

2018

Meso- and Macro-Scale Facies and Chemostratigraphic Analysis of Middle Devonian Marcellus Shale in Northern West Virginia, USA

Thomas J Paronish

Follow this and additional works at: <https://researchrepository.wvu.edu/etd>

Recommended Citation

Paronish, Thomas J, "Meso- and Macro-Scale Facies and Chemostratigraphic Analysis of Middle Devonian Marcellus Shale in Northern West Virginia, USA" (2018). *Graduate Theses, Dissertations, and Problem Reports*. 7225.

<https://researchrepository.wvu.edu/etd/7225>

This Thesis is protected by copyright and/or related rights. It has been brought to you by the The Research Repository @ WVU with permission from the rights-holder(s). You are free to use this Thesis in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you must obtain permission from the rights-holder(s) directly, unless additional rights are indicated by a Creative Commons license in the record and/ or on the work itself. This Thesis has been accepted for inclusion in WVU Graduate Theses, Dissertations, and Problem Reports collection by an authorized administrator of The Research Repository @ WVU. For more information, please contact researchrepository@mail.wvu.edu.

Meso- and Macro-Scale Facies and Chemostratigraphic Analysis of Middle Devonian Marcellus Shale in Northern West Virginia, USA

Thomas J. Paronish

**Thesis submitted to the
Eberly College of Arts and Sciences
at West Virginia University**

in partial fulfillment of the requirements for the degree of

**Master of Science in
Geology**

**Timothy R. Carr, Ph.D., Chair
Shikha Sharma, Ph.D.
Amy Weislogel, Ph.D.**

Department of Geology and Geography

**Morgantown, West Virginia
2018**

**Keywords: Marcellus Shale, Appalachian Basin, Chemostratigraphy, Lithofacies,
Petrophysics**

Copyright© 2018 Thomas J. Paronish

ABSTRACT

Meso- and Macro-Scale Facies and Chemostratigraphic Analysis of Middle Devonian Marcellus Shale in Northern West Virginia, USA

Thomas J Paronish

The Marcellus Shale Energy and Environmental Laboratory (MSEEL), consists of four producing horizontal wells, two vertical pilot wells and a vertical microseismic observation well. To gain a detailed understanding of the Middle Devonian Marcellus Shale and surrounding shale and limestone intervals, I focused on the two vertical pilot wells (MIP-3H and MIP-4H). Understanding the vertical and lateral distribution of the shale lithofacies and changes in chemostratigraphy are critical to understanding the impact of depositional and diagenetic environments on hydrocarbon generation and production in shale gas reservoirs. Integrated geological and petrophysical characterization of the Marcellus and adjacent Onondaga Limestone through Mahantango Formation used available core and well log data.

Macro-scale lithofacies were determined through a combination of core and CT-scan descriptions. Meso-scale shale lithofacies, based on mineralogy and total organic content (TOC), used a combination of triple combo and advanced logging tools, which were calibrated to core data (XRD and source-rock pyrolysis). Chemostratigraphic analysis utilized x-ray fluorescence (XRF) to determine the major and trace-element trends associated within the Devonian Marcellus-Mahantango interval. Integration of these three approaches were used to develop a depositional model.

The Devonian Marcellus-Mahantango interval is composed of six shale lithofacies both at the meso- and macro-scale. Petrophysical analysis shows that three well developed organic mudstone facies are present in the Marcellus interval. Chemostratigraphic (trace element concentrations) and petrophysical data (spectral gamma derived uranium content) indicate the highly organic-rich mudstone (TOC > 6.5 weight percent) facies in the lowest part of the Marcellus Shale compared to overlying units was deposited in a highly anoxic environment with decreased detrital influence indicated by silicon, aluminum, and titanium trends. The anoxic conditions and decreased detrital input allowed for preservation of organic matter in the lowest part of the Marcellus Shale.

Acknowledgements

I would like to express my gratitude to my advisor, Dr. Timothy Carr for supporting this thesis. Thank you for accepting me as your student, providing financial assistance, guidance, and for your boundless patience in reviewing my thesis. The skills I have learned from you have made me both a better geologist and individual.

I would like to thank the faculty and staff in the Department of Geology and Geography for aiding in this process. Specifically I would like to thank Dr. Shikha Sharma and Dr. Amy Wieslogel for being on my committee. Thank you both for the time and insights for my research.

I would like to thank the Department of Energy for funding this project and the scores of individuals and groups associated with the Marcellus Shale Energy and Environmental Laboratory (MSEEL). Specifically I would like to thank Northeast Natural Energy for providing the log and core data for this study. I would like to express my gratitude to the National Energy Technology Laboratory, specifically, Dustin Crandall, Johnathan Moore, Sarah Brown, and Chloe Wonnel. Thank you for providing the pyrolysis data, XRF data sets, and medical CT-scans, as well as, your guidance and support in acquiring the core description.

I would like to express my appreciation to my friends and colleagues within the department. Thank you for your suggestions and motivation during this process. Brittany Hupp, thank you for your help in providing the XRD data for this study. Payam Kavousi, Shuvajit Bhattacharya, Keithan Martin, and Liaosha Song, thank you all for friendship, guidance, and for your willingness to take the time and share your skills and knowledge.

Lastly and most importantly, I would like to thank my family and friends for their constant support, encouragement, and patience during this process. Special thanks to my parents and siblings without your love and support this journey would not have been possible.

Thomas Paronish

April 19, 2018

Table of Contents

Abstract	ii
Acknowledgements	iii
Table of Contents	v
List of Figures	vii
List of Tables	xiii
Chapter 1, Introduction	1
1.1 Geologic Setting	3
1.2 Previous Studies	6
Lithofacies	6
XRF/Chemostratigraphy	7
1.3 Study Area	7
Chapter 2, Lithofacies	7
2.1 Macrofacies	7
Core description	7
Ct-scan description	16
2.2 Mesofacies	39
Total Organic Carbon Evaluation	39
Mineralogy	46
XRD	46
Petrophysical Mineralogy	48
Meso-facies classification	55
Chapter 3, Chemostratigraphy	59

3.1 X-ray Fluorescence	59
3.2 Paleo Proxies	69
Detrital	70
Redox Condition	71
Paleo-Production	72
3.3 Pulse Neutron Spectroscopy	76
Chapter 4, Discussion and Conclusions	81
Chapter 5, References Cited	83
Appendix A: Source rock Pyrolysis data	86
Appendix B: X-Ray Diffraction data	87
RIR Mineralogy	87
XRF-XRD Mineralogy	89
Appendix C: Shale Lithofacies PETRA Advanced Transform file	90
Appendix D: XRF Data Sets	92
Hamilton Suite	93
MSCL Mining-plus Suite	106
MSCL Soil Suite	160
MSCL Mining Suite	264

LIST OF FIGURES

Chapter 1

Figure 1-1: The MSEEL study area is located in the central portion of the Marcellus Play in Northern West Virginia (USA). The site consists of 3 vertical pilot holes (MIPSW, MIP3H, MIP4H), and 4 lateral wells (MIP3H, MIP4H, MIP5H and MIP6H). The wells in blue indicate well drilled in 2011 and in the red are the wells drilled in 2015 and associated with the Marcellus Shale Energy and Environmental Laboratory (MSEEL) project. This proposed study will focus on the MIP3H and MIP4H vertical pilots. Modified from MSEEL.org..... 2

Figure 1-2: This study focuses on the Middle Devonian Mahantango/Marcellus formations within the Appalachian basin 4

Figure 1-3: System tracts and boundaries defined by Lash and Engelder (2011) on left compared to the MIP3H well on right. Dark gray intervals represent the transgressive systems tracts (TST) and light gray represents the regressive systems tracts (RST), separated by max regressive surface (MRS) represented by the thick line, and maximum flooding surface (MFS) by the thinner line. Log tracts displayed are gamma ray in API units (GR) and Density (grams/cm³). For simplicity, the stratigraphy is divided into the upper, middle and lower members defined by the GR log trends capturing the three peaks separated by thin limestone intervals..... 5

Figure 1-4: Middle Devonian paleogeography, red circle indicates the position of the Appalachian basin with the Arcadian mountains to the south and the Cincinnati arch to the north, The yellow star indicates our study location, and the white lines indicate the approximate orientation of the paleo-equator and 30° S latitude according to Witzke and Heckel (1988), (Modified from Blakey, 2010)..... 5

Figure 1-5: Workflow for classifying shale lithofacies (Modified from Wang 2012)..... 6

Chapter 2

Figure 2-1: Upper Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary..... 12

Figure 2-2: Middle Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary..... 13

Figure 2-3: Lower Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary..... 14

Figure 2-4: Marco-facies, Track 1: gamma ray, Track 2: Marco-scale lithofacies (colors described by key to the left of the figure), and pictures to the right of the figure indicates how each lithofacies appears in core..... 15

Figure 2-5: denotes the orientation (YZ-plane in blue and XZ-plane in red) of the medical CT scan images displayed in figures 5-12..... 16

Figure 2-6: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7445' – 7454'. See Table 2.1 for key.	20
Figure 2-7: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7454' – 7460'	21
Figure 2-8: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7460' – 7467'	22
Figure 2-9: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7467 – 7473'	23
Figure 2-10: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7473 – 7481'	24
Figure 2-11: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7482 – 7485'	25
Figure 2-12: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7488 – 7495'	26
Figure 2-13: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7495 – 7501'	27
Figure 2-14: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7501 – 7510'	28
Figure 2-15: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7510 – 7516'	29
Figure 2-16: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7516 – 7525'	30
Figure 2-17: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7525 – 7529'	31
Figure 2-18: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7529 – 7538'	32
Figure 2-19: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7538 – 7544'	33
Figure 2-20: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7544 – 7553'	34
Figure 2-21: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7553 – 7557'	35
Figure 2-22: This figure shows the results of the pyrite density and fracture density analysis from the medical CT scans. A.(on the right) denotes pyrite density at .5' increments with the blue	

representing the YZ slice and red representing the XZ slice. (B.)(on the left) shows fracture density within a .5 ft. window, blue represents the YZ slice and red represents the XZ slice..... 36

Figure 2-23: Shown in the plot to the left is an example of how CT-scan imagery was used to aid the macro-facies description. Average grayscales from each slice (.5mm) are plotted with depth. Grayscales generally range from about 1600 to 2200, high values relate to denser minerals and lower values have less dense minerals. Low gray scale values (<1600) are associated with missing material, either due to a fracture or missing core. High gray scale values (>2400) are associated with nodules and other high density minerals..... 38

Figure 2-24: Cross-plot of Schmokers where RHOB and Core TOC, the equation is the linear relationship between the two TOC measurements..... 40

Figure 2-25: Crossplot of TOC and DLogR, the red line denotes the linear fit from Petra used to determine the approximate LOM..... 41

Figure 2-26: cross-plot of Passey’s calculated TOC and Core TOC, the equation is the linear relationship between the two TOC measurements..... 42

Figure 2-27: Crossplot of gamma ray and core TOC, the green line represents the linear fit for the equation at the top of the crossplot..... 44

Figure 2-28: Crossplot of uranium and core TOC, the green line represents the linear fit for the equation at the top of the crossplot..... 44

Figure 2-29: the log plot above shows the relationship between the Core TOC (blue dots) and log derived TOC’s. Track 1- Gamma Ray (0-250 API displayed, colored from 0-600 API); Track 2- DTCO (Compressional Sonic) in red (µs/ft) and deep resistivity in black with orange in fill >200 ohm-m. Leftward separation between DTCO and RT represents the amount of organic matter present as determined by Passey’s Method. Track 3- bulk density (grams/cc), Track 4- TOC determined by SRA from core shifted to log depth (blue dots) TOC_URAN (Uranium derived TOC) in purple, Passey_Sonic_TOC is TOC derived using Passey’s method in green, TOC_Schmoker’s method is TOC derived from the modified Schmoker’s equation in orange, and GR-TOC is TOC derived from gamma ray in black..... 45

Figure 2-30: The figure above displays the mineralogy for the MIP-3H well. A. Represents the mineralogy from the RIR method. B. Represents the XRF-XRD mineralogy model, both from Hupp and Donovan, 2018..... 47

Figure 2-31: This figure displays the mineralogy from ECS logs in MIP-3H (A) and MIP-4H (C) compared to the XRF-XRD derived mineralogy, from Hupp and Donovan (2018). Key is on right of figure: Clay mineral (gray), QFM (yellow), carbonate (blue), high density minerals (pyrite in gold; barite in pink, siderite in dark red)..... 50

Figure 2-32: This figure shows the distribution of NPhi vs normalized Gamma Ray for MIP-3H (blue), MIP-4H (green) and MIP-SW (red). In the crossplot on the left we can see that NPhi in MIP-4H is higher overall with the same distribution with like GR values. The right crossplot show the results after normalization is complete..... 51

Figure 2-33: Lambda-Mu crossplot with mineralogy ternary plot overlay (from Perez-Altamar & Marfurt, 2014). Formations for both MIP3H and MIP4H listed with their associated color on the left. The Marcellus in green in the formation of interest and is represented as an siliceous/argillaceous shale reservoir..... 53

Figure 2-34: This figure represents the comparison between the three mineralogy suites in the MIP-3H well: the XRF-XRD points (blue), ECS log (red), Modeled mineralogy (yellow)..... 55

Figure 2-35: Key for macro-facies: Warm colors are organic-rich facies (>6.5%) and cool colors are organic-lean (<6.5%) or ‘gray’ modified after Bhattacharya and Carr, 2016..... 56

Figure 2-36: Quartz-Clay-Carbonate Ternary diagrams with z-axis showing Shale lithofacies for each mineralogy model: A. XRF-XRD, B. PNS MIP-3H, C. PNS MIP-4H, D. Modeled MIP-3H, E. Modeled MIP-4H..... 57

Figure 2-37: This cross-section between MIP-3H and MIP-4H compares the shale lithofacies models generated for each well. Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: lithofacies from PNS and TOC_URAN, discrete points shale lithofacies from XRD and TOC-URANIUM (MIP-3H only); Tract 3:PNS mineralogy, quartz (yellow), Calcite (blue), Clays (gray), discrete points XRD mineralogy, quartz (yellow), calcite (blue), clays (gray); Tract 4: lithofacies from Modeled mineralogy and TOC_URAN, discrete points shale lithofacies from XRD and TOC-URANIUM (MIP-3H only) , Tract 5: modeled mineralogy, quartz (yellow), Calcite (blue), Clays (gray) , discrete points XRD mineralogy, quartz (yellow), calcite (blue), clays (gray);, Tract 6:Macro-facies (core scale facies) key in Figure 2-2..... 58

Chapter 3

Figure 3-1: the Multi Sensor Core Logger (MSCL) allows us to continuously run petrophysical measurements on whole core: (A) natural gamma detector; (B) X-Ray Fluorescence Spectrometry; (C) Magnetic Susceptibility Loop Sensor; (D) Magnetic Susceptibility Point Sensor; (E) Non-Contacting Electrical Resistivity Sensor; (F) P-Wave Velocity Transducers, (G) Gamma Density Source..... 59

Figure 3-2: Four suites of XRF data obtained from the MIP 3H well using the Multi Sensor Core Logger (MSCL) and traditional XRF analysis showing elements that can be identified with each suite are highlighted. Green represents elements quantified with lower errors and orange represents elements with higher error. Parameters of each suite are outlined..... 61

Figure 3-3: The six crossplots above represent the standards ran in the Hamilton Suite. Hamilton values plotted along the x-axis and the standards values are measured along the y-axis. All elements are displayed in the x-plots above..... 62

Figure 3-4: Correlation between MSCL and Hamilton suites. Correlations are displayed with bars between -1 and 1, where, negative values are red and positive values are blue..... 64

Figure 3-5: This correlation matrix shows the relationship between elements, the bolded results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero..... 65

Figure 3-6: This correlation matrix shows the relationship between elements, the bolded results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero.....66

Figure 3-7: This correlation matrix shows the relationship between elements. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero.....67

Figure 3-8: This correlation matrix shows the relationship between elements, the bolded results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark.....68

Figure 3-9: This figure ties chemical proxies to their importance in the paleo-environment. Green denotes paleo-redox proxies, red denotes paleo-production proxies, and orange denotes the detrital proxies. Modified from Sageman et al. 2003.....70

Figure 3-10: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine detrital influence. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – Aluminum (Al) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 4 – Silicon (Si) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 5 – Calcium (Ca) from Hamilton (green), MSCL Soil Suite (red), MSCL Mining-Plus Suite (blue); Column 6 -- Zircon (Zr) from Hamilton (green), MSCL Soil Suite (red), MSCL Mining-Plus Suite (blue); Column 7 – Ratio of Silicon to Aluminum (Si/Al) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 8 - Ratio of Titanium to Aluminum (Ti/Al) from Hamilton (green) and MSCL Mining-Plus Suite (blue), Column 9 – Total organic carbon from core (blue) and total organic carbon from uranium (red).....73

Figure 3-11: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine paleo-redox conditions. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – total organic carbon from core (blue) and total organic carbon from uranium (red), Column 4 – Manganese (Mn) from Hamilton Suite (green), MSCL Soil Suite (red), and MSCL Mining-Plus Suite (Blue); Column 5 – Molybdenum (Mo) from Hamilton Suite (green) and MSCL Mining-Plus Suite (blue), Column 6 – Sulfur (S) from Hamilton Suite (green), MSCL Mining Suite (black), and MSCL Mining-Plus Suite (blue); Column 7 – Iron (Fe) from Hamilton Suite (green), MSCL Mining Suite (black), and MSCL Mining-Plus Suite (blue); Column 8 – Spectral Gamma Ray logs: uranium (U) (ppm) (green), thorium (Th) (ppm) (red), and Potassium (K) (%) (blue); Column 9 – ratio of Thorium to Uranium (Th/U) values less than 3 are shaded yellow and represent a fixed uranium suggesting anoxic conditions throughout the Marcellus.....74

Figure 3-12: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine paleo-redox conditions. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – total organic carbon from core (blue) and total organic carbon from uranium (red), Column 4 – Yttrium (Y) from MSCL Soil Suite (red) and Phosphorous (P) from Hamilton Suite (green), Column 5 –

