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Oskarshamn site investigation

Boremap mapping of core drilled boreholes KLX05

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December 2005

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Keywords: KLX05, Geology, Drill core mapping, Boremap, Fractures, Simpevarp, BIPS.

This report concerns a study which was conducted for SKB. The conclusions and viewpoints presented in the report are those of the authors and do not necessarily coincide with those of the client.

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Abstract

Borehole KLX05 is a deep (~ 1,000 m) cored borehole, drilled within the site investigation program in the Oskarhamn area since 2003. The borehole was drilled between October 2004 and January 2005. The drill core of KLX05 covers the interval 100–1,000 m, while the uppermost 100 m was percussion drilled.

Rock types, alterations, fractures and other structures were studied using the drill core and BIPS-images and the information was documented in the software Boremap. All these data will be used in further interpretation of the bedrock conditions in the area down to a depth of approximately 1,000 m.

KLX05 is in the interval 100–475 m made up of a rock sequence with frequently alternating Ävrö granite (501044), granite (501058), fine-grained granite (511058), diorite/gabbro (501033) and fine-grained dioritoid (501030). The interval 475–995 m in KLX05 is almost exclusively made up of quartz monzodiorite (501036), with the exception of fine-grained granite (511058) in the interval 690–750 m. The subdivision of KLX05 is principally based on lithological variations since geological structures and fractures do not show any pronounced frequency maxima. These sections are; section I: 100–325 m, section II: 325–475 m, section III: 475–650 m, section IV: 650–815 m, section V: 815–995 m.

KLX05 does not show any outstanding geological features except for the frequently alternating lithology in the upper half of the bore hole.

Sammanfattning

KLX05 är ett djupt (ca 1 000 m) kärnborrhål som borrats inom ramen för Platsundersökningen i Oskarshamnsområdet, sedan 2003. Borrhålet borrades i Laxemar under slutet av 2004 och början av 2005. KLX05 är ungefär 1 000 m långt. De översta 100 m är hammarborrade, medan 100–1 000 m är kärnborrad.

Bergarter, omvandlingar, sprickor och andra strukturer dokumenterades med hjälp av borrkärna och BIPS-bild och matades in i Boremap. Dessa data kommer att användas som underlag vid tolkningar och modelleringar av berggrunden ner till 1 000 meters djup.

Övre delen av KLX05, 100–475 m, utgörs av växlande litologi bestående av Ävrögranit (501044), granit (501058), finkornig granit (511058), diorit-gabbro (501033) och finkornig dioritoid (501030). Intervallet 475–995 m består nästan enbart av kvarts-monzodiorit (501036) med undantaget en finkornig granit (511058) i intervallet 690–750 m. Sektioneringen av KLX05 har i huvudsak gjorts utifrån litologiska variationer, eftersom andra egenskaper inte har varit till hjälp. De litologiska sektionerna är enligt följande; sektion I: 100–325 m, sektion II: 325–475 m, sektion III: 475–650 m, sektion IV: 650–815 m och sektion V: 815–995 m.

KLX05 har inga framträdande geologiska drag förutom den stora variationen i litologi i borrkärnans övre del.

Contents

1 Introduction

This document reports the data gained by Boremap mapping of the borehole within the Laxemar area, which is one of the activities performed within the site investigation in the Oskarshamn area. The work was carried out in accordance with activity plan AP PS 400-05-018. In Table 1-1 controlling documents for performing this activity are listed. Both activity plan and method descriptions are SKB's internal controlling documents.

Since 2002, SKB investigates two potential sites for a deep deposition of nuclear waste in the Swedish Precambrian basement at approximately 500 m depth. These places are Forsmark in northern Uppland and Simpevarp/Laxemar area in eastern Småland. In order to make a preliminary evaluation of the rock mass down to a depth of about 1 km at these sites, SKB has initiated a drilling program using core drilled boreholes.

The borehole KLX05 was drilled in 2005 and the borehole is situated within the Laxemar area (Figure 1-1). KLX05 is telescopic, which means that the uppermost 100 m was drilled by percussion drilling followed by core drilling (100–1,000 m). No drill core thus exists for the uppermost 100 m.

Detailed mapping of the drill cores is essential for a three dimensional understanding of the geology at depth. The mapping is based on the use of so called BIPS-images of the borehole wall and by the study of the drill core itself. The BIPS-images enable the study of orientations, since the Boremap software calculates strike and dip of planar structures such as foliations, rock contacts and fractures. Also the fracture apertures in the rock can be estimated.

Table 1-1. Controlling documents for the performance of the activity.

Activity plan	Number	Version
Boremapkartering av KLX05	AP PS 400-05-018	1.0
Method descriptions	**Number**	**Version**
Nomenklatur vid Boremapkartering	SKB MD 143.008	1.0
Method Description for Boremap mapping	SKB MD 143.006	2.0

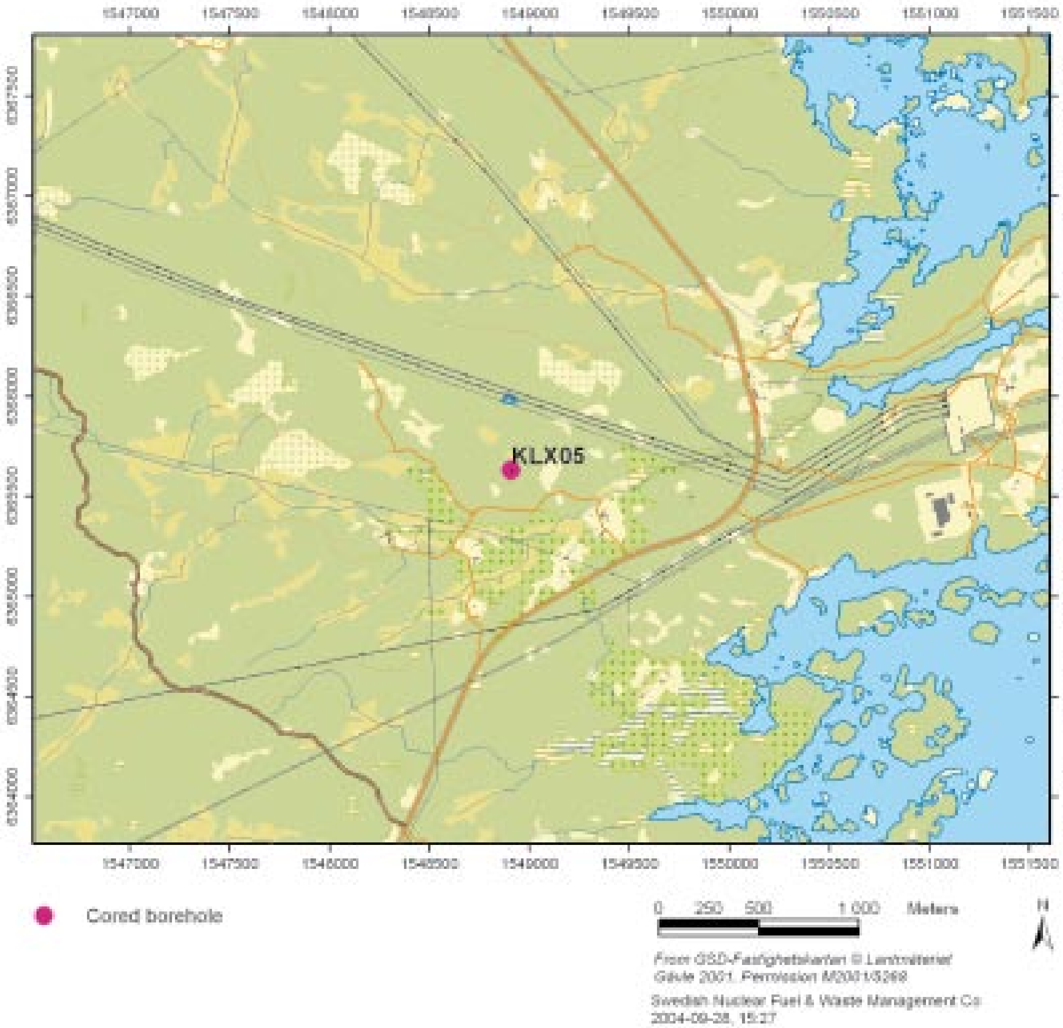


Figure 1-1. *Location of the core drilled borehole KLX05.*

2 Objective and scope

The principal aim of the mapping activities presented in this report is to obtain a detailed documentation of geological structures and lithologies intersecting borehole KLX05. Geological structures will be correctly oriented in space along the borehole. The results will serve as a platform for forthcoming investigations of the drill core, as well as various site descriptive modelling.

3 Equipment

3.1 Description of Software

The mapping was performed in Boremap v. 3.6, with bedrock and mineral standards of SKB. The final data presentation was made using StereoNet, WellCad v. 4, and BIPS Image Print.

Boremap is the software that unite orthodox core mapping with modern video mapping. The software deals with the mapping data as well as the internal communication between programs. Boremap shows the video image from BIPS (Borehole Image Processing System) and extracts the geometrical parameters: length, width, strike and dip from the image.

3.2 Other equipment

The following equipment was used to facilitate the core mapping: folding rule and pen, hydrochloric acid, knife, water-filled atomizer and hand lens.

3.3 BIPS-image video film sequences

The BIPS video film of KLX05 covers the interval 108 – 991m.

3.4 BIPS-image video film quality

The main reasons why thinner fractures are visible or not in the BIPS-image are image resolution, image contrast and image quality.

3.4.1 BIPS-image resolution

The BIPS-image resolution is perhaps the principal reason why very thin fractures as well as very thin apertures are not visible in the BIPS-image. The resolution depends on the BIPS video camera pixel size and illumination angle.

3.4.2 BIPS-image contrast

Thicker fractures are always visible in both drill core and the BIPS-image. However, the visibility of thinner fractures depends strongly on the colour contrast between the fracture and the wall rock.

A light coloured fracture in a dark rock is easily visible in the BIPS-image. A light coloured fracture in a light coloured rock might, however, be clearly visible in the drill core but not visible in the BIPS-image, especially if the fracture and wall rock have the same colour. The opposite is true for dark fractures.

In the rare case when the BIPS-image contrast between a very thin fracture and the wall rock is very strong the fracture might be visible in the BIPS-image even if it is not visible in the drill core. Such fractures were given the mineral code X9 in first mineral fill.

3.4.3 BIPS-image quality

The BIPS-image quality is sometimes limited by disturbances such as:

1) blackish coatings probably related to the drilling equipment,
2) vertical bleached bands from the clayey mixture of drill cuttings and water,
3) light and dark bands at right angle to the drill core related to the automatic aperture of the video camera,
4) vertical enlargements of pixels due to stick-slip movement of the camera probe.

Problems related to the video camera aperture and the enlargement of pixels are can be neglected in KLX05.

The main disturbances for the BIPS-image quality in KLX05 are vertical bleached bands but also blackish coatings.

The image quality is classified into four classes; good, acceptable, bad and very bad. With good quality means a more or less clear, easy to interpret the image. With acceptable quality means that the image is not really good, but that the mapping can be performed without problems. An image with bad quality is somewhat difficult to interpret and an image with very bad quality cannot be interpreted and only very obvious and outstanding features can be mapped. It should be remembered that even if only 10–20% of the image is visible this is often enough for an acceptable interpretation. When the BIPS-image quality is so bad that fractures and structures can not be identified in the BIPS-image, they can still be oriented using the *guide-line method* (Section 4.3.3). Better cleaning of the borehole could increase the mapping quality drastically. The BIPS-image quality in KLX05 is presented in Table 3-1.

Table 3-1. BIPS-image quality.

Sec up (m)	Sec low (m)	Interval (m)	Quality
108	310	202	Good – Acceptable
310	460	150	Acceptable – Bad
460	490	30	Good – Acceptable
490	550	60	Acceptable – Bad
550	585	35	Good – Acceptable
585	620	55	Acceptable – Bad
620	650	30	Good – Acceptable
650	860	210	Acceptable – Bad
860	875	15	Bad – Very Bad
875	995	120	Acceptable – Bad

4 Execution

4.1 General

The Boremap-mapping of the telescopic drilled borehole KLX05 was performed and documented according to activity plan AP PS 400-05-018 (SKB, internal document) referring to the Method Description for Boremap mapping (SKB MD 143.006, v.2.0, SKB, internal controlling document).

The first 100 m of KLX05 was drilled by percussion drilling and therefore no drill core was received. The core to borehole KLX05 covers the interval 100.40–1,000.16 m.

The whole drill core was displayed on inclined roller tables in its entire length and mapped with the Boremap system at Simpevarp. The core mapping was carried out without any detailed geological knowledge of the area but with access to geophysical logs.

Generalized geophysical logs were available during Boremap mapping of the borehole.

The mapping was performed by Jan Ehrenborg (Mírab Mineral Resurser AB) and Peter Dahlin (Geosigma AB).

4.2 Preparations

Any depth registered in the BIPS-image deviates from the true depth in the borehole, a deviation which increases with depth. This problem was eliminated by adjusting the depth according to reference slots cut into the borehole every fiftieth meter (Appendix 10). The level for each slot was measured in the BIPS-images and then adjusted to the correct level using the correct depth value from the SICADA database.

The different orientations of the observations were adjusted to true space. Data necessary for this adjustment were borehole diameter and deviation; both collected from SICADA database (Appendices 8 and 9).

4.3 Execution of measurements

Concepts used during the mapping the core, are defined in this chapter.

4.3.1 Fracture definitions

Definition of different fracture types, also crush and sealed fracture network, are found in a PM "Nomenklatur vid boremapkartering" (internal SKB document). Apertures for broken fractures have been mapped in accordance with the definitions in this PM.

In the mapping phase, fractures that split the core are mapped as BROKEN and fractures that have not parted the core are mapped as UNBROKEN. All fractures are described with their fracture minerals and other characteristics, such as width, aperture and roughness. Visible apertures are measured down to 1 mm in the BIPS-image. Smaller apertures, which are impossible to detect in the BIPS-image, are denoted a value of 0.5 mm. Core pieces with bad fit are characterized as "probable aperture" and fractures with good fit but a dull or altered surface as "possible aperture".

All fractures that possess apertures > 0 mm, are in SICADA database interpreted as OPEN. Only few BROKEN fractures are given the aperture = 0 mm. UNBROKEN fractures usually have apertures = 0 mm. If UNBROKEN fractures possess apertures > 0 mm, they are interpreted as partly open and included in the OPEN-category. OPEN and SEALED fractures are finally frequency calculated and shown in (Appendices 1 and 5).

4.3.2 Fracture alteration and joint alteration number

The joint alteration number is principally related to the thickness of, and the clay content in, a fracture. Thicker fractures rich in clay minerals therefore get joint alteration numbers 2–3. The majority of the fractures in the core are very thin to extremely thin and seldom contain clay minerals and therefore receive a joint alteration numbers between 1 and 2.

A subdivision of fractures with joint alteration numbers between 1 and 2 was introduced to facilitate both the evaluation process for fracture alterations and the possibility to compare the alterations between different fractures in the boreholes. The subdivision is based on fracture mineralogy and is as follows:

a) fracture wall alterations,

b) fracture mineral fillings assumed to have been deposited from circulating water-rich solutions,

c) fracture mineral fillings most likely resulting from altered wall rock material.

Joint alteration number equal to 1: Fractures with or without wall rock alteration, e.g. oxidation or epidotization, and without mineral fillings were considered as fresh. The joint alteration number is thus set to 1.

The minerals calcite, quartz, fluorite, zeolites, such as laumontite, and sulphides are regarded as deposited by circulating water-rich solutions in broken fractures and not as true fracture alteration minerals. The joint alteration number is thus set to 1 also for these minerals.

Joint alteration number equal to 1.5: Minerals as epidote, prehnite, hematite, chlorite and/or clay minerals is regarded as fracture minerals most likely resulting from altered wall rock material. A weak alteration is thus assumed and the joint alteration number is set to 1.5. Extra considerations have been given to clay minerals since the occurrence of these minerals often resulted in a higher joint alteration number.

Joint alteration numbers higher than 1.5: When the mineral fillings is thicker and contain a few mm thick bands of clay minerals, often together with minerals like epidote and chlorite, the joint alteration number is set to 2. In rare cases, when a fracture contains 5–10 mm thick clayey bands, together with chlorite, the joint alteration number is set to 3.

When the alteration of a fracture is too thick (and/or intense) to give the fracture the joint alteration number 1.5 and too thin and/or weak to give it a 2, 1.7 and 1.8 were used.

4.3.3 Mapping of fractures not visible in the BIPS-image

Not all fractures are visible in the BIPS-images, and these fractures are orientated by using the *guide-line method*, based on the following data:

- Absolute depth.
- Amplitude (measured along the drill core). The amplitude is the interval along a drill core which is cut by a fracture, i.e. from upper to lower extremes of a fracture along the drill core.
- The relation between the orientations of the fracture trace, measured on the drill core and a well defined structure visible in the BIPS-image.

The error of orientating fractures using the *guide-line method* is not known but experience and an estimation using stereographic plots indicated that the error is most likely insignificant. Anyhow, the *guide-line method* is so far considered better than only marking fractures that are non-visible in the BIPS-images as planes perpendicular to the borehole. The fractures in question are mapped as "non-visible in BIPS" and can therefore be separated from fractures visible in BIPS which probably have a more accurate orientation.

When using the *guide-line method* the difference between the 50 mm drill core diameter and the 76 mm borehole diameter must be considered. This difference result in displacements of the structures seen in the drill core compared with the structures seen in the BIPS-image which represents the borehole walls. This displacement is zero for structures that cut the drill core at right angle and successively becomes larger as the orientation of the structure approximates the direction of the drill core axis. This displacement always has to be corrected for, since displacements of a few cm are common even if they seldom reach 10 cm.

Orientation of fractures and other structures with the *guide-line method* is performed in the following way: The first step in the guide-line method is to correct the amplitude of the fracture trace in the BIPS-image to the higher amplitude value. The second step is the correction of strike and dip. This is done by rotating the fracture trace in the BIPS-image relative to a feature with known orientation. The fracture is then located at the correct depth according to the depth measured on the drill core.

The *guide-line method* can be used to orientate any fracture/structure that is not visible or visible in the BIPS-image. It is also a valuable tool to control that the personnel working with the drill core is observing the same fracture/structure as the personnel delineating the fracture trace in the BIPS-image, especially in intervals rich in fractures.

4.3.4 Definition of veins and dikes

Veins and dykes are differentiated by their respectively width. Veins are set to 0–20 cm wide and dykes are set to 20–100 cm wide. Since the maximum width of *rock occurrence* is 100 cm wider dykes are mapped under the feature *rock type.*

4.3.5 Mineral codes

In the case where properties and/or minerals are not represented in the mineral list, following mineral codes have been used:

X5 whitish, bleached feldspar.

X6 the drill core is broken at right angle to the drill core and the broken surfaces have a polished appearance. This is believed to indicate that a sealed fracture broke up during drilling and where the two drill core parts have rotated against each other wearing away the mineral fill.

X7 broken fracture with a fresh appearance and no mineral fill.

X8 fractures with epidotized walls.

X9 sealed fractures visible in the BIPS-image but not in the drill core.

4.4 Data handling

The mapping is performed on-line on the SKB network, in order to obtain the best possible data security. Before every break (> 15 minutes) a back-up is saved on the local disk.

The mapping is quality checked by a routine in Boremap before it is exported to and archived in SICADA database. Personnel from SKB also perform spot test controls and regular quality revisions.

All primary data is stored in SKB's database SICADA. Only these data are to be used for further interpretation and modelling.

4.5 Geological Summary table, general description

The Geological Summary table (Appendix 1) is an overview of the geological parameters mapped with the Boremap system. It also facilitates comparisons between Boremap information collected from different boreholes and is more objective than a pure descriptive borehole summary.

The Geological Summary table is the result of cooperation between Jan Ehrenborg from the mapping personnel at Simpevarp and Pär Kinnbom from PO (site investigation, Simpevarp). The aim was to make a standard form in handy A4-size, where all information is taken directly from the SICADA database by using simple and well defined search paths for each geological parameter (Appendix 2).

The search paths are, however, yet not automatic and the geological information therefore has to be extracted from the SICADA database before it is reworked on separate Excel-files and finally presented in the Geological Summary table. At the moment it is only possible to extract the Rock Type and Alteration parameters directly from the SICADA database.

The main reason why the information in the SICADA database cannot be extracted automatically is the lack of a mathematical formula for calculation of frequencies for different parameters. Such a formula will be added.

The Geological summary table is made up of 23 columns, each one representing a specific geological parameter. The geological parameters are presented as either intervals or frequencies. Intervals are calculated for parameters with a width ≥ 1 m and frequencies for parameters with a width < 1 m. Frequency information is treated as if it does not have any extension along the borehole axis. They are treated as point observations. It should be noted that parameters with a thickness of only 1 mm therefore has the same "value" as a similar parameter with a thickness of 999 mm since both are treated as point observations and used for frequency calculations.

Parameters are sometimes related in such a way that the mapping of one parameter cause a decrease in the frequency of another parameter. This type of intimate relationship between parameters has been noted for the following cases;

- There is a decrease in the frequency of *unbroken fractures* with oxidized walls and without mineral fillings in intervals mapped with *Alteration – oxidation.*
- No *unbroken fractures* are mapped in intervals of *sealed fracture network*.
- *Broken fractures* are usually not mapped in intervals with *crush.*
- Composite dykes generally include a large amount of fine to medium grained granite veins. These veins are not mapped and the frequency presented for veins + dykes in column 6 (Appendix 1) are lower than the true frequency in composite dyke intervals.

4.5.1 Columns in the Geological Summary table

The Geological summary table includes the following 23 columns:

Column 1: *Rock Type / Lithology*, interval column. Only lithologies longer than 1 m are presented here. Shorter lithologies are presented in column 6. This column is identical with the ordinary WellCad presentation.

Column 2: *Rock Type / Grain size*, interval column. Interval limits follows column 1. This column is identical with the ordinary WellCad presentation.

Column 3: *Rock Type / Texture*, interval column. Interval limits follows column 1. This column is identical with the ordinary WellCad presentation.

Column 4: *Alteration / Oxidation*, interval column. No frequency column is presented for alteration/oxidation. The alteration/oxidation column is identical with the ordinary WellCad presentation.

Column 5: *Alteration / intensity*, interval column. This column is identical with the ordinary WellCad presentation.

Column 6: *Rock Occurrence / Veins + Dykes < 1 m wide*, frequency column. This rock type column can be seen as the frequency complement to the rock type/lithology interval column. Only rock type sections that are thinner than 1 m can be described as rock occurrences in Boremap. Thicker rock type sections are mapped as rock type.

Column 7: *Structure / Shear Zone < 1 m wide*, frequency column. This column includes ductile shear structures as well as brittle-ductile shear structures and these are mapped as rock occurrences in Boremap. Ductile sections in mm – cm scale are mapped as shear structures and in dm – m scale as sections with foliation.

Column 8: *Structure / Brecciated < 1 m wide*, frequency column. Breccias < 1 m wide are mapped as rock occurrence in Boremap. Very thin micro breccias along sealed/natural fracture planes are generally not considered.

Column 9: *Structure / Brecciated ≥ 1 m wide*, interval column. Breccias > 1 m wide are mapped as rock type/structure in Boremap.

Column 10: *Structure / Mylonite < 1 m wide*, frequency column. Mylonites < 1 m wide are mapped as rock occurrence/structure in Boremap.

Column 11: *Structure / Mylonite ≥ 1 m wide* is an interval column. Mylonites > 1 m wide are mapped as rock type/structure in Boremap.

Column 12: *Structure / Foliation < 1 m wide* is a frequency column. Sections with foliation < 1 m wide are mapped as rock occurrence/structure in Boremap. Very thin sections with foliation are called ductile shear structures and presented in column 7.

Column 13: *Structure / Foliation ≥ 1 m wide* is an interval column. Sections with foliation > 1 m wide are mapped as rock type/s

structure in Boremap.

Column 14: *Sealed fractures / All*, frequency column. This column includes all fractures mapped as unbroken in the Boremap system and this includes unbroken fractures where the drill core is not broken as well as unbroken fractures interpreted to have broken up artificially during/after drilling.

Column 15: *Sealed fractures / Broken fractures with aperture = 0*, frequency column. This column includes unbroken fractures interpreted to have broken up artificially during/after drilling.

Column 16: *Sealed fractures / Sealed Fracture Network < 1 m wide*, frequency column. The sealed fracture network parameter is the only parameter that is generally evaluated directly from observations of the drill core. These types of sealed fractures can only in rare cases be observed in the BIPS-image.

Column 17: *Sealed fractures / Sealed Fracture Network ≥ 1 m wide*, interval column.

Column 18: *Open fractures / All Apertures > 0*, frequency column. This column includes all broken fractures, both fractures that with certainty were open before drilling and fractures that probably or possibly were open before drilling.

Column 19: *Open fractures / Uncertain, Aperture = 0.5 probable + 0.5 possible*, frequency column. This column includes fractures that were probably or possibly open before drilling.

Column 20: *Open fractures / Certain Aperture = 0.5 certain and > 0.5*, frequency column. This column includes fractures that with certainty were open before drilling.

Column 21: *Open fractures / Joint alteration > 1.5*, frequency column. This column show fractures with stronger joint alteration than normal. This parameter is generally correlated with the location of lithologies with a more weathered appearance.

Column 22: *Open fractures / Crush < 1 m wide*, frequency column. This column includes shorter sections with crush.

Column 23: *Open fractures / Crush ≥ 1 m wide*, interval column. This column includes longer sections with crush.

