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Mineral resource assessment and 3D modelling of the Lomalampi deposit, Sodankylä Finland

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Mineral resource assessment and 3D modelling of the Lomalampi deposit, Sodankylä Finland

Abstract

The Lomalampi Pt-Pd-Au-Ni-Cu-Co deposit is located in the Sodankylä municipality, Northern Finland, about 70 km north from the centre of Sodankylä. The Lomalampi deposit belongs to about 40 km long and 5 km wide Sattasvaara komatiite formation. Sattasvaara formation belongs to Early Proterozoic Savukoski group and is noted to be composed of ultramafic (komatiitic) and mafic volcanite and related cumulates and volcanogenic debris.

3D modelling and a mineral resource assessment of the Lomalampi deposit was carried out by the Gemcom software, using diamond drill core assay data from 35 diamond drill holes (5342 m). Indicated mineral resources were estimated by solid modelling and in details by block modelling using a 2x2x2m block size.

On the basis of block modelling the Lomalampi deposit contains a 3.1 Mt mineral resource with 0.27 ppm Pt for a 0.10 ppm Pt cut off, or a 0.2 Mt mineral resource with 0.57 ppm Pt for a 0.50 ppm Pt cut off (Table 1). 88 – 100 % of the resources is considered as a measured resource and the rest as an indicated resource. Amount of palladium, gold, nickel, copper and cobalt was also estimated. The recommendations of the Finnish Association of Mining and Metallurgical Engineers were applied to the classifications used. The assessments are consistent with JORC and EFG/PERC -standards. The Lomalampi deposit remains open for expansion at depth and along strike; hence it is possible that the present resource assessment will prove to be conservative in respect to tonnage.

Table 1. Summary of mineral resource assessment.

Cut off Pt ppm	Tonnage Mt	Pt ppm
0.10	3.1	0.27
0.50	0.2	0.57

Keywords

Lomalampi, platinum, palladium, gold, nickel, copper, cobalt, komatiite, exploration, 3D modelling, mineral resource assessment

Geographical area

Finland, Lapland, Sodankylä, Lomalampi

Map sheet

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Mineral resource assessment and 3D modelling of the Lomalampi deposit, Sodankylä Finland

Tiivistelmä

Lomalammen esiintymä sijaitsee Sodankylässä, Pohjois-Suomessa, noin 70 km Sodankylän keskustasta pohjoiseen. Se kuuluu 40 km pitkään ja 5 km leveään Sattasvaaran komatiittimuodostumaan.
Aihetta mallinnettiin kolmiulotteisesti ja sen mineraalivaranto arvioitiin 35 kairareiän (5342 m) tietojen perusteella käyttäen Gemcom –ohjelmistoa. Todennäköinen varanto arvioitiin solidimenetelmällä ja yksityiskohtaisemmin blokkimallinnuksella 2x2x2 m:n blokkikoolla (taulukko 1). Blokkimenetelmällä saatiin todennäköisiksi varannoiksi 3,1 Mt platinapitoisuuden raja-arvolla 0,10 ppm. Varannon Pt-pitoisuus on 0,20 ppm. Raja-arvolla Pt 0,5 ppm varanto on 0,2 Mt Pt-pitoisuuden ollessa 0,57 ppm. Varannoista 88 - 100 % arvioitiin todetuksi varannoksi. Myös palladiumin, kullan, nikkelin, kuparin ja koboltin määrä arvioitiin.
Vuorimiesyhdistyksen suosituksia sovellettiin arvioinnissa ja varantojen luokittelussa. Arvioit noudattavat JORC- ja EFG/PERC –standardien vaatimuksia. Esiintymän laajuus on tutkimuksen tässä vaiheessa rajaamatta etelä- ja pohjoissuunnissa sekä syvyyssuunnassa ja mineraalivaranto on siksi todennäköisesti arvioitua suurempi.

Taulukko 1: Mineraalivarannon yhteenveto:

Raja-arvo Pt ppm	Massa Mt	Pt ppm
0.10	3.1	0.27
0.50	0.2	0.57

Asiasanat (kohde, menetelmät jne.)
Lomalampi, platina, palladium, kulta, nikkeli, kupari, koboltti, komatiitti, malmiesiintymä, kairaus, malminetsintä, 3D -mallinnus, mineraalivarantoarvio

Maantieteellinen alue (maa, lääni, kunta, kylä, esiintymä)
Suomi, Lapin lääni, Sodankylä, Lomalampi

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Contents

1 INTRODUCTION

The Lomalampi deposit is located in the municipality of Sodankylä, Northern Finland, about 70 km north from the centre of Sodankylä (Fig. 1).

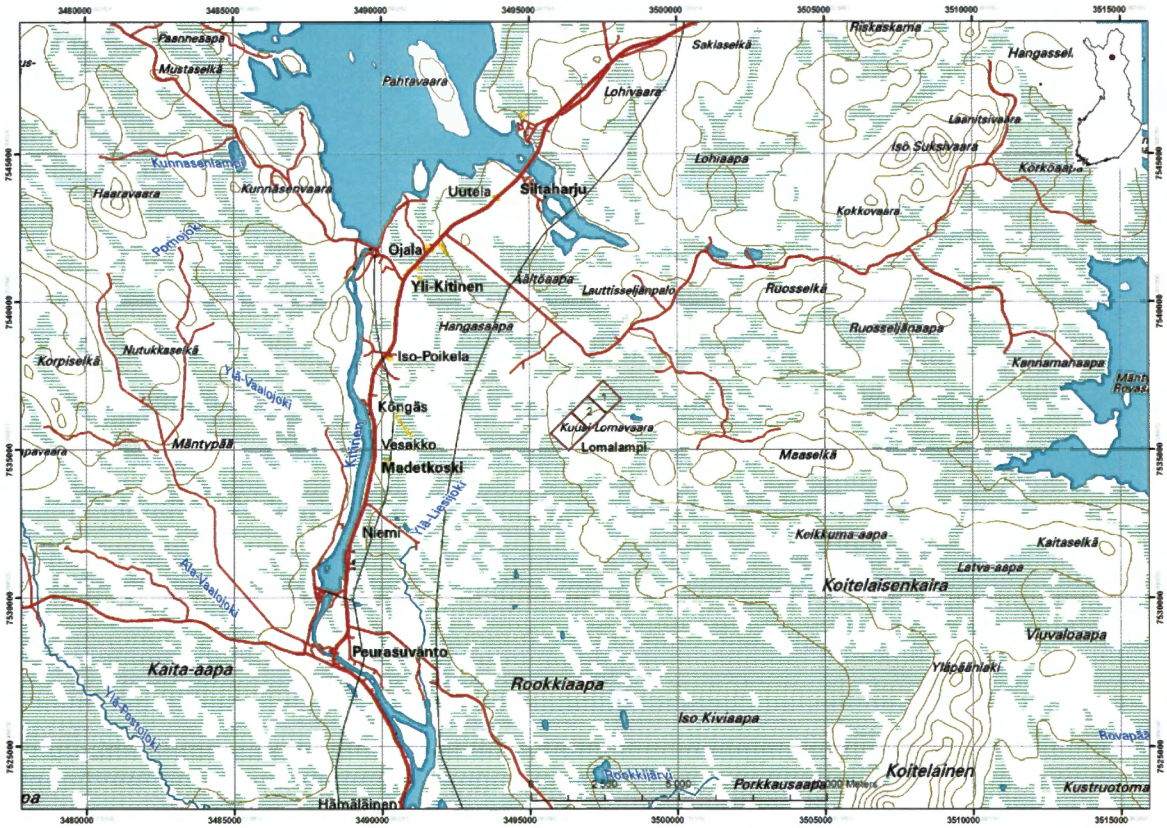


Figure 1. *Location of the Lomalampi deposit. Base map 3723 11. (Basemaps © National Land Survey of Finland, license no. MML/VIR/TIPA/217/10).*

The Lomalampi deposit belongs to Sattasvaara komatiite formation of which areal distributions were outlined in the Lapin vulkaniittiprojekti (Lapland Volcanite Project, 1984-1989), reported by Lehtonen *et al.* 1998. About 40 km long and 5 km wide Sattasvaara formation belongs to Early Proterozoic Savukoski group and it has been interpreted to be ca. 2050 Ma in age. Sattasvaara is part of the succession starting by Salla group and followed by Onkamo, Sodankylä, Savukoski, Kittilä, Lainio and Kumpu groups.

Deposition occurred over a time span of ca. 2500-1900 Ma with number of nondepositional periods. Generally rocks come younger from east to west. Sattasvaara formation is interpreted to overlie subaqueous chemical sediment and Fe-tholeiitic and picritic volcanites. Sattasvaara is overlain by Fe-tholeiite and subaqueous chemical sediments of Kittilä group. The Sattasvaara formation were noted to be composed of ultramafic (komatiitic) and mafic volcanite and related cumulates and volcanogenic debris.

Geological research was activated on Sattasvaara formation in 2002 when a two years' collaboration project (SANI project, Räsänen 2004) between GTK and Australian CSIRO started to look petrological features in order to evaluate the nickel potential of the Sattasvaara formation. This project drilled some geological traverses over the formation and adjacent subracrustal sequences. One traverse was made at Lomalampi 2004 and one drill hole in that traverse intersected Pt mineralized olivine cumulates. The discovery drill hole was 3723/04/R407.

The deposit has been delineated by 48 (R403-450) diamond drill holes (6157 m), during years 2004 and 2006-2009. In this study, drill core assay data from 35 diamond drill holes (5342 m) was utilized. Drill equipment was T56, diamond drill core diameter being ca. 42 mm. Logging was done by Pertti Heikura in GTK's Northern Finland Office. The core was cut into half by GTK with a diamond saw. Half core was sampled for the assay with a maximum sample length of two meters. GTK's geolaboratory in Rovaniemi and Espoo (Labtium Oy Rovaniemi and Espoo 2007-), carried out the ore and petrological analyses.

Logging and analyses were reported in Rovaniemi office and saved into GTK's database. Exploration history, exploration data and the geology of the prospect are described by Törmänen et al. 2010.

This report describes a mineral resource assessment of the Lomalampi deposit based on the diamond drill core assay data. Drill core assays and assay composites are presented in Appendix 1 and locations of the diamond drill holes and vertical sections in Appendix 2. Lithologies and distribution of platinum are presented on vertical sections in Appendix 3 and distribution of platinum on planviews in Appendix 4.

2 STATISTICAL ANALYSIS OF THE DATA

2.1 Statistical parameters and histograms of the data

Statistical parameters of Pt, Pd, Au, Ni, Cu and Co assays are presented in Table 1. The 2546 diamond drill core assays used in this study have an average grade of Pt 0.06 ppm (minimum 0.01, maximum 1.32). Distributions of Pt, Pd, Au, Ni, Cu and Co are lognormal (Fig. 2). There are no distinct populations in the data according to the histogram.

Table 1. *Statistical parameters of the Pt, Pd, Au, Ni Cu and Co assays used in the study.*

Variable (Number of analyses)	Min	Max	Average (length weighted)
Pt ppm (2546)	0.01	1.32	0.06
Pd ppm (2546)	0.01	0.65	0.03
Au ppm (2661)	0.01	3.40	0.03
Ni ppm (2661)	7	10160	884
Cu ppm (2661)	1	8650	243
Co ppm (2591)	1	457	67

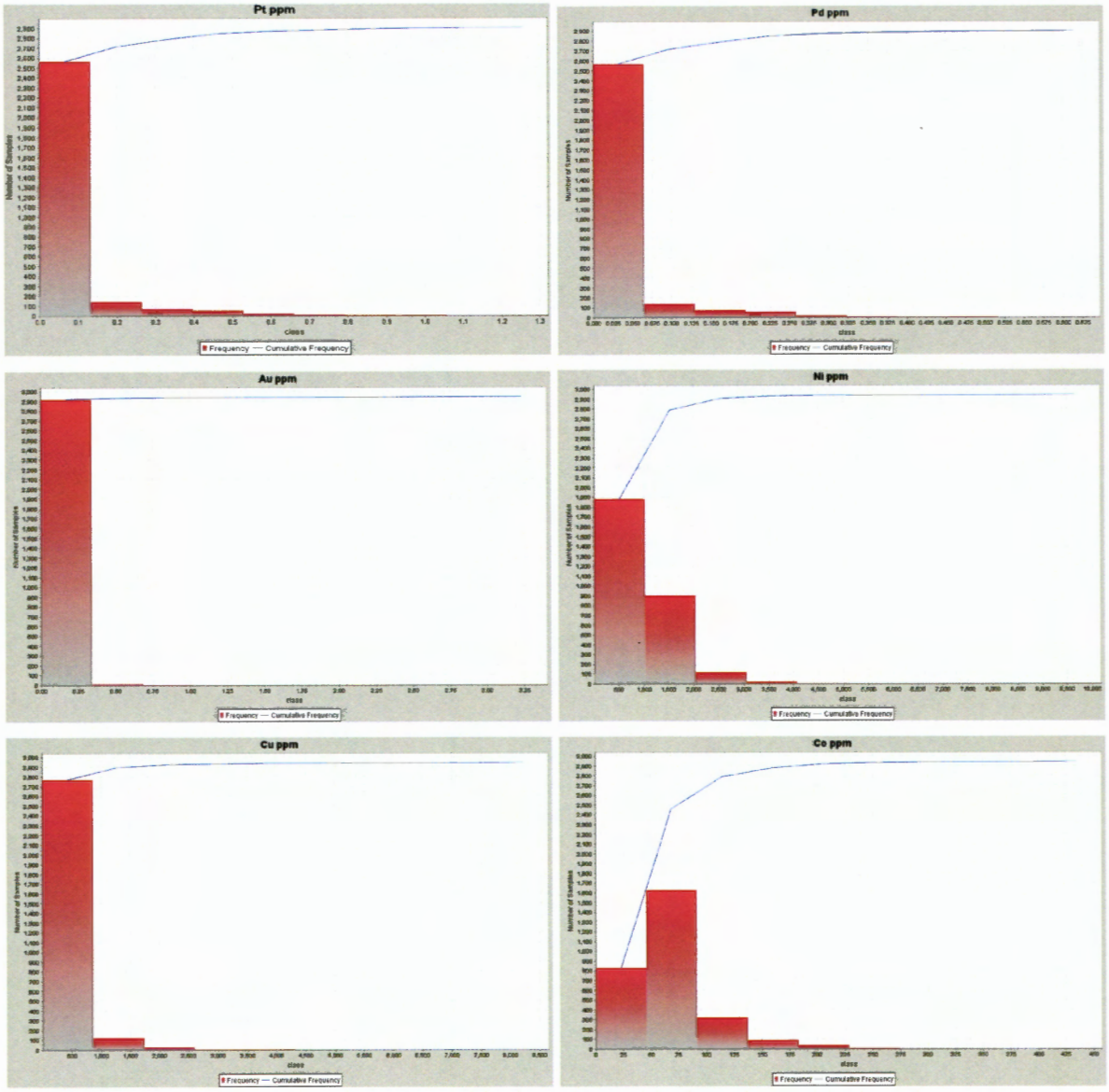


Figure 2. *Distribution of Pt, Pd, Au, Ni Cu and Co assays of the 2546 – 2661 samples used in the study.*

2.2 Compositing of the data

The assays were composited along the length of the diamond drill holes for a cut off value of 0.08 ppm Pt. The grades were weighted by sample lengths. The maximum length of an accepted sample, with Pt less than 0.08 ppm, was optimised to 4.6 m. For a cut off value of 0.08 ppm Pt, there are 52 composites with a total length of 679.60 m and an average grade 0.27 ppm Pt. The average length of the composites is 13.07 m. Statistics of the composited Pt, Pd, Au, Ni, Cu and

Co assays are presented in Table 2. The assays and composites are presented hole by hole also in appendix 1.

Table 2. Statistical parameters of the composited Pt, Pd, Au, Ni Cu and Co assays used in the study.

Variable	Min	Max	Average (length weighted)
Pt ppm	0.06	0.46	0.27
Pd ppm	0.01	0.22	0.12
Au ppm	0.01	3.40	0.08
Ni ppm	52	4907	1631
Cu ppm	2	4349	569
Co ppm	13.5	264	112

3 3D MODELLING AND MINERAL RESOURCE ASSESSMENT METHODS

A preliminary mineral resource assessment for the Lomalampi deposit was done in two stages: first by solid modelling using conventional sectional geological outlining of the mineralized bodies as polygons, and finally, by block modelling. Recommendations of the Finnish Association of Mining and Metallurgical Engineers (VMY 1991) were applied to the methods and classifications used. The assessments are consistent with the JORC and EFG/PERC standards (Internet).

Topographic and bedrock surfaces were modelled using diamond drill hole survey data and a Laplace interpolation method of GEMS. Surface estimations are less reliable far from the positions of the drill collars. There were 4846 density measurements available from the drill cores. Average of all the density values was 2.85 g/cm^3.

3.1 Solid modelling

The average grades for intersections were calculated (compositing in GEMCOM) as follows:

- the grades were weighted by sample lengths
- a cut off grade off 0.08 ppm for Pt was used in selecting samples for the calculations
- maximum length of an accepted sample, with Pt less than 0.08 ppm, was 4.5 metres.

Geological outlining (polygons) of the mineral deposit was done on vertical sections with a view to determine the indicated resources as realistically as possible. Outlining followed precisely composited assays and the range of influence on these sections was set conservatively to a maximum of about 50 metres. The uppermost and lowest outlines were set to the nearest elevations of every 50 m. If a composite extends, for instance, to z = 125, the polygon was digitized downwards to z = 100. If a composite extends to level z = 180, the polygon was digitized to level 150, etc. Outlines of mineralized zones were then connected from section to section and prepared to produce a 3D ore model solid.

Interpretation of outlines of the mineral deposit (polygons) is given on vertical sections in Appendix 3. A 3D view of the solid model of the deposit is presented in Figure 3.

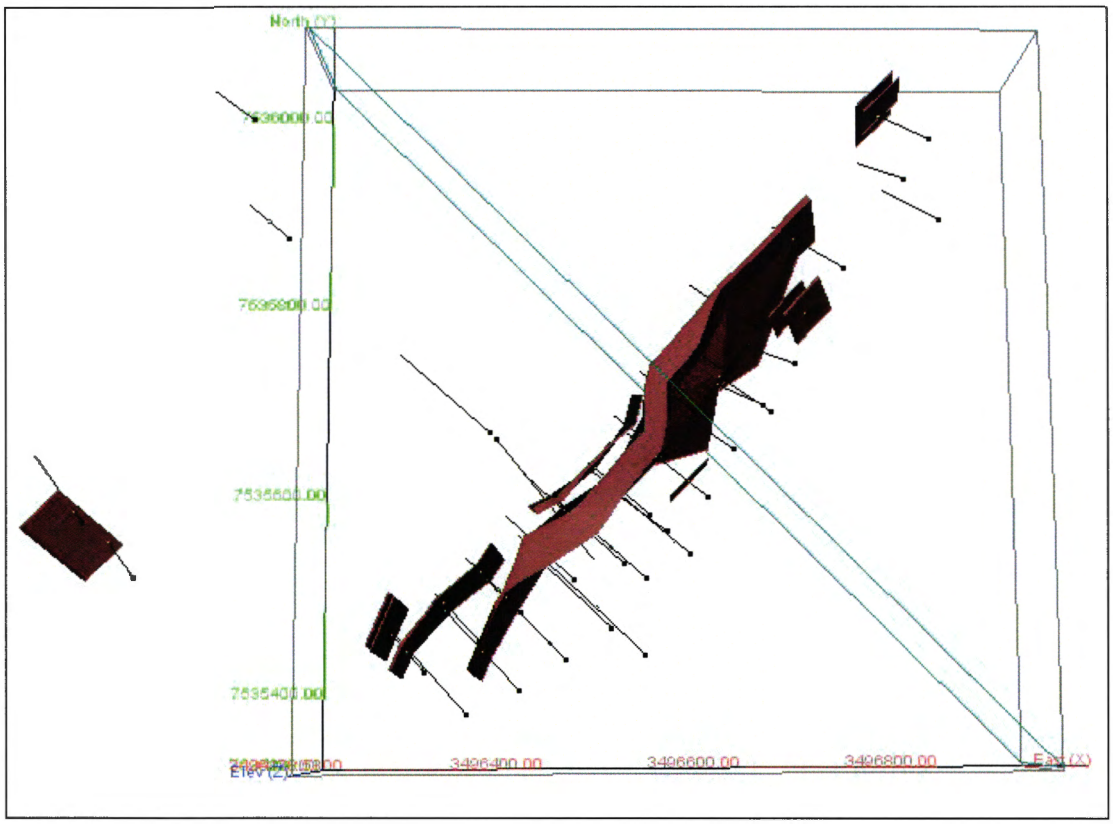


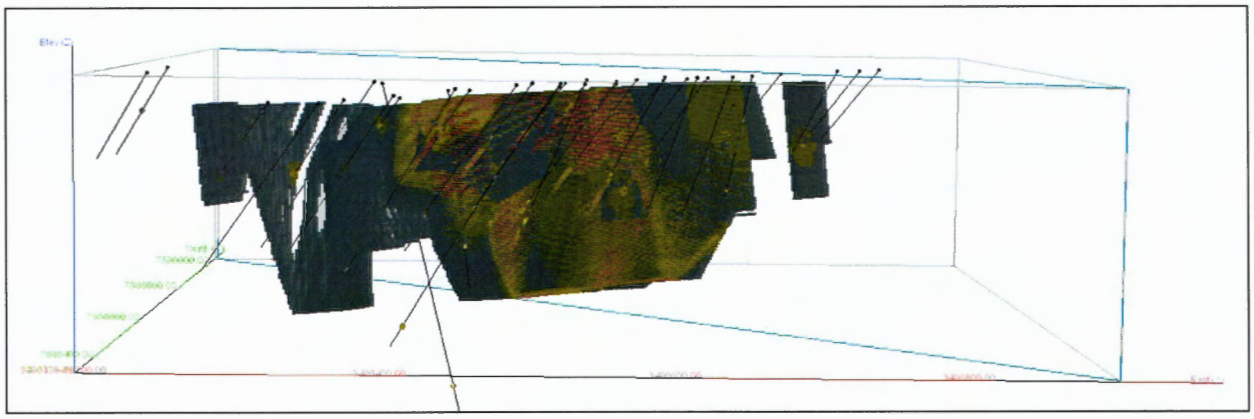
Figure 3. *A solid model of the Lomalampi deposit seen downwards. North is up in the figure and the lines by cyan locate section 20150.*

The volume of the solid model is 1.534 Mm^3 and the average of the densities inside the solid 2.86 g/cm^3. So the solid model shows a total mineral resource of 4.387 Mt. The average grades of the composites in Table 2 also represent the average grades of the solid model.

3.2 Block modelling

For the mineral resource assessment using the block modelling method, the deposit and its surroundings were divided into 2x2x2 m blocks. Average grades were interpolated for each block by inverse distance interpolation weighting of drill core assays by inverse of square of distance (ID2). The trend of the mineralization is roughly NE-SW having a vertical dip in average. Ranges of influence used were 100 m in direction of the trend, 100 m in direction of the dip and 25 m perpendicular to the modelled plane. The interpolation was constrained inside the solid model of the deposit. Similarly, values for densities were interpolated for each block by inverse distance interpolation weighting of drill core densities by inverse of square of distance.

The distribution of blocks with different average grades of Pt is presented on vertical sections in Appendix 3 and on plan views in Appendix 4. Figure 4 presents 3D views of the Pt blocks.



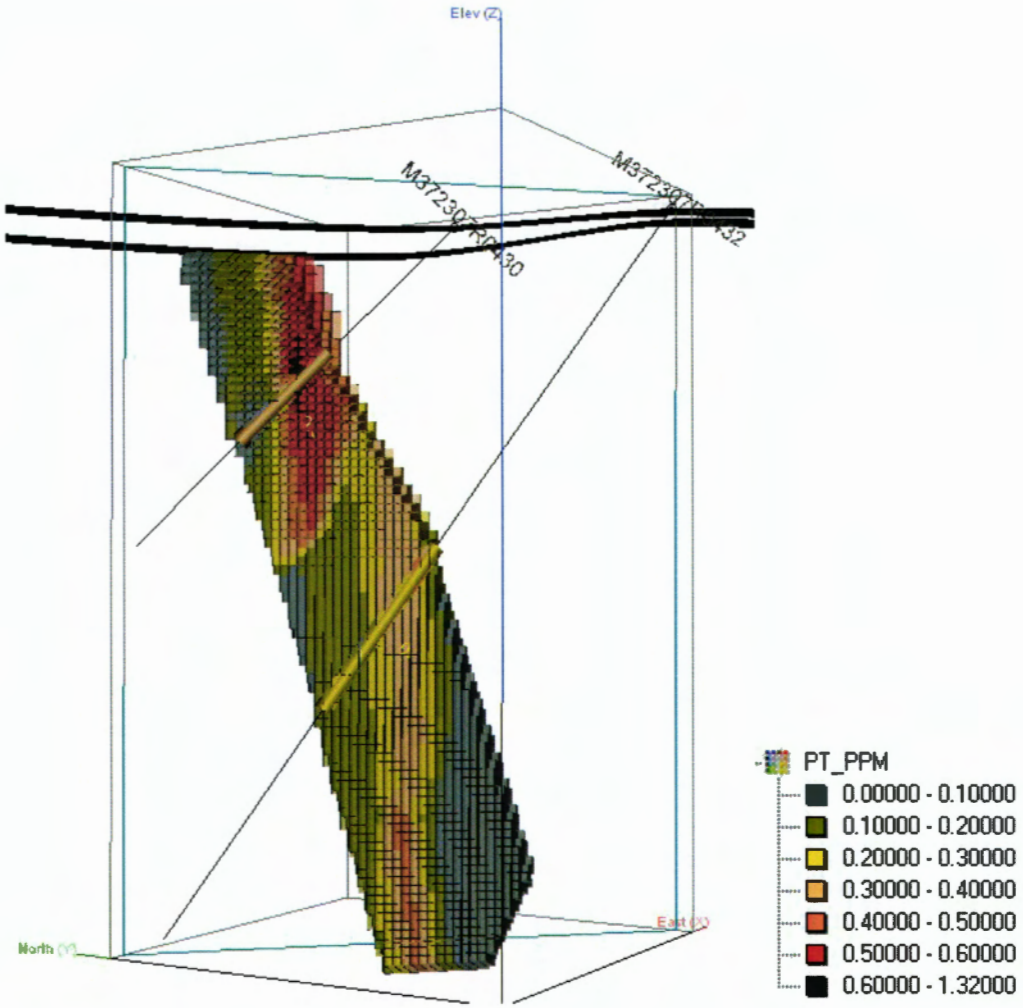


Figure 4. *A block model with the Pt values seen downwards to north (up) and a detail (below) seen towards south-west at vertical section 20150.*

Summary of the mineral resource assessment by block modelling using 2x2x2 m block size is presented in Table 3 and as tonnage and Pt grade curves as function of cut off grade in Figure 4.