Nickel (Ni) from Hamilton Suite (green), MSCL Soil Suite (red), and MSCL Mining-Plus Suite (blue); Column 6 – Vanadium (V) from Hamilton Suite, Column 7 – Zinc from Hamilton Suite (green) and MSCL Mining-Plus Suite (blue).....	75
Figure 3-13: PNS derived elements, green are all elements capture through the lithoscanner tool and orange elements are the elements captured through the SpectroLith log.....	76
Figure 3-14: Correlation coefficients between the PNS log and Hamilton/Mining-plus suites for the MIP-3H well, Correlations are displayed with bars between -1 and 1, where, negative values are red and positive values are blue.....	77
Figure 3-15: Cross-section of MIP3H and MIP4H: Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: PNS Titanium (0-0.02),Aluminum (0-0.15), Silicon (0-0.5); Tract 3: PNS Calcium (0-.3); Tract 4: PNS Iron and Sulfur (0-.1), Tract 5: Ratio of Silicon to Aluminum (Si/Al) (0-20); Tract 6: Ratio of Titanium to Aluminum (Ti/Al)(0-0.5).....	78
Figure 3-16: This figure shows concretions precipitated given bottom water conditions. The red box indicates the regime of the MIP-3H and MIP-4H (after Clark and Mosier 1989).....	79
Figure 3-17: Cross-section of MIP3H and MIP4H: Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: Deep lateral array resistivity (ohmm) orange shading (>100 ohmm); Tract 3: neutron porosity (blue) density porosity (red); Tract 4: Neutron-Density separation (NEU_DEN_SEP)(red), Photoelectric log (PEFZ)(black/wide), Redox condition (black, extra wide) larger bracket indicates anoxic to dysoxic zone, smaller bracket (euxinic/anoxic conditions), Tract 5: Gamma Ray TOC (black line/orange shading) and effective porosity (dark blue). Red shading across logs indicates regions of high density minerals (High PE, strong positive NDS, decrease in RT), Blue shaded regions relate to carbonate intervals (NDS approaching 0, moderate PE, high RT).....	80

Appendix B

Figure B-1: Visual display of RIR XRD mineralogy from Table B-2.....	87
--	----

LIST OF TABLES

Chapter 2

Table 2-1: This table denotes the designated markers for the CT-Scan descriptions from figure 2-6 to 2-21..... 19

Table 2-2: Log properties matrix for mineralogy solution, Top is from the MIP-3H solution and the bottom matrix is for the MIP-4H solution. Lambda values are shifted down 1 to 3 GPa..... 54

Appendices

Appendix A

Table A-1: Pyrolysis Data from NETL Source rock analyzer, 7445 to 7544' (Core depth)..... 86

Table A-2: Pyrolysis Data from NETL Source rock analyzer, 7547 to 7557' (Core depth)..... 87

Appendix B

Table B-1: RIR XRD, Depth in red indicates points in the Mahantango and purple points indicate points in the Marcellus..... 88

Table B-2: XRF-XRD Mineralogy from Hupp and Donovan, 2018..... 89

Appendix D

Table D-1: Oxide to Element conversions..... 93

Table D-2: Standards measured as unknowns Hamilton suite..... 94

Table D-3: Actual values of standards, # indicates data derived from Jochum et al., 2015 Geostandards and Geoanalytical Research 40, 333-350..... 95

Table D-4: Hamilton XRF Suite..... 96

Table D-5: MSCL Mining-Plus Suite..... 106

Table D-6: MSCL Soil Suite..... 160

Table D-7: MSCL Mining Suite..... 264

CHAPTER 1, INTRODUCTION

The Middle Devonian Marcellus Shale is one of the most prolific unconventional shale plays in the United States with an estimated technically recoverable resource of 148.7 trillion cubic feet (Tcf) of natural gas and an additional 5.7 billion barrels (Bbbl) of natural gas liquids over a lateral extent of 20,757 square miles (53,760 sq. km) in the Appalachian basin (US EIA, 2015). Given the potential of the Marcellus as a long-term major producer of gas and gas liquids, it is important to better understand and utilize best practices to identify and produce economically and in a manner safest to the environment. The Marcellus Shale Energy and Environmental Laboratory (MSEEL) project was founded on these foundations in order to pursue an increased understanding of the Marcellus Shale by utilizing new technologies to optimize production, while reducing the environmental impacts.

The MSEEL project is located in the Morgantown Industrial Park, Monongalia County, northeastern West Virginia. The project is a collaboration of the Department of Energy's National Energy Technology Laboratory (NETL), West Virginia University (WVU), Northeast Natural Energy (NNE), and the Ohio State University. The study wells in the area were initially drilled in the summer of 2011 with two Marcellus gas wells; the MIP4H pilot and lateral well, and MIP6H lateral well (Figure 1.1, blue). The MSEEL project drilled three additional wells in the fall of 2015: the MIP3H, which includes a cored and logged pilot well and subsequent lateral production well; the MIPSW a microseismic observation well; and MIP5H, which consists of only the lateral production well (Figure 1-1, red).

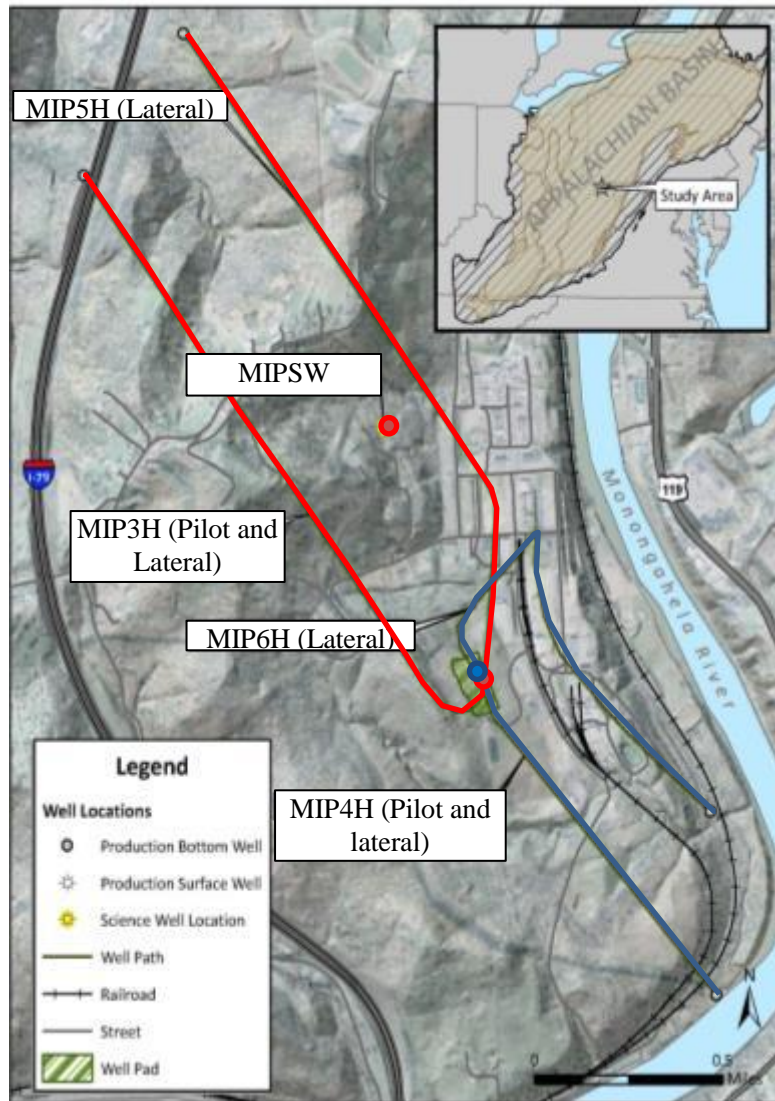


Figure 1-1: The MSEEL study area is located in the central portion of the Marcellus Play in northern West Virginia (USA). The site consists of 3 vertical pilot holes (MIPSW, MIP3H, MIP4H), and 4 lateral wells (MIP3H, MIP4H, MIP5H and MIP6H). The wells in blue indicate well drilled in 2011 and in the red are the wells drilled in 2015 and associated with the Marcellus Shale Energy and Environmental Laboratory (MSEEL) project. This proposed study will focus on the MIP3H and MIP4H vertical pilots. Modified from MSEEL.org

1.1 Geological Background

The Marcellus Shale (or often referred to as the Marcellus Formation) is a middle Devonian (Eifelian to Givetian) unit at the base of the Hamilton Group (Lash & Engelder, 2011) (Figure 1-2). Formally the Marcellus is divided into three members; the Union Springs Member, Cherry Valley Member, and Oatka Creek Member, which represent the division between two third-order transgressive-regressive sequences (Figure 1.3) (Lash and Engelder, 2011). Overall the sequence stratigraphy shows a coarsening upward trend due to the ongoing Arcadian orogeny (Lash and Engelder, 2011). For simplicity, we divide the Marcellus into the upper, middle and lower Marcellus units in the study area, which encompass the three gamma ray peaks separated by lower gamma-ray, carbonate intervals (Figure 1-3). Although formally called the Marcellus Shale most organic-rich shale reservoirs are not made of shale but are better referred to as organic-rich mudstone.

The Arcadian orogeny accommodates oblique collision between the Avalonian terrain and the Laurentian terrain (Ettensohn, 1985). Due to this oblique collision, closure is to the east and southern part of the basin due to the Acadian mountains geometry and closure to the north and west by the Cincinnati arch (Williams & Hatcher, 1982; and Ettensohn 1985). The Acadian orogeny created major subsidence in the eastern portion of the basin, just west of the Acadian mountains, and to the west the Cincinnati arch fore-bulge closing off the basin (Brett & Baird, 1996). Due to this enclosure, along with eustatic sea-level rise, shallow shelf carbonate deposition ended and allowed for the deposition of the organic-rich shale units of the Catskill delta (Lash & Engelder, 2011). Due to the large amount of accommodation space in the east, deposition of the shale units is thicker in eastern portion of the basin and thin toward the western portion of the basin. The paleogeography position of the basin differed greatly from our current

latitude; studies show that the basin was oriented east-west at approximately 30 to 35 degrees south of the Devonian equator (Witzke & Heckel, 1988) (Figure 1-4). The Appalachian basin sat within a subtropical zone resulting in seasonal variation between dry conditions and stormy conditions due to the basin's position within the subtropical trade winds and its close proximity to the horse latitudes (Witzke and Heckel, 1988). This paleogeography plays an important role in understanding the mode and direction of sediment transport within the Appalachian basin during the Middle Devonian.

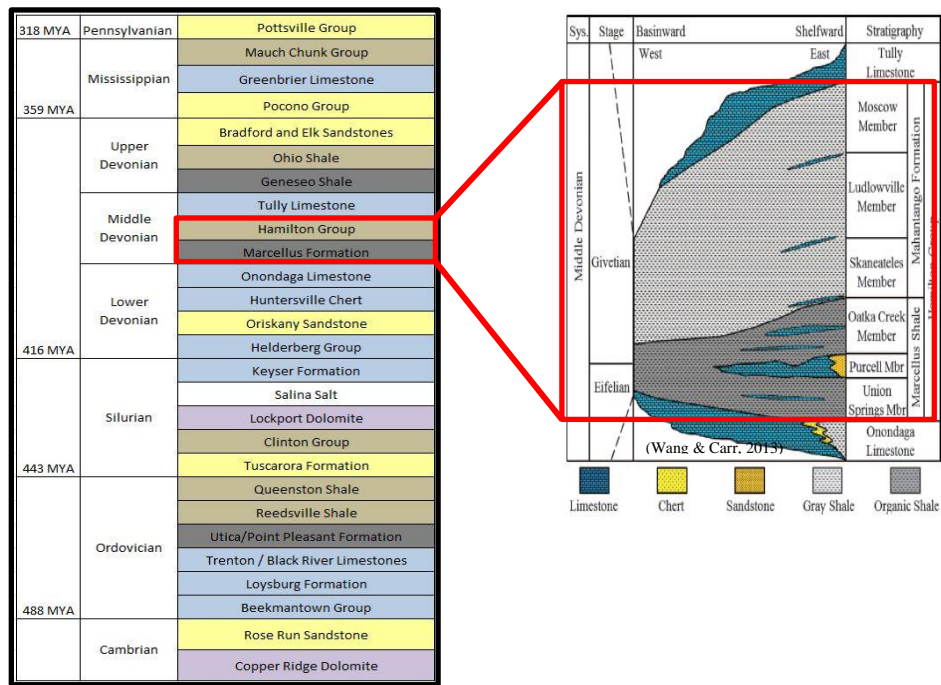


Figure 1-2: This study focuses on the Middle Devonian Mahantango/Marcellus formations within the Appalachian basin.

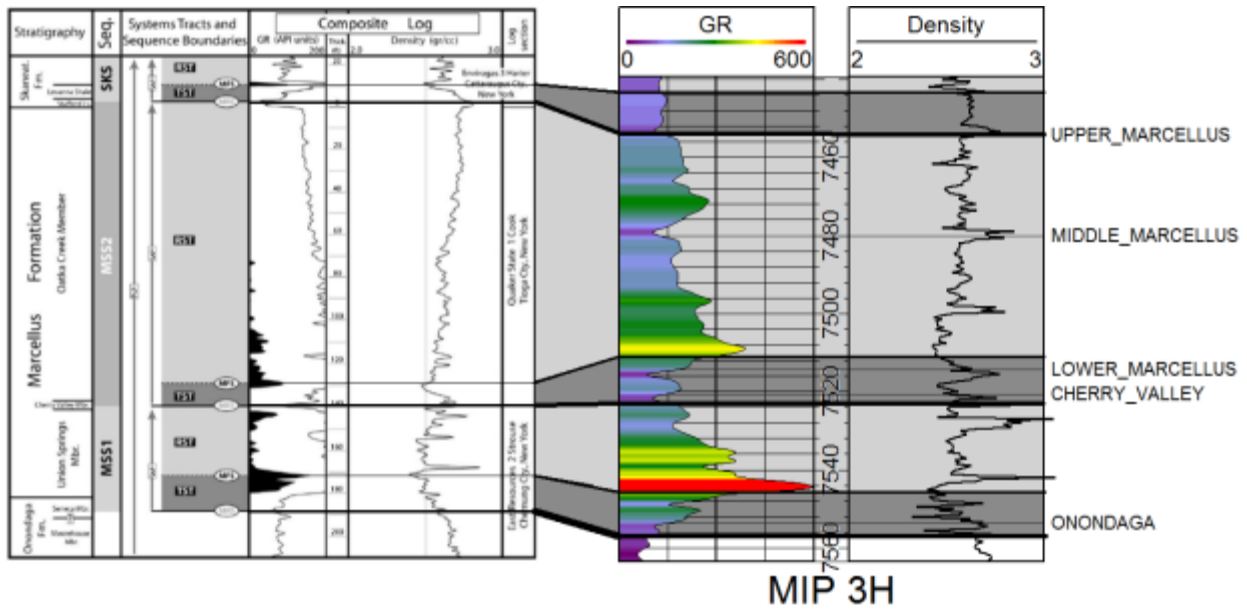


Figure 1-3: System tracts and boundaries defined by Lash and Engelder (2011) on left compared to the MIP3H well on right. Dark gray intervals represent the transgressive systems tracts (TST) and light gray represents the regressive systems tracts (RST), separated by max regressive surface (MRS) represented by the thick line, and maximum flooding surface (MFS) by the thinner line. Log tracts displayed are gamma ray in API units (GR) and Density (grams/cm³). For simplicity, the stratigraphy is divided into the upper, middle and lower members defined by the GR log trends capturing the three peaks separated by thin limestone intervals.

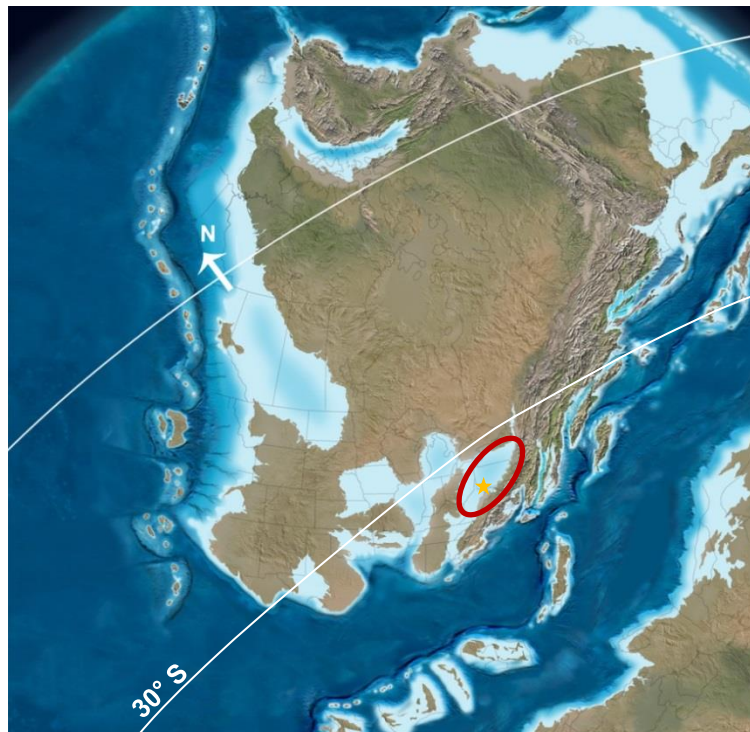


Figure 1-4: Middle Devonian paleogeography, red circle indicates the position of the Appalachian basin with the Arcadian mountains to the south and the Cincinnati arch to the north, The yellow star indicates our study location, and the white lines indicate the approximate orientation of the paleo-equator and 30° S latitude according to Witzke and Heckel (1988), (Modified from Blakey, 2010).

1.2 Previous Works

Lithofacies:

Lithofacies can be described visually, through core description, and quantitatively through petrophysical analysis. Lithofacies classification has typically been used in clastic and carbonate dominated environments and has more recently been incorporated into documenting heterogeneity in shale facies (Wang and Carr, 2013; Bhattacharya and Carr 2016). Wang and Carr (2013), developed a multiscale facies model based on total organic carbon (TOC) and mineralogy. They defined seven shale lithofacies, which include; organic mudstone, organic siliceous, organic mixed, gray (organic-lean) mudstone, gray siliceous shale, gray mixed shale and carbonate facies (Figure 1-5). Bhattacharya and Carr (2016) utilizing a similar workflow found the model can be utilized in other basins to analyze the distribution of facies (e.g., Bakken Shale of the Williston basin).

