

Three experimental lines including 26 samples at 50 metre spacing were sampled. Two of the lines were over the northern portion of the designated. Km 14 IP anomaly, and one line was run over the Jake Discovery Showing area. Samples were of shallow organic material. The samples taken over the Km 14 anomaly were negative for all tested elements, except possibly for Hg. The Jake showing line was also negative for all elements, except for

one sample (023) in close proximity to the Jake showing, which contained elevated Bi and Hg, and one elevated Hg value (sample 019) at the west end of the line.

The elevated Hg assays might or might not be significant. In reviewing all of the past work, elevated or anomalous Hg often is seen with high gold in core and trench samples, but not always. The Ah samples were assayed by ACTLABS, which gives a sensitive ppb analysis for Hg, whereas other assays were done by Acme and ALS, which give probably less accurate ppm results. Most of the Ah samples contained <10 ppb Hg. I have designated elevated values as those over 30 ppb. The strongest Hg assays are found on Line 25850N, two of them over or close to very strong underlying chargeability anomalies. One of the samples (005) is close to a deep soils gold anomaly found at Pit 27. It should be noted that the IP survey was terminated just west of the westernmost high chargeability response on Line 25850N.

2013 Core Drilling:

Two holes totaling 304.7 metres of NQ core were completed by contractor Paycore Enterprises Ltd., using a Discovery II track mounted drill. The purpose of the drilling was to make a preliminary test of the north central portion of the Km 14 IP anomaly, where we had previously discovered a deep soils gold anomaly and some anomalous float from the bottoms of excavator prospect pits. The cores were spot assayed by a total of 50 samples, as shown on the accompanying logs. In the discussion below, elevated gold values refer to .02 ppm to .04 ppm, weakly anomalous values from .04 to .1 ppm, and anomalous values > .1 ppm.

Hole DDH 13-1:

This hole, collared at NAD 83 5725700N, 0691418E, was drilled at minus 50 degrees at azimuth 90 degrees, to a depth of 102.18 metres, to test a 100 metre wide, +25 mV/V chargeability anomaly following IP line 25700N. After 1.9 metres of overburden, the hole encountered basalt throughout its length, which was frequently altered to epidote/carbonate, with sporadic quartz veinlets. Only very minor, scattered amounts of disseminated metal sulfides were noted along with sparse sulfides in some quartz veinlets. Only

one weakly anomalous gold intercept was found (.057ppm at 96 to 97 metres down the hole).

I would have expected that a chargeability anomaly of this magnitude, which appears as a rather uniform layer on the inverted section, to represent consistent, easily discernable metallic sulfides. Unfortunately, the sporadic and very minor metallic sulfides encountered in the core cannot explain the chargeability anomaly, nor is there any other apparent cause. In checking with the geophysical contractor, the hole is properly located to test the anomaly, so the cause remains a mystery.

Hole DDH 13-2:

This hole, which was collared at NAD 83 5725800N, 0691394E, was drilled at minus 50 degrees at azimuth 340 degrees to 202.52 metres depth. This site was located between east-west IP lines but was collared very close to Prospect Pit 13, where mineralized bedrock had been dug up. The direction followed the interpreted planar long axis of the KM 14 IP anomaly, and was designed to test between IP lines. It did, however, at depth, cross IP Line 25850N close to a strong chargeability anomaly. From about 1 to 3.05 metres depth, the drillers reported soft, clay-like material, which they could not recover. From 3.05 metres to the bottom of the hole, basalt with variable textures was encountered. There were frequent broken zones, some with fault gouge and slickensides, and frequent zones of quartz and/or carbonate veining. Though metallic sulfide content was not overly high, frequent zones of easily discernable pyrite and/or pyrrhotite, often associated with silicification or quartz or carbonate veining were noted. A number of intervals indicate elevated to anomalous gold. The highest assays were found at 12-14 metres (av. .25 ppm Au), and at 96.5-97.2 metres (.329 ppm Au). The former was associated with subtle silicification accompanied by weak disseminated sulfides, along with quartz veining, while the latter occurred in a zone of quartz veining and thin sulfide veinlets. Weakly anomalous gold was noted at 115-116 metres and 134.9-135.9 metres, while elevated gold values were noted at 15-18 metres, 23-24 metres and 113.8-115 metres. A zone of anomalous arsenic, with no other significant values, was encountered at 176.15-179.4 metres. Generally, the higher gold assays were accompanied by elevated bismuth and copper, with or without arsenic.

When one combines the anomalous Au zone from 12-14 metres depth with the underlying 15-18 metres of elevated values, there is a reasonable zone width. The overlying clay-like material at the top of the hole, which could not be recovered, would also likely be anomalous, as at nearby Pit 13. The intercept of .329 ppm Au at 96.5-97.2 metres was only a spot sample, and additional sampling immediately above and below would be worthwhile.

Conclusions

Evaluation of the KM 14 IP Anomaly:

As this is a very extensive IP anomaly, it cannot be evaluated by just two drill holes, but the results of DDH 13-1 create uncertainty about its validity. Possible causes other than discernable metallic sulfides suggested by the geophysicist are magnetite or serpentine, neither of which are evident. There is always, of course, the possibility of faulty survey readings, which, if so, hopefully are not repeated on other survey lines.

The results of DDH 13-2 appear more compatible with a metallic-sulfide-caused chargeability anomaly. The hole crosses the survey line directions, and the only line it intersects is Line 25800N (which is actually located at 25850N). The highest grade gold intercept we cut in our drill holes (.329 ppm) projects to be in proximity to the easternmost of two +40 mV/V chargeability anomalies 50 metres apart. It is probably a short distance west and north of the anomaly, and below the effective depth of the IP survey.

In viewing the filtered sections of the IP survey, Line 25700N, along which Hole 1 was drilled, and Line 25800N, which Hole 2 crossed, appear quite similar, except that the chargeability anomaly on Line 25800N is stronger. However, on the inverted interpretation, the anomaly on Line 25700N appears as one wide, layered interval averaging + 25mV/V, while on Line 25800N, there are two separate, narrower + 40 mV/V anomalies, as described above.

The results of DDH 13-1 put into question not only the IP results, but also

the source area of the deep soils and rock sample assays taken from nearby prospect pits. The soils assays from the nearby pits are generally anomalous in gold, while the DDH 13-1 core assays are very weak. A rock sample from a large, clay-like gossanous boulder found at the bottom of nearby Pit 16 assayed .47 ppm Au. Nothing resembling this was seen in the Hole 1 core, though similar material was dug up in Pits 13 and 14 to the northwest. I believe that the deep soils and boulder assays are valid, and the likely explanation for the lack of significant assays in Hole 1 is that the source of the anomalous soils and boulders is elsewhere, probably to the northwest. The narrow 100 ppb Au soils contour delineated by Pits 13, 14 and 27 is validated by the results of DDH 13-2, and may be open to the west of Pit 27. At this point, we do not know the source of the highest grade float rock thus far found within the KM 14 IP anomaly (the 2.6 and 3.1 ppm Au rock found near Pit 5 on Line 5725600N). There is a strong IP anomaly here, but Pit 5, encountered only weakly anomalous deep soil and rock float.

With current information, we do not know the orientations or true extents of the encountered anomalous zones. Based on element association (Au-Bi-Cu with or without As), the anomalous zones found within the KM 14 Anomaly are consistent with what has been found in the Jake Corridor, but we have not yet found any massive sulfide showings in the KM 14 Area. In the Jake Corridor, we have thus far found that the best gold grades are associated with high metallic sulfide content. However, the chargeability anomalies associated with these high sulfide occurrences are unimpressive, probably because they are narrow. Possibly, some of the very high chargeability anomalies found over relatively narrow widths on portions of Lines 25600N, 25800N and 26000N within the KM 14 Anomaly might be indicative of high metallic sulfide content with associated gold.

Further Suggested Exploration

An extensive totally overburden-covered area with no effective exploration coverage remains to the west of IP lines 25700N to 26000N. It would be worthwhile at some time to extend IP coverage into this area, accompanied by reconnaissance soils sampling. However, we have a large number of undrilled targets based on completed geophysical coverage, so drilling of

these targets would be first priority. The principal drill targets are in the northern portion of the KM 14 IP Anomaly, the Road 2 IP Anomaly, and the Jake Discovery IP/mag Anomaly, south of the 2007 drill holes 4 and 5. Specific drill site recommendations are given below.

Km 14 IP Anomaly

IP Line 25800N, Sta. 91150E; GPS NAD 83 5725847N, 0691333E. Steep angle hole Azimuth. 270 degrees, to test chargeability peak.

IP Line 25800N, Sta. 91225E: GPS NAD 83 5725848N, 069148E. Steep angle hole Azimuth 270 degrees to test chargeability peak under Pit 27 where deep soils tested anomalous in gold, bismuth and copper.

IP Line 25600N Sta. 91400E: GPS NAD 83 5725599N, 0691581E. Steep angle hole Azimuth 90 degrees to test chargeability peak.

Road 2 Anomaly

IP Line 25000N Sta. 92350

GPS NAD 83 5724499N, 0692495E. Azimuth 90 degrees, -50 degrees. to test deep, strong anomaly under Sta. 9400E.

A hole close by was suggested by Mike Roberts in Rimfiire's 2008 report (Hole 08-7). The +500 metre long Road 2 anomaly, which is located 300 to 400 metres to the east of, and roughly parallel to the "Jake Corridor" anomalies, appears very similar to "Jake Corridor" anomalies, but is stronger and continuous, and occurs along a recognized major fault zone.

Jake Discovery Area

IP/Mag anomaly approximately 100 metres southeast of 2007 Holes 4 and 5. Line 89900N, Station 60000E, Approx. GPS NAD 83 5724799N, 0692153E Azimuth NE, - 50 degrees. To test coincidental chargeability and magnetic high on trend with the Jake Discovery structure. Suggested by Mike Roberts in Rimfire's 2008 report, and shown as DDH 08-1 on the accompanying 1:5000 scale compilation map.

Road 131 Anomaly

IP Line 24400N, at 92825E

GPS NAD 83 5724402N, 0692971E

Azimuth 90 degrees -60 degrees. To test deep, strong chargeabilities under Stations 92850 to 92900. The Road 131 anomaly is a very extensive and very strong chargeability high, which appears to be bounded to the east by a major fault.

Other IP Anomalies

There are many other good, established IP drill targets. A long list selected by myself and geophysicist, Alan Scott was included in my 2010 assessment report (# 32044). A priority would be a hole to test the deep KM 12 Zone A IP response partially coincident with the magnetic anomaly (also refer to Rimfire 1:5000 scale map cited above, DDH 08-6).

M. A. Kaufman, Geologist, P.Eng.

Michael S. Cathro, MSc, PGeo

Nov. 26, 2013

Statement of Qualifications M. A. Kaufman

I, M. A. Kaufman hereby state that I have worked as a mining geologist and mining engineer since 1955, interrupted by a short period of military service.

I received an A. B. degree in geology from Dartmouth College in 1955, and an M. S. degree in geology and mining engineering from the University of Minnesota in 1957.

I am currently registered as a Professional Engineer/Geologist in the province of British Columbia.

From the period 1955 - 1963 I worked for the major companies Kennecott Copper Corp., Kermac Nuclear Fuels Corp., Giant Yellowknife Gold Mines Ltd. (Falconbridge), and Hunting Survey Corp., Ltd. I spent one year (1963-1964) working for the State of Alaska, Div. of Mines and Minerals. Beginning in 1965 I worked independently as a contractor for major companies. From 1969 through 1989, I was a principal of the consulting and contracting firm of Perry, Knox, Kaufman, Inc., and its successor, Knox, Kaufman Inc., which carried out metals exploration and supervised mine developments for mining and oil companies. From 1990 to present I have worked as an independent consultant and prospector.

M. A. Kaufman

	A	B	C
1	Jake Property 2013 Expenditures		
2	Geology and Supervision		
3			
4	M. A. Kaufman		
5	10-May	Permitting reports	\$800.00
6	18-Jul	travel	\$400.00
7	19-Jul	meeting re NOW	\$400.00
8	20-Jul	prospect new roads	\$800.00
9		check water sources	
10	22-Jul	travel	\$400.00
11	26-Jul	drill bids/lcontracts	\$800.00
12	1-Aug	Drill contract/ select drill sites	\$800.00
13	2-Aug	travel	\$400.00
14	3-Aug	drill supervision	\$800.00
15	4-Aug	"	\$800.00
16	5-Aug	supervision /log core	\$800.00
17	6-Aug	"	\$800.00
18	7-Aug	"	\$800.00
19	8-Aug	travel	\$400.00
20	10-Aug	geology/accounts	\$800.00
21	6-Nov	Data Comp/assess rept	\$800.00
22	12-Nov	Data Comp/assess rept	\$800.00
23	Mike Cathro		
24	23-May	tour Mines inspector	\$800.00
25	11-Jun	1/2 day map prep	\$400.00
26	12-Jun	sampling supervision	\$800.00
27	14-Jun	sampling supervision	\$800.00
28	7-Aug	Supervision core logging	\$800.00
29	8-Aug	"	\$800.00
30	13-Aug	detail core logging	\$800.00
31	26-Oct	compile logs	\$800.00
32			
33			
34			
35	Contractor Invoices		
36			
37	Cathro Resources		
38	May-Jun, 2013	misc. charges re sampling	\$708.73
39	Aug, 2013	misc. charges re core logging	\$645.55
40	Sept., 2013	misc. charges re reclam.	\$535.63
41	Aug., 2013	Paycore Enterprises/drilling	\$57,994.00
42			
43		ACTLABS/assaying	\$1,145.13
44		ALS/ assaying	\$1,513.11
45	Oct.25	Cals moving core	\$252.00
46	13-Nov	Wayne Reich drafting	\$178.50
47			
48			

	A	B	C
49	Travel		
50			
51	MAK vehicle	3353 km*.50	\$1,676.50
52	MAK lodging/meals		\$1,480.93
53			
54	Grand Total		\$83,730.08