Table 3. *Summary of the mineral resource assessment by block modelling:*

Cut off Pt ppm	Pt ppm	Pd ppm	Au ppm	Ni ppm	Cu ppm	Co ppm	Density g/cm^3	Tonnage t
0	0.207	0.095	0.062	1459	517	103	2.846	4307888
0.1	0.269	0.122	0.074	1682	571	117	2.848	3064767
0.2	0.343	0.154	0.085	1862	638	127	2.847	1906397
0.3	0.421	0.191	0.102	2068	784	141	2.857	1055879
0.4	0.503	0.229	0.126	2334	972	156	2.872	505886
0.5	0.573	0.264	0.148	2481	1038	164	2.872	233046
0.6	0.664	0.315	0.175	2411	863	160	2.851	57636

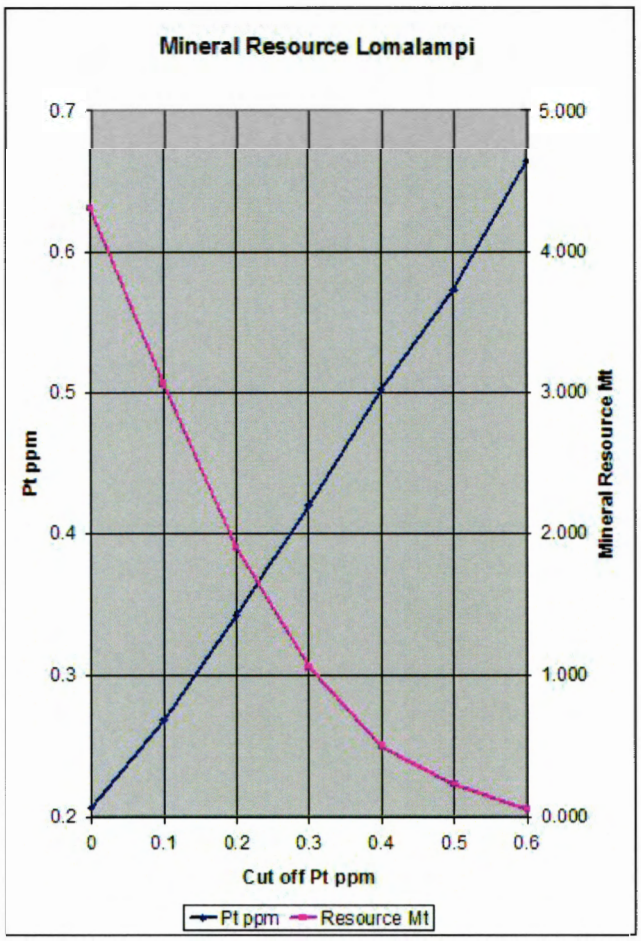


Figure 5. *Mineral resource curves by block modelling as function of cut off grade for platinum.*

On the basis of block modelling, the Lomalampi deposit contains a 3.1 Mt mineral resource with 0.27 ppm Pt with a cut off for Pt at 0.1 ppm, or a 0.2 Mt mineral resource with 0.57 ppm Pt with a cut off for Pt at 0.50 ppm. Respectively the deposit contains 0.12 ppm Pd, 0.07 ppm Au, 1682 ppm Ni, 571 ppm Cu and 117 ppm Co with a cut off for Pt at 0.1 ppm and 0.26 ppm Pd, 0.15 ppm Au, 2481 ppm Ni, 1038 ppm Cu and 164 ppm Co with a cut off for Pt at 0.50 ppm.

3.3 Classification of the resources

Mineral resources are classified by increasing level of geological knowledge and confidence into inferred, indicated and measured categories (JORC, EFG/PERC; Internet). There are no definite

classification rules and classification must be grounded on the experience of the type of the deposit, sample density and confidence of the investigation methods.

The personnel in responsible for the investigations has been most professional and the methods applied most up to date (Törmänen et al. 2010). As a mafic intrusion type deposit, the Lomalampi deposit seems to have a fairly good continuity from section to section. In Lomalampi a main portion of the ore body is penetrated at least by two or three drill holes (Fig. 6, appendix 3). The distances from section to section are 50 m. Geological outlining on the sections followed precisely composited assays and the range of influence on these sections was set conservatively to a maximum of about 50 metres. To estimate the indicated mineral resources, block modelling was applied avoiding exaggeration. In the block modelling interpolation, a minimum of 2 samples was required and the drill core assays were weighted by inverse of square of distance (ID2). Ranges of influence used were 100 m in direction of the trend, 100 m in direction of the dip and 25 m perpendicular to the modelled plane. To estimate the measured resources, more conservative block model interpolations were done. With ranges of influence of 50 m, 12.5 m and 50 m and with a minimum of 2 samples, measured resources were estimated to a 3.8 Mt with 0.22 ppm Pt with a cut off for Pt at 0.00 ppm, or a 2.8 Mt mineral resource with 0.27 ppm Pt with a cut off for Pt at 0.10 ppm, or a 0.2 Mt mineral resource with 0.57 ppm Pt with a cut off for Pt at 0.50 ppm. On the grounds given above and based on this comparative block model estimation, 88 – 100 % of the resources can be considered as a measured resource and 0 – 12 % as an indicated resource.

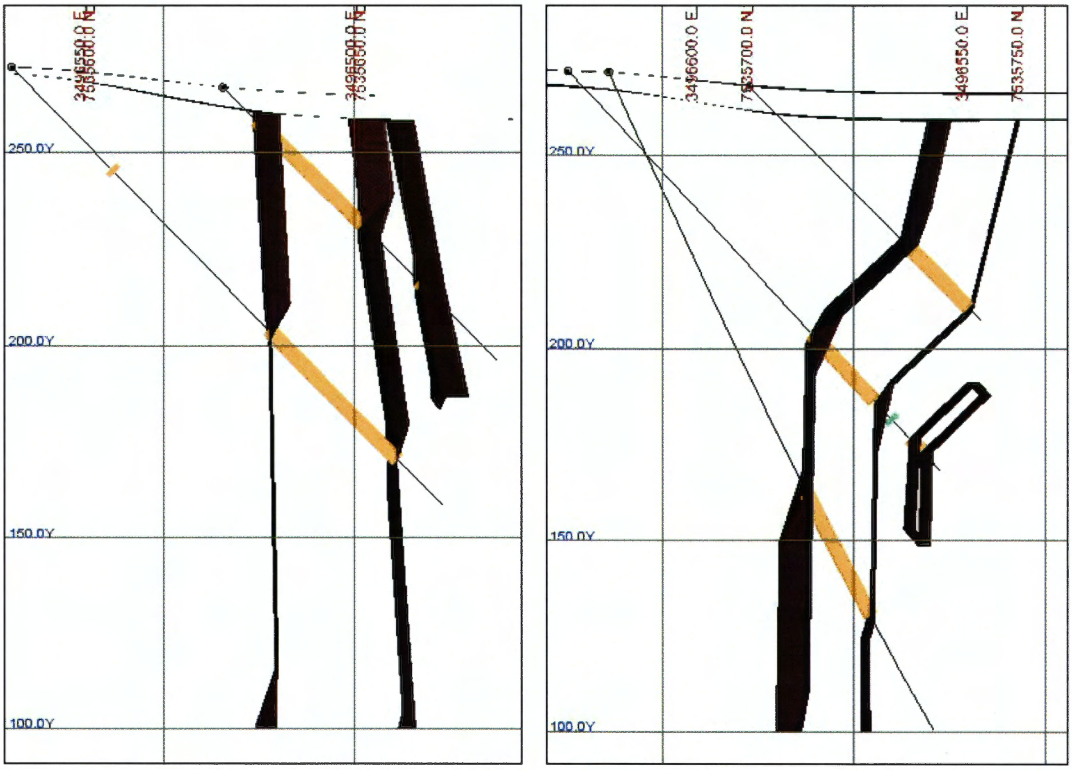


Figure 6. *Two or three drill holes penetrate the ore in most of the vertical sections. Section 20100 on the left, section 20200 on the right.*

4 DISCUSSION OF METHODS AND RESULTS

Mineral resource assessment of the Lomalampi deposit was done in two ways, by solid modelling and by block modelling. Results of solid modelling represent an averaging estimate of the resource. The block estimate covers resources by different cut off values of Pt inside the solid model of the deposit.

Drilling has confirmed a continuous 550 m long and 8 – 40 m wide mineralized zone striking SW-NE and 11 other disconnected smaller zones in an area of about 750 m in length (Fig. 3). Modelling was reached to a depth of z = 100 m above sea level which is about 160 – 170 m below the surface. A 3D ore body was modelled by solid modelling connecting polygons to each other on adjacent vertical sections. However, there is some uncertainty in making these polygon connections but this does not markedly affect to the grade and tonnage estimations. The volume of the solid model was 1.5 Mm^3 and the average of the densities inside the solid 2.86 g/cm^3. So the solid model shows a total mineral resource of 4.4 Mt.

On the basis of block modelling, the Lomalampi deposit contains a 3.1 Mt mineral resource with 0.27 ppm Pt with a cut off for Pt at 0.10 ppm, or a 0.2 Mt mineral resource with 0.57 ppm Pt with a cut off for Pt at 0.50 ppm. Respectively the deposit contains 0.12 ppm Pd, 0.07 ppm Au, 1682 ppm Ni, 571 ppm Cu and 117 ppm Co with a cut off for Pt at 0.10 ppm, and 0.26 ppm Pd, 0.15 ppm Au, 2481 ppm Ni, 1038 ppm Cu and 164 ppm Co with a cut off for Pt at 0.50 ppm. On the grounds of highly professional investigation and sufficient sampling, a main portion of 88 – 100 % of the resources can be considered as a measured resource. The rest of the resources are considered as an indicated resource. High cut off values for platinum give relatively more measured resources compared to low cut offs.

Reliability of the modelling and assessment can be evaluated also by observing original assay composites on diamond drill holes and interpretation of mineral occurrence by solid modelling and block modelling (App. 3 and 4). Indicated tonnages estimated by solid modelling and based strictly on composites may be fairly realistic and probably underestimate the tonnage. Continuity between sections may be assigned differently but this will not significantly affect calculated tonnages and grades. Measured tonnage estimates by solid modelling based on conservative ranges of influence may not lead to overestimation of the resources. The affects of faulting could not be taken into consideration in the resource calculations provided here.

The deposit is open downwards and may have extensions to SW and NE. Hence it is possible that the present resource assessment will prove to be conservative in respect to tonnage. For a more reliable resource assessment and 3D modelling of the deposit, more drill core samples are needed.

Recommendations of the Finnish Association of Mining and Metallurgical Engineers (1991) and JORC and EFG/PEC Code (Internet) were applied to the classifications used. Thus the assessments are consistent with JORC and EFG/PERC standards.

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JORC. http://www.jorc.org/

Gemcom GEMS. http://www.gemcomsoftware.com/

APPENDICES

Appendix 1.1. Assays of the drill core samples.

Appendix 1.2. Composites of the drill core samples.

Appendix 2. Drill hole collar positions and vertical section locations.

Appendix 3.1. Vertical sections: drill holes, lithologies, Pt distributions.

Appendix 3.2. Vertical sections: drill holes, Pt composites, Pt blocks.

Appendix 4. Planviews: drill holes, Pt composites, Pt blocks.

HOLE-ID	FROM	TO	Length	PT	PD	AU	NI	CU	CO
M372306R412	82.3	83.4	0.087	0.011	0.01	0.108	716	33	40
M372306R413	72.6	74.6	0.087	0.02	0.03	0.137	1090	750	79
M372306R413	76.6	78.6	0.089	0.017	0.01	0.116	1290	289	96
M372306R413	46.6	48.6	0.103	0.042	0.01	0.155	1260	399	95
M372306R413	74.6	76.6	0.11	0.029	0.013	0.152	1390	198	97
M372306R413	100.75	101.9	0.126	0.037	0.01	0.173	1050	360	83
M372306R413	101.9	103.9	0.245	0.205	0.043	0.493	1360	665	87
M372306R413	58.6	60.6	0.37	0.195	0.059	0.624	2250	1190	156
M372306R413	68.6	70.6	0.403	0.121	0.087	0.611	2380	662	168
M372306R413	48.6	50.6	0.495	0.249	0.063	0.807	2120	883	153
M372306R413	66.6	68.6	0.497	0.198	0.152	0.847	2110	1640	156
M372306R413	54.6	56.6	0.523	0.248	0.059	0.83	2550	804	162
M372306R413	64.6	66.6	0.552	0.222	0.013	0.787	2330	980	172
M372306R413	50.6	52.6	0.556	0.254	0.109	0.919	2120	950	145
M372306R413	60.6	62.6	0.595	0.275	0.043	0.913	2430	1460	168
M372306R413	62.6	64.6	0.625	0.253	0.167	1.045	2210	976	155
M372306R413	56.6	58.6	0.701	0.294	0.229	1.224	2690	856	174
M372306R413	52.6	54.6	0.878	0.612	0.271	1.761	5500	1080	329
M372306R414	134	136	0.084	0.047	0.01	0.141	971	82	68
M372306R414	136	138	0.088	0.047	0.01	0.145	1110	104	86
M372306R414	64.9	66.9	0.098	0.026	0.01	0.134	765	28	53
M372306R414	142	144	0.135	0.065	0.066	0.266	1420	119	77
M372306R414	140	142	0.245	0.159	0.014	0.418	1250	204	77
M372306R414	144	146	0.303	0.154	0.073	0.53	1350	177	78
M372306R414	138	140	0.365	0.179	0.049	0.593	1760	301	128
M372306R414	146	148.35	0.425	0.211	0.089	0.725	1330	221	82
M372306R415	93.55	95	0.083	0.071	0.188	0.342	1110	2	70
M372306R415	252.5	254	0.131	0.077	0.01	0.218	618	493	60
M372306R415	251	252.5	0.32	0.17	0.01	0.5	1130	315	72
M372306R416	59.85	61.85	0.117	0.035	0.013	0.165	1430	264	99
M372306R416	87.85	89.85	0.134	0.057	0.01	0.201	1010	351	67
M372306R416	75.85	77.85	0.137	0.061	0.021	0.219	1250	209	81
M372306R416	41.9	43.9	0.141	0.066	0.013	0.22	1110	242	69
M372306R416	77.85	79.85	0.149	0.048	0.01	0.207	1510	257	94
M372306R416	81.85	83.85	0.157	0.056	0.01	0.223	1650	722	127
M372306R416	83.85	85.85	0.164	0.058	0.028	0.25	1290	207	94
M372306R416	89.85	91.8	0.186	0.101	0.01	0.297	1110	1770	129
M372306R416	65.85	67.85	0.187	0.049	0.01	0.246	1200	182	84
M372306R416	79.85	81.85	0.205	0.061	0.01	0.276	1660	323	95
M372306R416	39.9	41.9	0.229	0.093	0.01	0.332	1200	106	77
M372306R416	53.9	55.85	0.241	0.08	0.015	0.336	1450	320	100
M372306R416	57.85	59.85	0.245	0.078	0.022	0.345	1690	289	115
M372306R416	67.85	69.85	0.258	0.083	0.03	0.371	1680	424	110
M372306R416	55.85	57.85	0.278	0.104	0.044	0.426	1800	344	121
M372306R416	71.85	73.85	0.423	0.17	0.099	0.692	1880	319	113
M372306R416	69.85	71.85	0.463	0.192	0.097	0.752	2440	429	145
M372306R416	73.85	75.85	0.49	0.187	0.226	0.903	2060	378	118
M372306R416	51.9	53.9	0.518	0.265	0.032	0.815	2980	1190	193
M372306R416	49.9	51.9	0.742	0.375	0.066	1.183	2780	1290	183
M372306R416	43.9	45.9	0.794	0.429	0.037	1.26	2900	749	162
M372306R416	47.9	49.9	0.872	0.4	0.088	1.36	2720	1080	165

M372306R416	45.9	47.9	1.32	0.646	0.192	2.158	3770	1620	210
M372306R417	77.7	79.7	0.352	0.204	0.011	0.567	1740	426	114
M372307R0418	64.7	66.2	0.086	0.034	0.238	0.358	1390	67	52
M372307R0418	58.7	60.2	0.09	0.058	0.05	0.198	1060	116	75
M372307R0418	115.7	117.2	0.106	0.024	0.218	0.348	1180	209	64
M372307R0418	114.2	115.7	0.111	0.038	2.14	2.289	818	211	81
M372307R0418	63.2	64.7	0.116	0.067	0.093	0.276	1390	82	78
M372307R0418	108.2	109.7	0.13	0.059	0.035	0.224	776	69	143
M372307R0418	109.7	111.2	0.143	0.084	0.064	0.291	904	110	51
M372307R0418	88.7	90.2	0.175	0.084	0.122	0.381	1040	300	69
M372307R0418	106.7	108.2	0.192	0.076	0.061	0.329	1470	267	70
M372307R0418	84.2	85.7	0.197	0.09	0.012	0.299	1360	211	87
M372307R0418	87.2	88.7	0.227	0.165	0.039	0.431	1560	286	104
M372307R0418	82.7	84.2	0.23	0.137	0.045	0.412	1890	617	107
M372307R0418	93.2	94.7	0.247	0.156	0.106	0.509	1320	351	212
M372307R0418	90.2	91.7	0.276	0.12	0.098	0.494	1170	328	52
M372307R0418	91.7	93.2	0.28	0.163	0.041	0.484	1950	1030	117
M372307R0418	79.7	81.2	0.302	0.149	0.038	0.489	1700	299	103
M372307R0418	96.2	97.7	0.327	0.151	0.151	0.629	1460	417	138
M372307R0418	76.7	78.2	0.335	0.173	0.027	0.535	2160	396	129
M372307R0418	112.7	114.2	0.341	0.143	0.176	0.66	1690	560	117
M372307R0418	81.2	82.7	0.356	0.217	0.063	0.636	2390	845	132
M372307R0418	67.7	69.2	0.4	0.212	0.024	0.636	1870	676	133
M372307R0418	85.7	87.2	0.426	0.199	0.049	0.674	1730	172	107
M372307R0418	69.2	70.7	0.462	0.21	0.065	0.737	2090	454	137
M372307R0418	72.2	73.7	0.465	0.227	0.079	0.771	2060	411	127
M372307R0418	94.7	96.2	0.47	0.183	1.22	1.873	1590	254	34
M372307R0418	105.2	106.7	0.492	0.248	0.044	0.784	1130	176	56
M372307R0418	75.2	76.7	0.507	0.255	0.297	1.059	2330	874	134
M372307R0418	111.2	112.7	0.509	0.189	0.088	0.786	1980	432	137
M372307R0418	73.7	75.2	0.572	0.244	0.46	1.276	2470	1080	154
M372307R0418	78.2	79.7	0.619	0.305	0.122	1.046	2760	598	179
M372307R0418	70.7	72.2	0.621	0.293	0.037	0.951	2160	445	133
M372307R0418	103.7	105.2	0.657	0.307	0.12	1.084	2060	439	130
M372307R0418	97.7	99.2	0.889	0.478	0.238	1.605	2860	566	250
M372307R0418	99.2	100.7	0.967	0.515	0.874	2.356	2850	872	199
M372307R0418	102.2	103.7	1.01	0.494	0.167	1.671	2860	629	249
M372307R0418	100.7	102.2	1.12	0.498	0.197	1.815	2680	583	130
M372307R0419	28.8	30.3	0.093	0.088	0.01	0.191	1590	560	98
M372307R0419	112.8	114.3	0.096	0.071	0.01	0.177	1230	140	57
M372307R0419	114.3	115.8	0.099	0.078	0.01	0.187	954	113	53
M372307R0419	120.3	121.8	0.101	0.108	0.028	0.237	1470	95	75
M372307R0419	16.9	18.35	0.103	0.065	0.02	0.168	804	446	50
M372307R0419	66.3	67.8	0.103	0.017	0.272	0.392	1340	408	118
M372307R0419	106.8	108.3	0.106	0.059	0.037	0.202	1180	262	70
M372307R0419	117.3	118.8	0.122	0.148	0.01	0.28	1520	108	70
M372307R0419	78.3	79.8	0.128	0.043	0.034	0.205	1020	129	63
M372307R0419	76.8	78.3	0.129	0.033	0.012	0.174	1180	141	78
M372307R0419	67.8	69.3	0.14	0.059	0.508	0.707	738	141	54
M372307R0419	90.3	91.8	0.141	0.068	0.01	0.219	979	235	56
M372307R0419	108.3	109.8	0.144	0.084	0.061	0.289	1240	196	78
M372307R0419	79.8	81.3	0.145	0.041	0.01	0.196	1190	219	74

M372307R0419	85.8	87.3	0.172	0.09	0.01	0.272	1150	258	63
M372307R0419	115.8	117.3	0.172	0.194	0.01	0.376	1220	143	68
M372307R0419	91.8	93.3	0.176	0.094	0.01	0.28	1100	264	64
M372307R0419	81.3	82.8	0.178	0.06	0.028	0.266	1190	108	72
M372307R0419	111.3	112.8	0.178	0.122	0.049	0.349	1390	142	68
M372307R0419	82.8	84.3	0.183	0.065	0.01	0.258	1300	199	86
M372307R0419	75.3	76.8	0.188	0.062	0.077	0.327	1240	269	81
M372307R0419	27.3	28.8	0.193	0.094	0.01	0.297	1020	493	67
M372307R0419	93.3	94.8	0.198	0.109	0.01	0.317	1380	1310	202
M372307R0419	105.3	106.8	0.202	0.094	0.03	0.326	912	92	55
M372307R0419	109.8	111.3	0.204	0.119	0.07	0.393	1140	174	79
M372307R0419	12	13.5	0.218	0.054	0.013	0.285	921	943	80
M372307R0419	87.3	88.8	0.232	0.107	0.068	0.407	1040	151	61
M372307R0419	102.3	103.8	0.238	0.123	0.044	0.405	1310	168	107
M372307R0419	73.8	75.3	0.246	0.096	0.012	0.354	1210	397	90
M372307R0419	70.8	72.3	0.258	0.118	0.034	0.41	2680	2210	162
M372307R0419	94.8	96.3	0.271	0.114	0.035	0.42	1240	232	60
M372307R0419	100.8	102.3	0.273	0.14	0.066	0.479	1200	155	52
M372307R0419	64.8	66.3	0.275	0.102	0.142	0.519	1510	429	72
M372307R0419	96.3	97.8	0.29	0.142	0.049	0.481	1240	174	92
M372307R0419	72.3	73.8	0.315	0.128	0.091	0.534	1950	755	134
M372307R0419	88.8	90.3	0.327	0.128	0.318	0.773	1670	772	111
M372307R0419	97.8	99.3	0.371	0.193	0.124	0.688	1290	241	104
M372307R0419	10.75	12	0.381	0.155	0.01	0.546	1160	526	87
M372307R0419	84.3	85.8	0.387	0.15	0.251	0.788	1240	283	77
M372307R0419	21.35	22.85	0.389	0.185	0.01	0.574	1210	396	70
M372307R0419	69.3	70.8	0.39	0.176	0.047	0.613	1180	209	68
M372307R0419	63.3	64.8	0.391	0.126	0.138	0.655	1860	740	115
M372307R0419	22.85	24.25	0.421	0.208	0.02	0.629	1490	602	108
M372307R0419	9.65	10.75	0.432	0.152	0.01	0.594	1750	1770	128
M372307R0419	99.3	100.8	0.455	0.223	0.152	0.83	1370	237	85
M372307R0419	6.8	9.65	0.459	0.175	0.01	0.634	1140	521	81
M372307R0419	19.85	21.35	0.626	0.293	0.011	0.93	2040	604	133
M372307R0419	18.35	19.85	0.659	0.304	0.014	0.977	1670	374	140
M372307R0420	246.7	248.2	0.22	0.11	0.01	0.34	761	125	58
M372307R0420	245.2	246.7	0.462	0.187	0.01	0.659	952	132	74
M372307R0421	138	139.5	0.165	0.221	0.01	0.396	2290	272	99
M372307R0422	43.15	44.65	0.086	0.05	0.01	0.146	1130	234	77
M372307R0422	32.65	34.15	0.089	0.051	0.02	0.16	655	576	80
M372307R0422	46.15	47.65	0.091	0.049	0.01	0.15	1350	286	100
M372307R0422	44.65	46.15	0.101	0.072	0.02	0.193	1520	474	109
M372307R0422	80.65	82.15	0.193	0.12	0.02	0.333	1270	803	105
M372307R0422	29.65	31.15	0.405	0.15	0.173	0.728	344	557	58
M372307R0423	32.3	33.8	0.087	0.047	0.014	0.148	958	6	67
M372307R0423	186.4	187.9	0.102	0.07	0.011	0.183	379	40	44
M372307R0423	116.3	117.8	0.126	0.048	0.01	0.184	552	427	73
M372307R0423	180.4	181.9	0.159	0.059	0.01	0.228	278	72	47
M372307R0424	79.2	80.7	0.081	0.09	0.01	0.181	1250	21	79
M372307R0424	82.2	83.7	0.129	0.029	0.011	0.169	933	69	66
M372307R0424	83.7	85.2	0.155	0.031	0.038	0.224	851	473	65
M372307R0424	163.2	164.7	0.218	0.073	0.016	0.307	2060	2430	228
M372307R0425	41.3	42.7	0.093	0.046	0.014	0.153	726	104	78