5 Results

The result of the Boremap mapping of KLX05 is principally found in the Appendices. The information from SICADA and Boremap database has been compressed to the size of an A4-sheet in the Geological Summary table, Appendix 1. The search paths for the Geological Summary table are presented in Appendix 2. Stereographic diagrams of the orientations of open fractures are presented in Appendix 3. The BIPS-image of KLX05 is shown in Appendix 4 and the corresponding WellCad diagram in Appendix 5. In-data, like borehole length, borehole diameter, borehole orientation data and are presented in Appendices 6, 7 and 8.

5.1 Geological Summary table, KLX05

The uppermost 450 m in KLX05 comprise a rock sequence with rapid lithological changes. The interval 450–1,000 m is almost exclusively made up of quartz monzodiorite (501036), with the exception of the interval 690-750 m, where fine-grained granite (511058) dominates.

Oxidized intervals occur through the whole borehole and are generally from a few metres up to 50 m in thickness and show strong variation in intensity. The strongest oxidation occurs in the interval 100–215 m.

Veins and dykes are common through the whole borehole, with exception of a stronger anomaly of veins and dykes which can be found in the interval 650–815 m.

Shear structures occur through the whole borehole and show a weak frequency maximum in the interval 480–620 m.

Only a few very thin breccias occur in KLX05.

Three thin mylonites occur in KLX05. Two of them are found in a strongly oxidized section in the interval 480–485 m.

Thin intervals with foliation are found through the whole borehole. The interval 650–815 m shows a stronger and more continuous foliation, compared to the rest of the borehole.

Neither sealed nor open fractures (interpreted) show pronounced frequency maxima in KLX05. The Geological Summary table, however, shows a weak increase in the fracture frequencies below 650 m and low frequency maxima for open fractures (interpreted) in the interval 690–710 m.

Neither sequences of high joint alteration numbers nor intervals with crush have been mapped in KLX05.

There is a strong uncertainty whether fractures that break the core were open in the bedrock or were opened during/after drilling. This is shown in column 19 (Open fractures interpreted, uncertain) and 20 (Open fractures interpreted, certain). The reason for the uncertainty is that the core has a tendency to break up along existing sealed fractures.

As can be seen in the Geological Summary table (Appendix 1) geological structures and fractures in KLX05 do not show pronounced frequency maxima that can be helpful when subdividing the borehole into sections. The subdivision of the core into five sections was thus based almost exclusively on lithological variations.

No well defined weakness zone of brittle character was mapped in KLX05.

Section I (100–325 m) shows frequent variation between 1–40 m thick parts of primarily Ävrö granite (501044), granite (501058) and fine-grained granite (511058). The interval 100–215 m shows the most continuous oxidation in KLX05.

Section II (325–475 m) shows the same frequent alternation of 1–35 m thick parts of different lithologies as in section I. The lithologies are, however, different: diorite/gabbro (501033) and small intervals of Ävrö granite (501044). This section is the least oxidized one in KLX05.

Section III (475–650 m) is strongly dominated by quartz monzodiorite (501036) which is interrupted by few thin veins and dykes of pegmatite. The interval 480–485 m shows a strong oxidation and contains two thin mylonites.

Section IV (650–815 m) is also dominated by the quartz monzodiorite (501036) but is interrupted by an occurrence of fine-grained granite (511058) in the interval 690–750 m. This section differs from the other sections in KLX05 by the occurrence of an almost continuous weak to strong foliation. The strong foliation is concentrated to the fine-grained granite (511058) in the interval 690–750 m.

Section V (815–995 m) is entirely made up of quartz monzodiorite (501044), except for two 1 m thick intervals of fine-grained dioritoid (501030) and pegmatite (501061) respectively.

All length information in this chapter is taken from the Geological Summary table (Appendix 1) and may therefore have an error of 5–10 m. The Geological Summary table for KLX05 is presented in Appendix 1. Rock types mapped in KLX05 are shown in Table 5-1.

Table 5-1. Rock types in KLX05.

%	Rock Type
49.2	501036 Quartz monzodiorite
17.3	501044 Ävrö granite
12.6	511058 Fine-grained granite
10.3	501033 Diorite/gabbro
7.8	501058 Granite
2.0	501061 Pegmatite
0.4	501030 Fine-grained dioritoid
0.4	505102 Fine-grained diorite-gabbro

5.2 Orientation of broken fractures

The orientation of broken fractures is presented in pole diagrams, one for each 100 m interval (see Appendix 3). Fracture orientation values are strike/dip values using the right hand rule.

The orientation of borehole KLX05 at ground level is 190/–65.

Broken fractures not visible in the BIPS-image were oriented according to the *guide-line method* (see Section 4.3.3).

There is a general strong overrepresentation of broken fractures cutting the borehole at high angles compared to fractures cutting the borehole at low angles. This results in artificially high anomaly values for fractures cutting the borehole at high angles and in semi circular distortion of anomaly shapes in the stereographic plots. These effects are stronger the longer the plotted depth interval. It is therefore not recommended to plot intervals longer than 100 m in the same stereogram.

A sub-horizontal fracture set (5–10°, rarely up to 25°) showing strong variation in strike occurs in the interval 100–500 m. The strongest anomalies occur in the intervals 100–200 m and 400–500 m.

A steeply dipping (80–90° dip) fracture set striking W-E to WNW-ESE occurs through the whole borehole. The dip changes to 75° in the interval 900–1,000 m.

Another steeply dipping fracture set (70–90° dip) strike NNW-SSE can be seen through the whole borehole.

The fourth and fifth important fracture sets in KLX05 strike NW-SE (WNW-ESE) and have moderate dip angles (20–40°, rarely 55° dip) towards NE and SW. These fracture sets occur in the interval 300–1,000 m.

A NE-striking fracture set with medium dip angles (20–45° dip) occur as weak anomalies in the interval 200–600 m with the exception of the interval 300–400 m with a strong anomaly.

The anomaly pattern for broken fractures in KLX05 is rather simple. The two steeply dipping fracture sets striking W-E to WNW-ESE and NNW-SSE clearly dominates the fracture orientations through the whole borehole.

5.3 Fracture mineralogies

Percentages of open fracture minerals are shown in Table 5-2 and percentages of sealed fracture minerals are shown in Table 5-3. The total amount of open fractures is 319 (average 0.361 open fractures per meter). The total amount of sealed fracture is 3,219 (average 3,643 sealed fractures per meter).

Table 5-2. Percentages of fracture minerals in open fractures, KLX05.

%	Mineral
30.7	Chlorite
30.5	Calcite
19.9	Clay Minerals
9.3	Pyrite
2.8	Epidote
2.8	Oxidized Walls
0.8	Quartz
0.4	Adularia
0.2	Hematite
0.2	Unknown Mineral
0.1	Iron Hydroxide
0.1	Sericite

Table 5-3. Percentages of mineral fillings in sealed fractures in KLX05.

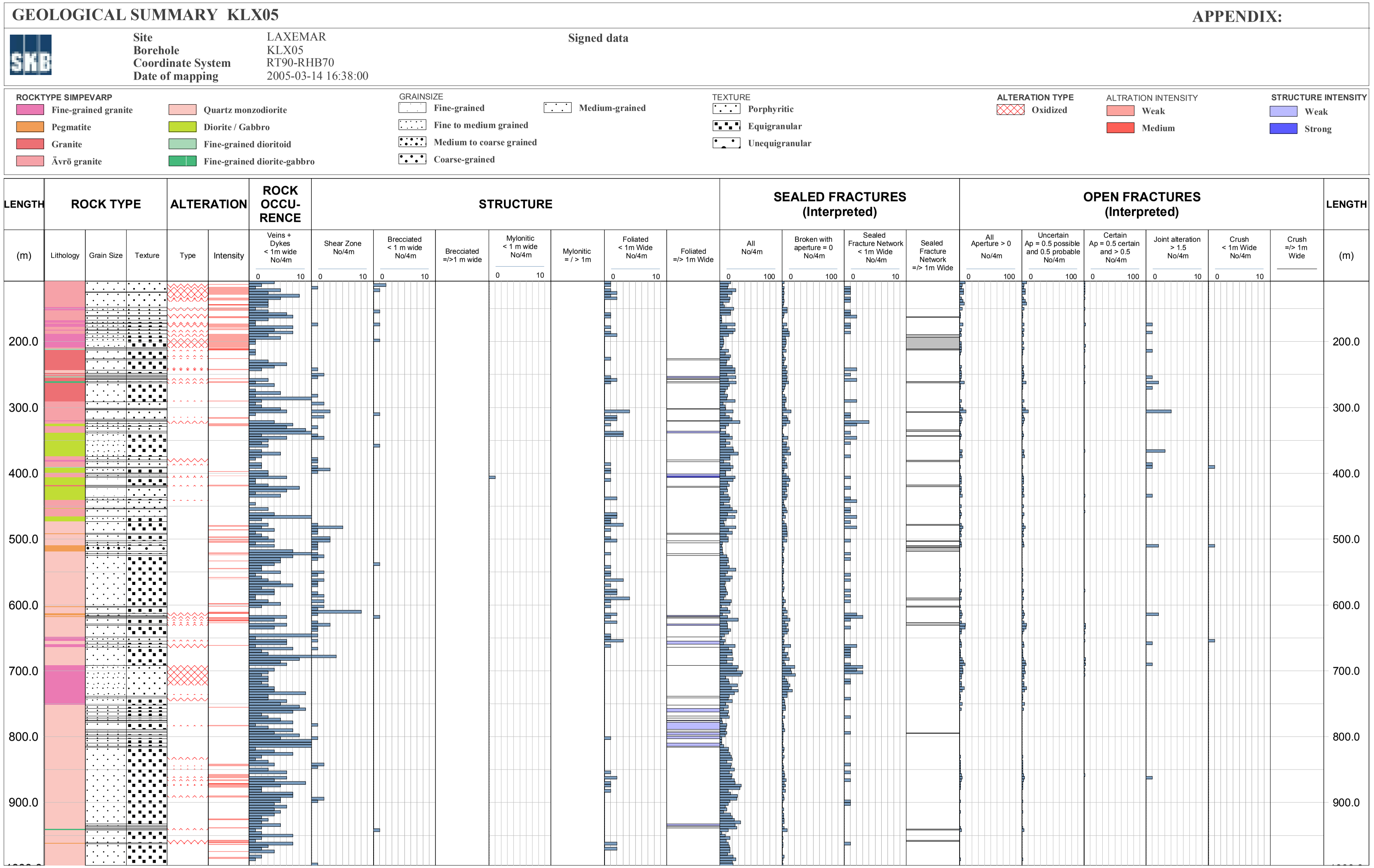
%	Mineral
22.8	Calcite
20.7	Chlorite
12.6	Quartz
12.3	Oxidized Walls
9.3	Epidote
5.8	Pyrite
5.5	Clay Minerals
2.0	Adularia
0.6	White Feldspar

6 Discussion

The mapping of KLX05 has been executed in the same way as earlier mapped boreholes with the exception of *width* for fractures, structures and veins. The width in these cases was earlier measured on the drill core but in KLX05 it was measured in the BIPS-image when possible. However, if the measured fracture width was thinner in the BIPS-image than in the drill core, the width measured on the drill core was used.

Appendix 1

Geological Summary table, KLX05



Appendix 2

Search paths for the Geological Summary table

TABLE HEAD LINES		INFORMATION SOURCE			PRESENTATION
Head lines	**Sub head lines**	**Varcode**	**First suborder**	**Second suborder**	**Interval / frequence**
Rock type	Lithology	5	Sub 1		Interval
	Grain size	5	Sub 5		Interval
	Texture	5	Sub 6		Interval
Alteration	Oxidation	7	Sub 1 = 700		Interval
	Oxidation intensity	7	Sub 1 = 700	Sub 2	Interval
Rock occurrence	Vein + dyke	31	Sub 1 = 2 or 18		Frequence
Structure	Shear zone	31	Sub 4 = 41 or 42		Frequence
	Brecciated, < 1m wide	31	Sub 4 = 7		Frequence
	Brecciated, >/= 1m wide	5 5	Sub 3 = 7 Sub 3 = 7	Sub 4; 101 or 102 = 102 Sub 4; 103 or 104 = 104	Interval
	Mylonite, < 1 m wide	31	Sub 4 = 34		Frequence
	Mylonite, >/= 1 m wide	5 5	Sub 3 = 34 Sub 3 = 34	Sub 4; 101 or 102 = 102 Sub 4; 103 or 104 = 104	Interval
	Foliation zone, < 1 m wide	31	Sub 4 = 81		Frequence
	Foliation zone, >/= 1 m wide	5 5	Sub 3 = 81 Sub 3 = 81	Sub 4; 101 or 102 = 102 Sub 4; 103 or 104 = 104	Interval
Sealed fracture	All unbroken fractures and broken fractures	3 2	 SNUM 11= 0		Frequence
	Broken fractures, Aperture = 0	2	SNum 11 = 0		Frequence
	Sealed fracture network < 1 m wide	32			Frequence
	Sealed fracture network>/= 1 m wide	32			Interval
Open fractures	All, Aperture > 0	2 and 3	SNum 11>0		Frequence
	Uncertain, Aperture = 0.5 possible and 0.5 probable	2 and 3 2 and 3	SNum 11>0 SNum 11>0	Sub 12 = 3 Sub 12 = 2	Frequence
	Certain, Aperture = 0.5 certain	2 and 3	SNum 11>0	Sub 12 = 1	Frequence
	Joint alteration > 1.5	2	SNum16 > 1.5		Frequence
	Crush < 1 m wide	4			Frequence
	Crush >/= 1 m wide	4			Interval

Appendix 3

Stereographic projections of open fractures, KLX05

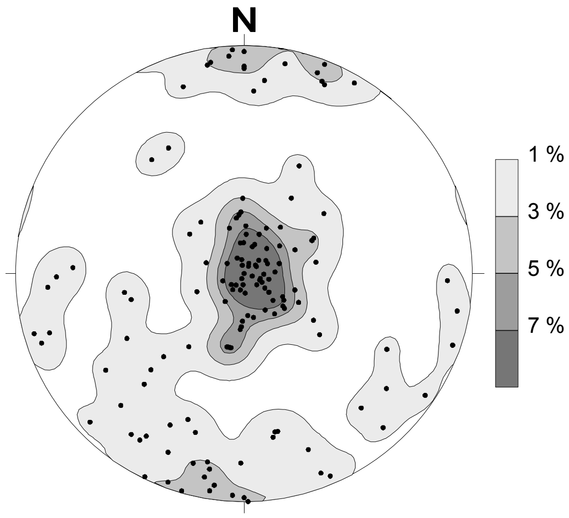


Figure 1: Broken fractures 100-200m (n=152)

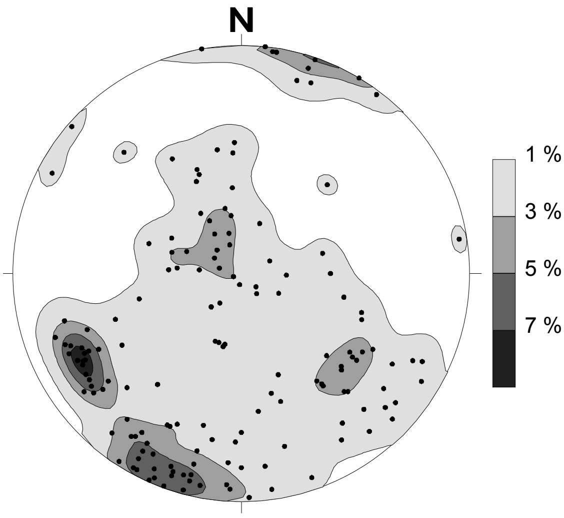


Figure 2: Broken fractures 200-300m (n=157)

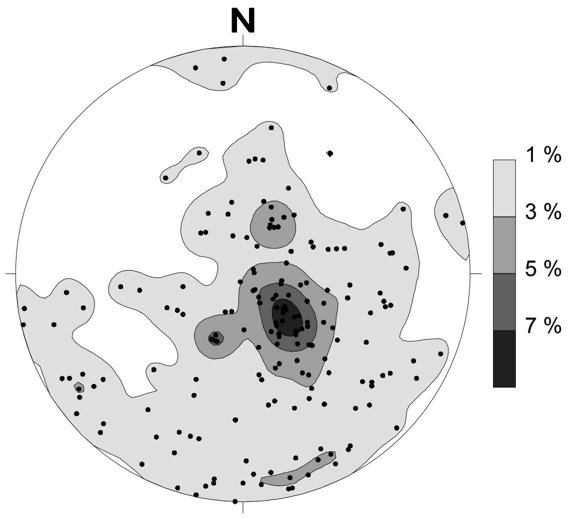


Figure 3: Broken fractures 300-400m (n=188)

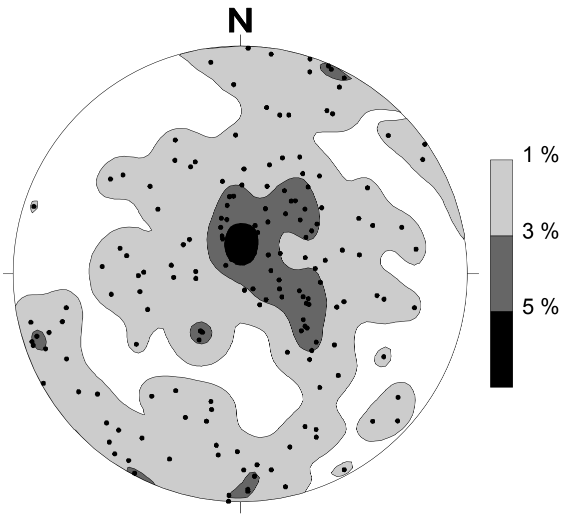


Figure 4: Broken fractures 400-500m (n=182)

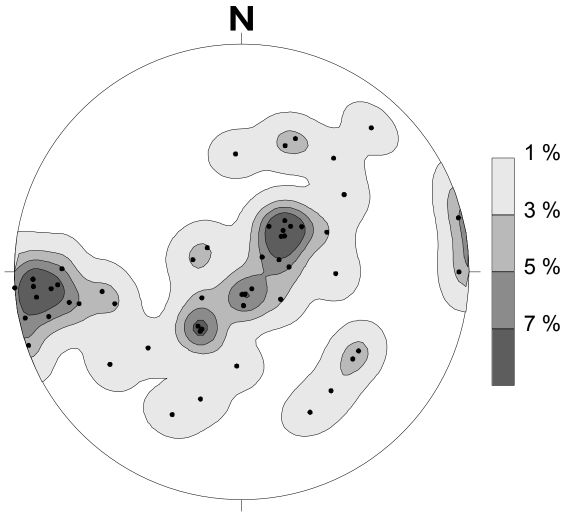


Figure 5: Broken fractures 500-600m (n=56)

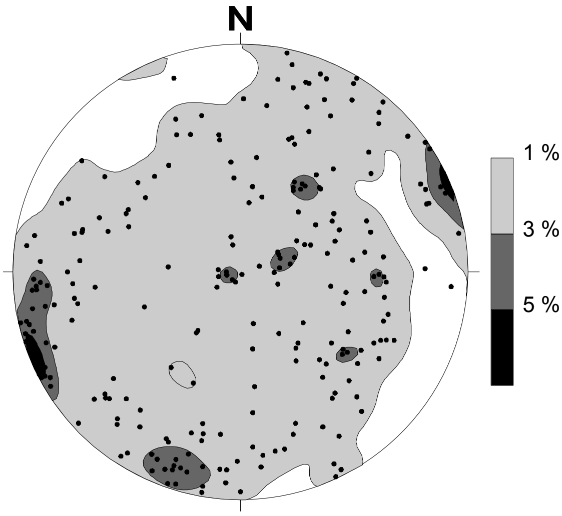


Figure 6: Broken fractures 600-700m (n=249)

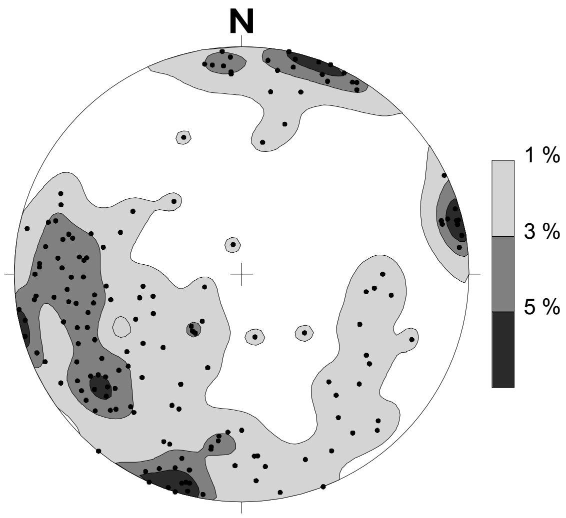


Figure 7: Broken fractures 700-800 (n=173)

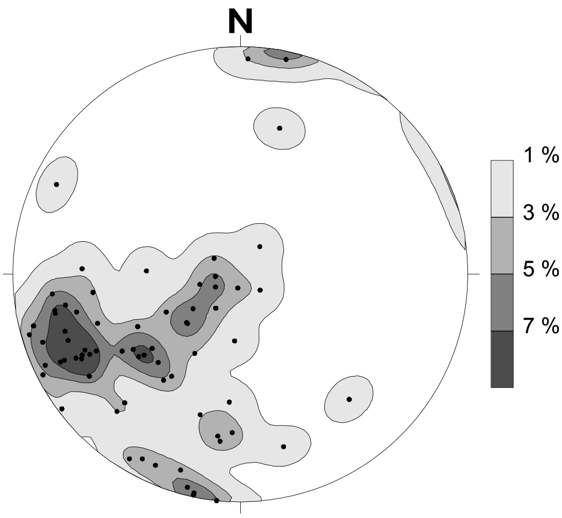


Figure 8: Broken fractures 800-900m (n=71)

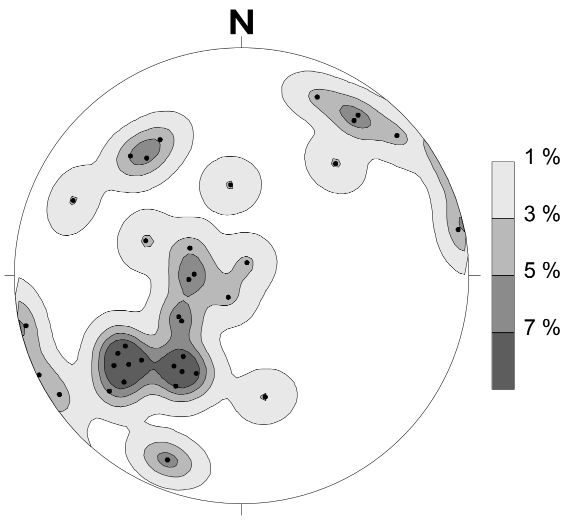


Figure 9: Broken fractures 900-996m (n=37)

Appendix 4

BIPS-images of KLX05

Borehole Image Report

Borehole Name:	KLX05
Mapping Name:	KLX05_JEPD_A
Mapping Range:	108.000 - 991.584 m
Diameter:	76.0 mm
Printed Range:	108.000 - 991.584
Pages:	37

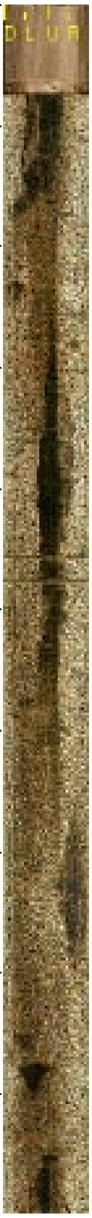
Image File Information:

File:	C:\PROGRAM\Boremap\KLX05\KLX05_108-991m.BIP
Date/Time:	2005-03-23 09:02:00
Start Depth:	108.000 m
End Depth:	991.584 m
Resolution:	1.00 mm/pixel (depth)
Orientation:	Gravmetric
Image height:	883584 pixels
Image width:	360 pixels
BIP Version:	BIP-III
Locality:	LAXEMAR
Borehole:	KLX05
Scan Direction:	Down
Color adjust:	0 0 0 (RGB)

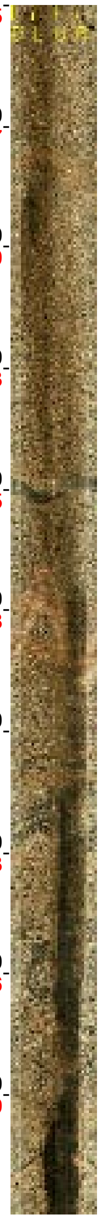
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 108.000 - 133.000 m
Azimuth: 189.5
Inclination: -63.5

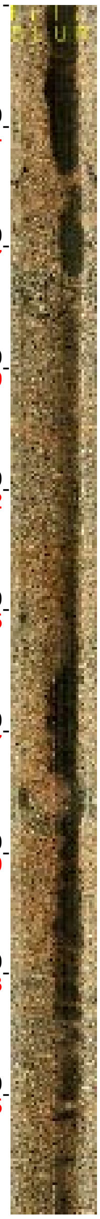
108.000	108.000
108.500	108.439
109.000	108.877
109.500	109.316
110.000	109.754
110.500	110.221
111.000	110.724
111.500	111.227
112.000	111.729
112.500	112.232