	A	B	C	D	E
1	Sample #	NAD 83 Z	E	N	Date + time
2	J13H001	10U	691649	5725749	12-JUN-13 12:09:52PM
3	J13H002	10U	691601	5725752	12-JUN-13 12:16:32PM
4	J13H003	10U	691550	5725750	12-JUN-13 12:21:14PM
5	J13H004	10U	691500	5725750	12-JUN-13 12:29:05PM
6	J13H005	10U	691451	5725754	12-JUN-13 12:36:25PM
7	J13H006	10U	691399	5725754	12-JUN-13 12:52:26PM
8	J13H007	10U	691350	5725749	12-JUN-13 12:58:20PM
9	J13H008	10U	691303	5725754	12-JUN-13 1:12:28PM
10	J13H009	10U	691250	5725752	12-JUN-13 1:27:38PM
11	J13H010	10U	691203	5725760	12-JUN-13 1:45:55PM
12	J13H011	10U	691202	5725849	12-JUN-13 2:17:29PM
13	J13H012	10U	691252	5725849	12-JUN-13 2:28:57PM
14	J13H013	10U	691300	5725848	12-JUN-13 2:37:54PM
15	J13H014	10U	691350	5725851	12-JUN-13 2:46:57PM
16	J13H015	10U	691400	5725850	12-JUN-13 2:55:54PM
17	J13H016	10U	691452	5725848	12-JUN-13 3:07:08PM
18	J13H017	10U	691500	5725849	12-JUN-13 3:15:49PM
19	J13H018	10U	691547	5725849	12-JUN-13 3:24:20PM
20	J13H019	10U	692004	5724903	12-JUN-13 4:01:38PM
21	J13H020	10U	692056	5724900	12-JUN-13 4:12:04PM
22	J13H021	10U	692101	5724900	12-JUN-13 4:18:31PM
23	J13H022	10U	692129	5724905	12-JUN-13 4:31:36PM
24	J13H023	10U	692161	5724899	12-JUN-13 4:43:32PM
25	J13H024	10U	692200	5724899	12-JUN-13 4:47:39PM
26	J13H025	10U	692250	5724901	12-JUN-13 4:55:43PM
27	J13H026	10U	691373	5721394	14-JUN-13 12:16:19PM
28	J13L001	10U	688449	5726611	14-JUN-13 2:36:49PM
29	J13L002	10U	688457	5726627	14-JUN-13 2:57:30PM
30	J13R001	10U	691304	5725752	12-JUN-13 1:19:46PM
31	J13R002	10U	691414	5721308	14-JUN-13 11:55:34AM
32	J13S001	10U	691370	5721392	14-JUN-13 12:13:28PM

	F	G	H	I	J
1	Elevation (m)	Type	Hg ppb	Bi ppm	Mo
2	1156.6	Humus			
3	1157.5	Humus			
4	1154.9	Humus			
5	1152.7	Humus	50		
6	1153	Humus			
7	1150.1	Humus			
8	1148.9	Humus	30		
9	1147.7	Humus	60		
10	1130.6	Humus			
11	1116.9	Humus			
12	1146.2	Humus			
13	1155.1	Humus	50		
14	1163.1	Humus	130		
15	1159	Humus	120		
16	1157.1	Humus	80		
17	1158	Humus			
18	1169.3	Humus	70		
19	1163.6	Humus	60		
20	1092.7	Humus	80		
21	1096.7	Humus			
22	1091.5	Humus			
23	1088.8	Humus			
24	1093.9	Humus	30	2.72	
25	1109.5	Humus			
26	1124.1	Humus			
27	1091	Humus			
28	975.9	Silt			
29	977.1	Silt			
30	1148.7	Rock			
31	1082.3	Rock			8.84
32	1091.2	Soil			53.1

Sample #	NAD 83 Z	E	N	Date + time	Elevation (m)	Type	Description
J13R001	10U	691304	5725752	12-JUN-13 1:19:46PM	1148.7	Rock	Float; grab; 15 cm qtz vein in greenstone boulder 1.5 m wide; quartz is slightly weathered
J13R002	10U	691414	5721308	14-JUN-13 11:55:34AM	1082.3	Rock	Float, grab; in ditch, dark grey siltstone / shale, graphitic; minor (<0.5%) disseminated py; trace FeOx and qtz veins; same location as high moly in GSC till sample

Sample #	NAD 83 Z	E	N	Date + time	Elevation (m)	Type	Horizon	Depth (cm)	Colour	Texture	Comments
J13S001	10U	691370	5721392	14-JUN-13 12:13:28PM	1091.2	Soil	C	100	Br	Sand-silt	Till in road bank; same location as high moly in GSC till sample



Date Submitted: 17-Jun-13
Invoice No.: A13-06808
Invoice Date: 26-Jun-13
Your Reference:

M.A. Kaufman
P.O. Box 14336
Spokane Valley Washington 99214
United States

ATTN: M.A. KAUFMAN

CERTIFICATE OF ANALYSIS

2 Rock samples, 27 Soil samples and 2 Stream Sediment samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-Kamloops Au - Fire Assay AA
Code UT-2-Kamloops Aqua Regia ICP-ICP/MS

REPORT **A13-06808**

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Notes:

Due to matrix change used in AR-MS analysis, detection limits for Au has been modified to 5ppb. The AU from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A13-06808

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.001	0.001	0.01	0.01	1	0.5	0.01	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
J13H001		5.7	< 0.1	3	0.013	0.17	0.69	0.073	0.034	0.05	0.30	28	14.3	0.12	772	1.04	4.9	8.7	7.06	54.8	3.96	< 0.1	3.3	0.4
J13H002		7.0	0.2	4	0.016	0.16	1.04	0.125	0.034	0.06	0.39	29	16.5	0.10	1280	1.16	5.5	10.9	7.65	81.8	4.65	< 0.1	2.2	0.6
J13H003		4.7	0.1	4	0.015	0.17	0.66	0.075	0.041	0.06	0.39	26	15.3	0.07	1320	1.02	6.9	9.7	7.85	48.8	3.07	< 0.1	1.4	0.5
J13H004		1.0	< 0.1	6	0.007	0.11	0.26	0.065	0.083	0.05	0.59	6	5.9	0.02	500	0.28	1.8	4.7	9.44	53.2	0.47	< 0.1	1.0	0.6
J13H005		6.1	0.2	5	0.011	0.25	0.93	0.088	0.051	0.09	0.50	29	13.3	0.09	659	1.22	5.9	10.4	12.7	59.8	2.93	< 0.1	2.2	0.7
J13H006		6.6	0.1	4	0.014	0.38	1.02	0.060	0.043	0.07	0.50	36	22.6	0.14	538	1.38	7.3	14.7	13.7	57.0	3.31	< 0.1	2.1	0.6
J13H007		6.9	0.1	8	0.016	0.47	1.04	0.081	0.088	0.12	1.44	26	25.1	0.10	1950	1.21	9.1	15.5	18.9	106	2.69	< 0.1	1.9	0.9
J13H008		5.6	0.1	5	0.022	0.37	0.93	0.063	0.051	0.09	0.73	31	22.1	0.11	1430	1.30	8.9	14.5	18.1	64.3	2.86	< 0.1	2.2	0.7
J13H009		9.7	0.2	2	0.018	0.54	1.41	0.046	0.023	0.10	0.51	47	27.0	0.19	372	1.92	9.7	19.9	18.4	51.5	3.77	< 0.1	2.8	0.5
J13H010		8.3	0.2	3	0.030	0.55	0.96	0.050	0.030	0.11	0.73	43	25.0	0.18	307	1.65	7.4	15.0	17.3	42.3	2.72	< 0.1	2.4	0.7
J13H011		7.7	0.1	4	0.016	0.73	1.48	0.043	0.035	0.15	0.90	50	40.0	0.22	558	1.94	11.6	21.0	20.5	47.9	3.16	< 0.1	2.9	0.7
J13H012		2.1	< 0.1	9	0.011	0.26	0.39	0.107	0.119	0.08	1.69	12	10.6	0.03	1600	0.53	7.0	7.7	13.8	99.1	1.00	< 0.1	0.9	0.7
J13H013		1.2	< 0.1	4	0.013	0.13	0.31	0.075	0.094	0.09	0.60	11	10.0	0.03	356	0.46	1.9	5.8	12.9	67.0	0.92	< 0.1	2.8	0.8
J13H014		1.4	< 0.1	5	0.011	0.14	0.31	0.078	0.096	0.07	0.98	16	8.9	0.04	2320	0.57	3.1	6.1	10.4	68.5	1.12	< 0.1	1.4	0.7
J13H015		1.6	< 0.1	7	0.011	0.19	0.35	0.091	0.089	0.08	0.75	11	10.6	0.03	2910	0.55	4.1	7.2	11.5	62.6	1.18	< 0.1	1.6	0.8
J13H016		1.6	< 0.1	2	0.011	0.10	0.33	0.063	0.059	0.06	0.59	18	9.8	0.06	586	0.56	2.8	6.0	8.46	48.7	2.40	< 0.1	0.9	0.7
J13H017		1.1	< 0.1	3	0.011	0.11	0.34	0.083	0.087	0.06	0.47	9	8.4	0.03	530	0.37	2.1	5.9	10.7	42.7	0.78	< 0.1	0.9	0.7
J13H018		2.3	< 0.1	4	0.013	0.21	0.46	0.075	0.080	0.09	0.95	16	13.1	0.04	1460	0.62	3.5	8.4	12.1	61.7	1.24	< 0.1	1.0	0.8
J13H019		0.7	< 0.1	3	0.012	0.10	0.25	0.086	0.098	0.07	0.64	7	6.7	0.02	383	0.28	1.4	5.3	10.7	43.0	0.72	< 0.1	0.9	0.8
J13H020		2.4	< 0.1	4	0.013	0.21	0.46	0.068	0.078	0.06	1.08	17	13.9	0.04	1790	0.66	3.0	9.0	9.80	82.1	1.80	< 0.1	1.0	0.6
J13H021		1.9	< 0.1	9	0.013	0.28	0.38	0.097	0.104	0.12	1.29	15	12.9	0.03	1830	0.58	5.7	7.7	10.1	73.8	1.37	< 0.1	1.0	0.7
J13H022		7.1	0.1	2	0.025	0.33	0.78	0.052	0.069	0.06	1.13	32	22.2	0.08	412	1.29	5.5	14.2	14.8	38.2	3.36	< 0.1	4.1	1.0
J13H023		2.4	< 0.1	2	0.012	0.20	0.44	0.075	0.082	0.07	0.63	19	10.6	0.05	1230	0.70	3.1	6.9	15.6	36.5	1.51	< 0.1	1.8	0.8
J13H024		8.0	0.1	2	0.013	0.42	1.08	0.039	0.032	0.06	0.47	41	22.6	0.14	287	1.53	6.4	15.0	10.1	34.1	3.63	< 0.1	2.4	0.7
J13H025		3.0	< 0.1	2	0.010	0.25	0.57	0.039	0.044	0.07	0.43	21	16.7	0.06	150	0.75	3.6	10.1	9.45	26.7	1.63	< 0.1	1.9	0.7
J13H026		6.4	0.2	5	0.011	0.26	0.76	0.079	0.052	0.09	1.01	26	15.4	0.03	2040	1.36	5.5	20.3	11.7	114	2.94	< 0.1	2.9	0.9
J13L001		13.7	0.4	< 1	0.036	0.60	1.29	0.066	0.028	0.05	0.52	54	32.5	0.12	629	2.46	9.8	22.4	14.3	55.7	3.39	< 0.1	5.5	1.1
J13L002		12.0	0.3	< 1	0.031	0.60	1.17	0.063	0.021	0.04	0.50	55	32.5	0.13	594	2.47	9.4	21.6	12.8	49.8	3.11	< 0.1	5.0	1.0
J13R001	< 5	14.8	0.1	19	0.030	0.95	1.17	0.027	0.006	0.03	0.66	20	24.1	0.05	531	2.13	13.3	19.7	97.7	40.8	3.80	< 0.1	2.0	0.3
J13R002	< 5	12.0	0.4	< 1	0.016	1.22	0.90	0.066	0.161	0.08	26.7	18	16.6	< 0.01	923	2.80	8.0	27.4	13.1	40.5	1.57	< 0.1	3.8	1.5
J13S001		18.7	0.9	< 1	0.009	0.76	1.62	0.128	0.013	0.08	1.63	63	26.0	0.02	544	5.01	18.2	135	64.7	227	4.30	< 0.1	21.8	2.4