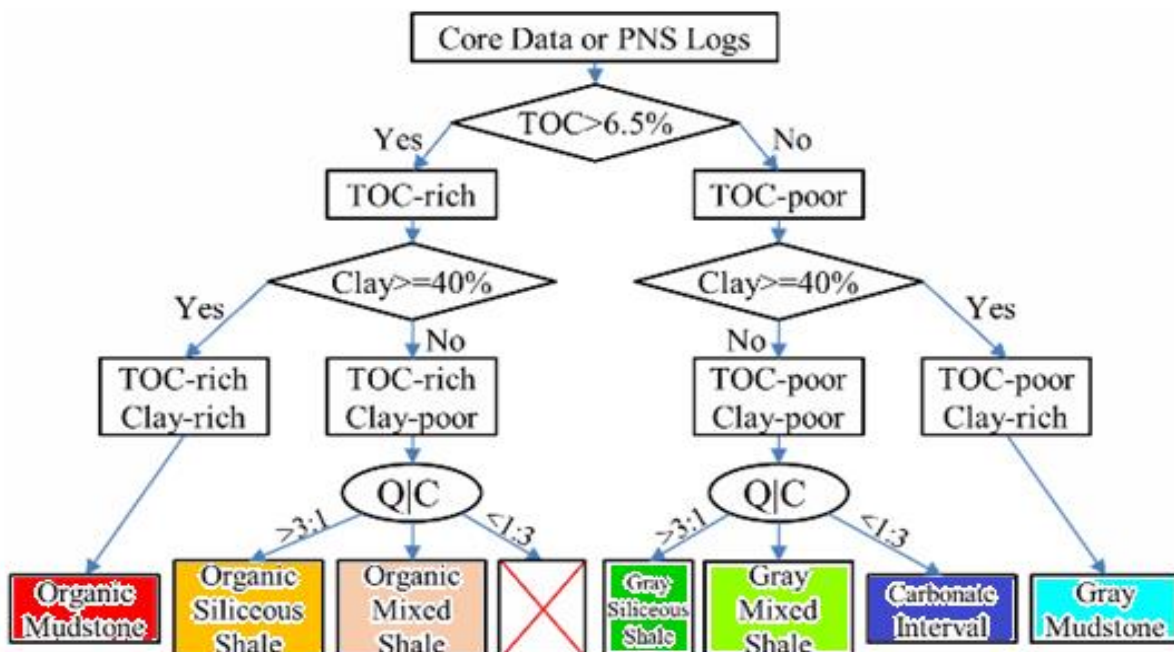


Figure 1-5: Workflow for classifying shale lithofacies (Modified from Wang 2012)

XRF/chemostratigraphy:

X-ray fluorescence (XRF) has played an important role in understanding the changes in relative abundances of major elemental concentrations in rocks at short intervals at detection limits of parts per million (ppm) (Potts & Webb, 1992). XRF has been used as a tool to understand the relative distribution of major elements and more recently has allowed inference of stratigraphic and paleoenvironmental changes based on chemical signatures (Potts & Webb, 1992; and Sageman et al., 2003). In organic-rich mudstone facies, chemostratigraphy contributes to understanding the interaction between production, decomposition, and dilution in the accumulation of strata (Sageman et al., 2003). These chemical proxies are inferred by the chemical relations observed in modern depositional environments. For instance, chemostratigraphy is a useful to in understanding changes in redox environments based on trace elements (Algeo and Maynard, 2004).

1.3 Study Area:

In the study area, located in northeastern West Virginia, the Marcellus interval is about 100 feet (30 m) thick and defined by three distinct high gamma peaks separated by thin carbonate intervals. For simplicity, the unit was separated into the informal upper, middle and lower Marcellus (Figure 1-1).

CHAPTER 2: LITHOFACIES

2.1 Macro facies

Core Description:

The MIP-3H well core is 112 feet (33m) thick, ranging from 7445 to 7557 feet (2269.24 to 2303.37 m). This depth interval encompasses the strata from the Onondaga Limestone upwards

to the base of the Mahantango. The core was described extensively in two approaches; first, through visual description from the whole rock core keeping to methods established by Lazar et al. (2015), and second, through CT-scan description looking specifically for pyrite distribution and structural changes in the core. Following the core description, the core was illustrated in a graphical log.

The method established by Lazar et al. (2015) focuses on describing fine-grained sedimentary rocks using three major components texture, bedding, and composition. The first pass of our core description focused on determining the “texture” and “composition” of the core. Focusing on the amount of silt quartz grains present in the mudstone and separating them into coarse, medium and fine, in descending size of silt. Additionally, the composition of the mudstone was determined based on the amount of silt, carbonate and clay present to categorize them into siliceous, calcareous, and argillaceous (Lazar et al., 2015).

The second pass on the core focused on the description of sedimentary and structural features present in the core. This includes fracture type and intensity, nodules and concretions, bedding and other fabric, fossils, and bioturbation. Bedding and fabric focused on the laminae geometry, continuity, and shape. Overall the fabric in the Marcellus lacked laminations and was either massive or finely laminated. Most laminations in the MIP-3H core were observed in the scattered calcareous intervals of the Marcellus, and moderately in the Mahantango Formation. Nodules, concretions, and fractures were distributed throughout the core, but increase in intensity within the middle and lower Marcellus. Cross-cutting relationships from the nodules and fractures help to determine the relative time of features during and after deposition. Bioturbation and fossils were most intense and abundant in the limestone and calcareous intervals.

The Marcellus Shale, in our study is a heterogeneous mudstone with varying degrees of carbonate, clay, organics and silt material. For simplicity, we divide the Marcellus into, upper, middle, and lower units which are further divided by 1 to 3 ft (.3 to 1 m) packages of calcareous marl/limestone. Figures 2-1– 2-3, show a visual summary of the core description.

The lower Marcellus is relatively more heterogeneous compared to the middle and upper Marcellus. The lower Marcellus includes all the observed lithofacies and has relatively equal distribution of each lithofacies. The base of the lower Marcellus and contact with the underlying Onondaga Limestone is a gradation contact between black to dark gray organic shale to gray to light gray calcareous marl to wackestone. Within the transition are two bentonite ash layers (7552.8 to 7552.9 and 7555.1 to 7555.3), both ash layers have mica present and are much coarser compared to the surrounding strata. We consider the lower ash to be the Tiago K-bentonite and place the Onondaga-Marcellus contact there. Above this contact, the lower Marcellus is composed of two black to dark-brown organic-rich mudstone facies. Also, these intervals are pyrite-rich, siliceous, and are relatively massive. They have almost no silt present and lack flocculate layers. There are prominent pyrite bands and nodules, as well as, an increase in open fracture density (Figure 2-22). Separating these two black shale intervals is a gradational transition from black fine-grained massive mudstone into coarser dark-gray mudstone and then into a light-gray marl. This transition shows an increase in the amount of silt-sized grains, cross-bedding, and bioturbation until terminating in a sharp contact with black to dark gray medium-grained mudstone. From 7529.45 to 7531.2, there is an abundance of calcite nodules, with pyritization. This zone likely represents the boundary between anoxic and oxic water conditions that favor this growth of nodules (Maynard, 2014). Above this zone, we return to a dark-gray mudstone coarsening upward to the Cherry Valley Limestone.

The Cherry Valley Limestone in the MIP-3H well is about 2.25 ft (.68 m) thick and is composed of a bioturbated, fossiliferous wackestone.

The Middle Marcellus is composed dominantly of dark-gray to gray, medium mudstone. The mudstone in the middle Marcellus consists of planar laminations, but there is a 2.7 ft interval of massive black organic-rich mudstone at the base of the middle Marcellus unit. There are some small interbedded calcareous shale intervals within the middle Marcellus, but they are less frequent compared to the number in the upper Marcellus. Pyrite nodules decrease with an increase in depth. The middle Marcellus has an abundance of calcite filled fractures (749). The fractures are relatively late stage feature with horizontal fractures forming followed by the vertical fractures. This is based on cross-cutting relations. The number of fractures observed in core is much higher than observed with the image logs (Yixuan Zhi, pers. comm.).

The upper Marcellus is like the lower and middle units; it is dominantly comprised of dark-gray mudstone. However, the upper unit has an increase in silt and clay. There is an overall increase in the frequency of interbedded flocculate intervals (1-2mm thick, light gray clay). There is relatively less pyrite in this interval and the pyrite present is on the size-order of millimeter to sub-millimeter. The upper Marcellus has a smaller frequency of calcite filled fractures. The zones where horizontal fractures dominate the fracture density increases, unlike in the middle and lower units, where vertical and sub-vertical orientations dominate.

The Mahantango Formation and Marcellus Shale form a sharp contact between a large calcite concretion that is heavily burrowed and fossiliferous. Above the concretion is a fining upward sequence from a coarse, cross-bedded calcareous shale to a planar-laminated, medium-grained,

dark-gray mudstone. The Mahantango has a very sparse distribution of both fractures and pyrite nodules.

Macro-Facies (core-scale facies) are based on a combination of core and CT scan descriptions. I identified 6 facies (limestone, light-gray shale, mixed dark-gray shale, dark-gray shale, black shale, k-bentonite) and one sub-facies (dark gray shale with nodules). The facies are:

- Limestone made up of light-gray color, heavy bioturbation, generally massive (some minor lamination) with an abundance of fossils;
- Light-gray shale made up of highly laminated (strongly cross-bedded) with flocculate zones, and are typically carbonate-rich;
- Mixed dark-gray shale made up of light gray to gray laminations (cross-bedding) on the scale of millimeter to submillimeter.
- Dark-gray shale characterized by minor laminations, minor pyrite;
- Dark-gray shale with pyrite-replaced calcite nodules and a high frequency of large calcite nodules; and
- Black shale: black shale with very minor lamination, abundance of pyrite; and K-Bentonite made up of gray/grayish yellow, platy structure, mica-rich.

Figure 2-4, provides an example of each facies observed in the core.

Core Lithofacies Key

- Limestone
- Mixed Dark-Gray Shale
- K-Bentonite
- Dark-Gray Shale w/Nodules
- Light-Gray Shale
- Dark-Gray Shale
- Black Shale

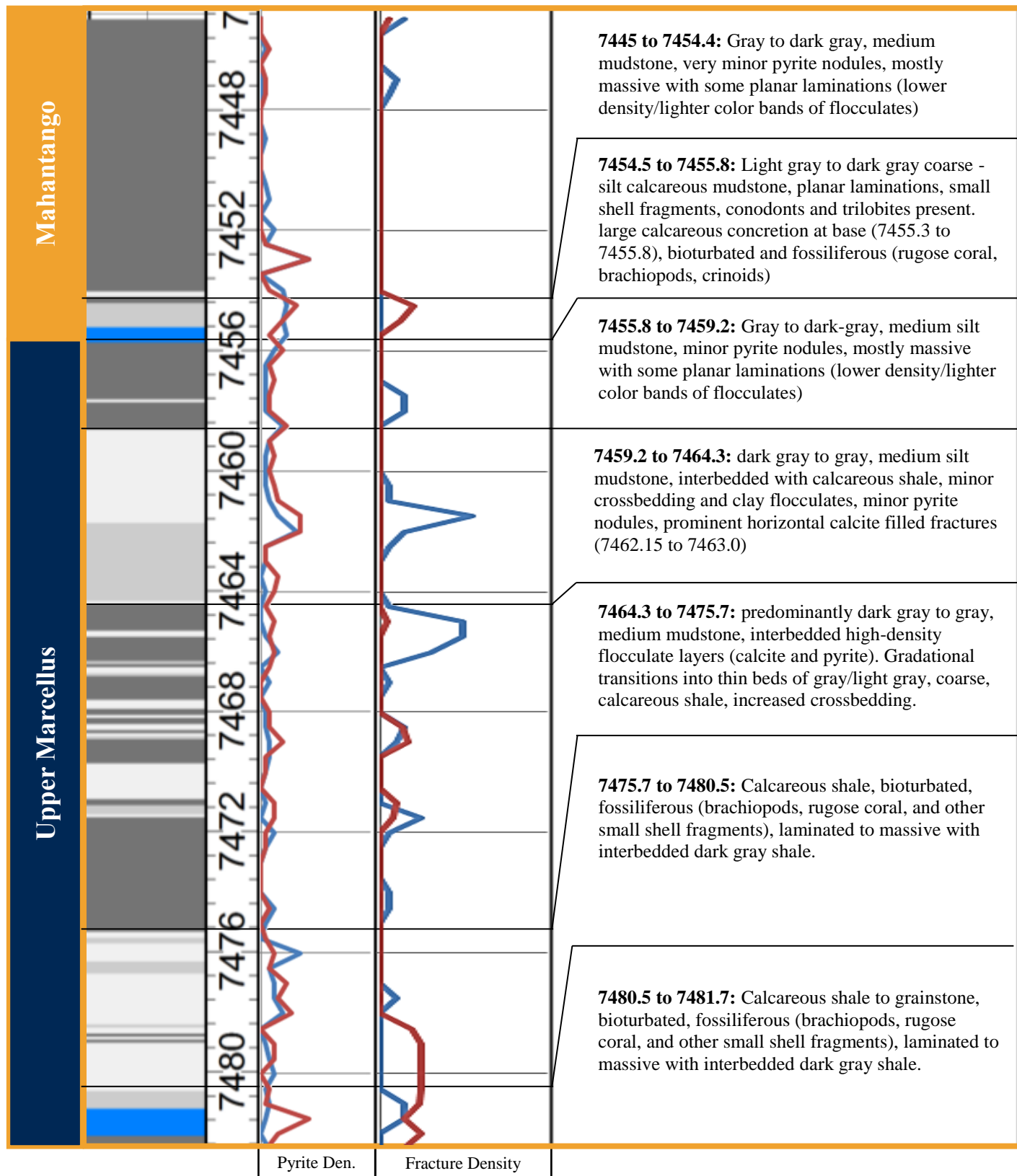


Figure 2-1: Upper Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary

Core Lithofacies Key

- Limestone
- Mixed Dark-Gray Shale
- K-Bentonite
- Dark-Gray Shale w/Nodules

- Light-Gray Shale
- Dark-Gray Shale
- Black Shale

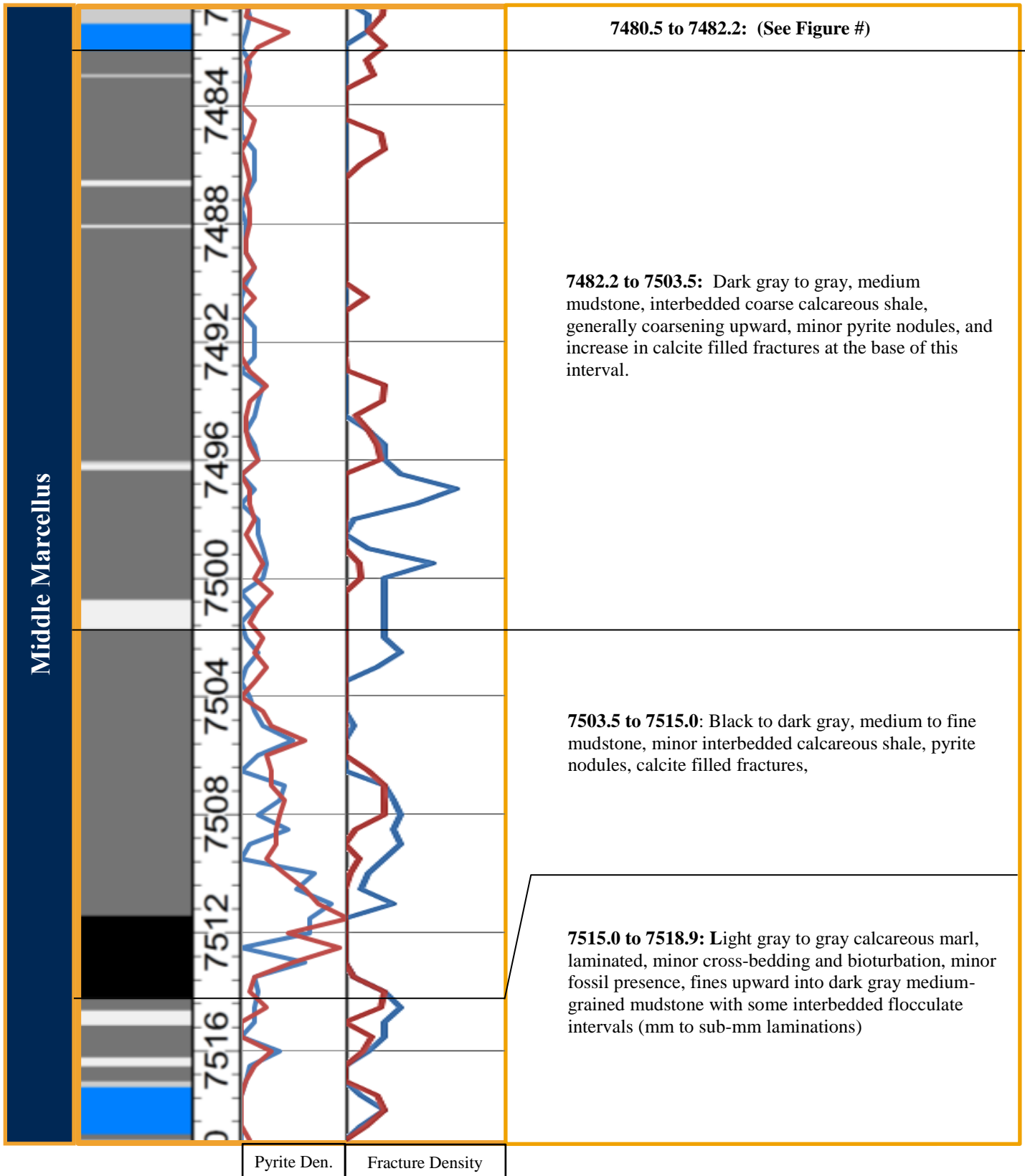


Figure 2-2: Middle Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary

Core Lithofacies Key

- Limestone
- Mixed Dark-Gray Shale
- K-Bentonite
- Dark-Gray Shale w/Nodules
- Light-Gray Shale
- Dark-Gray Shale
- Black Shale

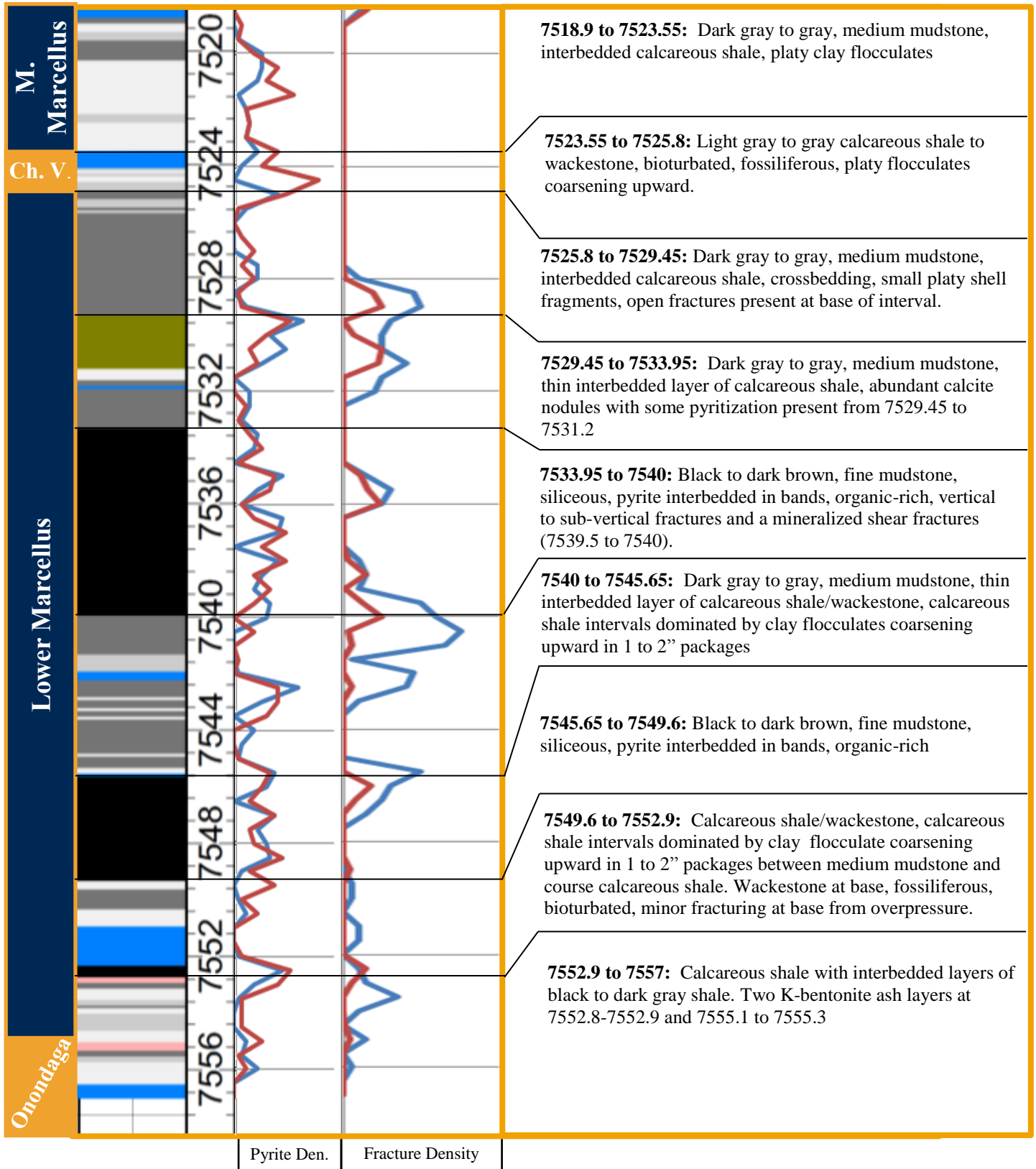


Figure 2-3: Lower Marcellus lithology summary, Track 1: lithofacies, Track 2: pyrite density, Track 3: fracture density, Track 4- lithology summary