M372307R0425	8.3	9.8	0.094	0.015	0.01	0.119	801	49	62
M372307R0425	39.8	41.3	0.15	0.073	0.026	0.249	767	224	93
M372307R0425	80.3	82.25	0.207	0.083	0.01	0.3	625	269	61
M372307R0425	72.75	74.25	0.245	0.164	0.065	0.474	639	37	32
M372307R0427	28.1	29.6	0.094	0.116	3.4	3.61	1180	4000	112
M372307R0427	136.1	137.6	0.119	0.057	0.047	0.223	1230	840	108
M372307R0427	133.1	134.6	0.148	0.065	0.01	0.223	998	212	89
M372307R0427	158.6	160.1	0.15	0.064	0.073	0.287	1250	312	93
M372307R0427	134.6	136.1	0.187	0.084	0.01	0.281	1470	161	119
M372307R0427	160.1	161.5	0.199	0.058	0.158	0.415	1480	397	106
M372307R0427	155.6	157.1	0.236	0.104	0.033	0.373	1500	245	101
M372307R0427	142.1	143.6	0.245	0.124	0.01	0.379	1260	278	98
M372307R0427	146.6	148.1	0.248	0.12	0.011	0.379	935	68	74
M372307R0427	137.6	139.1	0.261	0.117	0.01	0.388	1430	273	105
M372307R0427	140.6	142.1	0.28	0.159	0.01	0.449	1870	247	144
M372307R0427	157.1	158.6	0.297	0.18	0.113	0.59	1910	280	107
M372307R0427	154.1	155.6	0.33	0.147	0.027	0.504	1600	306	99
M372307R0427	152.6	154.1	0.347	0.223	0.037	0.607	2080	648	129
M372307R0427	143.6	145.1	0.386	0.194	0.01	0.59	1510	232	102
M372307R0427	145.1	146.6	0.391	0.221	0.015	0.627	1440	190	96
M372307R0427	149.6	151.1	0.397	0.211	0.029	0.637	1860	479	121
M372307R0427	139.1	140.6	0.471	0.219	0.01	0.7	1760	614	124
M372307R0427	151.1	152.6	0.549	0.242	0.01	0.801	1660	197	108
M372307R0427	148.1	149.6	0.67	0.305	0.078	1.053	1960	455	125
M372307R0428	127.55	129.05	0.084	0.064	0.01	0.158	1350	18	82
M372307R0428	118.5	120	0.11	0.064	0.019	0.193	1020	26	74
M372307R0428	158.35	158.8	0.127	0.067	0.01	0.204	1130	1020	114
M372307R0428	148.8	150.3	0.156	0.051	0.06	0.267	1160	281	78
M372307R0428	150.3	151.95	0.176	0.084	0.039	0.299	1260	218	82
M372307R0428	136.65	138.15	0.186	0.09	0.01	0.286	1440	386	117
M372307R0428	129.05	130.55	0.189	0.173	0.021	0.383	1200	78	75
M372307R0428	133.6	135.1	0.205	0.108	0.01	0.323	1240	447	106
M372307R0428	151.95	153.45	0.223	0.067	0.028	0.318	1810	486	106
M372307R0428	132.1	133.6	0.249	0.128	0.012	0.389	1350	375	114
M372307R0428	153.45	155.25	0.256	0.086	0.131	0.473	1420	376	83
M372307R0428	135.1	136.65	0.325	0.171	0.01	0.506	1740	323	136
M372307R0428	138.15	139.65	0.352	0.192	0.016	0.56	2190	537	164
M372307R0428	141.15	142.75	0.371	0.175	0.022	0.568	1900	396	141
M372307R0428	145.75	147.25	0.448	0.206	0.29	0.944	1940	267	123
M372307R0428	142.75	144.25	0.449	0.245	0.016	0.71	2170	578	156
M372307R0428	144.25	145.75	0.484	0.231	0.031	0.746	1790	320	112
M372307R0428	139.65	141.15	0.528	0.275	0.023	0.826	2140	888	156
M372307R0428	147.25	148.8	0.614	0.332	0.51	1.456	2970	396	160
M372307R0429	37.5	39	0.082	0.018	0.042	0.142	1440	589	104
M372307R0429	45	46.5	0.11	0.038	0.01	0.158	1940	1330	152
M372307R0429	48	49.5	0.113	0.052	0.01	0.175	2550	770	196
M372307R0429	43.5	45	0.133	0.045	0.01	0.188	2740	468	193
M372307R0429	12	13.5	0.134	0.088	0.036	0.258	1200	265	82
M372307R0429	34.5	36	0.143	0.042	0.074	0.259	1530	833	103
M372307R0429	71.5	73	0.143	0.054	0.024	0.221	1410	647	104
M372307R0429	13.5	15.05	0.153	0.07	0.091	0.314	965	204	71
M372307R0429	49.5	51	0.179	0.062	0.02	0.261	2670	1160	205

M372307R0429	16.5	18	0.189	0.075	0.039	0.303	843	199	71
M372307R0429	19.5	21	0.202	0.072	0.04	0.314	834	123	71
M372307R0429	18	19.5	0.241	0.09	0.039	0.37	868	194	72
M372307R0429	21	22.5	0.249	0.1	0.056	0.405	1120	297	100
M372307R0429	15.05	16.5	0.316	0.171	0.04	0.527	1280	420	99
M372307R0429	33	34.5	0.39	0.134	0.068	0.592	2480	833	155
M372307R0429	30	31.5	0.508	0.236	0.068	0.812	2350	865	150
M372307R0429	31.5	33	0.574	0.209	0.175	0.958	2720	851	161
M372307R0429	22.5	24	0.695	0.296	0.088	1.079	2100	1580	176
M372307R0429	28.5	30	0.724	0.332	0.042	1.098	2440	1220	179
M372307R0429	27	28.5	0.762	0.374	0.015	1.151	2830	1210	191
M372307R0429	24	25.5	0.823	0.38	0.261	1.464	2260	1380	166
M372307R0429	25.5	27	0.973	0.44	0.154	1.567	2560	1450	161
M372307R0430	57	58.5	0.119	0.033	0.019	0.171	1260	434	101
M372307R0430	63	64.5	0.123	0.038	0.01	0.171	2110	741	152
M372307R0430	67.5	69	0.17	0.061	0.01	0.241	1370	828	97
M372307R0430	55.5	57	0.237	0.096	0.059	0.392	1290	395	92
M372307R0430	41.1	43.5	0.383	0.121	0.034	0.538	1640	1330	98
M372307R0430	45	46.5	0.394	0.13	0.126	0.65	3420	1640	215
M372307R0430	54	55.5	0.467	0.219	0.036	0.722	3230	1560	221
M372307R0430	52.5	54	0.468	0.243	0.234	0.945	2600	1070	185
M372307R0430	51	52.5	0.491	0.226	0.055	0.772	2930	1770	204
M372307R0430	46.5	48	0.506	0.215	0.199	0.92	2880	1900	189
M372307R0430	43.5	45	0.681	0.213	0.474	1.368	3500	2460	207
M372307R0430	48	49.5	0.802	0.313	0.266	1.381	4620	3080	300
M372307R0430	49.5	51	0.947	0.385	0.267	1.599	5200	3850	339
M372307R0431	79.1	80.6	0.111	0.059	0.044	0.214	1600	613	186
M372307R0431	62.6	64.1	0.125	0.044	0.135	0.304	3630	1980	233
M372307R0431	77.6	79.1	0.127	0.029	0.021	0.177	1190	332	96
M372307R0431	74.6	76.1	0.161	0.062	0.039	0.262	1930	911	131
M372307R0431	61.1	62.6	0.18	0.062	0.111	0.353	3910	1760	239
M372307R0431	59.6	61.1	0.24	0.078	0.037	0.355	2210	522	125
M372307R0431	64.1	65.6	0.258	0.121	0.129	0.508	3460	2050	233
M372307R0431	80.6	82.1	0.308	0.161	0.019	0.488	1540	1030	84
M372307R0431	65.6	67.1	0.376	0.145	0.144	0.665	2820	1720	190
M372307R0431	67.1	68.6	0.491	0.209	0.108	0.808	2720	1660	189
M372307R0431	58.1	59.6	0.654	0.197	0.296	1.147	2000	359	79
M372307R0431	70.1	71.6	0.68	0.302	0.085	1.067	2850	2380	198
M372307R0431	73.1	74.6	0.702	0.244	0.279	1.225	3420	2160	251
M372307R0431	71.6	73.1	0.822	0.318	0.109	1.249	2890	1620	197
M372307R0431	68.6	70.1	0.934	0.335	0.159	1.428	3240	2180	226
M372307R0432	108.9	110.4	0.082	0.02	0.01	0.112	1550	403	116
M372307R0432	126.9	128.4	0.093	0.032	0.01	0.135	1320	172	93
M372307R0432	128.4	129.9	0.094	0.025	0.014	0.133	1870	343	122
M372307R0432	125.4	126.9	0.1	0.017	0.01	0.127	1460	167	104
M372307R0432	96.9	98.4	0.105	0.028	0.01	0.143	863	25	74
M372307R0432	129.9	131.4	0.115	0.035	0.016	0.166	1960	501	123
M372307R0432	131.4	132.9	0.135	0.043	0.075	0.253	1690	584	116
M372307R0432	132.9	134.4	0.135	0.038	0.015	0.188	1830	479	120
M372307R0432	138.3	139.8	0.135	0.097	0.026	0.258	1220	981	90
M372307R0432	139.8	141.3	0.144	0.086	0.012	0.242	896	577	73
M372307R0432	122.4	123.9	0.16	0.037	0.018	0.215	1720	428	123

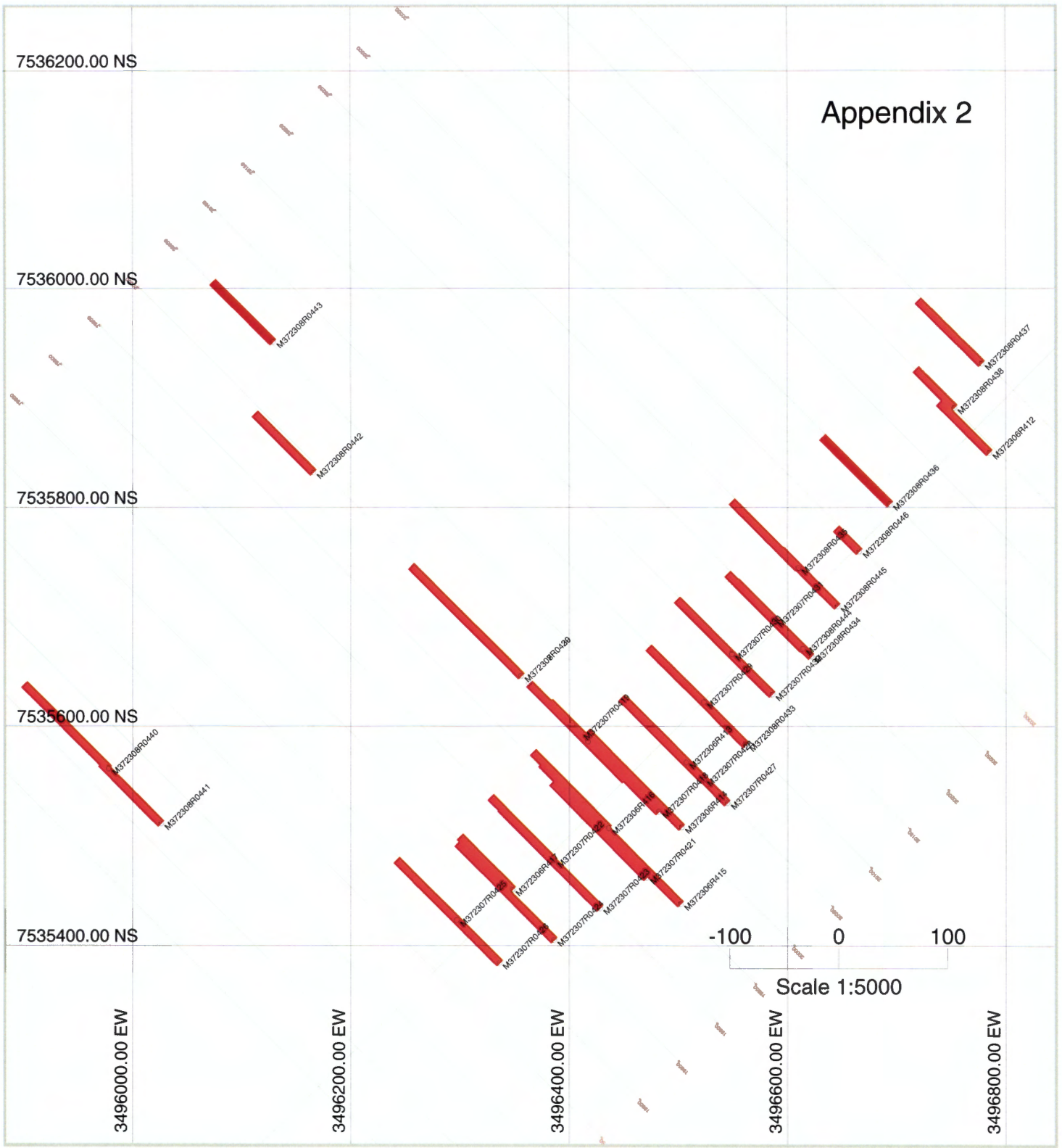
M372307R0432	98.4	99.9	0.173	0.08	0.015	0.268	1680	309	131
M372307R0432	134.4	135.9	0.185	0.047	0.172	0.404	1690	1010	126
M372307R0432	110.4	111.9	0.186	0.075	0.01	0.271	1670	340	126
M372307R0432	119.4	120.9	0.191	0.044	0.018	0.253	1210	223	99
M372307R0432	117.9	119.4	0.196	0.082	0.024	0.302	2020	629	151
M372307R0432	120.9	122.4	0.208	0.051	0.036	0.295	1440	207	111
M372307R0432	135.9	137.4	0.234	0.097	0.092	0.423	1890	1230	134
M372307R0432	99.9	101.4	0.287	0.12	0.01	0.417	1080	116	88
M372307R0432	107.4	108.9	0.306	0.109	0.013	0.428	1780	373	139
M372307R0432	116.4	117.9	0.306	0.118	0.049	0.473	2340	1060	168
M372307R0432	137.4	138.3	0.361	0.158	0.234	0.753	1670	979	311
M372307R0432	111.9	113.4	0.374	0.173	0.093	0.64	1970	510	150
M372307R0432	113.4	114.9	0.403	0.183	0.051	0.637	2120	605	160
M372307R0432	101.4	102.9	0.434	0.213	0.011	0.658	1390	291	111
M372307R0432	114.9	116.4	0.438	0.188	0.137	0.763	2420	1050	182
M372307R0432	104.4	105.9	0.452	0.204	0.034	0.69	1680	1270	139
M372307R0432	105.9	107.4	0.478	0.138	0.017	0.633	1420	1180	123
M372307R0432	102.9	104.4	0.557	0.18	0.902	1.639	1300	501	111
M372308R0433	118	119.5	0.082	0.034	0.051	0.167	2010	261	135
M372308R0433	136	137.5	0.087	0.046	0.109	0.242	1610	566	81
M372308R0433	121	122.5	0.09	0.04	0.021	0.151	1320	145	102
M372308R0433	95.5	97	0.094	0.051	0.013	0.158	1410	524	99
M372308R0433	124	125.5	0.094	0.047	0.012	0.153	1980	447	121
M372308R0433	37	38.5	0.101	0.116	0.06	0.277	1500	11	82
M372308R0433	131.5	133	0.102	0.046	0.03	0.178	1300	461	96
M372308R0433	101.5	103	0.113	0.062	0.01	0.185	1300	198	94
M372308R0433	116.5	118	0.117	0.041	0.01	0.168	1380	212	99
M372308R0433	134.5	136	0.12	0.079	0.06	0.259	1130	308	92
M372308R0433	104.5	106	0.122	0.079	0.013	0.214	1740	235	121
M372308R0433	125.5	127	0.125	0.056	0.034	0.215	2260	798	152
M372308R0433	107.5	109	0.138	0.069	0.011	0.218	1370	267	98
M372308R0433	139	140.5	0.17	0.104	0.029	0.303	871	447	88
M372308R0433	128.5	130	0.18	0.072	0.083	0.335	1950	957	145
M372308R0433	137.5	139	0.195	0.131	0.085	0.411	2100	660	118
M372308R0433	127	128.5	0.228	0.098	0.08	0.406	2150	859	143
M372308R0433	113.5	115	0.276	0.125	0.016	0.417	2150	421	155
M372308R0433	142	143.5	0.278	0.48	0.07	0.828	1220	1220	122
M372308R0433	110.5	112	0.288	0.112	0.02	0.42	1340	249	96
M372308R0433	100	101.5	0.293	0.14	0.01	0.443	1340	296	99
M372308R0433	140.5	142	0.342	0.15	0.149	0.641	1090	841	131
M372308R0433	103	104.5	0.363	0.175	0.107	0.645	1830	406	127
M372308R0433	98.5	100	0.457	0.215	0.043	0.715	1870	853	136
M372308R0433	112	113.5	0.475	0.187	0.188	0.85	1740	892	129
M372308R0433	97	98.5	0.523	0.254	0.016	0.793	1620	357	114
M372308R0434	123.1	124.6	0.084	0.033	0.01	0.127	2070	522	145
M372308R0434	130.6	132.1	0.114	0.055	0.109	0.278	1710	408	113
M372308R0434	93.1	94.6	0.17	0.092	0.01	0.272	1260	200	93
M372308R0434	100.6	102.1	0.178	0.083	0.025	0.286	1240	198	93
M372308R0434	114.1	115.6	0.257	0.082	0.063	0.402	1850	745	129
M372308R0434	133.6	135.1	0.268	0.132	0.044	0.444	881	744	80
M372308R0434	102.1	103.6	0.274	0.126	0.047	0.447	1570	716	114
M372308R0434	94.6	96.1	0.275	0.158	0.01	0.443	1300	220	95

M372308R0434	112.6	114.1	0.279	0.097	0.092	0.468	1750	298	120
M372308R0434	115.6	117.1	0.315	0.111	0.013	0.439	2250	688	146
M372308R0434	96.1	97.6	0.318	0.162	0.054	0.534	1170	178	88
M372308R0434	108.1	109.6	0.322	0.131	0.068	0.521	2020	762	139
M372308R0434	109.6	111.1	0.329	0.136	0.147	0.612	2000	1060	140
M372308R0434	111.1	112.6	0.334	0.138	0.086	0.558	2260	414	148
M372308R0434	99.1	100.6	0.341	0.153	0.062	0.556	1310	138	102
M372308R0434	103.6	105.1	0.376	0.172	0.091	0.639	2200	826	157
M372308R0434	97.6	99.1	0.416	0.192	0.192	0.8	1610	354	118
M372308R0434	132.1	133.6	0.419	0.168	0.079	0.666	1680	681	131
M372308R0434	106.6	108.1	0.502	0.207	0.029	0.738	2560	1070	174
M372308R0434	105.1	106.6	0.568	0.267	0.015	0.85	2450	935	178
M372308R0435	56.95	58.85	0.15	0.084	0.033	0.267	2580	1210	159
M372308R0435	61.05	62.65	0.154	0.045	0.027	0.226	2040	4240	86
M372308R0435	58.85	61.05	0.195	0.085	0.379	0.659	2180	817	136
M372308R0436	85.7	87.2	0.141	0.091	0.039	0.271	2430	835	165
M372308R0436	93.2	94.7	0.16	0.08	0.344	0.584	826	260	173
M372308R0436	94.7	95.7	0.178	0.076	0.01	0.264	822	266	72
M372308R0436	90.2	91.7	0.216	0.098	0.19	0.504	807	174	81
M372308R0436	88.7	90.2	0.262	0.121	0.126	0.509	905	209	72
M372308R0436	87.2	88.7	0.352	0.142	0.179	0.673	1840	622	124
M372308R0436	91.7	93.2	0.386	0.171	0.058	0.615	1750	605	124
M372308R0437	84.05	85.55	0.136	0.044	0.01	0.19	1220	259	69
M372308R0437	82.55	84.05	0.145	0.064	0.026	0.235	1940	611	107
M372308R0437	94.55	96.5	0.173	0.07	0.019	0.262	3050	1040	127
M372308R0437	93.05	94.55	0.546	0.231	0.644	1.421	7320	8650	443
M372308R0438	26.25	27.8	0.094	0.026	0.013	0.133	845	24	51
M372308R0440	27.35	28.85	0.133	0.028	0.014	0.175	145	1030	51
M372308R0441	75	76.5	0.115	0.083	0.045	0.243	39	35	10
M372308R0441	76.5	78	0.138	0.01	0.01	0.158	65	64	17
M372308R0442	54	55.5	0.086	0.01	0.01	0.106	46	50	18
M372308R0442	53	54	0.093	0.082	0.018	0.193	90	263	42
M372308R0444	154.15	155.65	0.083	0.05	0.064	0.197	930	304	65
M372308R0444	143.65	145.15	0.089	0.032	0.012	0.133	1410	155	86
M372308R0444	140.65	142.15	0.117	0.055	0.051	0.223	1160	190	83
M372308R0444	151.15	152.65	0.122	0.064	0.05	0.236	1720	406	108
M372308R0444	121.15	122.65	0.142	0.075	0.01	0.227	991	86	74
M372308R0444	145.15	146.65	0.145	0.063	0.01	0.218	1440	483	89
M372308R0444	139.15	140.65	0.182	0.105	0.063	0.35	1700	421	107
M372308R0444	148.15	149.65	0.19	0.088	0.01	0.288	1710	660	103
M372308R0444	134.65	136.15	0.256	0.125	0.054	0.435	1770	202	120
M372308R0444	149.65	151.15	0.261	0.118	0.024	0.403	2680	807	156
M372308R0444	128.65	130.15	0.408	0.193	0.023	0.624	1710	575	127
M372308R0444	122.65	124.15	0.412	0.229	0.01	0.651	1470	378	112
M372308R0444	155.65	157.15	0.423	0.205	0.091	0.719	1470	608	106
M372308R0444	127.15	128.65	0.446	0.216	0.048	0.71	1780	1110	140
M372308R0444	131.65	133.15	0.448	0.202	0.033	0.683	2220	446	151
M372308R0444	136.15	137.65	0.499	0.202	0.09	0.791	1460	135	93
M372308R0444	133.15	134.65	0.521	0.248	0.025	0.794	2320	816	157
M372308R0444	124.15	125.65	0.546	0.301	0.021	0.868	1870	720	143
M372308R0444	125.65	127.15	0.548	0.27	0.023	0.841	1610	539	128
M372308R0444	130.15	131.65	0.618	0.255	0.175	1.048	2150	673	149

M372308R0445	131.7	133.2	0.081	0.039	0.011	0.131	1040	172	84
M372308R0445	133.2	134.7	0.118	0.057	0.025	0.2	1010	33	82
M372308R0445	160.2	161.7	0.126	0.057	0.05	0.233	1600	480	83
M372308R0445	155.7	157.2	0.14	0.068	0.046	0.254	2030	405	75
M372308R0445	154.2	155.7	0.151	0.075	0.105	0.331	1710	474	93
M372308R0445	149.7	151.2	0.199	0.088	0.023	0.31	2050	620	101
M372308R0445	163.2	164.7	0.208	0.107	0.01	0.325	1070	367	82
M372308R0445	151.2	152.7	0.222	0.104	0.09	0.416	2070	587	103
M372308R0445	137.7	139.2	0.23	0.113	0.023	0.366	1320	324	102
M372308R0445	134.7	136.2	0.235	0.117	0.01	0.362	866	62	76
M372308R0445	148.2	149.7	0.256	0.127	0.021	0.404	2200	767	112
M372308R0445	161.7	163.2	0.295	0.104	0.057	0.456	1260	429	89
M372308R0445	152.7	154.2	0.3	0.136	0.169	0.605	2230	662	108
M372308R0445	142.2	143.7	0.315	0.149	0.01	0.474	1840	323	127
M372308R0445	140.7	142.2	0.333	0.156	0.014	0.503	1770	279	122
M372308R0445	145.2	146.7	0.334	0.138	0.052	0.524	2010	520	112
M372308R0445	146.7	148.2	0.341	0.14	0.035	0.516	2500	1020	126
M372308R0445	139.2	140.7	0.381	0.193	0.013	0.587	1890	812	138
M372308R0445	136.2	137.7	0.405	0.204	0.03	0.639	1540	436	124
M372308R0446	39.3	40.8	0.104	0.028	0.01	0.142	822	29	57
M372308R0446	101.6	103.1	0.135	0.068	0.034	0.237	659	198	48
M372308R0446	37.8	39.3	0.155	0.067	0.01	0.232	838	3	64

HOLE-ID	FROM	TO	LENGTH	PT	PD	AU	NI	CU	CO
M372306R412	82.3	83.4	1.1	0.09	0.01	0.01	716	33	40
M372306R413	46.6	78.6	32.5	0.42	0.19	0.08	2240.13	849.56	151
M372306R413	100.75	103.9	3.15	0.2	0.14	0.03	1246.83	553.65	86
M372306R414	64.9	66.9	2	0.1	0.03	0.01	765	28	53
M372306R414	134	148.35	14.35	0.24	0.13	0.05	1313.41	173.75	85
M372306R415	93.55	95	1.45	0.08	0.07	0.19	1110	2	70
M372306R415	251	254	3	0.23	0.12	0.01	874	404	66
M372306R416	39.9	91.8	52.4	0.33	0.14	0.05	1792.04	523.98	117
M372306R417	77.7	79.7	2	0.35	0.2	0.01	1740	426	114
M372307R0418	58.7	117.2	59.5	0.37	0.18	0.21	1743.74	405.92	113
M372307R0419	6.8	30.3	23.5	0.28	0.13	0.01	1132.56	560.2	79
M372307R0419	63.3	121.8	58.8	0.21	0.1	0.08	1299.87	323.28	82
M372307R0420	245.2	248.2	3	0.34	0.15	0.01	856.5	128.5	66
M372307R0421	138	139.5	1.5	0.17	0.22	0.01	2290	272	99
M372307R0422	29.65	34.15	4.5	0.17	0.07	0.07	412.67	499.67	62
M372307R0422	43.15	47.65	4.5	0.09	0.06	0.01	1333.33	331.33	95
M372307R0422	80.65	82.15	1.5	0.19	0.12	0.02	1270	803	105
M372307R0423	32.3	33.8	1.5	0.09	0.05	0.01	958	6	67
M372307R0423	116.3	117.8	1.5	0.13	0.05	0.01	552	427	73
M372307R0423	180.4	187.9	7.5	0.06	0.03	0.01	409	149	53
M372307R0424	79.2	85.2	6	0.11	0.05	0.02	1018.5	147.5	71
M372307R0424	163.2	164.7	1.5	0.22	0.07	0.02	2060	2430	228
M372307R0425	8.3	9.8	1.5	0.09	0.01	0.01	801	49	62
M372307R0425	39.8	42.7	2.9	0.12	0.06	0.02	747.21	166.07	86
M372307R0425	72.75	74.25	1.5	0.25	0.16	0.07	639	37	32
M372307R0425	80.3	82.25	1.95	0.21	0.08	0.01	625	269	61
M372307R0427	28.1	29.6	1.5	0.09	0.12	3.4	1180	4000	112
M372307R0427	133.1	161.5	28.9	0.31	0.15	0.04	1567.48	344.06	108
M372307R0428	118.5	120	1.5	0.11	0.06	0.02	1020	26	74
M372307R0428	127.55	158.8	31.25	0.27	0.13	0.06	1560.99	373.75	109
M372307R0429	12	51	39.45	0.31	0.13	0.08	1865.67	753.72	132
M372307R0429	71.5	73	1.5	0.14	0.05	0.02	1410	647	104
M372307R0430	41.1	69	27.9	0.33	0.13	0.1	2278.17	1278.17	153
M372307R0431	58.1	82.1	24.5	0.39	0.15	0.11	2602.92	1368.46	174
M372307R0432	96.9	141.3	44.4	0.24	0.09	0.07	1614.9	555.42	125
M372308R0433	37	38.5	1.5	0.1	0.12	0.06	1500	11	82
M372308R0433	95.5	143.5	48.4	0.18	0.1	0.05	1529.11	460.32	112
M372308R0434	93.1	117.1	24	0.33	0.14	0.06	1800	550.13	127
M372308R0434	123.1	124.6	1.5	0.08	0.03	0.01	2070	522	145
M372308R0434	130.6	135.1	4.5	0.27	0.12	0.08	1423.67	611	108
M372308R0435	56.95	62.65	5.7	0.17	0.07	0.16	2274.04	1908.84	130
M372308R0436	85.7	95.7	10	0.25	0.11	0.14	1365.9	432.35	118
M372308R0437	82.55	85.55	3	0.14	0.05	0.02	1580	435	88
M372308R0437	93.05	96.5	3.45	0.34	0.14	0.29	4906.52	4348.7	264