Activation Laboratories Ltd. Report: A13-06808

Analyte Symbol	Rb	Sr	Y	Zr	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd
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	0.1	0.5	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.02
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
J13H001	3.9	10.0	1.62	1.0	1.1	0.8	0.5	0.4	<0.1	0.2	<0.1	0.9	0.82	0.182	0.22	<0.02	0.91	0.17	0.05	0.62	43	3.9	7.24	2.92
J13H002	6.8	16.5	1.67	0.7	1.1	0.9	0.5	0.4	<0.1	0.2	<0.1	1.0	0.75	0.147	0.58	<0.02	0.89	0.12	0.05	1.11	92	4.8	8.73	3.30
J13H003	7.6	17.2	1.70	0.3	0.9	0.9	0.5	0.4	<0.1	0.2	<0.1	0.8	0.71	0.104	0.27	<0.02	0.81	0.17	0.03	2.83	91	4.8	8.84	3.32
J13H004	3.8	23.4	0.64	0.4	0.3	0.3	0.2	0.1	<0.1	<0.1	<0.1	0.2	0.52	0.152	0.47	<0.02	0.57	0.19	<0.02	2.68	72	1.2	2.15	0.99
J13H005	12.5	17.0	2.22	2.1	1.2	0.6	0.5	0.5	<0.1	0.3	<0.1	0.9	0.61	0.183	0.34	<0.02	0.57	0.13	<0.02	7.38	70	2.7	5.20	2.34
J13H006	8.8	23.0	2.43	1.6	1.9	1.0	0.6	0.6	0.1	0.3	<0.1	1.2	0.78	0.092	0.19	<0.02	0.66	0.23	<0.02	2.72	82	5.1	9.47	3.71
J13H007	9.3	57.7	2.15	0.9	1.3	0.7	0.5	0.5	<0.1	0.3	<0.1	0.7	1.24	0.119	1.36	<0.02	0.80	0.19	0.03	2.01	193	3.4	6.31	2.61
J13H008	6.2	28.8	2.81	1.1	1.7	1.0	0.7	0.6	0.1	0.3	<0.1	0.8	1.15	0.097	0.62	<0.02	0.83	0.29	0.05	1.34	149	4.8	9.07	3.79
J13H009	10.2	22.1	3.42	2.9	2.3	1.2	0.8	0.8	0.2	0.4	<0.1	1.3	0.74	0.121	0.20	<0.02	0.80	0.19	<0.02	1.80	103	6.3	11.6	4.59
J13H010	8.6	23.2	4.74	1.9	2.6	1.8	1.2	1.1	0.2	0.6	<0.1	1.6	0.90	0.146	0.21	<0.02	0.90	0.28	<0.02	1.19	83	9.5	17.0	6.46
J13H011	10.0	33.8	3.66	2.6	2.6	1.0	0.8	0.9	0.2	0.5	<0.1	1.0	0.65	0.065	0.20	<0.02	0.60	0.22	0.04	1.49	114	4.8	9.00	3.82
J13H012	3.3	57.7	1.23	0.4	0.5	0.4	0.3	0.3	<0.1	0.1	<0.1	0.3	0.98	0.097	0.67	<0.02	0.44	0.15	<0.02	0.70	113	2.1	3.65	1.49
J13H013	2.2	25.6	1.02	0.4	0.4	0.4	0.3	0.2	<0.1	0.1	<0.1	0.3	0.65	0.169	0.29	<0.02	0.69	0.21	<0.02	0.52	83	1.8	3.21	1.37
J13H014	2.7	44.4	1.03	0.2	0.6	0.4	0.3	0.2	<0.1	0.1	<0.1	0.2	0.94	0.110	0.40	<0.02	0.56	0.18	<0.02	0.51	157	1.8	3.34	1.47
J13H015	3.9	33.7	0.83	0.1	0.4	0.3	0.2	0.2	<0.1	<0.1	<0.1	0.2	0.94	0.078	0.37	<0.02	0.54	0.23	0.02	1.68	130	1.5	2.77	1.15
J13H016	3.2	26.9	1.11	0.5	0.6	0.7	0.3	0.2	<0.1	0.1	<0.1	0.6	0.89	0.093	0.29	<0.02	0.82	0.22	<0.02	2.48	97	3.1	5.79	2.37
J13H017	2.4	17.7	0.83	0.3	0.4	0.3	0.2	0.2	<0.1	<0.1	<0.1	0.2	0.62	0.285	0.33	<0.02	0.47	0.16	0.03	0.78	67	1.5	2.72	1.18
J13H018	4.3	40.2	1.35	0.3	0.7	0.5	0.4	0.3	<0.1	0.2	<0.1	0.4	1.26	0.294	0.31	<0.02	0.59	0.20	<0.02	0.50	95	2.9	5.07	2.02
J13H019	1.5	26.0	0.57	0.4	0.4	0.2	0.1	0.1	<0.1	<0.1	<0.1	0.2	0.76	0.277	0.31	<0.02	0.58	0.15	0.03	0.21	67	1.2	2.00	0.92
J13H020	5.4	51.7	1.30	0.3	0.6	0.7	0.4	0.3	<0.1	0.1	<0.1	0.6	0.93	0.297	0.34	<0.02	0.54	0.16	<0.02	0.44	156	3.5	6.07	2.31
J13H021	4.0	44.1	0.94	0.1	0.4	0.4	0.3	0.2	<0.1	0.1	<0.1	0.3	1.04	0.095	0.75	<0.02	0.51	0.13	<0.02	0.41	168	2.2	3.91	1.49
J13H022	3.3	26.2	2.17	0.9	1.2	1.0	0.5	0.5	<0.1	0.3	<0.1	1.4	1.22	0.140	0.28	<0.02	0.63	0.15	0.02	1.21	69	5.4	9.92	3.61
J13H023	3.3	24.7	1.29	0.4	0.6	0.4	0.3	0.3	<0.1	0.2	<0.1	1.2	0.72	0.106	0.24	<0.02	0.95	0.16	<0.02	0.94	75	1.8	3.16	1.33
J13H024	6.7	20.0	2.88	1.9	1.8	1.4	0.8	0.7	0.1	0.4	<0.1	2.0	0.54	0.119	0.13	<0.02	0.83	0.15	<0.02	1.76	65	7.1	12.8	4.82
J13H025	3.6	18.3	1.47	0.8	1.0	0.6	0.3	0.3	<0.1	0.2	<0.1	0.7	0.44	0.088	0.23	<0.02	0.46	0.11	<0.02	0.63	59	2.9	5.27	2.09
J13H026	4.8	57.9	1.84	0.5	0.9	1.9	0.8	0.4	<0.1	0.2	<0.1	0.4	10.5	0.328	2.78	<0.02	0.63	0.48	0.02	0.70	203	8.5	16.3	6.90
J13L001	5.3	29.7	7.21	1.0	2.8	4.1	1.9	1.5	0.3	0.8	0.1	1.2	1.41	0.159	0.34	<0.02	0.55	0.36	<0.02	1.48	92	23.0	36.0	13.6
J13L002	4.5	23.9	6.33	1.2	2.6	3.7	1.8	1.4	0.3	0.7	0.1	1.0	1.17	0.091	0.27	<0.02	0.52	0.37	<0.02	1.29	77	21.4	34.0	12.6
J13R001	1.9	15.2	0.74	0.5	0.7	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	1.55	0.195	0.13	<0.02	0.50	0.18	<0.02	0.62	21	<0.5	0.39	0.38
J13R002	4.8	>1000	18.2	6.6	4.4	2.4	4.0	3.6	0.6	1.7	0.2	<0.1	8.84	0.074	0.35	0.02	0.62	0.47	0.08	0.62	227	8.9	17.1	10.5
J13S001	8.4	72.9	17.7	2.6	5.0	6.3	4.3	3.4	0.6	1.9	0.3	0.2	53.1	0.295	1.62	0.05	0.60	4.34	0.17	2.83	91	27.7	47.7	24.2

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Analyte Symbol	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10
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
J13H001	0.5	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.3	0.001	<5	0.03	12.9	0.20	0.7	0.2	<10
J13H002	0.6	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.1	<0.001	<5	0.04	10.3	0.20	0.7	0.3	<10
J13H003	0.6	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.1	0.001	<5	0.04	15.6	0.19	0.6	0.3	<10
J13H004	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.02	13.8	0.10	<0.1	0.1	50
J13H005	0.5	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.1	0.001	<5	0.10	7.23	0.28	0.4	0.2	<10
J13H006	0.7	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.2	0.001	<5	0.09	10.8	0.60	1.2	0.3	<10
J13H007	0.5	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.1	0.001	<5	0.06	16.6	0.14	0.4	0.2	30
J13H008	0.7	0.2	0.1	0.3	<0.1	<0.1	<0.05	0.1	0.001	<5	0.05	21.9	0.19	0.7	0.4	60
J13H009	0.9	0.2	0.1	0.4	<0.1	<0.1	<0.05	0.3	0.001	<5	0.07	6.12	0.15	1.8	0.4	<10
J13H010	1.2	0.3	0.2	0.5	<0.1	<0.1	<0.05	0.5	<0.001	<5	0.06	5.08	0.14	2.2	0.9	<10
J13H011	0.8	0.2	0.1	0.4	<0.1	<0.1	<0.05	0.1	<0.001	<5	0.05	8.72	0.17	1.1	0.3	<10
J13H012	0.3	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.02	11.6	0.07	0.2	0.2	50
J13H013	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	<0.02	9.59	0.07	<0.1	0.2	130
J13H014	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.04	15.1	0.09	0.1	0.1	120
J13H015	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.08	19.4	0.10	<0.1	0.1	80
J13H016	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	16.3	0.18	0.2	0.1	<10
J13H017	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.02	15.8	0.09	<0.1	<0.1	70
J13H018	0.4	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.03	17.5	0.10	0.1	0.1	60
J13H019	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	<0.02	13.9	0.07	0.1	<0.1	80
J13H020	0.4	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.03	13.4	0.11	0.3	0.3	<10
J13H021	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	0.002	<5	0.03	12.2	0.11	<0.1	0.1	10
J13H022	0.6	0.1	<0.1	0.2	<0.1	<0.1	<0.05	0.3	0.001	<5	0.04	5.87	0.19	0.7	0.4	<10
J13H023	0.3	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.02	10.6	2.72	0.2	1.1	30
J13H024	0.9	0.2	0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.05	5.63	0.20	2.3	0.6	<10
J13H025	0.4	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.03	5.80	0.10	0.4	0.2	<10
J13H026	1.1	0.2	<0.1	0.2	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.08	19.6	0.17	0.5	0.2	<10
J13L001	2.2	0.4	0.3	0.6	<0.1	<0.1	<0.05	0.8	0.001	<5	0.09	5.49	0.10	4.7	3.9	<10
J13L002	2.0	0.4	0.2	0.6	<0.1	<0.1	<0.05	0.3	0.001	<5	0.08	4.80	0.08	6.7	2.7	<10
J13R001	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.04	1.21	0.04	<0.1	<0.1	<10
J13R002	3.2	1.3	0.6	1.3	0.2	<0.1	<0.05	<0.1	0.004	<5	0.04	14.9	0.09	1.5	0.8	<10
J13S001	4.7	1.1	0.6	1.6	0.3	<0.1	<0.05	<0.1	0.002	<5	0.63	28.5	0.33	5.3	1.7	<10

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Quality Control																								
Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.001	0.001	0.01	0.01	1	0.5	0.01	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		5.0	0.8	9	0.036	0.13	0.30	0.035	0.177	0.03	0.80	69	6.3		841	23.5	7.6	37.0	1150	796	4.08		361	11.6
GXR-1 Cert		8.20	1.22	15.0	0.0520	0.217	3.52	0.0650	0.257	0.050	0.960	80.0	12.0		852	23.6	8.20	41.0	1110	760	13.8		427	16.6
GXR-4 Meas		10.3	1.5	4	0.143	1.59	2.81	0.116	1.538	1.94	0.88	77	55.4		150	3.28	14.6	39.8	6670	74.5	11.3		95.9	5.9
GXR-4 Cert		11.1	1.90	4.50	0.564	1.66	7.20	0.120	1.77	4.01	1.01	87.0	64.0		155	3.09	14.6	42.0	6520	73.0	20.0		98.0	5.60
GXR-6 Meas		25.9	0.9	3	0.068	0.43	> 10.0	0.034	0.013	1.23	0.14	181	86.1		1140	6.32	14.6	25.1	71.0	131	16.3		243	0.8
GXR-6 Cert		32.0	1.40	9.80	0.104	0.609	17.7	0.0350	0.0160	1.87	0.180	186	96.0		1010	5.58	13.8	27.0	66.0	118	35.0		330	0.940
SAR-M (U.S.G.S.) Meas		14.3	1.1		0.022	0.36	0.99	0.066		0.24	0.28	27	86.6	0.05	4220	2.88	10.1	42.8	307	918	4.66		33.1	1.1
SAR-M (U.S.G.S.) Cert		27.4	2.20		1.140	0.50	6.30	0.070		2.94	0.61	67.20	79.7	2.7	5220	2.99	10.70	41.50	331	930.0	16.8		38.8	0.39
SE58 Meas	629																							
SE58 Cert	607.00																							
J13H013 Orig		1.2	< 0.1	4	0.013	0.13	0.31	0.074	0.093	0.09	0.62	11	10.0	0.03	366	0.46	2.0	5.8	13.0	69.3	0.95	< 0.1	2.9	0.8
J13H013 Dup		1.2	< 0.1	4	0.012	0.13	0.31	0.076	0.095	0.08	0.59	11	10.1	0.03	346	0.46	1.9	5.8	12.8	64.6	0.89	< 0.1	2.8	0.8
J13L001 Orig		14.0	0.4	1	0.037	0.60	1.34	0.064	0.029	0.05	0.53	54	32.6	0.12	657	2.45	10.0	22.9	14.8	56.8	3.46	< 0.1	5.8	1.3
J13L001 Dup		13.4	0.4	< 1	0.034	0.59	1.24	0.067	0.027	0.04	0.52	55	32.4	0.12	602	2.46	9.6	21.9	13.9	54.7	3.32	< 0.1	5.2	1.0
J13R001 Orig	< 5																							
J13R001 Dup	< 5																							
J13R002 Orig	< 5																							
J13R002 Dup	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 1	< 0.5	< 0.01	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1

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Quality Control																								
Analyte Symbol	Rb	Sr	Y	Zr	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd
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	0.1	0.5	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.02
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	2.2	147	26.1	8.9	1.2		3.3	4.7			0.4	< 0.1	16.6	32.9	2.68	0.74	24.0	71.7	12.9	2.72	198	4.7	9.45	5.82
GXR-1 Cert	14.0	275	32.0	38.0	1.58		4.20	4.30			0.430	0.800	18.0	31.0	3.30	0.770	54.0	122	13.0	3.00	750	7.50	17.0	18.0
GXR-4 Meas	97.3	73.5	11.5	10.0	6.9		4.2	2.7			0.2	0.2	314	3.61	0.11	0.19	5.89	3.84	1.01	2.48	36	44.1	86.0	34.6
GXR-4 Cert	160	221	14.0	186	7.70		5.25	2.60			0.210	10.0	310	4.00	0.860	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	45.0
GXR-6 Meas	61.5	27.7	6.72	13.7	24.3		2.0	1.7			0.1	< 0.1	1.91	0.349	0.10	0.06	1.94	2.06	0.06	3.35	814	10.5	32.3	11.2
GXR-6 Cert	90.0	35.0	14.0	110	27.6		2.97	2.80			0.0320	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
SAR-M (U.S.G.S.) Meas	19.6	25.9	18.9		3.1						2.9	11.9	3.15	4.63	0.96	2.95	4.01	0.81	1.92	156	45.4	98.1		
SAR-M (U.S.G.S.) Cert	146.0	151.0	28.00		7.83						29.90	13.10	3.64	5.27	1.08	2.76	6.00	0.96	5.15	801	57.4	122.00		
SE58 Meas																								
SE58 Cert																								
J13H013 Orig	2.2	25.9	1.02	0.4	0.4	0.4	0.3	0.2	< 0.1	0.1	< 0.1	0.3	0.64	0.175	0.31	< 0.02	0.75	0.20	0.03	0.52	84	1.8	3.20	1.37
J13H013 Dup	2.1	25.3	1.01	0.4	0.4	0.4	0.3	0.2	< 0.1	0.1	< 0.1	0.3	0.65	0.164	0.28	< 0.02	0.63	0.23	< 0.02	0.52	82	1.8	3.21	1.37
J13L001 Orig	5.6	30.5	7.16	1.0	2.9	4.3	1.9	1.5	0.3	0.8	0.1	1.2	1.47	0.185	0.36	< 0.02	0.53	0.38	< 0.02	1.53	93	25.8	39.2	14.4
J13L001 Dup	5.1	28.9	7.25	1.0	2.7	3.8	1.9	1.5	0.3	0.8	0.1	1.2	1.35	0.133	0.32	< 0.02	0.57	0.35	0.03	1.42	92	20.3	32.7	12.8
J13R001 Orig																								
J13R001 Dup																								
J13R002 Orig																								
J13R002 Dup																								
Method Blank																								
Method Blank	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 1	< 0.5	< 0.01	< 0.02
Method Blank																								

