Arctic Geophysics Inc.

Geophysical Surveys • Prospecting • Consulting

Geoelectrical Surveys with 2D Resistivity
Squaw Creek, Yukon

FIELD WORK

September 19th – 20th 2009

September 14th – 16th 2010

September 15th – 17th 2011

May 21st – 23rd 2012

FOR

Brad Gemmer

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Edmonton, Alberta

T6P 1X8, Canada

FROM

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DATE OF DOCUMENTATION

June 6th 2012

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1. Introduction

This geophysical investigation was done for Brad Gemmer belonging to Gem Steel Edmonton Ltd..

The survey, using 2D Resistivity, was conducted to prospect the ground for placer mining interests. The geophysical prospecting program was focused on measuring and interpreting the following placer-related subsurface characteristics:

1. Depth and topography of bedrock
   Paleochannels, terraces
2. Sedimentary stratification
3. Groundwater, permafrost
4. Mining/prospecting history

The ground was tested with seven measuring lines up to a measuring depth of 70m. Two lines were run in Sept 2009. Another two lines were measured in Sept 2010. Three lines were done in Sept 2011. And three lines were run in May 2012.

This report includes all the seven profiles produced from 2009 to 2011. Updated information in the interpretation of the profiles from 2009, 2010, 2011, and **2012** is written with blue letters!

2. Geophysical Method

Resistivity is not a time domain geophysical method such as Ground Penetrating Radar or Seismic. Resistivity measures a material property. In the Resistivity model the different underground zones are material-dependently differentiated according to their electrical conductivity. Thus, Resistivity promises good chances in respect of measuring the kind and character of the subsurface materials as well as the groundwater distribution, which would be of interest for placer mining. The equipment used (see below) allows for measuring of layer interfaces in depths from 0.5m to 100m by varying the electrode spacing. – Therefore, this prospecting concept is based on the use of 2D Resistivity.

Figure 01: 2D Resistivity/IP measurement, Stefan Ostermaier,
Arctic Geophysics Inc., Yukon 2009 (Moll)

3. Use of Geophysical Method

3.1. Instrumentation

For this survey a lightweight, custom-built 2D RESISTIVITY and INDUCED POLARIZATION (IP) imaging system with rapid data acquisition was used. The system includes:

- "4 POINT LIGHT" EARTH RESISTIVITY METER[1]
- 100 ELECTRODE CONTROL MODULES[2]
- 100 STAINLESS STEEL ELECTRODES[3]
- 500m MULTICORE CABLE: CONNECTOR SPACING: 5m[4]

[1] Constructed and produced by LGM (Germany)
[2] Ditto
[3] Constructed and produced by GEOANALYSIS.DE (Germany)
[4] Ditto

This system weighs approximately 120 kg which is about one third of regular standard equipment. It can be run with a 12V lead battery. The equipment facilitates high mobility and rapid data acquisition with a small crew.

3.2. Data Acquisition

Resistivity

The data acquisition is carried out by the automatic activation of 4-point-electrodes. Thus several thousand measurements are taken, one every 1-2 seconds. The AC transmitter current of 0.26 to 30 Hz is amplified by the electrode control modules, up to a maximum of 100mA and 400V peak to peak. The voltage measured at the receiver electrodes (M, N) is also amplified.
In this geoelectrical survey the **Schlumberger-array** was used. This array is appropriate to image horizontally running layers as is needed for placer prospecting.

The 2D Resistivity imaging system, used for this survey, allows measurements with a depth of up to 100m. With a depth to bedrock of more than 6m, an electrode spacing of 5m can be used for placer surveys. This allows the measuring of large profile lengths in short time with a horizontal measuring resolution of 2.5m. This quantification has proven itself to be reliable in the determination of the bedrock topography and sedimentary arrangement for placer investigation at the most environmental conditions.

The Schlumberger array, used in this geoelectrical survey, is appropriate to measure subsurface conditions predominantly showing a horizontal zoning of the ground materials.

3.3. Processing

Resistivity

The measured Resistivity data were processed with the **RES2DINV** inversion program[5].

3.4. Interpretation

The resistivity profiles are a reliable source for the interpretation of placer-related subsurface aspects of overburden and bedrock.

The interpretation of the data should be verified by physical prospecting methods such as drilling, trenching, or digging test holes since this information about the subsurface cannot be guaranteed!

[5] Produced by GEOTOMO SOFTWARE (Malaysia)

4. Profile image

In the **Resistivity profile** the interpreted layer interfaces are marked with a black line. The profiles show ground-layers approximately 15% thicker than they are in reality. The thickening of the model layers is caused by the inversion software. The **correction factor** of 0.85 for the determination of the true layer thickness has been established by the Arctic Geophysics Inc. team on the basis of numerous geoelectrical profiles verified by drilling, trenching, and mining done by our customers.[6]

The **graphical markings** showing the interpreted layer interfaces in the profiles (using a black line) are done according to the data structure in the profile itself. This means: the layers there will also show up approximately 15% thicker than they are expected in reality. In the interpretation text, the layer thicknesses and depths have been recalculated to the expected real values.

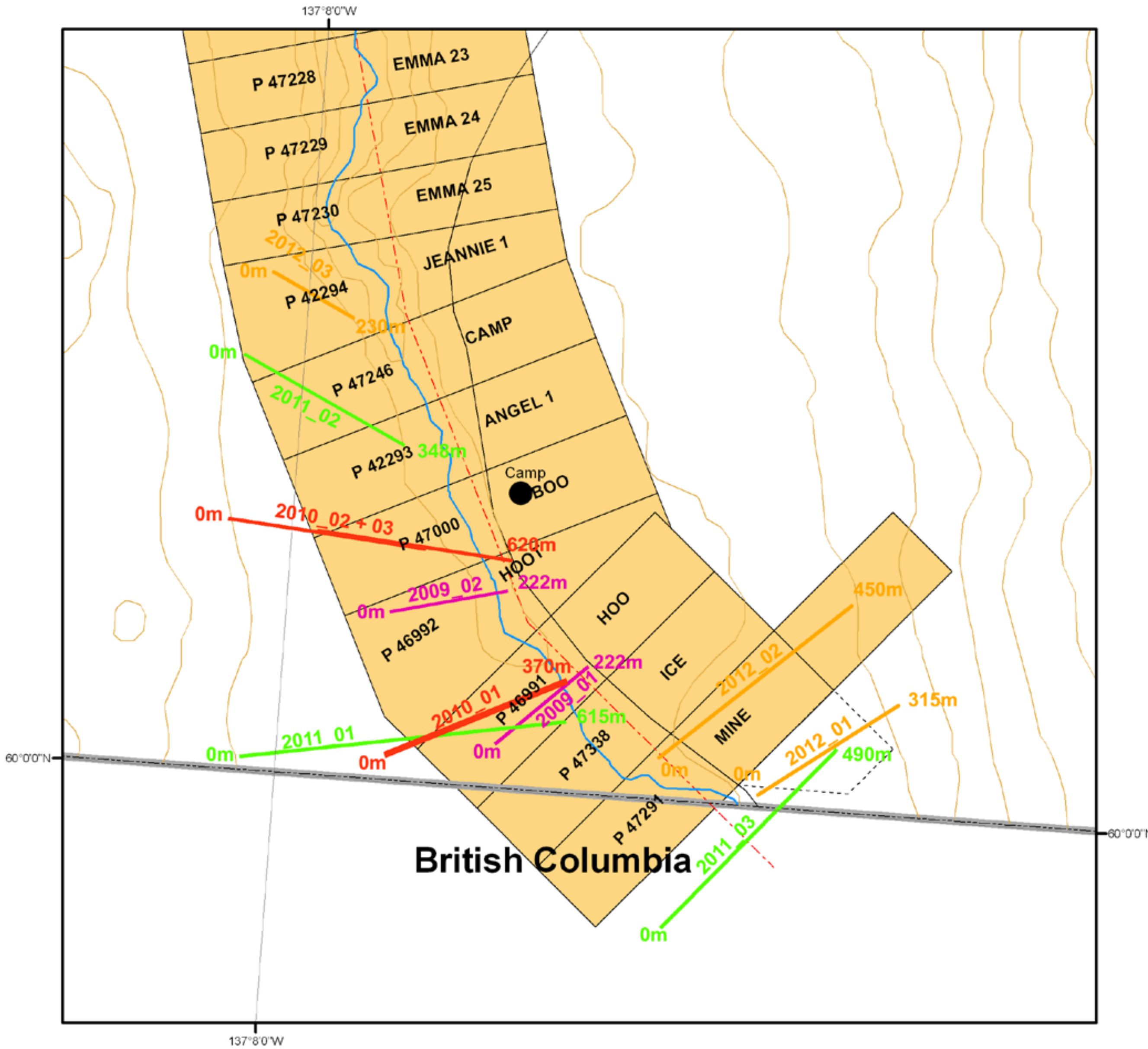
5. Line Arrangement

The **line locations** were discussed and decided upon by Stefan Ostermaier from Arctic Geophysics Inc. and Brad Gemmer. The goal of the survey was to establish the extent of the mining that took place and to see if there was any chance of channels and maybe virgin ground that had not previously been mined.

6. Survey Map

See next page

[6] Program settings in RES2DINV for modifying the layer thickness do frequently not work well for our use and could falsify the profile. That's why this mode was not used.



Legend

- ● Camp

Survey 2012
measuring line

Survey 2011
measuring line

Survey 2010
measuring line

Survey 2009
measuring line

road

contour line

water course

placer baseline

Yukon border

placer claims

Active

Expired

Survey Map

115A03 (Silver Creek)

Universal Transverse Mercator Zone 7
North American Datum 1983

Scale 1:10,000

0 125 250 500 750 1,000 Meters

7. Profiles: Interpretation, Recommendation

Profile 2011_03

Squaw Creek 03_2011
2D Resistivity, Schlumberger array
99 Electrodes: spacing 5m, Horizontal resolution 2.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
Vertical exaggeration in model section display = 1

Data acquisition: Stefan Ostermaier, 17th Sept 2011
Processing: Philipp Moll, 3rd Nov 2011
Profile shows the ground-layers approx. 15% thicker than in reality.
Comments to this/these profile/s are interpretation.

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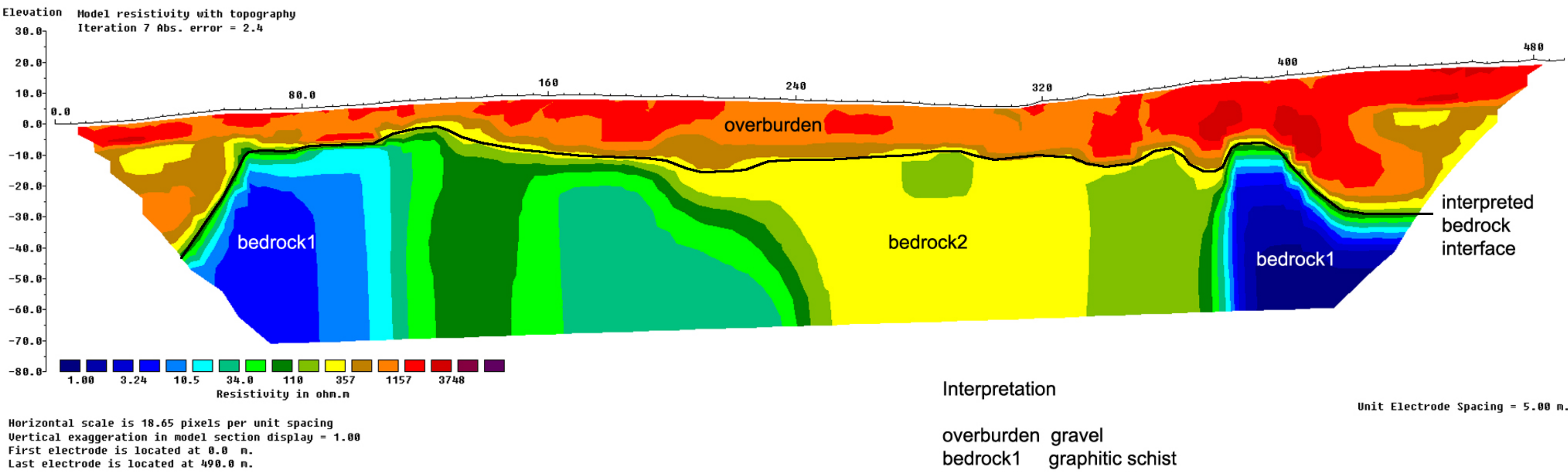

Interpretation

overburden	gravel
bedrock1	graphitic schist
bedrock2	undefined rock

Interpretation

Resistivity Profile 2011_03 shows relatively homogeneous overburden with a thickness of 8-40m on top of heterogeneous bedrock with two possible channels in the bedrock interface. The 40m are updated to 25m based on profile 2012_01.

On the BC side (left) between 0m and 60m the profile shows a potential channel that could be a continuation of the bedrock depression interpreted in Profile 2011_01 leftwards from 300m.

From 65m to 125m the profile line runs parallel to the side of the hill and seems to show 8-11m of overburden in this section. The overburden has continuously high resistivity which would suggest a gravel deposit with a matrix poor in fine sediments such as silt and clay, but rich in sand, or even showing a lack of a matrix. This overburden seems to be dominated by glacial till.

Between 125m and 380m the profile has several depressions in the interpreted bedrock interface: Some shallower bedrock depressions seem to be located at 215m 20m deep, at 305m 14m deep, and at 340m 18m deep. At 355m there appears to be a distinct depression in the bedrock that is apparently 25m deep.

From 395m to the end of the profile, on the Yukon side, the bedrock appears to descend into a channel of app. 40m depth. Profile 2012_01 leads to the interpretation, that this channel in profile 2011_03 might be just around 25m deep.[7] This potential channel is to the north of the current stream bed and could be a paleo-channel that is now buried under the current slope[8].
The bedrock is heterogeneous, with at least two different kinds of bedrock that can be differentiated by its resistivity values. Bedrock_2 that appears to be at the center of the profile (valley), exhibits moderate resistivity values and could be some kind of metamorphic rock. Bedrock_1 that has very high conductivity is most likely graphitic schist.[9]

It is recommended to drill the interpreted bedrock depressions and channels to verify them and its economic viability for placer mining. Also it might be a good idea to extend the resistivity line on the Yukon side to see the extent of the potential channel or channels underneath the slope.

It is recommended to drill the profile at 315m and 375m; there the bedrock could be 20m and 24m deep.

[7] Profile 2011_03 might show the channel on the right edge too deep because of a lack of measured data at the border of the profile; so the too large depth seems to be caused by a fringe effect.
[8] It is quite common that mining operations stopped laterally when the bedrock began to rise and the pay streak ran out. This led to the existence of side channels that remained undisturbed and could provide quite lucrative placer targets.
[9] This type of bedrock was observed close to the camp (for more details see Profile 2011_02).

Profile 2012_01

Squaw Creek 2012_01
2D Resistivity, Schlumberger array
64 Electrodes: spacing 5m, Horizontal resolution 2.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
The profile might show the layers up to 15% thicker than in reality.

Data acquisition: Stefan Ostermaier, 21st May 2012
Processing: Philipp Moll, 1st June 2012
This interpretation of geophysical data should be verified with physical prospecting methods such as drilling, trenching, test pitting, or shafting.