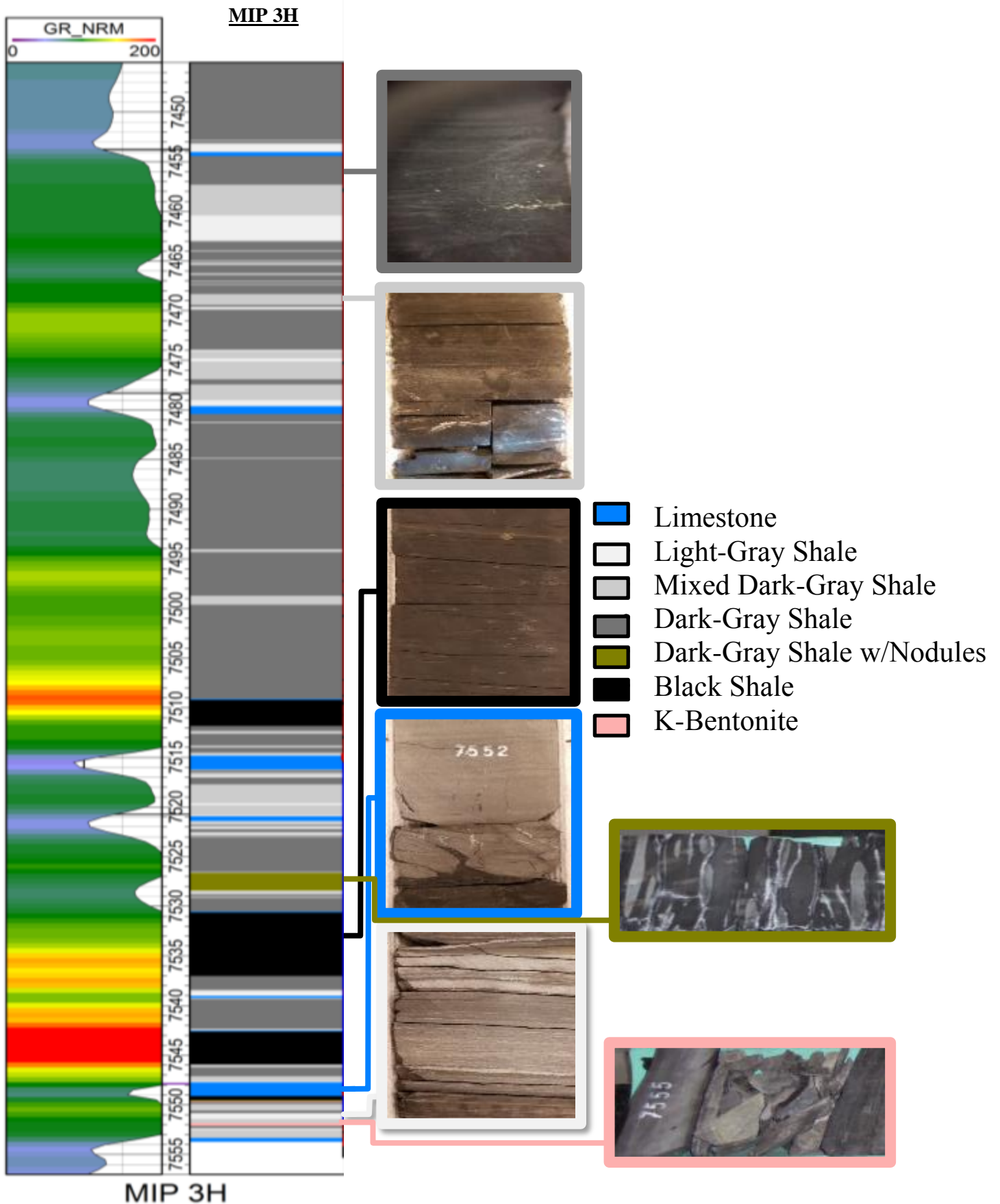


Figure 2-4: Marco-facies, Track 1: gamma ray, Track 2: Marco-scale lithofacies (colors described by key to the left of the figure), and pictures to the right of the figure indicates how each lithofacies appears in core.

CT-Scans:

The entire MIP-3H core was scanned using a medical Toshiba® Aquilion RXL™ Multi-slice Helical Computed Tomography Scanner (medical CT). The medical CT scanner produces images at high speeds at millimeter-scale resolution, with a voxel resolution of 0.43 mm x 0.43 mm in the XY plane and 0.50 mm in the z -plane. The images from the medical CT scans used a voltage of 135 kV and at 200 mA using a helical detector rotation/acquisition over a 220 mm collection diameter (Crandall et al., 2017). A 3D volume and a 2D cross-section through the middle of the core was processed from the acquired stacks at NETL using ImageJ (Figure 2-5).

The variation in the grayscale of the CT images is directly proportional to the changes in attenuation and the density of the scanned rock. Lower density regions (e.g. clays and gas-filled fractures) are represented by dark grayscales, and higher density regions (e.g. carbonate and pyrite) are represented by lighter grayscales. Utilizing this relationship, the CT-scans are used to aid in finding structural changes in the core, including bedding changes (planar vs. cross-bedding), fractures (type and intensity), and pyrite nodule distribution.

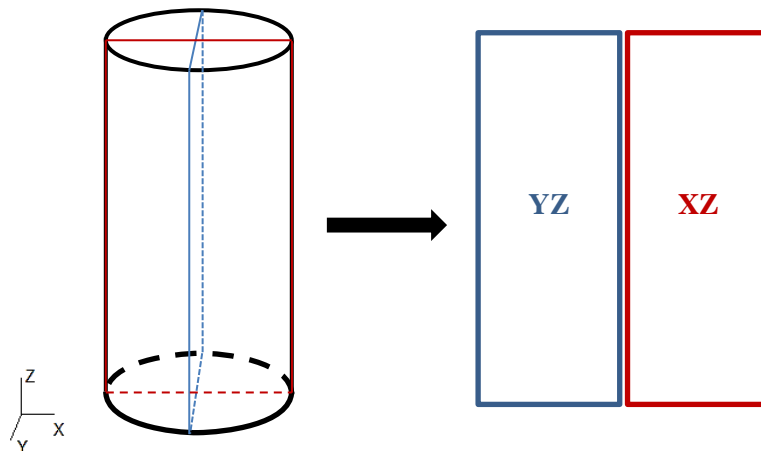


Figure 2-5: denotes the orientation (YZ-plane in blue and XZ-plane in red) of the medical CT scan images displayed in figures 5-12.

Figures 2-6 to 2-21 display the results of the medical CT scanner in a 'XZ' and 'YZ' isolated plane views. To the right of each CT image pair is a scale, where each individual bar is 1 in (2.54 cm). Depths displayed at the base of the images; represent the upper depth of the image.

Grayscale is shifted image-by-image to best represent the structures present in the XZ images and the original grayscale was maintained in the YZ images.

CT-images were scaled (to left of each slice, each bar is 1 inch (2.54 cm)) and structural features were annotated in Weatherford© PreView. Pyrite nodule, concretions, and fractures (open and filled) were digitized and depth indexed for each CT-image. Following digitization, features and their associated depths were exported and converted into pyrite nodule intensity and P20 fracture intensity; both intensities were taken at a half-foot increment (Figure 2-22). Additionally, CT-images were used to denote bedding structures and lamination styles within the resolution of the medical CT-scan (.5 mm z-axis and .43 mm in x- and y-axes).

Pyrite nodules were picked from the CT-scan slices by visually picking out "white-spots" in the images. The "white-spots" are a result of the high attenuation when the x-rays hit the high-density pyrite nodules (5.01 grams/cc). Due to the resolution of the medical CT-scans, any pyrite nodules that are smaller than .5 mm may not be imaged. The overall density of the pyrite nodules is consistent between the XZ and YZ planes (Figure 2-22). This suggests that there is little preferential orientation of the pyrite nodules. This is observed more clearly in larger pyrite nodules not compromised by excessively high attenuation values (e.g. the base of 7473' and ~7498'). These nodules form in a pancake-like shape, where the primary stress on the nodule is vertical due to burial and smaller variations in stress in the horizontal directions. The vertical density increases with depth peaking at the base of the middle Marcellus. The Mahantango has a sparse distribution of pyrite compared to the Marcellus, as a whole (Figure 2-22).

Fractures picked visually from the CT-scan slices by white linear features, denoting calcite filled fractures (2.71 grams/cc), and dark lineations denoting gas filled fractures (or open fractures).

There are limitations to this method due to the resolution of the medical CT-scans; it is possible to misrepresent the length of the fractures or miss them entirely, if the aperture decreases to less than 0.5mm in horizontal fractures or 0.47 mm in vertical fractures. Comparing the results of this analysis between the XZ and YZ slices, there is separation between the curves, suggesting that fractures are preferentially distributed. The CT-scans are not consistently oriented, so the variation between the XZ and YZ cannot be determined. There is variation between the slice with high fracture density, however the majority of the fractures appear to be perpendicular to the YZ slice and parallel to the XZ direction.

Laminations were difficult to distinguish due to the termination in cross-laminations occurring below the resolution of the medical CT-scans. We were able to denote intervals with soft sediment deformation using the CT-scans to aid in the core description. Soft sediment deformation occurs along intervals where we have observed higher density objects, such as nodules or carbonate intervals that were deposited or formed during the time of deposition. An example of this can be seen at ~7471.5'.




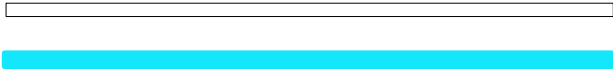


Feature Type	Ct-Scan Marker
Calcite Concretion	Cyan box 
Filled Fractures	Dark red box/line 
Open Fractures	Blue box/line 
Horizontal filled fractures	White/cyan line 
Pyrite Banding	Gold line 
Pyrite Nodules	Black dot 

Table 2-1: This table denotes the designated markers for the CT-Scan descriptions from Figure 2-6 to 2.21

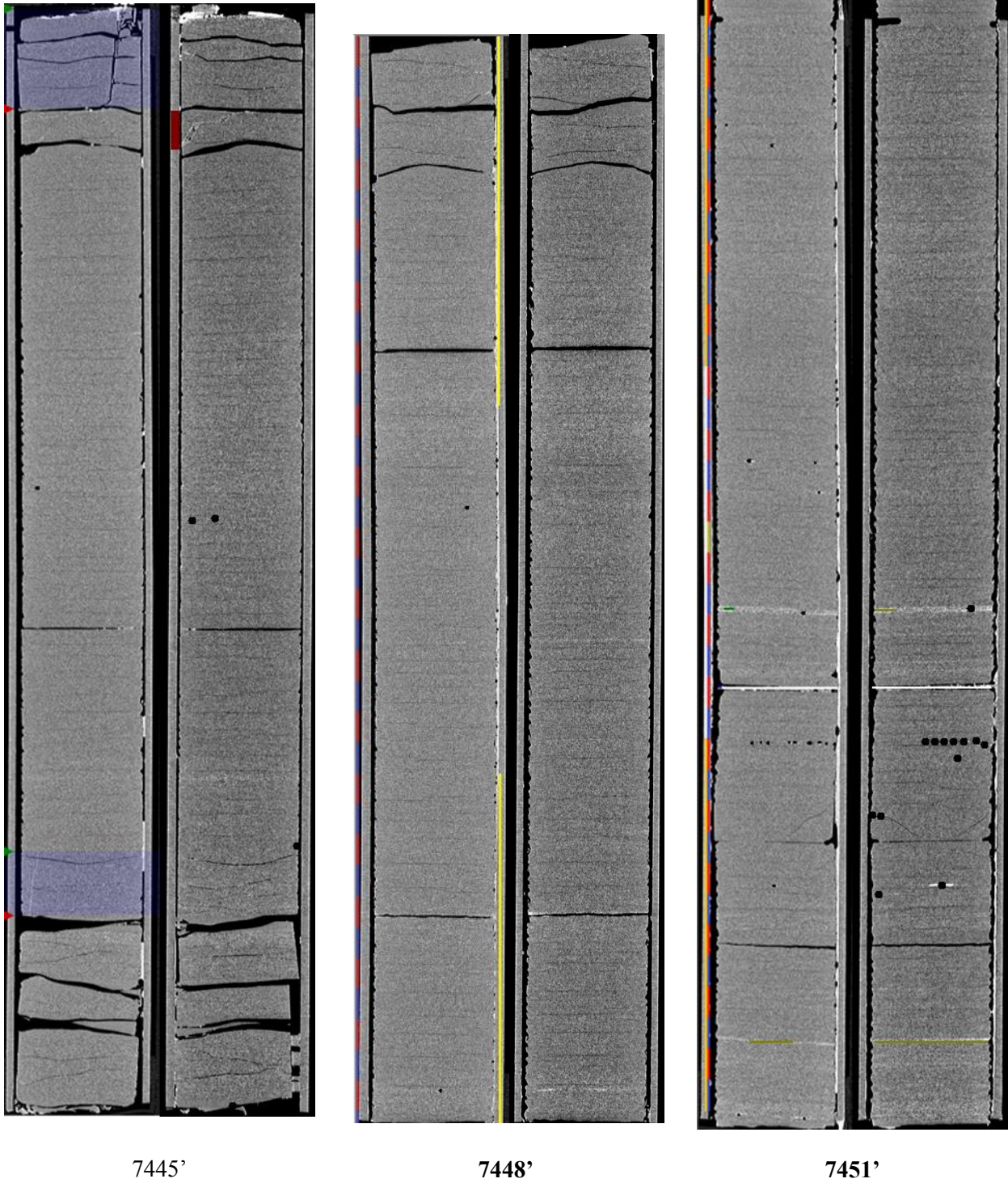
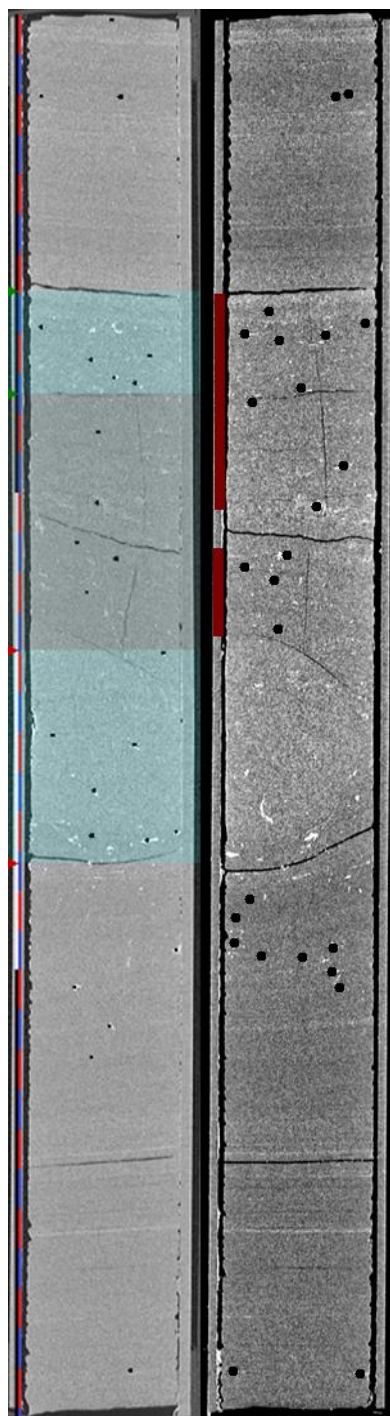
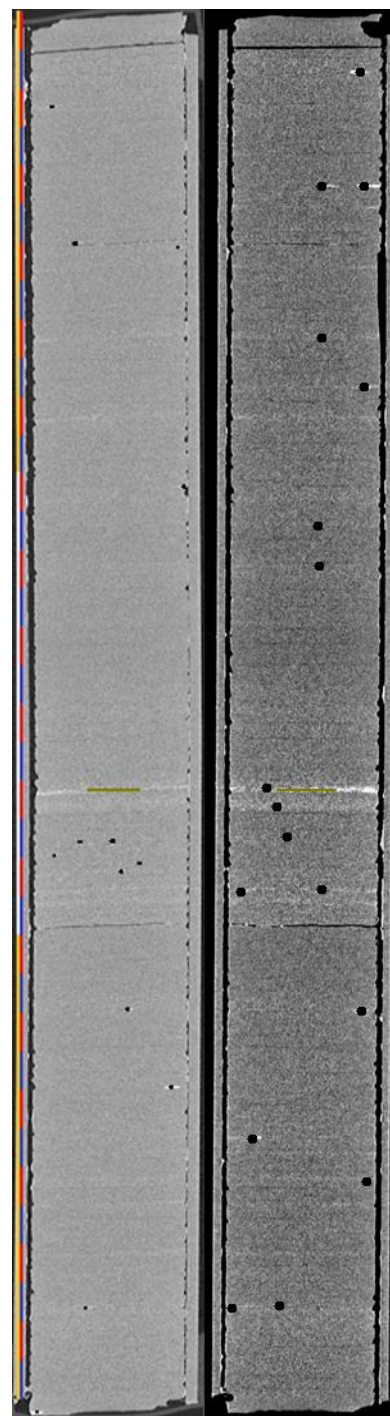


Figure 2-6: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7445' – 7454'. See Table 2.1 for key.