Quality Control																
Analyte Symbol	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10
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
GXR-1 Meas	2.1	0.5	0.7	2.1	0.3	0.2	< 0.05	> 100		3420	0.35	733	1590	1.3	31.4	4470
GXR-1 Cert	2.70	0.690	0.830	1.90	0.280	0.960	0.175	164		3300	0.390	730	1380	2.44	34.9	3900
GXR-4 Meas	5.4	1.2	0.5	0.8	0.1	0.3	< 0.05	16.0			2.88	45.1	20.3	16.6	4.7	
GXR-4 Cert	6.60	1.63	0.360	1.60	0.170	6.30	0.790	30.8			3.20	52.0	19.0	22.5	6.20	
GXR-6 Meas	2.3	0.6	0.3	0.8	0.1	0.4	< 0.05	< 0.1		96	1.47		0.19	4.2	0.8	
GXR-6 Cert	2.67	0.760	0.415	2.40	0.330	4.30	0.485	1.90		95.0	2.20		0.290	5.30	1.54	
SAR-M (U.S.G.S.) Meas								3.8			0.99	923	1.59	10.2	1.9	
SAR-M (U.S.G.S.) Cert								9.78			2.88	982	1.94	17.2	3.57	
SE58 Meas																
SE58 Cert																
J13H013 Orig	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	< 0.02	9.67	0.07	< 0.1	0.2	120
J13H013 Dup	0.3	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	< 0.02	9.51	0.07	< 0.1	0.2	140
J13L001 Orig	2.2	0.4	0.3	0.6	< 0.1	< 0.1	< 0.05	0.6	0.001	< 5	0.09	5.62	0.10	4.9	4.0	< 10
J13L001 Dup	2.1	0.4	0.3	0.6	< 0.1	< 0.1	< 0.05	1.1	0.001	< 5	0.09	5.35	0.09	4.5	3.8	< 10
J13R001 Orig																
J13R001 Dup																
J13R002 Orig																
J13R002 Dup																
Method Blank																
Method Blank																
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	< 0.02	< 0.01	< 0.02	< 0.1	< 0.1	< 10

DDH Jake 2013-1

From (m)	To (m)	Interval (m)	Actual (m)	Recovery %
0.00	1.53	1.53	0.00	0%
1.53	4.58	3.05	2.45	80%
4.58	7.63	3.05	3.00	98%
7.63	10.68	3.05	3.05	100%
10.68	13.73	3.05	3.15	103%
13.73	16.78	3.05	3.05	100%
16.78	19.83	3.05	2.90	95%
19.83	22.88	3.05	3.00	98%
22.88	25.93	3.05	3.10	102%
25.93	28.98	3.05	3.10	102%
28.98	32.03	3.05	3.10	102%
32.03	35.08	3.05	3.10	102%
35.08	38.13	3.05	3.05	100%
38.13	41.18	3.05	3.05	100%
41.18	44.23	3.05	3.05	100%
44.23	47.28	3.05	3.05	100%
47.28	50.33	3.05	3.05	100%
50.33	53.38	3.05	3.05	100%
53.38	56.43	3.05	2.90	95%
56.43	59.48	3.05	3.00	98%
59.48	62.53	3.05	3.00	98%
62.53	65.58	3.05	3.05	100%
65.58	68.63	3.05	2.95	97%
68.63	71.68	3.05	3.00	98%
71.68	74.73	3.05	3.30	108%
74.73	77.78	3.05	3.00	98%
77.78	80.83	3.05	2.95	97%
80.83	83.88	3.05	3.05	100%
83.88	86.93	3.05	3.10	102%
86.93	89.98	3.05	3.10	102%
89.98	93.03	3.05	2.95	97%
93.03	96.08	3.05	3.00	98%
96.08	99.13	3.05	3.15	103%
99.13	102.18	3.05	3.10	102%

DDH Jake 2013-2

From (m)	To (m)	Interval (m)	Actual (m)	Recovery %
0	4.27	4.27	0.00	0%
4.27	7.32	3.05	2.70	89%
7.32	10.37	3.05	3.00	98%
10.37	13.42	3.05	2.25	74%
13.42	16.47	3.05	3.10	102%
16.47	19.52	3.05	3.00	98%
19.52	22.57	3.05	3.10	102%
22.57	25.62	3.05	3.05	100%
25.62	28.67	3.05	3.10	102%
28.67	31.72	3.05	3.00	98%
31.72	34.77	3.05	3.05	100%
34.77	37.82	3.05	3.00	98%
37.82	40.87	3.05	3.05	100%
40.87	43.92	3.05	3.05	100%
43.92	46.97	3.05	3.05	100%
46.97	50.02	3.05	3.10	102%
50.02	53.07	3.05	3.10	102%
53.07	56.12	3.05	3.00	98%
56.12	59.17	3.05	3.00	98%
59.17	62.22	3.05	3.05	100%
62.22	65.27	3.05	3.00	98%
65.27	68.32	3.05	3.10	102%
68.32	71.37	3.05	3.05	100%
71.37	74.42	3.05	3.10	102%
74.42	77.47	3.05	3.05	100%
77.47	80.52	3.05	3.05	100%
80.52	83.57	3.05	3.05	100%
83.57	86.62	3.05	2.90	95%
86.62	89.67	3.05	3.05	100%
89.67	92.72	3.05	3.00	98%
92.72	95.77	3.05	3.00	98%
95.77	98.82	3.05	3.05	100%
98.82	101.87	3.05	3.05	100%
101.87	104.92	3.05	3.10	102%
104.92	107.97	3.05	3.00	98%
107.97	111.02	3.05	3.00	98%
111.02	114.07	3.05	3.05	100%
114.07	117.12	3.05	3.10	102%
117.12	120.17	3.05	3.00	98%
120.17	123.22	3.05	3.05	100%
123.22	126.27	3.05	3.00	98%
126.27	129.32	3.05	3.05	100%
129.32	132.37	3.05	3.10	102%
132.37	135.42	3.05	3.05	100%
135.42	138.47	3.05	3.00	98%
138.47	141.52	3.05	3.05	100%
141.52	144.57	3.05	3.10	102%
144.57	147.62	3.05	3.00	98%
147.62	150.67	3.05	3.00	98%
150.67	153.72	3.05	3.00	98%
153.72	156.77	3.05	3.05	100%
156.77	159.82	3.05	3.05	100%
159.82	162.87	3.05	3.05	100%
162.87	165.92	3.05	3.05	100%
165.92	168.97	3.05	3.05	100%
168.97	172.02	3.05	3.00	98%
172.02	175.07	3.05	3.10	102%
175.07	178.12	3.05	3.00	98%
178.12	181.17	3.05	3.05	100%
181.17	184.22	3.05	3.10	102%
184.22	187.27	3.05	3.05	100%
187.27	190.32	3.05	3.05	100%
190.32	193.37	3.05	3.00	98%
193.37	196.42	3.05	3.05	100%
196.42	199.47	3.05	3.05	100%
199.47	202.52	3.05	3.10	102%



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SPOKANE VALLEY WA 99214
USA

Page: 1
 Finalized Date: 27 - AUG - 2013
 Account: MAKAUF

CERTIFICATE KL13147916

Project: Jake
 P.O. No.:
 This report is for 45 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 16-AUG-2013.
 The following have access to data associated with this certificate:
 MIKE CATHRO | M.A. KAUFMAN

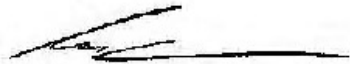
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **M. A. KAUFMAN**
ATTN: M.A. KAUFMAN
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
0.02	0.001	0.2	2.12	14	<10	80	0.5	252	0.70	<0.5	22	91	179	7.13		
MK13-4		0.23	0.001	0.2	2.12	14	<10	80	0.5	252	0.70	<0.5	22	91	179	7.13
MK13-5		0.56	0.005	<0.2	2.17	2	<10	40	<0.5	<2	1.05	<0.5	47	85	83	6.72
13101		2.40	0.004	<0.2	1.29	2	<10	20	<0.5	2	1.63	<0.5	15	3	26	2.74
13102		2.28	0.003	<0.2	2.24	<2	<10	30	<0.5	<2	1.68	<0.5	30	3	69	5.52
13103		1.53	0.018	<0.2	1.44	<2	<10	40	<0.5	2	1.12	<0.5	20	3	67	4.14
13104		1.57	0.019	<0.2	1.65	<2	<10	40	<0.5	2	2.79	<0.5	22	3	66	4.43
13105		2.13	0.002	<0.2	1.44	2	<10	10	<0.5	<2	4.17	<0.5	22	1	139	4.48
13106		1.83	0.057	<0.2	2.60	7	<10	280	<0.5	<2	1.56	<0.5	22	4	8	4.03
13107		1.97	0.001	<0.2	2.38	14	<10	210	<0.5	<2	1.53	<0.5	24	3	7	3.57
13108		2.50	0.001	<0.2	1.98	10	<10	160	<0.5	<2	1.14	<0.5	20	4	11	2.89
13109		2.09	0.002	<0.2	2.30	7	<10	240	<0.5	<2	1.71	<0.5	26	3	82	4.38
13110		1.41	0.002	<0.2	2.39	9	<10	80	<0.5	<2	5.54	<0.5	22	8	26	3.33
13111		1.68	0.282	<0.2	4.46	4	<10	310	<0.5	10	1.86	<0.5	37	192	122	6.60
13112		3.92	0.030	<0.2	3.78	3	<10	40	<0.5	2	1.28	<0.5	36	172	86	6.22
13113		1.89	0.033	0.2	2.28	26	<10	20	<0.5	<2	5.67	<0.5	35	88	214	6.95
13114		2.12	0.030	<0.2	1.79	<2	<10	30	<0.5	2	2.12	<0.5	27	17	100	4.38
13115		2.08	0.003	<0.2	1.78	<2	<10	10	<0.5	<2	1.29	<0.5	23	22	55	3.87
13116		1.88	0.011	<0.2	1.96	<2	<10	10	<0.5	3	1.39	<0.5	32	20	142	5.40
13117		1.99	0.003	<0.2	1.59	5	<10	120	<0.5	2	1.04	<0.5	26	18	82	4.11
13118		1.89	<0.001	<0.2	2.44	3	<10	130	<0.5	<2	0.79	<0.5	31	20	87	5.34
13119		3.01	0.001	<0.2	3.13	3	<10	190	<0.5	<2	1.23	<0.5	32	22	124	6.07
13120		2.40	0.001	<0.2	2.25	<2	<10	20	<0.5	<2	0.96	<0.5	25	16	40	4.68
13121		2.49	0.003	<0.2	2.33	4	<10	10	<0.5	<2	1.10	<0.5	34	19	105	5.58
13122		2.24	0.002	<0.2	1.80	<2	<10	10	<0.5	<2	1.45	<0.5	21	14	70	4.34
13123		3.15	0.002	<0.2	2.07	<2	<10	10	<0.5	<2	1.19	<0.5	28	14	111	5.14
13124		2.61	0.011	<0.2	2.07	3	<10	10	<0.5	2	1.42	<0.5	23	14	150	5.30
13125		2.23	0.004	<0.2	0.85	4	<10	10	<0.5	<2	3.40	<0.5	13	9	85	2.26
13126		2.01	0.007	<0.2	1.51	9	<10	20	<0.5	<2	4.21	<0.5	20	17	53	2.93
13127		2.33	0.002	<0.2	1.60	7	<10	20	<0.5	<2	1.10	<0.5	19	19	18	2.82
13128		2.30	0.003	<0.2	1.34	2	<10	30	<0.5	<2	1.18	<0.5	22	2	30	3.53
13129		2.26	0.005	<0.2	1.20	<2	<10	10	<0.5	<2	0.60	<0.5	18	14	120	3.47
13130		2.07	0.034	<0.2	3.53	<2	<10	30	<0.5	3	0.85	<0.5	41	5	174	8.03
13131		2.12	0.070	<0.2	3.85	2	<10	130	<0.5	4	1.40	<0.5	36	5	76	7.69
13132		2.31	0.005	<0.2	3.84	11	<10	50	<0.5	<2	2.22	<0.5	39	5	113	7.59
13133		2.36	0.005	<0.2	2.83	2	<10	10	<0.5	9	1.33	<0.5	37	3	184	6.83
13134		2.15	0.040	0.2	2.67	2	<10	10	<0.5	9	1.29	<0.5	42	7	248	6.30
13135		1.99	0.002	<0.2	1.95	2	<10	10	<0.5	<2	1.41	<0.5	18	6	102	3.84
13136		1.96	0.002	<0.2	1.77	2	<10	20	<0.5	<2	1.25	<0.5	15	9	85	3.37
13137		1.78	0.003	<0.2	1.80	5	<10	40	<0.5	<2	2.82	<0.5	19	9	120	3.82
13138		1.81	0.003	<0.2	3.86	5	<10	200	<0.5	<2	3.58	<0.5	34	7	93	7.64

**** See Appendix Page for comments regarding this certificate ****



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 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 27 - AUG - 2013
 Account: MAKAUF

Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
MK13-4		10	<1	0.10	10	1.45	489	1	0.05	39	710	20	0.09	<2	6	24
MK13-5		<10	<1	0.05	<10	1.85	544	2	0.02	78	570	2	2.08	<2	3	18
13101		10	<1	0.02	<10	0.65	315	<1	0.04	6	650	<2	0.32	<2	4	20
13102		10	<1	0.03	<10	1.75	684	<1	0.06	14	710	<2	0.85	<2	6	12
13103		10	<1	0.04	<10	1.13	316	<1	0.06	12	680	2	0.91	<2	11	12
13104		10	<1	0.03	<10	1.25	542	<1	0.04	14	690	2	0.69	<2	16	26
13105		10	<1	0.03	<10	1.24	818	<1	0.06	8	700	2	0.99	<2	13	20
13106		10	<1	0.41	<10	2.08	600	<1	0.08	16	490	<2	0.03	<2	5	28
13107		10	<1	0.31	<10	1.77	508	<1	0.09	16	490	<2	0.02	<2	5	22
13108		10	<1	0.24	<10	1.49	448	<1	0.09	17	500	<2	0.04	<2	4	29
13109		10	<1	0.45	<10	1.76	503	<1	0.09	12	720	<2	0.88	<2	6	53
13110		10	1	0.14	<10	1.71	727	<1	0.08	21	320	<2	0.16	<2	6	42
13111		10	<1	0.51	<10	3.63	783	<1	0.20	57	390	<2	1.01	2	17	22
13112		10	<1	0.05	<10	3.61	697	<1	0.10	59	380	<2	0.70	<2	18	16
13113		10	<1	0.04	<10	3.45	1045	<1	0.05	46	410	5	1.04	<2	21	63
13114		10	<1	0.02	<10	1.23	653	<1	0.06	19	500	<2	0.89	<2	6	29
13115		10	1	0.02	<10	1.30	540	<1	0.07	19	530	<2	0.48	<2	6	19
13116		10	<1	0.02	<10	1.60	550	<1	0.07	23	530	2	1.41	<2	6	14
13117		10	<1	0.11	<10	1.28	402	<1	0.08	20	560	<2	0.98	<2	6	12
13118		10	<1	0.10	<10	1.97	633	<1	0.05	20	550	<2	0.62	2	6	11
13119		10	<1	0.09	<10	2.68	767	<1	0.05	20	560	<2	0.44	<2	10	70
13120		10	<1	0.02	<10	1.80	564	<1	0.05	17	610	<2	0.31	<2	5	18
13121		10	<1	0.02	<10	2.04	622	<1	0.05	18	540	<2	1.01	<2	5	14
13122		10	1	0.02	<10	1.77	562	<1	0.04	15	450	<2	0.75	<2	6	14
13123		10	<1	0.03	<10	1.93	554	<1	0.06	18	500	<2	1.10	<2	8	11
13124		10	<1	0.02	<10	1.95	541	<1	0.07	17	500	<2	1.49	<2	8	12
13125		<10	<1	0.02	<10	0.68	346	<1	0.05	8	320	<2	0.64	<2	3	34
13126		10	<1	0.01	<10	1.20	534	<1	0.05	16	340	<2	0.44	<2	4	65
13127		10	<1	0.02	<10	1.14	355	<1	0.09	17	560	<2	0.16	<2	4	14
13128		10	<1	0.03	<10	0.94	365	<1	0.07	8	700	<2	0.48	<2	4	12
13129		<10	<1	0.02	<10	1.05	300	1	0.03	8	300	<2	1.05	<2	5	6
13130		10	1	0.04	<10	3.17	840	<1	0.05	12	690	<2	1.84	<2	10	13
13131		10	1	0.24	<10	3.51	947	<1	0.04	12	730	<2	0.83	<2	10	19
13132		10	1	0.06	<10	3.50	994	<1	0.02	10	720	<2	0.90	<2	10	22
13133		10	1	0.02	<10	2.68	695	<1	0.03	10	730	<2	1.68	<2	7	11
13134		10	<1	0.01	<10	2.61	699	<1	0.03	11	540	<2	1.85	<2	11	6
13135		10	1	0.03	<10	2.03	505	<1	0.04	9	590	<2	0.46	<2	9	12
13136		10	1	0.02	<10	1.75	424	<1	0.04	8	450	<2	0.39	<2	8	16
13137		10	1	0.02	<10	1.73	515	<1	0.04	7	430	<2	0.94	<2	11	40
13138		20	1	0.30	<10	3.63	887	1	0.04	12	620	<2	1.30	<2	19	54

**** See Appendix Page for comments regarding this certificate ****



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USA

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 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 27 - AUG - 2013
 Account: MAKAUF

Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
MK13-4		<20	0.47	<10	<10	136	<10	50
MK13-5		<20	0.43	<10	<10	68	<10	61
13101		<20	0.42	<10	<10	106	<10	25
13102		<20	0.35	<10	<10	148	<10	55
13103		<20	0.38	<10	<10	161	<10	33
13104		<20	0.22	<10	<10	170	<10	48
13105		<20	0.24	<10	<10	176	<10	40
13106		<20	0.28	<10	<10	130	<10	47
13107		<20	0.29	<10	<10	110	<10	38
13108		<20	0.25	<10	<10	96	<10	32
13109		<20	0.31	<10	<10	130	<10	50
13110		<20	0.19	<10	<10	85	<10	41
13111		<20	0.24	<10	<10	218	<10	89
13112		<20	0.22	<10	<10	209	<10	87
13113		<20	0.07	10	<10	170	<10	98
13114		<20	0.43	<10	<10	117	<10	52
13115		<20	0.42	<10	<10	118	<10	51
13116		<20	0.44	<10	<10	143	<10	62
13117		<20	0.43	<10	<10	141	<10	51
13118		<20	0.33	<10	<10	156	<10	78
13119		<20	0.37	<10	<10	188	<10	81
13120		<20	0.31	<10	<10	141	<10	49
13121		<20	0.31	<10	<10	142	<10	56
13122		<20	0.26	<10	<10	133	<10	50
13123		<20	0.32	<10	<10	162	<10	59
13124		<20	0.35	<10	<10	157	<10	50
13125		<20	0.23	<10	<10	78	<10	23
13126		<20	0.27	<10	<10	95	<10	40
13127		<20	0.33	<10	<10	98	<10	36
13128		<20	0.33	<10	<10	142	<10	35
13129		<20	0.24	<10	<10	91	<10	29
13130		<20	0.36	<10	<10	270	<10	75
13131		<20	0.46	<10	<10	285	<10	84
13132		<20	0.39	<10	<10	244	<10	78
13133		<20	0.33	<10	<10	190	<10	65
13134		<20	0.26	<10	<10	206	<10	69
13135		<20	0.31	<10	<10	168	<10	51
13136		<20	0.25	<10	<10	147	<10	46
13137		<20	0.24	<10	<10	149	<10	47
13138		<20	0.35	<10	<10	280	<10	79

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Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
13139		1.99	0.001	<0.2	3.51	<2	<10	180	<0.5	<2	0.58	<0.5	39	8	96	7.23
13140		2.00	0.002	<0.2	2.80	2	<10	290	<0.5	2	0.87	<0.5	36	7	111	5.82
13141		1.91	0.002	<0.2	0.75	58	<10	20	<0.5	<2	11.1	<0.5	23	40	48	4.53
13142		1.51	0.002	<0.2	0.66	105	<10	10	<0.5	<2	11.0	<0.5	22	29	43	4.54
13143		1.98	0.004	<0.2	1.04	144	<10	10	<0.5	<2	9.5	<0.5	23	24	52	4.64

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 Finalized Date: 27 - AUG - 2013
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Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
13139		10	<1	0.34	<10	3.36	765	1	0.04	13	670	<2	1.11	<2	14	4
13140		10	<1	0.55	<10	2.81	577	<1	0.05	13	670	<2	0.92	<2	10	11
13141		<10	<1	0.05	<10	4.22	1085	<1	0.04	32	160	<2	0.20	<2	19	68
13142		<10	<1	0.03	<10	4.03	1220	<1	0.04	28	220	<2	0.16	<2	16	72
13143		<10	<1	0.04	<10	3.42	1075	<1	0.06	30	260	<2	0.25	<2	16	83

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Project: Jake

CERTIFICATE OF ANALYSIS KL13147916

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
13139		<20	0.34	<10	<10	253	<10	72
13140		<20	0.36	<10	<10	206	<10	65
13141		<20	<0.01	<10	<10	98	<10	49
13142		<20	<0.01	<10	<10	83	<10	50
13143		<20	<0.01	<10	<10	99	<10	58

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Page: 1
 Finalized Date: 4-OCT-2013
 Account: MAKAUF

CERTIFICATE KL13173584

Project: Jake
 P.O. No.:
 This report is for 7 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 26-SEP-2013.
 The following have access to data associated with this certificate:

MIKE CATHRO	M.A. KAUFMAN	
-------------	--------------	--

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

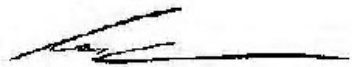
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **M. A. KAUFMAN**
ATTN: M.A. KAUFMAN
PO BOX 14336
SPOKANE VALLEY WA 99214
USA

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: MAKauf

Project: Jake

CERTIFICATE OF ANALYSIS KL13173584

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
MK-13-6		0.45	0.329	0.5	0.94	2	<10	20	<0.5	10	0.85	<0.5	62	5	521	7.46
MK-13-7		0.19	0.003	<0.2	3.43	4	<10	130	<0.5	<2	0.92	<0.5	36	12	34	6.83
MK-13-8		0.15	0.002	<0.2	2.82	3	<10	40	<0.5	<2	2.39	<0.5	25	62	44	5.35
MK-13-9		0.28	0.004	<0.2	5.19	<2	<10	20	2.4	<2	4.33	<0.5	10	21	25	1.38
MK-13-10		0.58	0.007	0.2	3.84	8	<10	10	<0.5	<2	0.96	<0.5	46	18	190	8.00
MK-13-11		0.27	0.003	0.2	2.73	<2	<10	10	<0.5	2	1.94	<0.5	24	24	105	5.84
MK-13-12		0.73	0.217	0.3	4.21	26	<10	80	<0.5	16	1.19	<0.5	43	137	186	7.86

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Project: Jake

CERTIFICATE OF ANALYSIS KL13173584

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
MK-13-6		<10	<1	0.03	<10	0.69	355	<1	0.05	6	500	<2	5.96	4	4	8
MK-13-7		10	<1	0.17	<10	2.90	676	<1	0.05	17	650	<2	1.02	3	6	19
MK-13-8		10	<1	0.07	<10	2.60	642	<1	0.09	42	420	<2	0.20	<2	16	20
MK-13-9		10	<1	0.07	30	0.27	220	<1	0.14	31	510	8	0.27	<2	2	222
MK-13-10		20	<1	0.02	<10	3.58	976	<1	0.03	21	640	<2	0.87	<2	22	9
MK-13-11		10	<1	0.02	<10	2.92	773	<1	0.03	22	580	<2	0.96	<2	20	9
MK-13-12		20	<1	0.11	<10	4.09	803	<1	0.05	60	730	3	1.46	<2	24	13

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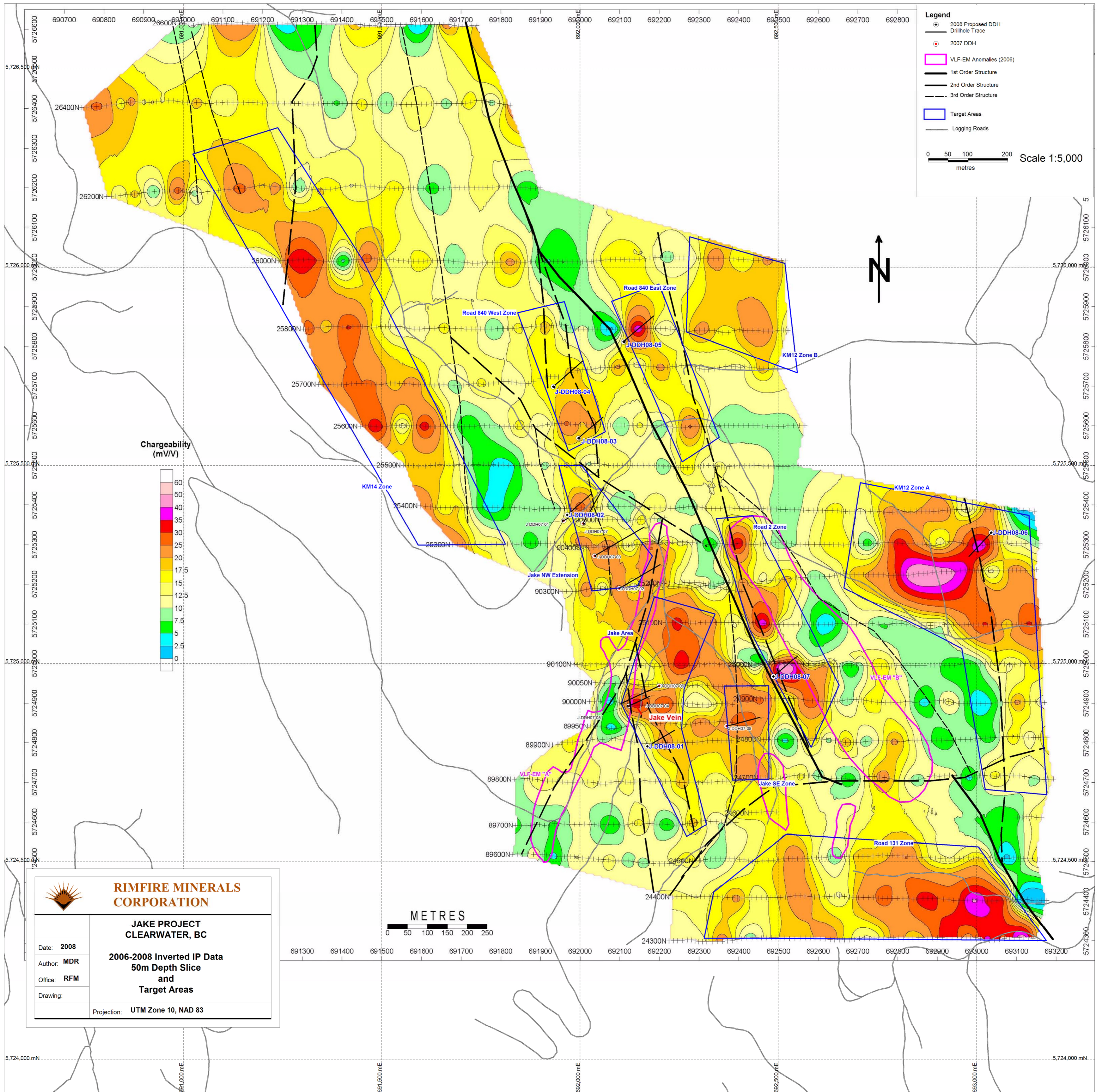
Page: 2 - C
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 4-OCT-2013
 Account: MAKauf