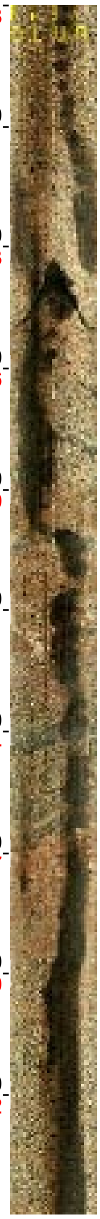
113.000	112.735
113.500	113.237
114.000	113.740
114.500	114.243
115.000	114.745
115.500	115.248
116.000	115.751
116.500	116.253
117.000	116.756
117.500	117.259



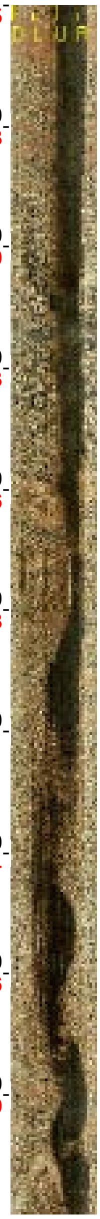
118.000	117.761
118.500	118.264
119.000	118.767
119.500	119.269
120.000	119.772
120.500	120.275
121.000	120.777
121.500	121.280
122.000	121.783
122.500	122.285



123.000	122.788
123.500	123.291
124.000	123.793
124.500	124.296
125.000	124.799
125.500	125.301
126.000	125.804
126.500	126.307
127.000	126.810
127.500	127.312



128.000	127.815
128.500	128.318
129.000	128.820
129.500	129.323
130.000	129.826
130.500	130.328
131.000	130.831
131.500	131.334
132.000	131.836
132.500	132.339



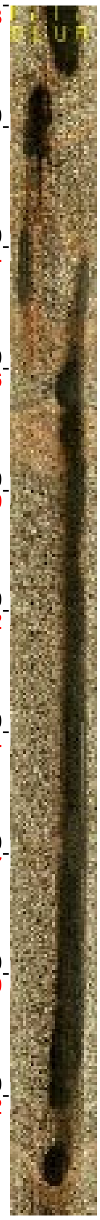
Printed: 2005-04-18 22:25:59   Scale: 1 : 25   Aspect: 150 %   2 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 133.000 - 158.000 m
Azimuth: 191.1
Inclination: -63.3

133.000
132.842
133.500
133.344
134.000
133.847
134.500
134.350
135.000
134.852
135.500
135.355
136.000
135.858
136.500
136.360
137.000
136.863
137.500
137.366

138.000
137.868
138.500
138.371
139.000
138.874
139.500
139.376
140.000
139.879
140.500
140.382
141.000
140.884
141.500
141.387
142.000
141.890
142.500
142.392



143.000
142.895
143.500
143.398
144.000
143.901
144.500
144.403
145.000
144.906
145.500
145.409
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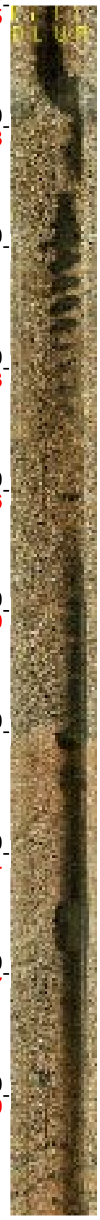
145.911
146.500
146.414
147.000
146.917
147.500
147.419



148.000
147.922
148.500
148.425
149.000
148.927
149.500
149.430
150.000
149.933
150.500
150.434
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151.437
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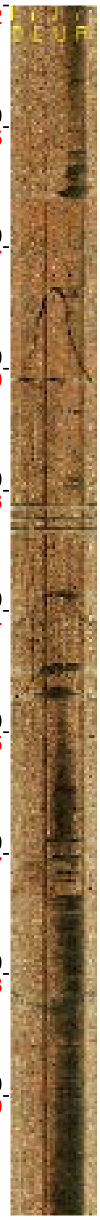
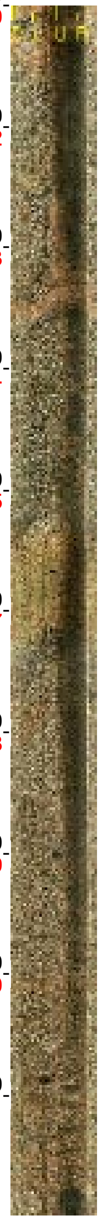
151.938
152.500
152.439



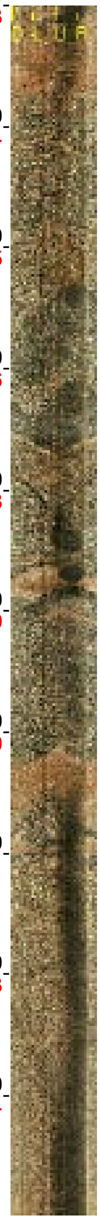
153.000
152.940
153.500
153.442
154.000
153.943
154.500
154.444
155.000
154.945
155.500
155.447
156.000
155.948
156.500
156.449
157.000
156.950
157.500
157.451



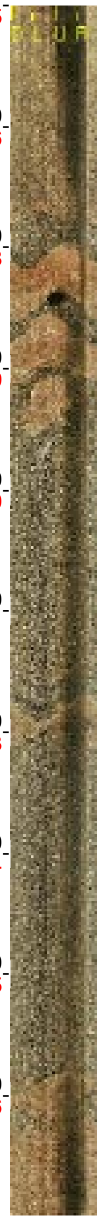
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 3 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

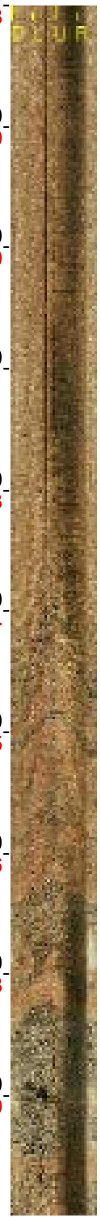
Depth range: 158.000 - 183.000 m
Azimuth: 191.9
Inclination: -63.1



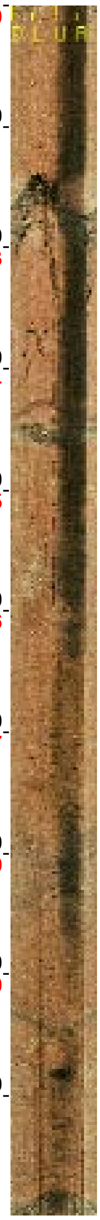
158.000 157.953
158.500 158.454
159.000 158.955
159.500 159.456
160.000 159.958
160.500 160.459
161.000 160.960
161.500 161.461
162.000 161.963
162.500 162.464



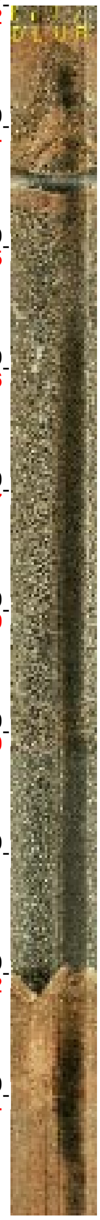
163.000 162.965
163.500 163.466
164.000 163.968
164.500 164.469
165.000 164.970
165.500 165.471
166.000 165.973
166.500 166.474
167.000 166.975
167.500 167.476



168.000 167.978
168.500 168.479
169.000 168.980
169.500 169.481
170.000 169.983
170.500 170.484
171.000 170.985
171.500 171.486
172.000 171.988
172.500 172.489



173.000 172.990
173.500 173.491
174.000 173.993
174.500 174.494
175.000 174.995
175.500 175.496
176.000 175.997
176.500 176.499
177.000 177.000
177.500 177.501



178.000 178.002
178.500 178.504
179.000 179.005
179.500 179.506
180.000 180.007
180.500 180.509
181.000 181.010
181.500 181.511
182.000 182.012
182.500 182.514

Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 4 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 183.000 - 208.000 m
Azimuth: 192.9
Inclination: -63.4

Printed: 2005-04-18 22:25:59
Scale: 1 : 25
Aspect: 150 %

Borehole: KLX05
Mapping: KLX05_JEPD_A

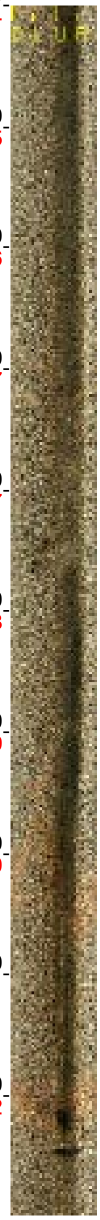
Depth range: 208.000 - 233.000 m
Azimuth: 194.2
Inclination: -63.4

Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 6 (37)

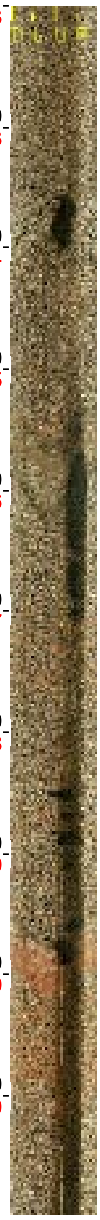
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 233.000 - 258.000 m
Azimuth: 195.7
Inclination: -63.7

233.000
233.114
233.500
233.615
234.000
234.116
234.500
234.617
235.000
235.117
235.500
235.618
236.000
236.119
236.500
236.620
237.000
237.121
237.500
237.622



238.000
238.123
238.500
238.623
239.000
239.124
239.500
239.625
240.000
240.126
240.500
240.627
241.000
241.128
241.500
241.629
242.000
242.129
242.500
242.630



243.000
243.131
243.500
243.632
244.000
244.133
244.500
244.634
245.000
245.135
245.500
245.635
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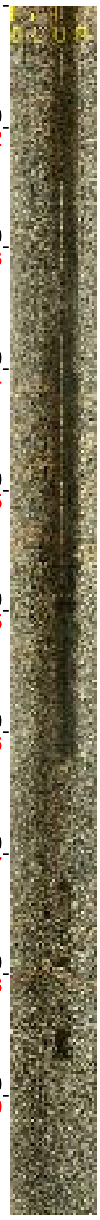
247.138
247.500
247.639



248.000
248.140
248.500
248.641
249.000
249.142
249.500
249.642
250.000
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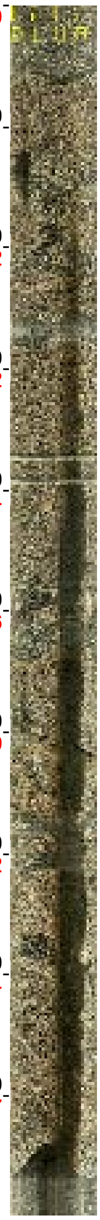
250.500
250.646
251.000
251.149
251.500
251.652
252.000
252.154
252.500
252.657



253.000
253.160
253.500
253.662
254.000
254.165
254.500
254.668
255.000
255.171
255.500
255.673
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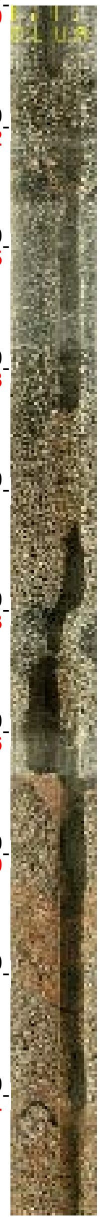
257.181
257.500
257.684

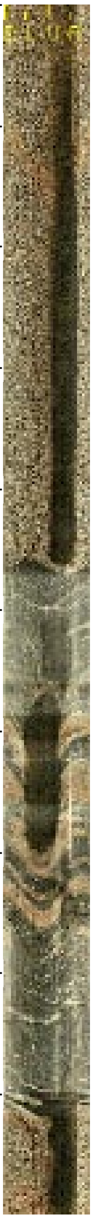


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 7 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 258.000 - 283.000 m
Azimuth: 197.9
Inclination: -63.6

258.000
258.187
258.500
258.689
259.000
259.192
259.500
259.695
260.000
260.197
260.500
260.700
261.000
261.203
261.500
261.705
262.000
262.208
262.500
262.711



263.000
263.213
263.500
263.716
264.000
264.219
264.500
264.721
265.000
265.224
265.500
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266.000
266.229
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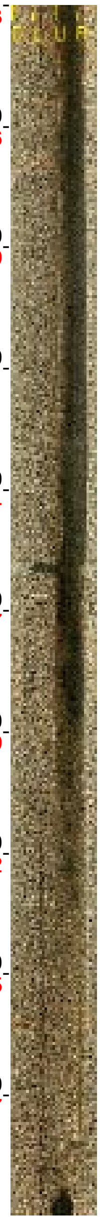
267.000
267.235
267.500
267.737



268.000
268.240
268.500
268.743
269.000
269.245
269.500
269.748
270.000
270.251
270.500
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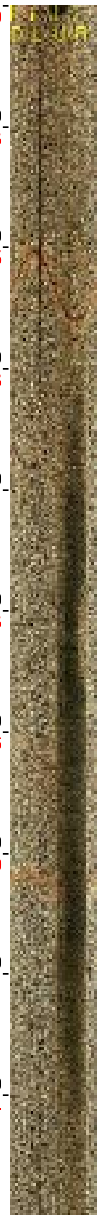
272.261
272.500
272.764



273.000
273.267
273.500
273.769
274.000
274.272
274.500
274.775
275.000
275.277
275.500
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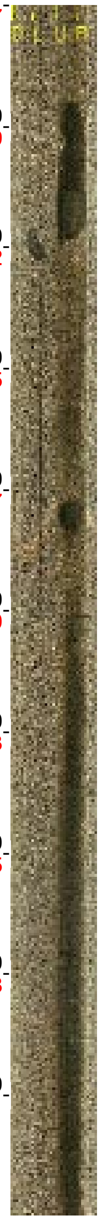
277.288
277.500
277.791



278.000
278.294
278.500
278.796
279.000
279.299
279.500
279.802
280.000
280.304
280.500
280.807
281.000
281.310
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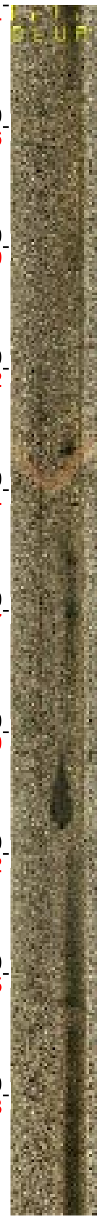
282.315
282.500
282.818

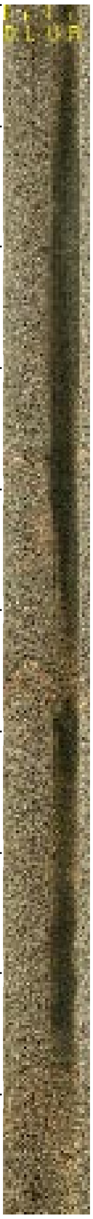


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 8 (37)

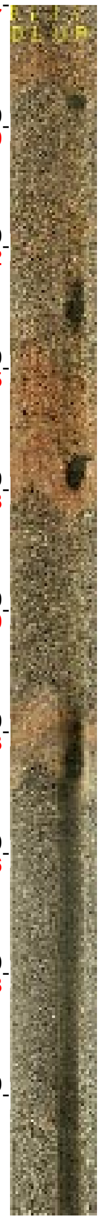
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 283.000 - 308.000 m
Azimuth: 199.5
Inclination: -64.0

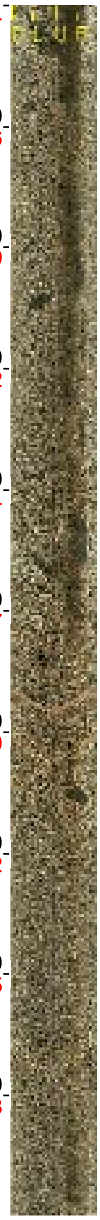
283.000 283.320
283.500 283.823
284.000 284.326
284.500 284.828
285.000 285.331
285.500 285.834
286.000 286.336
286.500 286.839
287.000 287.342
287.500 287.844



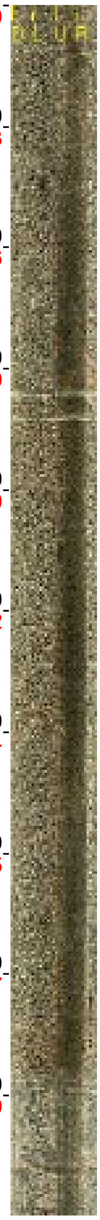
288.000 288.347
288.500 288.850
289.000 289.352
289.500 289.855
290.000 290.358
290.500 290.860
291.000 291.363
291.500 291.866
292.000 292.368
292.500 292.871



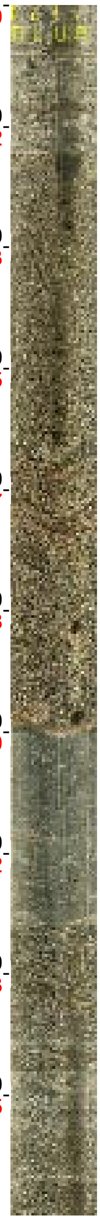
293.000 293.374
293.500 293.876
294.000 294.379
294.500 294.882
295.000 295.384
295.500 295.887
296.000 296.390
296.500 296.892
297.000 297.395
297.500 297.898



298.000 298.400
298.500 298.903
299.000 299.406
299.500 299.909
300.000 300.410
300.500 300.912
301.000 301.414
301.500 301.915
302.000 302.417
302.500 302.919



303.000 303.420
303.500 303.922
304.000 304.423
304.500 304.925
305.000 305.427
305.500 305.928
306.000 306.430
306.500 306.932
307.000 307.433
307.500 307.935



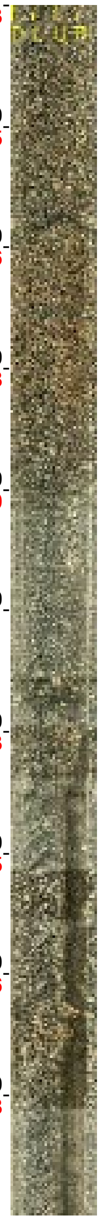
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 9 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 308.000 - 333.000 m
Azimuth: 201.1
Inclination: -64.2

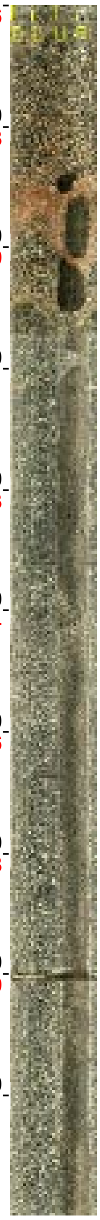
308.000
308.437
308.500
308.938
309.000
309.440
309.500
309.942
310.000
310.443
310.500
310.945
311.000
311.447
311.500
311.948
312.000
312.450
312.500
312.951

313.000
313.453
313.500
313.955
314.000
314.456
314.500
314.958
315.000
315.460
315.500
315.961
316.000
316.463
316.500
316.965
317.000
317.466
317.500
317.968

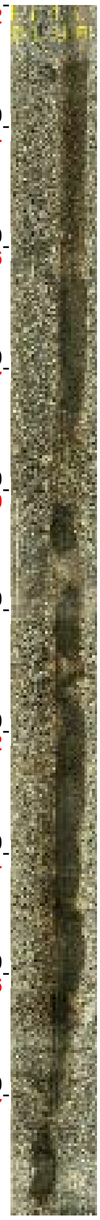


318.000
318.470
318.500
318.971
319.000
319.473
319.500
319.975
320.000
320.476
320.500
320.978
321.000
321.479
321.500
321.981
322.000
322.483
322.500
322.984

323.000
323.486
323.500
323.988
324.000
324.489
324.500
324.991
325.000
325.493
325.500
325.994
326.000
326.496
326.500
326.998
327.000
327.499
327.500
328.001



328.000
328.502
328.500
329.004
329.000
329.506
329.500
330.007
330.000
330.509
330.500
331.011
331.000
331.512
331.500
332.014
332.000
332.516
332.500
333.017

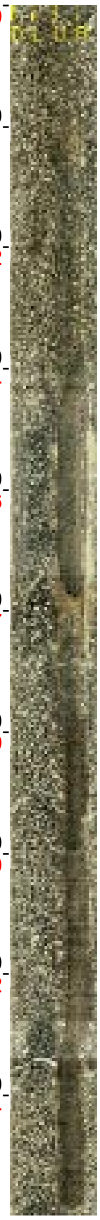


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 10 (37)

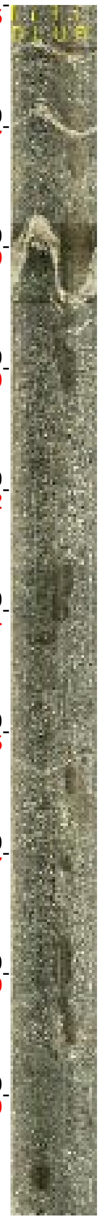
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 333.000 - 358.000 m
Azimuth: 203.2
Inclination: -64.4

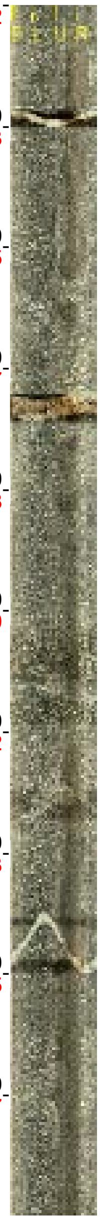
333.000
333.519
333.500
334.021
334.000
334.522
334.500
335.024
335.000
335.526
335.500
336.027
336.000
336.529
336.500
337.030
337.000
337.532
337.500
338.034



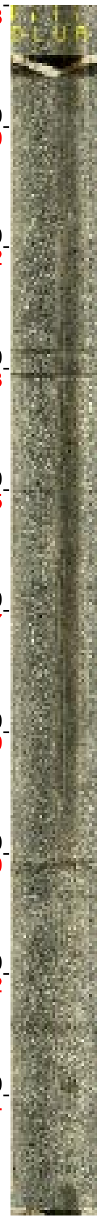
338.000
338.535
338.500
339.037
339.000
339.539
339.500
340.040
340.000
340.542
340.500
341.044
341.000
341.545
341.500
342.047
342.000
342.549
342.500
343.050



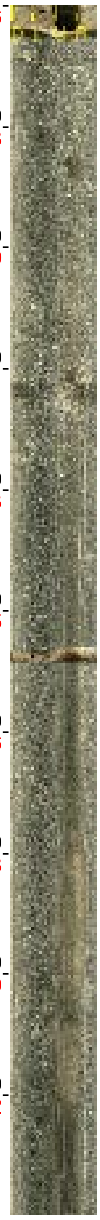
343.000
343.552
343.500
344.053
344.000
344.555
344.500
345.057
345.000
345.558
345.500
346.060
346.000
346.562
346.500
347.063
347.000
347.565
347.500
348.067



348.000
348.568
348.500
349.070
349.000
349.572
349.500
350.073
350.000
350.575
350.500
351.077
351.000
351.579
351.500
352.080
352.000
352.582
352.500
353.084



353.000
353.586
353.500
354.088
354.000
354.589
354.500
355.091
355.000
355.593
355.500
356.095
356.000
356.596
356.500
357.098
357.000
357.600
357.500
358.102



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 11 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

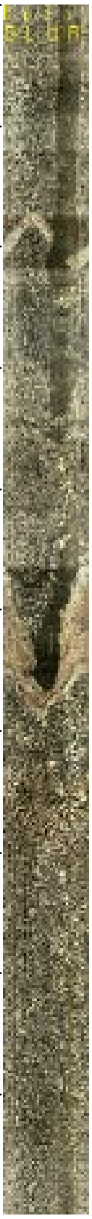
Depth range: 358.000 - 383.000 m
Azimuth: 205.0
Inclination: -64.3

Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 12 (37)

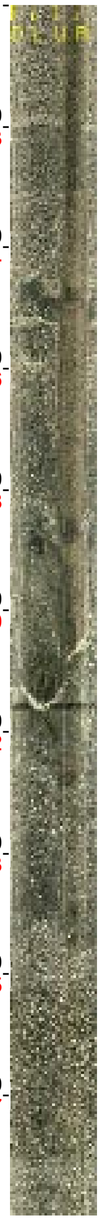
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 383.000 - 408.000 m
Azimuth: 206.4
Inclination: -64.7

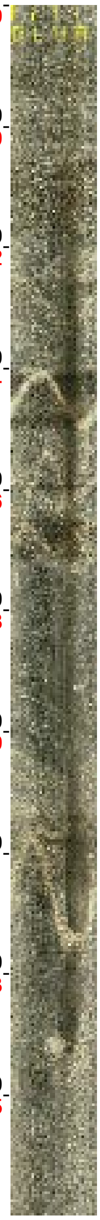
383.000
383.693
383.500
384.195
384.000
384.697
384.500
385.198
385.000
385.700
385.500
386.202
386.000
386.704
386.500
387.205
387.000
387.707
387.500
388.209



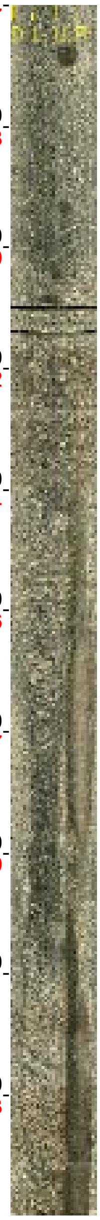
388.000
388.711
388.500
389.213
389.000
389.714
389.500
390.216
390.000
390.718
390.500
391.220
391.000
391.722
391.500
392.223
392.000
392.725
392.500
393.227