M372308R0438	26.25	27.8	1.55	0.09	0.03	0.01	845	24	51
M372308R0440	27.35	28.85	1.5	0.13	0.03	0.01	145	1030	51
M372308R0441	75	78	3	0.13	0.05	0.03	52	49.5	14
M372308R0442	53	55.5	2.5	0.09	0.04	0.01	63.6	135.2	28
M372308R0444	121.15	157.15	36	0.28	0.14	0.04	1610.46	452.04	110
M372308R0445	131.7	164.7	33	0.22	0.1	0.05	1631.64	433.41	97
M372308R0446	37.8	40.8	3	0.13	0.05	0.01	830	16	61
M372308R0446	101.6	103.1	1.5	0.14	0.07	0.03	659	198	48



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Drill Hole Locations and Vertical Sections

Planview Projection

EK GTK

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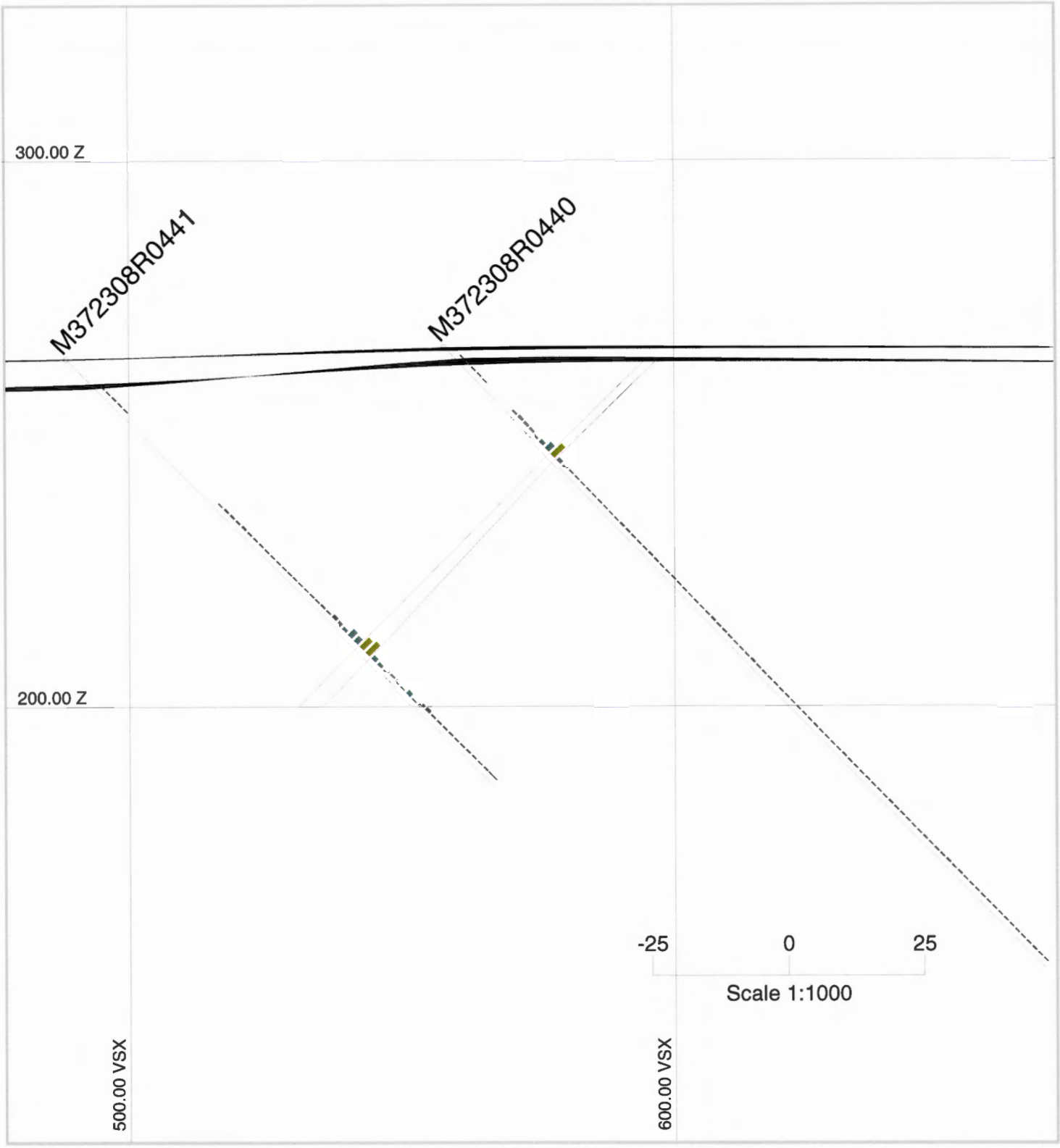
Appendix 3.1. Vertical sections: drill holes, lithologies, Pt distributions

Appendix 3.2. Vertical sections: drill holes, Pt composites, Pt blocks



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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Vertical Section 19 650

EK GTK
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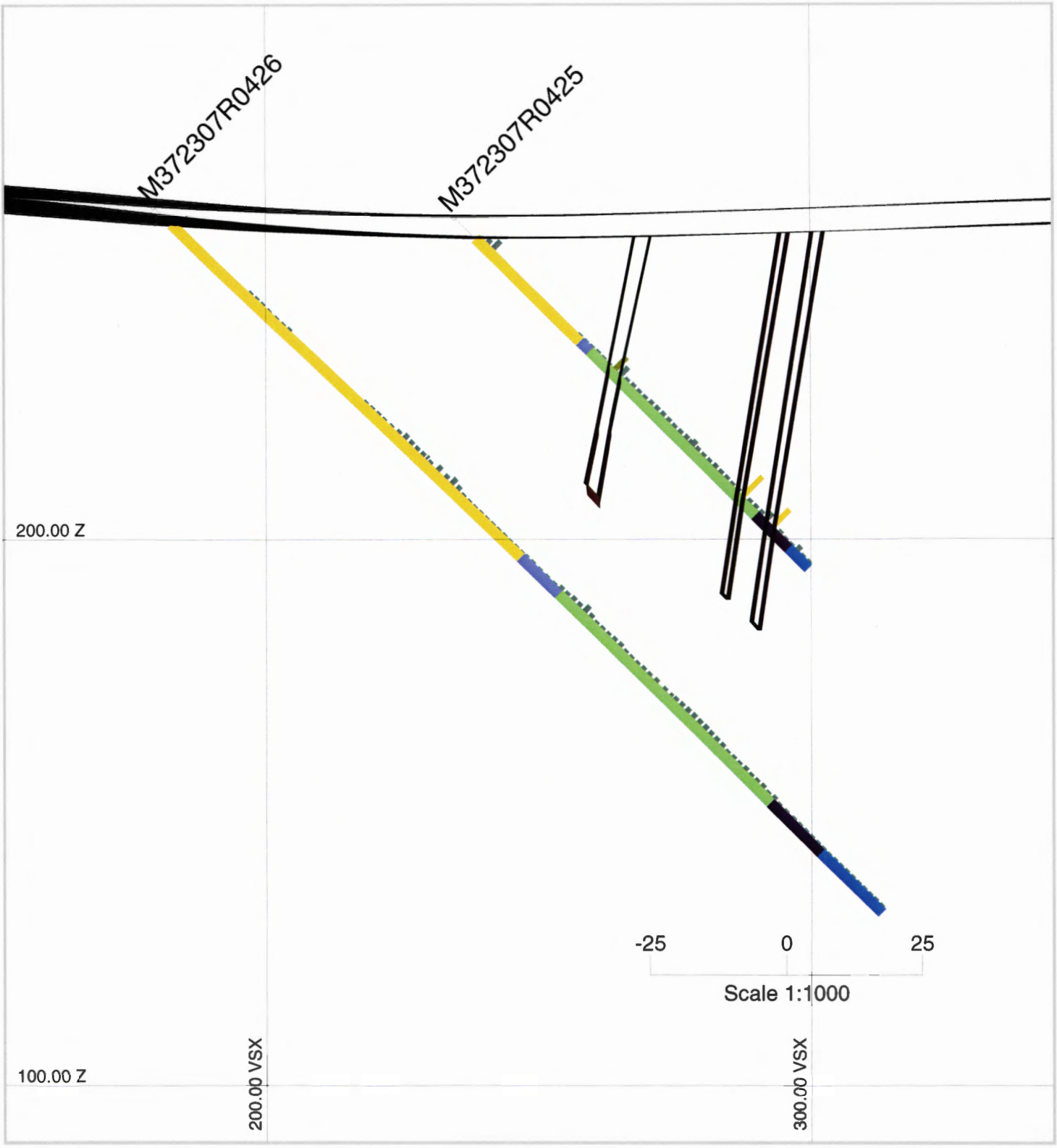


DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

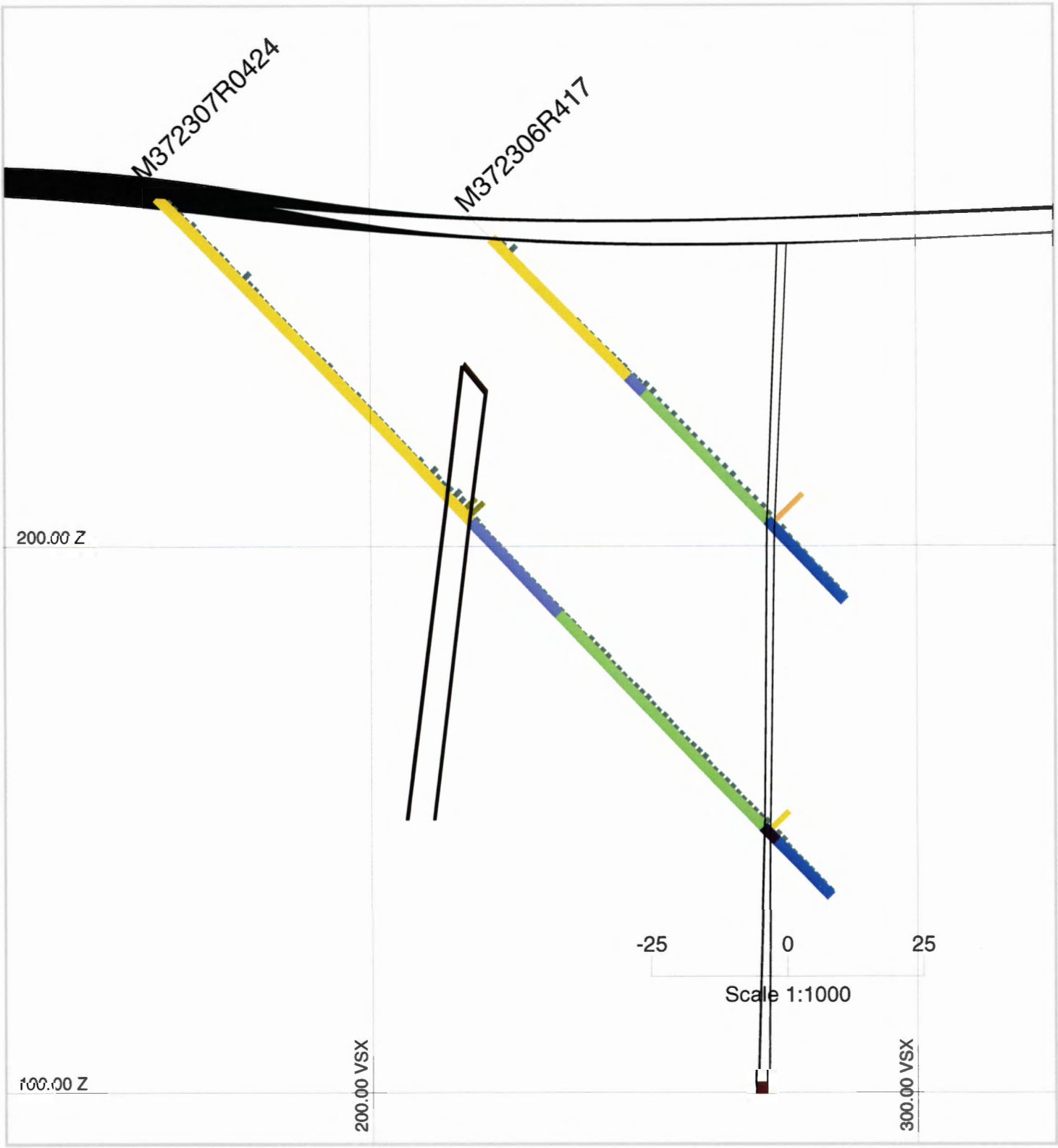
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 19 800

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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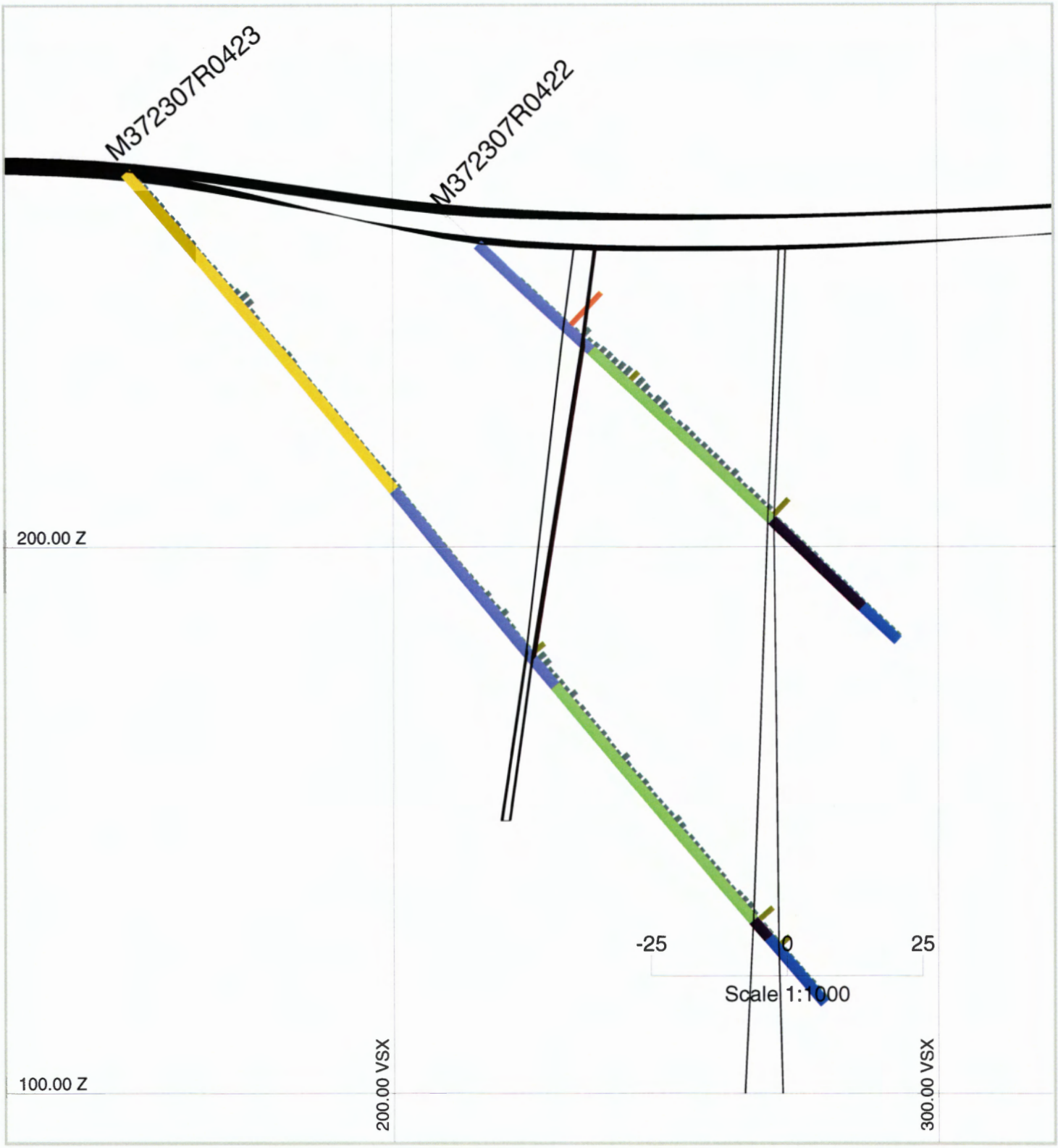
Vertical Section 19850

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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Vertical Section 19 900

EK GTK
29.10.2010

DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

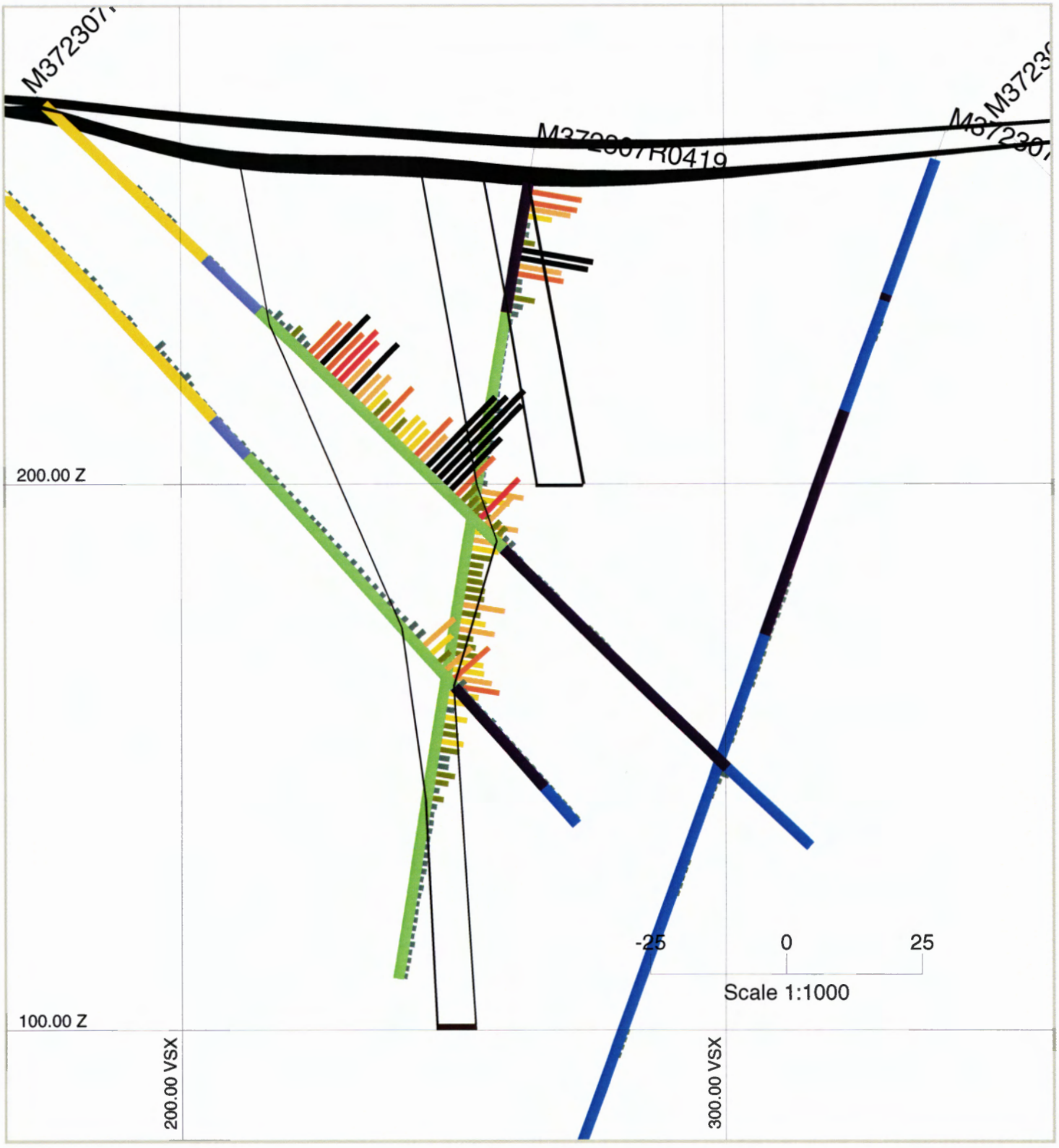
LOMALAMPI

Sodankylä

Vertical Section 19 950

EK GTK

29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

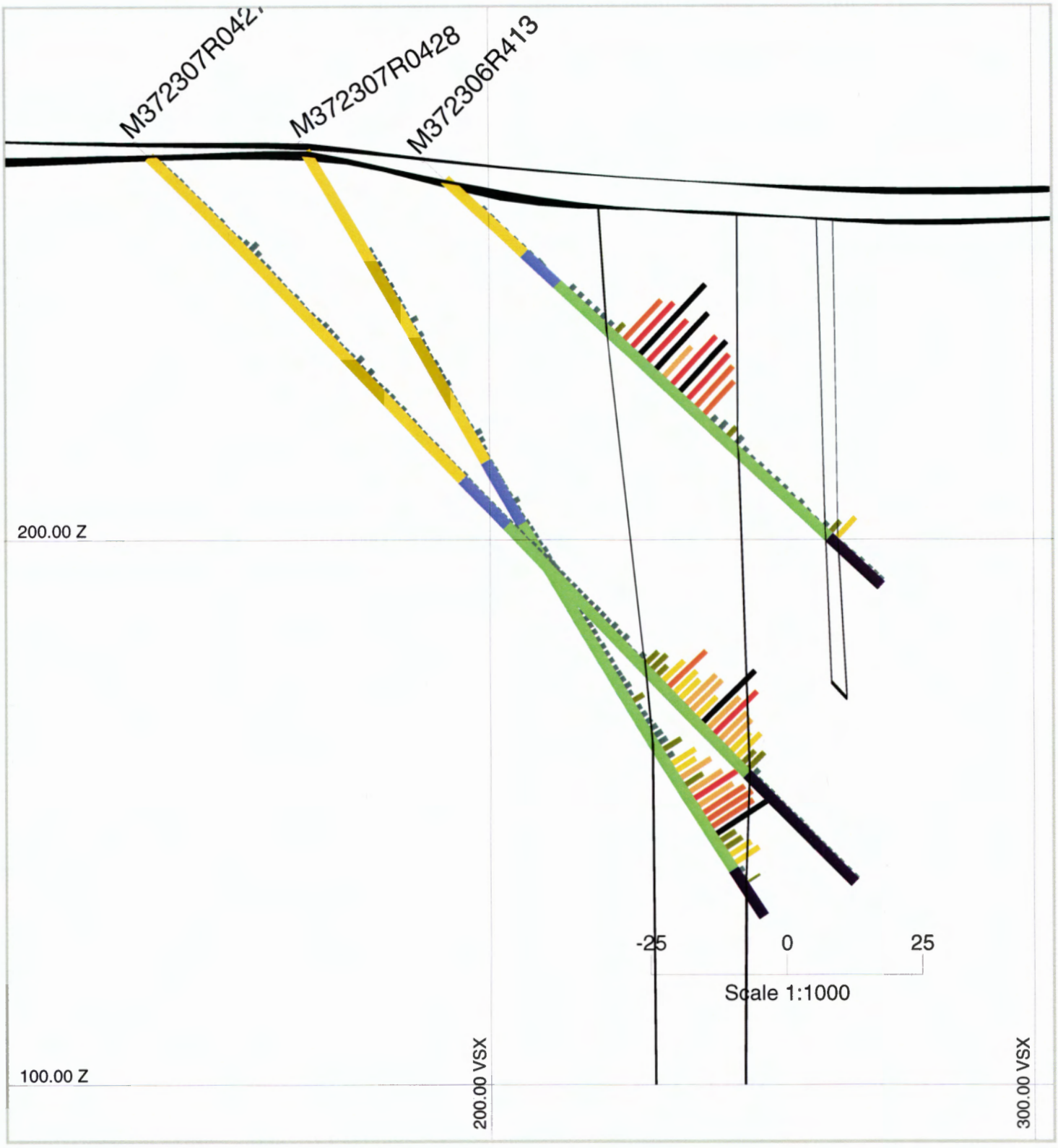
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 20 000

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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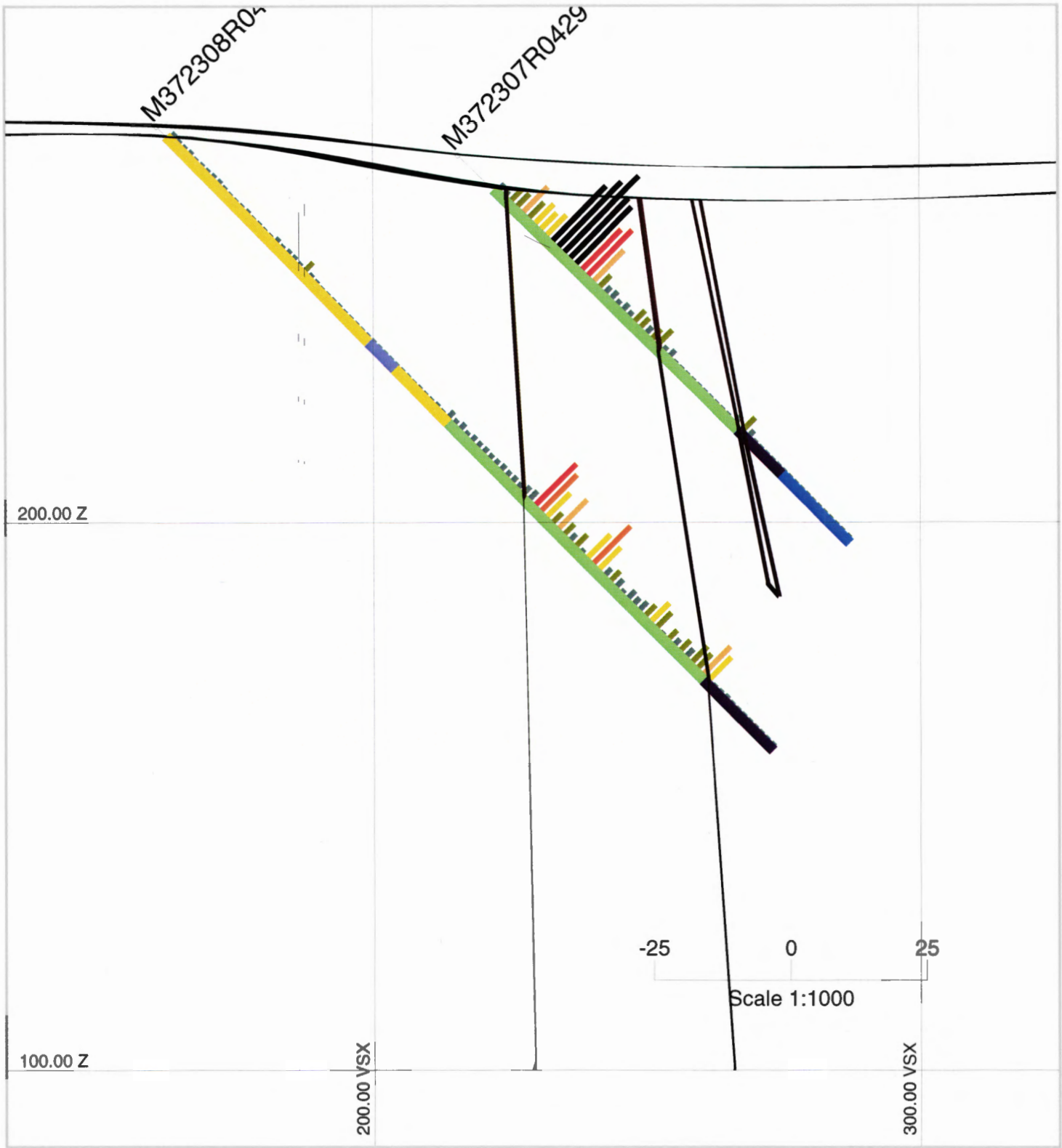
Vertical Section 20 050