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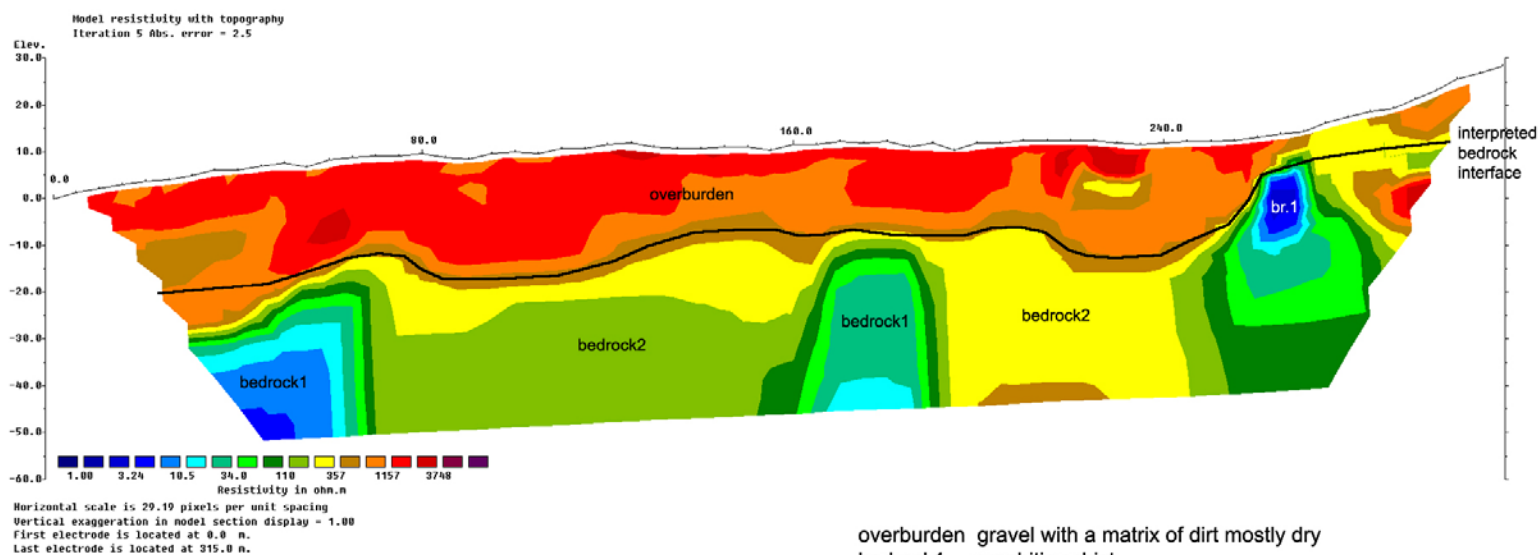
Interpretation



overburden	gravel with a matrix of dirt mostly dry
bedrock1	graphitic schist
bedrock2	undefined rock

Interpretation

Resistivity Profile 2012_01 shows relatively homogeneous overburden with a thickness of 6-23m on top of heterogeneous bedrock with three possible channels in the bedrock interface.

From 0-50m there seems to be a paleo-channel about 20m deep. In the profile, the bedrock interface is imaged deeper than 20m – this seems to be caused by a fringe effect.[10] This possible channel would be the continuation of the channel-shaped bedrock structure in profile 2011_01 at 375m, showing same depth range: 21m!
The overburden has continuously high resistivity which would suggest a gravel deposit with a matrix poor in fine sediments such as silt and clay, but rich in sand, or even showing a lack of a matrix. This homogeneous overburden seems to be dominated by glacial till likely partly reworked by glaciofluvial processes.

At 75-125m there might be a channel about 23m deep at 95m (deepest point). This channel is the continuation of the channel interpreted in profile 2011_03, starting at 400m. In profile 2011_03 the channel is just partly shown and is imaged deeper than expected in reality because of a fringe effect. This large channel seems to be created in the first glacial and post-glacial period of Squaw Creek – being the main channel in this period. A large amount of till and glaciofluvial sediments might have been transported and reworked in this channel. In the past the overburden on this channel was likely much thicker and has been eroded.

At 215-260m there seems to be another channel, about 20m deep at 230m (deepest point). This channel could be a side channel of the first glaciation at Squaw Creek

This profile is made on the right slope of the valley and is located about 20-50m higher (elevation) than the neighbour profiles farer downstream. Thus the channels in profiles 2012_01 and 2012_02 must be geologically younger than the ones in the profiles downstream.

The bedrock is heterogeneous, with at least two different kinds of bedrock that can be differentiated by its resistivity values. Bedrock_2 that appears to be at the center of the profile (valley), exhibits moderate resistivity values and could be some kind of metamorphic rock. Bedrock_1 that has very high conductivity is most likely graphitic schist.[11] The vertical orientation of these bedrock zones could indicate tectonically tilted schist.[12]

It is recommended to drill the profile at 30m, 95m, and 230m; there the bedrock could be 20m, 23m, and 21m deep.

[10] The profile might show the channel on the left edge too deep because of a lack of measured data at the border of the profile; so the too large depth seems to be caused by a fringe effect.

[11] This type of bedrock was observed close to the camp (for more details see Profile 2011_02).

[12] Schist almost vertically layered was observed in the survey area.

Profile 20 12_02

Squaw Creek 2012_02
2D Resistivity, Schlumberger array
91 Electrodes: spacing 5m, Horizontal resolution 2.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
The profile might show the layers up to 15% thicker than in reality.

Data acquisition: Stefan Ostermaier, 22nd May 2012
Processing: Philipp Moll, 1st June 2012
This interpretation of geophysical data should be verified with physical prospecting methods such as drilling, trenching, test pitting, or shafting.

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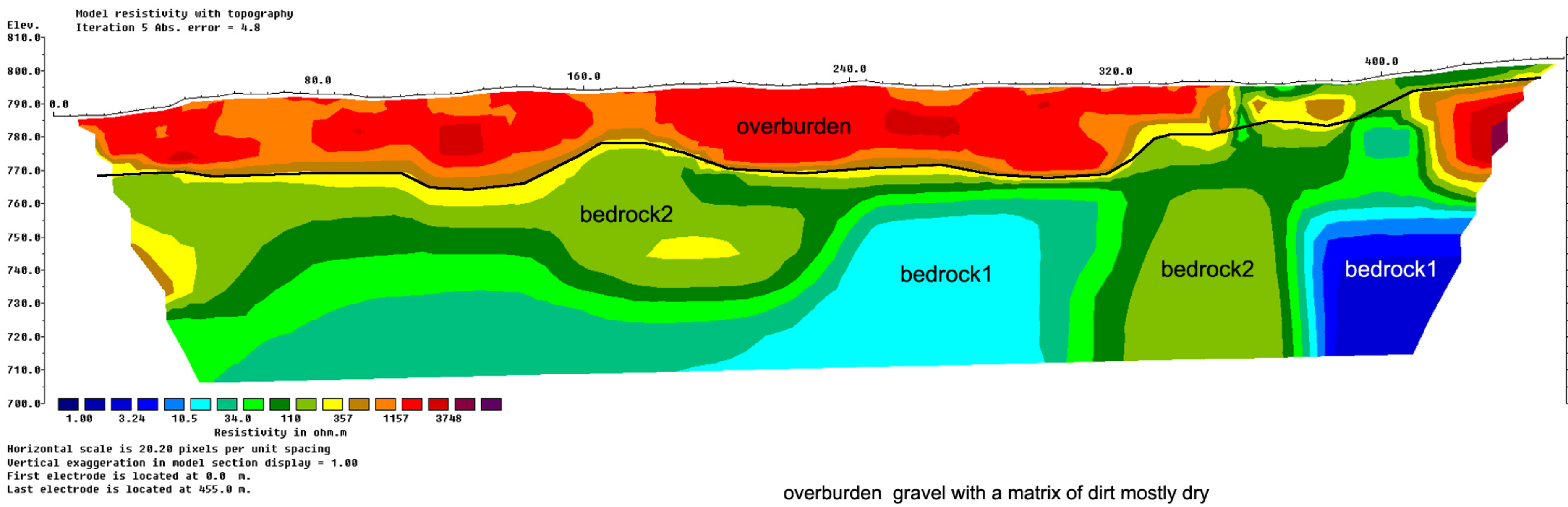
Interpretation



overburden gravel with a matrix of dirt mostly dry
bedrock1 graphitic schist
bedrock2 undefined rock

Interpretation

Resistivity Profile 2012_02 shows relatively homogeneous overburden with a thickness of 5-24m on top of heterogeneous bedrock with three possible channels in the bedrock interface.

From 110-160m and from 190-330m there seem to be two paleo-channels on the terrace, 24m and 23m deep, filled with the same kind of overburden as profiles 2012_01 and 2011_03. These two channels seem to belong to the channel system of the first glacial cycle of Squaw Creek described in profile 2012_01. The right channel seems to be the main channel of this period. Same as in profile 2012_01 a large amount of till and glaciofluvial sediments might have been transported and reworked in these channels. The overburden on it was likely much thicker in the past and has been eroded.

Same as profile 2012_01 this profile is made on the right slope of the valley and is located about 20-50m higher (elevation) than the neighbour profiles farer downstream. Thus the channels in profiles 2012_01 and 2012_02 must be geologically younger than the ones in the profiles downstream.[13]

The bedrock is heterogeneous, with at least two different kinds of bedrock that can be differentiated by its resistivity values. Bedrock_2 that appears to be at the center of the profile (valley), exhibits moderate resistivity values and could be some kind of metamorphic rock. Bedrock_1 that has very high conductivity is most likely graphitic schist.[14] The vertical orientation of these bedrock zones could indicate tectonically tilted schist.[15]

It is recommended to drill the profile at 125m, 220m, and 300m; there the bedrock could be 20m, 18m, and 20m deep.

[13] The elevation measured at profiles 2012_02 and 2011_01 does not allow any comparison since the GPS data were measured much too rough - likely because of the availability of a different data quality from the satellites.

[14] This type of bedrock was observed close to the camp (for more details see Profile 2011_02).

[15] Schist almost vertically layered was observed in the survey area.

Profile 2011_01

Squaw Creek 01_2011
2D Resistivity, Schlumberger array
124 Electrodes: spacing 3m, Horizontal resolution 1.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
Vertical exaggeration in model section display = 1

Data acquisition: Stefan Ostermaier, 15th Sept 2011
Processing: Philipp Moll, 3rd Nov 2011
Profile shows the ground-layers approx. 15% thicker than in reality.
Comments to this/these profile/s are interpretation.

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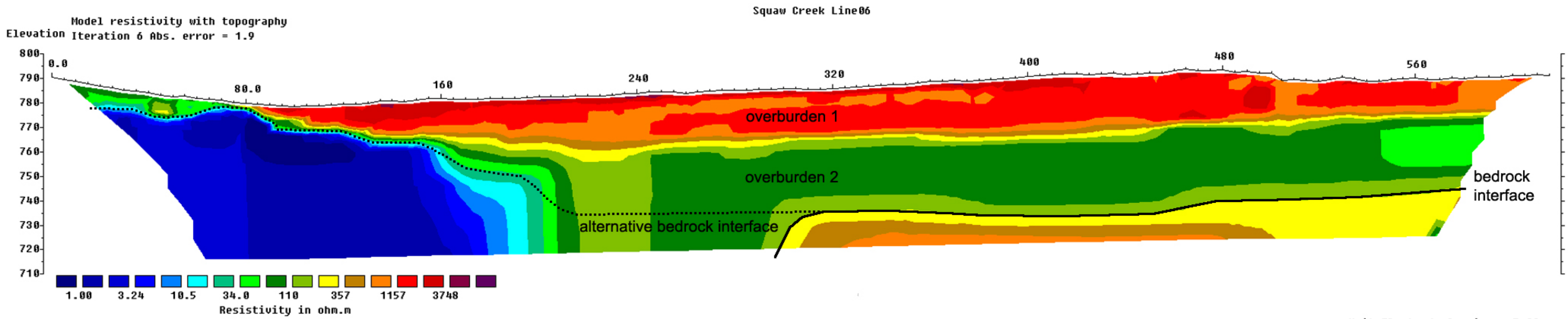


Horizontal scale is 14.95 pixels per unit spacing
Vertical exaggeration in model section display = 1.00
First electrode is located at 0.0 m.
Last electrode is located at 615.0 m.

overburden 1: gravel with a matrix of dirt mostly dry
overburden 2: clay-rich material, possibly very little gravel
bedrock 1: moderately well conducting bedrock, probably some kind of schist
bedrock 2: very well conducting bedrock probably graphitic schist

Interpretation

Resistivity profile 2011_01 shows a distinct two-layered overburden with a thickness of almost uniformly 40m. The bedrock interface could drop down even deeper on the left side of the profile.

The overburden shows two significantly different layers: a layer with high resistivity values (red-orange-brown) starting on the surface with a thickness of 15-20m, and a layer with very low resistivity (blue) and a thickness of 20-25m.
The layer on the surface seems to be gravel with a matrix that is rich in sand and poor in silt and clay, thus resulting in mostly dry gravel with relatively high resistivity values.
The second layer with the low resistivity values consists most likely of clay-rich or silt-rich material: it could be some gravel with a matrix of clay and/or silt or it could be a deposit consisting of fine sediments only. The layer could include components of black muck or mud as well. Doesn't matter which composition – this well conducting layer must be water saturated.
This double-layer structure was previously seen in profiles: 2009_01, 2009_02, 2010_01, and 2010_02+03. The overall thickness of the overburden appears to be increasing from north to south.

The thickening of the overburden in upstream direction plus the fact that in profile 2011_03 there was no well conducting overburden_2 underneath the poorly conducting overburden_1 leads to the theory that the pay gravel which seems to have been lucratively be mined 150m upstream from profile 2011_03, should have been just the poorly conducting overburden_1 seen in many other profiles in this series. This poorly conducting overburden could be have been reworked by glaciofluvial or postglacial streams and thus could contain placer gold deposits. Those placers could mainly be located near the interface where overburden_2 starts below. Overburden_2 could be a clay-rich deposit which would suggest a glaciolacustrine origin. This material could have acted as "false bedrock" and could have collected placer gold. – Alternatively there could be no placers in overburden_01, but that it contains a certain amount of gold homogeneously distributed. This would be the case if overburden_1 would not have been reworked after the glaciation.

At 0-210m overburden_2 seems to change into a material that has even lower resistivity values (dark blue). There are two possible explanations for this: One the blue data zone is indeed overburden that was possibly sedimented during a different time and has retained different but good resistivity from the rest of overburden_2; it could be a clay-rich or highly water saturated fine sediment. Second the dark blue area could actually be bedrock: namely graphitic schist; this kind of bedrock has been seen close to the camp and might also be found here.

From 0-295m the bedrock interface might not have been measured (interpretation one). – Alternatively the bedrock interface could be very shallow in this part of the profile (interpretation two): From 0-80m an overburden layer, 1-5m thick, could be deposited, sitting in a 5m deep tiny channel at 50m, on top of the bedrock (graphitic schist). From 80m to 210m the bedrock interface could gradually drop down to a depth of max. 23m. At 220m it might drop down to an unknown depth; alternatively it stays at around 37m depth. The probability of the two alternative interpretations is: 60% that there was no bedrock measured and 40% for the bedrock (likely graphitic schist).

Between 300m and 465m the bedrock seems to form a 47m deep depression that could be a channel.

From 470m to the end of the profile the bedrock appears to slowly angle upwards.

This profile seems to show the stratigraphy left by the second (last) glaciation of Squaw Creek.

It is recommended that the depths in this profile are confirmed prior to starting work: An easy way to check if there is actually shallow graphitic schist would be to trench at 80m in the profile where bedrock should not be deeper that 2-3m – if there was bedrock measured on the left side of the profile. For the rest of the profile a drill program is recommended.

A difficulty that might arise in mining, is the fact that overburden_2 appears to be very soft; this was seen in profile 2010_02 at 180m where the cat had to stop because the ground became too soft to support it; this again suggests that overburden_2 could be some kind of water saturated sediment rich in fine sediment particles (silt, clay, mud).