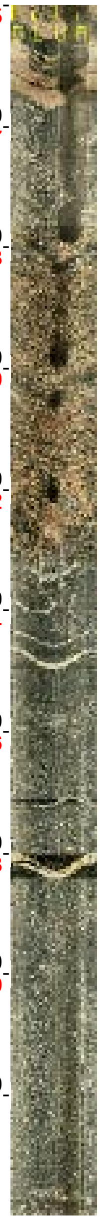
393.000
393.729
393.500
394.230
394.000
394.732
394.500
395.234
395.000
395.736
395.500
396.238
396.000
396.739
396.500
397.241
397.000
397.743
397.500
398.245



398.000
398.747
398.500
399.248
399.000
399.750
399.500
400.252
400.000
400.754
400.500
401.256
401.000
401.757
401.500
402.259
402.000
402.761
402.500
403.263



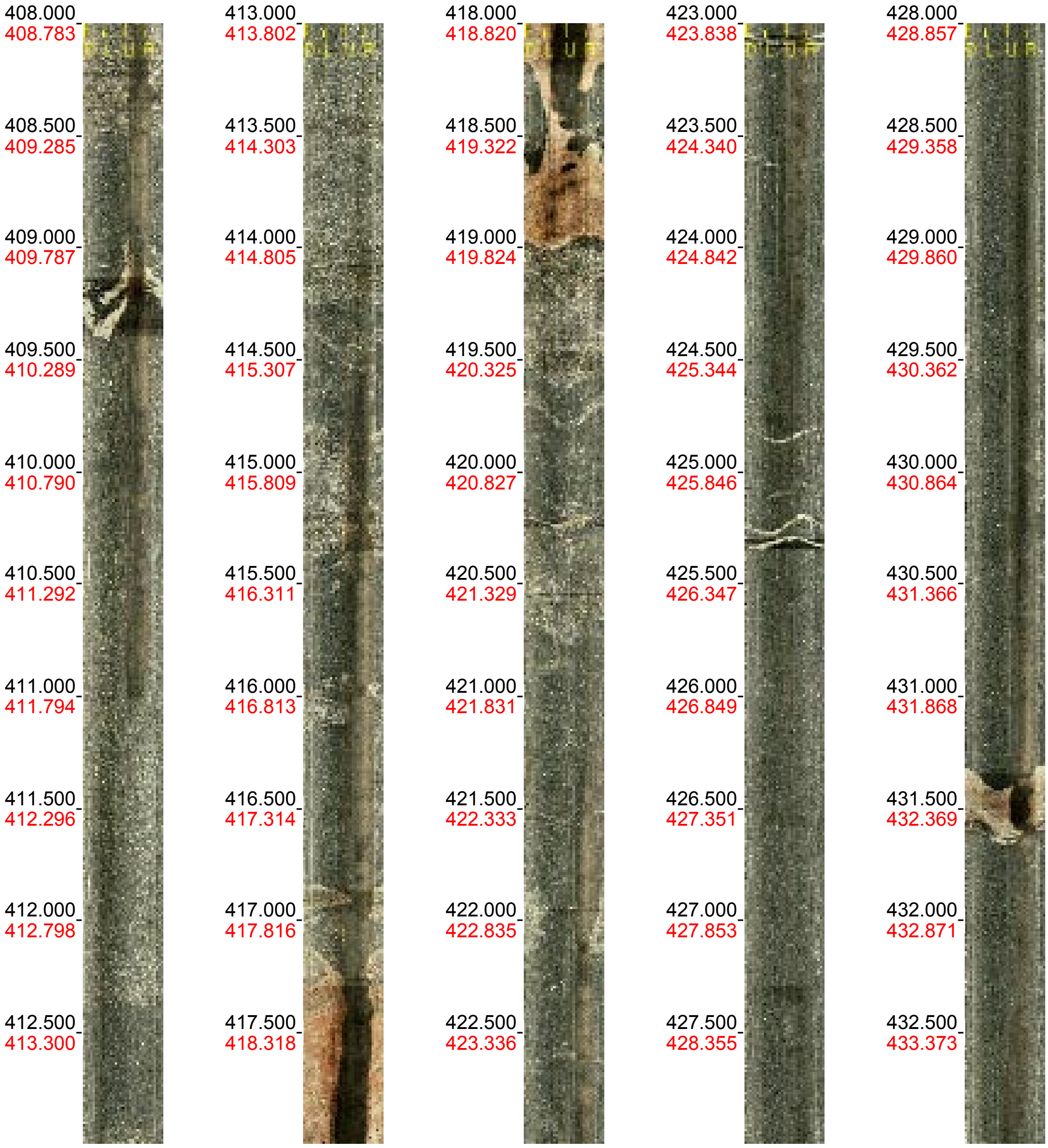
403.000
403.765
403.500
404.267
404.000
404.768
404.500
405.270
405.000
405.772
405.500
406.274
406.000
406.776
406.500
407.278
407.000
407.779
407.500
408.281



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 13 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 408.000 - 433.000 m
Azimuth: 208.4
Inclination: -64.6

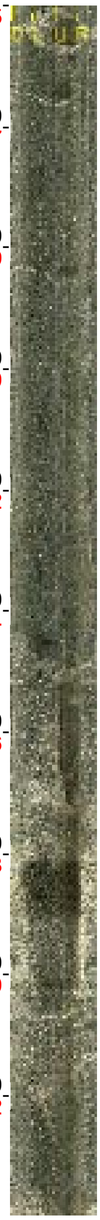


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 14 (37)

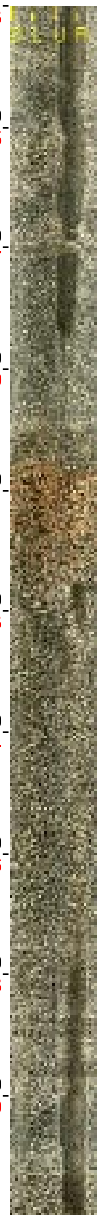
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 433.000 - 458.000 m
Azimuth: 210.6
Inclination: -64.8

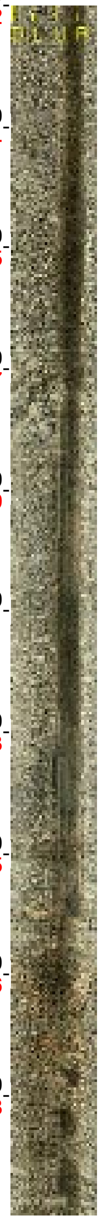
433.000
433.875
433.500
434.377
434.000
434.879
434.500
435.380
435.000
435.882
435.500
436.384
436.000
436.886
436.500
437.388
437.000
437.890
437.500
438.392



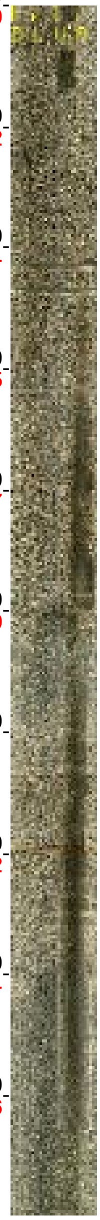
438.000
438.893
438.500
439.395
439.000
439.897
439.500
440.399
440.000
440.901
440.500
441.403
441.000
441.904
441.500
442.406
442.000
442.908
442.500
443.410



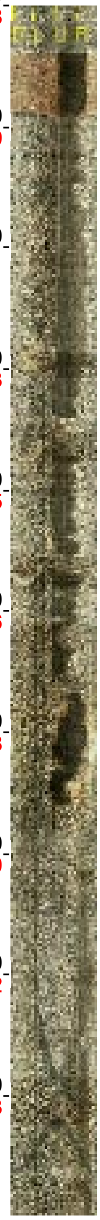
443.000
443.912
443.500
444.414
444.000
444.915
444.500
445.417
445.000
445.919
445.500
446.421
446.000
446.923
446.500
447.425
447.000
447.926
447.500
448.428



448.000
448.930
448.500
449.432
449.000
449.934
449.500
450.435
450.000
450.937
450.500
451.439
451.000
451.941
451.500
452.442
452.000
452.944
452.500
453.446



453.000
453.948
453.500
454.449
454.000
454.951
454.500
455.453
455.000
455.955
455.500
456.456
456.000
456.958
456.500
457.460
457.000
457.962
457.500
458.463

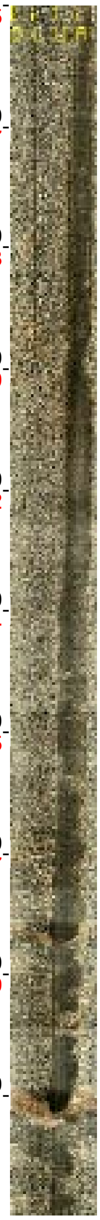


Printed: 2005-04-18 22:25:59   Scale: 1 : 25   Aspect: 150 %

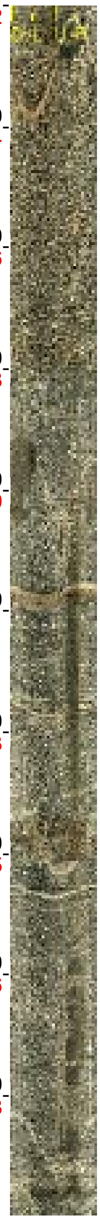
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 458.000 - 483.000 m
Azimuth: 212.3
Inclination: -64.5

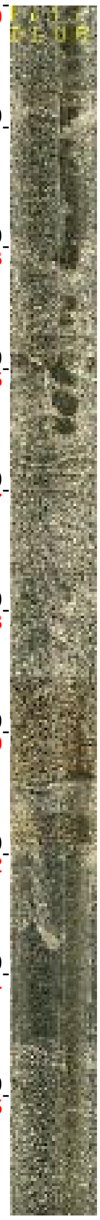
458.000
458.965
458.500
459.467
459.000
459.968
459.500
460.470
460.000
460.972
460.500
461.474
461.000
461.975
461.500
462.477
462.000
462.979
462.500
463.481



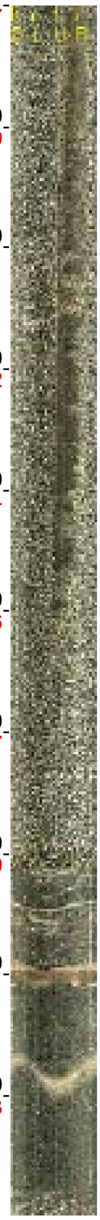
463.000
463.982
463.500
464.484
464.000
464.986
464.500
465.488
465.000
465.989
465.500
466.491
466.000
466.993
466.500
467.495
467.000
467.996
467.500
468.498



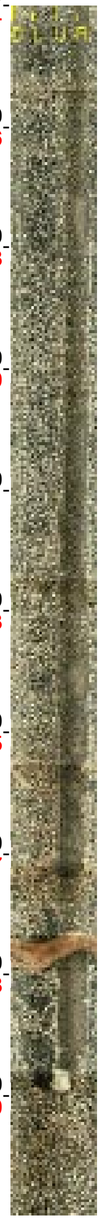
468.000
469.000
468.500
469.501
469.000
470.003
469.500
470.505
470.000
471.007
470.500
471.508
471.000
472.010
471.500
472.512
472.000
473.014
472.500
473.515



473.000
474.017
473.500
474.519
474.000
475.021
474.500
475.522
475.000
476.024
475.500
476.526
476.000
477.027
476.500
477.529
477.000
478.031
477.500
478.533



478.000
479.034
478.500
479.536
479.000
480.038
479.500
480.540
480.000
481.041
480.500
481.543
481.000
482.045
481.500
482.547
482.000
483.048
482.500
483.550

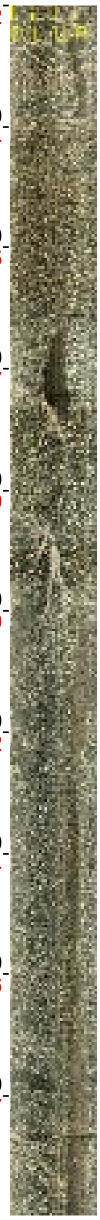


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 16 (37)

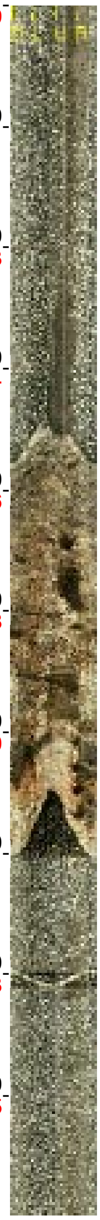
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 483.000 - 508.000 m
Azimuth: 214.2
Inclination: -64.7

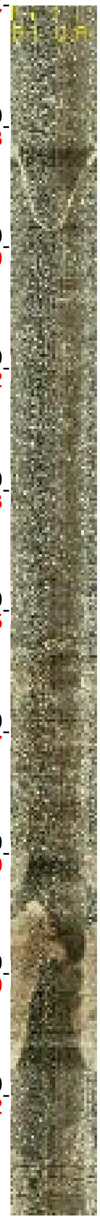
483.000 484.052
483.500 484.554
484.000 485.055
484.500 485.557
485.000 486.059
485.500 486.560
486.000 487.062
486.500 487.564
487.000 488.066
487.500 488.567



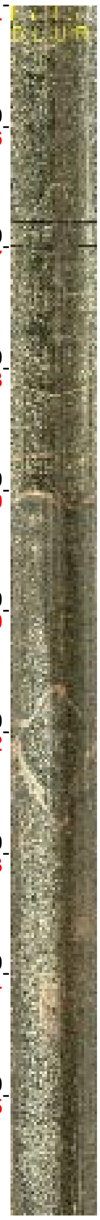
488.000 489.069
488.500 489.571
489.000 490.073
489.500 490.574
490.000 491.076
490.500 491.578
491.000 492.080
491.500 492.581
492.000 493.083
492.500 493.585



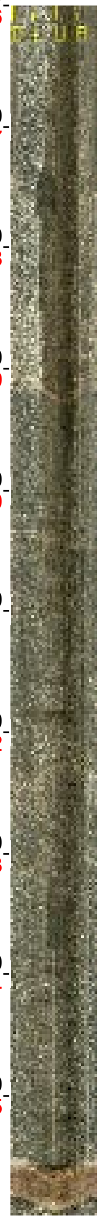
493.000 494.087
493.500 494.588
494.000 495.090
494.500 495.592
495.000 496.093
495.500 496.595
496.000 497.097
496.500 497.599
497.000 498.100
497.500 498.602



498.000 499.104
498.500 499.606
499.000 500.107
499.500 500.608
500.000 501.109
500.500 501.610
501.000 502.112
501.500 502.613
502.000 503.114
502.500 503.615



503.000 504.116
503.500 504.617
504.000 505.118
504.500 505.619
505.000 506.120
505.500 506.621
506.000 507.122
506.500 507.623
507.000 508.124
507.500 508.625



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 17 (37)

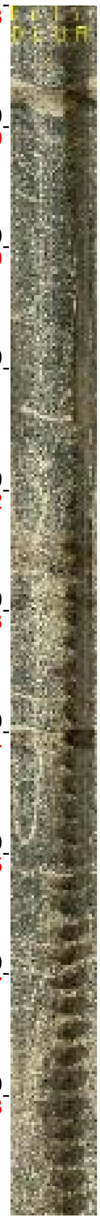
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 508.000 - 533.000 m
Azimuth: 215.3
Inclination: -64.3

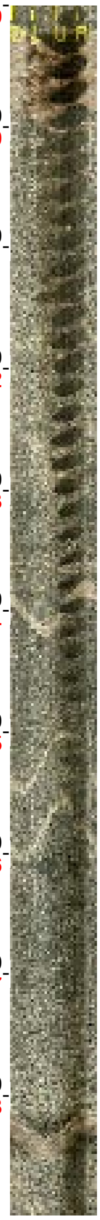
508.000
509.127
508.500
509.628
509.000
510.129
509.500
510.630
510.000
511.131
510.500
511.632
511.000
512.133
511.500
512.634
512.000
513.135
512.500
513.636

513.000
514.137
513.500
514.638
514.000
515.139
514.500
515.640
515.000
516.142
515.500
516.643
516.000
517.144
516.500
517.645
517.000
518.146
517.500
518.647

518.000
519.148
518.500
519.649
519.000
520.150
519.500
520.651
520.000
521.152
520.500
521.653
521.000
522.154
521.500
522.655
522.000
523.157
522.500
523.658



523.000
524.159
523.500
524.660
524.000
525.161
524.500
525.662
525.000
526.163
525.500
526.664
526.000
527.165
526.500
527.666
527.000
528.167
527.500
528.668



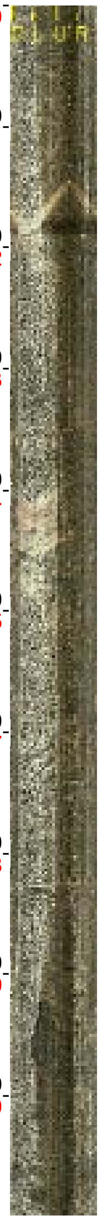
528.000
529.169
528.500
529.670
529.000
530.172
529.500
530.673
530.000
531.174
530.500
531.675
531.000
532.176
531.500
532.677
532.000
533.178
532.500
533.679

Printed: 2005-04-18 22:25:59   Scale: 1 : 25   Aspect: 150 %   18 (37)

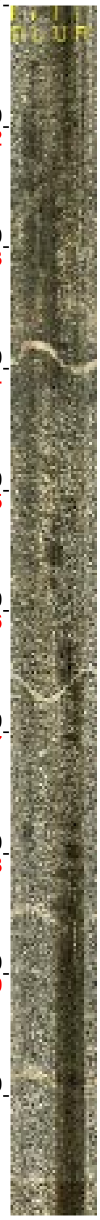
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 533.000 - 558.000 m
Azimuth: 215.9
Inclination: -64.4

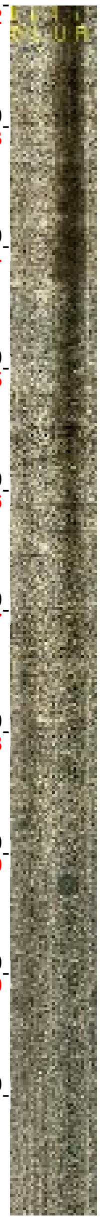
533.000 534.180
533.500 534.681
534.000 535.182
534.500 535.683
535.000 536.184
535.500 536.685
536.000 537.187
536.500 537.688
537.000 538.189
537.500 538.690



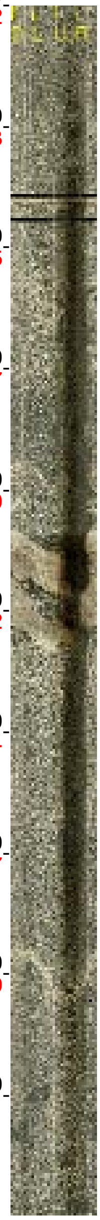
538.000 539.191
538.500 539.692
539.000 540.193
539.500 540.694
540.000 541.195
540.500 541.696
541.000 542.197
541.500 542.698
542.000 543.199
542.500 543.701



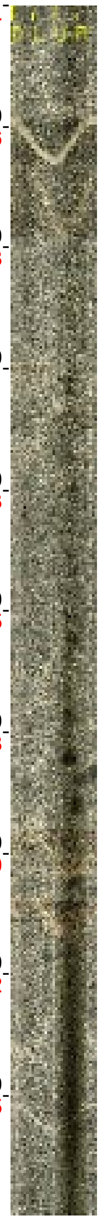
543.000 544.202
543.500 544.703
544.000 545.204
544.500 545.705
545.000 546.206
545.500 546.707
546.000 547.208
546.500 547.709
547.000 548.210
547.500 548.711



548.000 549.212
548.500 549.713
549.000 550.215
549.500 550.717
550.000 551.220
550.500 551.722
551.000 552.224
551.500 552.727
552.000 553.229
552.500 553.731



553.000 554.234
553.500 554.736
554.000 555.238
554.500 555.741
555.000 556.243
555.500 556.745
556.000 557.248
556.500 557.750
557.000 558.252
557.500 558.755

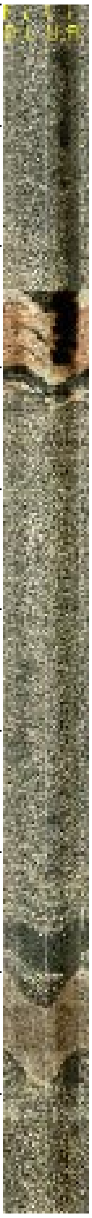


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 19 (37)

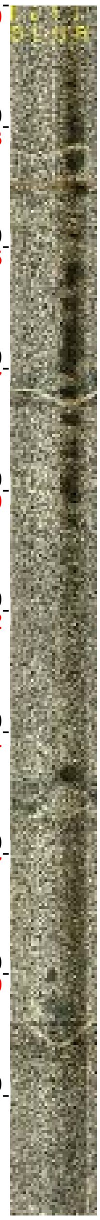
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 558.000 - 583.000 m
Azimuth: 216.0
Inclination: -64.1

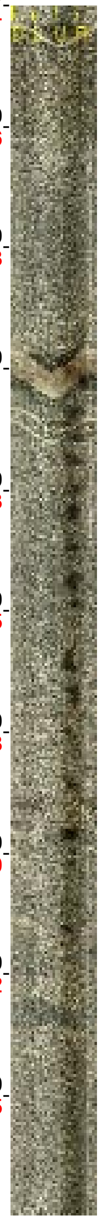
558.000 559.257
558.500 559.759
559.000 560.262
559.500 560.764
560.000 561.266
560.500 561.769
561.000 562.271
561.500 562.773
562.000 563.276
562.500 563.778



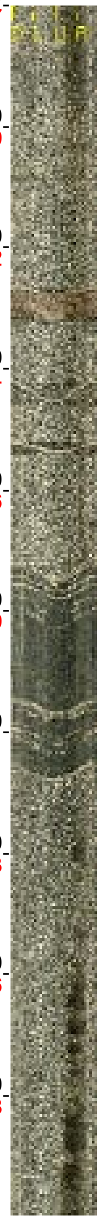
563.000 564.280
563.500 564.783
564.000 565.285
564.500 565.787
565.000 566.290
565.500 566.792
566.000 567.294
566.500 567.797
567.000 568.299
567.500 568.801



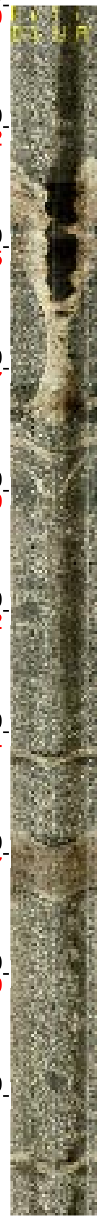
568.000 569.304
568.500 569.806
569.000 570.308
569.500 570.811
570.000 571.313
570.500 571.815
571.000 572.318
571.500 572.820
572.000 573.322
572.500 573.825



573.000 574.327
573.500 574.829
574.000 575.332
574.500 575.834
575.000 576.336
575.500 576.839
576.000 577.341
576.500 577.843
577.000 578.346
577.500 578.848



578.000 579.350
578.500 579.852
579.000 580.355
579.500 580.857
580.000 581.359
580.500 581.862
581.000 582.364
581.500 582.867
582.000 583.369
582.500 583.871

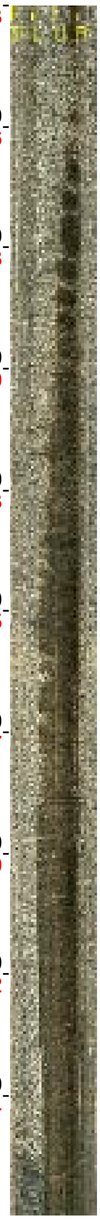


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 20 (37)

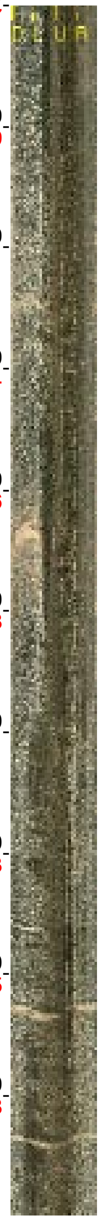
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 583.000 - 608.000 m
Azimuth: 217.8
Inclination: -64.2

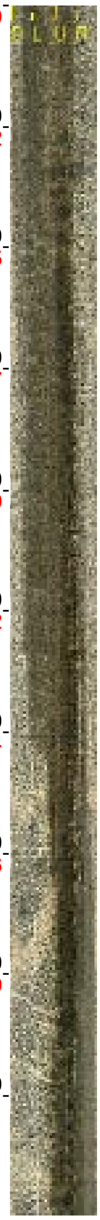
583.000
584.373
583.500
584.876
584.000
585.378
584.500
585.880
585.000
586.383
585.500
586.885
586.000
587.387
586.500
587.890
587.000
588.392
587.500
588.894



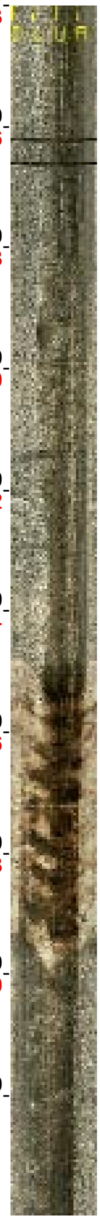
588.000
589.397
588.500
589.899
589.000
590.401
589.500
590.904
590.000
591.406
590.500
591.908
591.000
592.411
591.500
592.913
592.000
593.415
592.500
593.918