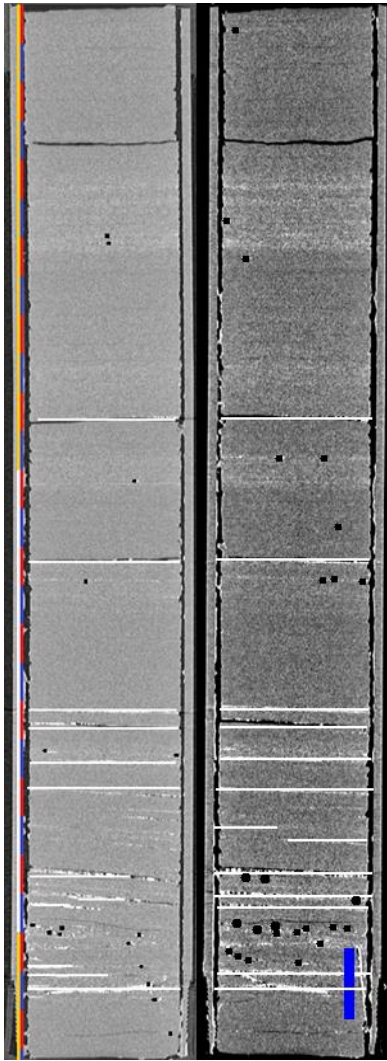


7454'

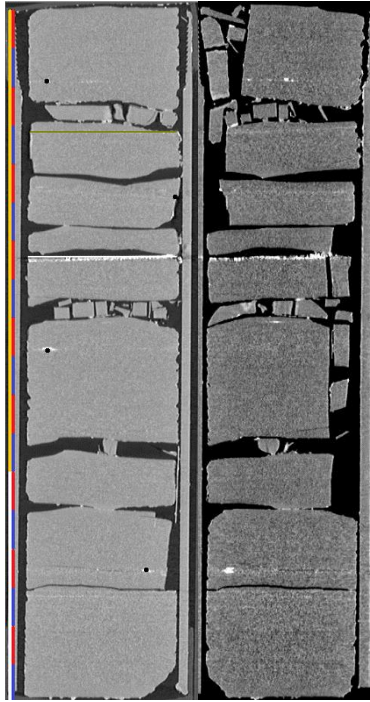


7457'

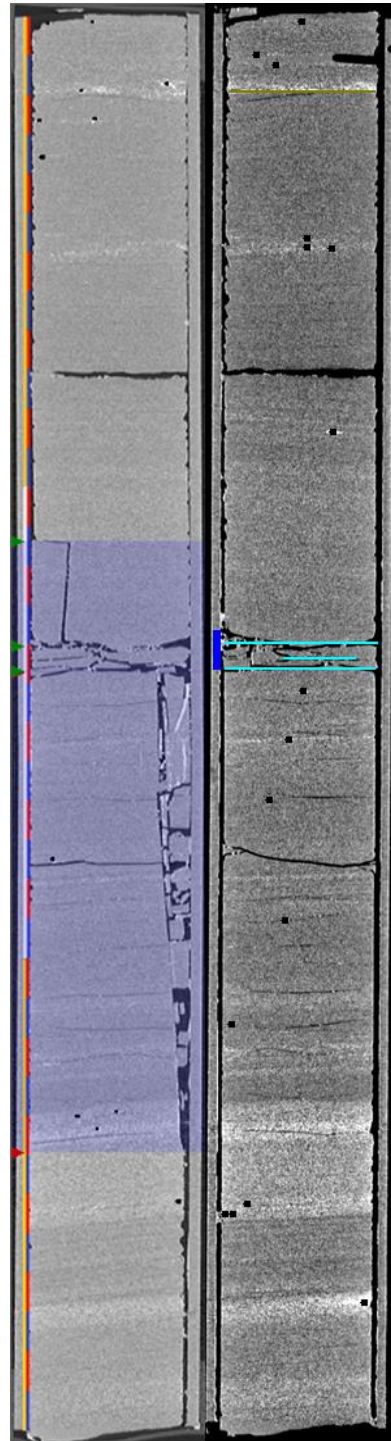
Figure 2-7: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7454' – 7460'



7460'

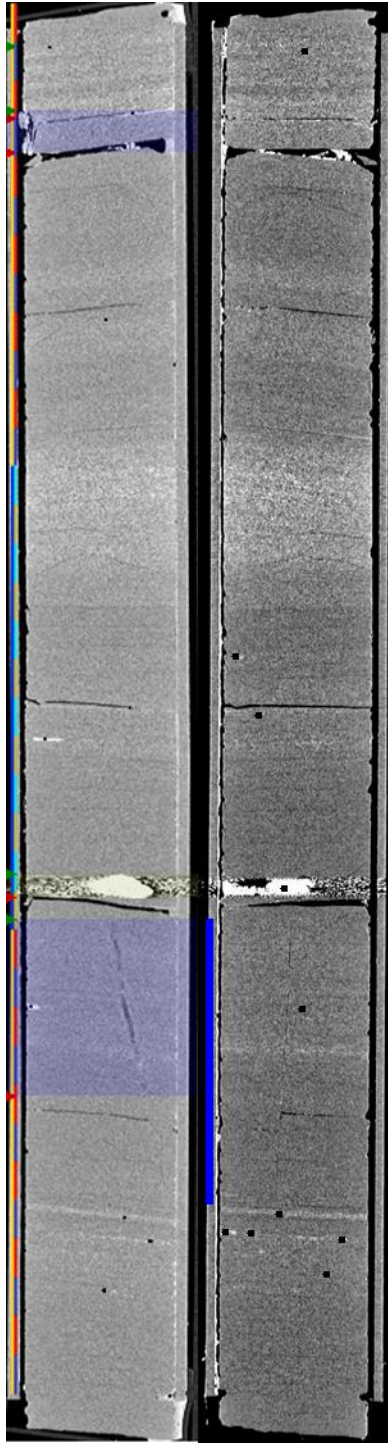


7462'

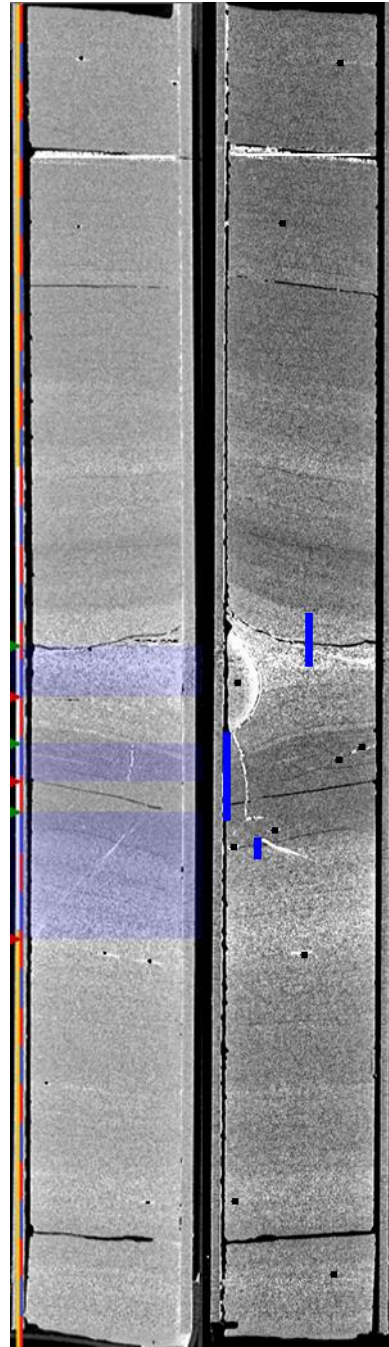


7464'

Figure 2-8: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7460' – 7467'

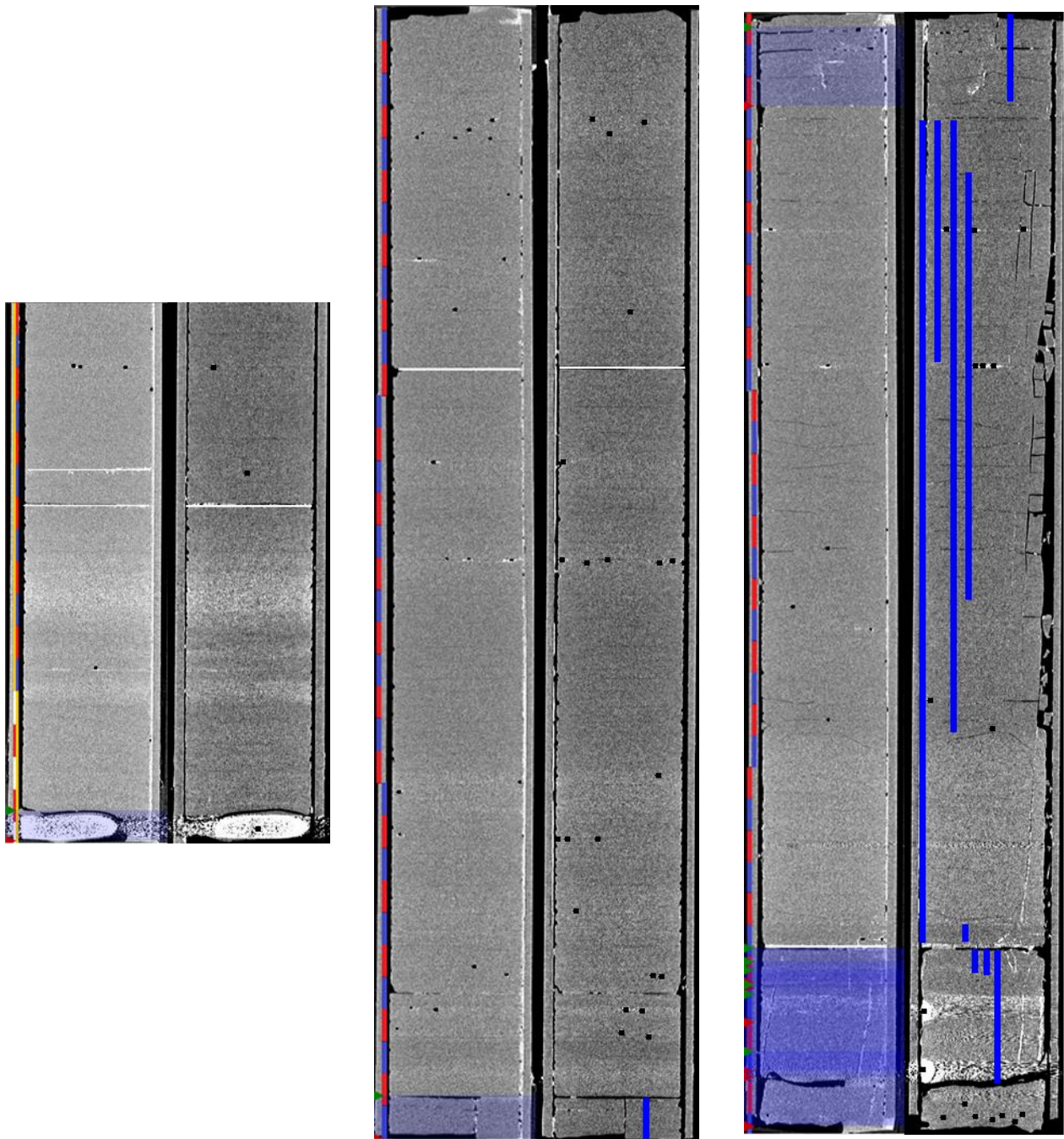


7467'



7470'

Figure 2-9: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7467 – 7473'

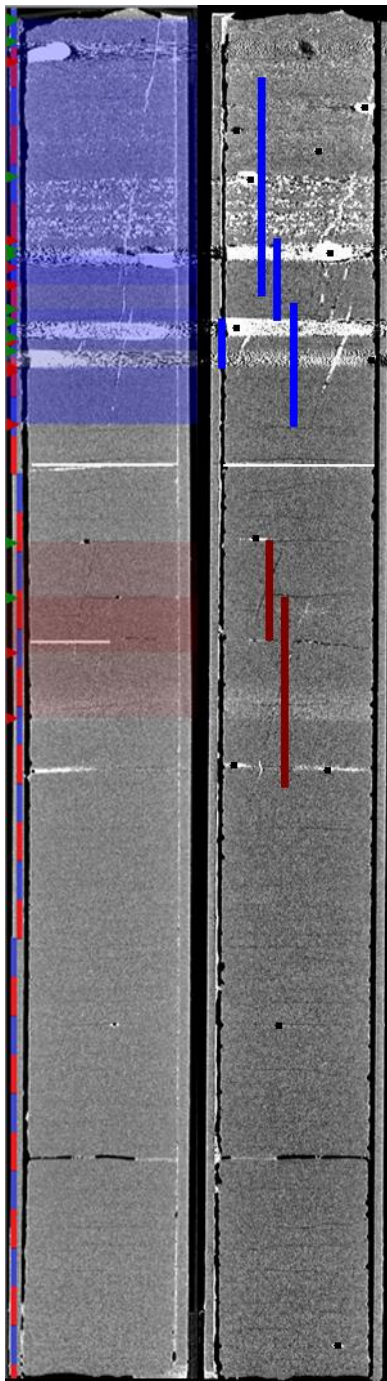


7473'

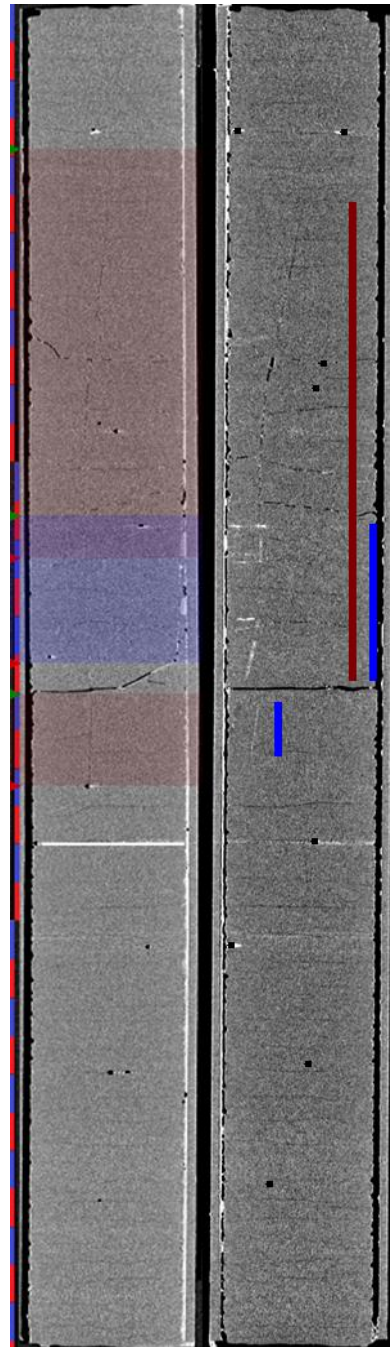
7476'

7479'

Figure 2-10: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7473 – 7481'



7482'



7485'

Figure 2-11: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7482 – 7485'

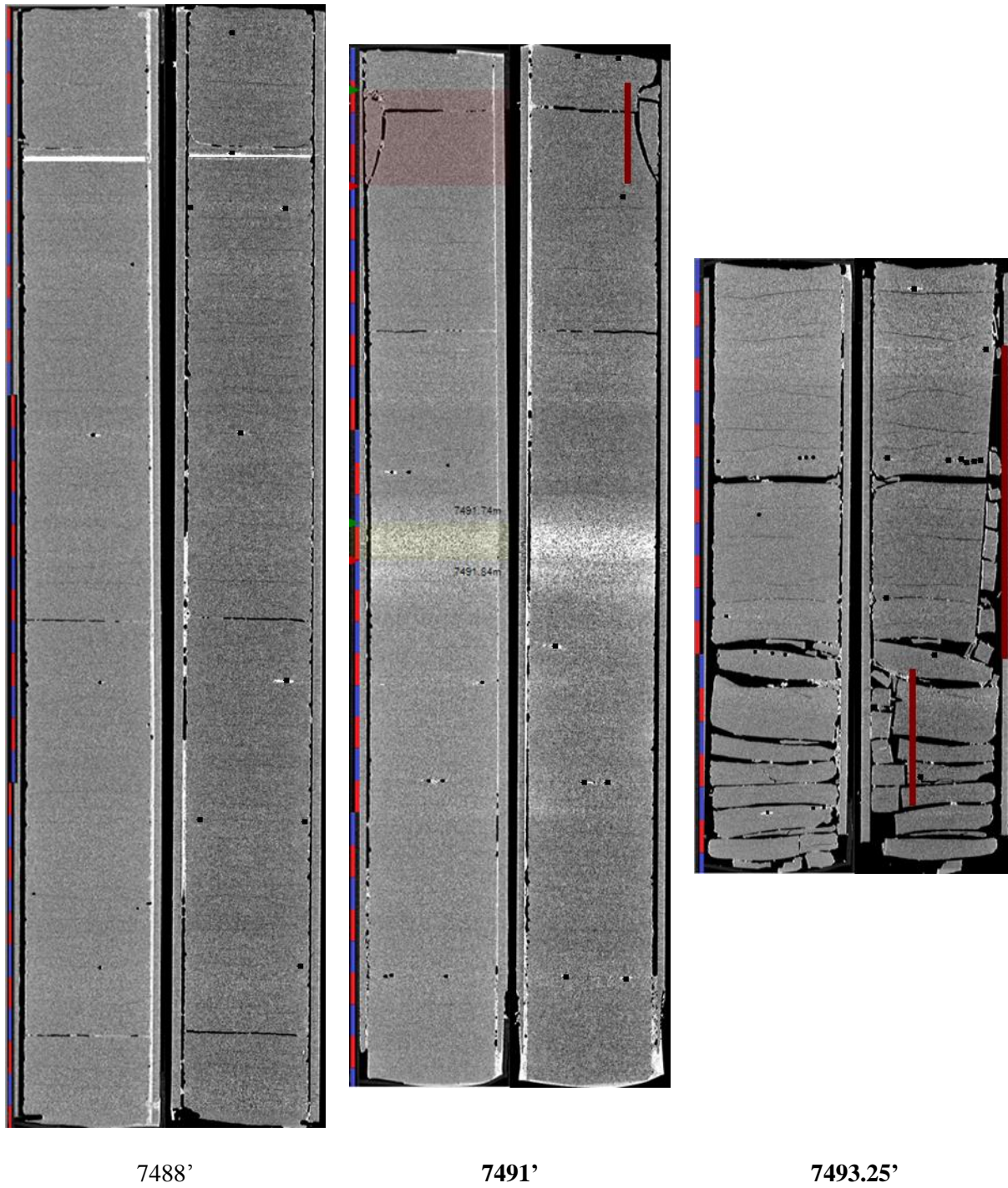
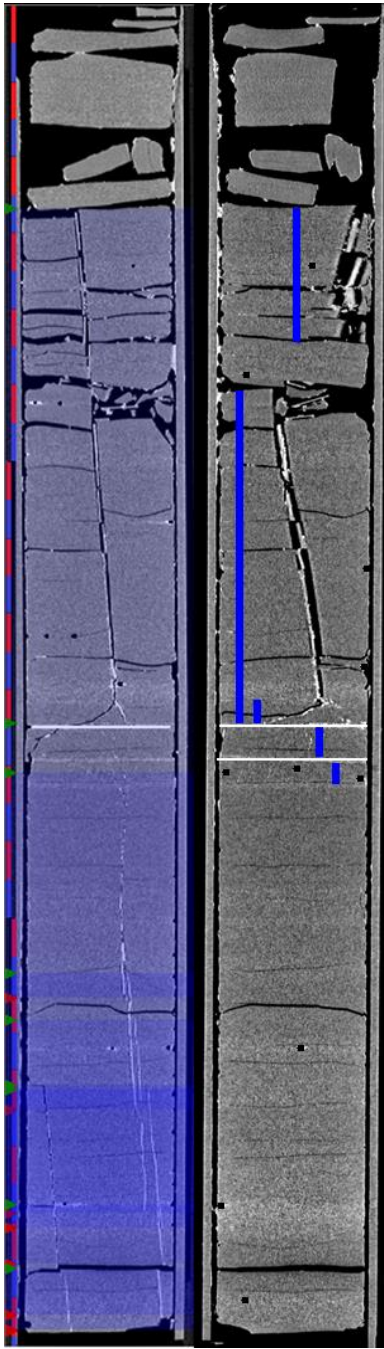
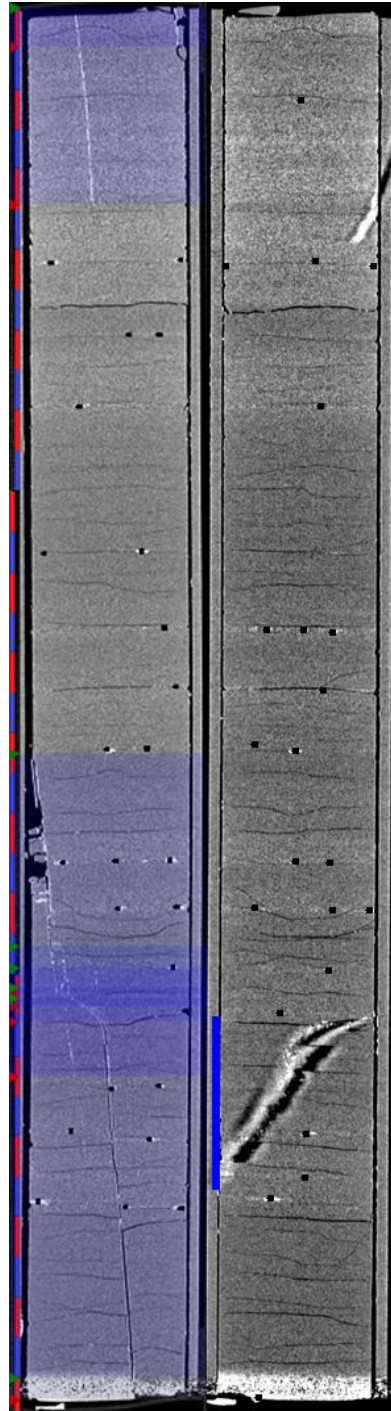