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

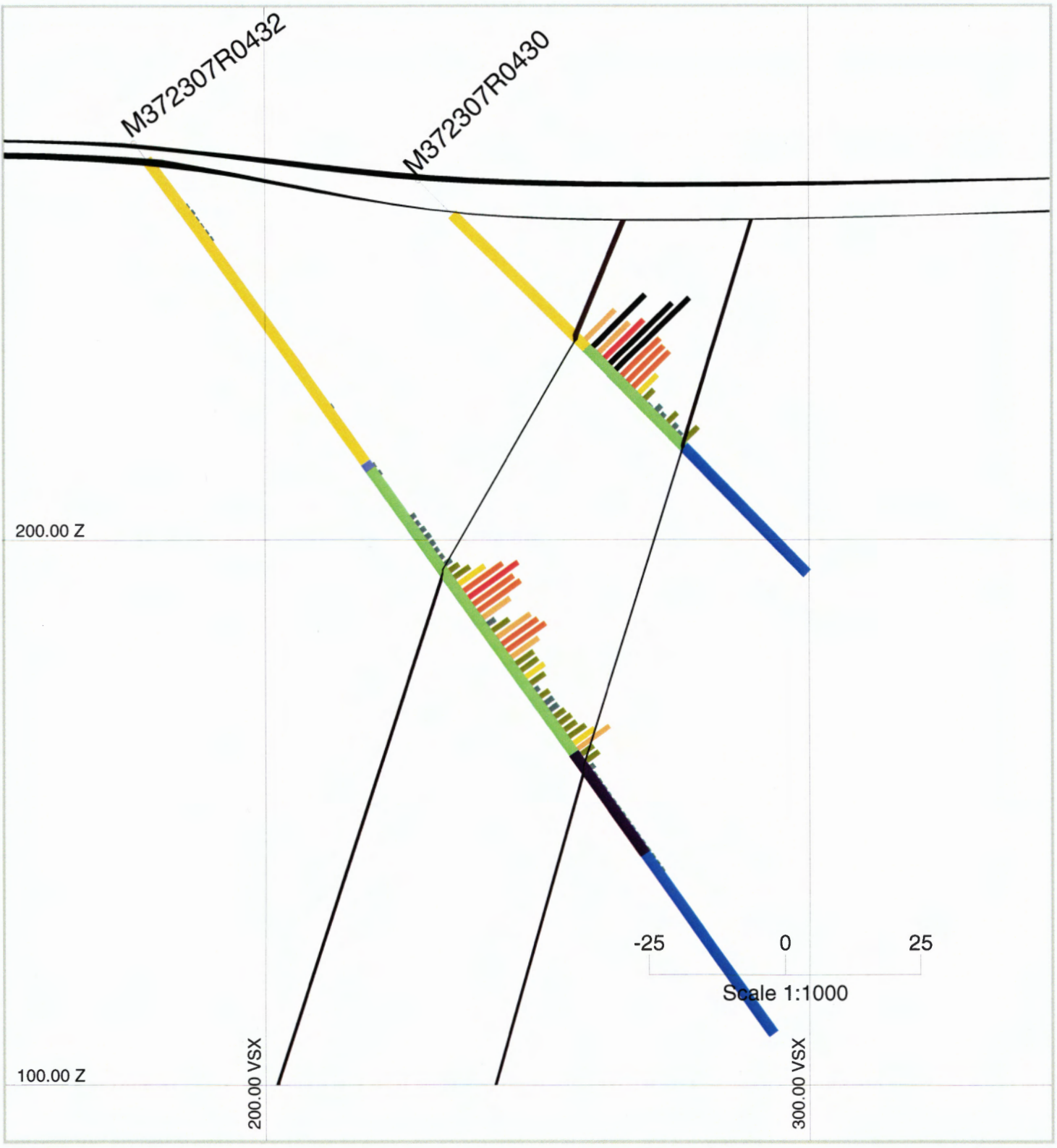
LOMALAMPI

Sodankylä

Vertical Section 20 100

EK GTK

29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

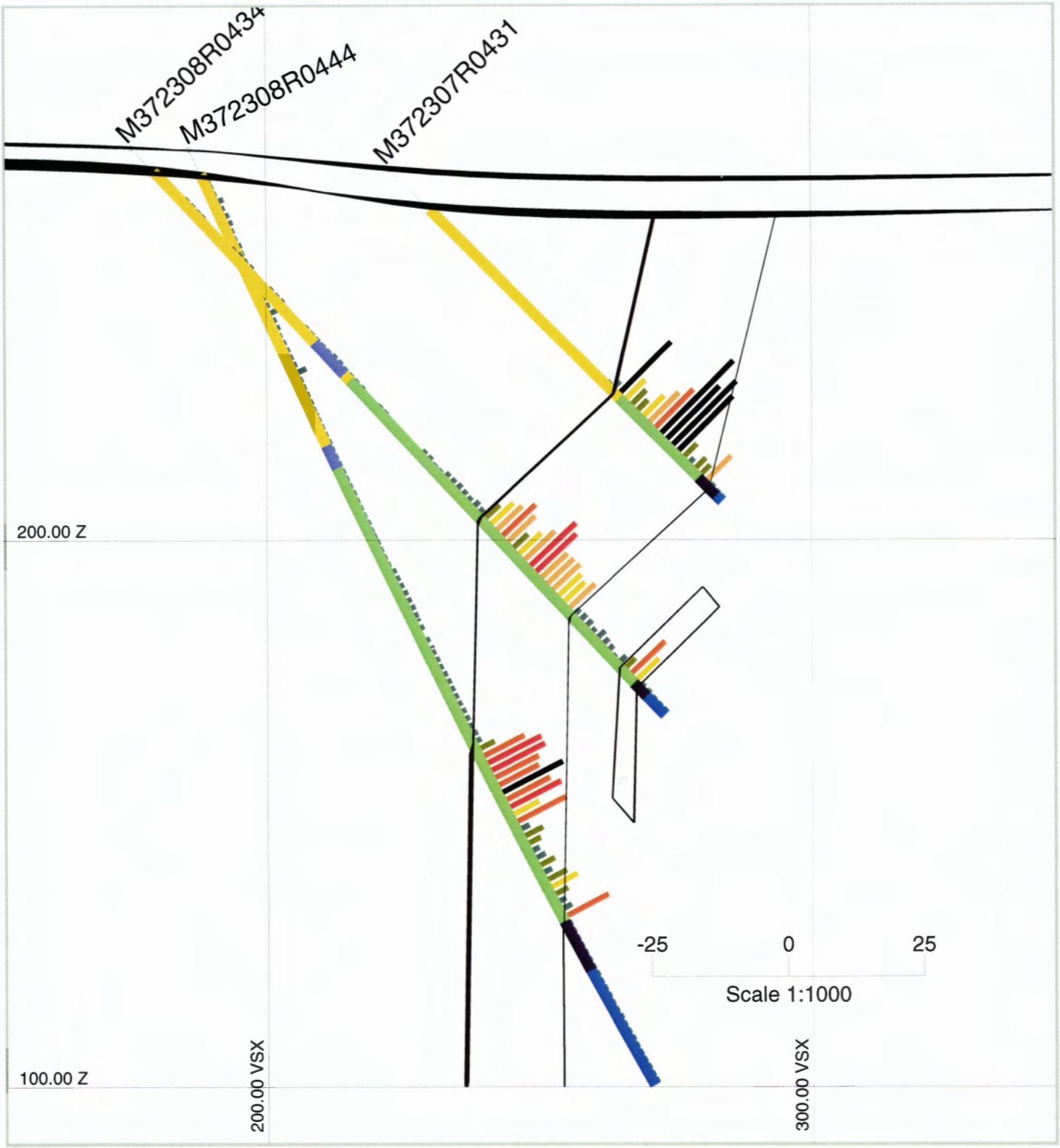
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 20 150

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

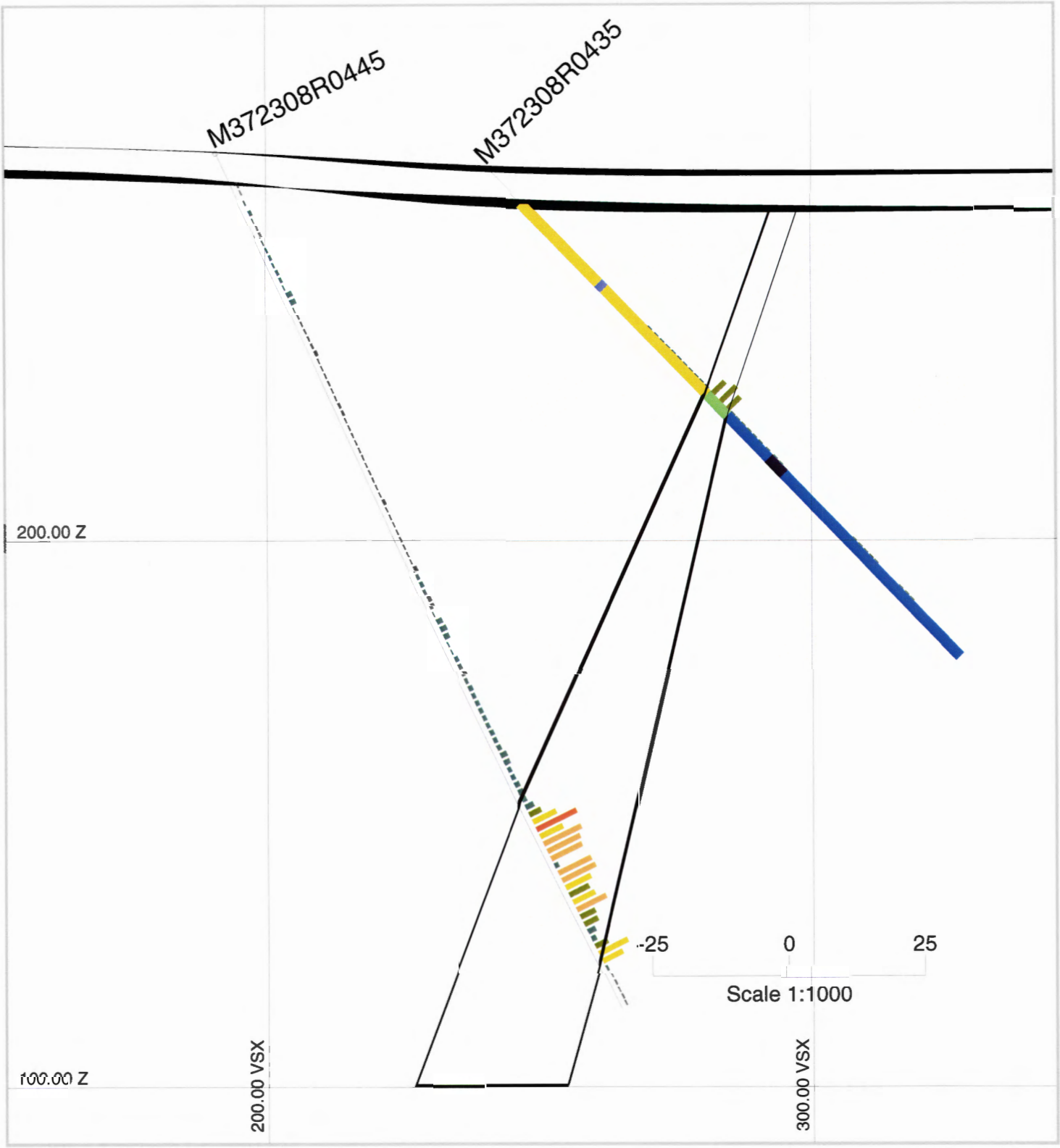
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 20 200

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

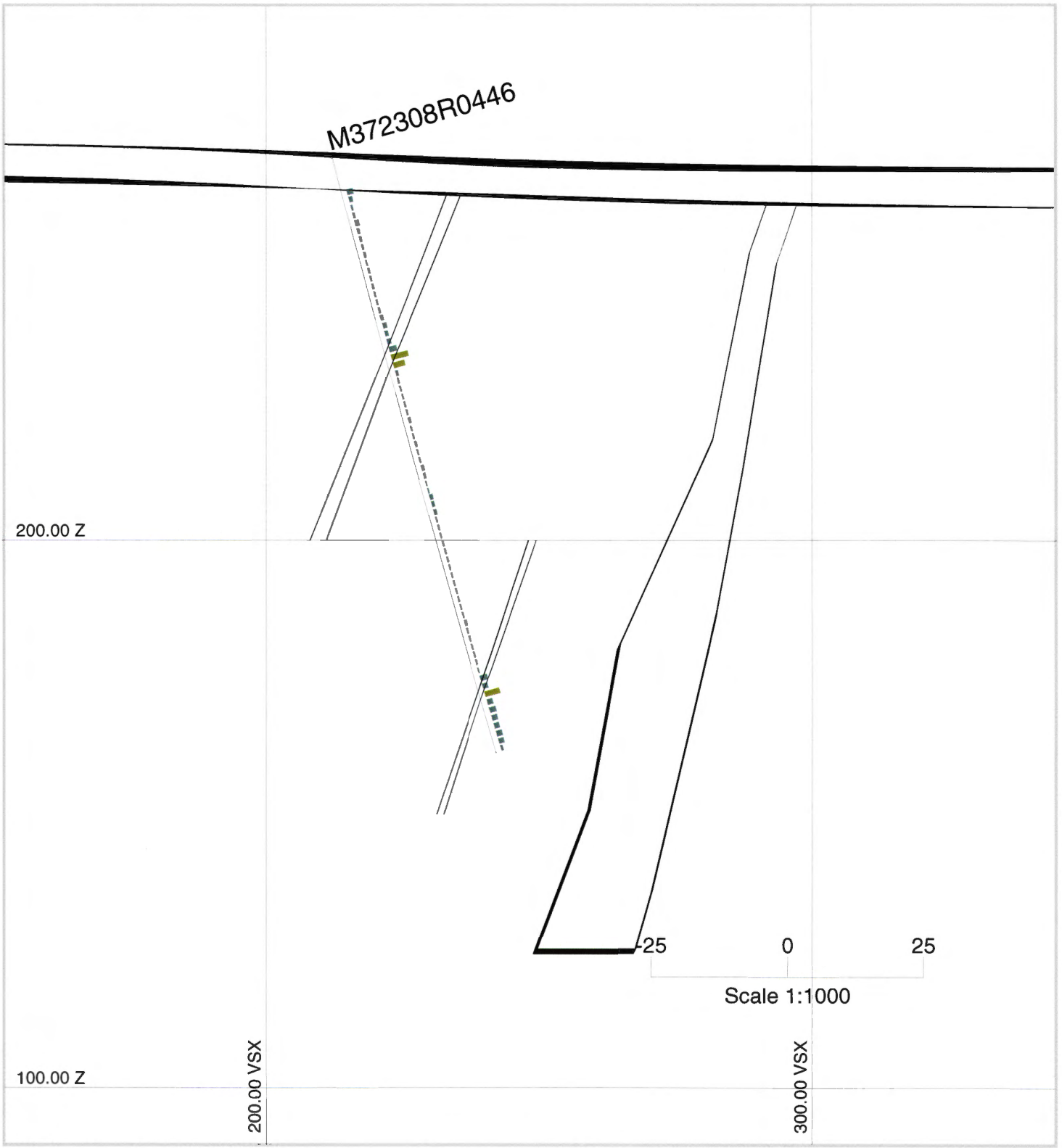
LOMALAMPI

Sodankylä

Vertical Section 20 250

EK GTK

29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

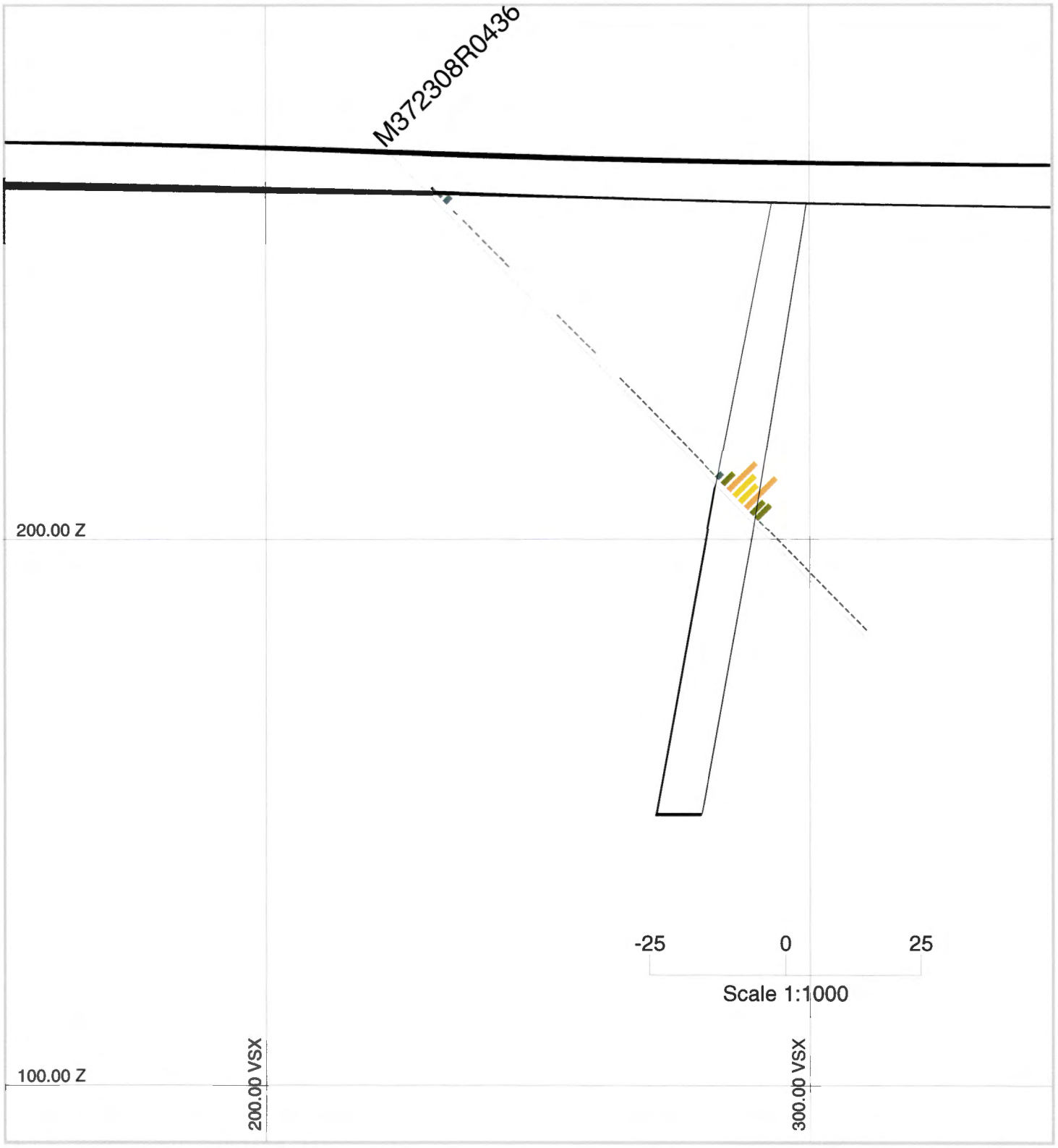
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 20 300

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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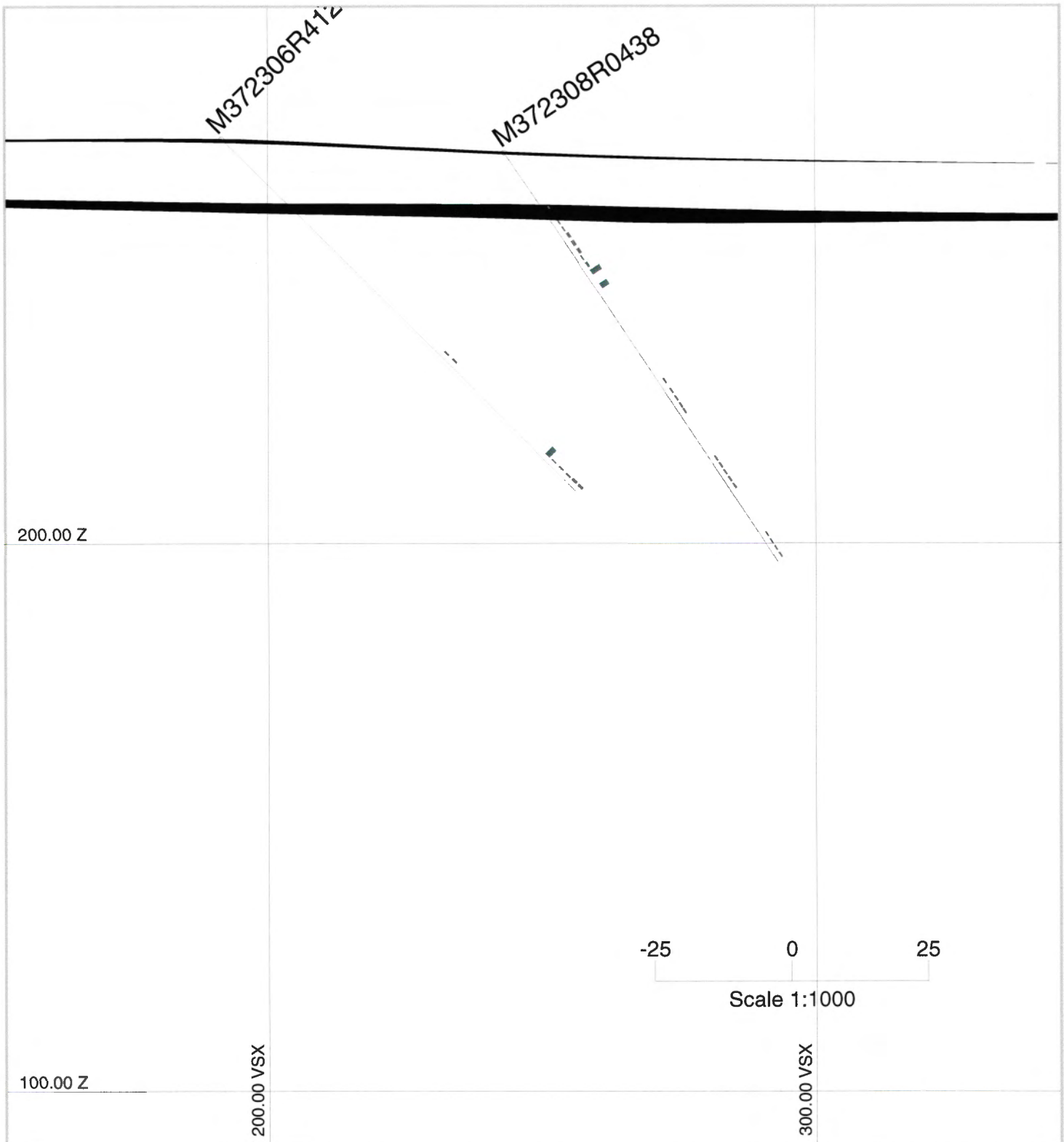
Vertical Section 20 350

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

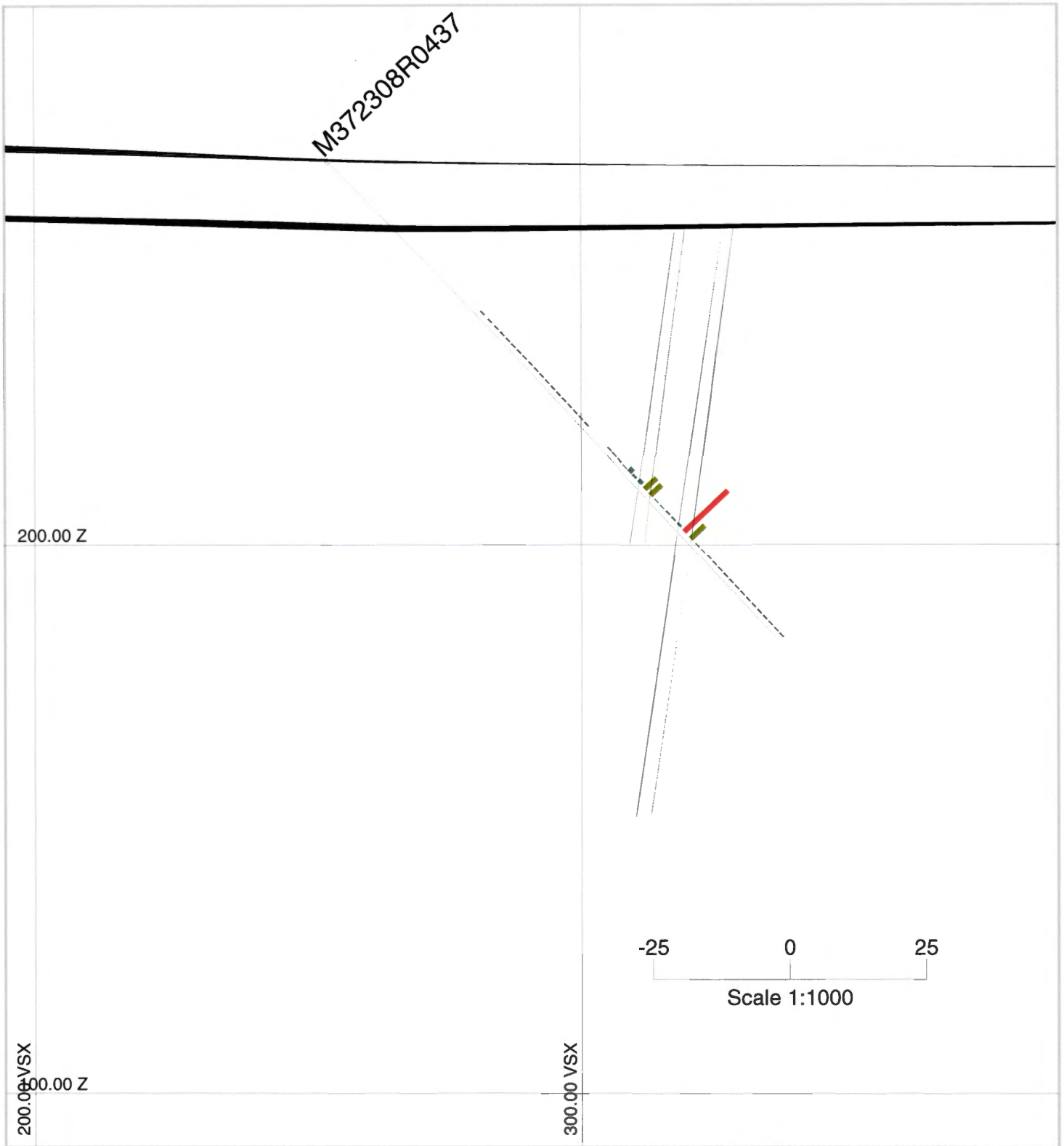
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Vertical Section 20 450