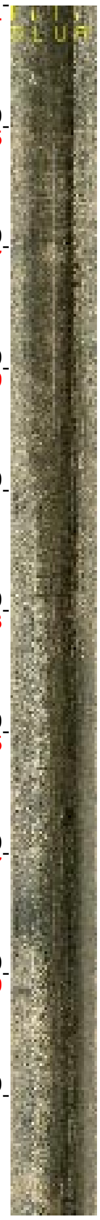
593.000
594.420
593.500
594.922
594.000
595.425
594.500
595.927
595.000
596.429
595.500
596.932
596.000
597.434
596.500
597.936
597.000
598.439
597.500
598.941



598.000
599.443
598.500
599.946
599.000
600.448
599.500
600.950
600.000
601.452
600.500
601.954
601.000
602.456
601.500
602.958
602.000
603.460
602.500
603.961



603.000
604.464
603.500
604.965
604.000
605.467
604.500
605.969
605.000
606.471
605.500
606.973
606.000
607.475
606.500
607.977
607.000
608.479
607.500
608.981

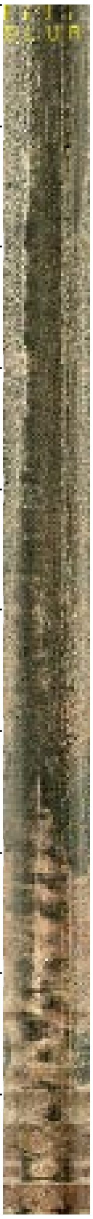
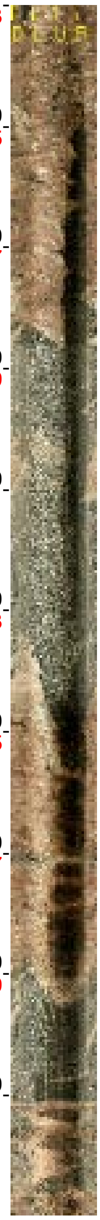


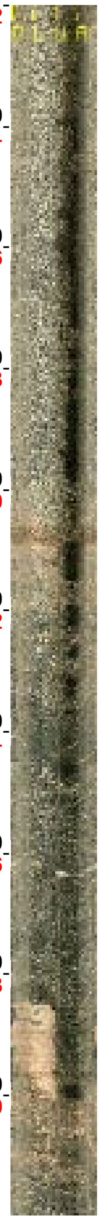
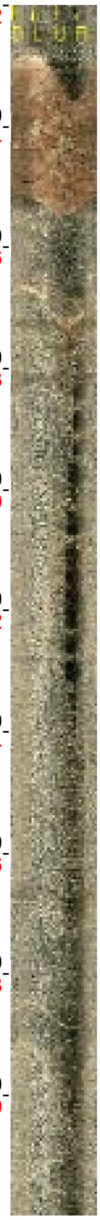
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 21 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 608.000 - 633.000 m
Azimuth: 215.6
Inclination: -64.2

608.000	613.000	618.000	623.000	628.000
609.483	614.503	619.523	624.542	629.562
608.500	613.500	618.500	623.500	628.500
609.985	615.005	620.024	625.044	630.064
609.000	614.000	619.000	624.000	629.000
610.487	615.507	620.526	625.546	630.566
609.500	614.500	619.500	624.500	629.500
610.989	616.009	621.028	626.048	631.068
610.000	615.000	620.000	625.000	630.000
611.491	616.511	621.530	626.550	631.570
610.500	615.500	620.500	625.500	630.500
611.993	617.013	622.032	627.052	632.072
611.000	616.000	621.000	626.000	631.000
612.495	617.515	622.534	627.554	632.574
611.500	616.500	621.500	626.500	631.500
612.997	618.017	623.036	628.056	633.076
612.000	617.000	622.000	627.000	632.000
613.499	618.519	623.538	628.558	633.578
612.500	617.500	622.500	627.500	632.500
614.001	619.021	624.040	629.060	634.080

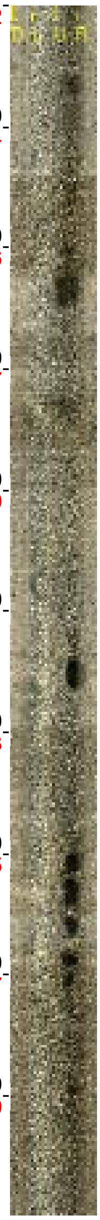



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 22 (37)

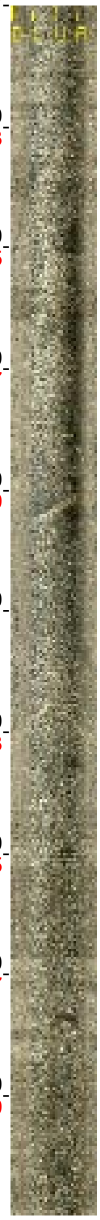
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 633.000 - 658.000 m
Azimuth: 215.6
Inclination: -64.2

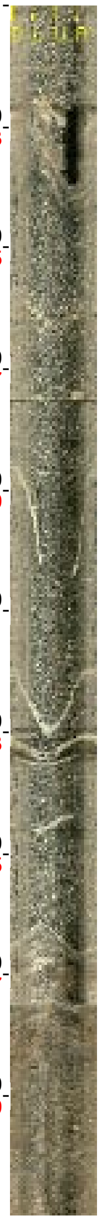
633.000 634.582
633.500 635.084
634.000 635.586
634.500 636.087
635.000 636.589
635.500 637.091
636.000 637.593
636.500 638.095
637.000 638.597
637.500 639.099



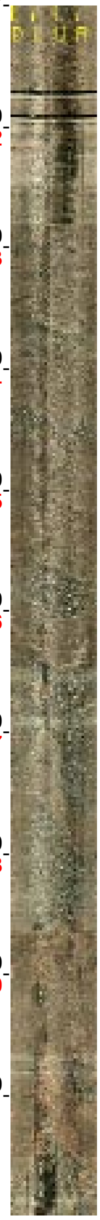
638.000 639.601
638.500 640.103
639.000 640.605
639.500 641.107
640.000 641.609
640.500 642.111
641.000 642.613
641.500 643.115
642.000 643.617
642.500 644.119



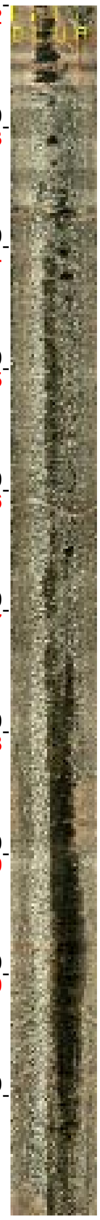
643.000 644.621
643.500 645.123
644.000 645.625
644.500 646.127
645.000 646.629
645.500 647.131
646.000 647.633
646.500 648.135
647.000 648.637
647.500 649.139



648.000 649.641
648.500 650.142
649.000 650.643
649.500 651.144
650.000 651.645
650.500 652.146
651.000 652.647
651.500 653.148
652.000 653.650
652.500 654.151



653.000 654.652
653.500 655.153
654.000 655.654
654.500 656.155
655.000 656.656
655.500 657.157
656.000 657.658
656.500 658.159
657.000 658.660
657.500 659.161



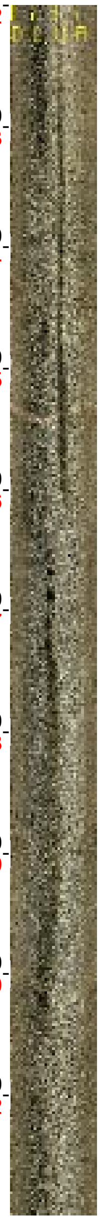
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 23 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

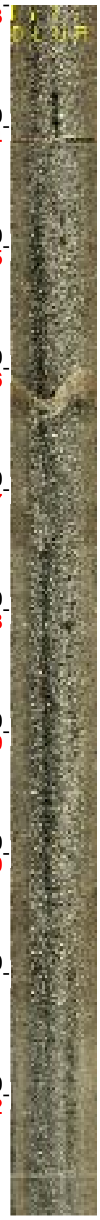
Depth range: 658.000 - 683.000 m
Azimuth: 217.9
Inclination: -64.0

658.000 / 659.662
658.500 / 660.163
659.000 / 660.664
659.500 / 661.165
660.000 / 661.666
660.500 / 662.167
661.000 / 662.668
661.500 / 663.169
662.000 / 663.670
662.500 / 664.171

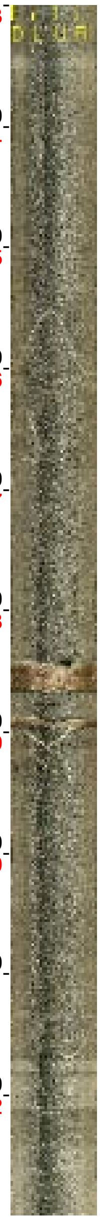
663.000 / 664.672
663.500 / 665.173
664.000 / 665.674
664.500 / 666.175
665.000 / 666.676
665.500 / 667.177
666.000 / 667.678
666.500 / 668.179
667.000 / 668.680
667.500 / 669.182



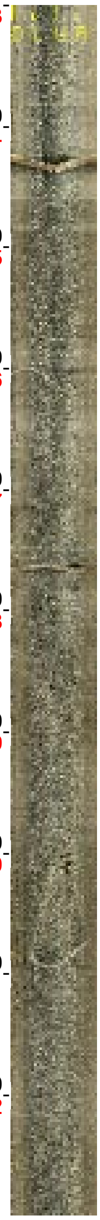
668.000 / 669.683
668.500 / 670.184
669.000 / 670.685
669.500 / 671.186
670.000 / 671.687
670.500 / 672.188
671.000 / 672.689
671.500 / 673.190
672.000 / 673.691
672.500 / 674.192



673.000 / 674.693
673.500 / 675.194
674.000 / 675.695
674.500 / 676.196
675.000 / 676.697
675.500 / 677.198
676.000 / 677.699
676.500 / 678.200
677.000 / 678.701
677.500 / 679.202



678.000 / 679.703
678.500 / 680.204
679.000 / 680.705
679.500 / 681.206
680.000 / 681.707
680.500 / 682.208
681.000 / 682.709
681.500 / 683.210
682.000 / 683.711
682.500 / 684.212

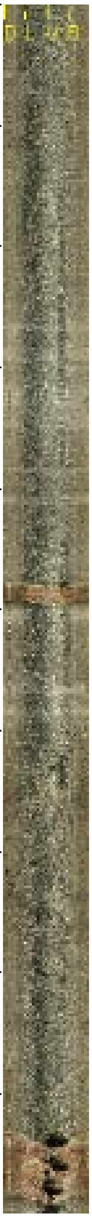


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 24 (37)

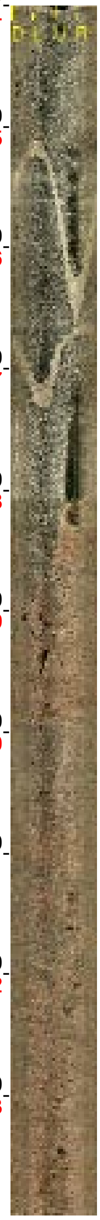
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 683.000 - 708.000 m
Azimuth: 215.7
Inclination: -63.1

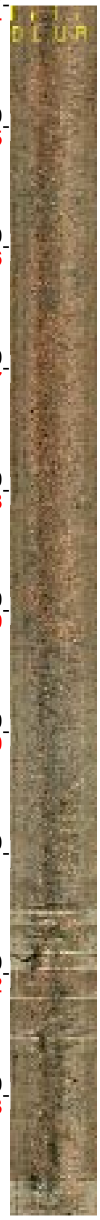
683.000
684.714
683.500
685.215
684.000
685.716
684.500
686.217
685.000
686.718
685.500
687.219
686.000
687.720
686.500
688.221
687.000
688.722
687.500
689.223



688.000
689.724
688.500
690.225
689.000
690.726
689.500
691.227
690.000
691.728
690.500
692.229
691.000
692.730
691.500
693.231
692.000
693.732
692.500
694.233



693.000
694.734
693.500
695.235
694.000
695.736
694.500
696.237
695.000
696.738
695.500
697.239
696.000
697.740
696.500
698.241
697.000
698.742
697.500
699.243



698.000
699.744
698.500
700.247
699.000
700.750
699.500
701.254
700.000
701.757
700.500
702.261
701.000
702.764
701.500
703.268
702.000
703.771
702.500
704.275

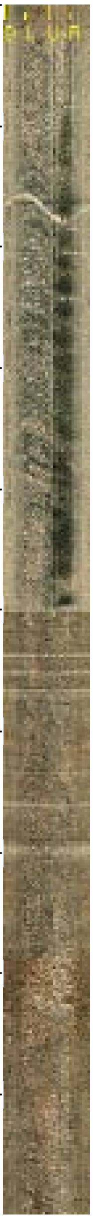
703.000
704.778
703.500
705.282
704.000
705.785
704.500
706.289
705.000
706.792
705.500
707.296
706.000
707.799
706.500
708.303
707.000
708.806
707.500
709.310

Printed: 2005-04-18 22:25:59   Scale: 1 : 25   Aspect: 150 %   25 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

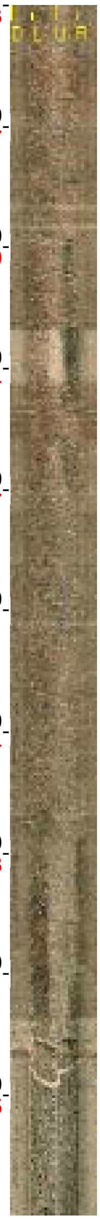
Depth range: 708.000 - 733.000 m
Azimuth: 217.2
Inclination: -63.2

708.000 709.813
708.500 710.317
709.000 710.820
709.500 711.324
710.000 711.827
710.500 712.331
711.000 712.834
711.500 713.338
712.000 713.841
712.500 714.345

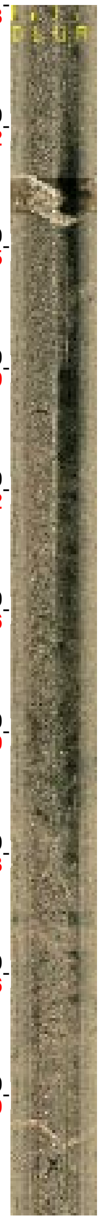


713.000 714.848
713.500 715.352
714.000 715.855
714.500 716.359
715.000 716.862
715.500 717.366
716.000 717.869
716.500 718.373
717.000 718.876
717.500 719.380

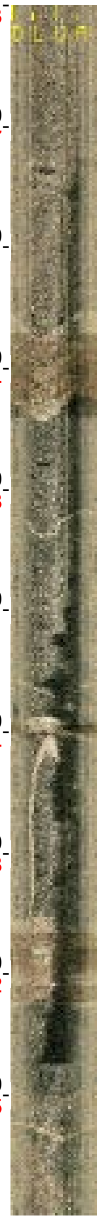
718.000 719.883
718.500 720.387
719.000 720.890
719.500 721.394
720.000 721.897
720.500 722.401
721.000 722.904
721.500 723.408
722.000 723.911
722.500 724.415



723.000 724.918
723.500 725.422
724.000 725.925
724.500 726.429
725.000 726.932
725.500 727.436
726.000 727.939
726.500 728.443
727.000 728.946
727.500 729.450



728.000 729.953
728.500 730.457
729.000 730.961
729.500 731.464
730.000 731.968
730.500 732.471
731.000 732.974
731.500 733.478
732.000 733.982
732.500 734.485

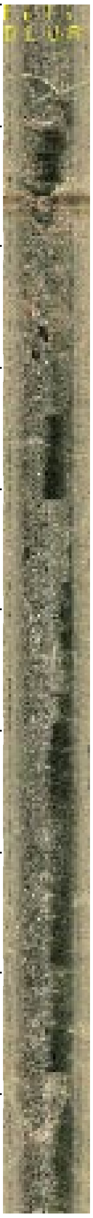


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 26 (37)

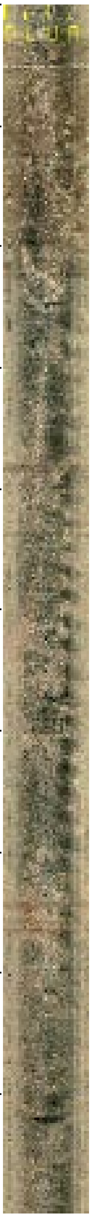
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 733.000 - 758.000 m
Azimuth: 218.7
Inclination: -63.4

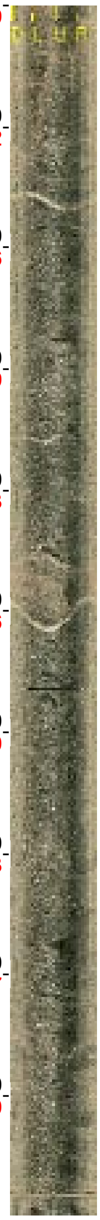
733.000 734.989
733.500 735.492
734.000 735.996
734.500 736.499
735.000 737.003
735.500 737.506
736.000 738.010
736.500 738.513
737.000 739.017
737.500 739.520



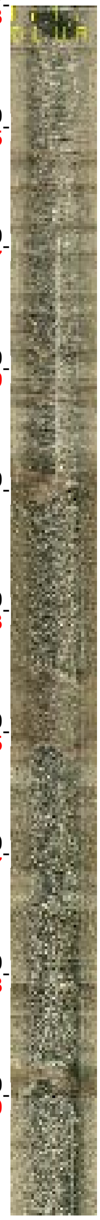
738.000 740.024
738.500 740.527
739.000 741.031
739.500 741.534
740.000 742.038
740.500 742.541
741.000 743.045
741.500 743.548
742.000 744.052
742.500 744.555



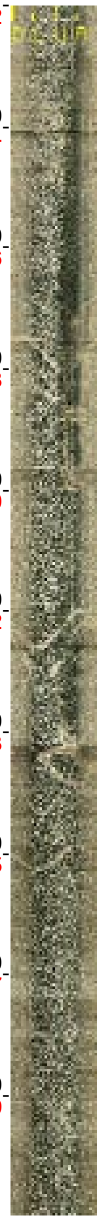
743.000 745.059
743.500 745.562
744.000 746.066
744.500 746.569
745.000 747.073
745.500 747.576
746.000 748.080
746.500 748.583
747.000 749.087
747.500 749.590



748.000 750.093
748.500 750.595
749.000 751.097
749.500 751.599
750.000 752.101
750.500 752.603
751.000 753.105
751.500 753.607
752.000 754.108
752.500 754.610



753.000 755.112
753.500 755.614
754.000 756.116
754.500 756.618
755.000 757.120
755.500 757.622
756.000 758.123
756.500 758.625
757.000 759.127
757.500 759.629

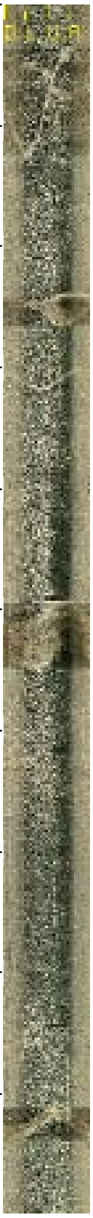


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 27 (37)

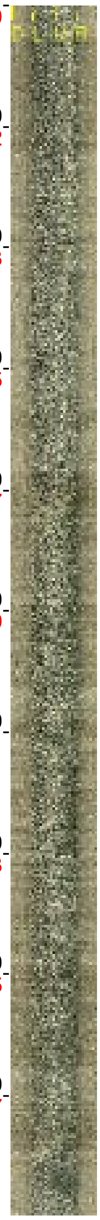
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 758.000 - 783.000 m
Azimuth: 220.5
Inclination: -63.2

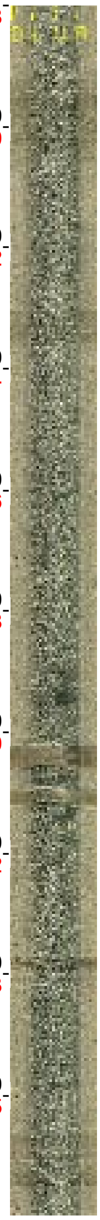
758.000 760.131
758.500 760.633
759.000 761.135
759.500 761.637
760.000 762.138
760.500 762.640
761.000 763.142
761.500 763.644
762.000 764.146
762.500 764.648



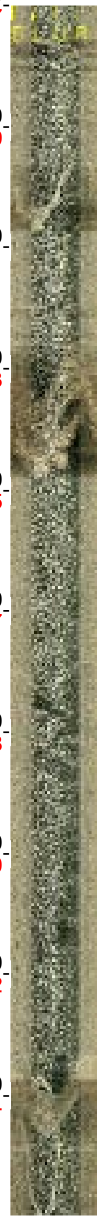
763.000 765.150
763.500 765.652
764.000 766.153
764.500 766.655
765.000 767.157
765.500 767.659
766.000 768.161
766.500 768.663
767.000 769.165
767.500 769.667



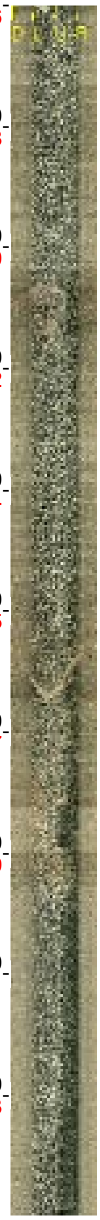
768.000 770.168
768.500 770.670
769.000 771.172
769.500 771.674
770.000 772.176
770.500 772.678
771.000 773.180
771.500 773.682
772.000 774.183
772.500 774.685



773.000 775.187
773.500 775.689
774.000 776.191
774.500 776.693
775.000 777.195
775.500 777.697
776.000 778.198
776.500 778.700
777.000 779.202
777.500 779.704



778.000 780.206
778.500 780.708
779.000 781.210
779.500 781.712
780.000 782.214
780.500 782.715
781.000 783.217
781.500 783.719
782.000 784.221
782.500 784.723



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 28 (37)

Borehole: KLX05

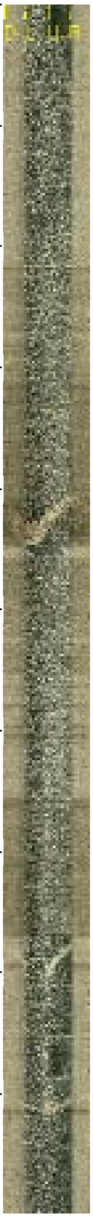
Mapping: KLX05_JEPD_A

Depth range: 783.000 - 808.000 m

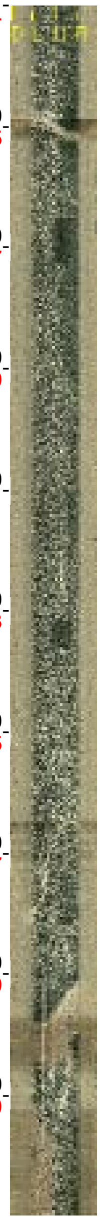
Azimuth: 222.9

Inclination: -63.2

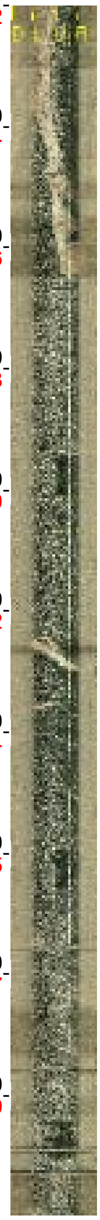
783.000	785.225
783.500	785.727
784.000	786.229
784.500	786.730
785.000	787.232
785.500	787.734
786.000	788.236
786.500	788.738
787.000	789.240
787.500	789.742



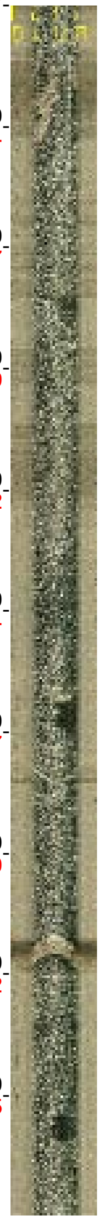
788.000	790.244
788.500	790.745
789.000	791.247
789.500	791.749
790.000	792.251
790.500	792.753
791.000	793.255
791.500	793.757
792.000	794.259
792.500	794.760



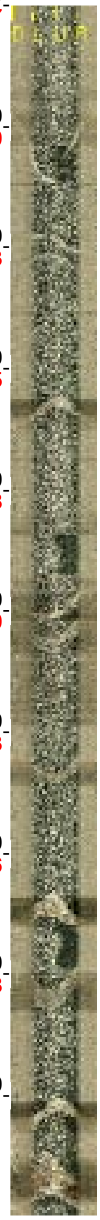
793.000	795.262
793.500	795.764
794.000	796.266
794.500	796.768
795.000	797.270
795.500	797.772
796.000	798.274
796.500	798.775
797.000	799.277
797.500	799.779



798.000	800.281
798.500	800.784
799.000	801.287
799.500	801.789
800.000	802.292
800.500	802.794
801.000	803.297
801.500	803.800
802.000	804.302
802.500	804.805



803.000	805.307
803.500	805.810
804.000	806.313
804.500	806.815
805.000	807.318
805.500	807.820
806.000	808.323
806.500	808.826
807.000	809.328
807.500	809.831

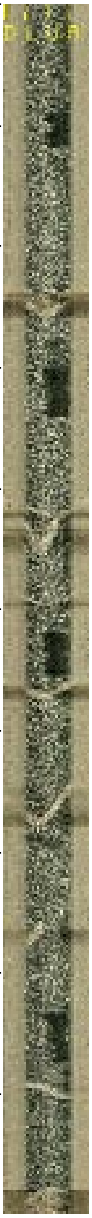


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 29 (37)