Figure 2-12: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7488 – 7495



7495'



7498'

Figure 2-13: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7495 – 7501

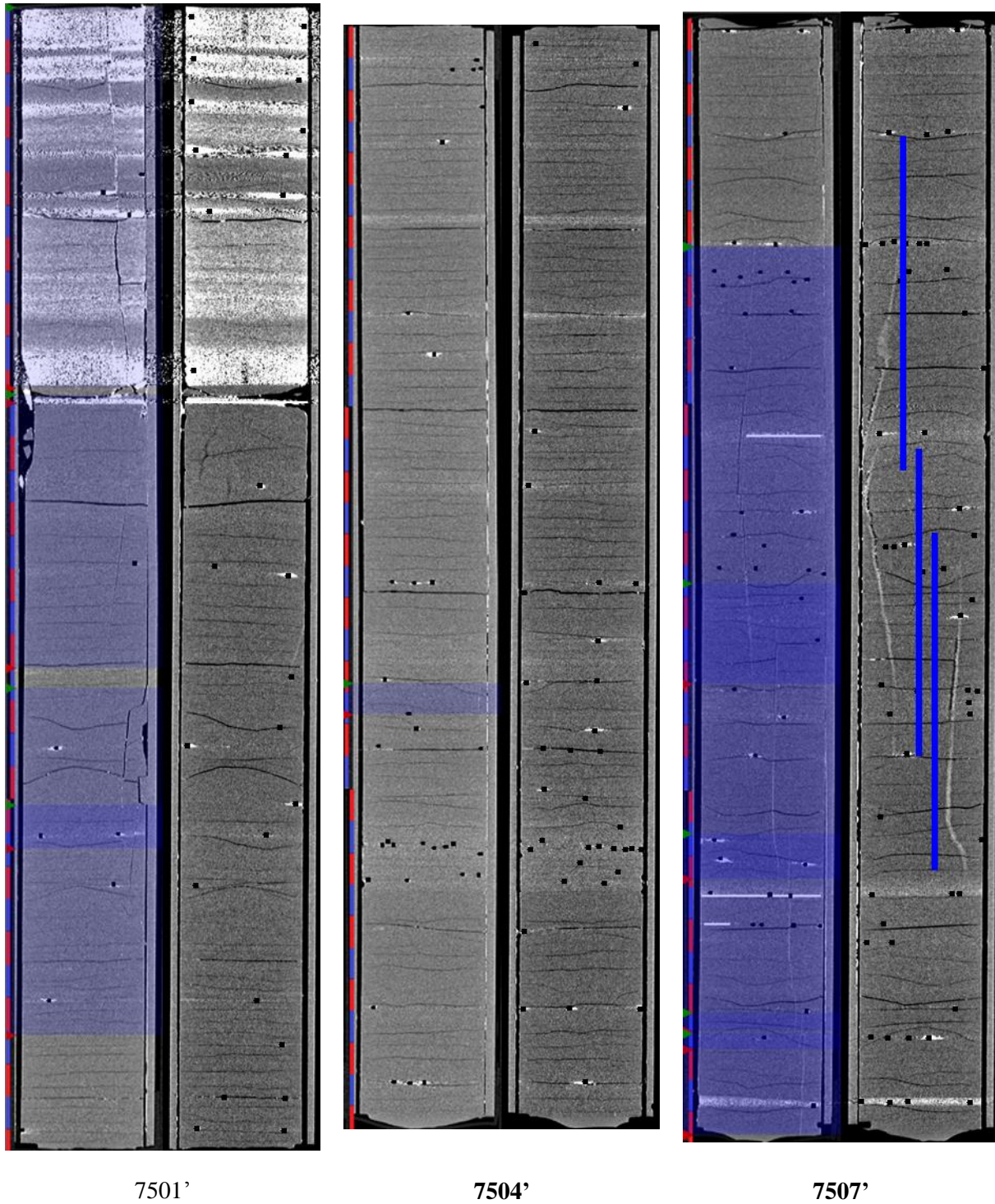
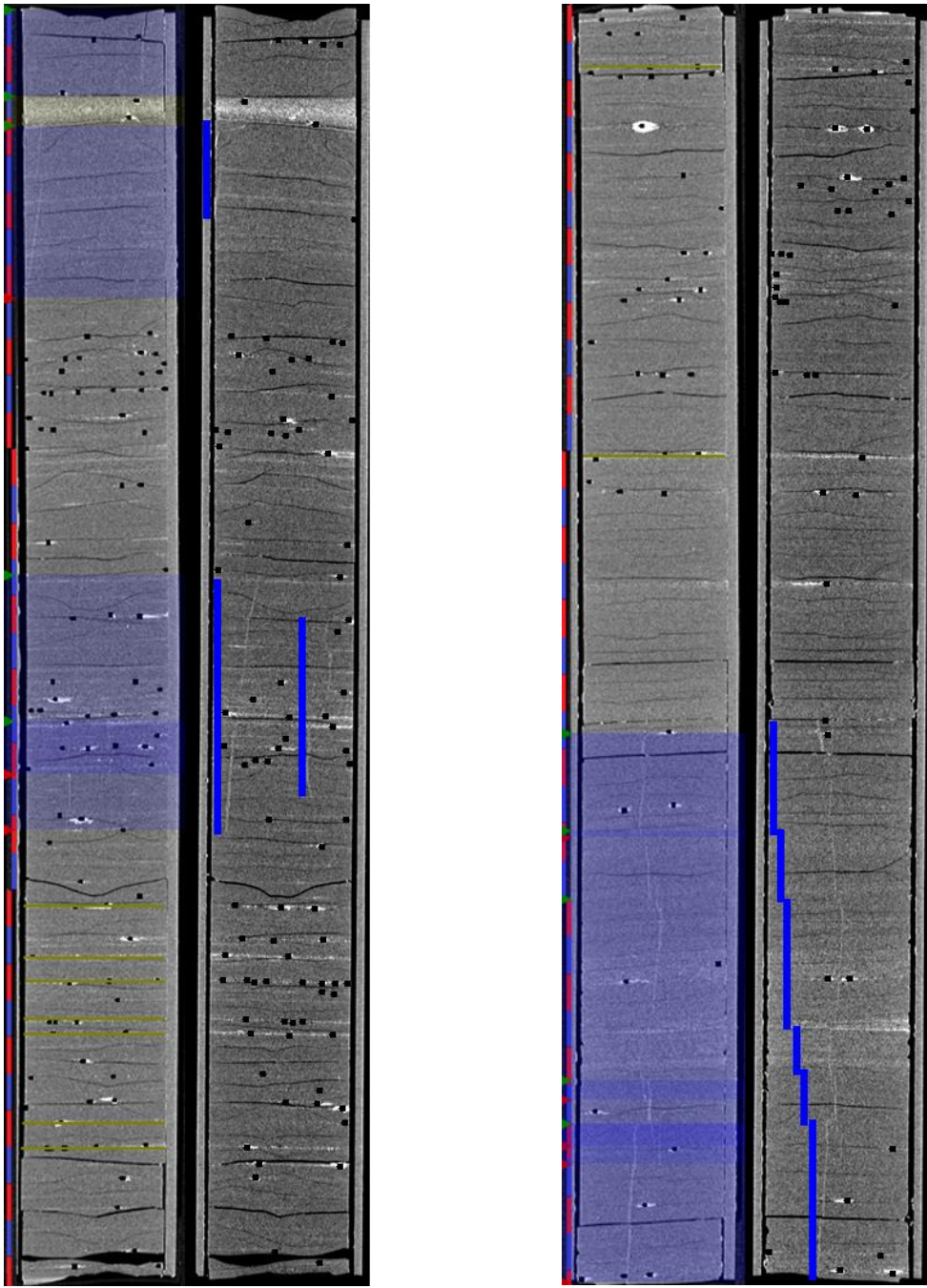


Figure 2-14: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7501 – 7510'



7510'

7513'

Figure 2-15: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7510 – 7516'

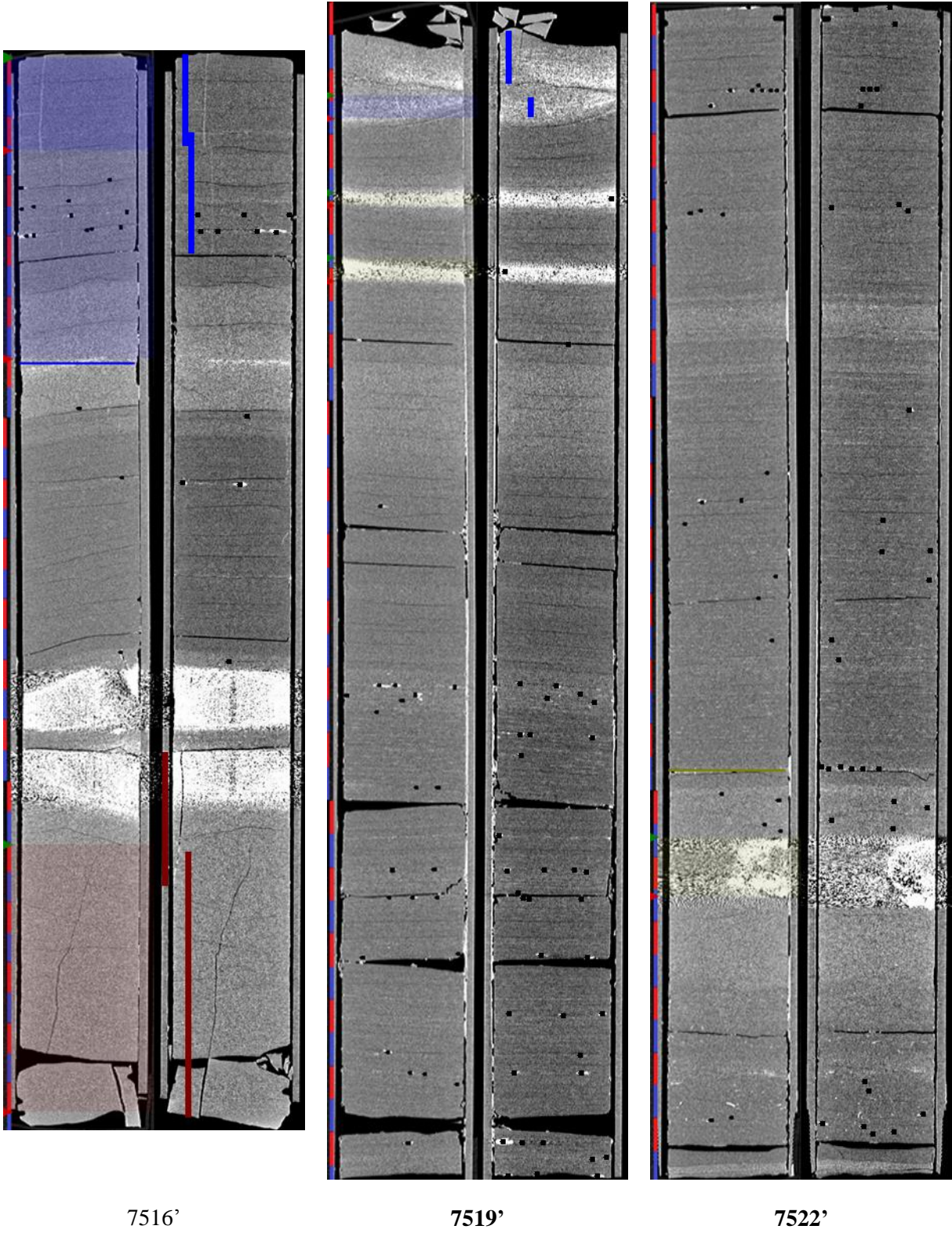
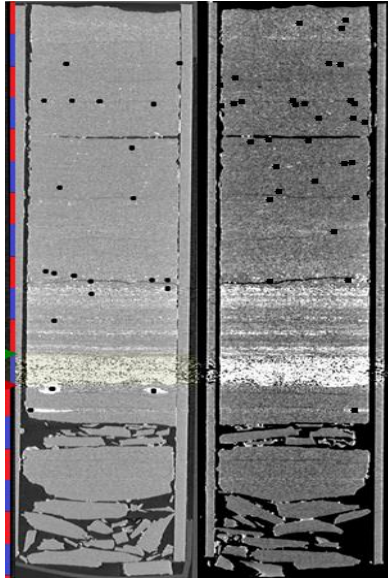
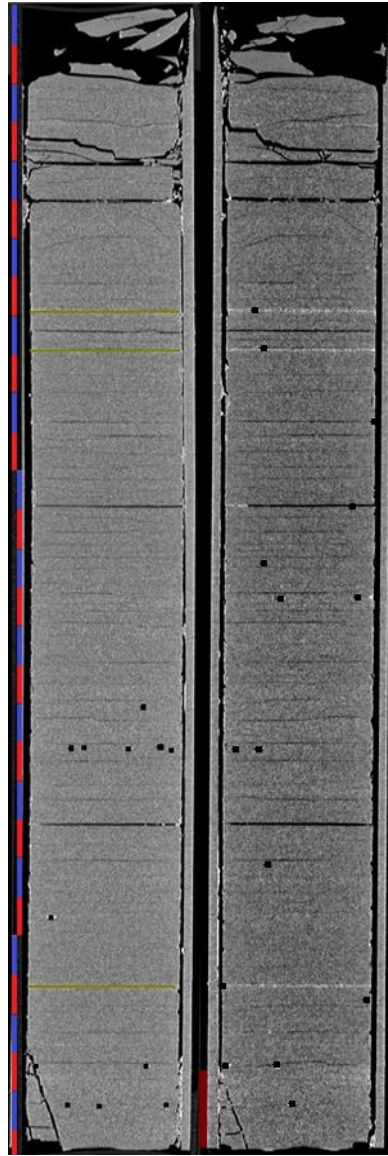


Figure 2-16: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7516 – 7525'

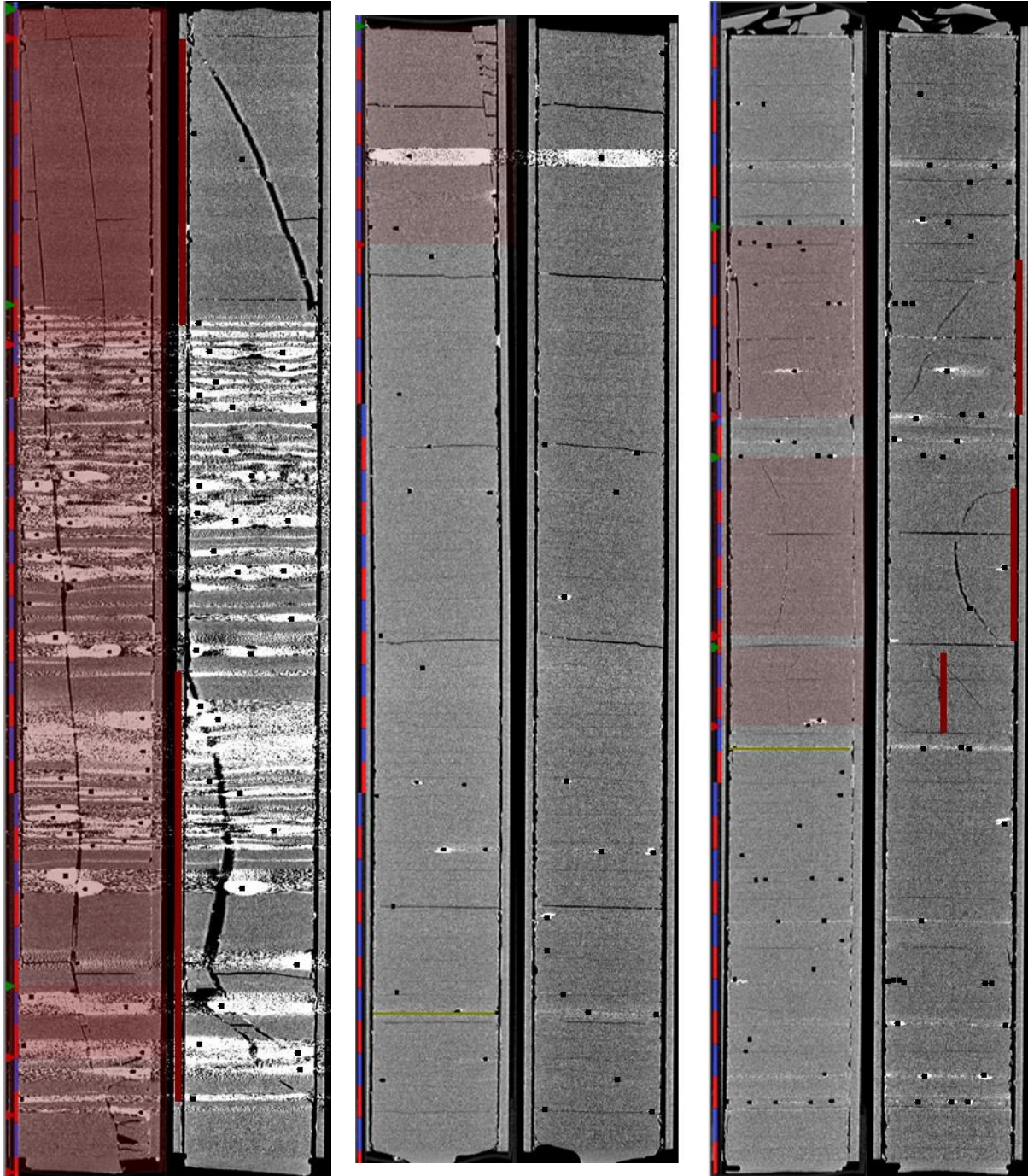


7525'