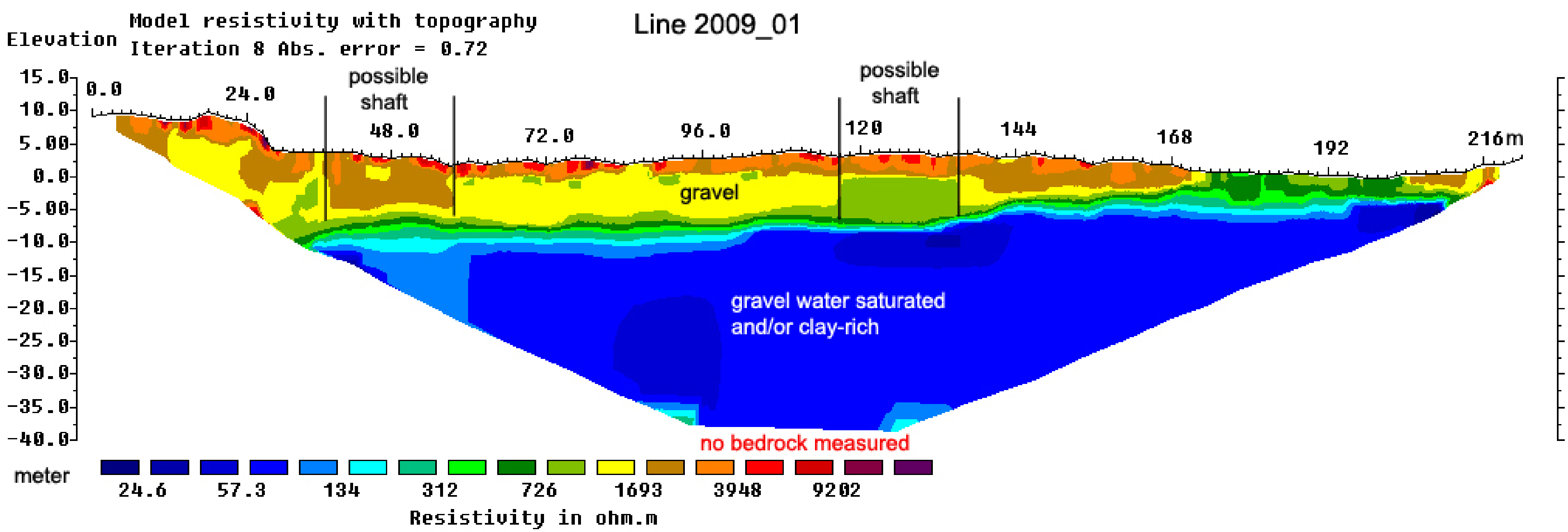
It is recommended to drill the profile at 225m and 415m; there the bedrock could be ?m and 48m deep.

Profile 2009_01

Line: Crossvalley, View: Downstream, Electrodes: 75, spacing 3m, Array: Schlumberger

Location: 0m (N60° 00' 02.7''; W137° 07' 34.5''), 222m (N60° 00'07.6''; W137° 07' 24.3'')

Date: Sept. 19th 2009



Interpretation

In Profile 2009_01, the green/yellow/brown **overburden** might be gravel. This gravel seems to contain little fine material such as sand and silt. That is why this kind of gravel holds little water which causes higher resistivity. This kind of gravel has been observed on the surface.

The topmost portions of the gravel (orange/red) could be disturbed by historical mining activity.

The blue zone, about 10m deep at 30-130m in the profile, we interpret as gravel which is saturated with groundwater and/or gravel which is clay rich.

From 40 to 60m and from 117 to 135m in the profile there are disturbances in the upper gravel. These disturbances could represent shafts dug during former mining activity. The disturbance from 40 to 60m in the profile has higher resistivity values than the surrounding gravel which indicates washed gravel. The second disturbance at 117 to 135m has a higher conductivity which indicates gravels higher saturated with water.

Alternatively, the blue well conducting layer could be some clay-rich overburden which could have been acted as "false bedrock". Thus the poorly conducting overburden sitting right on top of the hypothetic false bedrock layer could contain placer gold deposits. The origin of those possible placer gold deposits is described any further in the interpretation of profile 2011_01. This theory could be checked by drilling.

This profile seems to show the stratigraphy left by the second (last) glaciation of Squaw Creek.

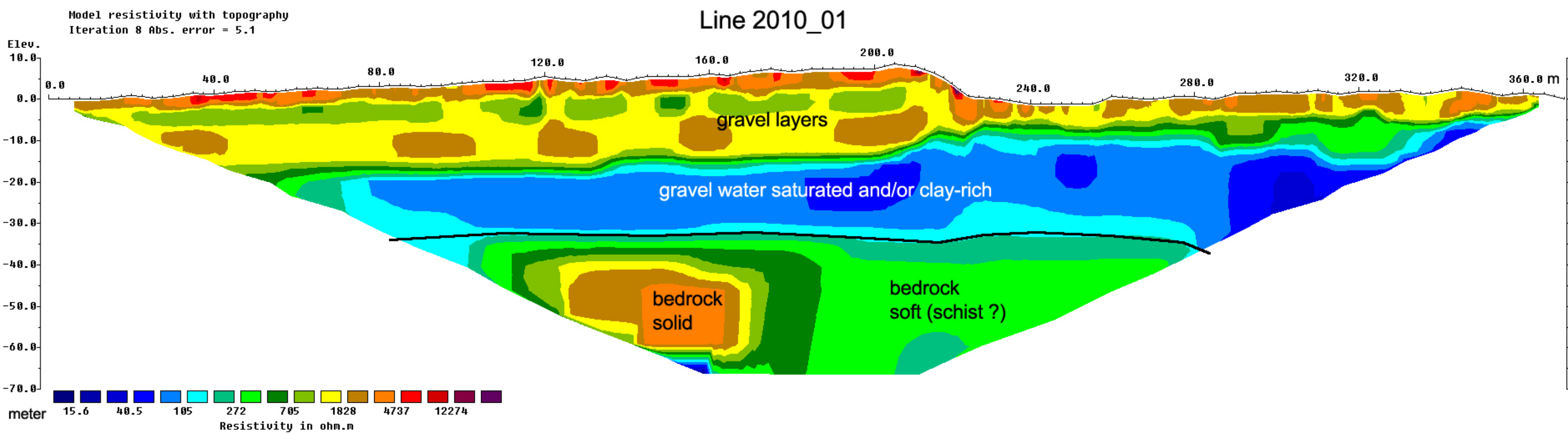
This profile is recommended not to be drilled.

Profile 2010_01

Line: Crossvalley, View: Downstream, Electrodes: 75, spacing 5m, Array: Schlumberger

Location: 0m (N60° 00' 01.6''; W137° 07' 47.3''), 370m (N60° 00' 06.7''; W137° 07' 26.6'')

Date: Sept 14th 2010



Interpretation

Profile 2010_01 shows a distinctly layered structure.

The **bedrock** appears to be mostly level in a depth of 26-31m. The bedrock presents a horizontally alternating pattern of highly varying resistivity from 400 Ohm meter (lime green) to 4000 Ohm meter (orange). These data indicate some changes in the bedrock.
The lime green bedrock zone might be a soft bedrock type, likely a schist since schist has been seen at a bedrock outcrop 200m downstream. The brown/orange bedrock zone seems to be a solid bedrock type as seen on the surface about 100m downstream.

The **overburden** appears to be divided into two distinct layers:
First, we see a very well conducting layer (blue) directly on top of bedrock. Its thickness is 13-21m. This layer we interpret as a gravel layer saturated with groundwater or gravel which is clay rich.
Second, there is less well conducting layer (yellow/brow/green/red-orange) above the groundwater table. Its thickness is 5-18m. At 0-210m in the line, this gravel layer is divided into three sublayers losing conductivity in an upwards direction. These gravel layers seem to lose moisture in an upstream direction. The driest material is located on the surface.

Alternatively, the blue well conducting layer could be some clay-rich overburden which could have been acted as "false bedrock". Thus the poorly conducting overburden sitting right on top of the hypothetic false bedrock layer could contain placer gold deposits. The origin of those possible placer gold deposits is described any further in the interpretation of profile 2011_01. This theory could be checked by drilling.

This profile seems to show the stratigraphy left by the second (last) glaciation of Squaw Creek.

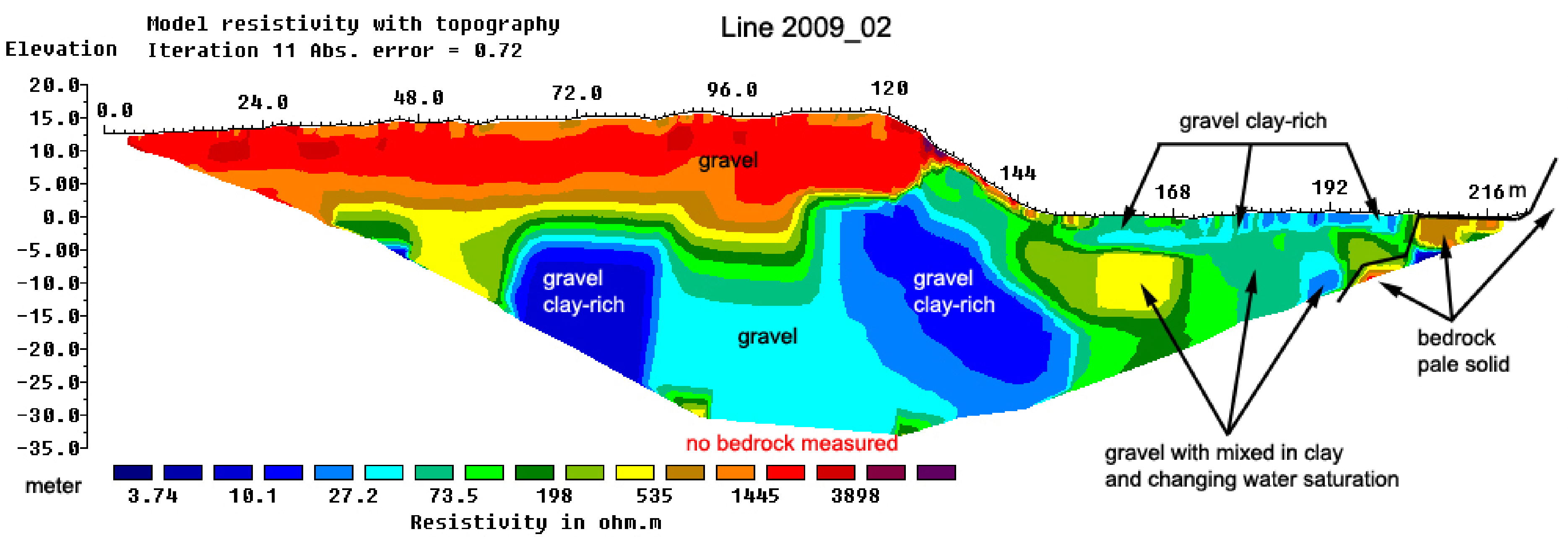
It is recommended to drill the profile at 200m; there the bedrock could be 35m deep.

Profile 2009_02

Line: Crossvalley, View: Downstream, Electrodes: 75, spacing 3m, Array: Schlumberger

Location: 0m (N60° 00’ 10.0’’; W137° 07’ 47.9’’), 222m (N60° 00’ 11.7’’; W137° 07’ 34.3’’)

Date: Sept. 20th 2009



Interpretation

The blue, well conducting material in the depth is likely some clay-rich, water saturated **gravel**. At 72m in the line it starts at 14m depth.
The red, low conducting layer on top might also be gravel with little moisture. This gravel might contain little fine material such as sand and silt.

At 96m there is a depression in the interpreted clay-rich gravel. This depression could be a created by a paleo-stream which did cut into gravel, not into bedrock.

At 140-205m the overburden seems to be a mixture of gravel, sand, silt, and clay with changing water saturation.

After 205m some pale solid **bedrock** appears on the surface. Aside from this bedrock no other bedrock seems to have been measured in this profile.

Alternatively, the blue well conducting layer could be some clay-rich overburden which could have been acted as “false bedrock”. Thus the poorly conducting overburden sitting right on top of the hypothetic false bedrock layer could contain placer gold deposits. The origin of those possible placer gold deposits is described any further in the interpretation of profile 2011_01. This theory could be checked by drilling.

This profile seems to show the stratigraphy left by the second (last) glaciation of Squaw Creek.

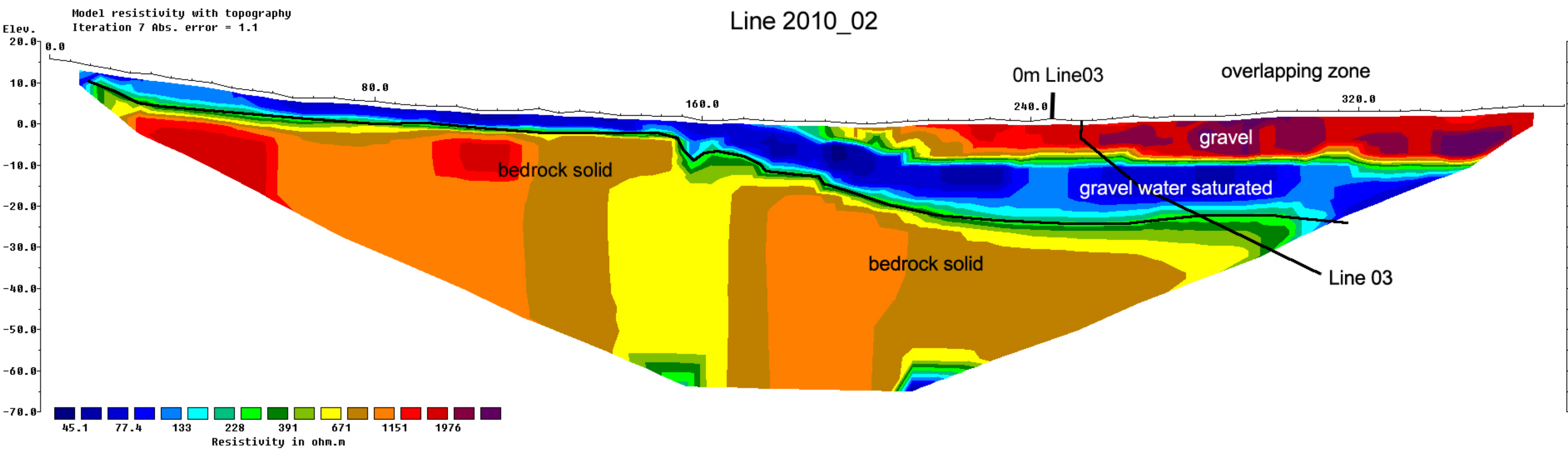
It is recommended to drill the profile at 99m; there the bedrock could be ?m deep.