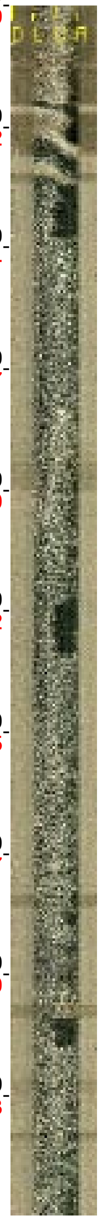
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 808.000 - 833.000 m
Azimuth: 224.4
Inclination: -63.4

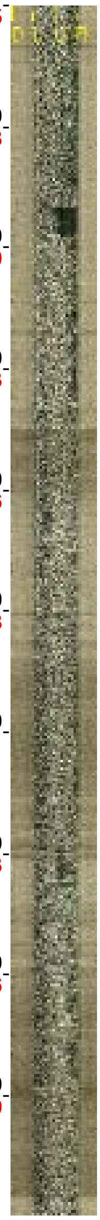
808.000
810.333
808.500
810.836
809.000
811.339
809.500
811.841
810.000
812.344
810.500
812.846
811.000
813.349
811.500
813.852
812.000
814.354
812.500
814.857



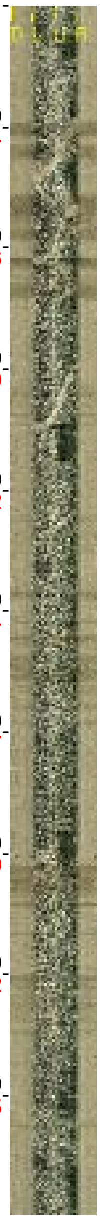
813.000
815.359
813.500
815.862
814.000
816.364
814.500
816.867
815.000
817.370
815.500
817.872
816.000
818.375
816.500
818.877
817.000
819.380
817.500
819.883



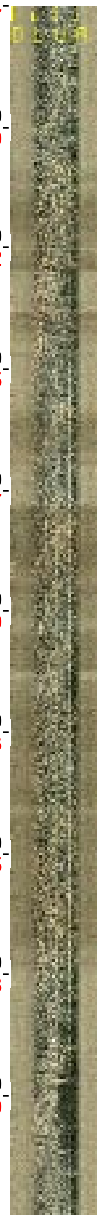
818.000
820.385
818.500
820.888
819.000
821.390
819.500
821.893
820.000
822.396
820.500
822.898
821.000
823.401
821.500
823.903
822.000
824.406
822.500
824.909



823.000
825.411
823.500
825.914
824.000
826.416
824.500
826.919
825.000
827.422
825.500
827.924
826.000
828.427
826.500
828.929
827.000
829.432
827.500
829.935



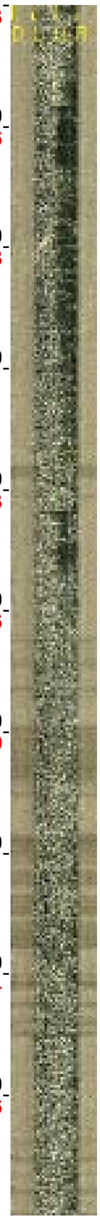
828.000
830.437
828.500
830.940
829.000
831.442
829.500
831.945
830.000
832.447
830.500
832.950
831.000
833.453
831.500
833.955
832.000
834.458
832.500
834.960

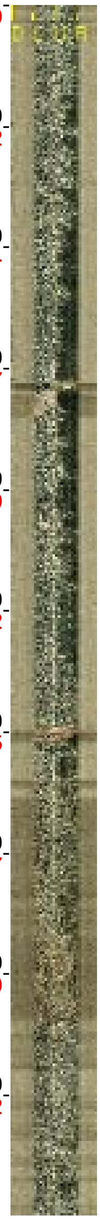


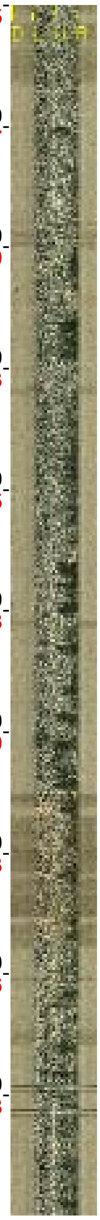
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 30 (37)

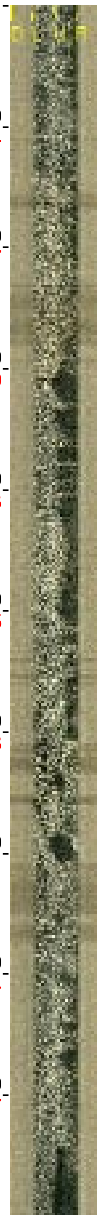
Borehole: KLX05
Mapping: KLX05_JEPD_A

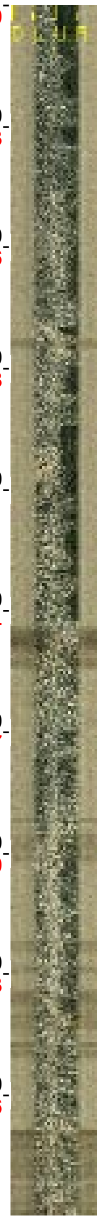
Depth range: 833.000 - 858.000 m
Azimuth: 225.9
Inclination: -63.8









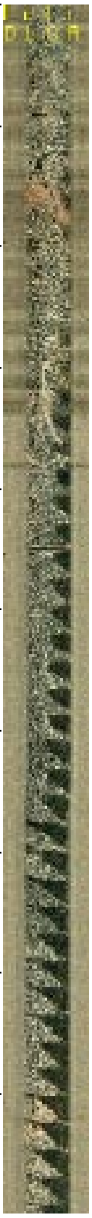


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 31 (37)

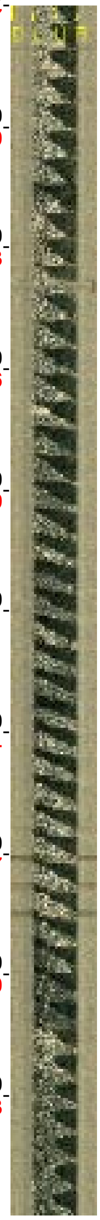
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 858.000 - 883.000 m
Azimuth: 227.8
Inclination: -63.8

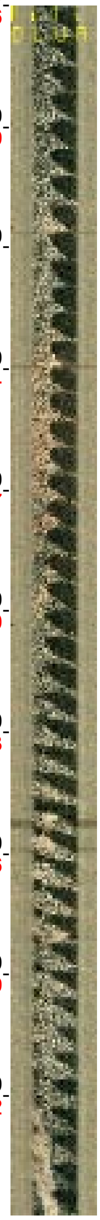
858.000
860.598
858.500
861.101
859.000
861.604
859.500
862.107
860.000
862.610
860.500
863.113
861.000
863.616
861.500
864.118
862.000
864.621
862.500
865.124



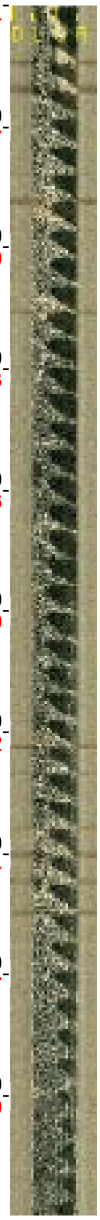
863.000
865.627
863.500
866.130
864.000
866.633
864.500
867.136
865.000
867.639
865.500
868.141
866.000
868.644
866.500
869.147
867.000
869.650
867.500
870.153



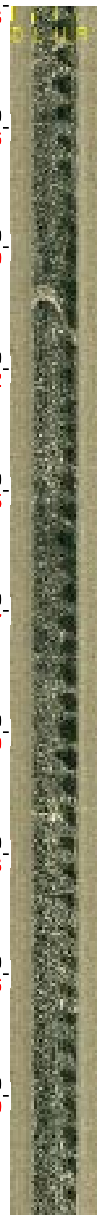
868.000
870.656
868.500
871.159
869.000
871.661
869.500
872.164
870.000
872.667
870.500
873.170
871.000
873.673
871.500
874.176
872.000
874.679
872.500
875.182



873.000
875.684
873.500
876.187
874.000
876.690
874.500
877.193
875.000
877.696
875.500
878.199
876.000
878.702
876.500
879.204
877.000
879.707
877.500
880.210



878.000
880.713
878.500
881.216
879.000
881.719
879.500
882.222
880.000
882.725
880.500
883.227
881.000
883.730
881.500
884.233
882.000
884.736
882.500
885.239



Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 32 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 883.000 - 908.000 m
Azimuth: 229.3
Inclination: -63.6

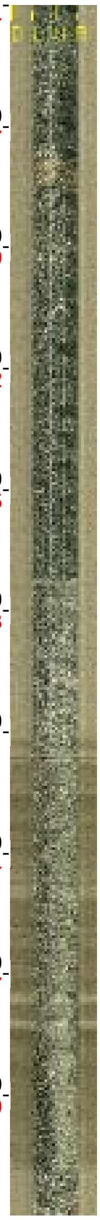
Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 33 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

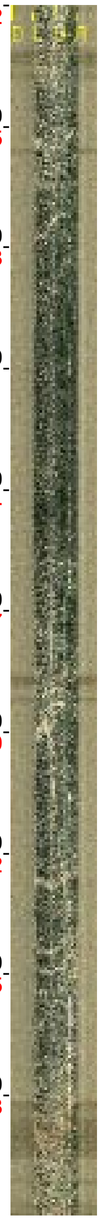
Depth range: 908.000 - 933.000 m
Azimuth: 230.7
Inclination: -63.5

908.000
910.885
908.500
911.388
909.000
911.891
909.500
912.394
910.000
912.896
910.500
913.399
911.000
913.902
911.500
914.405
912.000
914.908
912.500
915.411

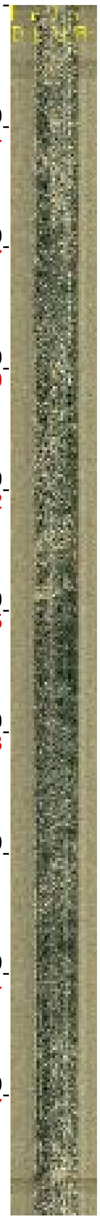
913.000
915.914
913.500
916.417
914.000
916.919
914.500
917.422
915.000
917.925
915.500
918.428
916.000
918.931
916.500
919.434
917.000
919.937
917.500
920.440



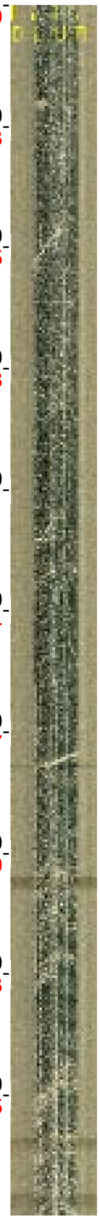
918.000
920.942
918.500
921.445
919.000
921.948
919.500
922.451
920.000
922.954
920.500
923.457
921.000
923.960
921.500
924.462
922.000
924.965
922.500
925.468



923.000
925.971
923.500
926.474
924.000
926.977
924.500
927.480
925.000
927.982
925.500
928.485
926.000
928.988
926.500
929.491
927.000
929.994
927.500
930.497



928.000
931.000
928.500
931.503
929.000
932.005
929.500
932.508
930.000
933.011
930.500
933.514
931.000
934.017
931.500
934.520
932.000
935.023
932.500
935.525

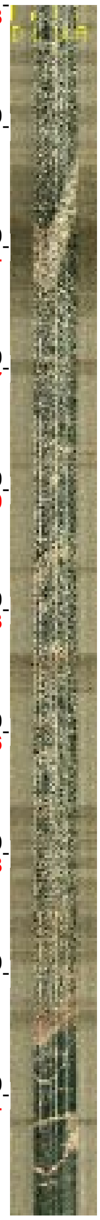


Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 34 (37)

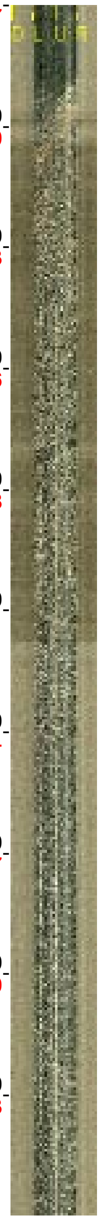
Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 933.000 - 958.000 m
Azimuth: 233.5
Inclination: -63.3

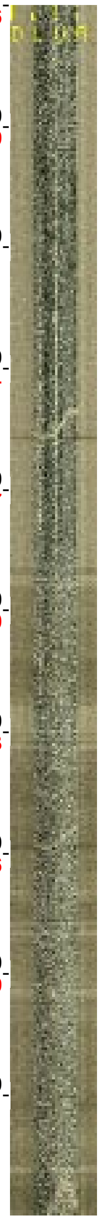
933.000
936.028
933.500
936.531
934.000
937.034
934.500
937.537
935.000
938.040
935.500
938.543
936.000
939.046
936.500
939.548
937.000
940.051
937.500
940.554



938.000
941.057
938.500
941.560
939.000
942.063
939.500
942.566
940.000
943.068
940.500
943.571
941.000
944.074
941.500
944.577
942.000
945.080
942.500
945.583



943.000
946.086
943.500
946.589
944.000
947.091
944.500
947.594
945.000
948.097
945.500
948.600
946.000
949.103
946.500
949.606
947.000
950.109
947.500
950.611



948.000
951.114
948.500
951.617
949.000
952.120
949.500
952.623
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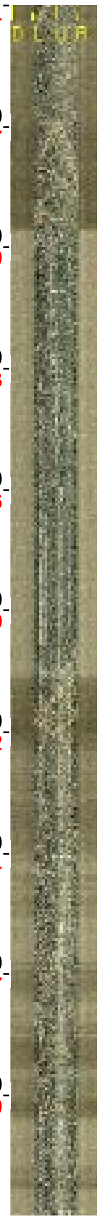

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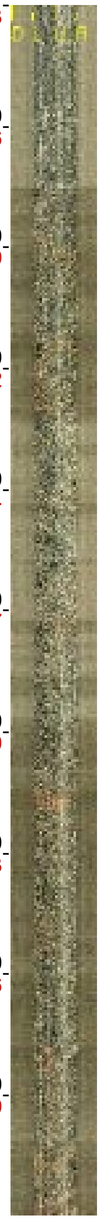

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Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 958.000 - 983.000 m
Azimuth: 235.3
Inclination: -63.2

Printed: 2005-04-18 22:25:59 Scale: 1 : 25 Aspect: 150 % 36 (37)

Borehole: KLX05
Mapping: KLX05_JEPD_A

Depth range: 983.000 - 991.584 m
Azimuth: 237.1
Inclination: -63.3

983.000
986.315
983.500
986.818
984.000
987.321
984.500
987.824
985.000
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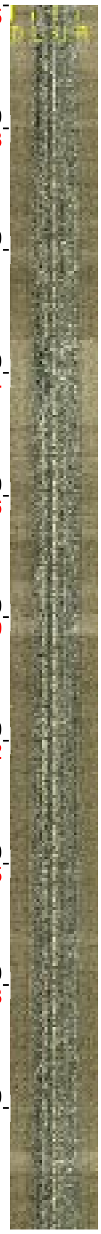

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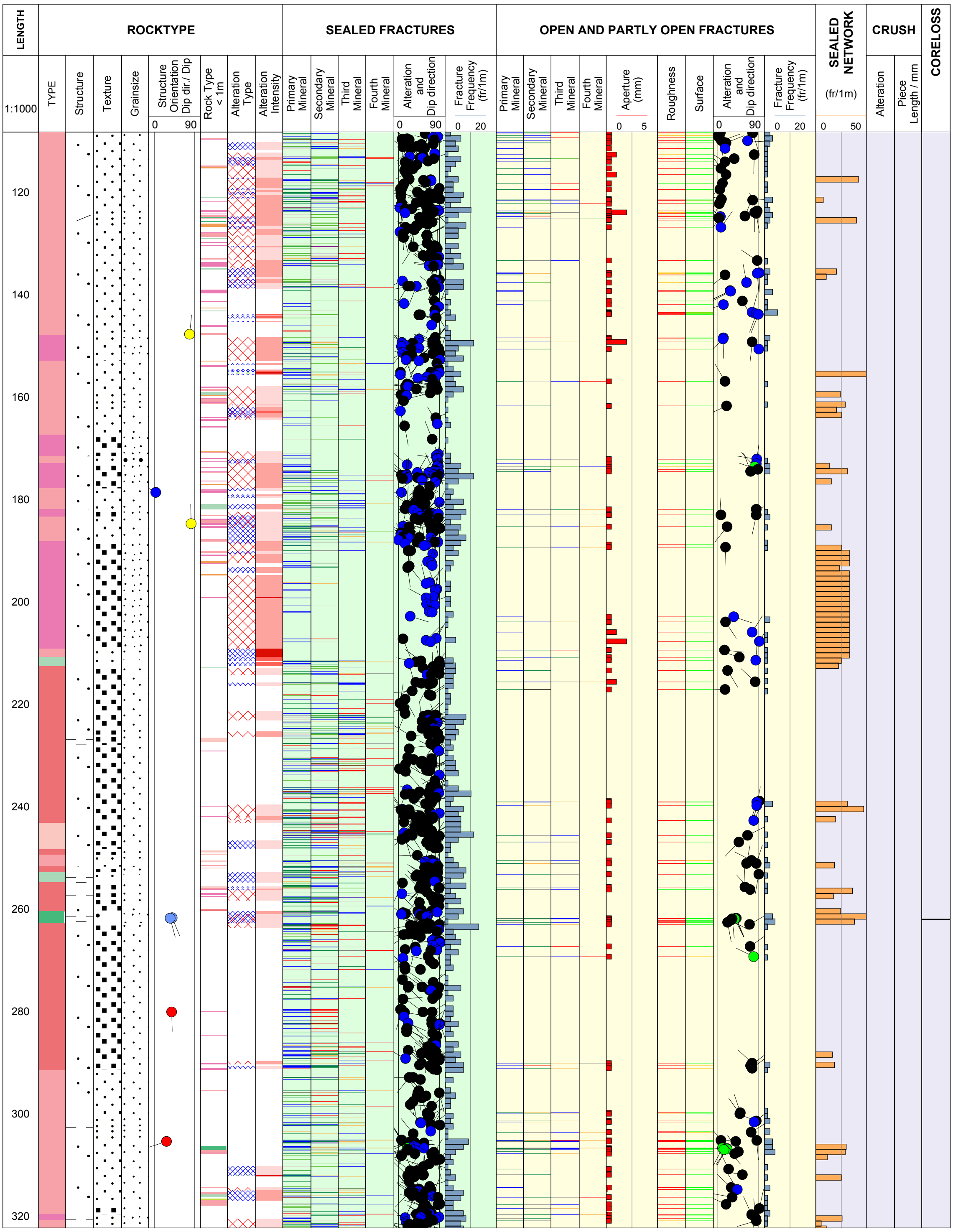
992.000
992.500

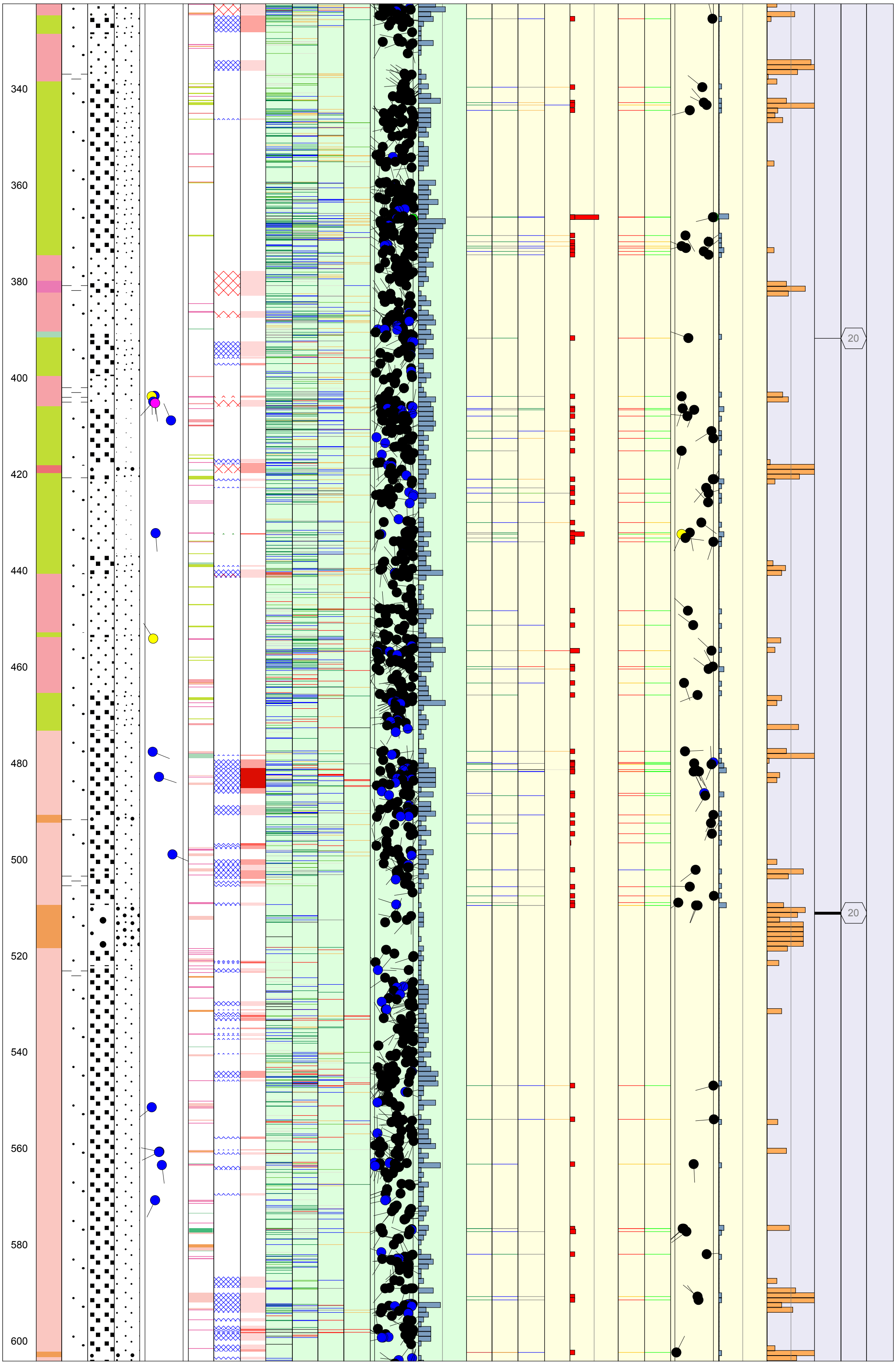
Printed: 2005-04-18 22:25:59   Scale: 1 : 25   Aspect: 150 %   37 (37)

WellCad diagram of KLX05

Title GEOLOGY IN KLX05 **Appendix:**

Site	LAXEMAR	**Coordinate System**	RT90-RHB70
Borehole	KLX05	**Northing [m]**	6365632.52
Diameter [mm]	76	**Easting [m]**	1548909.46
Length [m]	1000.160	**Elevation [m.a.s.l.]**	17.56
Bearing [°]	190.05	**Drilling Start Date**	2004-08-11 07:00:00
Inclination [°]	-65.15	**Drilling Stop Date**	2004-08-25 11:30:00
Date of coremapping	2005-03-14 16:38:00	**Plot Date**	2006-06-18 21:12:46
Rocktype data from	p_rock	**Signed data**	