7526.5'

Figure 2-17: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7525 – 7529'

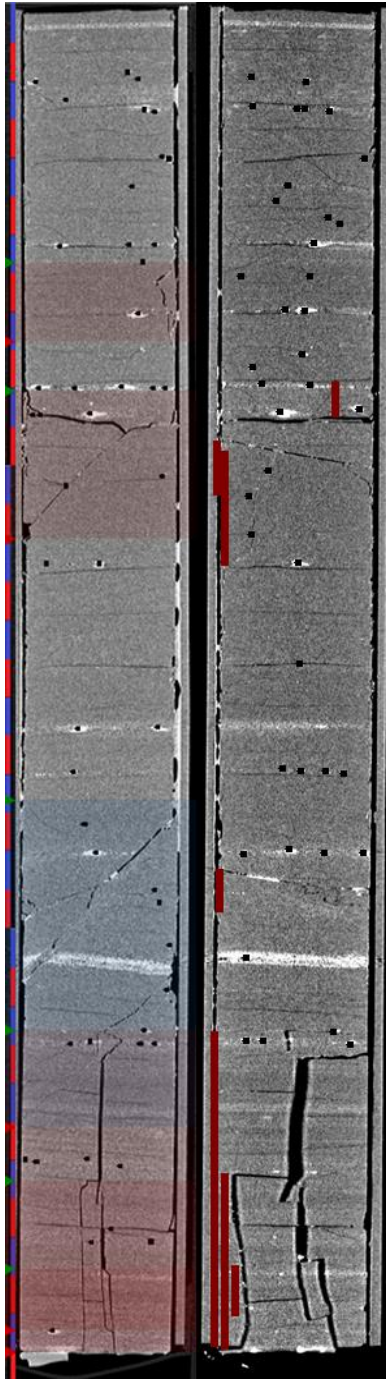


7529'

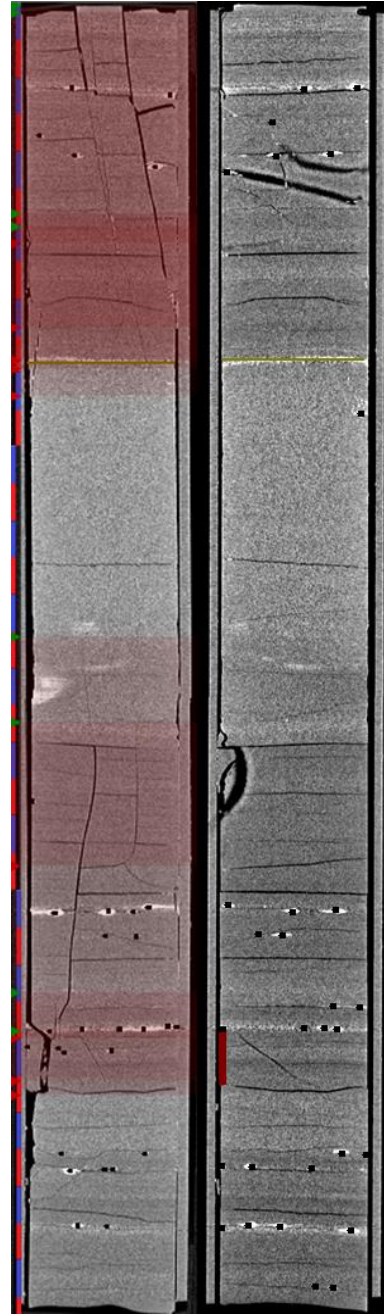
7532'

7535'

Figure 2-18: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7529 – 7538'

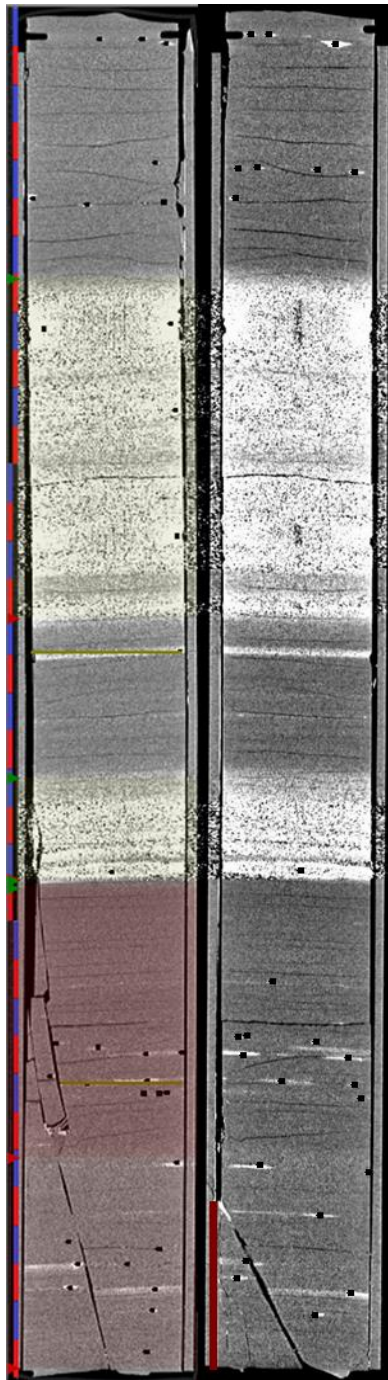


7538'

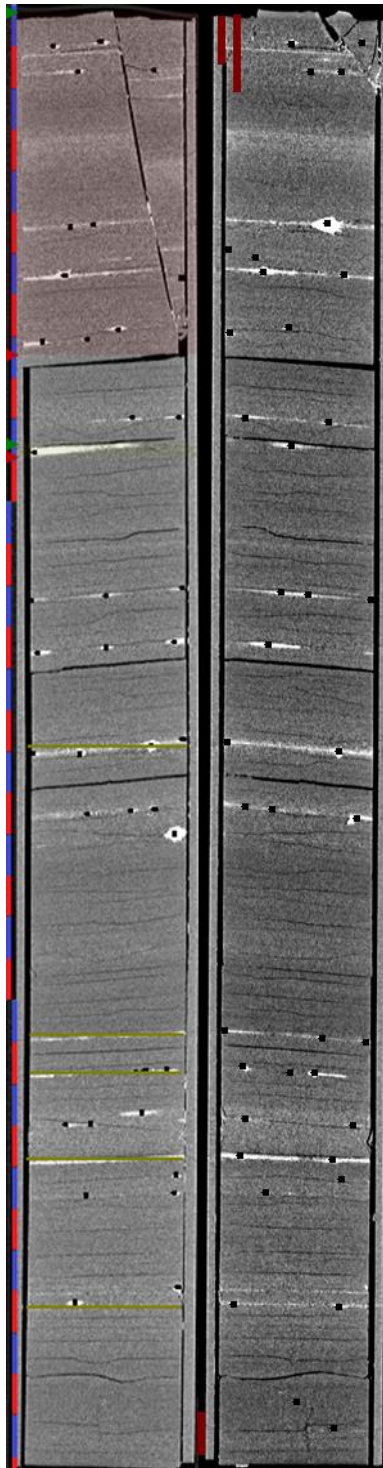


7541'

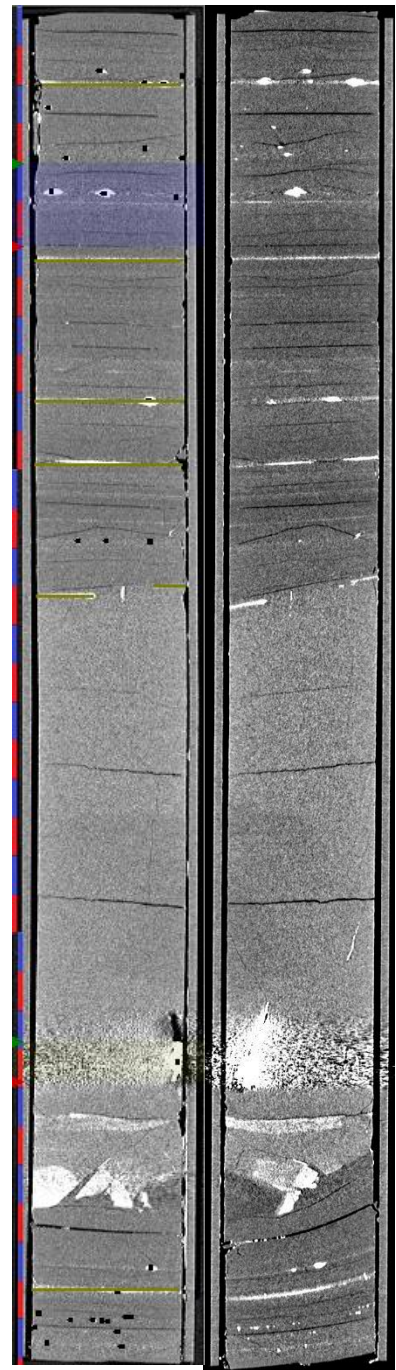
Figure 2-19: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7538 – 7544'



7544'

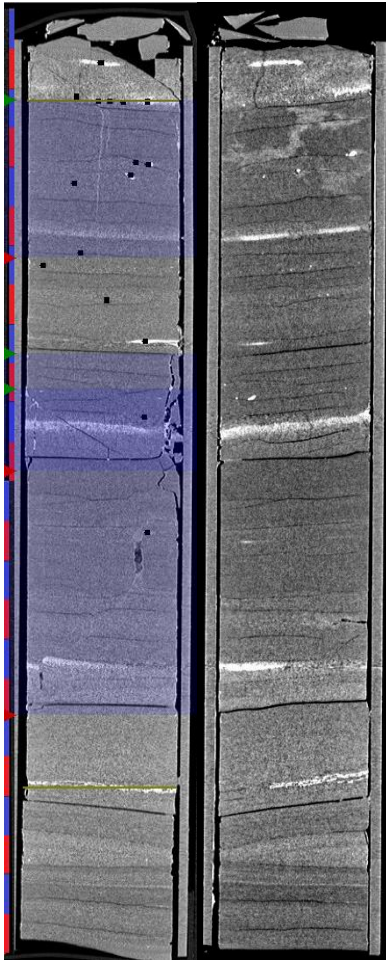


7547'

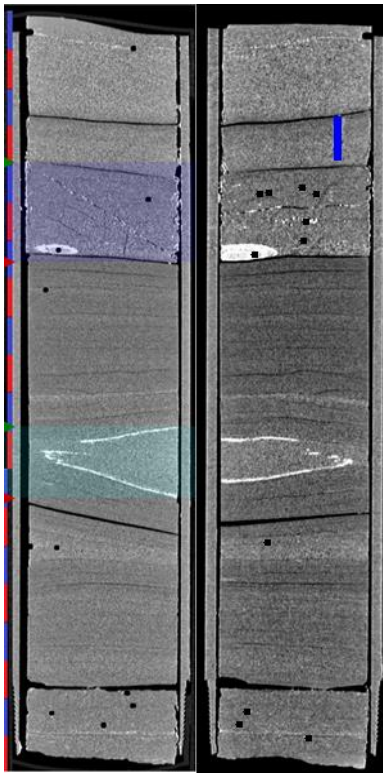


7550'

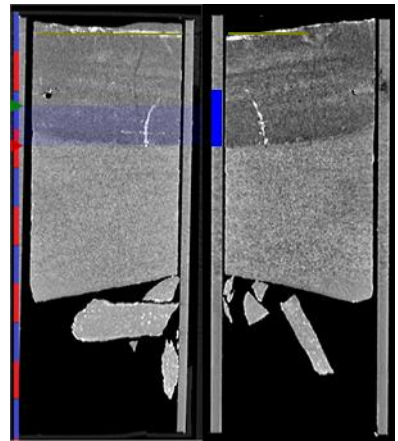
Figure 2-20: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7544 – 7553'



7553'



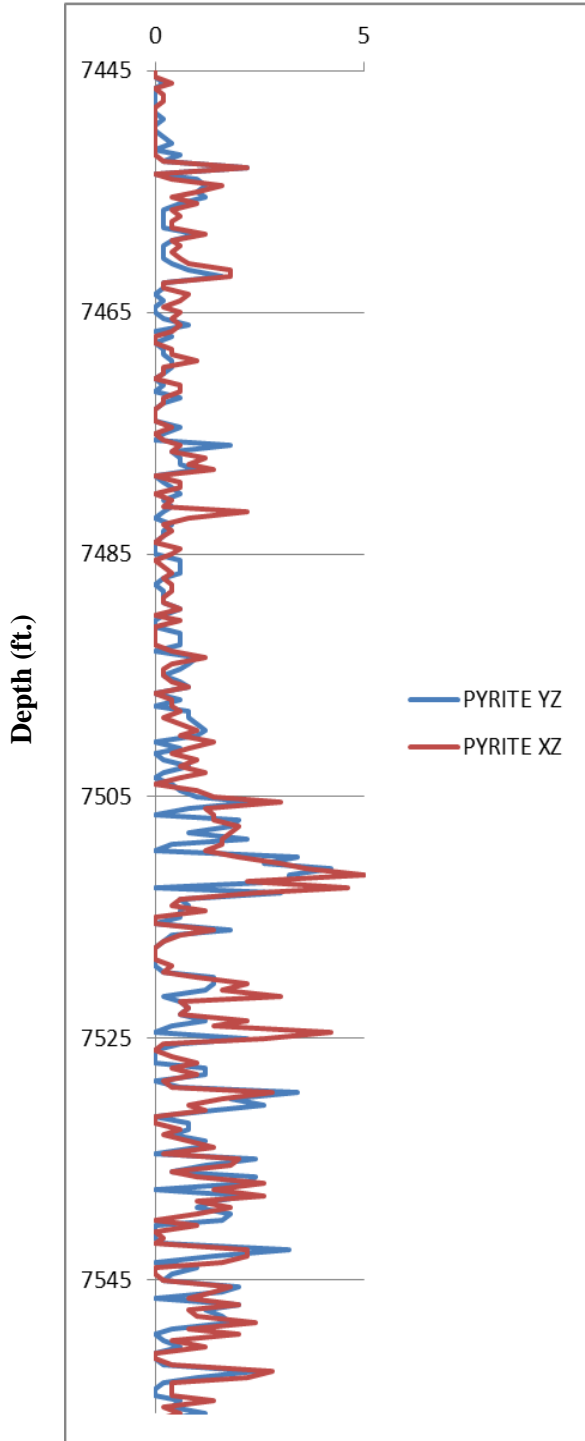
7555'



7557'

Figure 2-21: 2D isolated planes (YZ on left and XZ on right) through the vertical center of the medical CT scans of the MSEEL MIP 3H core from 7553 – 7557'

A. Pyrite density



B. Fracture density (P20)

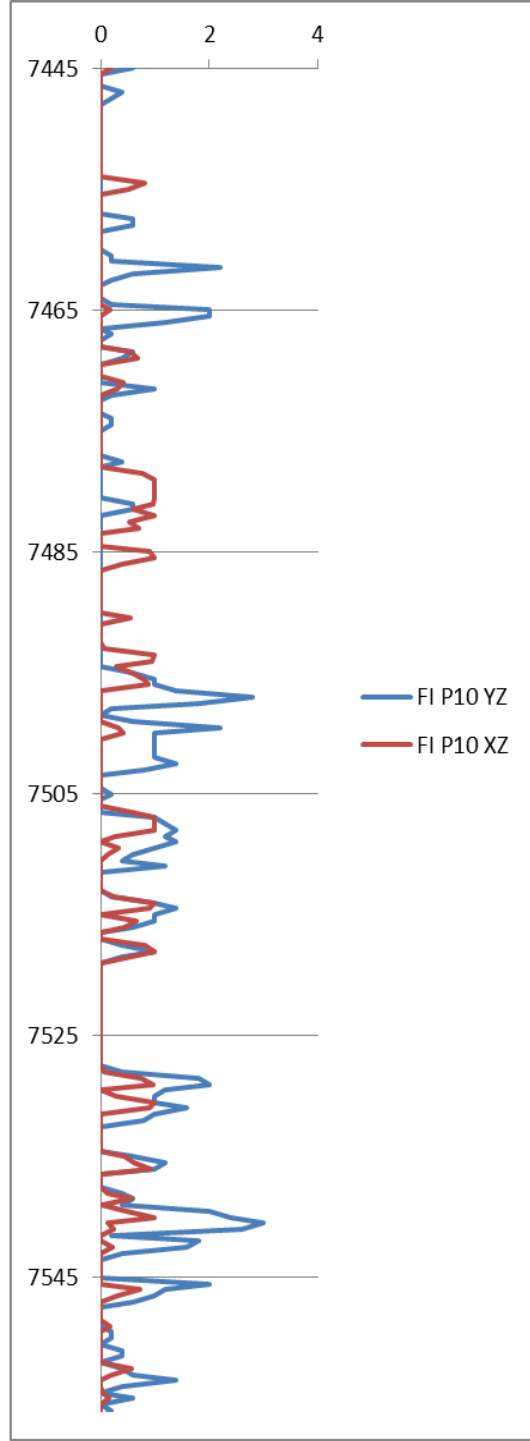


Figure 2-22: This figure shows the results of the pyrite density and fracture density analysis from the medical CT scans. A.(on the right) denotes pyrite density at .5' increments with the blue representing the YZ slice and red representing the XZ slice. (B.)(on the left) shows fracture density within a .5 ft. window, blue represents the YZ slice and red represents the XZ slice.

In addition to structural descriptions the medical CT-scans can aid in the breakout of the macro-facies. Figure 2-23, shows average grayscale versus depth compared with our macro-facies. Grayscales generally range from about 1600 to 2200, high values relate to denser minerals and lower values have less dense minerals. Low gray-scale values (<1600) are associated with missing material, either due to a fracture or missing core. High gray-scale values (>2400) are associated with nodules and other high-density minerals. The lower Marcellus has an overall lower grayscale value (1700 on average) compared to the upper portion of the middle Marcellus and the upper Marcellus (1900 on average). We also see a slight increase in the frequency of carbonate intervals in the lower Marcellus. This is particularly clear when looking at the Marcellus-Onondaga contact, where there is a high frequency change from high to low grayscale values. In addition to facies information the average gray scale can be used to pick of rubble zones and high-density minerals. These zones sit distinctly below and above the average grayscale trends, respectively.