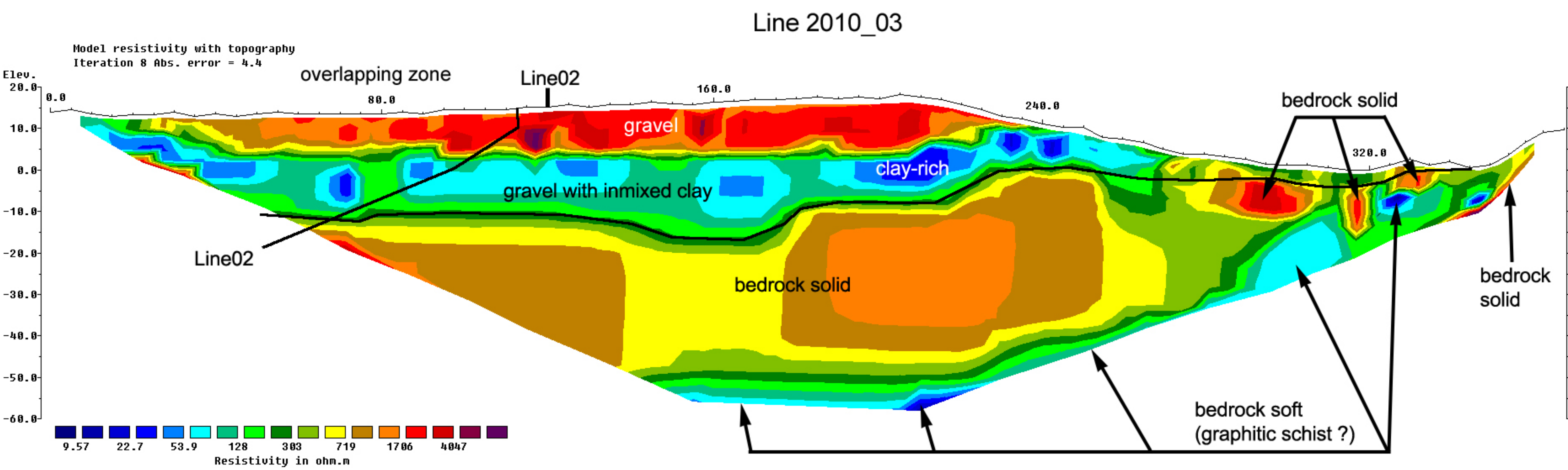
Profiles 2010_02+03

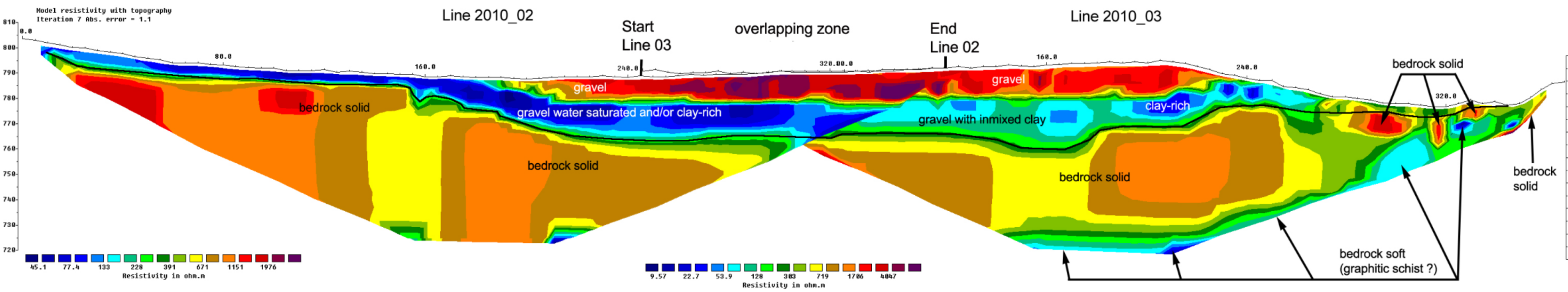
Line: Crossvalley, View: Downstream, Electrodes: 75, spacing 5m each, Array: Schlumberger

Location Profile02: 0m (N60° 00′ 14.8′′; W137° 08′ 07.6′′), 370m (N60° 0 0′ 13.8′′; W137° 07′ 44.2′′); Date: Sept. 15th 2010

Location Profile03: 0m (N60° 00′ 14.5′′; W137° 07′ 57.0′′), 370m (N60° 00′ 13.5′′; W137° 07′ 34.0′′); Date: Sept. 16th 2010






Model resistivity with topography
Iteration 7 Abs. error = 1.1
Line 2010_02
Start
Line 03
overlapping zone
End
Line 02
Line 2010_03
gravel
gravel
bedrock solid
gravel water saturated and/or clay-rich
gravel with inmixed clay
clay-rich
bedrock solid
bedrock solid
bedrock solid
bedrock solid
bedrock soft
(graphitic schist ?)
45.1 77.4 133 228 391 671 1151 1976
Resistivity in ohm.m
9.57 22.7 53.9 128 303 719 1706 4047
Resistivity in ohm.m

Interpretation

The resistivity Profiles 2010_02 and 2010_03 are overlapping each other for 120m.

From 0-150m in Profile02 the **bedrock** (solid type) is with a depth of only 3-5m very shallow.

After 150m in Profile02, the bedrock drops.

At 240m in Profile02, the bedrock measures 20m depth.

From there up to 210m in profile 03, the bedrock stays constantly at 20-22m depth –aside from a 30m-wide **paleochannel** located at 160m in Profile03.

After 210m in Profile 03, the bedrock gets more and more shallow forming a hump.

After 240m in Profile 03, the ground seems to show a mosaic representing different kinds of bedrock: some well conducting bedrock likely schist, and some low conducting solid bedrock.

On top of the bedrock a blue well conducting layer was measured. It ends at 250m in profile 03. This layer we interpret as water saturated **gravel** which might show increasing amounts of clay to the right side.

On top of the blue gravel layer a red low conducting gravel layer is interpreted (from 200m in Profile02 to 240m in Profile03). This gravel might contain little fine material.

Both gravel layers continue with an almost uniform thickness of 7-10m (red layer) and 10-12m (blue layer) throughout the profiles until they reach the current streambed at 240m in Profile03. There, they seem to have been eroded away.

Alternatively, the blue well conducting layer could be some clay-rich overburden which could have been acted as “false bedrock”. Thus the poorly conducting overburden sitting right on top of the hypothetic false bedrock layer could contain placer gold deposits. The origin of those possible placer gold deposits is described any further in the interpretation of profile 2011_01. This theory could be checked by drilling.

This profile seems to show the stratigraphy left by the first and second glaciation of Squaw Creek.

It is recommended to drill the profile_03 at 160m; there the bedrock could be 28m deep.

Profile 2011_02

Squaw Creek 02_2011
2D Resistivity, Schlumberger array
117 Electrodes: spacing 3m, Horizontal resolution 1.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
Vertical exaggeration in model section display = 1

Data acquisition: Stefan Ostermaier, 16th Sept 2011
Processing: Philipp Moll, 3rd Nov 2011
Profile shows the ground-layers approx. 15% thicker than in reality.
Comments to this/these profile/s are interpretation.

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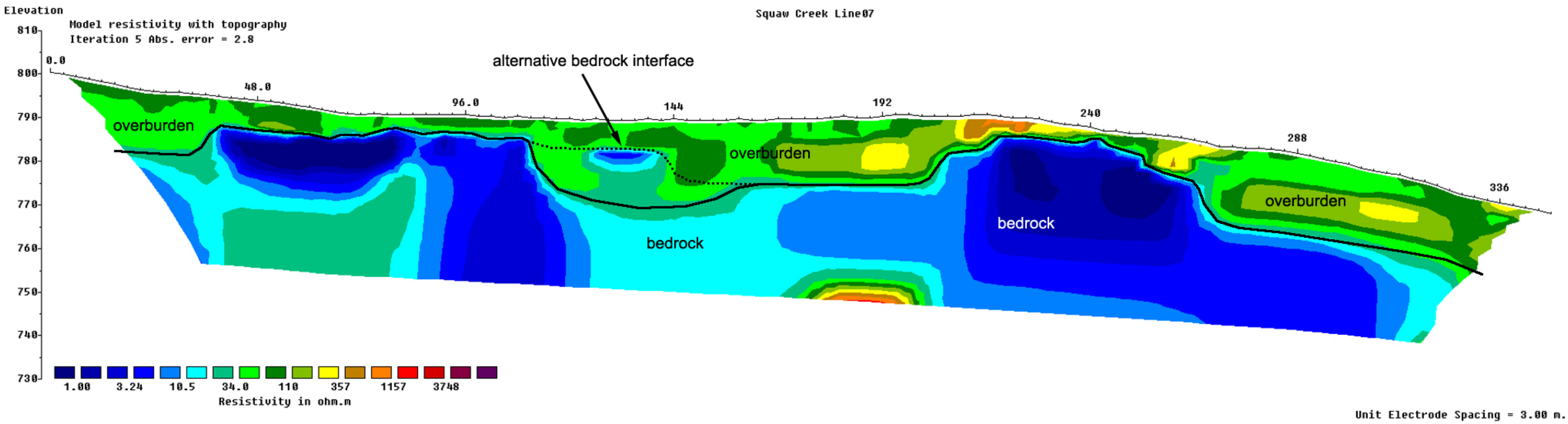

Vertical exaggeration in model section display = 1.00
First electrode is located at 0.0 m.
Last electrode is located at 348.0 m.

overburden: gravel with a matrix of dirt mostly dry
bedrock: very well conducting bedrock probably graphitic schist

Interpretation

The bedrock interface interpreted in profile 2011_02 is most likely. It shows several possible channels. The bedrock appears to be very well conducting and rather homogeneous. The overburden might be 2-17m thick.

Between 0m and 40m in the profile there appears to be a 12m deep channel just at the beginning of the profile. This might be a secondary channel to the main channel at 150m.

From 40m to 110m the bedrock seems to form a 'plateau' with a depth of 2-6m.

Between 110m and 220m the main channel seems to be located having likely a max. depth of up to 16m at 140m in the profile. The overburden in this interpreted channel as well as all the overburden from the beginning of the profile to 190m is well conducting. This material could be similar to the material overlying the bedrock in profile 2011_01 (blue layer): This might be a deposit rich in fine sediments such as clay. From 190m all the way to the end of the profile there appear pockets of overburden with poorer conductivity (yellow); these could be due to slightly different (higher) amounts of sand.

Alternatively, the 'plateau' in the bedrock interface could continue to 144m forming a channel between 144m and 220m with a depth of up to 14m at 190m. This alternative interpretation is postulated because of the lens of very well conducting material seen at 135m in a depth of 7-10m. This lens could either be clay.

In the area between 220m and 267m the bedrock appears to form a hump with the shallowest spot at 243m presenting a depth of only 2m. The edges of this hump, as all the changes in bedrock depth seen in this profile, are rather steep. This is consistent with the bedrock outcrops, seen in the creek close to the camp, showing nearly vertical layer interfaces (see 8. Gallery).

The bedrock at this location and most likely throughout the profile is graphitic schist, which was observed on the opposite side of the creek close to the camp; several hand sized pieces of graphitic schist were observed at this location, while setting up the measuring equipment.

From 267m to the end of the profile the bedrock interface seems to be in a depth of app. 16-17m, with a gradual decline towards the creek after the first steep drop at 267m.

It is recommended to drill the interpreted channels to confirm their depth and economic viability.

From this profile the theory of two dominating glacial cycles at Squaw Creek can be derived. The bedrock channel from 109m to 219m could be eroded while the first glaciation. The bedrock depression after 240m could be created by the second glaciations. The bedrock depression left from 39m could be associated with the second glaciation or could (less likely) be pre-glacial.

It is recommended to drill the profile at 27m, 132m, 192m, and 267m; there the bedrock could be 12m, 17m, 13m, and 15m deep.

Profile 2012_03

Squaw Creek 2012_03

2D Resistivity, Schlumberger array
48 Electrodes: spacing 5m, Horizontal resolution 2.5m
Horizontal and vertical measure in [meter], Iteration error in [%]
The profile might show the layers up to 15% thicker than in reality.

Data acquisition: Stefan Ostermaier, 23nd May 2012
Processing: Philipp Moll, 1st June 2012
This interpretation of geophysical data should be verified with physical prospecting methods such as drilling, trenching, test pitting, or shafting.

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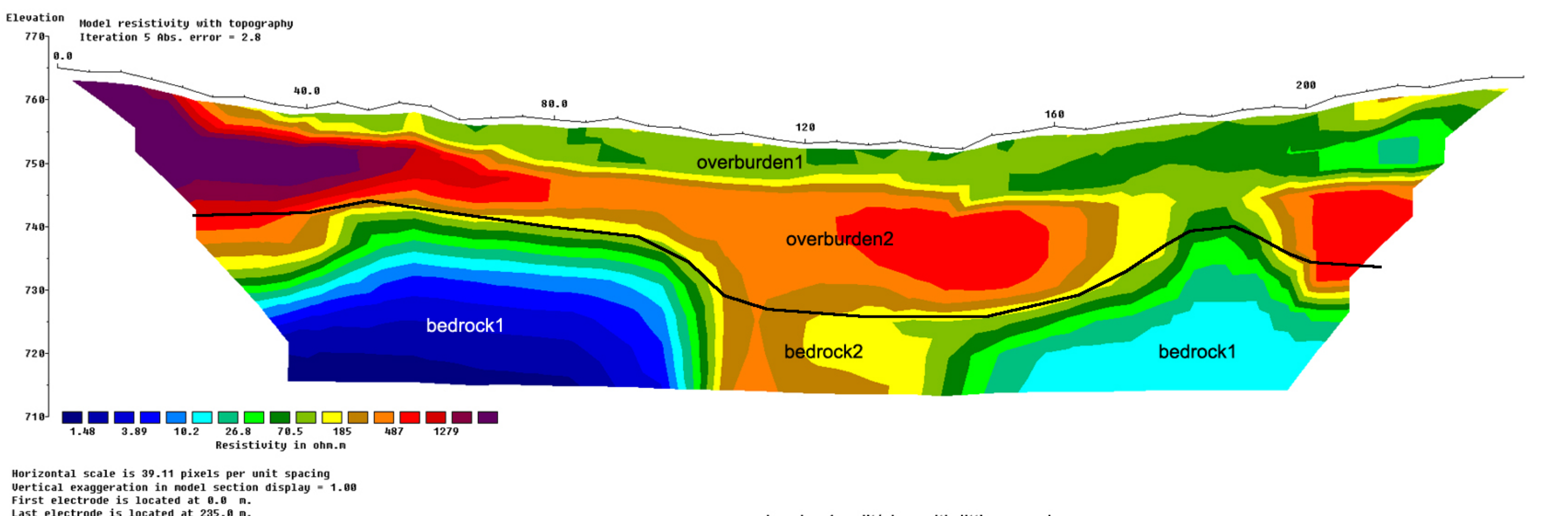
Interpretation



overburden1: silt/clay with little gravel
overburden2: gravel with a matrix of dirt mostly dry
bedrock1: very well conducting bedrock probably graphitic schist
bedrock2: undefined rock, possibly schist

Interpretation

In this section of the valley the overburden seems to be bi-layered again.

At 100-180m a prominent channel seems to be located in the middle of the profile/valley. At 135m this channel seems to be 24m deep.

The topmost overburden layer (green) is 5-9m thick and might consist of fine sediment dominated by silt and clay with little gravel in it. This might be the same/similar material as the second layer (blue) in profiles 2010_02/_03. The origin of this material is mainly glaciolacustrine but also glaciofluvial.

The second overburden layer (red) 14-18m thick, is most likely again till partly reworked by glaciofluvial processes.

On both sides of the profile the bedrock interface seems to show a secondary channel or terrace. These features are only partly seen in the profile and could be created while the first glacial period.

It is recommended to drill the profile at 30m, 135m and 210m; there the bedrock could be 16m, 24m, and 23m deep.