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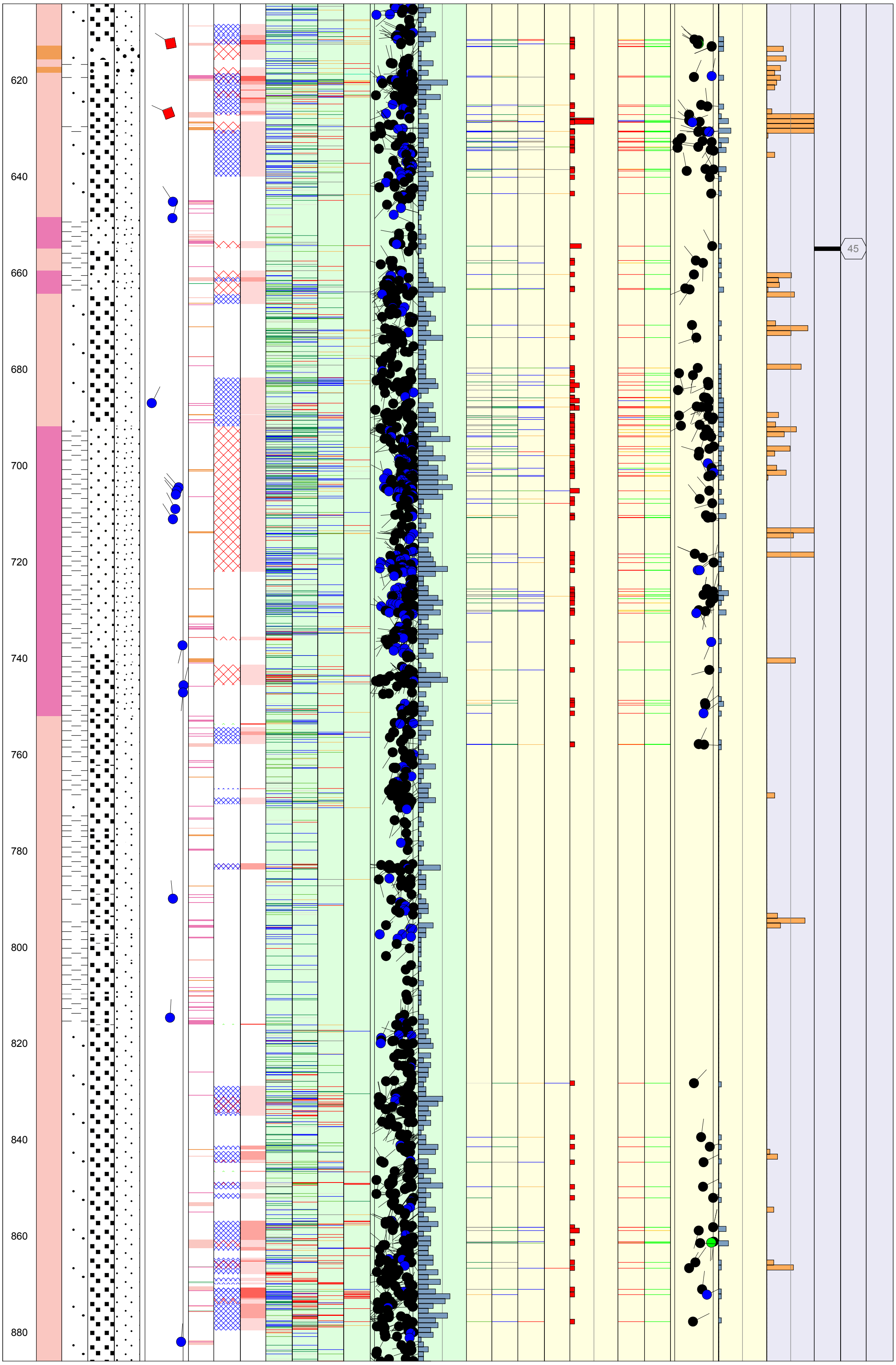
20



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860
880
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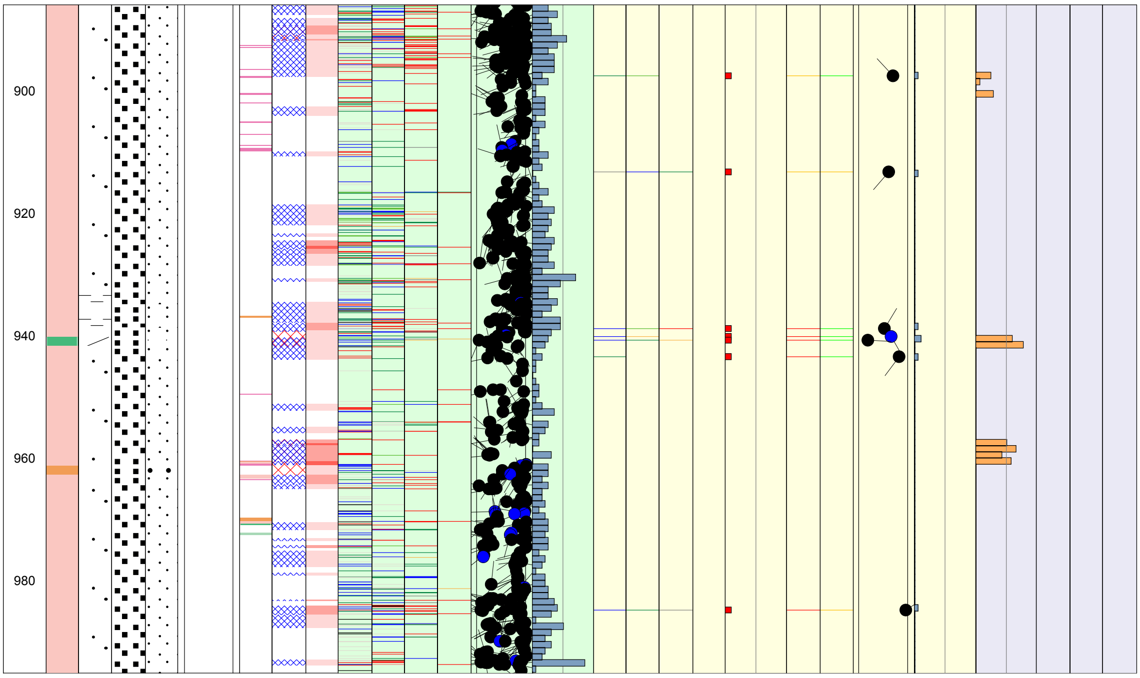
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920
940
960
980

Title **LEGEND FOR LAXEMAR** **KLX05**

Site	LAXEMAR
Borehole	KLX05
Plot Date	2006-06-19 21:12:01
Signed data	

ROCKTYPE LAXEMAR

- **Dolerite / Diabas**
- **Fine-grained Götemargranite**
- **Coarse-grained Götemargranite**
- **Fine-grained granite**
- **Pegmatite**
- **Granite**
- **Ävrö granite**
- **Quartz monzodiorite**
- **Diorite / Gabbro**
- **Fine-grained dioritoid**
- **Fine-grained diorite-gabbro**
- **Sulphide mineralization**
- **Sandstone**
- **Soil**

ROCK ALTERATION TYPE

- **Oxidized**
- **Chloritisized**
- **Epidotisized**
- **Weathered**
- **Tectonized**
- **Sericitisized**
- **Quartz dissolution**
- **Silicification**
- **Argillization**
- **Albitization**
- **Carbonatization**
- **Saussuritization**
- **Steatitization**
- **Uralitization**
- **Laumontitization**
- **Fract zone alteration**

MINERAL

- **Epidote**
- **Hematite**
- **Calcite**
- **Chlorite**
- **Quartz**
- **Unknown**
- **Pyrite**
- **Clay Minerals**
- **Zeolite**
- **Prehnite**

STRUCTURE

- **Cataclastic**
- **Schistose**
- **Gneissic**
- **Mylonitic**
- **Ductile Shear Zone**
- **Brittle-Ductile Zone**
- **Veined**
- **Banded**
- **Massive**
- **Foliated**
- **Brecciated**
- **Lineated**

TEXTURE

- **Hornfelsed**
- **Porphyritic**
- **Ophitic**
- **Equigranular**
- **Augen-Bearing**
- **Unequigranular**
- **Metamorphic**

GRAINSIZE

- **Aphanitic**
- **Fine-grained**
- **Fine to medium grained**
- **Medium to coarse grained**
- **Coarse-grained**
- **Medium-grained**

STRUCTURE ORIENTATION

- **Schistose**
- **Gneissic**
- **Bedded**
- **Cataclastic**
- **Ductile Shear Zone**
- **Brittle-Ductile Shear Zone**
- **Veined**
- **Banded**
- **Lineated**
- **Brecciated**
- **Mylonitic**
- **Foliated**

ROCK ALTERATION INTENSITY

- **No intensity**
- **Faint**
- **Weak**
- **Medium**
- **Strong**

ROUGHNESS

- **Planar**
- **Undulating**
- **Stepped**
- **Irregular**

SURFACE

- **Rough**
- **Smooth**
- **Slickensided**

CRUSH ALTERATION

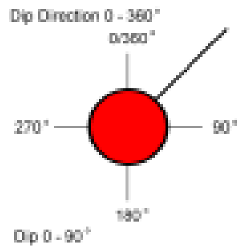
- **Slightly Altered**
- **Moderately Altered**
- **Highly Altered**
- **Completley Altered**
- **Gouge**
- **Fresh**

FRACTURE ALTERATION

- **Slightly Altered**
- **Moderately Altered**
- **Highly Altered**
- **Completely Altered**
- **Gouge**
- **Fresh**

FRACTURE DIRECTION

STRUKTURE ORIENTATION



Appendix 6

In-data: Borehole length and diameter for KLX05

Hole Diam T - Drilling: Borehole diameter

KLX05, 2004-10-01 14:00:00 - 2005-01-22 13:45:00 (0.000 - 1000.160 m)

Sub Secup (m)	Sub Seclow (m)	Hole Diam (m)	Comment
75.100	76.480	0.086	T-86 (cement)
76.480	1000.160	0.076	Corac N/3 (cement till 100.40 m) 996.81-1000-16 m "Hålet blockerat av järnskrot"

Printout from SICADA 2005-03-29 18:57:58.

In-data: Deviation data for KLX05

Maxibor T - Borehole deviation: Maxibor

KLX05, 2005-01-23 07:23:00 - 2005-01-23 12:20:00 (15.000 - 941.000 m)

Length (m)	Northing (m)	Easting (m)	Elevation (m)	Coord System	Inclination (degrees)	Bearing (degrees)	Local A (m)	Local B (m)	Local C (m)	Extrapol Flag
15.00	6365627.07	1548908.23	-4.05	RT90-RHB70	-64.64	190.90	0.0000	0.0000	0.0000	
18.00	6365625.81	1548907.99	-1.34	RT90-RHB70	-64.61	190.92	1.2800	0.0000	0.0000	
21.00	6365624.55	1548907.74	1.37	RT90-RHB70	-64.61	190.87	2.5700	0.0000	0.0000	
24.00	6365623.28	1548907.50	4.08	RT90-RHB70	-64.62	190.86	3.8600	0.0000	0.0000	
27.00	6365622.02	1548907.26	6.79	RT90-RHB70	-64.58	190.84	5.1400	0.0000	0.0000	
30.00	6365620.75	1548907.02	9.50	RT90-RHB70	-64.53	190.81	6.4300	0.0000	0.0100	
33.00	6365619.49	1548906.77	12.21	RT90-RHB70	-64.50	190.94	7.7200	0.0000	0.0100	
36.00	6365618.22	1548906.53	14.92	RT90-RHB70	-64.50	190.98	9.0100	0.0000	0.0200	
39.00	6365616.95	1548906.28	17.63	RT90-RHB70	-64.52	190.92	10.3000	0.0000	0.0300	
42.00	6365615.68	1548906.04	20.33	RT90-RHB70	-64.53	190.96	11.5900	0.0000	0.0300	
45.00	6365614.42	1548905.79	23.04	RT90-RHB70	-64.41	190.99	12.8800	0.0000	0.0400	
48.00	6365613.15	1548905.55	25.75	RT90-RHB70	-64.33	190.99	14.1800	0.0000	0.0500	
51.00	6365611.87	1548905.30	28.45	RT90-RHB70	-64.33	190.89	15.4800	0.0000	0.0700	
54.00	6365610.59	1548905.05	31.16	RT90-RHB70	-64.29	190.88	16.7800	0.0000	0.0800	
57.00	6365609.32	1548904.81	33.86	RT90-RHB70	-64.20	190.82	18.0800	0.0000	0.1000	
60.00	6365608.03	1548904.56	36.56	RT90-RHB70	-64.14	190.89	19.3900	0.0000	0.1300	
63.00	6365606.75	1548904.32	39.26	RT90-RHB70	-64.04	190.82	20.7000	0.0000	0.1500	
66.00	6365605.46	1548904.07	41.96	RT90-RHB70	-64.04	190.76	22.0100	0.0000	0.1800	
69.00	6365604.17	1548903.82	44.65	RT90-RHB70	-64.06	190.66	23.3200	0.0000	0.2100	
72.00	6365602.88	1548903.58	47.35	RT90-RHB70	-64.03	190.60	24.6300	-0.0100	0.2500	
75.00	6365601.59	1548903.34	50.05	RT90-RHB70	-64.12	190.56	25.9500	-0.0200	0.2800	
78.00	6365600.30	1548903.10	52.75	RT90-RHB70	-64.26	190.64	27.2600	-0.0200	0.3000	
81.00	6365599.02	1548902.86	55.45	RT90-RHB70	-64.09	190.67	28.5600	-0.0300	0.3200	
84.00	6365597.73	1548902.62	58.15	RT90-RHB70	-63.91	190.70	29.8700	-0.0400	0.3500	
87.00	6365596.43	1548902.37	60.84	RT90-RHB70	-63.78	190.80	31.1900	-0.0400	0.3900	
90.00	6365595.13	1548902.12	63.53	RT90-RHB70	-63.66	190.75	32.5200	-0.0400	0.4400	
93.00	6365593.82	1548901.87	66.22	RT90-RHB70	-63.55	190.68	33.8500	-0.0500	0.4900	
96.00	6365592.51	1548901.63	68.91	RT90-RHB70	-63.58	190.32	35.1800	-0.0500	0.5400	
99.00	6365591.20	1548901.39	71.60	RT90-RHB70	-63.60	189.67	36.5200	-0.0600	0.6000	
102.00	6365589.88	1548901.16	74.28	RT90-RHB70	-63.74	189.29	37.8500	-0.0900	0.6500	
105.00	6365588.57	1548900.95	76.97	RT90-RHB70	-63.59	189.71	39.1800	-0.1300	0.7000	
108.00	6365587.26	1548900.72	79.66	RT90-RHB70	-63.46	189.84	40.5100	-0.1600	0.7600	
111.00	6365585.94	1548900.50	82.34	RT90-RHB70	-63.35	190.00	41.8500	-0.1800	0.8200	
114.00	6365584.61	1548900.26	85.03	RT90-RHB70	-63.31	190.14	43.2000	-0.2000	0.8800	
117.00	6365583.29	1548900.02	87.71	RT90-RHB70	-63.34	190.40	44.5400	-0.2200	0.9500	
120.00	6365581.96	1548899.78	90.39	RT90-RHB70	-63.33	190.64	45.8900	-0.2300	1.0200	

123.00	6365580.64	1548899.53	93.07	RT90-RHB70	-63.28	190.81	47.2400	-0.2400	1.0900
126.00	6365579.31	1548899.28	95.75	RT90-RHB70	-63.24	190.93	48.5900	-0.2400	1.1600
129.00	6365577.99	1548899.02	98.43	RT90-RHB70	-63.26	191.10	49.9400	-0.2400	1.2300
132.00	6365576.66	1548898.76	101.10	RT90-RHB70	-63.24	191.22	51.2900	-0.2400	1.3100
135.00	6365575.34	1548898.50	103.78	RT90-RHB70	-63.21	191.25	52.6400	-0.2300	1.3800
138.00	6365574.01	1548898.24	106.46	RT90-RHB70	-63.19	191.36	53.9900	-0.2200	1.4500
141.00	6365572.69	1548897.97	109.14	RT90-RHB70	-63.18	191.49	55.3400	-0.2100	1.5300
144.00	6365571.36	1548897.70	111.82	RT90-RHB70	-63.18	191.66	56.7000	-0.2000	1.6100
147.00	6365570.03	1548897.43	114.49	RT90-RHB70	-63.18	191.73	58.0500	-0.1800	1.6800
150.00	6365568.71	1548897.15	117.17	RT90-RHB70	-63.17	191.85	59.4000	-0.1600	1.7600
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156.00	6365566.06	1548896.59	122.52	RT90-RHB70	-63.16	192.01	62.1100	-0.1100	1.9100
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165.00	6365562.08	1548895.74	130.55	RT90-RHB70	-63.17	192.21	66.1700	-0.0300	2.1500
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171.00	6365559.44	1548895.17	135.91	RT90-RHB70	-63.20	192.37	68.8800	0.0400	2.3000
174.00	6365558.12	1548894.88	138.59	RT90-RHB70	-63.23	192.49	70.2300	0.0700	2.3700
177.00	6365556.80	1548894.59	141.27	RT90-RHB70	-63.24	192.61	71.5800	0.1100	2.4500
180.00	6365555.48	1548894.29	143.94	RT90-RHB70	-63.27	192.76	72.9300	0.1500	2.5200
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189.00	6365551.54	1548893.39	151.98	RT90-RHB70	-63.36	193.15	76.9800	0.2900	2.7300
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204.00	6365545.01	1548891.84	165.40	RT90-RHB70	-63.54	193.85	83.6800	0.5800	3.0400
207.00	6365543.71	1548891.52	168.09	RT90-RHB70	-63.54	194.05	85.0200	0.6500	3.1000
210.00	6365542.41	1548891.19	170.77	RT90-RHB70	-63.54	194.21	86.3500	0.7200	3.1500
213.00	6365541.12	1548890.86	173.46	RT90-RHB70	-63.53	194.41	87.6800	0.8000	3.2100
216.00	6365539.82	1548890.53	176.14	RT90-RHB70	-63.53	194.61	89.0200	0.8800	3.2600
219.00	6365538.53	1548890.19	178.83	RT90-RHB70	-63.54	194.82	90.3500	0.9700	3.3200
222.00	6365537.24	1548889.85	181.51	RT90-RHB70	-63.54	195.05	91.6900	1.0600	3.3700
225.00	6365535.95	1548889.50	184.20	RT90-RHB70	-63.59	195.29	93.0200	1.1600	3.4300
228.00	6365534.66	1548889.15	186.89	RT90-RHB70	-63.62	195.56	94.3500	1.2600	3.4800
231.00	6365533.37	1548888.79	189.57	RT90-RHB70	-63.65	195.79	95.6800	1.3700	3.5300
234.00	6365532.09	1548888.43	192.26	RT90-RHB70	-63.66	196.07	97.0100	1.4800	3.5800
237.00	6365530.81	1548888.06	194.95	RT90-RHB70	-63.66	196.32	98.3300	1.6000	3.6200
240.00	6365529.54	1548887.69	197.64	RT90-RHB70	-63.68	196.59	99.6600	1.7300	3.6700
243.00	6365528.26	1548887.31	200.33	RT90-RHB70	-63.70	196.86	100.9800	1.8600	3.7100
246.00	6365526.99	1548886.92	203.02	RT90-RHB70	-63.68	197.15	102.3000	2.0000	3.7600
249.00	6365525.72	1548886.53	205.71	RT90-RHB70	-63.66	197.38	103.6300	2.1400	3.8000

252.00	6365524.45	1548886.13	208.39	RT90-RHB70	-63.68	197.61	104.9500	2.2900	3.8400
255.00	6365523.18	1548885.73	211.08	RT90-RHB70	-63.71	197.89	106.2700	2.4500	3.8900
258.00	6365521.92	1548885.32	213.77	RT90-RHB70	-63.72	198.10	107.5900	2.6100	3.9300
261.00	6365520.65	1548884.91	216.46	RT90-RHB70	-63.74	198.33	108.9100	2.7800	3.9600
264.00	6365519.39	1548884.49	219.15	RT90-RHB70	-63.78	198.56	110.2200	2.9500	4.0000
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270.00	6365516.88	1548883.65	224.54	RT90-RHB70	-63.83	198.91	112.8500	3.3000	4.0700
273.00	6365515.63	1548883.22	227.23	RT90-RHB70	-63.84	199.08	114.1600	3.4900	4.1000
276.00	6365514.38	1548882.79	229.92	RT90-RHB70	-63.89	199.23	115.4700	3.6800	4.1300
279.00	6365513.14	1548882.35	232.62	RT90-RHB70	-63.94	199.45	116.7700	3.8700	4.1500
282.00	6365511.89	1548881.91	235.31	RT90-RHB70	-63.97	199.68	118.0800	4.0600	4.1800
285.00	6365510.65	1548881.47	238.01	RT90-RHB70	-64.02	199.88	119.3800	4.2700	4.2000
288.00	6365509.42	1548881.02	240.70	RT90-RHB70	-64.09	200.08	120.6800	4.4700	4.2200
291.00	6365508.19	1548880.57	243.40	RT90-RHB70	-64.14	200.28	121.9700	4.6800	4.2300
294.00	6365506.96	1548880.12	246.10	RT90-RHB70	-64.18	200.51	123.2600	4.8900	4.2400
297.00	6365505.73	1548879.66	248.80	RT90-RHB70	-64.20	200.73	124.5500	5.1100	4.2500
300.00	6365504.51	1548879.20	251.50	RT90-RHB70	-64.21	200.93	125.8400	5.3300	4.2500
303.00	6365503.29	1548878.73	254.20	RT90-RHB70	-64.24	201.08	127.1200	5.5600	4.2600
306.00	6365502.08	1548878.26	256.91	RT90-RHB70	-64.29	201.23	128.4000	5.7900	4.2600
309.00	6365500.86	1548877.79	259.61	RT90-RHB70	-64.31	201.46	129.6800	6.0200	4.2600
312.00	6365499.65	1548877.32	262.31	RT90-RHB70	-64.31	201.65	130.9600	6.2600	4.2600
315.00	6365498.45	1548876.84	265.02	RT90-RHB70	-64.34	201.84	132.2400	6.5100	4.2500
318.00	6365497.24	1548876.35	267.72	RT90-RHB70	-64.35	202.07	133.5200	6.7500	4.2500
321.00	6365496.04	1548875.86	270.42	RT90-RHB70	-64.37	202.24	134.7900	7.0000	4.2400
324.00	6365494.84	1548875.37	273.13	RT90-RHB70	-64.43	202.52	136.0600	7.2600	4.2300
327.00	6365493.64	1548874.88	275.84	RT90-RHB70	-64.41	202.88	137.3300	7.5200	4.2200
330.00	6365492.45	1548874.37	278.54	RT90-RHB70	-64.40	203.07	138.6000	7.7900	4.2100
333.00	6365491.25	1548873.87	281.25	RT90-RHB70	-64.47	203.14	139.8600	8.0600	4.1900
336.00	6365490.06	1548873.36	283.95	RT90-RHB70	-64.52	203.38	141.1300	8.3400	4.1700
339.00	6365488.88	1548872.85	286.66	RT90-RHB70	-64.51	203.68	142.3900	8.6100	4.1500
342.00	6365487.70	1548872.33	289.37	RT90-RHB70	-64.50	203.85	143.6500	8.9000	4.1300
345.00	6365486.52	1548871.80	292.08	RT90-RHB70	-64.47	204.06	144.9100	9.1900	4.1100
348.00	6365485.34	1548871.28	294.79	RT90-RHB70	-64.38	204.30	146.1700	9.4800	4.0900
351.00	6365484.15	1548870.74	297.49	RT90-RHB70	-64.35	204.50	147.4300	9.7900	4.0700
354.00	6365482.97	1548870.21	300.19	RT90-RHB70	-64.35	204.74	148.6900	10.0900	4.0500
357.00	6365481.79	1548869.66	302.90	RT90-RHB70	-64.34	204.97	149.9500	10.4000	4.0300
360.00	6365480.61	1548869.11	305.60	RT90-RHB70	-64.33	205.17	151.2100	10.7200	4.0100
363.00	6365479.44	1548868.56	308.31	RT90-RHB70	-64.34	205.35	152.4700	11.0400	3.9900
366.00	6365478.26	1548868.00	311.01	RT90-RHB70	-64.33	205.39	153.7300	11.3600	3.9700
369.00	6365477.09	1548867.45	313.72	RT90-RHB70	-64.40	205.45	154.9900	11.6900	3.9500
372.00	6365475.92	1548866.89	316.42	RT90-RHB70	-64.46	205.67	156.2400	12.0100	3.9300
375.00	6365474.75	1548866.33	319.13	RT90-RHB70	-64.49	205.86	157.4900	12.3400	3.9000
378.00	6365473.59	1548865.77	321.83	RT90-RHB70	-64.53	206.01	158.7400	12.6800	3.8600