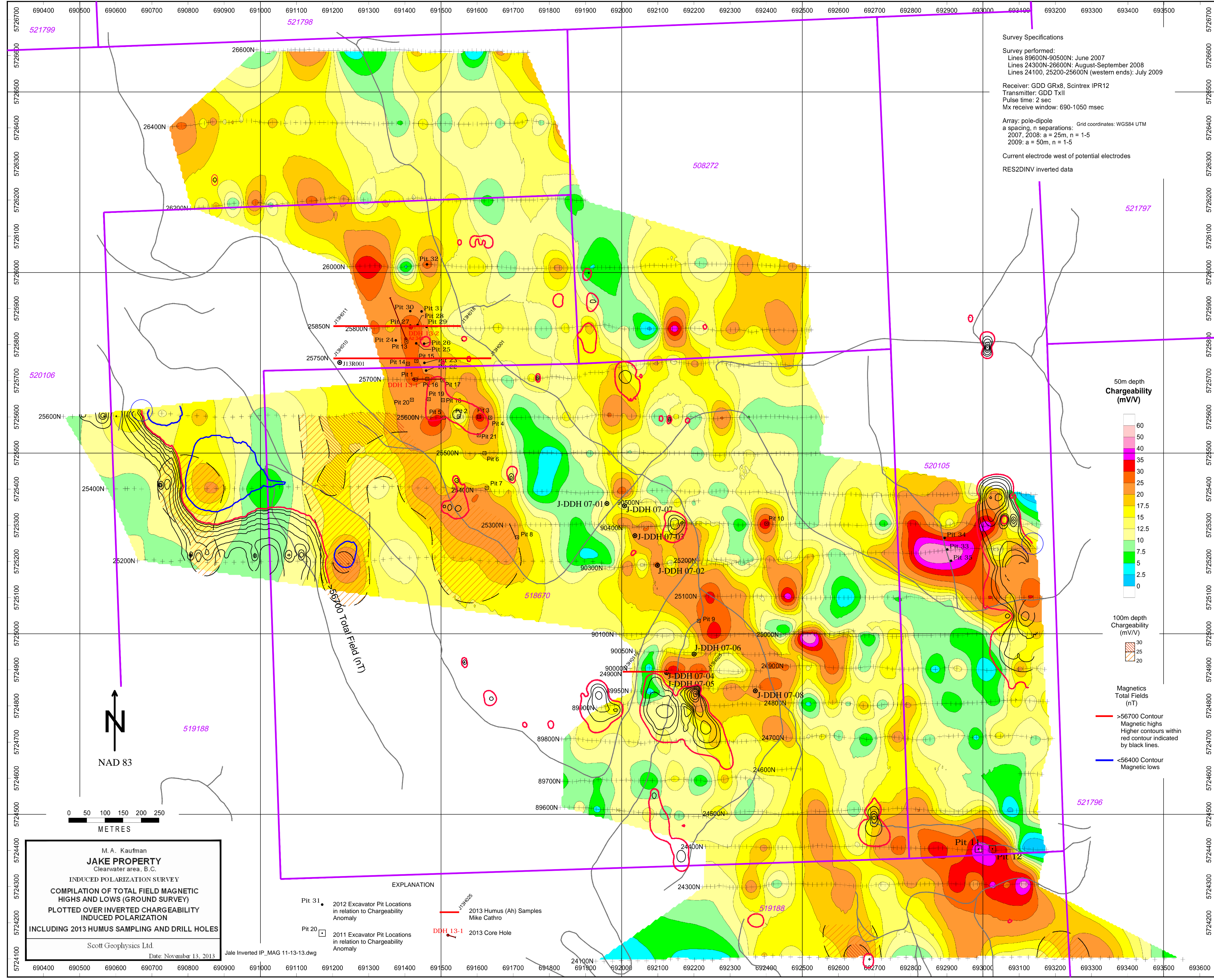
Project: Jake

CERTIFICATE OF ANALYSIS KL13173584

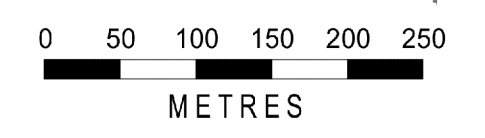
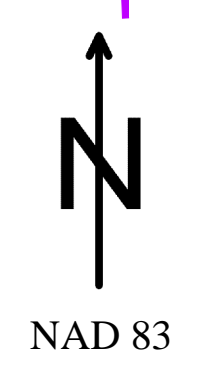
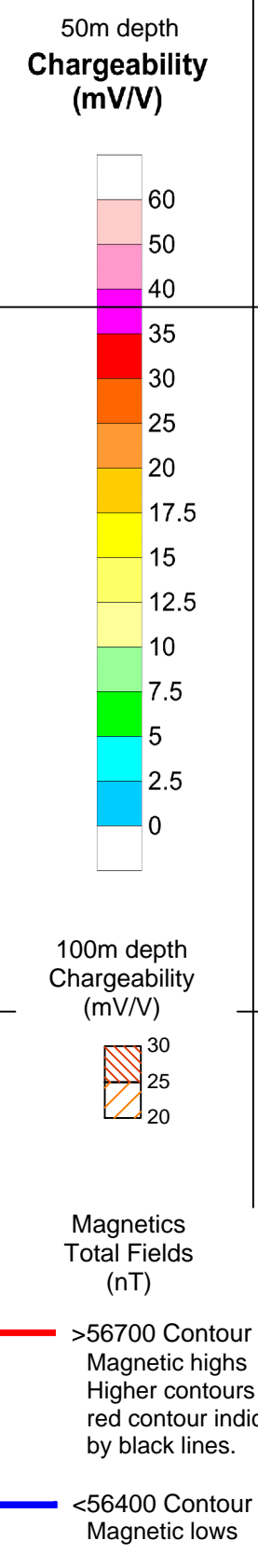
Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
MK-13-6		<20	0.28	<10	<10	109	<10	18
MK-13-7		<20	0.37	<10	<10	249	<10	48
MK-13-8		<20	0.34	<10	<10	179	<10	70
MK-13-9		<20	0.13	<10	<10	18	<10	35
MK-13-10		<20	0.23	<10	<10	312	<10	101
MK-13-11		<20	0.01	<10	<10	255	<10	73
MK-13-12		<20	0.10	<10	<10	254	<10	96

***** See Appendix Page for comments regarding this certificate *****





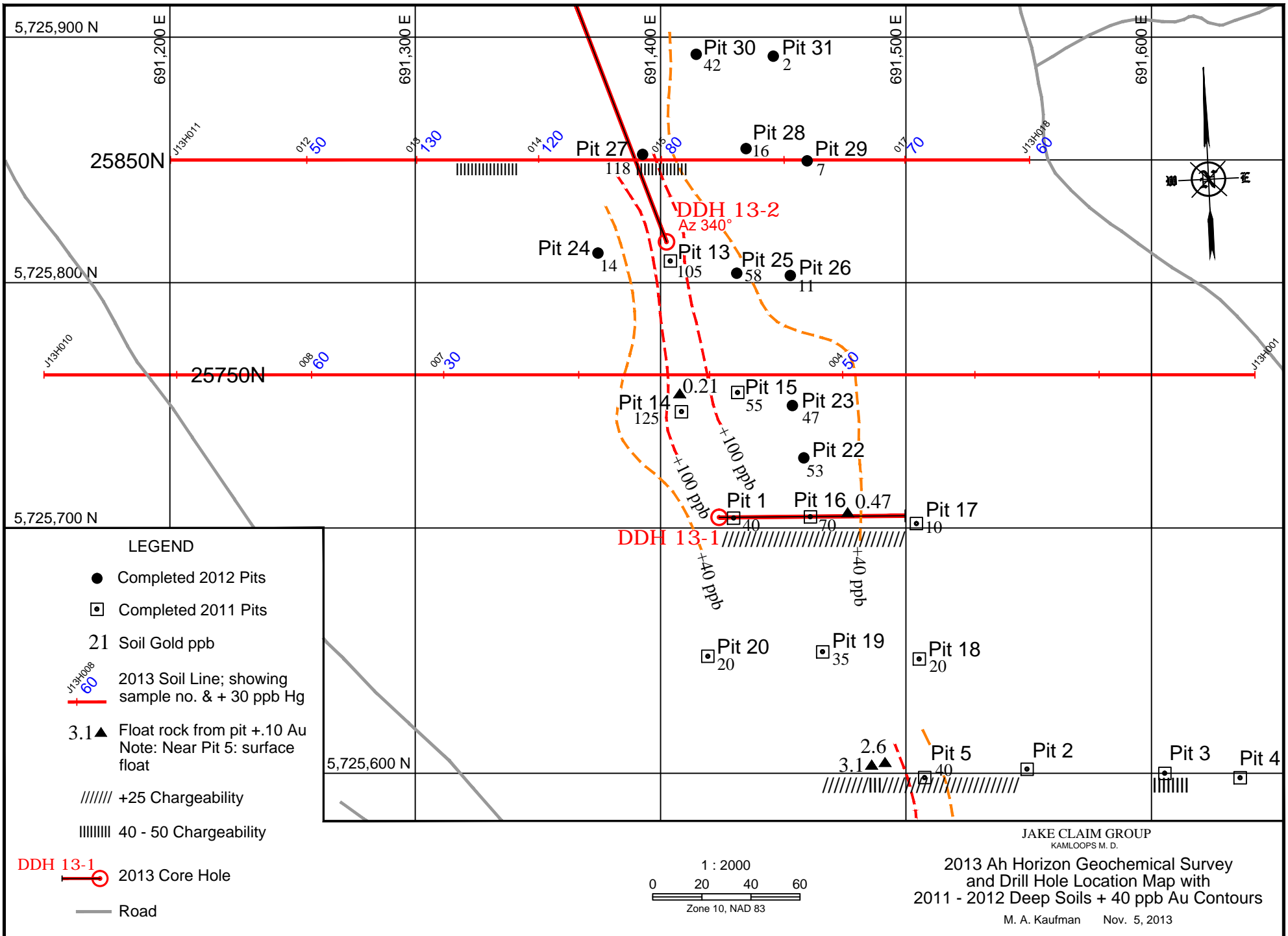
Survey Specifications
 Survey performed:
 Lines 89600N-90500N: June 2007
 Lines 24300N-26600N: August-September 2008
 Lines 24100, 25200-25600N (western ends): July 2009
 Receiver: GDD GRx8, Scintrex IPR12
 Transmitter: GDD Txii
 Pulse time: 2 sec
 Mx receive window: 690-1050 msec
 Array: pole-dipole
 a spacing, n separations: Grid coordinates: WGS84 UTM
 2007, 2008: a = 25m, n = 1-5
 2009: a = 50m, n = 1-5
 Current electrode west of potential electrodes
 RES2DINV inverted data



M.A. Kaufman
JAKE PROPERTY
 Clearwater area, B.C.
 INDUCED POLARIZATION SURVEY
 COMPILED OF TOTAL FIELD MAGNETIC
 HIGHS AND LOWS (GROUND SURVEY)
 PLOTTED OVER INVERTED CHARGEABILITY
 INDUCED POLARIZATION
 INCLUDING 2013 HUMUS SAMPLING AND DRILL HOLES
 Scott Geophysics Ltd.
 Date: November 13, 2013

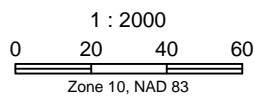
EXPLANATION

- Pit 31 • 2012 Excavator Pit Locations in relation to Chargeability Anomaly
- Pit 20 □ 2011 Excavator Pit Locations in relation to Chargeability Anomaly
- JYH080 2013 Humus (Ah) Samples Mike Cathro
- DDH 13-1 2013 Core Hole



LEGEND

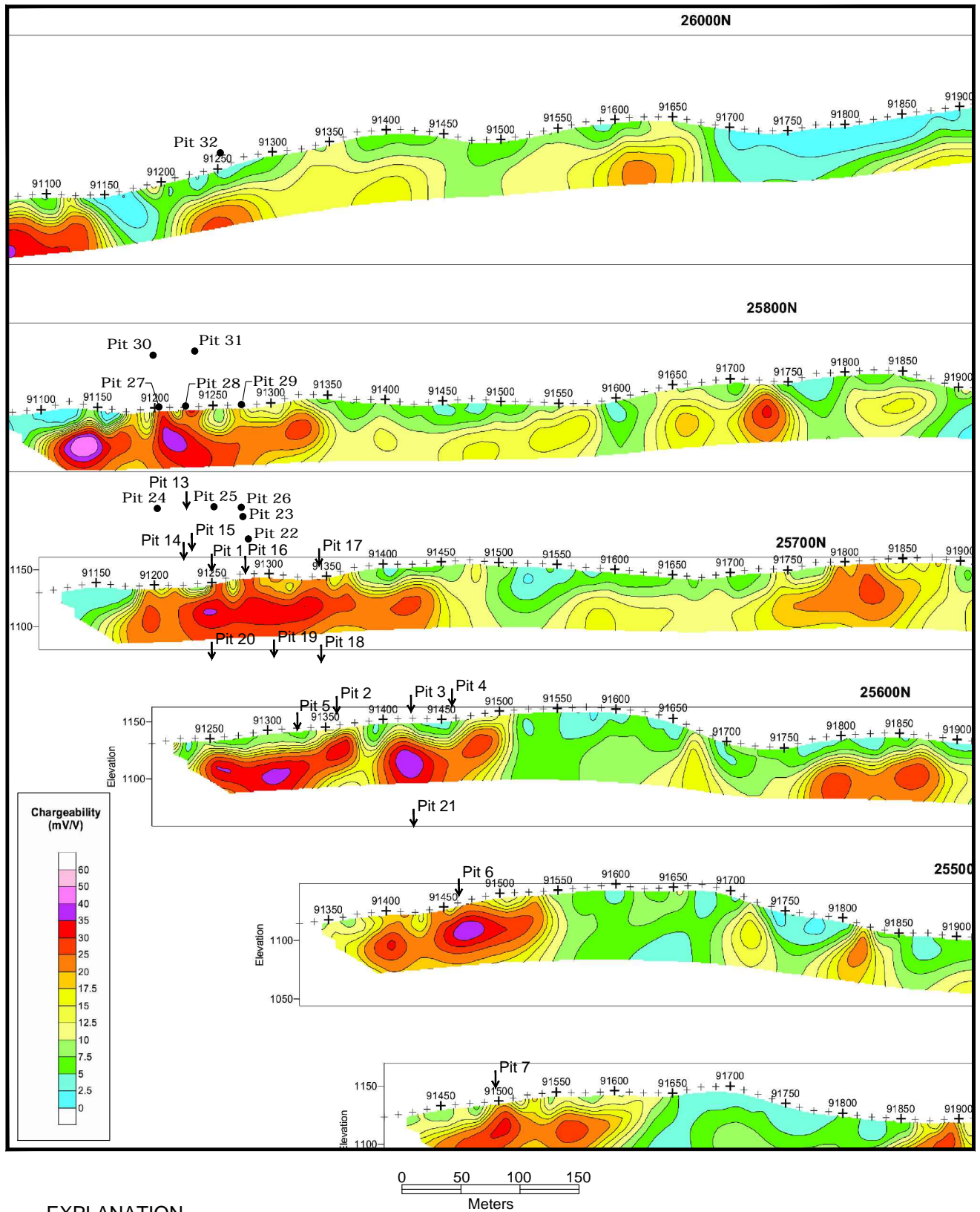
- Completed 2012 Pits
- ◻ Completed 2011 Pits
- 21 Soil Gold ppb
- 2013 Soil Line; showing sample no. & + 30 ppb Hg
- 3.1▲ Float rock from pit +.10 Au
Note: Near Pit 5: surface float
- ////// +25 Chargeability
- ||||||| 40 - 50 Chargeability
- DDH 13-1 2013 Core Hole
- Road



JAKE CLAIM GROUP
KAMLOOPS M. D.