8. Gallery

Figure 02: Survey Area, looking upstream


Figure 03: Photo made on Line 2010_3 at 340m, looking downstream: solid metamorphic bedrock


Figure 04: Ditto looking upstream: schistoid bedrock fractured and weathered, tectonically folded (almost vertically foliated)

Figure 05: Mining Camp

Figure 06: Survey area looking upstream, Line 2011_03 located in front of gravel pile

9. Qualifications

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• Study of geology, University of Freiburg, Germany

• Visit of geophysical field courses, University of Karlsruhe and University of Stuttgart, Germany

• Working for Arctic Geophysics Inc. since June 2007 (foundation)
Geophysical field surveys using 2D Resistivity, Induced Polarization, Magnetics: Data acquisition, processing, interpretation, documentation

• Geophysical surveying for Mining Exploration in the Yukon since 2005

• Geological Prospecting for precious metals and minerals in the Yukon, NWTs, and Alaska since 1989

• Publications:

A) Numerous Assessment Reports about geophysical surveys done for Yukon mining companies, filedat Yukon Mining Recorder

B) Geophysical survey (45 field days) for Yukon Government: Yukon Geological Survey,
Publication:
http://www.geology.gov.yk.ca/recent.html Open Files: Moll, P., &Ostermaier, S., 2010. 2D Resistivity/IP Data Release for Placer Mining and shallow Quartz Mining - Yukon 2010.Yukon Geological Survey Miscellaneous Report MR-4.PDF Report [10.3 MB] &Data Profiles [45.4 MB]

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  http://www.geology.gov.yk.ca/recent.html Open Files: Moll, P., &Ostermaier, S., 2010. 2D Resistivity/IP Data Release for Placer Mining and shallow Quartz Mining - Yukon 2010.Yukon Geological Survey Miscellaneous Report MR-4.PDF Report [10.3 MB] &Data Profiles [45.4 MB]

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Stefan Ostermaier

10. Appendix

Literature

Literature – Background

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Maps

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Geophysical Data Table

Rock type	Resistivity range (Ωm)
Granite porphyry	4.5×10^3 (wet) – 1.3×10^6 (dry)
Feldspar porphyry	4×10^3 (wet)
Syenite	$10^2 - 10^6$
Diorite porphyry	1.9×10^3 (wet) – 2.8×10^4 (dry)
Porphyrite	$10 - 5 \times 10^4$ (wet) – 3.3×10^3 (dry)
Carbonatized porphyry	2.5×10^3 (wet) – 6×10^4 (dry)
Quartz diorite	$2 \times 10^4 - 2 \times 10^6$ (wet) –1.8×10^5 (dry)
Porphyry (various)	$60 - 10^4$
Dacite	2×10^4 (wet)
Andesite	4.5×10^4 (wet) – 1.7×10^2 (dry)
Diabase (various)	$20 - 5 \times 10^7$
Lavas	$10^2 - 5 \times 10^4$
Gabbro	$10^3 - 10^6$
Basalt	$10 - 1.3 \times 10^7$ (dry)
Olivine norite	$10^3 - 6 \times 10^4$ (wet)
Peridotite	3×10^3 (wet) – 6.5×10^3 (dry)
Hornfels	8×10^3 (wet) – 6×10^7 (dry)
Schists (calcareous and mica)	$20 - 10^4$
Tuffs	2×10^3 (wet) – 10^5 (dry)
Graphite schist	$10 - 10^2$
Slates (various)	$6 \times 10^2 - 4 \times 10^7$
Gneiss (various)	6.8×10^4 (wet) – 3×10^6 (dry)
Marble	$10^2 - 2.5 \times 10^8$ (dry)
Skarn	2.5×10^2 (wet) – 2.5×10^8 (dry)
Quartzites (various)	$10 - 2 \times 10^8$
Consolidated shales	$20 - 2 \times 10^3$
Argillites	$10 - 8 \times 10^2$
Conglomerates	$2 \times 10^3 - 10^4$
Sandstones	$1 - 6.4 \times 10^8$
Limestones	$50 - 10^7$
Dolomite	$3.5 \times 10^2 - 5 \times 10^3$
Unconsolidated wet clay	20
Marls	3 – 70
Clays	1 – 100
Oil sands	4 – 800

GPS Data Table

Profile 2011_03

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N59 59.876 W137 07.227	3	*
2	5.0	N59 59.878 W137 07.223	3	
3	10.0	N59 59.880 W137 07.219	3	
4	15.0	N59 59.882 W137 07.215	3	
5	20.0	N59 59.883 W137 07.211	3	
6	25.0	N59 59.886 W137 07.207	3	
7	30.0	N59 59.887 W137 07.203	3	
8	35.0	N59 59.889 W137 07.199	3	
9	40.0	N59 59.890 W137 07.195	3	
10	45.0	N59 59.892 W137 07.191	3	
11	50.0	N59 59.894 W137 07.187	3	
12	55.0	N59 59.896 W137 07.184	3	
13	60.0	N59 59.898 W137 07.181	3	
14	65.0	N59 59.901 W137 07.178	3	
15	70.0	N59 59.903 W137 07.175	3	
16	75.0	N59 59.905 W137 07.172	3	
17	80.0	N59 59.906 W137 07.167	3	
18	85.0	N59 59.909 W137 07.162	3	
19	90.0	N59 59.910 W137 07.158	3	
20	95.0	N59 59.911 W137 07.152	3	
21	100.0	N59 59.913 W137 07.147	3	
22	105.0	N59 59.914 W137 07.144	3	
23	110.0	N59 59.915 W137 07.140	3	
24	115.0	N59 59.917 W137 07.135	3	*
25	120.0	N59 59.918 W137 07.130	3	
26	125.0	N59 59.919 W137 07.127	3	
27	130.0	N59 59.921 W137 07.124	3	
28	135.0	N59 59.923 W137 07.123	3	
29	140.0	N59 59.926 W137 07.121	3	
30	145.0	N59 59.929 W137 07.121	3	
31	150.0	N59 59.932 W137 07.121	3	
32	155.0	N59 59.934 W137 07.121	3	
33	160.0	N59 59.937 W137 07.120	3	
34	165.0	N59 59.939 W137 07.120	3	
35	170.0	N59 59.942 W137 07.119	3	
36	175.0	N59 59.945 W137 07.115	3	
37	180.0	N59 59.947 W137 07.115	3	
38	185.0	N59 59.949 W137 07.113	3	
39	190.0	N59 59.951 W137 07.112	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
40	195.0	N59 59.954 W137 07.110	3	
41	200.0	N59 59.957 W137 07.109	3	
42	205.0	N59 59.959 W137 07.107	3	
43	210.0	N59 59.962 W137 07.106	3	
44	215.0	N59 59.964 W137 07.105	3	
45	220.0	N59 59.967 W137 07.104	3	
46	225.0	N59 59.970 W137 07.103	3	
47	230.0	N59 59.972 W137 07.100	3	
48	235.0	N59 59.976 W137 07.099	3	
49	240.0	N59 59.979 W137 07.097	3	*
50	245.0	N59 59.981 W137 07.096	3	
51	250.0	N59 59.983 W137 07.094	3	
52	255.0	N59 59.985 W137 07.092	3	
53	260.0	N59 59.988 W137 07.090	3	
54	265.0	N59 59.991 W137 07.088	3	
55	270.0	N59 59.993 W137 07.086	3	
56	275.0	N59 59.996 W137 07.084	3	
57	280.0	N59 59.999 W137 07.080	3	
58	285.0	N60 00.001 W137 07.077	3	
59	290.0	N60 00.002 W137 07.073	3	
60	295.0	N60 00.003 W137 07.070	3	
61	300.0	N60 00.004 W137 07.065	3	
62	305.0	N60 00.006 W137 07.060	3	
63	310.0	N60 00.008 W137 07.058	3	
64	315.0	N60 00.010 W137 07.055	3	
65	320.0	N60 00.011 W137 07.051	3	
66	325.0	N60 00.013 W137 07.048	3	
67	330.0	N60 00.015 W137 07.045	3	
68	335.0	N60 00.017 W137 07.041	3	
69	340.0	N60 00.018 W137 07.035	3	
70	345.0	N60 00.020 W137 07.032	3	
71	350.0	N60 00.022 W137 07.027	3	
72	355.0	N60 00.024 W137 07.024	3	
73	360.0	N60 00.026 W137 07.020	3	
74	365.0	N60 00.028 W137 07.015	3	*
75	370.0	N60 00.029 W137 07.010	3	
76	375.0	N60 00.031 W137 07.007	3	
77	380.0	N60 00.033 W137 07.003	3	
78	385.0	N60 00.034 W137 06.999	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
79	390.0	N60 00.036 W137 06.994	3	
80	395.0	N60 00.037 W137 06.990	3	
81	400.0	N60 00.039 W137 06.986	3	
82	405.0	N60 00.041 W137 06.981	3	
83	410.0	N60 00.041 W137 06.977	3	
84	415.0	N60 00.043 W137 06.970	3	
85	420.0	N60 00.044 W137 06.967	3	
86	425.0	N60 00.045 W137 06.962	3	
87	430.0	N60 00.047 W137 06.956	3	
88	435.0	N60 00.048 W137 06.951	3	
89	440.0	N60 00.050 W137 06.946	3	
90	445.0	N60 00.052 W137 06.943	3	
91	450.0	N60 00.055 W137 06.938	3	
92	455.0	N60 00.057 W137 06.935	3	
93	460.0	N60 00.057 W137 06.934	3	
94	465.0	N60 00.059 W137 06.931	3	
95	470.0	N60 00.061 W137 06.927	3	
96	475.0	N60 00.062 W137 06.923	3	
97	480.0	N60 00.063 W137 06.918	3	
98	485.0	N60 00.065 W137 06.914	3	
99	490.0	N60 00.064 W137 06.909	3	*

Profile 2012_01

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N60 00.014 W137 07.056	3	*
2	5.0	N60 00.015 W137 07.050	3	
3	10.0	N60 00.016 W137 07.045	3	
4	15.0	N60 00.016 W137 07.041	3	
5	20.0	N60 00.018 W137 07.036	3	
6	25.0	N60 00.020 W137 07.032	3	
7	30.0	N60 00.021 W137 07.028	3	
8	35.0	N60 00.023 W137 07.024	3	
9	40.0	N60 00.025 W137 07.021	3	
10	45.0	N60 00.027 W137 07.016	3	
11	50.0	N60 00.029 W137 07.011	3	
12	55.0	N60 00.031 W137 07.007	3	
13	60.0	N60 00.032 W137 07.004	3	
14	65.0	N60 00.034 W137 06.999	3	
15	70.0	N60 00.035 W137 06.996	3	
16	75.0	N60 00.037 W137 06.991	3	
17	80.0	N60 00.039 W137 06.986	3	
18	85.0	N60 00.040 W137 06.981	3	
19	90.0	N60 00.041 W137 06.978	3	
20	95.0	N60 00.043 W137 06.973	3	
21	100.0	N60 00.045 W137 06.968	3	
22	105.0	N60 00.045 W137 06.966	3	
23	110.0	N60 00.048 W137 06.960	3	
24	115.0	N60 00.049 W137 06.955	3	
25	120.0	N60 00.051 W137 06.950	3	
26	125.0	N60 00.053 W137 06.948	3	
27	130.0	N60 00.055 W137 06.943	3	
28	135.0	N60 00.056 W137 06.940	3	
29	140.0	N60 00.058 W137 06.936	3	
30	145.0	N60 00.060 W137 06.932	3	
31	150.0	N60 00.061 W137 06.927	3	*
32	155.0	N60 00.064 W137 06.922	3	
33	160.0	N60 00.066 W137 06.920	3	
34	165.0	N60 00.067 W137 06.915	3	
35	170.0	N60 00.068 W137 06.911	3	
36	175.0	N60 00.069 W137 06.906	3	
37	180.0	N60 00.071 W137 06.901	3	
38	185.0	N60 00.073 W137 06.897	3	
39	190.0	N60 00.075 W137 06.893	3	
40	195.0	N60 00.076 W137 06.888	3	
41	200.0	N60 00.077 W137 06.886	3	
42	205.0	N60 00.078 W137 06.882	3	
43	210.0	N60 00.080 W137 06.878	3	
44	215.0	N60 00.081 W137 06.874	3	
45	220.0	N60 00.082 W137 06.871	3	
46	225.0	N60 00.085 W137 06.866	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
47	230.0	N60 00.086 W137 06.862	3	
48	235.0	N60 00.087 W137 06.858	3	
49	240.0	N60 00.090 W137 06.852	3	
50	245.0	N60 00.092 W137 06.846	3	
51	250.0	N60 00.094 W137 06.842	3	
52	255.0	N60 00.096 W137 06.838	3	
53	260.0	N60 00.097 W137 06.834	3	
54	265.0	N60 00.099 W137 06.831	3	
55	270.0	N60 00.101 W137 06.826	3	
56	275.0	N60 00.102 W137 06.824	3	
57	280.0	N60 00.104 W137 06.823	3	
58	285.0	N60 00.105 W137 06.819	3	
59	290.0	N60 00.106 W137 06.813	3	
60	295.0	N60 00.106 W137 06.810	3	
61	300.0	N60 00.109 W137 06.805	3	
62	305.0	N60 00.111 W137 06.806	3	
63	310.0	N60 00.111 W137 06.801	3	
64	315.0	N60 00.111 W137 06.796	3	*

Profile 2012_02

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N60 00.043 W137 07.254	3	*
2	5.0	N60 00.045 W137 07.248	3	
3	10.0	N60 00.046 W137 07.244	3	
4	15.0	N60 00.047 W137 07.241	3	
5	20.0	N60 00.049 W137 07.236	3	
6	25.0	N60 00.051 W137 07.233	3	
7	30.0	N60 00.054 W137 07.229	3	
8	35.0	N60 00.056 W137 07.226	3	
9	40.0	N60 00.057 W137 07.223	3	
10	45.0	N60 00.058 W137 07.221	3	
11	50.0	N60 00.060 W137 07.216	3	
12	55.0	N60 00.062 W137 07.210	3	
13	60.0	N60 00.065 W137 07.206	3	
14	65.0	N60 00.067 W137 07.202	3	
15	70.0	N60 00.069 W137 07.198	3	
16	75.0	N60 00.071 W137 07.194	3	
17	80.0	N60 00.072 W137 07.190	3	
18	85.0	N60 00.075 W137 07.187	3	
19	90.0	N60 00.077 W137 07.183	3	
20	95.0	N60 00.078 W137 07.181	3	
21	100.0	N60 00.079 W137 07.177	3	
22	105.0	N60 00.080 W137 07.172	3	
23	110.0	N60 00.082 W137 07.167	3	
24	115.0	N60 00.084 W137 07.164	3	
25	120.0	N60 00.086 W137 07.160	3	
26	125.0	N60 00.088 W137 07.158	3	
27	130.0	N60 00.090 W137 07.153	3	
28	135.0	N60 00.092 W137 07.148	3	
29	140.0	N60 00.093 W137 07.145	3	
30	145.0	N60 00.095 W137 07.140	3	
31	150.0	N60 00.097 W137 07.138	3	
32	155.0	N60 00.098 W137 07.134	3	
33	160.0	N60 00.100 W137 07.131	3	
34	165.0	N60 00.102 W137 07.127	3	
35	170.0	N60 00.104 W137 07.122	3	
36	175.0	N60 00.106 W137 07.118	3	
37	180.0	N60 00.108 W137 07.113	3	
38	185.0	N60 00.110 W137 07.110	3	
39	190.0	N60 00.112 W137 07.106	3	
40	195.0	N60 00.113 W137 07.103	3	
41	200.0	N60 00.115 W137 07.098	3	*
42	205.0	N60 00.118 W137 07.095	3	
43	210.0	N60 00.119 W137 07.093	3	
44	215.0	N60 00.121 W137 07.087	3	
45	220.0	N60 00.124 W137 07.083	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
46	225.0	N60 00.124 W137 07.078	3	
47	230.0	N60 00.126 W137 07.074	3	
48	235.0	N60 00.128 W137 07.071	3	
49	240.0	N60 00.130 W137 07.067	3	
50	245.0	N60 00.131 W137 07.064	3	
51	250.0	N60 00.134 W137 07.060	3	
52	255.0	N60 00.136 W137 07.056	3	
53	260.0	N60 00.138 W137 07.052	3	
54	265.0	N60 00.139 W137 07.049	3	
55	270.0	N60 00.141 W137 07.044	3	
56	275.0	N60 00.143 W137 07.040	3	
57	280.0	N60 00.145 W137 07.037	3	
58	285.0	N60 00.146 W137 07.032	3	
59	290.0	N60 00.149 W137 07.027	3	
60	295.0	N60 00.150 W137 07.024	3	
61	300.0	N60 00.152 W137 07.020	3	
62	305.0	N60 00.154 W137 07.017	3	
63	310.0	N60 00.154 W137 07.013	3	
64	315.0	N60 00.156 W137 07.009	3	
65	320.0	N60 00.159 W137 07.004	3	
66	325.0	N60 00.161 W137 07.001	3	
67	330.0	N60 00.163 W137 06.997	3	
68	335.0	N60 00.164 W137 06.993	3	
69	340.0	N60 00.166 W137 06.990	3	
70	345.0	N60 00.168 W137 06.983	3	
71	350.0	N60 00.170 W137 06.980	3	
72	355.0	N60 00.172 W137 06.975	3	
73	360.0	N60 00.173 W137 06.972	3	
74	365.0	N60 00.175 W137 06.969	3	
75	370.0	N60 00.177 W137 06.966	3	
76	375.0	N60 00.179 W137 06.961	3	
77	380.0	N60 00.180 W137 06.959	3	
78	385.0	N60 00.184 W137 06.953	3	
79	390.0	N60 00.186 W137 06.950	3	
80	395.0	N60 00.187 W137 06.948	3	
81	400.0	N60 00.188 W137 06.944	3	
82	405.0	N60 00.189 W137 06.939	3	
83	410.0	N60 00.192 W137 06.934	3	
84	415.0	N60 00.193 W137 06.930	3	
85	420.0	N60 00.194 W137 06.925	3	
86	425.0	N60 00.197 W137 06.921	3	
87	430.0	N60 00.198 W137 06.917	3	
88	435.0	N60 00.200 W137 06.916	3	
89	440.0	N60 00.201 W137 06.910	3	
90	445.0	N60 00.204 W137 06.907	3	
91	450.0	N60 00.205 W137 06.900	3	*