EK GTK
29.10.2010



DLITHO: Domains

- Overburden
- Hanging Rocks
- Hanging Black Schist
- Komatites
- Foot Black Schist
- Foot Rocks

PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

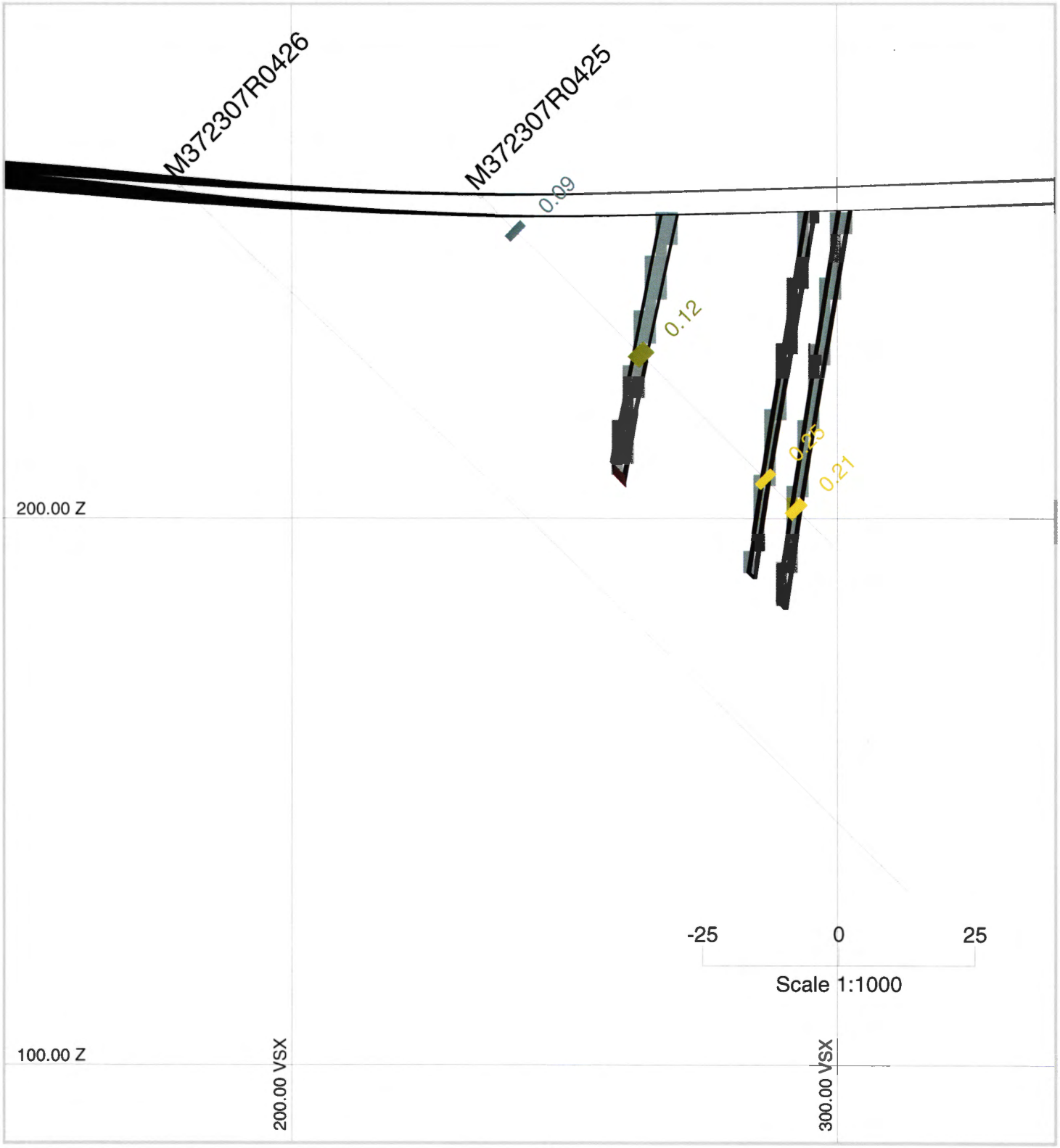
LOMALAMPI

Sodankylä

Vertical Section 20 500

EK GTK

29.10.2010



PT_PPM
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- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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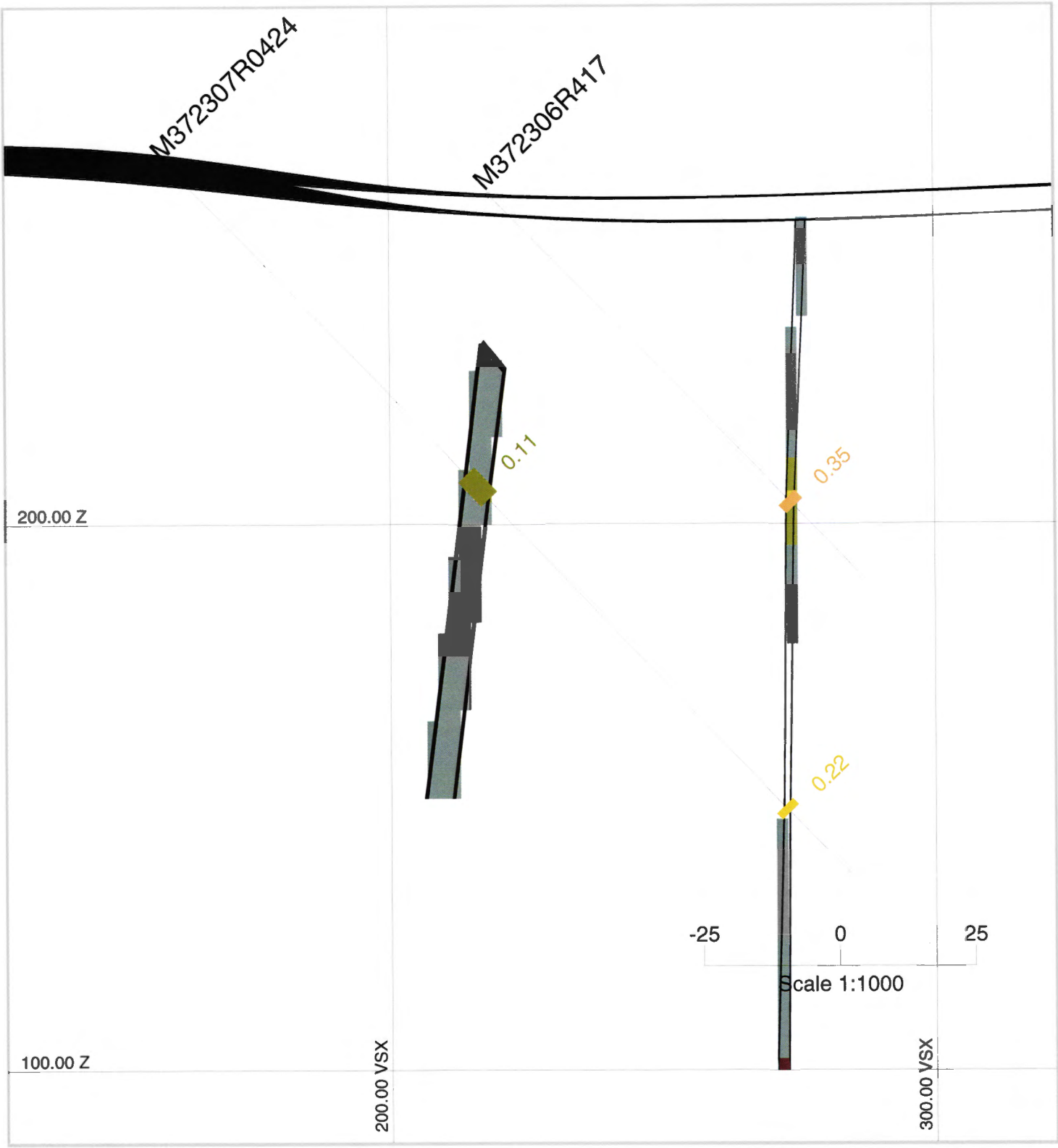
Pt: Composites and Block Model

Vertical Section 19 800

EK GTK

29.10.2010



PT_PPM
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- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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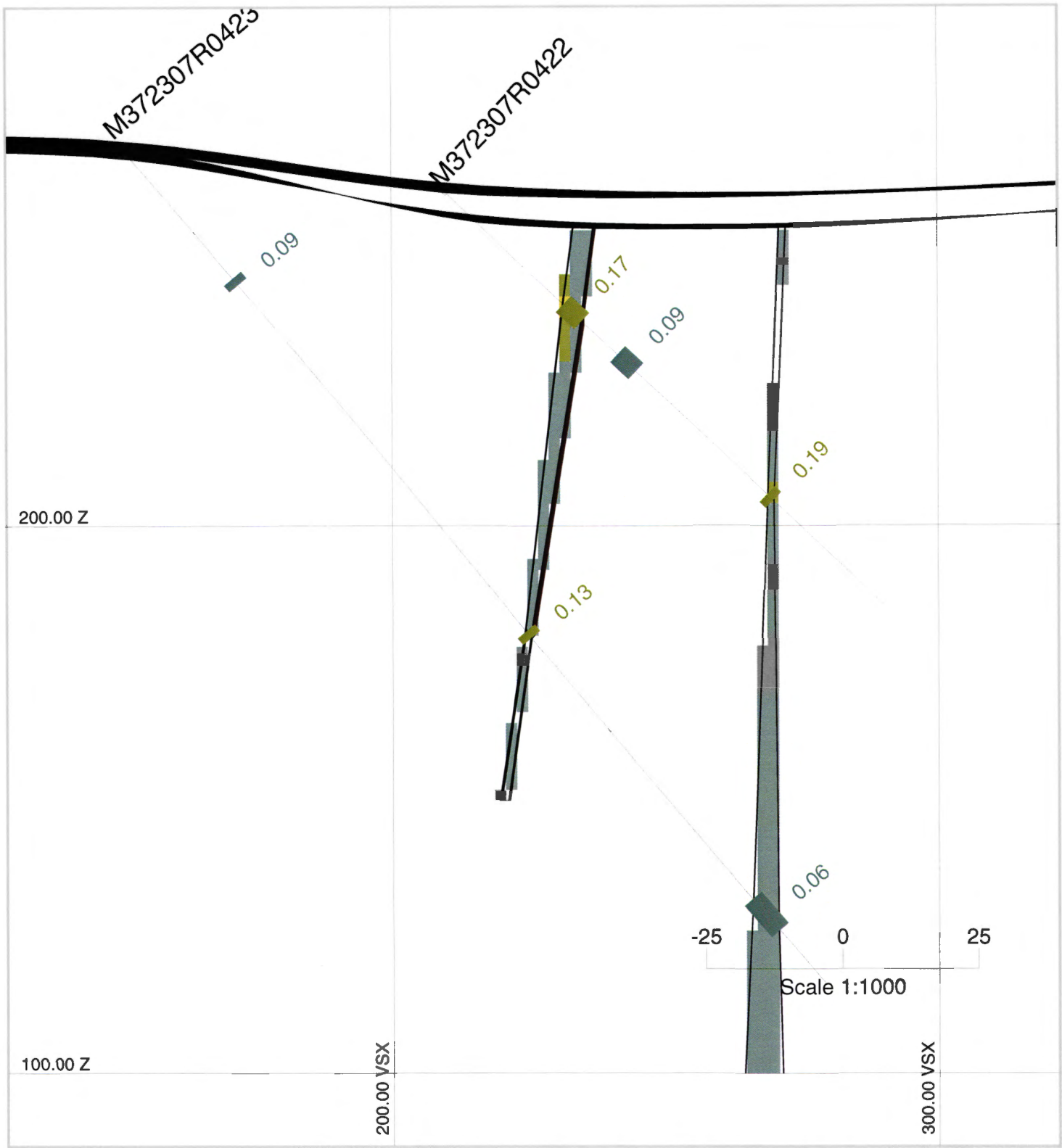
Pt: Composites and Block Model

Vertical Section 19 850

EK GTK

29.10.2010



PT_PPM
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- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

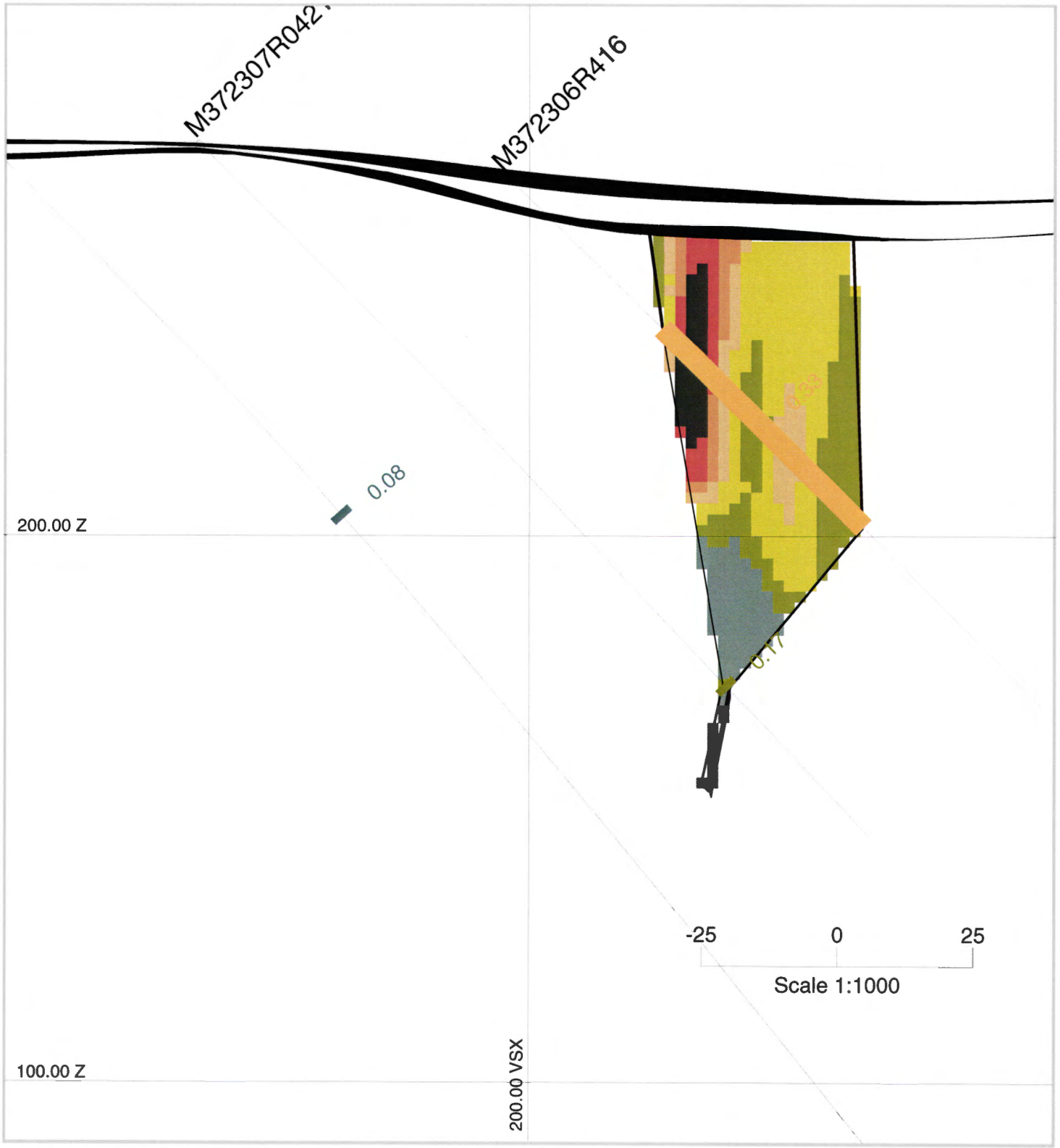
Sodankylä

Pt: Composites and Block Model

Vertical Section 19 900

EK GTK

29.10.2010



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- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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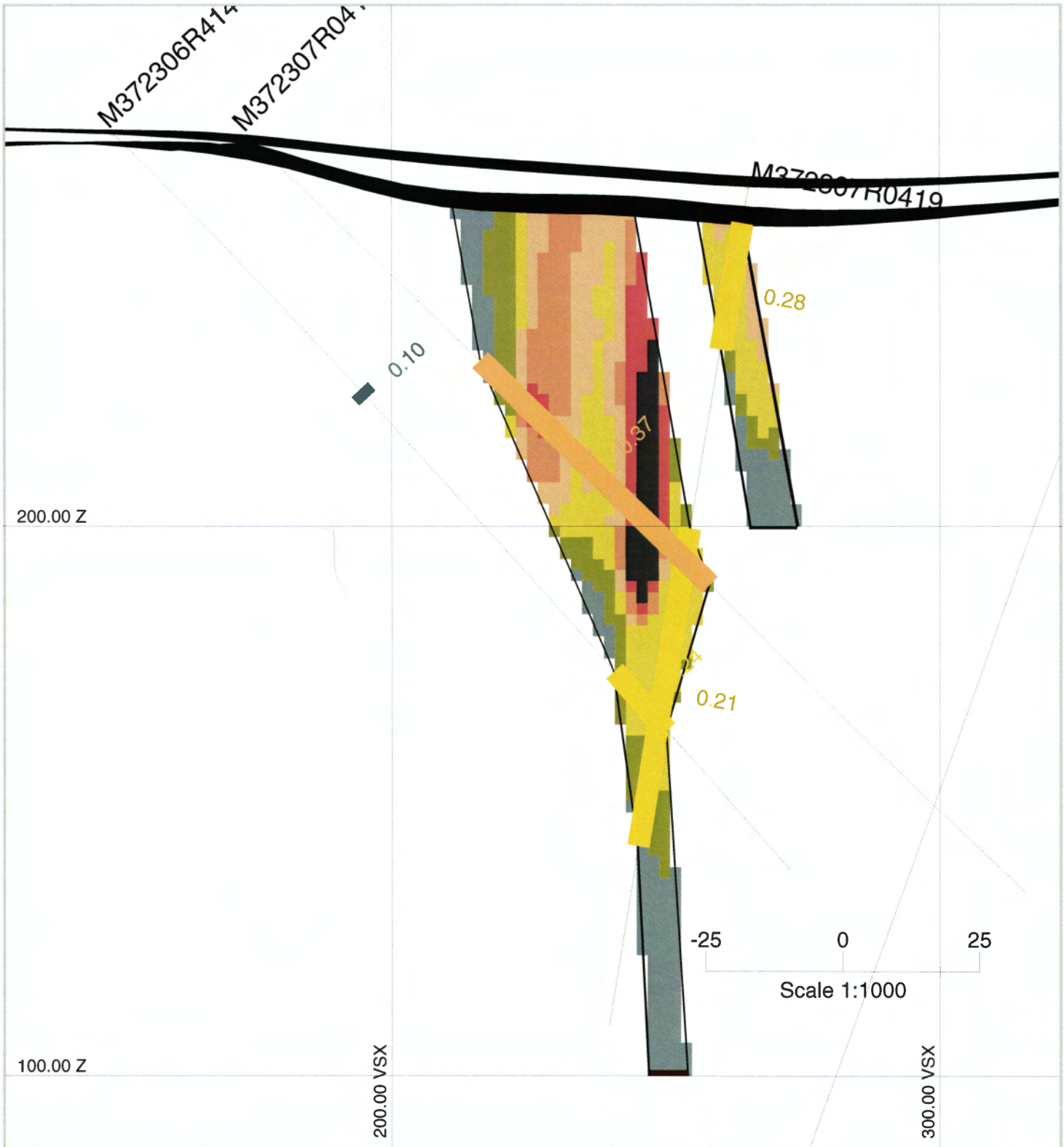
Pt: Composites and Block Model

Vertical Section 19 950

EK GTK

29.10.2010



PT_PPM

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- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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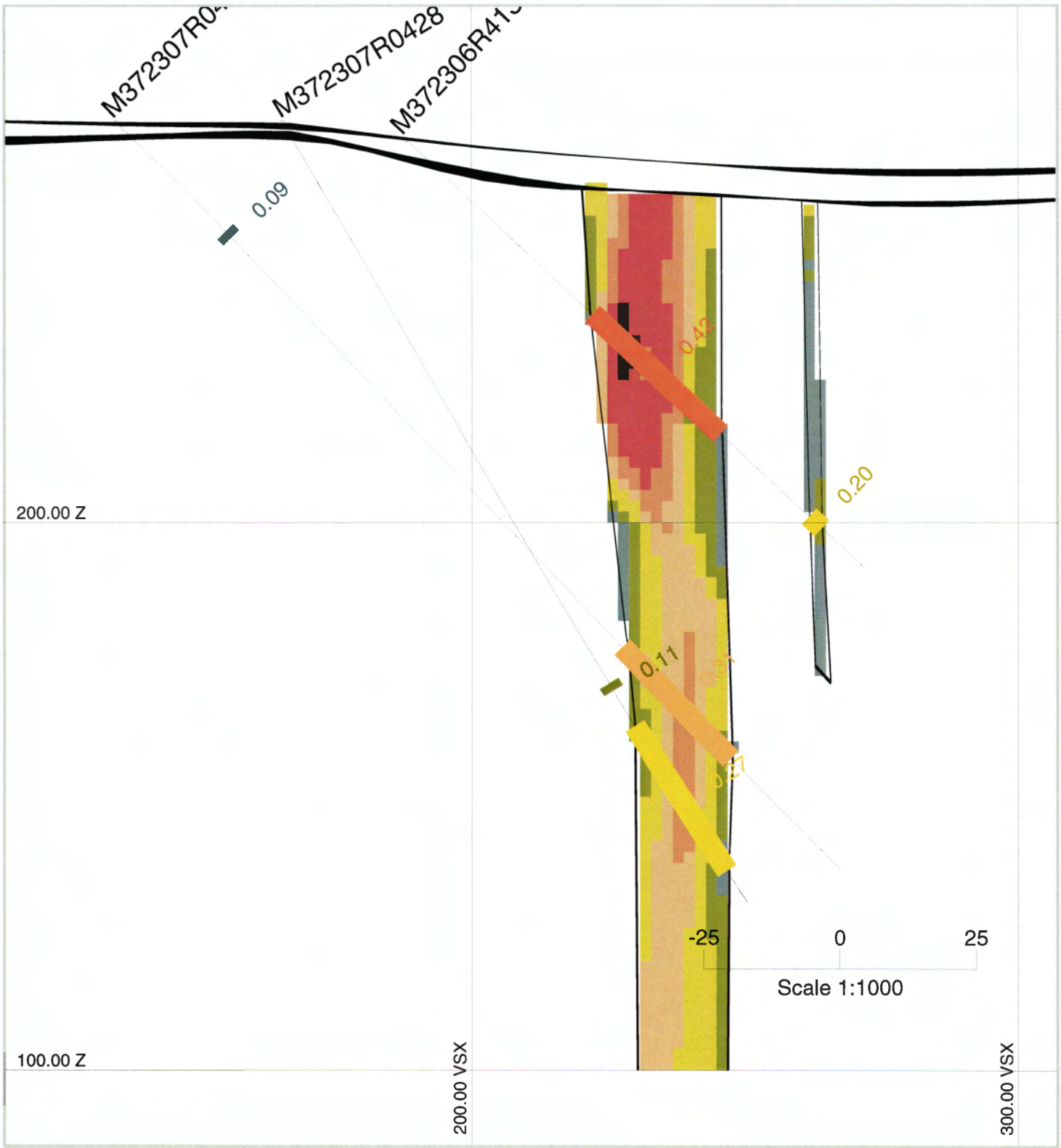
Pt: Composites and Block Model