2013 Ah Horizon Geochemical Survey
and Drill Hole Location Map with
2011 - 2012 Deep Soils + 40 ppb Au Contours

M. A. Kaufman Nov. 5, 2013



EXPLANATION

- Pit 31 ● 2012 Excavator Pit Locations in relation to Chargeability Anomaly
- Pit 20 ↓ 2011 Excavator Pit Locations in relation to Chargeability Anomaly

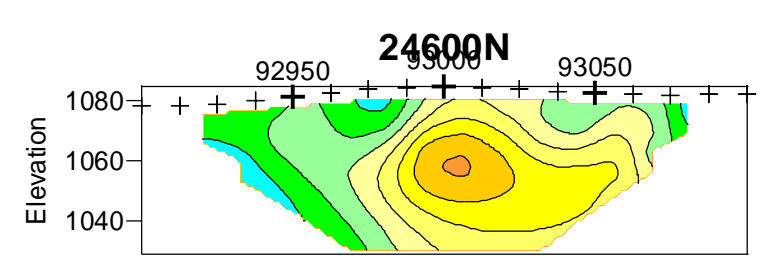
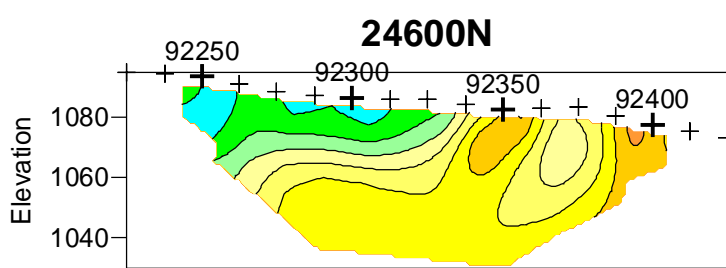
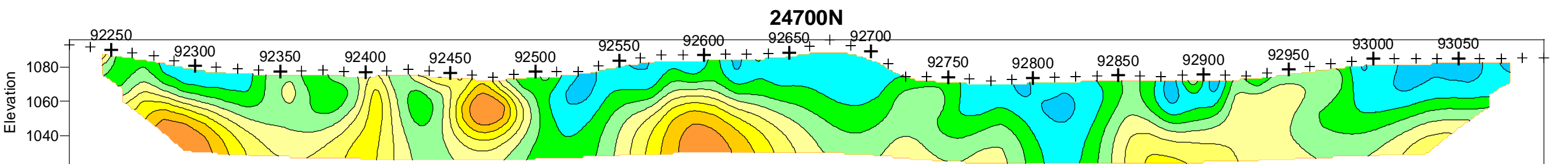
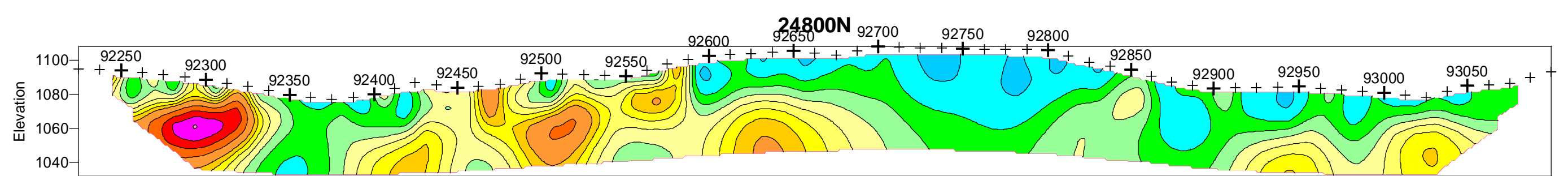
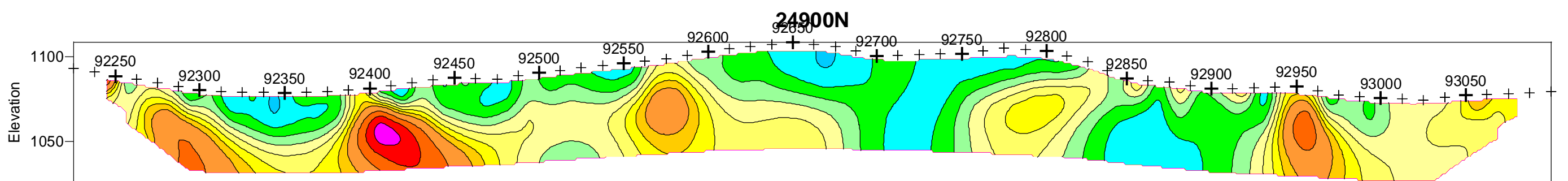
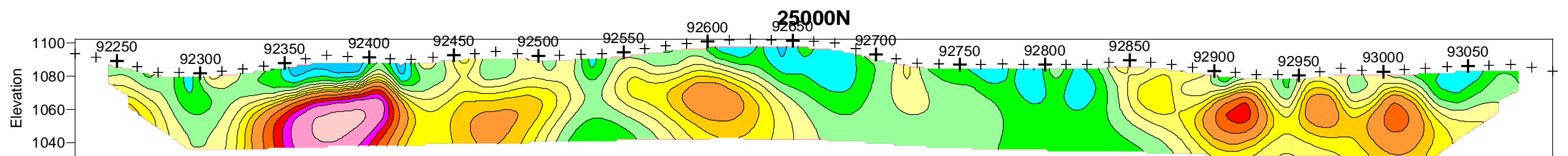
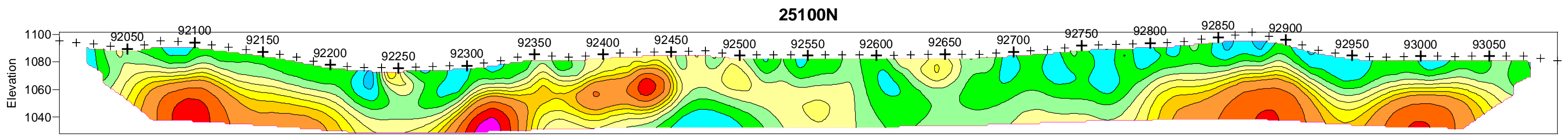
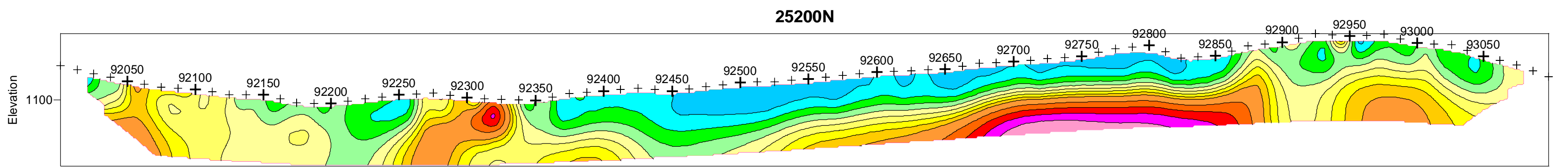
M.A. Kaufman

JAKE PROPERTY
Clearwater area, B.C.

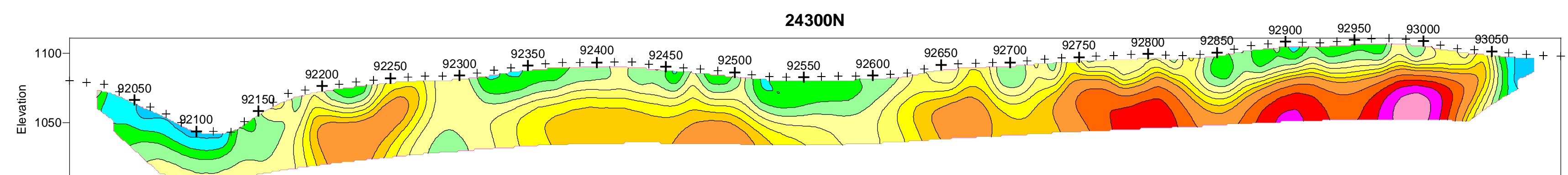
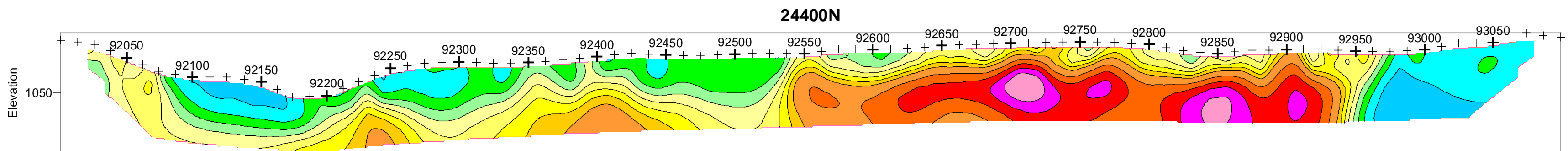
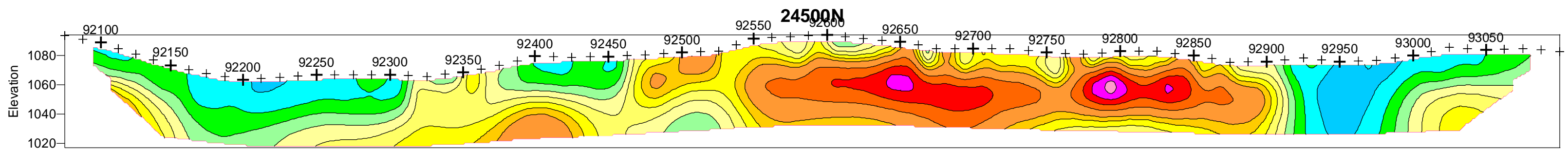
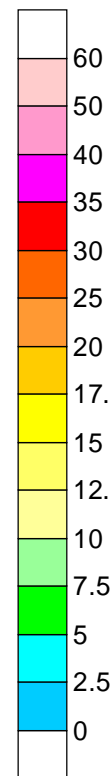
**INDUCED POLARIZATION SURVEY
RES2DINV INVERTED CHARGEABILITY
MODEL SECTIONS AND
2012 PITS 22 - 32**

Oct. 2, 2012

Survey Specifications
 Survey performed:
 Lines 8960N-9050N: June 2007
 Lines 24300N-26600N: August-September 2008
 Receiver: GDD GRx8, Scintrex IPR12
 Transmitter: GDD Tx1
 Pulse time: 2 sec
 Mx receive window: 690-1050 msec
 Array: pole-dipole
 a spacing, n separations: a = 25m, n = 1-5
 Current electrode west of potential electrodes
 RES2DINV true depth inverted sections



Chargeability (mV/V)



METRES



Rimfire Minerals Corp.
 Jake Property
 Clearwater area, B.C.
 Induced Polarization Survey
 RES2DINV inverted chargeability model sections
 Lines 24300N-25200N
 Drawn By: B Scott Date: October 2008
 Scott Geophysics Ltd.