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Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N60 00.015 W137 08.070	3	*
2	5.0	N60 00.015 W137 08.066	3	
3	10.0	N60 00.015 W137 08.062	3	
4	15.0	N60 00.015 W137 08.058	3	
5	20.0	N60 00.016 W137 08.051	3	
6	25.0	N60 00.016 W137 08.046	3	
7	30.0	N60 00.017 W137 08.043	3	
8	35.0	N60 00.018 W137 08.038	3	
9	40.0	N60 00.018 W137 08.031	3	
10	45.0	N60 00.018 W137 08.026	3	
11	50.0	N60 00.019 W137 08.020	3	
12	55.0	N60 00.019 W137 08.016	3	
13	60.0	N60 00.020 W137 08.012	3	
14	65.0	N60 00.020 W137 08.008	3	
15	70.0	N60 00.021 W137 08.003	3	
16	75.0	N60 00.021 W137 07.997	3	
17	80.0	N60 00.021 W137 07.992	3	
18	85.0	N60 00.021 W137 07.986	3	
19	90.0	N60 00.021 W137 07.980	3	
20	95.0	N60 00.022 W137 07.973	3	
21	100.0	N60 00.023 W137 07.969	3	
22	105.0	N60 00.023 W137 07.962	3	
23	110.0	N60 00.023 W137 07.957	3	
24	115.0	N60 00.023 W137 07.951	3	
25	120.0	N60 00.024 W137 07.948	3	*
26	125.0	N60 00.024 W137 07.942	3	
27	130.0	N60 00.024 W137 07.937	3	
28	135.0	N60 00.024 W137 07.932	3	
29	140.0	N60 00.025 W137 07.927	3	
30	145.0	N60 00.025 W137 07.923	3	
31	150.0	N60 00.026 W137 07.917	3	
32	155.0	N60 00.025 W137 07.912	3	
33	160.0	N60 00.024 W137 07.907	3	
34	165.0	N60 00.025 W137 07.900	3	
35	170.0	N60 00.025 W137 07.896	3	
36	175.0	N60 00.025 W137 07.890	3	
37	180.0	N60 00.025 W137 07.884	3	
38	185.0	N60 00.025	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 07.880		
39	190.0	N60 00.025 W137 07.875	3	
40	195.0	N60 00.026 W137 07.870	3	
41	200.0	N60 00.027 W137 07.864	3	
42	205.0	N60 00.027 W137 07.859	3	
43	210.0	N60 00.027 W137 07.855	3	
44	215.0	N60 00.027 W137 07.848	3	
45	220.0	N60 00.028 W137 07.844	3	
46	225.0	N60 00.029 W137 07.841	3	
47	230.0	N60 00.029 W137 07.836	3	
48	235.0	N60 00.029 W137 07.833	3	
49	240.0	N60 00.028 W137 07.827	3	
50	245.0	N60 00.028 W137 07.820	3	*
51	250.0	N60 00.029 W137 07.813	3	
52	255.0	N60 00.030 W137 07.806	3	
53	260.0	N60 00.030 W137 07.801	3	
54	265.0	N60 00.030 W137 07.797	3	
55	270.0	N60 00.030 W137 07.791	3	
56	275.0	N60 00.031 W137 07.788	3	
57	280.0	N60 00.031 W137 07.783	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
58	285.0	N60 00.031 W137 07.777	3	
59	290.0	N60 00.032 W137 07.771	3	
60	295.0	N60 00.032 W137 07.765	3	
61	300.0	N60 00.032 W137 07.760	3	
62	305.0	N60 00.032 W137 07.754	3	
63	310.0	N60 00.032 W137 07.748	3	
64	315.0	N60 00.032 W137 07.742	3	
65	320.0	N60 00.034 W137 07.737	3	
66	325.0	N60 00.035 W137 07.732	3	
67	330.0	N60 00.035 W137 07.727	3	
68	335.0	N60 00.035 W137 07.723	3	
69	340.0	N60 00.035 W137 07.717	3	
70	345.0	N60 00.035 W137 07.714	3	
71	350.0	N60 00.036 W137 07.708	3	
72	355.0	N60 00.036 W137 07.702	3	
73	360.0	N60 00.037 W137 07.697	3	
74	365.0	N60 00.037 W137 07.692	3	
75	370.0	N60 00.037 W137 07.686	3	*
76	375.0	N60 00.037 W137 07.681	3	
77	380.0	N60 00.039	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 07.675		
78	385.0	N60 00.038 W137 07.668	3	
79	390.0	N60 00.038 W137 07.665	3	
80	395.0	N60 00.039 W137 07.658	3	
81	400.0	N60 00.040 W137 07.654	3	
82	405.0	N60 00.041 W137 07.648	3	
83	410.0	N60 00.041 W137 07.644	3	
84	415.0	N60 00.042 W137 07.638	3	
85	420.0	N60 00.042 W137 07.633	3	
86	425.0	N60 00.043 W137 07.629	3	
87	430.0	N60 00.044 W137 07.623	3	
88	435.0	N60 00.045 W137 07.618	3	
89	440.0	N60 00.046 W137 07.612	3	
90	445.0	N60 00.046 W137 07.608	3	
91	450.0	N60 00.047 W137 07.602	3	
92	455.0	N60 00.048 W137 07.596	3	
93	460.0	N60 00.049 W137 07.592	3	
94	465.0	N60 00.049 W137 07.586	3	
95	470.0	N60 00.049 W137 07.581	3	
96	475.0	N60 00.050 W137 07.576	3	
97	480.0	N60 00.051 W137 07.572	3	
98	485.0	N60 00.052 W137 07.567	3	
99	490.0	N60 00.053 W137 07.562	3	
100	495.0	N60 00.053 W137 07.556	3	*
101	500.0	N60 00.054 W137 07.552	3	
102	505.0	N60 00.054 W137 07.552	3	
103	510.0	N60 00.054 W137 07.549	3	
104	515.0	N60 00.055 W137 07.543	3	
105	520.0	N60 00.055 W137 07.534	3	
106	525.0	N60 00.056 W137 07.527	3	
107	530.0	N60 00.057 W137 07.522	3	
108	535.0	N60 00.058 W137 07.520	3	
109	540.0	N60 00.059 W137 07.515	3	
110	545.0	N60 00.060 W137 07.508	3	
111	550.0	N60 00.061 W137 07.501	3	
112	555.0	N60 00.061 W137 07.496	3	
113	560.0	N60 00.062 W137 07.492	3	
114	565.0	N60 00.063 W137 07.487	3	
115	570.0	N60 00.064 W137 07.484	3	
116	575.0	N60 00.065	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 07.479		
117	580.0	N60 00.065 W137 07.473	3	
118	585.0	N60 00.066 W137 07.470	3	
119	590.0	N60 00.067 W137 07.465	3	
120	595.0	N60 00.068 W137 07.460	3	
121	600.0	N60 00.068	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 07.456		
122	605.0	N60 00.070 W137 07.451	3	
123	610.0	N60 00.072 W137 07.445	3	
124	615.0	N60 00.072 W137 07.440	3	*

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m	Depth to bedrock	Lat. Long.
0	-	N60 00 02.7 W137 07 34.5
3	-	N60 00 02.8 W137 07 34.3
6	-	N60 00 02.8 W137 07 34.1
9	-	N60 00 02.9 W137 07 33.9
12	-	N60 00 03.0 W137 07 33.8
15	-	N60 00 03.1 W137 07 33.6
18	-	N60 00 03.2 W137 07 33.6
21	-	N60 00 03.2 W137 07 33.5
24	-	N60 00 03.3 W137 07 33.4
27	-	N60 00 03.4 W137 07 33.3
30	-	N60 00 03.4 W137 07 33.1
33	-	N60 00 03.5 W137 07 33.0
36	-	N60 00 03.5 W137 07 32.8
39	-	N60 00 03.6 W137 07 32.7
42	-	N60 00 03.6 W137 07 32.6
45	-	N60 00 03.7 W137 07 32.5
48	-	N60 00 03.8 W137 07 32.4
51	-	N60 00 03.8 W137 07 32.2
54	-	N60 00 03.9 W137 07 32.1
57	-	N60 00 04.0 W137 07 31.9
60	-	N60 00 04.1 W137 07 31.8
63	-	N60 00 04.2 W137 07 31.6
66	-	N60 00 04.3 W137 07 31.4
69	-	N60 00 04.3 W137 07 31.3
72	-	N60 00 04.4 W137 07 31.1
75	-	N60 00 04.4 W137 07 31.0
78	-	N60 00 04.5 W137 07 30.8
81	-	N60 00 04.6 W137 07 30.7
84	-	N60 00 04.6 W137 07 30.6
87	-	
90	-	N60 00 04.8 W137 07 30.3
93	-	N60 00 04.9 W137 07 30.2
96	-	N60 00 04.9 W137 07 30.1
99	-	N60 00 05.0 W137 07 29.9
102	-	N60 00 05.1 W137 07 29.8
105	-	N60 00 05.2 W137 07 29.7
108	-	N60 00 05.2 W137 07 29.6
111	-	N60 00 05.3 W137 07 29.5
114	-	N60 00 05.4 W137 07 29.4
117	-	N60 00 05.5 W137 07 29.3
120	-	N60 00 05.5 W137 07 29.2
123	-	N60 00 05.6 W137 07 29.1
126	-	N60 00 05.7 W137 07 28.9
129	-	N60 00 05.7 W137 07 28.8
132	-	N60 00 05.8 W137 07 28.7
135	-	N60 00 05.8 W137 07 28.5
138	-	N60 00 05.9 W137 07 28.4
141	-	N60 00 05.9 W137 07 28.2
144	-	N60 00 06.0 W137 07 28.0
147	-	N60 00 06.0 W137 07 27.8
150	-	N60 00 06.1 W137 07 27.6
153	-	N60 00 06.2 W137 07 27.5
156	-	N60 00 06.3 W137 07 27.3
159	-	N60 00 06.3 W137 07 27.2
162	-	N60 00 06.4 W137 07 27.0
165	-	N60 00 06.5 W137 07 26.9
168	-	N60 00 06.5 W137 07 26.7
171	-	N60 00 06.6 W137 07 26.6
174	-	N60 00 06.7 W137 07 26.5
177	-	N60 00 06.7 W137 07 26.3
180	-	N60 00 06.8 W137 07 26.1
183	-	N60 00 06.8 W137 07 26.0
186	-	N60 00 06.9

m	Depth to bedrock	Lat. Long.
		W137 07 25.9
189	-	N60 00 06.9 W137 07 25.7
192	-	N60 00 07.0 W137 07 25.6
195	-	N60 00 07.1 W137 07 25.4
198	-	N60 00 07.1 W137 07 25.3
201	-	N60 00 07.2 W137 07 25.2
204	-	N60 00 07.3 W137 07 25.0
207	-	N60 00 07.3 W137 07 24.9
210	-	N60 00 07.4 W137 07 24.7
213	-	N60 00 07.5 W137 07 24.6
216	-	N60 00 07.5 W137 07 24.5
219	-	N60 00 07.5 W137 07 24.4
222	-	N60 00 07.6 W137 07 24.3

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m	Depth [m]	Lat Long (hddd° mm' ss.s'')	Lat Long (hddd° mm.mmm')
0	-	N60 00 01.6 W137 07 47.3	N60 00.026 W137 07.789
5	-	N60 00 01.7 W137 07 47.0	N60 00.028 W137 07.783
10	-	N60 00 01.8 W137 07 46.7	N60 00.029 W137 07.778
15	-	N60 00 01.8 W137 07 46.4	N60 00.030 W137 07.773
20	-	N60 00 01.9 W137 07 46.1	N60 00.032 W137 07.769
25	-	N60 00 02.0 W137 07 45.8	N60 00.034 W137 07.763
30	-	N60 00 02.1 W137 07 45.5	N60 00.035 W137 07.759
35	-	N60 00 02.1 W137 07 45.2	N60 00.036 W137 07.753
40	-	N60 00 02.2 W137 07 44.9	N60 00.037 W137 07.748
45	-	N60 00 02.3 W137 07 44.5	N60 00.038 W137 07.742
50	-	N60 00 02.3 W137 07 44.2	N60 00.039 W137 07.737
55	-	N60 00 02.4 W137 07 43.9	N60 00.041 W137 07.732
60	-	N60 00 02.5 W137 07 43.7	N60 00.042 W137 07.728
65	-	N60 00 02.6 W137 07 43.5	N60 00.043 W137 07.724
70	-	N60 00 02.7 W137 07 43.2	N60 00.045 W137 07.720
75	-	N60 00 02.8 W137 07 42.9	N60 00.046 W137 07.715
80	30	N60 00 02.9 W137 07 42.6	N60 00.048 W137 07.710
85	30	N60 00 02.9 W137 07 42.3	N60 00.049 W137 07.705
90	30	N60 00 03.0 W137 07 42.1	N60 00.050 W137 07.701
95	30	N60 00 03.0 W137 07 41.8	N60 00.051 W137 07.696
100	30	N60 00 03.1 W137 07 41.5	N60 00.052 W137 07.691
105	30.5	N60 00 03.2 W137 07 41.3	N60 00.053 W137 07.688
110	31	N60 00 03.2 W137 07 41.1	N60 00.054 W137 07.685
115	31	N60 00 03.3 W137 07 40.8	N60 00.055 W137 07.681
120	31	N60 00 03.4 W137 07 40.6	N60 00.056 W137 07.677
125	31	N60 00 03.4 W137 07 40.2	N60 00.057 W137 07.670
130	31	N60 00 03.5 W137 07 39.9	N60 00.058 W137 07.665
135	31	N60 00 03.5 W137 07 39.6	N60 00.059 W137 07.661
140	31	N60 00 03.6 W137 07 39.4	N60 00.060 W137 07.656
145	31	N60 00 03.7 W137 07 39.1	N60 00.061 W137 07.651
150	32	N60 00 03.8 W137 07 38.8	N60 00.063 W137 07.646
155	32	N60 00 03.8 W137 07 38.4	N60 00.064 W137 07.641
160	32	N60 00 03.9 W137 07 38.2	N60 00.065 W137 07.637
165	32	N60 00 04.0 W137 07 38.0	N60 00.066 W137 07.633
170	32	N60 00 03.9 W137 07 37.8	N60 00.066 W137 07.629
175	32	N60 00 04.0 W137 07 37.4	N60 00.067 W137 07.624
180	33	N60 00 04.1 W137 07 37.2	N60 00.068 W137 07.619
185	33	N60 00 04.2 W137 07 36.8	N60 00.070 W137 07.613
190	33	N60 00 04.3 W137 07 36.5	N60 00.071 W137 07.608
195	34	N60 00 04.3 W137 07 36.3	N60 00.072 W137 07.604
200	34	N60 00 04.4 W137 07 36.0	N60 00.073 W137 07.600
205	35	N60 00 04.4 W137 07 35.7	N60 00.074 W137 07.596
210	34.5	N60 00 04.5 W137 07 35.5	N60 00.076 W137 07.592
215	33.5	N60 00 04.6 W137 07 35.2	N60 00.076 W137 07.587
220	31	N60 00 04.7 W137 07 35.0	N60 00.078 W137 07.584
225	28	N60 00 04.7 W137 07 34.8	N60 00.079 W137 07.580
230	27	N60 00 04.9 W137 07 34.6	N60 00.081 W137 07.576
235	27	N60 00 04.9 W137 07 34.4	N60 00.082 W137 07.573
240	26	N60 00 05.0 W137 07 34.1	N60 00.083 W137 07.569
245	26	N60 00 05.1 W137 07 33.9	N60 00.084 W137 07.565
250	26	N60 00 05.2 W137 07 33.4	N60 00.087 W137 07.557
255	27	N60 00 05.3 W137 07 33.1	N60 00.088 W137 07.552
260	28	N60 00 05.4 W137 07 32.9	N60 00.089 W137 07.549
265	28	N60 00 05.4 W137 07 32.6	N60 00.090 W137 07.543
270	29	N60 00 05.5 W137 07 32.3	N60 00.091 W137 07.539
275	29	N60 00 05.6 W137 07 32.0	N60 00.093 W137 07.534
280	30	N60 00 05.6 W137 07 31.7	N60 00.093 W137 07.528
285	-	N60 00 05.7 W137 07 31.4	N60 00.095 W137 07.523
290	-	N60 00 05.7 W137 07 31.1	N60 00.095 W137 07.518
295	-	N60 00 05.8 W137 07 30.8	N60 00.097 W137 07.513
300	-	N60 00 05.9 W137 07 30.5	N60 00.098 W137 07.509
305	-	N60 00 05.9 W137 07 30.3	N60 00.099 W137 07.505
310	-	N60 00 06.0 W137 07 30.0	N60 00.100 W137 07.500
315	-	N60 00 06.1 W137 07 29.7	N60 00.101 W137 07.495
320	-	N60 00 06.1 W137 07 29.3	N60 00.102 W137 07.489
325	-	N60 00 06.2 W137 07 29.1	N60 00.103 W137 07.484
330	-	N60 00 06.2 W137 07 28.8	N60 00.104 W137 07.480
335	-	N60 00 06.3 W137 07 28.5	N60 00.105 W137 07.474
340	-	N60 00 06.3 W137 07 28.2	N60 00.106 W137 07.470
345	-	N60 00 06.4 W137 07 28.0	N60 00.107 W137 07.466
350	-	N60 00 06.5 W137 07 27.7	N60 00.108 W137 07.462
355	-	N60 00 06.5 W137 07 27.4	N60 00.109 W137 07.457
360	-	N60 00 06.6 W137 07 27.1	N60 00.111 W137 07.452
365	-	N60 00 06.7 W137 07 26.8	N60 00.111 W137 07.447
370	-	N60 00 06.7 W137 07 26.6	N60 00.112 W137 07.443