Vertical Section 20 000

EK GTK

29.10.2010



PT_PPM
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- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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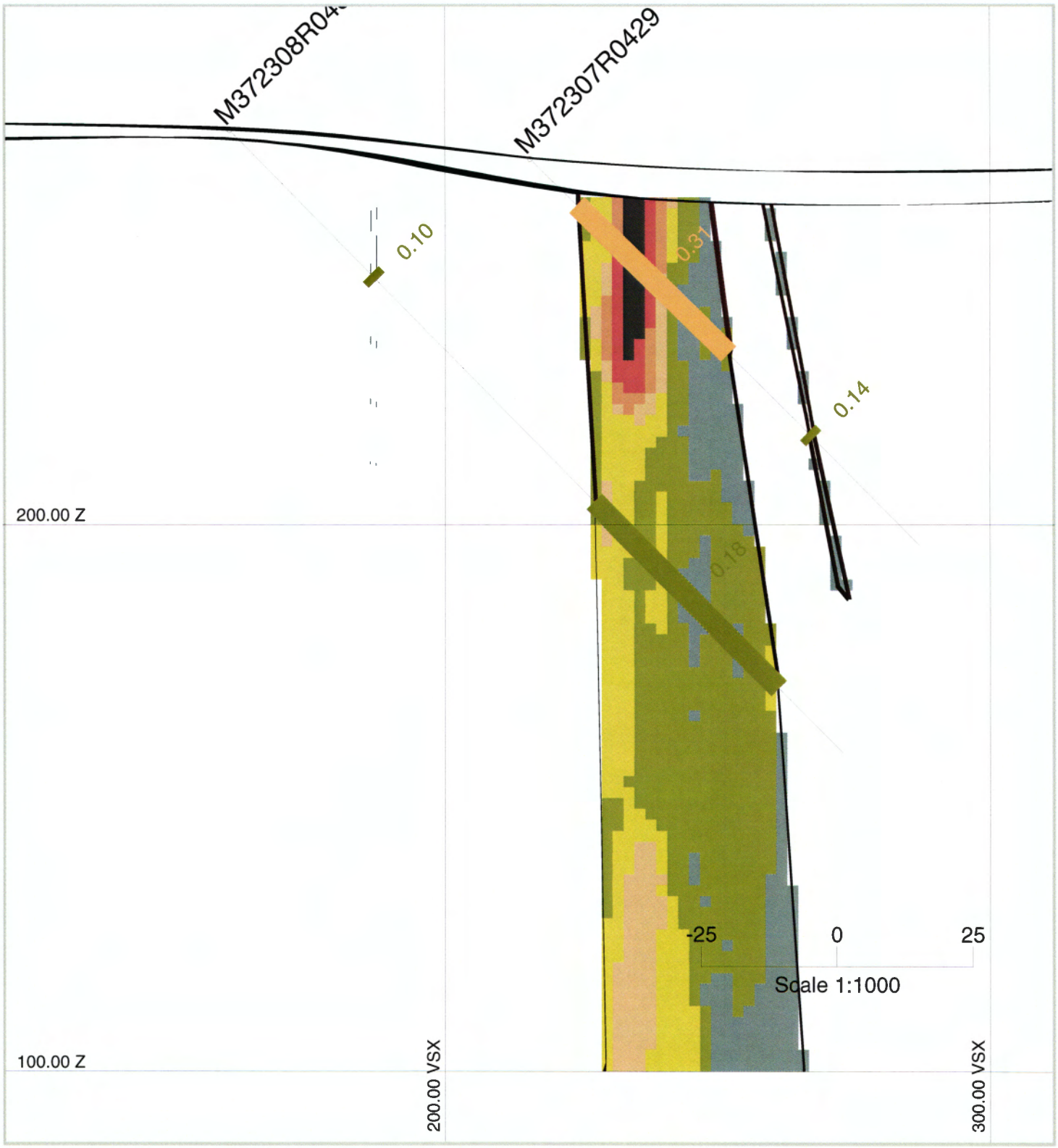
Pt: Composites and Block Model

Vertical Section 20 050

EK GTK

29.10.2010



PT_PPM
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- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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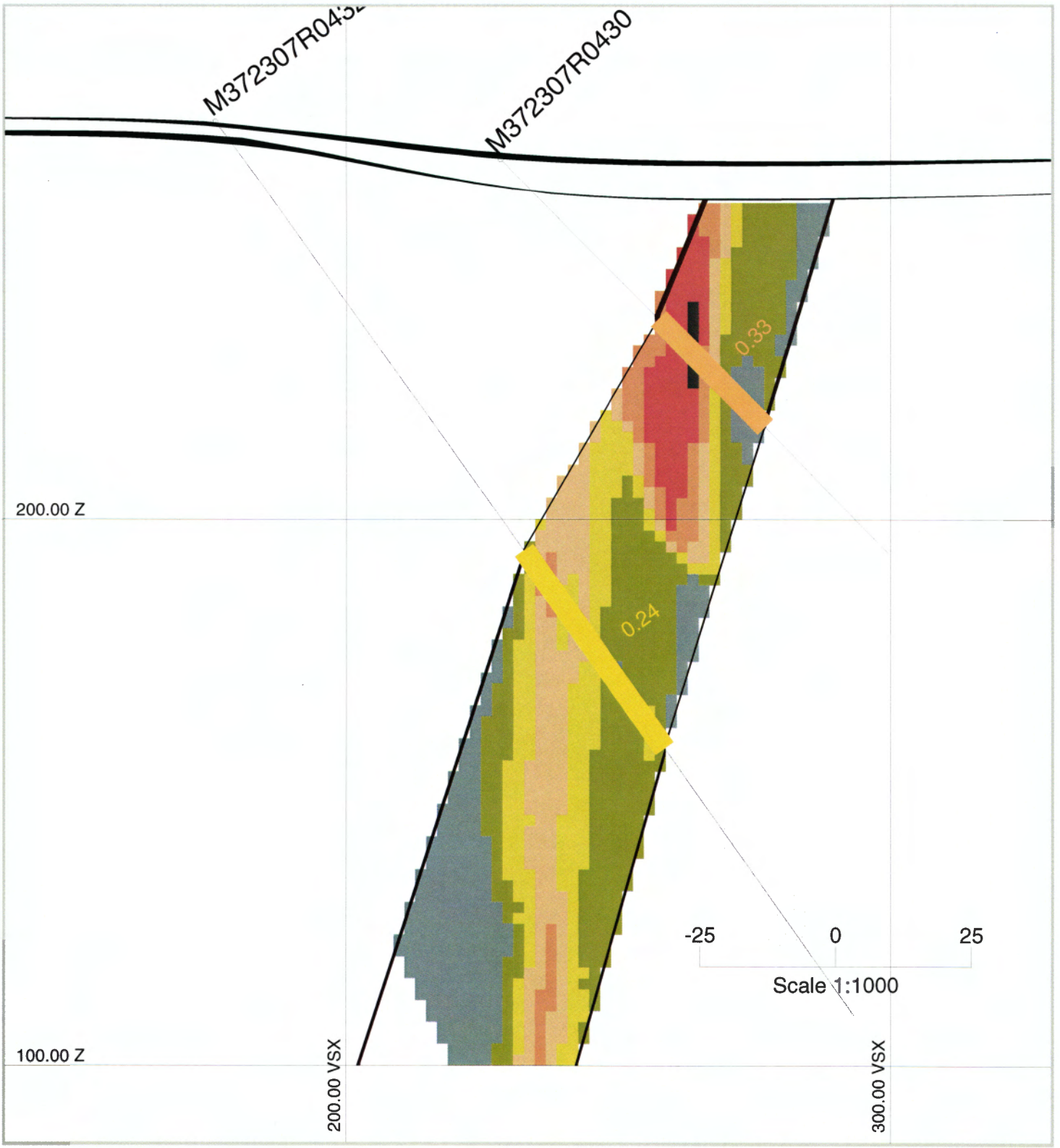
Pt: Composites and Block Model

Vertical Section 20 100

EK GTK

29.10.2010



PT_PPM
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- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

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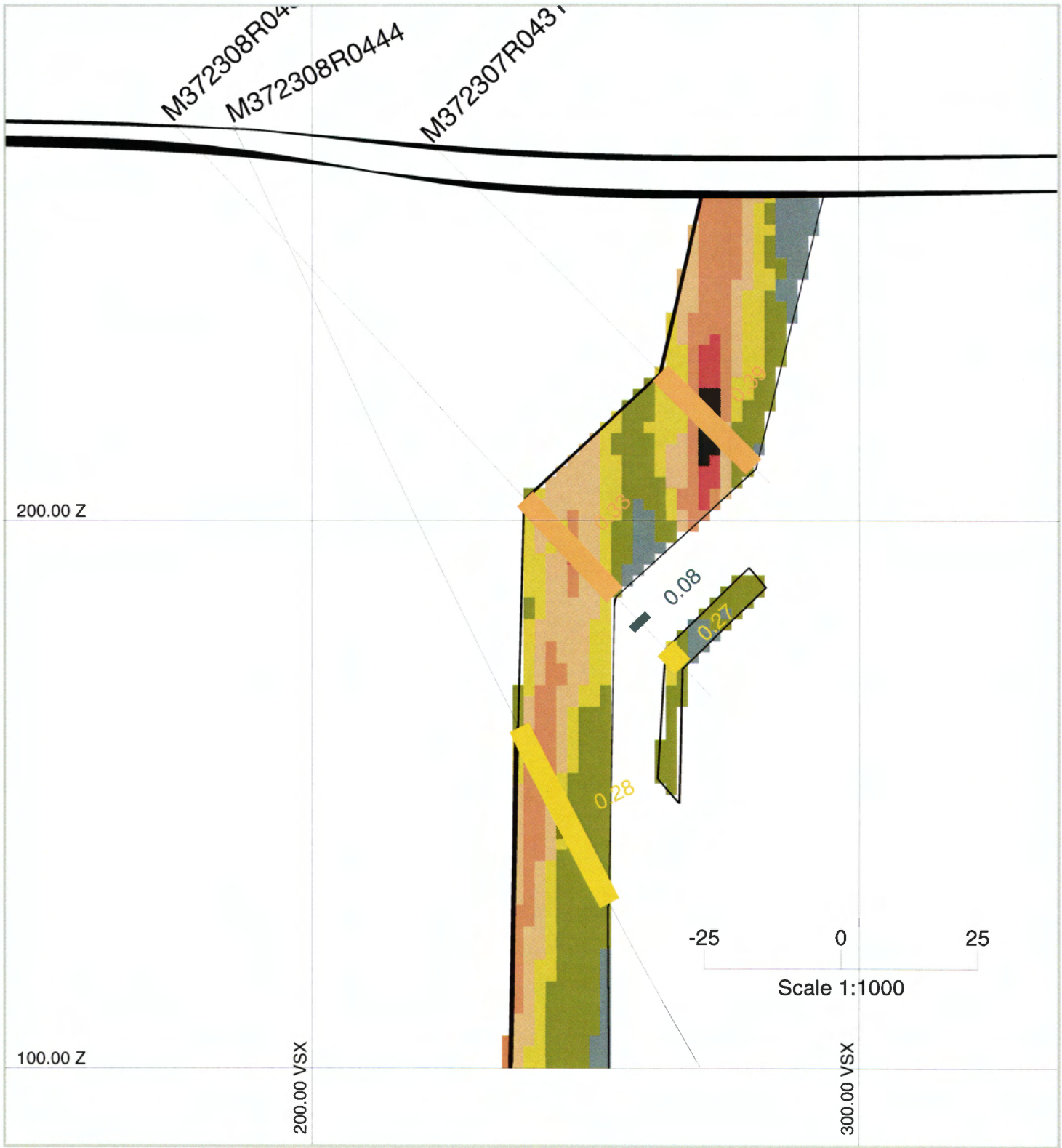
Pt: Composites and Block Model

Vertical Section 20 150

EK GTK

29.10.2010



PT_PPM
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- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

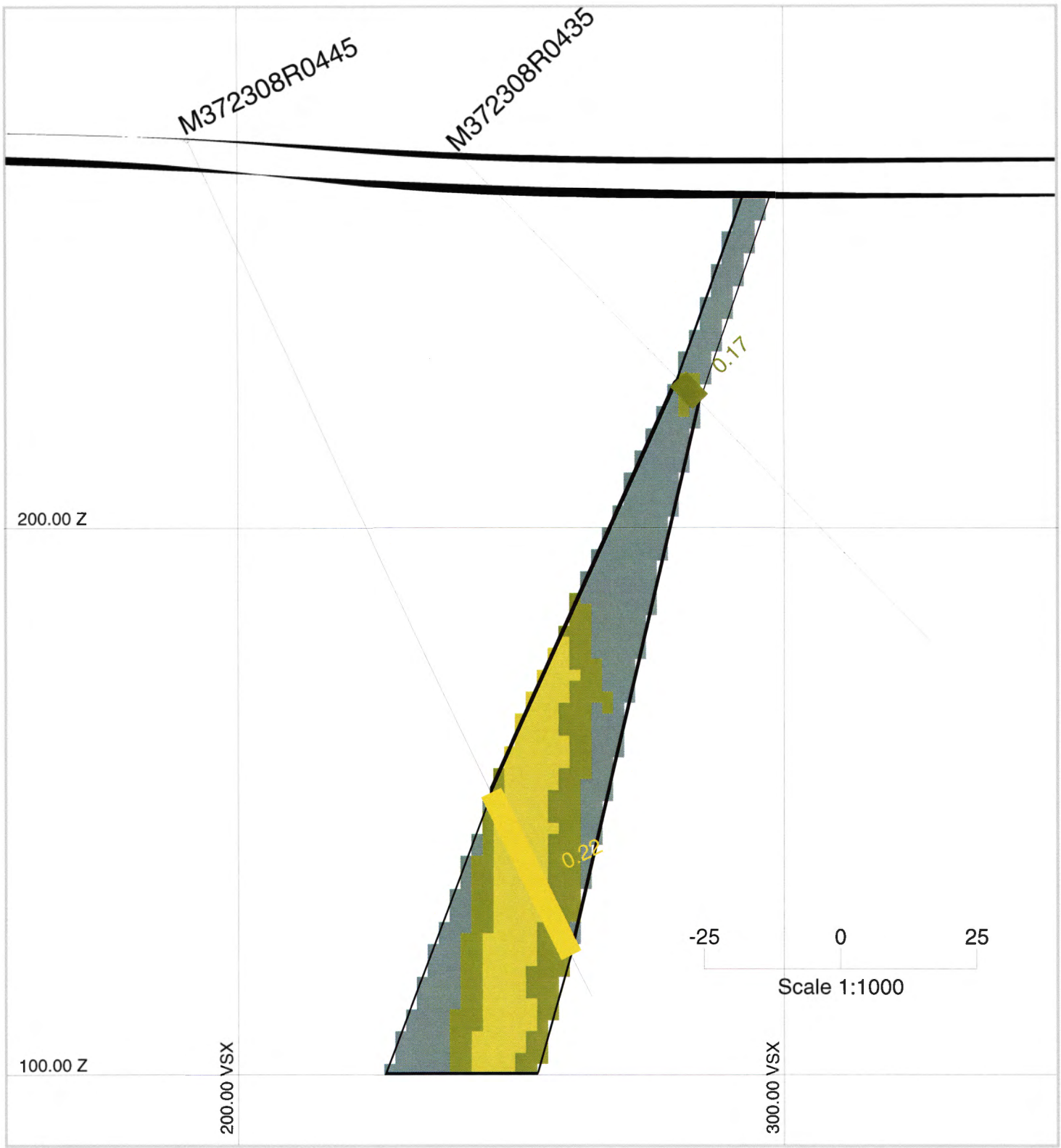
Sodankylä

Pt: Composites and Block Model

Vertical Section 20 200

EK GTK

29.10.2010



PT_PPM

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- 0.10000 - 0.20000
- 0.20000 - 0.30000
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- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

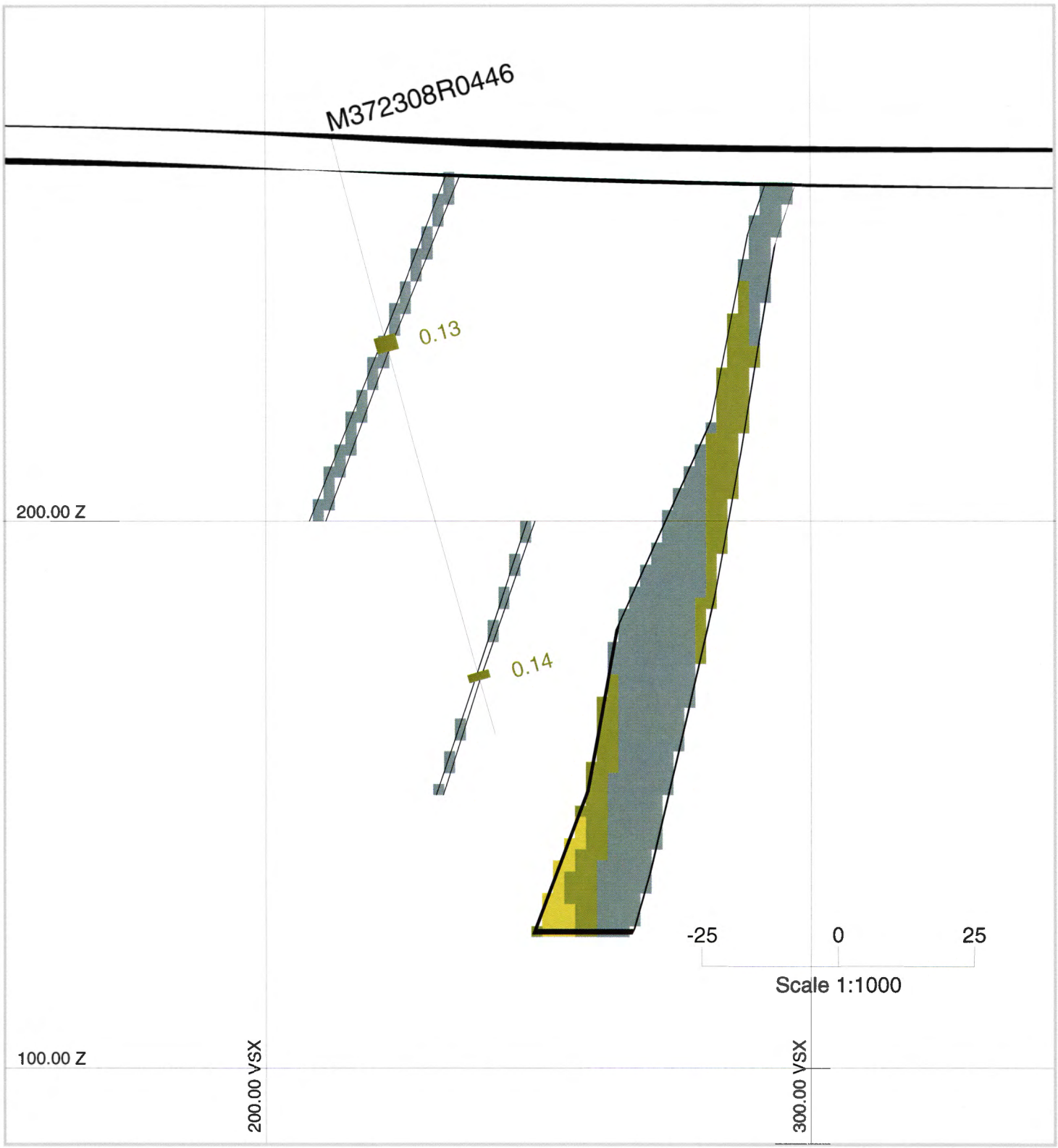
Sodankylä

Pt: Composites and Block Model

Vertical Section 20 250

EK GTK

29.10.2010



PT_PPM

- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

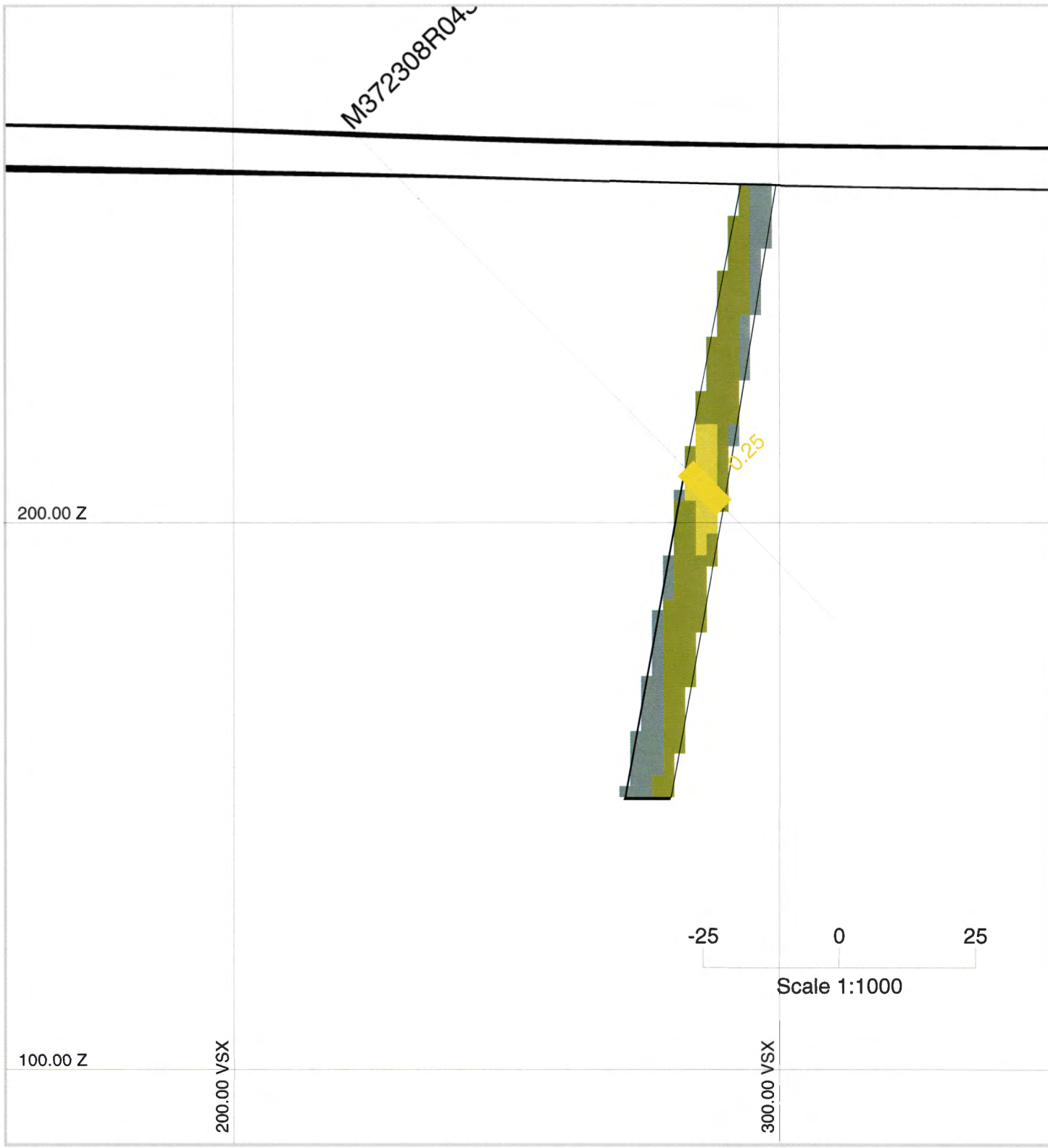
Sodankylä

Pt: Composites and Block Model

Vertical Section 20 300

EK GTK

29.10.2010



PT_PPM
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- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