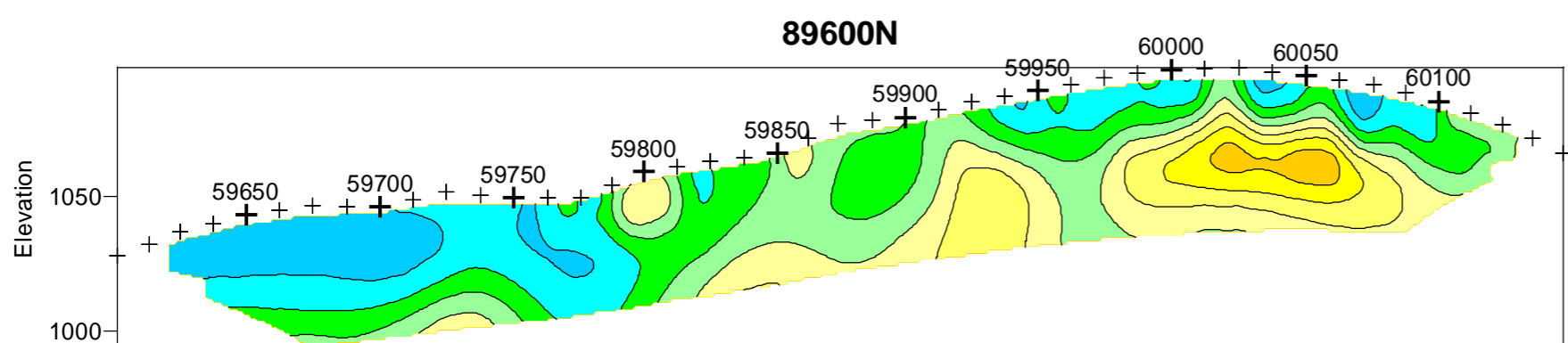
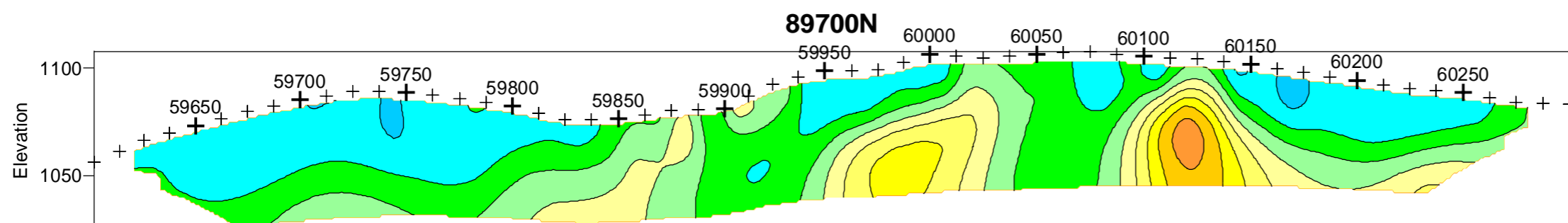
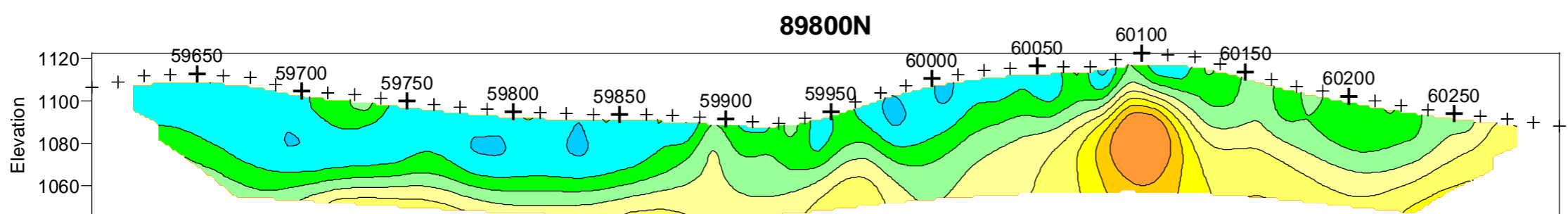
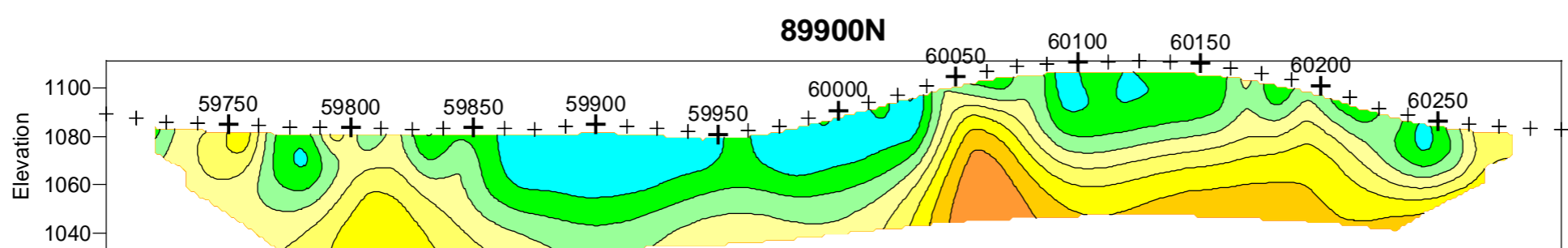
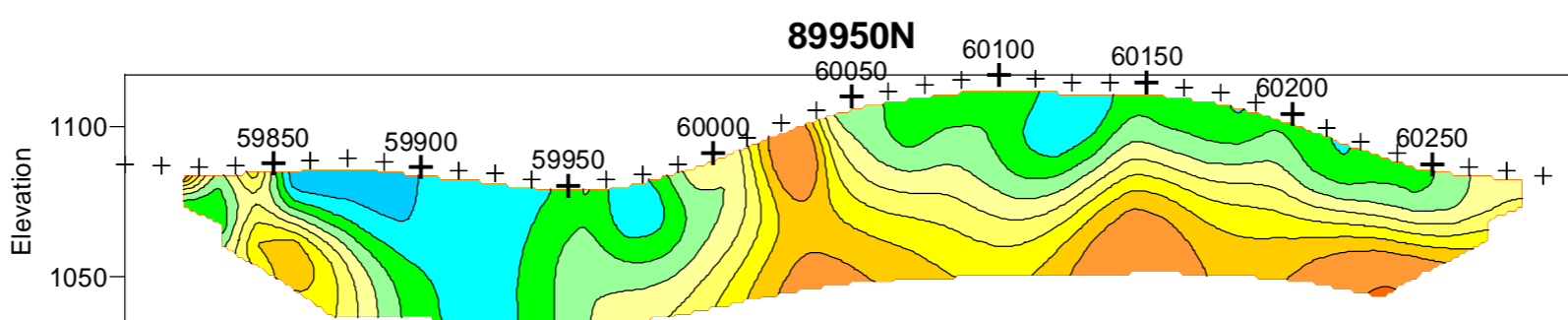
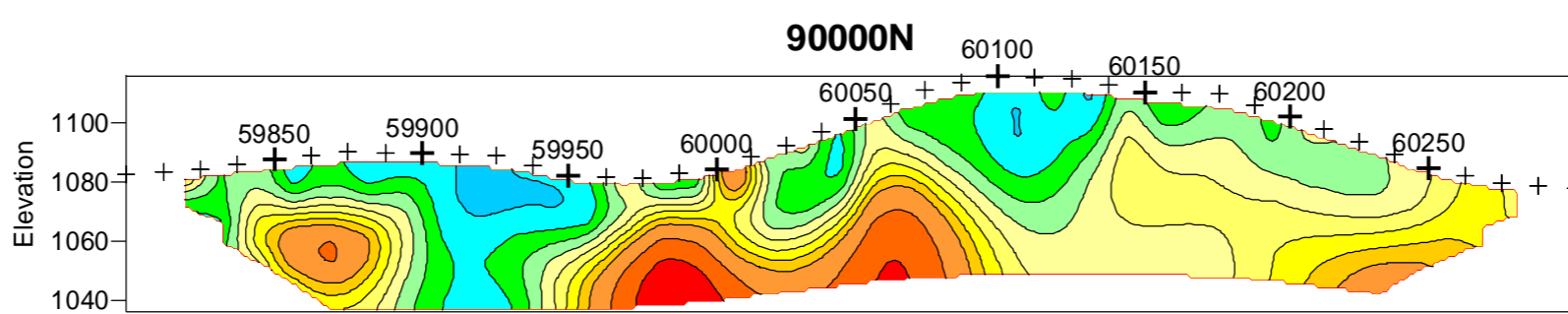
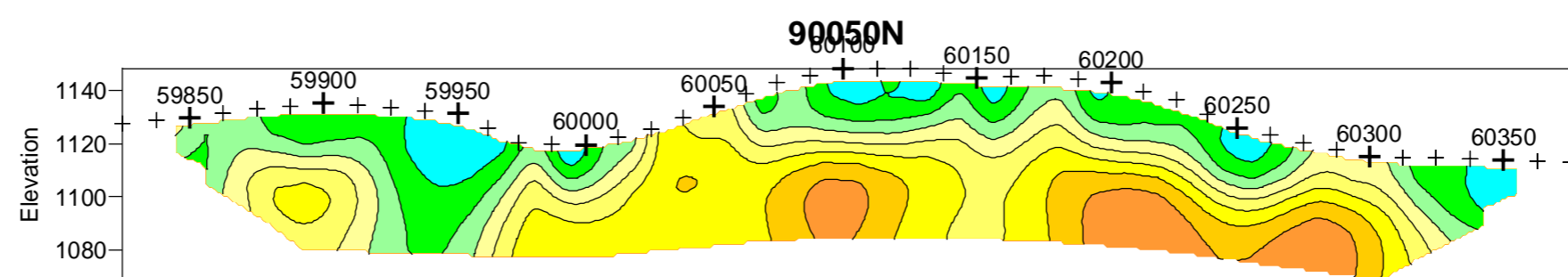
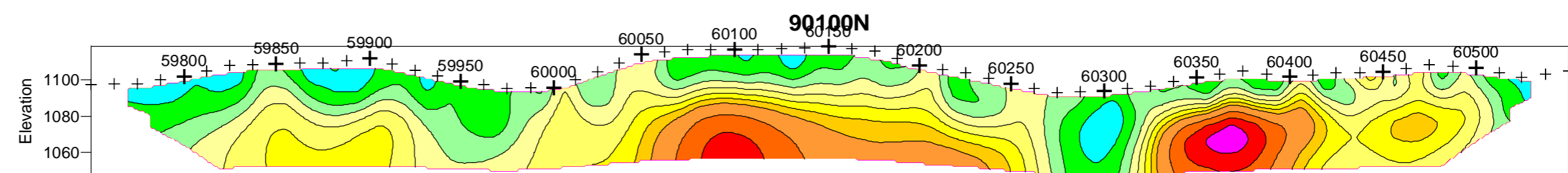
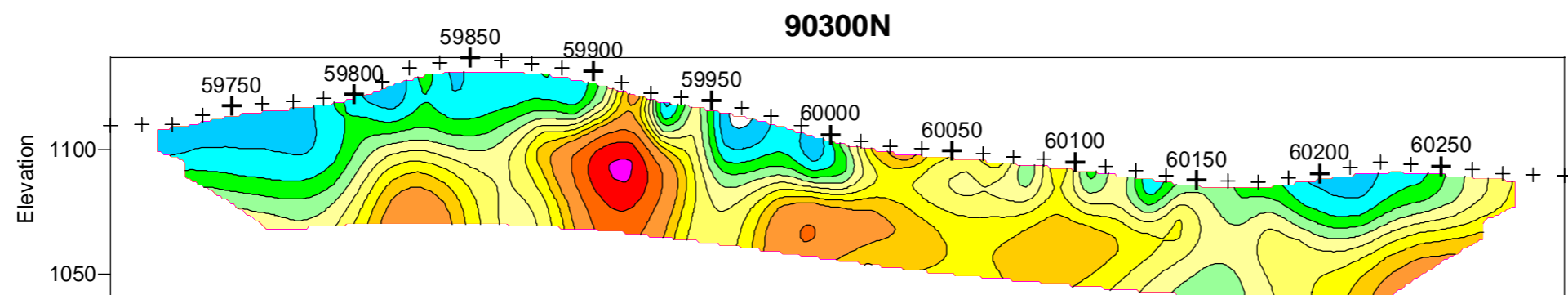
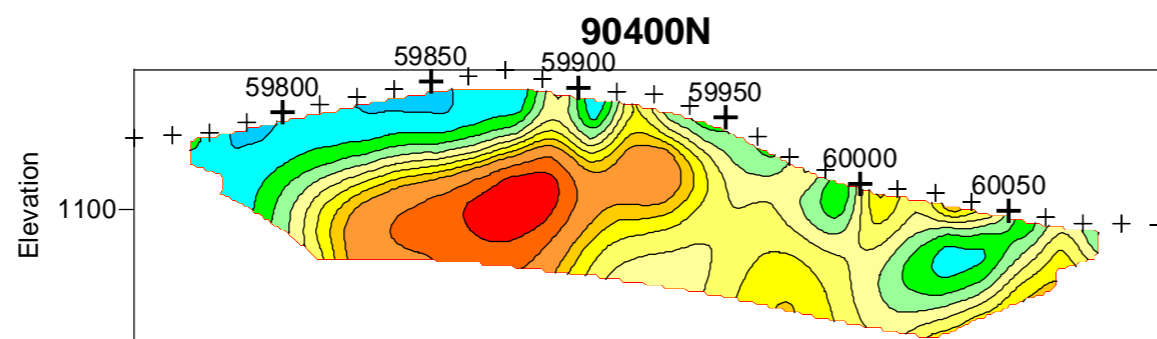
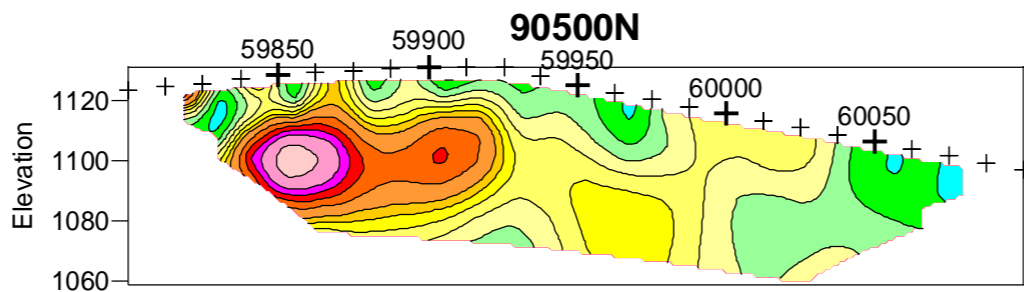
Survey Specifications

Survey performed:
 Lines 89600N-90500N: June 2007
 Lines 24300N-26600N: August-September 2008

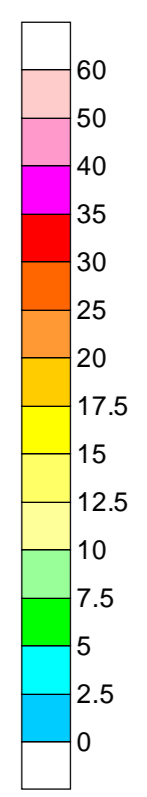
Receiver: GDD GRx8, Scintrex IPR12
 Transmitter: GDD TxII
 Pulse time: 2 sec
 Mx receive window: 690-1050 msec

Array: pole-dipole
 a spacing, n separations: a = 25m, n = 1-5
 Current electrode west of potential electrodes

RES2DINV true depth inverted sections



Chargeability (mV/V)



METRES



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 Clearwater area, B.C.
 Induced Polarization Survey
 RES2DINV inverted chargeability model sections
 Lines 89600N-90500N
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