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m	Depth to bedrock	Lat. Long.
0	-	N60 00 10.0 W137 07 47.9
3	-	N60 00 10.0 W137 07 47.7
6	-	N60 00 10.0 W137 07 47.5
9	-	N60 00 10.0 W137 07 47.3
12	-	N60 00 10.1 W137 07 47.1
15	-	N60 00 10.1 W137 07 46.9
18	-	N60 00 10.1 W137 07 46.7
21	-	N60 00 10.2 W137 07 46.5
24	-	N60 00 10.2 W137 07 46.3
27	-	N60 00 10.2 W137 07 46.0
30	-	N60 00 10.2 W137 07 45.8
33	-	N60 00 10.2 W137 07 45.6
36	-	N60 00 10.3 W137 07 45.4
39	-	N60 00 10.3 W137 07 45.3
42	-	N60 00 10.3 W137 07 45.1
45	-	N60 00 10.4 W137 07 44.9
48	-	N60 00 10.4 W137 07 44.8
51	-	N60 00 10.4 W137 07 44.6
54	-	N60 00 10.5 W137 07 44.4
57	-	N60 00 10.5 W137 07 44.2
60	-	N60 00 10.6 W137 07 44.1
63	-	N60 00 10.6 W137 07 43.9
66	-	N60 00 10.6 W137 07 43.7
69	-	N60 00 10.6 W137 07 43.5
72	-	N60 00 10.6 W137 07 43.4
75	-	N60 00 10.6 W137 07 43.2
78	-	N60 00 10.7 W137 07 43.0
81	-	N60 00 10.7 W137 07 42.8
84	-	N60 00 10.7 W137 07 42.6
87	-	N60 00 10.7 W137 07 42.4
90	-	N60 00 10.7 W137 07 42.2
93	-	N60 00 10.8 W137 07 42.1
96	-	N60 00 10.7 W137 07 41.9
99	-	N60 00 10.7 W137 07 41.7
102	-	N60 00 10.7 W137 07 41.5
105	-	N60 00 10.8 W137 07 41.3
108	-	N60 00 10.8 W137 07 41.1
111	-	N60 00 10.9 W137 07 40.9
114	-	N60 00 10.9 W137 07 40.8
117	-	N60 00 10.9 W137 07 40.6
120	-	N60 00 10.9 W137 07 40.4
123	-	N60 00 11.0 W137 07 40.2
126	-	N60 00 11.0 W137 07 39.9
129	-	N60 00 10.9 W137 07 39.7
132	-	N60 00 10.9 W137 07 39.6
135	-	N60 00 10.9 W137 07 39.5
138	-	N60 00 11.1 W137 07 39.4
141	-	N60 00 11.2 W137 07 39.1
144	-	N60 00 11.2 W137 07 39.0
147	-	N60 00 11.1 W137 07 38.8
150	-	N60 00 11.2 W137 07 38.6
153	-	N60 00 11.1 W137 07 38.3
156	-	N60 00 11.1 W137 07 38.2
159	-	N60 00 11.1 W137 07 38.1
162	-	N60 00 11.1 W137 07 37.9
165	-	N60 00 11.1 W137 07 37.8
168	-	N60 00 11.2 W137 07 37.6
171	-	N60 00 11.2 W137 07 37.4
174	-	N60 00 11.3 W137 07 37.2
177	-	N60 00 11.3 W137 07 37.0
180	-	N60 00 11.3 W137 07 36.8
183	-	N60 00 11.3 W137 07 36.7

m	Depth to bedrock	Lat. Long.
186	-	N60 00 11.4 W137 07 36.5
189	-	N60 00 11.4 W137 07 36.3
192	10m	N60 00 11.4 W137 07 36.2
195	7.5m	N60 00 11.5 W137 07 36.0
198	5m	N60 00 11.5 W137 07 35.8
201	4m	N60 00 11.5 W137 07 35.6
204	0.5m	N60 00 11.6 W137 07 35.5
207	0.5m	N60 00 11.6 W137 07 35.3
210	0.5m	N60 00 11.6 W137 07 35.1
213	0.5m	N60 00 11.6 W137 07 34.9
216	0.5m	N60 00 11.7 W137 07 34.7
219	-	N60 00 11.7 W137 07 34.5
222	-	N60 00 11.7 W137 07 34.3

Profile 2010_02

m	Depth [m]	Lat Long (hddd° mm' ss.s")	Lat Long (hddd° mm.mmm')
0	-	N60 00 14.8 W137 08 07.6	N60 00.247 W137 08.126
5	-	N60 00 14.8 W137 08 07.2	N60 00.247 W137 08.121
10	3	N60 00 14.8 W137 08 06.9	N60 00.247 W137 08.115
15	4	N60 00 14.8 W137 08 06.6	N60 00.246 W137 08.110
20	6	N60 00 14.8 W137 08 06.3	N60 00.246 W137 08.105
25	6	N60 00 14.8 W137 08 06.0	N60 00.246 W137 08.100
30	6	N60 00 14.8 W137 08 05.7	N60 00.246 W137 08.094
35	6	N60 00 14.8 W137 08 05.4	N60 00.246 W137 08.090
40	6	N60 00 14.8 W137 08 05.1	N60 00.246 W137 08.085
45	6	N60 00 14.8 W137 08 04.7	N60 00.246 W137 08.079
50	6	N60 00 14.8 W137 08 04.4	N60 00.247 W137 08.073
55	5	N60 00 14.8 W137 08 04.1	N60 00.246 W137 08.068
60	4	N60 00 14.8 W137 08 03.8	N60 00.246 W137 08.063
65	4	N60 00 14.8 W137 08 03.5	N60 00.246 W137 08.058
70	5	N60 00 14.8 W137 08 03.2	N60 00.246 W137 08.053
75	5	N60 00 14.7 W137 08 02.9	N60 00.246 W137 08.048
80	5	N60 00 14.7 W137 08 02.6	N60 00.245 W137 08.043
85	5	N60 00 14.7 W137 08 02.3	N60 00.245 W137 08.038
90	5	N60 00 14.7 W137 08 02.0	N60 00.245 W137 08.033
95	5	N60 00 14.7 W137 08 01.6	N60 00.245 W137 08.027
100	5	N60 00 14.7 W137 08 01.3	N60 00.244 W137 08.022
105	5	N60 00 14.7 W137 08 01.0	N60 00.244 W137 08.017
110	5	N60 00 14.6 W137 08 00.7	N60 00.244 W137 08.011
115	5	N60 00 14.6 W137 08 00.3	N60 00.244 W137 08.005
120	5	N60 00 14.6 W137 08 00.0	N60 00.244 W137 08.001
125	5	N60 00 14.6 W137 07 59.7	N60 00.244 W137 07.995
130	5	N60 00 14.6 W137 07 59.4	N60 00.243 W137 07.989
135	5	N60 00 14.6 W137 07 59.0	N60 00.243 W137 07.984
140	4	N60 00 14.6 W137 07 58.7	N60 00.243 W137 07.978
145	4	N60 00 14.5 W137 07 58.4	N60 00.242 W137 07.973
150	4	N60 00 14.5 W137 07 58.1	N60 00.242 W137 07.968
155	7	N60 00 14.5 W137 07 57.7	N60 00.241 W137 07.962
160	7	N60 00 14.5 W137 07 57.4	N60 00.241 W137 07.956
165	6	N60 00 14.5 W137 07 57.1	N60 00.241 W137 07.952
170	7	N60 00 14.4 W137 07 56.8	N60 00.241 W137 07.947
175	10	N60 00 14.4 W137 07 56.6	N60 00.240 W137 07.943
180	10.5	N60 00 14.4 W137 07 56.3	N60 00.240 W137 07.938
185	12	N60 00 14.4 W137 07 56.0	N60 00.240 W137 07.933
190	13	N60 00 14.4 W137 07 55.6	N60 00.240 W137 07.927
195	13.5	N60 00 14.4 W137 07 55.4	N60 00.240 W137 07.923
200	14	N60 00 14.3 W137 07 55.0	N60 00.239 W137 07.917
205	16	N60 00 14.3 W137 07 54.7	N60 00.239 W137 07.912
210	17.5	N60 00 14.3 W137 07 54.4	N60 00.239 W137 07.907
215	18	N60 00 14.3 W137 07 54.1	N60 00.238 W137 07.901
220	19	N60 00 14.3 W137 07 53.7	N60 00.238 W137 07.896
225	19	N60 00 14.3 W137 07 53.4	N60 00.238 W137 07.890
230	19	N60 00 14.3 W137 07 53.1	N60 00.238 W137 07.885
235	19	N60 00 14.2 W137 07 52.8	N60 00.237 W137 07.879
240	20	N60 00 14.2 W137 07 52.4	N60 00.237 W137 07.874
245	20	N60 00 14.2 W137 07 52.1	N60 00.237 W137 07.868
250	20	N60 00 14.2 W137 07 51.8	N60 00.237 W137 07.863
255	20	N60 00 14.2 W137 07 51.5	N60 00.236 W137 07.858
260	20.5	N60 00 14.2 W137 07 51.2	N60 00.236 W137 07.853
265	20.5	N60 00 14.2 W137 07 50.8	N60 00.236 W137 07.847
270	20.5	N60 00 14.2 W137 07 50.4	N60 00.236 W137 07.841
275	20	N60 00 14.1 W137 07 50.1	N60 00.236 W137 07.836
280	20	N60 00 14.1 W137 07 49.9	N60 00.235 W137 07.831
285	20	N60 00 14.1 W137 07 49.6	N60 00.234 W137 07.826
290	20	N60 00 14.0 W137 07 49.2	N60 00.234 W137 07.821
295	21	N60 00 14.0 W137 07 48.9	N60 00.234 W137 07.815
300	21	N60 00 14.0 W137 07 48.6	N60 00.234 W137 07.810
305	21	N60 00 14.0 W137 07 48.3	N60 00.233 W137 07.805
310	22	N60 00 14.0 W137 07 48.0	N60 00.233 W137 07.800
315	22	N60 00 14.0 W137 07 47.6	N60 00.233 W137 07.794
320	-	N60 00 13.9 W137 07 47.4	N60 00.232 W137 07.790
325	-	N60 00 13.9 W137 07 47.1	N60 00.232 W137 07.785
330	-	N60 00 13.9 W137 07 46.7	N60 00.232 W137 07.779
335	-	N60 00 13.9 W137 07 46.4	N60 00.232 W137 07.774
340	-	N60 00 13.9 W137 07 46.1	N60 00.232 W137 07.769
345	-	N60 00 13.9 W137 07 45.8	N60 00.231 W137 07.763
350	-	N60 00 13.9 W137 07 45.4	N60 00.231 W137 07.757
355	-	N60 00 13.9 W137 07 45.1	N60 00.231 W137 07.751
360	-	N60 00 13.9 W137 07 44.7	N60 00.231 W137 07.746
365	-	N60 00 13.9 W137 07 44.5	N60 00.231 W137 07.741
370	-	N60 00 13.8 W137 07 44.2	N60 00.231 W137 07.736

Profile 2010_03

m	Depth [m]	Lat Long (hddd° mm' ss.s'')	Lat Long (hddd° mm.mmm')
0	-	N60 00 14.5 W137 07 57.0	N60 00.241 W137 07.951
5	-	N60 00 14.4 W137 07 56.7	N60 00.241 W137 07.945
10	-	N60 00 14.4 W137 07 56.4	N60 00.241 W137 07.940
15	-	N60 00 14.4 W137 07 56.1	N60 00.241 W137 07.935
20	-	N60 00 14.4 W137 07 55.8	N60 00.240 W137 07.930
25	-	N60 00 14.4 W137 07 55.5	N60 00.240 W137 07.924
30	-	N60 00 14.4 W137 07 55.1	N60 00.240 W137 07.919
35	-	N60 00 14.4 W137 07 54.8	N60 00.240 W137 07.913
40	-	N60 00 14.4 W137 07 54.5	N60 00.239 W137 07.908
45	-	N60 00 14.3 W137 07 54.2	N60 00.239 W137 07.903
50	-	N60 00 14.3 W137 07 53.8	N60 00.239 W137 07.897
55	20	N60 00 14.3 W137 07 53.5	N60 00.238 W137 07.892
60	20	N60 00 14.3 W137 07 53.2	N60 00.238 W137 07.887
65	21	N60 00 14.3 W137 07 52.9	N60 00.238 W137 07.882
70	21	N60 00 14.2 W137 07 52.6	N60 00.237 W137 07.877
75	21	N60 00 14.2 W137 07 52.2	N60 00.237 W137 07.871
80	20	N60 00 14.2 W137 07 51.9	N60 00.237 W137 07.866
85	20	N60 00 14.2 W137 07 51.6	N60 00.237 W137 07.861
90	19.5	N60 00 14.2 W137 07 51.3	N60 00.236 W137 07.855
95	20.5	N60 00 14.2 W137 07 51.0	N60 00.236 W137 07.850
100	20.5	N60 00 14.2 W137 07 50.6	N60 00.236 W137 07.844
105	21	N60 00 14.1 W137 07 50.3	N60 00.236 W137 07.839
110	20.5	N60 00 14.1 W137 07 50.0	N60 00.235 W137 07.833
115	21	N60 00 14.1 W137 07 49.8	N60 00.235 W137 07.829
120	21	N60 00 14.1 W137 07 49.4	N60 00.235 W137 07.823
125	22	N60 00 14.1 W137 07 49.1	N60 00.234 W137 07.818
130	22	N60 00 14.1 W137 07 48.8	N60 00.234 W137 07.813
135	23	N60 00 14.1 W137 07 48.4	N60 00.234 W137 07.807
140	24	N60 00 14.0 W137 07 48.2	N60 00.234 W137 07.803
145	25	N60 00 14.0 W137 07 47.8	N60 00.234 W137 07.797
150	26	N60 00 14.0 W137 07 47.5	N60 00.234 W137 07.792
155	26.5	N60 00 14.0 W137 07 47.2	N60 00.233 W137 07.787
160	27	N60 00 14.0 W137 07 46.9	N60 00.233 W137 07.781
165	27	N60 00 14.0 W137 07 46.6	N60 00.233 W137 07.776
170	26	N60 00 14.0 W137 07 46.3	N60 00.233 W137 07.771
175	25	N60 00 14.0 W137 07 46.0	N60 00.233 W137 07.766
180	22	N60 00 13.9 W137 07 45.6	N60 00.232 W137 07.761
185	21	N60 00 13.9 W137 07 45.3	N60 00.232 W137 07.755
190	20	N60 00 13.9 W137 07 45.0	N60 00.232 W137 07.750
195	20.5	N60 00 13.9 W137 07 44.7	N60 00.232 W137 07.746