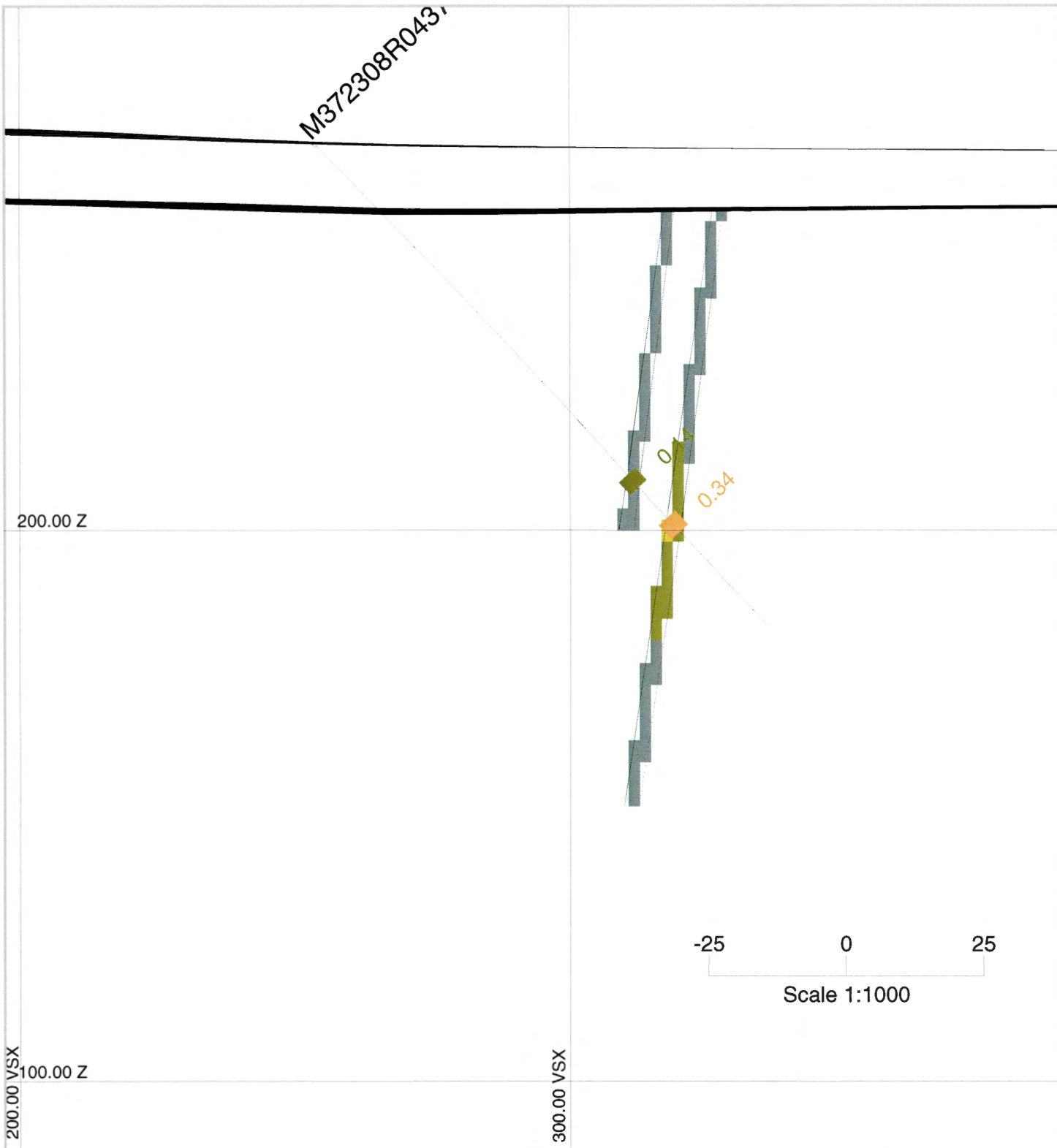
Sodankylä

Pt: Composites and Block Model

Vertical Section 20 350

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

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Sodankylä

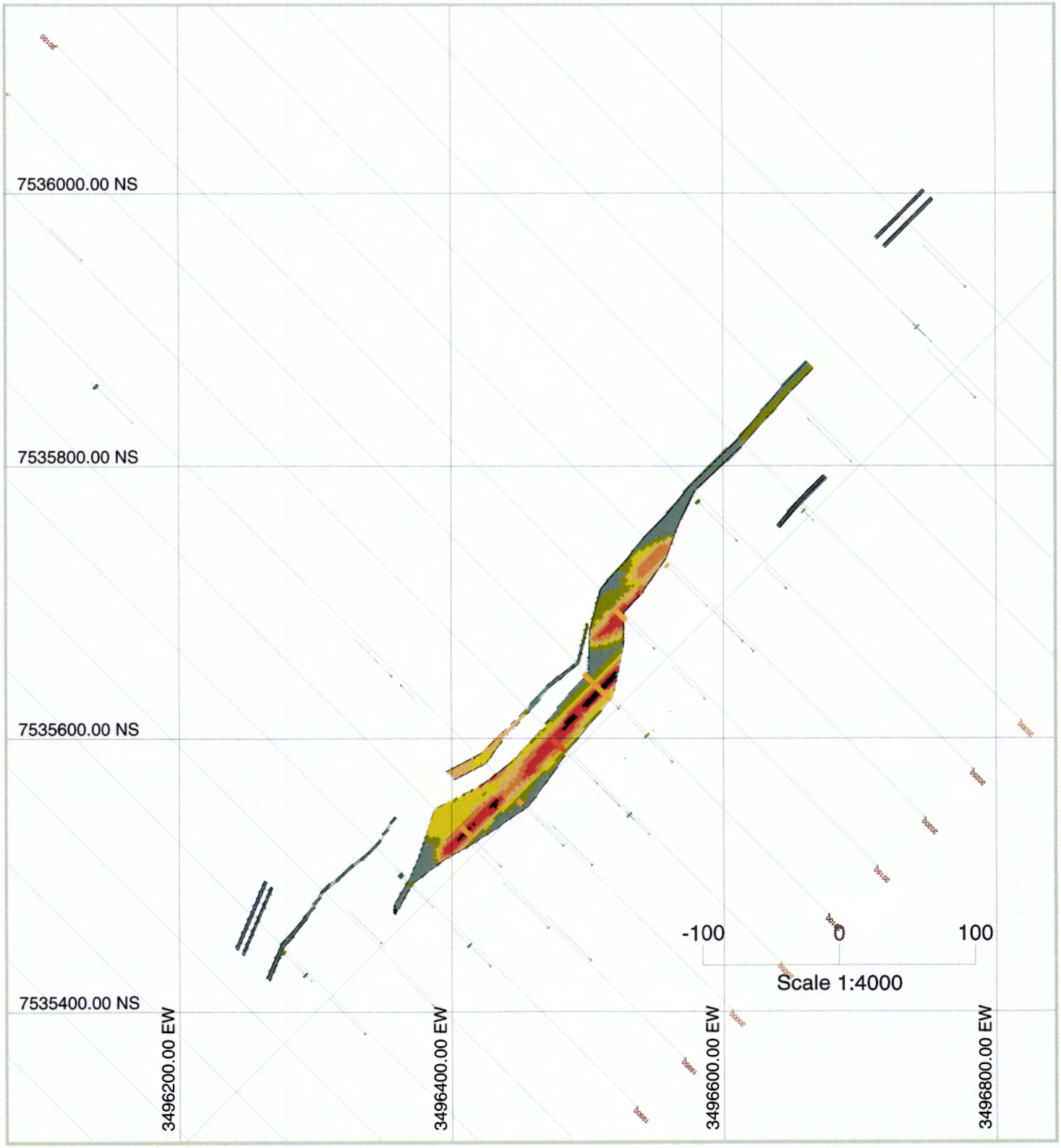
Pt: Composites and Block Model

Vertical Section 20 500

EK GTK

29.10.2010

Appendix 4. Planviews: drill holes, Pt composites, Pt blocks



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

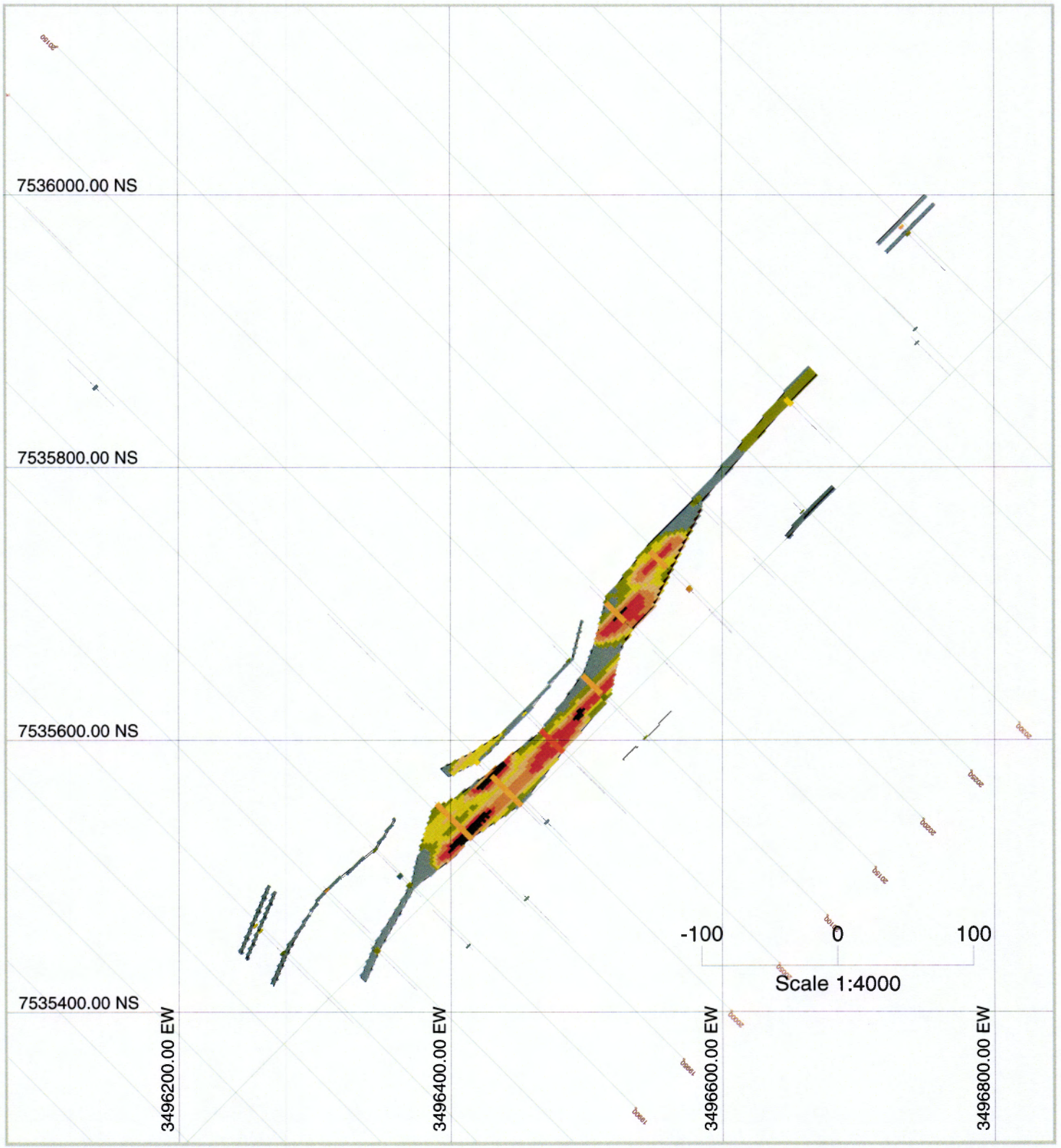
Sodankylä

Pt: Composites and Block Model

Planview z = 250

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

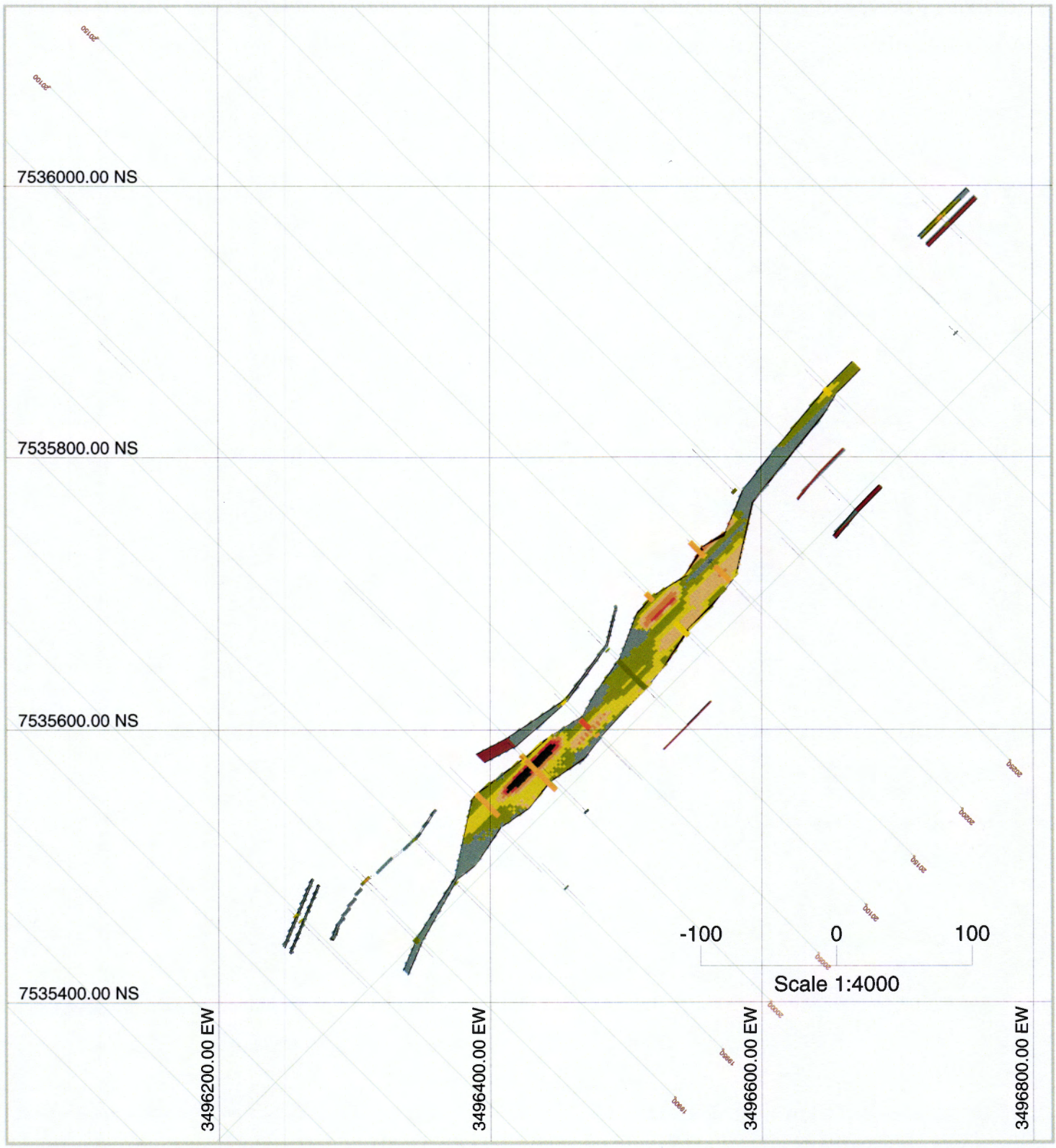
Sodankylä

Pt: Composites and Block Model

Planview z = 225

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

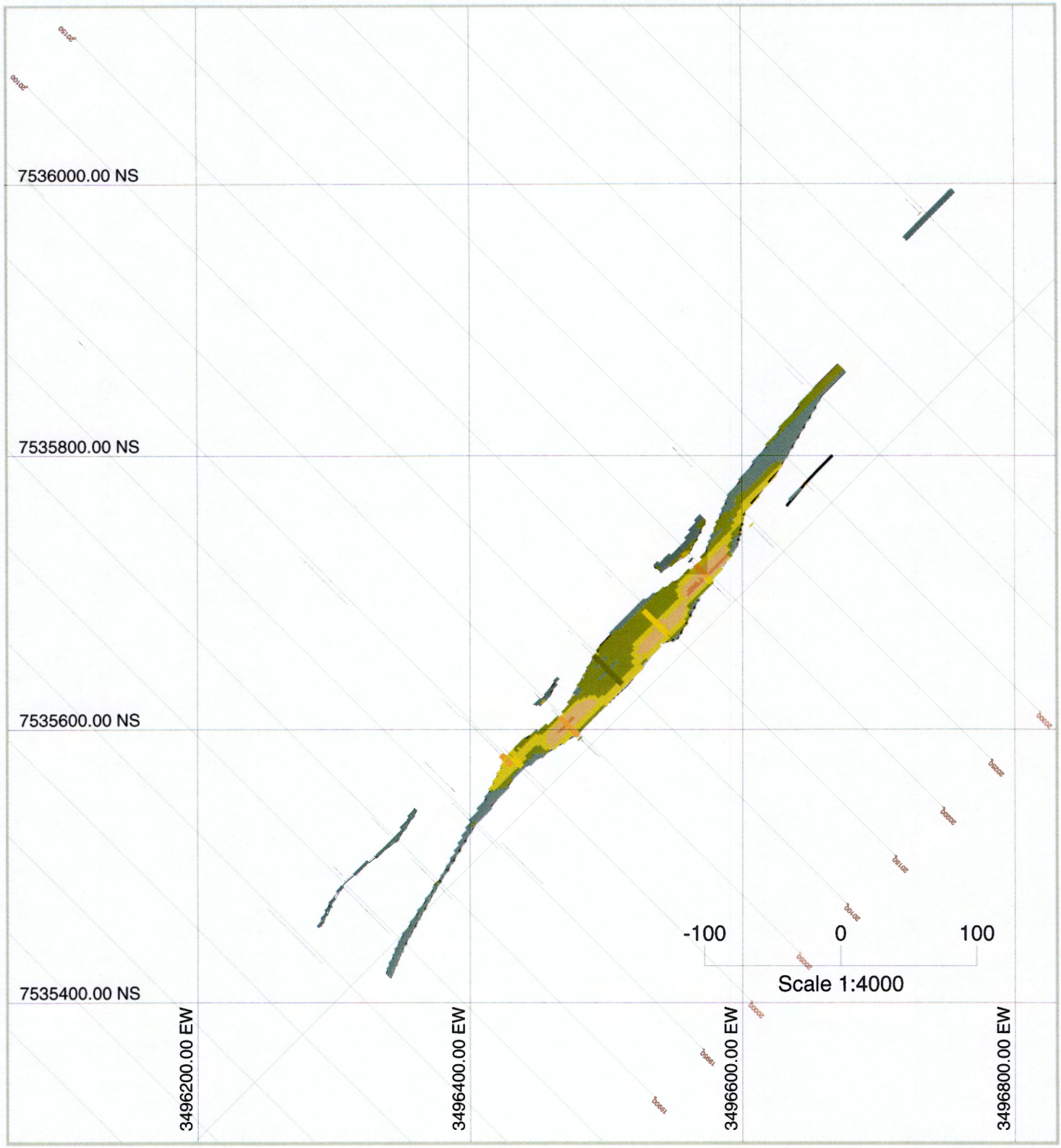
Sodankylä

Pt: Composites and Block Model

Planview z = 200

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

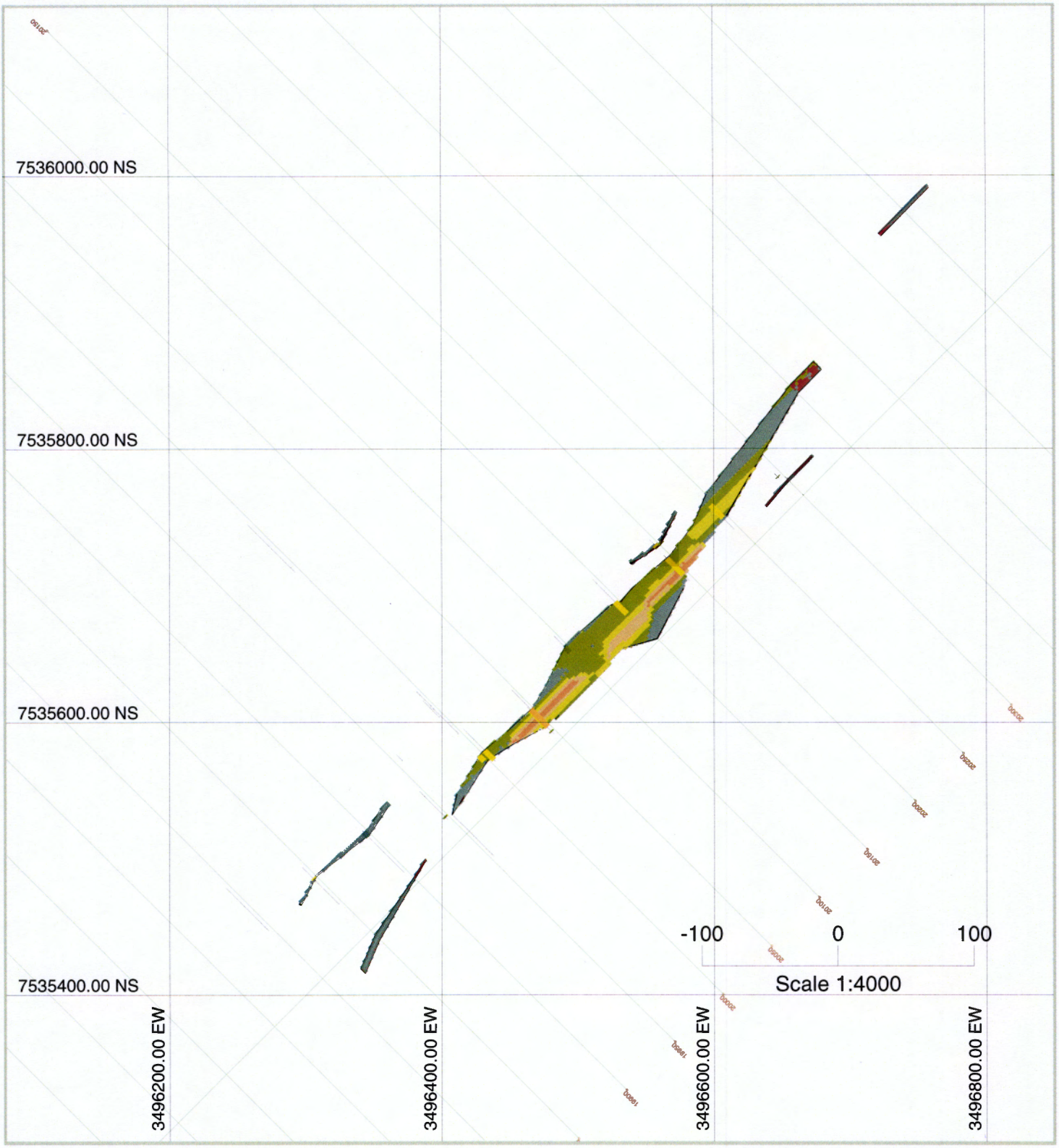
Sodankylä

Pt: Composites and Block Model

Planview z = 175

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

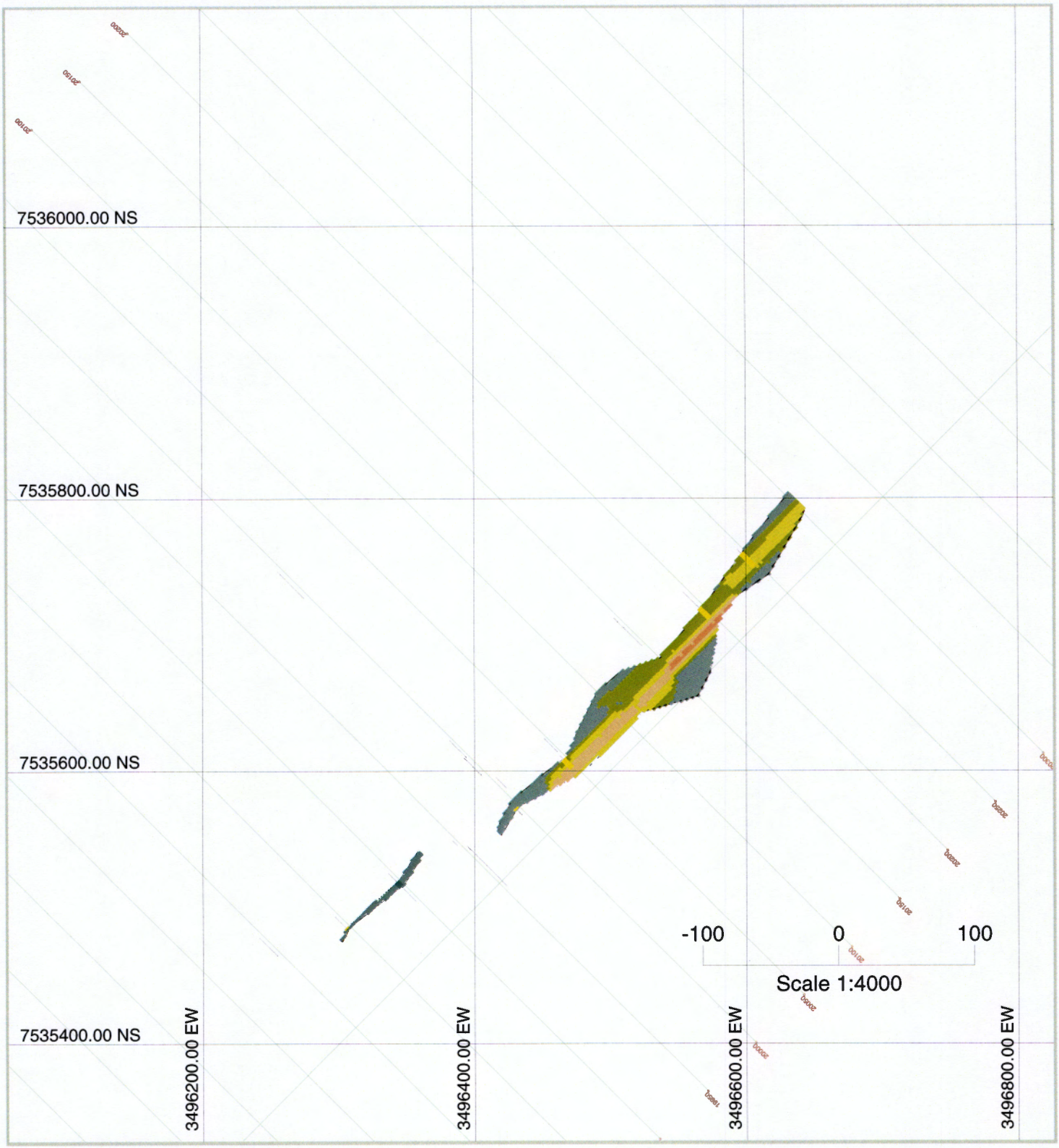
Sodankylä

Pt: Composites and Block Model

Planview z = 150

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

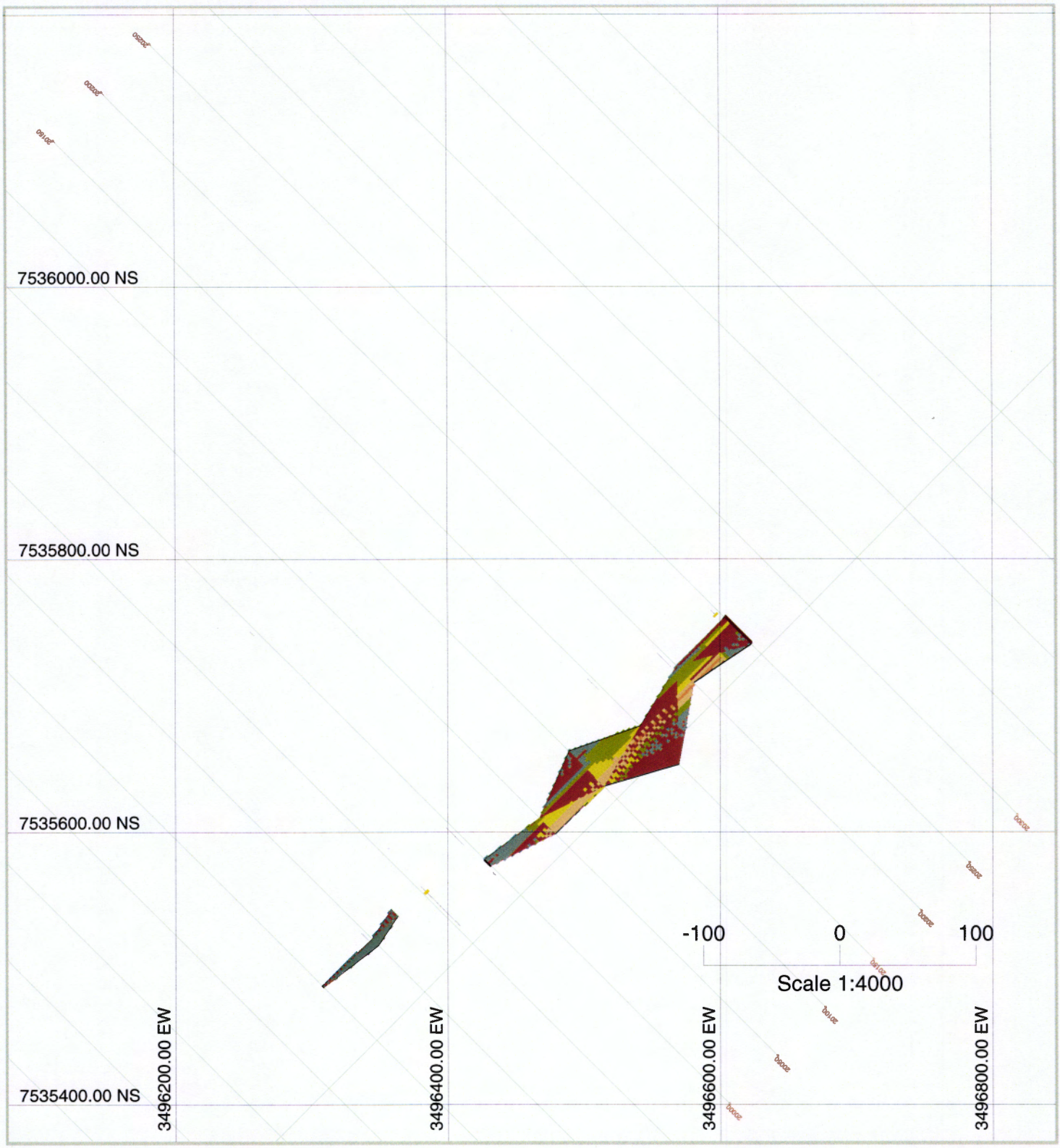
Sodankylä

Pt: Composites and Block Model

Planview z = 125

EK GTK

29.10.2010



PT_PPM
- 0.00000 - 0.10000
- 0.10000 - 0.20000
- 0.20000 - 0.30000
- 0.30000 - 0.40000
- 0.40000 - 0.50000
- 0.50000 - 0.60000
- 0.60000 - 1.32000

LOMALAMPI

Sodankylä

Pt: Composites and Block Model

Planview z = 100

EK GTK

29.10.2010