381.00	6365472.43	1548865.20	324.54	RT90-RHB70	-64.55	206.33	159.9900	13.0100	3.8300
384.00	6365471.28	1548864.63	327.25	RT90-RHB70	-64.52	206.70	161.2300	13.3500	3.7900
387.00	6365470.12	1548864.05	329.96	RT90-RHB70	-64.51	206.93	162.4700	13.7100	3.7500
390.00	6365468.97	1548863.46	332.67	RT90-RHB70	-64.53	207.14	163.7100	14.0600	3.7200
393.00	6365467.82	1548862.88	335.38	RT90-RHB70	-64.55	207.37	164.9500	14.4200	3.6800
396.00	6365466.68	1548862.28	338.09	RT90-RHB70	-64.55	207.63	166.1900	14.7900	3.6300
399.00	6365465.54	1548861.69	340.79	RT90-RHB70	-64.53	207.85	167.4200	15.1600	3.5900
402.00	6365464.40	1548861.08	343.50	RT90-RHB70	-64.54	208.00	168.6500	15.5400	3.5400
405.00	6365463.26	1548860.48	346.21	RT90-RHB70	-64.56	208.14	169.8900	15.9200	3.5000
408.00	6365462.12	1548859.87	348.92	RT90-RHB70	-64.57	208.40	171.1200	16.3000	3.4500
411.00	6365460.99	1548859.26	351.63	RT90-RHB70	-64.57	208.69	172.3500	16.6800	3.4000
414.00	6365459.86	1548858.64	354.34	RT90-RHB70	-64.57	208.95	173.5700	17.0800	3.3500
417.00	6365458.73	1548858.01	357.05	RT90-RHB70	-64.61	209.20	174.8000	17.4800	3.2900
420.00	6365457.61	1548857.39	359.76	RT90-RHB70	-64.67	209.54	176.0200	17.8800	3.2400
423.00	6365456.49	1548856.75	362.47	RT90-RHB70	-64.69	209.89	177.2400	18.2900	3.1700
426.00	6365455.38	1548856.12	365.18	RT90-RHB70	-64.69	210.11	178.4500	18.7100	3.1100
429.00	6365454.27	1548855.47	367.89	RT90-RHB70	-64.69	210.38	179.6600	19.1300	3.0400
432.00	6365453.16	1548854.82	370.61	RT90-RHB70	-64.72	210.63	180.8700	19.5600	2.9700
435.00	6365452.06	1548854.17	373.32	RT90-RHB70	-64.74	210.86	182.0700	19.9900	2.9000
438.00	6365450.96	1548853.51	376.03	RT90-RHB70	-64.73	211.13	183.2800	20.4300	2.8200
441.00	6365449.87	1548852.85	378.75	RT90-RHB70	-64.72	211.39	184.4800	20.8700	2.7500
444.00	6365448.77	1548852.18	381.46	RT90-RHB70	-64.71	211.66	185.6800	21.3200	2.6700
447.00	6365447.68	1548851.51	384.17	RT90-RHB70	-64.73	211.91	186.8800	21.7700	2.5900
450.00	6365446.59	1548850.83	386.88	RT90-RHB70	-64.73	212.12	188.0700	22.2300	2.5100
453.00	6365445.51	1548850.15	389.60	RT90-RHB70	-64.72	212.29	189.2700	22.7000	2.4300
456.00	6365444.43	1548849.47	392.31	RT90-RHB70	-64.70	212.46	190.4600	23.1600	2.3400
459.00	6365443.34	1548848.78	395.02	RT90-RHB70	-64.67	212.64	191.6500	23.6300	2.2600
462.00	6365442.26	1548848.09	397.73	RT90-RHB70	-64.67	212.71	192.8400	24.1100	2.1800
465.00	6365441.18	1548847.40	400.44	RT90-RHB70	-64.69	212.94	194.0400	24.5900	2.0900
468.00	6365440.11	1548846.70	403.16	RT90-RHB70	-64.67	213.24	195.2200	25.0700	2.0000
471.00	6365439.03	1548845.99	405.87	RT90-RHB70	-64.66	213.48	196.4100	25.5600	1.9100
474.00	6365437.96	1548845.29	408.58	RT90-RHB70	-64.68	213.66	197.6000	26.0500	1.8200
477.00	6365436.90	1548844.58	411.29	RT90-RHB70	-64.70	213.88	198.7800	26.5500	1.7300
480.00	6365435.83	1548843.86	414.00	RT90-RHB70	-64.71	214.09	199.9600	27.0500	1.6400
483.00	6365434.77	1548843.14	416.72	RT90-RHB70	-64.74	214.28	201.1400	27.5500	1.5400
486.00	6365433.71	1548842.42	419.43	RT90-RHB70	-64.78	214.54	202.3100	28.0600	1.4400
489.00	6365432.66	1548841.70	422.14	RT90-RHB70	-64.81	214.86	203.4900	28.5700	1.3400
492.00	6365431.61	1548840.97	424.86	RT90-RHB70	-64.82	215.15	204.6500	29.0900	1.2300
495.00	6365430.57	1548840.23	427.57	RT90-RHB70	-64.80	215.45	205.8200	29.6100	1.1200
498.00	6365429.53	1548839.49	430.29	RT90-RHB70	-64.78	215.66	206.9800	30.1400	1.0000
501.00	6365428.49	1548838.75	433.00	RT90-RHB70	-64.74	215.86	208.1400	30.6800	0.8900
504.00	6365427.45	1548838.00	435.71	RT90-RHB70	-64.66	215.63	209.3000	31.2200	0.7800
507.00	6365426.41	1548837.25	438.43	RT90-RHB70	-64.55	215.22	210.4700	31.7600	0.6700

510.00	6365425.35	1548836.50	441.13	RT90-RHB70	-64.50	215.16	211.6400	32.2900	0.5700
513.00	6365424.30	1548835.76	443.84	RT90-RHB70	-64.44	215.11	212.8200	32.8200	0.4800
516.00	6365423.24	1548835.02	446.55	RT90-RHB70	-64.39	215.21	214.0000	33.3500	0.3800
519.00	6365422.18	1548834.27	449.25	RT90-RHB70	-64.33	215.45	215.1800	33.8800	0.2900
522.00	6365421.12	1548833.51	451.96	RT90-RHB70	-64.28	215.59	216.3600	34.4200	0.2000
525.00	6365420.06	1548832.76	454.66	RT90-RHB70	-64.24	215.65	217.5500	34.9700	0.1100
528.00	6365419.00	1548832.00	457.36	RT90-RHB70	-64.21	215.86	218.7300	35.5100	0.0300
531.00	6365417.94	1548831.23	460.06	RT90-RHB70	-64.24	216.01	219.9100	36.0600	-0.0600
534.00	6365416.89	1548830.47	462.77	RT90-RHB70	-64.25	216.15	221.0900	36.6200	-0.1500
537.00	6365415.84	1548829.70	465.47	RT90-RHB70	-64.20	215.82	222.2700	37.1700	-0.2400
540.00	6365414.78	1548828.93	468.17	RT90-RHB70	-64.11	215.15	223.4600	37.7200	-0.3300
543.00	6365413.71	1548828.18	470.87	RT90-RHB70	-64.03	215.05	224.6500	38.2600	-0.4100
546.00	6365412.63	1548827.42	473.56	RT90-RHB70	-64.01	215.22	225.8500	38.8000	-0.4800
549.00	6365411.56	1548826.67	476.26	RT90-RHB70	-64.00	215.42	227.0500	39.3400	-0.5500
552.00	6365410.49	1548825.90	478.96	RT90-RHB70	-63.99	215.61	228.2400	39.8900	-0.6300
555.00	6365409.42	1548825.14	481.65	RT90-RHB70	-64.01	215.80	229.4400	40.4400	-0.7000
558.00	6365408.35	1548824.37	484.35	RT90-RHB70	-64.01	216.02	230.6300	40.9900	-0.7800
561.00	6365407.29	1548823.60	487.05	RT90-RHB70	-64.02	216.28	231.8200	41.5500	-0.8600
564.00	6365406.23	1548822.82	489.74	RT90-RHB70	-64.03	216.47	233.0100	42.1100	-0.9400
567.00	6365405.17	1548822.04	492.44	RT90-RHB70	-64.05	216.69	234.1900	42.6800	-1.0200
570.00	6365404.12	1548821.25	495.14	RT90-RHB70	-64.06	216.92	235.3800	43.2500	-1.1100
573.00	6365403.07	1548820.46	497.84	RT90-RHB70	-64.07	217.12	236.5500	43.8200	-1.2000
576.00	6365402.02	1548819.67	500.53	RT90-RHB70	-64.10	217.33	237.7300	44.4000	-1.2900
579.00	6365400.98	1548818.88	503.23	RT90-RHB70	-64.14	217.54	238.9000	44.9900	-1.3900
582.00	6365399.94	1548818.08	505.93	RT90-RHB70	-64.19	217.77	240.0700	45.5700	-1.4900
585.00	6365398.91	1548817.28	508.63	RT90-RHB70	-64.23	218.04	241.2400	46.1600	-1.5900
588.00	6365397.88	1548816.48	511.34	RT90-RHB70	-64.24	218.12	242.4000	46.7600	-1.7000
591.00	6365396.86	1548815.67	514.04	RT90-RHB70	-64.30	217.69	243.5600	47.3600	-1.8100
594.00	6365395.83	1548814.88	516.74	RT90-RHB70	-64.35	216.95	244.7200	47.9400	-1.9200
597.00	6365394.79	1548814.10	519.44	RT90-RHB70	-64.31	216.69	245.8900	48.5100	-2.0200
600.00	6365393.75	1548813.32	522.15	RT90-RHB70	-64.30	216.31	247.0600	49.0800	-2.1200
603.00	6365392.70	1548812.55	524.85	RT90-RHB70	-64.35	215.79	248.2300	49.6400	-2.2200
606.00	6365391.65	1548811.79	527.56	RT90-RHB70	-64.34	215.67	249.4100	50.1800	-2.3100
609.00	6365390.59	1548811.03	530.26	RT90-RHB70	-64.33	215.27	250.5900	50.7300	-2.4000
612.00	6365389.53	1548810.28	532.96	RT90-RHB70	-64.40	214.55	251.7800	51.2600	-2.4900
615.00	6365388.46	1548809.55	535.67	RT90-RHB70	-64.36	214.45	252.9600	51.7800	-2.5800
618.00	6365387.39	1548808.81	538.37	RT90-RHB70	-64.32	214.59	254.1500	52.3000	-2.6600
621.00	6365386.32	1548808.07	541.08	RT90-RHB70	-64.32	214.82	255.3400	52.8200	-2.7400
624.00	6365385.25	1548807.33	543.78	RT90-RHB70	-64.29	215.07	256.5300	53.3500	-2.8300
627.00	6365384.19	1548806.58	546.48	RT90-RHB70	-64.29	215.21	257.7200	53.8800	-2.9100
630.00	6365383.13	1548805.83	549.19	RT90-RHB70	-64.28	215.44	258.9100	54.4200	-3.0000
633.00	6365382.07	1548805.08	551.89	RT90-RHB70	-64.25	215.69	260.0900	54.9600	-3.0900
636.00	6365381.01	1548804.32	554.59	RT90-RHB70	-64.25	215.87	261.2700	55.5100	-3.1700

639.00	6365379.95	1548803.55	557.29	RT90-RHB70	-64.26	216.11	262.4500	56.0600	-3.2600
642.00	6365378.90	1548802.79	560.00	RT90-RHB70	-64.26	216.34	263.6300	56.6100	-3.3600
645.00	6365377.85	1548802.01	562.70	RT90-RHB70	-64.26	216.55	264.8100	57.1700	-3.4500
648.00	6365376.80	1548801.24	565.40	RT90-RHB70	-64.25	216.80	265.9800	57.7400	-3.5500
651.00	6365375.76	1548800.46	568.10	RT90-RHB70	-64.24	217.05	267.1600	58.3100	-3.6400
654.00	6365374.72	1548799.67	570.80	RT90-RHB70	-64.09	217.53	268.3300	58.8800	-3.7400
657.00	6365373.68	1548798.87	573.50	RT90-RHB70	-63.84	217.97	269.5000	59.4700	-3.8400
660.00	6365372.64	1548798.06	576.20	RT90-RHB70	-63.77	217.54	270.6800	60.0700	-3.9300
663.00	6365371.58	1548797.25	578.89	RT90-RHB70	-63.80	216.55	271.8600	60.6600	-4.0100
666.00	6365370.52	1548796.46	581.58	RT90-RHB70	-63.70	215.75	273.0600	61.2400	-4.0800
669.00	6365369.44	1548795.69	584.27	RT90-RHB70	-63.52	215.29	274.2600	61.8000	-4.1500
672.00	6365368.35	1548794.91	586.95	RT90-RHB70	-63.40	215.28	275.4800	62.3500	-4.2000
675.00	6365367.25	1548794.14	589.64	RT90-RHB70	-63.31	215.32	276.7000	62.9000	-4.2400
678.00	6365366.15	1548793.36	592.32	RT90-RHB70	-63.25	215.38	277.9300	63.4600	-4.2800
681.00	6365365.05	1548792.58	595.00	RT90-RHB70	-63.25	215.51	279.1600	64.0200	-4.3200
684.00	6365363.95	1548791.79	597.67	RT90-RHB70	-63.24	215.77	280.3900	64.5800	-4.3500
687.00	6365362.86	1548791.00	600.35	RT90-RHB70	-63.20	216.05	281.6100	65.1500	-4.3900
690.00	6365361.76	1548790.21	603.03	RT90-RHB70	-63.20	216.27	282.8400	65.7200	-4.4300
693.00	6365360.67	1548789.41	605.71	RT90-RHB70	-63.22	216.43	284.0600	66.3000	-4.4800
696.00	6365359.59	1548788.60	608.39	RT90-RHB70	-63.23	216.53	285.2800	66.8900	-4.5200
699.00	6365358.50	1548787.80	611.07	RT90-RHB70	-63.24	216.67	286.5000	67.4700	-4.5700
702.00	6365357.42	1548786.99	613.74	RT90-RHB70	-63.26	216.85	287.7100	68.0600	-4.6200
705.00	6365356.34	1548786.18	616.42	RT90-RHB70	-63.23	217.01	288.9300	68.6500	-4.6700
708.00	6365355.26	1548785.37	619.10	RT90-RHB70	-63.22	217.15	290.1400	69.2400	-4.7200
711.00	6365354.18	1548784.55	621.78	RT90-RHB70	-63.23	217.31	291.3500	69.8400	-4.7700
714.00	6365353.11	1548783.74	624.46	RT90-RHB70	-63.23	217.50	292.5600	70.4400	-4.8200
717.00	6365352.03	1548782.91	627.14	RT90-RHB70	-63.23	217.66	293.7700	71.0500	-4.8800
720.00	6365350.96	1548782.09	629.82	RT90-RHB70	-63.24	217.86	294.9800	71.6600	-4.9400
723.00	6365349.90	1548781.26	632.49	RT90-RHB70	-63.24	218.10	296.1800	72.2700	-5.0000
726.00	6365348.84	1548780.43	635.17	RT90-RHB70	-63.24	218.37	297.3800	72.8900	-5.0600
729.00	6365347.78	1548779.59	637.85	RT90-RHB70	-63.23	218.60	298.5800	73.5100	-5.1200
732.00	6365346.72	1548778.74	640.53	RT90-RHB70	-63.25	218.83	299.7800	74.1400	-5.1900
735.00	6365345.67	1548777.90	643.21	RT90-RHB70	-63.27	219.12	300.9700	74.7700	-5.2600
738.00	6365344.62	1548777.05	645.89	RT90-RHB70	-63.27	219.38	302.1600	75.4100	-5.3300
741.00	6365343.58	1548776.19	648.57	RT90-RHB70	-63.26	219.62	303.3500	76.0500	-5.4100
744.00	6365342.54	1548775.33	651.25	RT90-RHB70	-63.26	219.83	304.5300	76.7000	-5.4800
747.00	6365341.50	1548774.46	653.93	RT90-RHB70	-63.28	220.02	305.7100	77.3500	-5.5600
750.00	6365340.47	1548773.60	656.61	RT90-RHB70	-63.28	220.29	306.8900	78.0100	-5.6500
753.00	6365339.44	1548772.72	659.29	RT90-RHB70	-63.29	220.51	308.0600	78.6700	-5.7300
756.00	6365338.42	1548771.85	661.97	RT90-RHB70	-63.31	220.68	309.2400	79.3400	-5.8200
759.00	6365337.39	1548770.97	664.65	RT90-RHB70	-63.34	220.90	310.4100	80.0100	-5.9100
762.00	6365336.38	1548770.09	667.33	RT90-RHB70	-63.36	221.14	311.5700	80.6800	-6.0100
765.00	6365335.36	1548769.20	670.01	RT90-RHB70	-63.36	221.36	312.7300	81.3600	-6.1100

768.00	6365334.35	1548768.31	672.69	RT90-RHB70	-63.36	221.54	313.8900	82.0400	-6.2100
771.00	6365333.35	1548767.42	675.37	RT90-RHB70	-63.37	221.74	315.0500	82.7200	-6.3100
774.00	6365332.34	1548766.53	678.05	RT90-RHB70	-63.39	221.97	316.2000	83.4100	-6.4100
777.00	6365331.34	1548765.63	680.74	RT90-RHB70	-63.39	222.25	317.3600	84.1100	-6.5200
780.00	6365330.35	1548764.73	683.42	RT90-RHB70	-63.37	222.53	318.5000	84.8100	-6.6300
783.00	6365329.36	1548763.82	686.10	RT90-RHB70	-63.37	222.76	319.6500	85.5100	-6.7500
786.00	6365328.37	1548762.90	688.78	RT90-RHB70	-63.38	222.93	320.7900	86.2200	-6.8700
789.00	6365327.39	1548761.99	691.46	RT90-RHB70	-63.42	223.09	321.9300	86.9300	-6.9800
792.00	6365326.41	1548761.07	694.15	RT90-RHB70	-63.44	223.31	323.0700	87.6500	-7.1100
795.00	6365325.43	1548760.15	696.83	RT90-RHB70	-63.45	223.55	324.2000	88.3700	-7.2300
798.00	6365324.46	1548759.23	699.51	RT90-RHB70	-63.46	223.76	325.3300	89.0900	-7.3600
801.00	6365323.49	1548758.30	702.20	RT90-RHB70	-63.48	223.97	326.4500	89.8200	-7.4900
804.00	6365322.53	1548757.37	704.88	RT90-RHB70	-63.49	224.15	327.5800	90.5500	-7.6300
807.00	6365321.57	1548756.44	707.57	RT90-RHB70	-63.52	224.32	328.7000	91.2900	-7.7700
810.00	6365320.61	1548755.50	710.25	RT90-RHB70	-63.56	224.51	329.8100	92.0200	-7.9100
813.00	6365319.66	1548754.57	712.94	RT90-RHB70	-63.58	224.72	330.9300	92.7600	-8.0500
816.00	6365318.71	1548753.63	715.62	RT90-RHB70	-63.58	224.87	332.0300	93.5000	-8.2000
819.00	6365317.76	1548752.68	718.31	RT90-RHB70	-63.60	225.03	333.1400	94.2500	-8.3500
822.00	6365316.82	1548751.74	721.00	RT90-RHB70	-63.62	225.21	334.2500	95.0000	-8.5100
825.00	6365315.88	1548750.79	723.69	RT90-RHB70	-63.65	225.43	335.3500	95.7500	-8.6600
828.00	6365314.94	1548749.85	726.37	RT90-RHB70	-63.66	225.63	336.4400	96.5000	-8.8200
831.00	6365314.01	1548748.89	729.06	RT90-RHB70	-63.66	225.78	337.5400	97.2600	-8.9800
834.00	6365313.09	1548747.94	731.75	RT90-RHB70	-63.69	225.94	338.6300	98.0200	-9.1500
837.00	6365312.16	1548746.99	734.44	RT90-RHB70	-63.72	226.11	339.7200	98.7900	-9.3200
840.00	6365311.24	1548746.03	737.13	RT90-RHB70	-63.74	226.32	340.8000	99.5500	-9.4900
843.00	6365310.32	1548745.07	739.82	RT90-RHB70	-63.76	226.53	341.8900	100.3200	-9.6600
846.00	6365309.41	1548744.11	742.51	RT90-RHB70	-63.76	226.71	342.9600	101.1000	-9.8400
849.00	6365308.50	1548743.14	745.20	RT90-RHB70	-63.77	226.88	344.0400	101.8700	-10.0200
852.00	6365307.60	1548742.17	747.89	RT90-RHB70	-63.78	227.04	345.1100	102.6500	-10.2100
855.00	6365306.69	1548741.20	750.58	RT90-RHB70	-63.78	227.23	346.1800	103.4300	-10.3900
858.00	6365305.79	1548740.23	753.28	RT90-RHB70	-63.78	227.49	347.2500	104.2200	-10.5800
861.00	6365304.90	1548739.25	755.97	RT90-RHB70	-63.76	227.70	348.3100	105.0100	-10.7700
864.00	6365304.00	1548738.27	758.66	RT90-RHB70	-63.73	227.89	349.3800	105.8000	-10.9600
867.00	6365303.11	1548737.29	761.35	RT90-RHB70	-63.70	228.08	350.4400	106.6000	-11.1600
870.00	6365302.22	1548736.30	764.04	RT90-RHB70	-63.68	228.29	351.5000	107.4000	-11.3500
873.00	6365301.34	1548735.30	766.73	RT90-RHB70	-63.66	228.53	352.5500	108.2100	-11.5500
876.00	6365300.46	1548734.31	769.41	RT90-RHB70	-63.61	228.72	353.6100	109.0200	-11.7500
879.00	6365299.58	1548733.30	772.10	RT90-RHB70	-63.58	228.90	354.6600	109.8400	-11.9500
882.00	6365298.70	1548732.30	774.79	RT90-RHB70	-63.56	229.14	355.7100	110.6600	-12.1500
885.00	6365297.83	1548731.29	777.47	RT90-RHB70	-63.53	229.38	356.7600	111.4900	-12.3500
888.00	6365296.96	1548730.27	780.16	RT90-RHB70	-63.52	229.59	357.8100	112.3200	-12.5500
891.00	6365296.09	1548729.26	782.85	RT90-RHB70	-63.50	229.86	358.8500	113.1600	-12.7600
894.00	6365295.23	1548728.23	785.53	RT90-RHB70	-63.48	230.08	359.8900	114.0000	-12.9700

897.00	6365294.37	1548727.20	788.21	RT90-RHB70	-63.46	230.31	360.9300	114.8500	-13.1800
900.00	6365293.51	1548726.17	790.90	RT90-RHB70	-63.43	230.52	361.9700	115.7000	-13.3900
903.00	6365292.66	1548725.14	793.58	RT90-RHB70	-63.43	230.72	363.0000	116.5500	-13.6100
906.00	6365291.81	1548724.10	796.26	RT90-RHB70	-63.42	230.99	364.0300	117.4100	-13.8300
909.00	6365290.96	1548723.06	798.95	RT90-RHB70	-63.40	231.24	365.0600	118.2800	-14.0500
912.00	6365290.12	1548722.01	801.63	RT90-RHB70	-63.40	231.49	366.0800	119.1500	-14.2700
915.00	6365289.29	1548720.96	804.31	RT90-RHB70	-63.38	231.72	367.1000	120.0200	-14.5000
918.00	6365288.45	1548719.90	806.99	RT90-RHB70	-63.35	231.96	368.1200	120.9000	-14.7300
921.00	6365287.62	1548718.84	809.68	RT90-RHB70	-63.33	232.21	369.1400	121.7800	-14.9600
924.00	6365286.80	1548717.78	812.36	RT90-RHB70	-63.32	232.43	370.1500	122.6700	-15.1900
927.00	6365285.98	1548716.71	815.04	RT90-RHB70	-63.28	232.68	371.1600	123.5700	-15.4300
930.00	6365285.16	1548715.64	817.72	RT90-RHB70	-63.26	232.91	372.1600	124.4600	-15.6700
933.00	6365284.34	1548714.56	820.40	RT90-RHB70	-63.25	233.18	373.1600	125.3700	-15.9100
936.00	6365283.54	1548713.48	823.07	RT90-RHB70	-63.24	233.42	374.1600	126.2800	-16.1500
939.00	6365282.73	1548712.39	825.75	RT90-RHB70	-63.24	233.71	375.1600	127.1900	-16.4000
942.00	6365281.93	1548711.31	828.43	RT90-RHB70	-63.22	233.96	376.1500	128.1100	-16.6500
945.00	6365281.14	1548710.21	831.11	RT90-RHB70	-63.23	234.22	377.1400	129.0300	-16.9100
948.00	6365280.35	1548709.12	833.79	RT90-RHB70	-63.22	234.52	378.1200	129.9600	-17.1700
951.00	6365279.56	1548708.02	836.47	RT90-RHB70	-63.19	234.81	379.1000	130.8900	-17.4300
954.00	6365278.78	1548706.91	839.14	RT90-RHB70	-63.17	235.08	380.0700	131.8300	-17.7000
957.00	6365278.01	1548705.80	841.82	RT90-RHB70	-63.19	235.35	381.0400	132.7700	-17.9700
960.00	6365277.24	1548704.69	844.50	RT90-RHB70	-63.19	235.62	382.0100	133.7200	-18.2400
963.00	6365276.47	1548703.57	847.18	RT90-RHB70	-63.23	235.87	382.9700	134.6700	-18.5200
966.00	6365275.71	1548702.45	849.86	RT90-RHB70	-63.25	236.14	383.9300	135.6300	-18.8000
969.00	6365274.96	1548701.33	852.53	RT90-RHB70	-63.26	236.40	384.8800	136.5800	-19.0900
972.00	6365274.22	1548700.21	855.21	RT90-RHB70	-63.28	236.63	385.8200	137.5500	-19.3800
975.00	6365273.47	1548699.08	857.89	RT90-RHB70	-63.29	236.89	386.7700	138.5100	-19.6800
981.00	6365272.01	1548696.82	863.25	RT90-RHB70	-63.28	237.17	388.6300	140.4600	-20.2900

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In-data: Reference marks for length adjustments for KLX05

Reference Mark T - Reference mark in drillhole

KLX05, 2005-02-08 13:00:00 - 2005-02-09 14:00:00 (110.000 - 900.000 m)

Bhlen (m)	Rotation Speed (rpm)	Start Flow (l/min)	Stop Flow (l/min)	Stop Pressure (bar)	Cutter Time (s)	Trace Detectable	Cutter Diameter (mm)	Comment
110.00	400.00	240	1000	38.0	71	Yes		
150.00	400.00	260	1000	38.0	66	Yes		
200.00	400.00	360	1000	40.0	79	Yes		
250.00	400.00	400	1000	39.0	86	Yes		
300.00	400.00	320	1000	38.0	93	Yes		
350.00	400.00	320	1000	40.0	74	Yes		
400.00	400.00	300	1000	40.0	72	Yes		
450.00	400.00	300	1000	40.0	76	Yes		
500.00	400.00	280	1000	36.0	73	Yes		
550.00	400.00	300	1000	40.0	86	Yes		
600.00	400.00	280	1000	40.0	89	Yes		
650.00	400.00	280	1000	44.0	120	Yes		
700.00	400.00	500	1000	40.0	126	Yes		Lite för högt flöde men provar att fräsa, allt ok
750.00	400.00	500	1000	40.0	123	Yes		Lite för högt flöde men provar att fräsa, allt ok
800.00	400.00	240	1000	40.0	138	Yes		Lite för högt flöde men provar att fräsa, allt ok
850.00	400.00	260	1000	40.0	258	Yes		Lite för högt flöde men provar att fräsa, allt ok
900.00	400.00	360	1000	40.0	360	Yes		Lite för högt flöde men provar att fräsa, allt ok

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