m	Depth [m]	Lat Long (hddd° mm' ss.s'')	Lat Long (hddd° mm.mmm')
200	20.5	N60 00 13.9 W137 07 44.4	N60 00.232 W137 07.741
205	21.5	N60 00 13.9 W137 07 44.1	N60 00.231 W137 07.735
210	20	N60 00 13.9 W137 07 43.8	N60 00.231 W137 07.730
215	19	N60 00 13.9 W137 07 43.5	N60 00.231 W137 07.724
220	16	N60 00 13.8 W137 07 43.2	N60 00.231 W137 07.719
225	14	N60 00 13.8 W137 07 42.8	N60 00.230 W137 07.714
230	10	N60 00 13.8 W137 07 42.5	N60 00.230 W137 07.709
235	10	N60 00 13.8 W137 07 42.2	N60 00.230 W137 07.703
240	9	N60 00 13.8 W137 07 41.9	N60 00.230 W137 07.698
245	8	N60 00 13.8 W137 07 41.5	N60 00.230 W137 07.692
250	8	N60 00 13.8 W137 07 41.2	N60 00.229 W137 07.687
255	7	N60 00 13.8 W137 07 40.8	N60 00.230 W137 07.681
260	7.5	N60 00 13.7 W137 07 40.6	N60 00.229 W137 07.676
265	7	N60 00 13.7 W137 07 40.3	N60 00.229 W137 07.671
270	6	N60 00 13.7 W137 07 39.9	N60 00.229 W137 07.665
275	5	N60 00 13.7 W137 07 39.6	N60 00.228 W137 07.660
280	5	N60 00 13.7 W137 07 39.3	N60 00.228 W137 07.655
285	4.5	N60 00 13.6 W137 07 39.0	N60 00.227 W137 07.650
290	4	N60 00 13.6 W137 07 38.7	N60 00.227 W137 07.645
295	3	N60 00 13.6 W137 07 38.4	N60 00.227 W137 07.640
300	4	N60 00 13.6 W137 07 38.1	N60 00.227 W137 07.635
305	4	N60 00 13.6 W137 07 37.8	N60 00.226 W137 07.629
310	4	N60 00 13.6 W137 07 37.5	N60 00.226 W137 07.624
315	3	N60 00 13.5 W137 07 37.2	N60 00.226 W137 07.620
320	3	N60 00 13.6 W137 07 36.9	N60 00.226 W137 07.615
325	2	N60 00 13.6 W137 07 36.5	N60 00.226 W137 07.609
330	0.5	N60 00 13.6 W137 07 36.2	N60 00.226 W137 07.604
335	0.5	N60 00 13.6 W137 07 35.9	N60 00.226 W137 07.599
340	0.5	N60 00 13.6 W137 07 35.6	N60 00.226 W137 07.593
345	0.5	N60 00 13.6 W137 07 35.2	N60 00.227 W137 07.587
350	-	N60 00 13.6 W137 07 35.0	N60 00.226 W137 07.583
355	-	N60 00 13.5 W137 07 34.8	N60 00.226 W137 07.580
360	-	N60 00 13.5 W137 07 34.6	N60 00.225 W137 07.576
365	-	N60 00 13.6 W137 07 34.3	N60 00.226 W137 07.571
370	-	N60 00 13.5 W137 07 34.0	N60 00.225 W137 07.567

Profile 2011_02

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N60 00.408 W137 08.119	3	*
2	3.0	N60 00.407 W137 08.118	3	
3	6.0	N60 00.407 W137 08.114	3	
4	9.0	N60 00.406 W137 08.110	3	
5	12.0	N60 00.405 W137 08.109	3	
6	15.0	N60 00.404 W137 08.106	3	
7	18.0	N60 00.403 W137 08.102	3	
8	21.0	N60 00.403 W137 08.100	3	
9	24.0	N60 00.402 W137 08.096	3	
10	27.0	N60 00.401 W137 08.093	3	
11	30.0	N60 00.401 W137 08.091	3	
12	33.0	N60 00.401 W137 08.088	3	
13	36.0	N60 00.401 W137 08.085	3	
14	39.0	N60 00.400 W137 08.084	3	
15	42.0	N60 00.400 W137 08.080	3	
16	45.0	N60 00.399 W137 08.077	3	
17	48.0	N60 00.398 W137 08.072	3	
18	51.0	N60 00.398 W137 08.068	3	
19	54.0	N60 00.397 W137 08.067	3	
20	57.0	N60 00.396 W137 08.065	3	
21	60.0	N60 00.396 W137 08.060	3	
22	63.0	N60 00.395 W137 08.059	3	
23	66.0	N60 00.394 W137 08.054	3	
24	69.0	N60 00.394 W137 08.053	3	
25	72.0	N60 00.394 W137 08.050	3	*
26	75.0	N60 00.393 W137 08.047	3	
27	78.0	N60 00.392 W137 08.044	3	
28	81.0	N60 00.392 W137 08.041	3	
29	84.0	N60 00.391 W137 08.038	3	
30	87.0	N60 00.391 W137 08.035	3	
31	90.0	N60 00.390 W137 08.031	3	
32	93.0	N60 00.390 W137 08.028	3	
33	96.0	N60 00.389 W137 08.026	3	
34	99.0	N60 00.388 W137 08.023	3	
35	102.0	N60 00.388 W137 08.019	3	
36	105.0	N60 00.388 W137 08.016	3	
37	108.0	N60 00.388 W137 08.014	3	
38	111.0	N60 00.388	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 08.012		
39	114.0	N60 00.387 W137 08.006	3	
40	117.0	N60 00.386 W137 08.004	3	
41	120.0	N60 00.385 W137 08.001	3	
42	123.0	N60 00.384 W137 07.998	3	
43	126.0	N60 00.384 W137 07.995	3	
44	129.0	N60 00.384 W137 07.992	3	
45	132.0	N60 00.383 W137 07.989	3	
46	135.0	N60 00.383 W137 07.987	3	
47	138.0	N60 00.383 W137 07.983	3	
48	141.0	N60 00.381 W137 07.980	3	
49	144.0	N60 00.381 W137 07.977	3	
50	147.0	N60 00.380 W137 07.973	3	*
51	150.0	N60 00.381 W137 07.970	3	
52	153.0	N60 00.380 W137 07.969	3	
53	156.0	N60 00.378 W137 07.963	3	
54	159.0	N60 00.378 W137 07.961	3	
55	162.0	N60 00.378 W137 07.959	3	
56	165.0	N60 00.377 W137 07.957	3	
57	168.0	N60 00.376 W137 07.953	3	
58	171.0	N60 00.376 W137 07.950	3	
59	174.0	N60 00.375 W137 07.946	3	
60	177.0	N60 00.374 W137 07.944	3	
61	180.0	N60 00.374 W137 07.941	3	
62	183.0	N60 00.374 W137 07.939	3	
63	186.0	N60 00.372 W137 07.936	3	
64	189.0	N60 00.371 W137 07.935	3	
65	192.0	N60 00.370 W137 07.931	3	
66	195.0	N60 00.370 W137 07.929	3	
67	198.0	N60 00.369 W137 07.925	3	
68	201.0	N60 00.369 W137 07.924	3	
69	204.0	N60 00.368 W137 07.919	3	
70	207.0	N60 00.367 W137 07.918	3	
71	210.0	N60 00.367 W137 07.913	3	
72	213.0	N60 00.366 W137 07.910	3	
73	216.0	N60 00.365 W137 07.906	3	
74	219.0	N60 00.365 W137 07.903	3	
75	222.0	N60 00.364 W137 07.900	3	*
76	225.0	N60 00.364 W137 07.897	3	
77	228.0	N60 00.363	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
		W137 07.894		
78	231.0	N60 00.362 W137 07.893	3	
79	234.0	N60 00.362 W137 07.889	3	
80	237.0	N60 00.361 W137 07.885	3	
81	240.0	N60 00.360 W137 07.884	3	
82	243.0	N60 00.360 W137 07.881	3	
83	246.0	N60 00.359 W137 07.878	3	
84	249.0	N60 00.358 W137 07.876	3	
85	252.0	N60 00.357 W137 07.873	3	
86	255.0	N60 00.356 W137 07.871	3	
87	258.0	N60 00.355 W137 07.868	3	
88	261.0	N60 00.354 W137 07.864	3	
89	264.0	N60 00.353 W137 07.863	3	
90	267.0	N60 00.353 W137 07.863	3	
91	270.0	N60 00.352 W137 07.859	3	
92	273.0	N60 00.350 W137 07.857	3	
93	276.0	N60 00.350 W137 07.853	3	
94	279.0	N60 00.349 W137 07.849	3	
95	282.0	N60 00.347 W137 07.846	3	
96	285.0	N60 00.346 W137 07.844	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
97	288.0	N60 00.346 W137 07.842	3	
98	291.0	N60 00.345 W137 07.840	3	
99	294.0	N60 00.344 W137 07.838	3	
100	297.0	N60 00.344 W137 07.838	3	*
101	300.0	N60 00.344 W137 07.836	3	
102	303.0	N60 00.343 W137 07.834	3	
103	306.0	N60 00.342 W137 07.831	3	
104	309.0	N60 00.341 W137 07.827	3	
105	312.0	N60 00.340 W137 07.824	3	
106	315.0	N60 00.339 W137 07.821	3	
107	318.0	N60 00.338 W137 07.819	3	
108	321.0	N60 00.337 W137 07.814	3	
109	324.0	N60 00.337 W137 07.812	3	
110	327.0	N60 00.336 W137 07.809	3	
111	330.0	N60 00.335 W137 07.807	3	
112	333.0	N60 00.334 W137 07.804	3	
113	336.0	N60 00.333 W137 07.802	3	
114	339.0	N60 00.332 W137 07.800	3	
115	342.0	N60 00.331 W137 07.798	3	
116	345.0	N60 00.331	3	

		W137 07.796		
117	348.0	N60 00.330 W137 07.793	3	*

Profile 2012_03

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
1	0.0	N60 00.416 W137 07.869	3	*
2	5.0	N60 00.419 W137 07.875	3	
3	10.0	N60 00.420 W137 07.879	3	
4	15.0	N60 00.423 W137 07.883	3	
5	20.0	N60 00.424 W137 07.887	3	
6	25.0	N60 00.424 W137 07.892	3	
7	30.0	N60 00.426 W137 07.897	3	
8	35.0	N60 00.428 W137 07.902	3	
9	40.0	N60 00.429 W137 07.903	3	
10	45.0	N60 00.431 W137 07.908	3	
11	50.0	N60 00.433 W137 07.913	3	
12	55.0	N60 00.434 W137 07.918	3	
13	60.0	N60 00.435 W137 07.923	3	
14	65.0	N60 00.437 W137 07.928	3	
15	70.0	N60 00.438 W137 07.932	3	
16	75.0	N60 00.440 W137 07.937	3	
17	80.0	N60 00.441 W137 07.941	3	
18	85.0	N60 00.442 W137 07.944	3	
19	90.0	N60 00.444 W137 07.950	3	
20	95.0	N60 00.445 W137 07.952	3	
21	100.0	N60 00.447 W137 07.956	3	
22	105.0	N60 00.448 W137 07.960	3	
23	110.0	N60 00.450 W137 07.968	3	
24	115.0	N60 00.451 W137 07.971	3	
25	120.0	N60 00.453 W137 07.976	3	
26	125.0	N60 00.454 W137 07.980	3	
27	130.0	N60 00.456 W137 07.983	3	
28	135.0	N60 00.457 W137 07.987	3	
29	140.0	N60 00.459 W137 07.993	3	
30	145.0	N60 00.460 W137 07.993	3	
31	150.0	N60 00.462 W137 08.001	3	
32	155.0	N60 00.464 W137 08.005	3	
33	160.0	N60 00.468 W137 08.014	3	
34	165.0	N60 00.469 W137 08.019	3	
35	170.0	N60 00.471 W137 08.022	3	
36	175.0	N60 00.473 W137 08.026	3	
37	180.0	N60 00.474 W137 08.031	3	
39	190.0	N60 00.476 W137 08.035	3	
40	195.0	N60 00.477 W137 08.038	3	
41	200.0	N60 00.479 W137 08.041	3	
42	205.0	N60 00.480 W137 08.045	3	
43	210.0	N60 00.483 W137 08.050	3	

Electrode No.	Location in Profile [m]	GPS-Coordinates Latitude/ Longitude hddd° mm.mmm'	GPS-Accuracy [m]	Post [*]
44	215.0	N60 00.484 W137 08.054	3	
45	220.0	N60 00.485 W137 08.060	3	
46	225.0	N60 00.487 W137 08.065	3	
47	230.0	N60 00.489 W137 08.069	3	
48	235.0	N60 00.491 W137 08.072	3	*

Claim Coordinates

Coordinates for the claims from the GIS shapefiles of the Yukon Mining Recorder. The coordinates represent the corners (clockwise) of the claims.

P 42293

60.0038913787949-137.132606252042
60.0051243632542-137.133790356928
60.0074961027051-137.123940717233
60.0062630214763-137.122756886268

P 42294

60.0063573966523-137.134974580464
60.0066951838238-137.135299024174
60.0082189150045-137.136188428747
60.0095437811074-137.125475243126
60.0087435139012-137.125065218061

P 47338

60.0038204871385-137.119537363571
60.0029260087596-137.117469986566
59.9987845917568-137.124613522394
59.9996789581002-137.126680831215

P 46991

60.0005732728558-137.128748217791
60.0047149132754-137.12160483621
60.0044676809392-137.121033425224
60.0038204871385-137.119537363571
59.9996789581002-137.126680831215

P 46992

60.0044676809392-137.121033425224
60.0047149132754-137.12160483621
60.0005732728558-137.128748217791
60.0010702073251-137.129897228405
60.0026583818185-137.131422220959
60.0050298273312-137.12157291716

P 47000

60.0026583818185-137.131422220959
60.0038913787949-137.132606252042
60.0062630214763-137.122756886268
60.0050298273312-137.12157291716

P 47226

60.0137454775688-137.138574379563
60.0150653743474-137.128305746766
60.013948822799 -137.127733302839
60.0125849802584-137.138343822806
60.0137040695264-137.138896389282

Grant Number with Lat. Long.

60.0137188855576-137.138781202748
60.0136843773562-137.138723370989

P 47227

60.0125849802584-137.138343822806
60.013948822799 -137.127733302839
60.0128322759337-137.127160900353
60.0114658765941-137.137791329546

P 47228

60.0114658765941-137.137791329546
60.0128322759337-137.127160900353
60.0117157254397-137.126588520147
60.010346779096 -137.13723884072

P 47229

60.010346779096 -137.13723884072
60.0117157254397-137.126588520147
60.0105991693506-137.126016215767
60.0092276685157-137.136686389406

P 47230

60.0092276685157-137.136686389406
60.0105991693506-137.126016215767
60.0095437887638-137.125475280126
60.0082188784793-137.136188441365

P 47246

60.0051243632542-137.133790356928
60.0063573966523-137.134974580464
60.0087435139012-137.125065218061
60.0074961027051-137.123940717233

P 47291

59.9987845917568-137.124613522394
60.0029260087596-137.117469986566
60.0020315127017-137.115402746086
59.9978865004768-137.122552053292

P 47116

60.0029260087596-137.117469986566
60.0049966260487-137.113897478445
60.0041020022273-137.111830193516
60.0020315127017-137.115402746086