Average grayscale from CT-Scan images

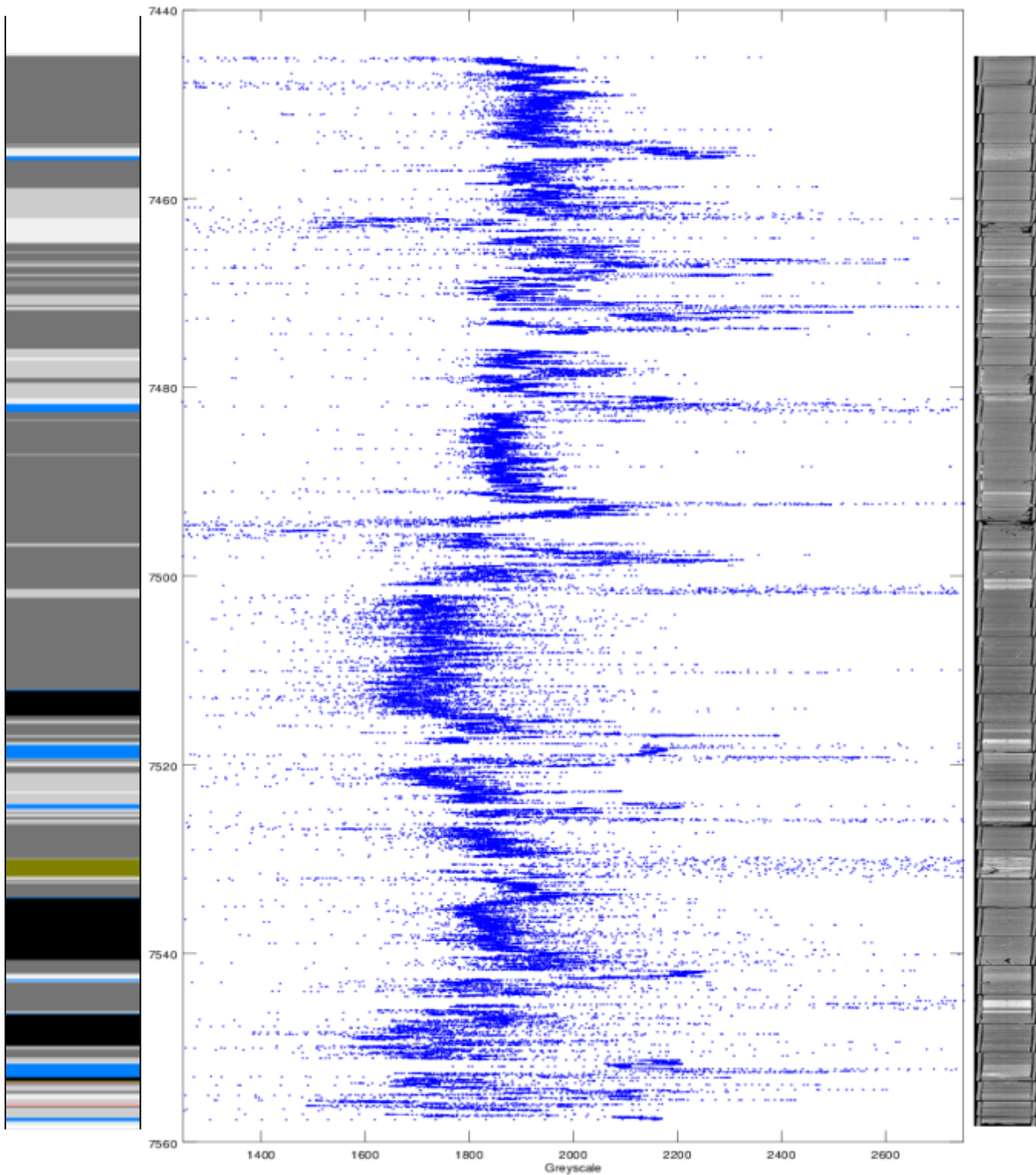


Figure 2-23: Shown in the plot to the left is an example of how CT-scan imagery was used to aid the macro-facies description. Average grayscales from each slice (.5mm) plotted with depth. Grayscales generally range from about 1600 to 2200, high values relate to denser minerals and lower values have less dense minerals. Low gray scale values (<1600) are associated with missing material, either due to a fracture or missing core. High gray scale values (>2400) are associated with nodules and other high-density minerals.

2.2 Meso-Facies

Meso-scale (core-scale) lithofacies analysis is derived from the properties that represent the lithology. For mudrock and shale reservoirs, lithofacies are often differentiated by total organic content and mineralogy (Wang 2012, Wang and Carr 2013, Bhattacharya and Carr 2016). In this section, we investigate organic matter prediction, mineralogy prediction, and meso-facies prediction between MIP-3H and MIP-4H.

Organic Matter Evaluation:

Total organic carbon (TOC) was determined from the MIP3H core using the source rock analyzer (SRA) at National Energy Technology Laboratory (Chloe Wonnell pers. comm.). The TOC core data were used to calibrate and confirm TOC derived from logs. There were a total 47 TOC samples from the MIP3H well taken from roughly every 3 ft (1m) with 5 repeat samples to confirm accuracy. TOC ranges from 2.6 wt% to 10.9 wt% through the Marcellus. TOC values generally decrease from the lower Marcellus to upper with three peaks at the base of each of the high gamma-ray intervals. Specific values for SRA derived TOC are in Appendix A.

Predicting TOC from Log Data:

Numerous methods exist to determine TOC from common well logs. In this study Schmoker's Method, Passey's Method, Gamma Ray derived TOC, and Uranium derived TOC were used to derive TOC from well logs and were compared with the SRA TOC to identify the best method.

Schmoker's Method uses the inverse relationship between density and organic content, mainly through increasing relatively low-density kerogen content (1.1 to 1.8 grams/cc) compared to more typical quartz and carbonate densities (2.64 to 2.71 grams/cc) decreasing the observed density to determine the TOC (Schmoker, 1981). Figure 2-24, shows the relationship between

density and core TOC. There is a moderate correlation between core TOC and density with an r^2 of .558. The equation tracks the core TOC closely in the upper and middle Marcellus, however it under-predicts TOC in the lower Marcellus. This is likely due to the increase in the higher density pyrite through this zone (5.01 grams/cc).

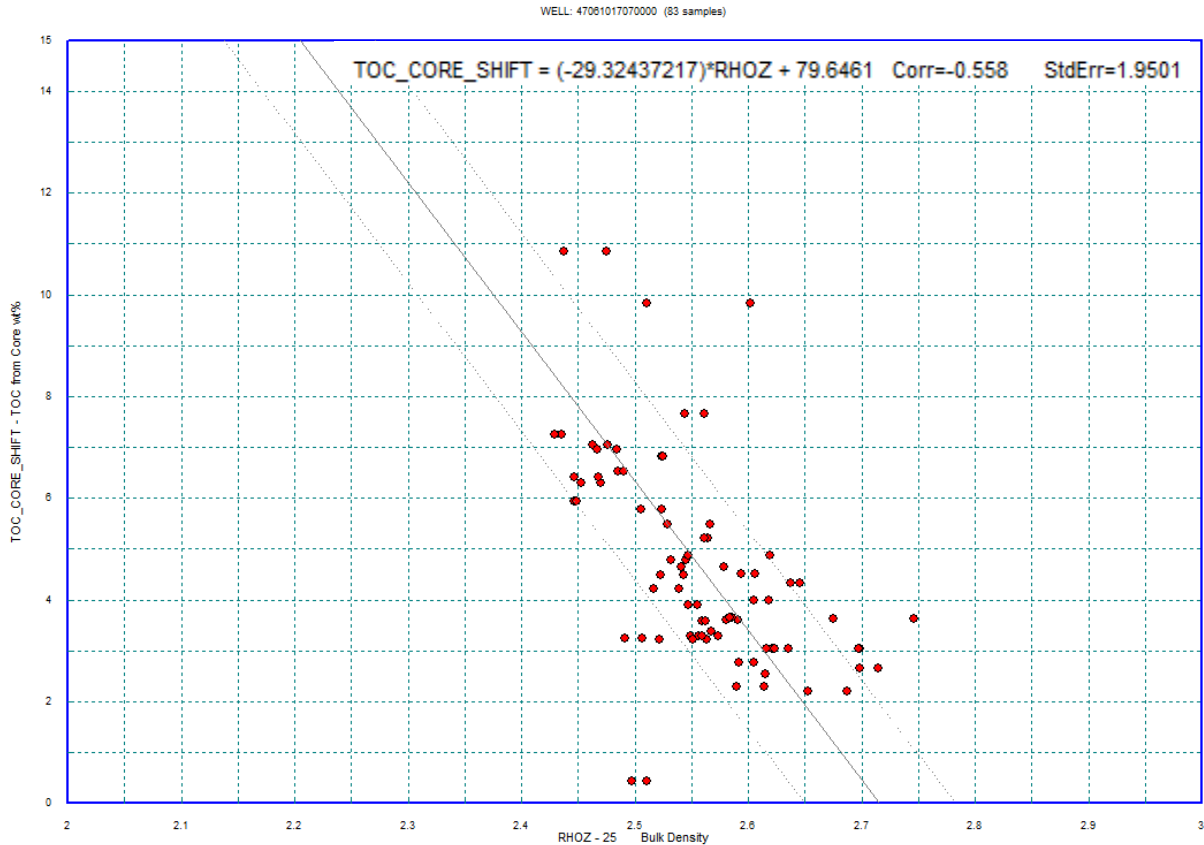


Figure 2-24: Cross-plot of Schmoker’s method where RHOB and Core TOC, the equation is the linear relationship between the two TOC measurements.

Passey’s Method utilizes the relationship between sonic transit time (DT) and resistivity (R) to determine the amount of kerogen in source rocks (Passey, et al., 1990). The Passey’s Equation is a two-part equation:

$$(1) \text{DLogR} = \log_{10}(R/R_{\text{baseline}}) + 0.02 * (DT - DT_{\text{baseline}})$$

Where, R is resistivity, DT is the measured transit time in $\mu\text{s}/\text{ft}$, R_{baseline} and DT_{baseline} are corresponding values baselined in non-source, clay-rich rocks. In our calculation, we use a resistivity baseline of 72 ohm-m and DT baseline of 81 $\mu\text{s}/\text{ft}$, taken from the Mahantango at 7380 ft (2249.43 m).

$$(2) \text{ TOC} = (\text{DLogR}) * 10^{(2.297 - 0.1688 * \text{LOM})}$$

Where, LOM is maturity from 5 -12, 7 being the onset of maturity for oil-prone reservoirs and 12 being over mature. In our calculation, we use an LOM of 8.5 determined through a x-plot of TOC and DLogR (Figure 2-25).

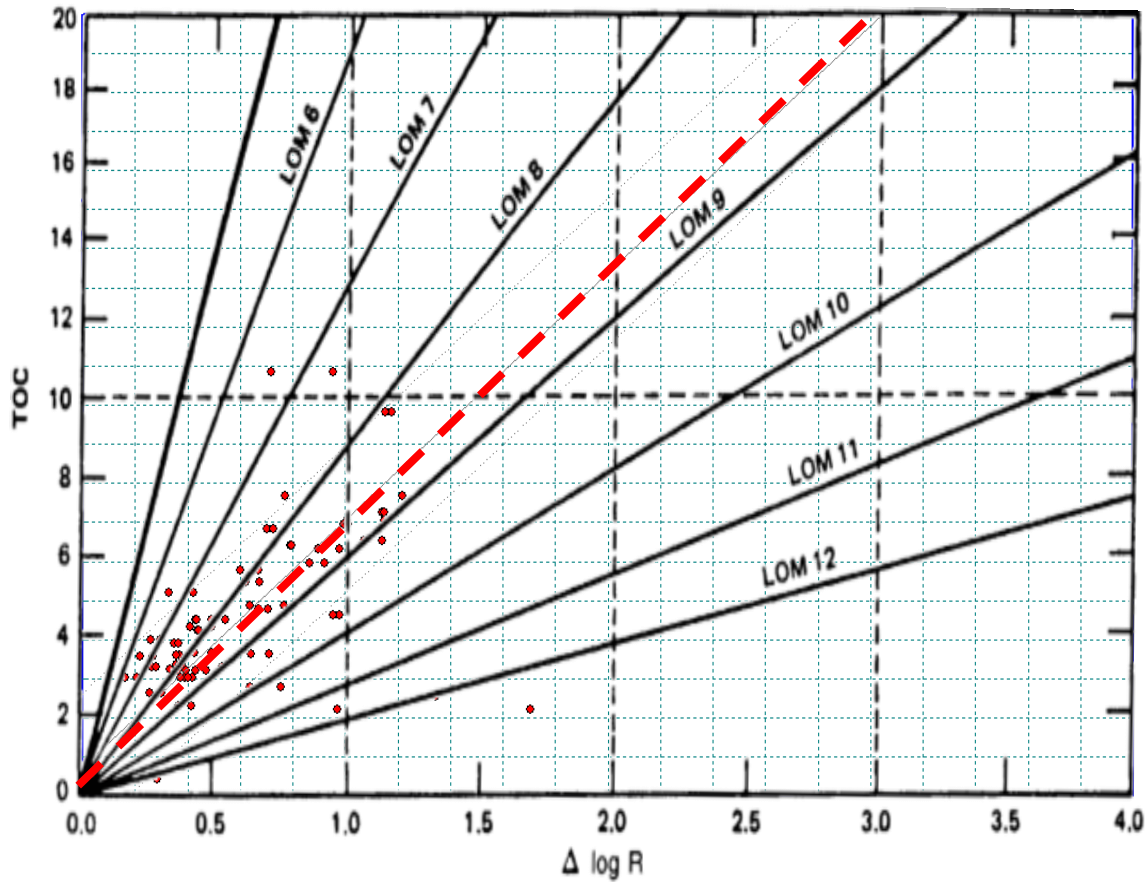


Figure 2-25: Crossplot of TOC and DLogR, the red line denotes the linear fit from Petra used to determine the approximate LOM.

TOC determined using Passey's method has an r^2 of .585. The log curve has a strong fit in the upper and middle Marcellus, however, it breaks down when predicting TOC across the carbonate intervals (over-predicting TOC) and in the most organic portion of the lower Marcellus (under-predicting TOC) (Figure

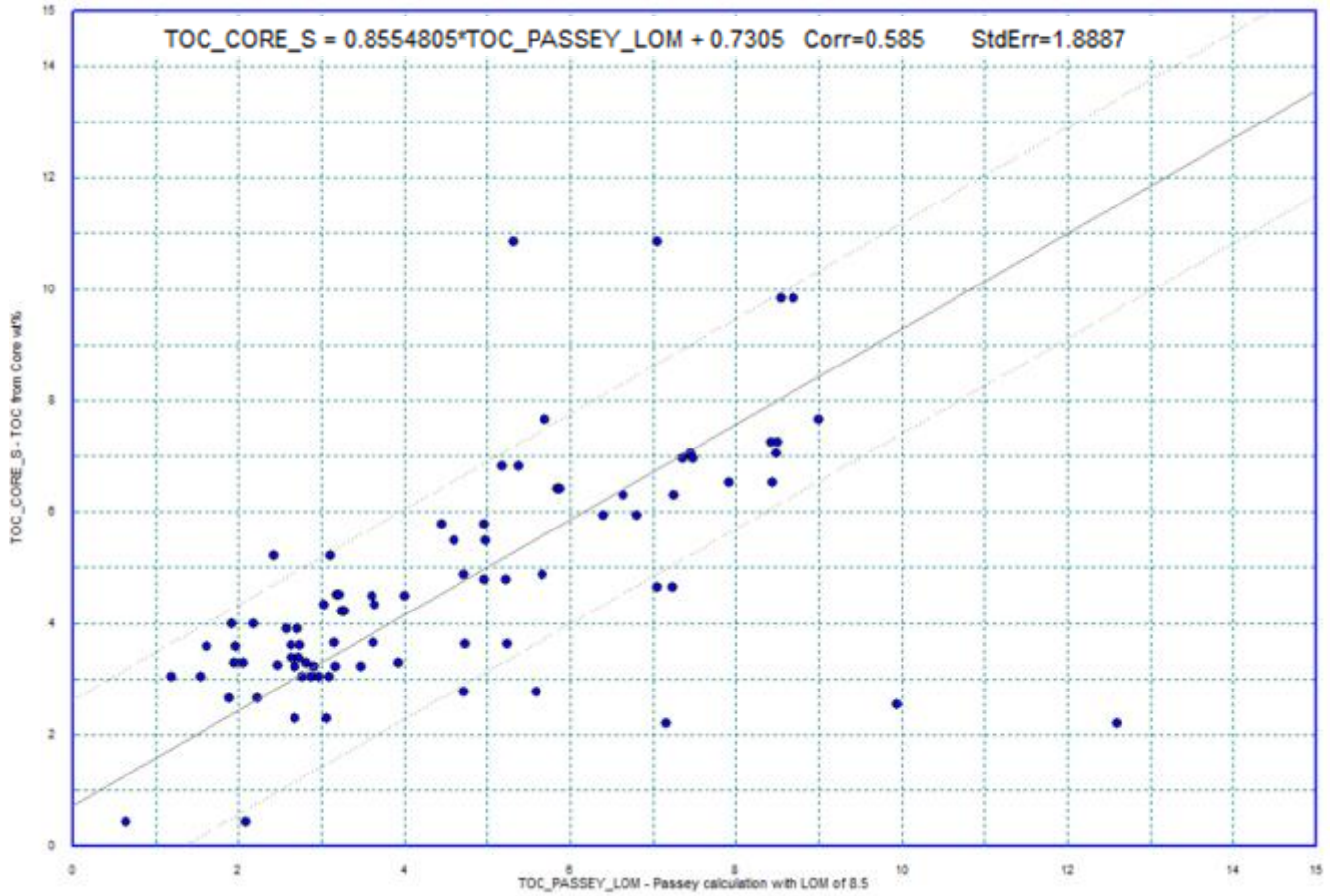


Figure 2-26: cross-plot of Passey's calculated TOC and Core TOC, the equation is the linear relationship between the two TOC measurements.

2-26).

Gamma ray and uranium derived correlations utilize the linear relationship between TOC and uranium via uranyl carbonate complexes, which occur in oxygen limited zones (Algeo & Maynard, 2004). Figure 2-27, shows the linear relationship between core TOC and gamma ray and Figure 2-28 shows the linear relationship between uranium and core TOC. TOC correlations have r^2 values great than 0.75, TOC from gamma ray has a correlation of .77 and TOC from

uranium has an r^2 of .81. Both gamma ray and uranium derived TOC track the core derived TOC closely (Figure 2-28). Both slightly over predict TOC at the gamma ray peaks, however uranium derived TOC is closer to the core TOC values at these points ($\pm 2\text{wt}\%$).

All methods track the core derived TOC from the source rock analyzer and provide higher depth resolution while sacrificing some accuracy. However, given uncertainties due to core-log depth shifts and the differences in sample resolution (0.25 feet for logs and 3 feet for core) results are interpreted as good to excellent (Figure 2-29).

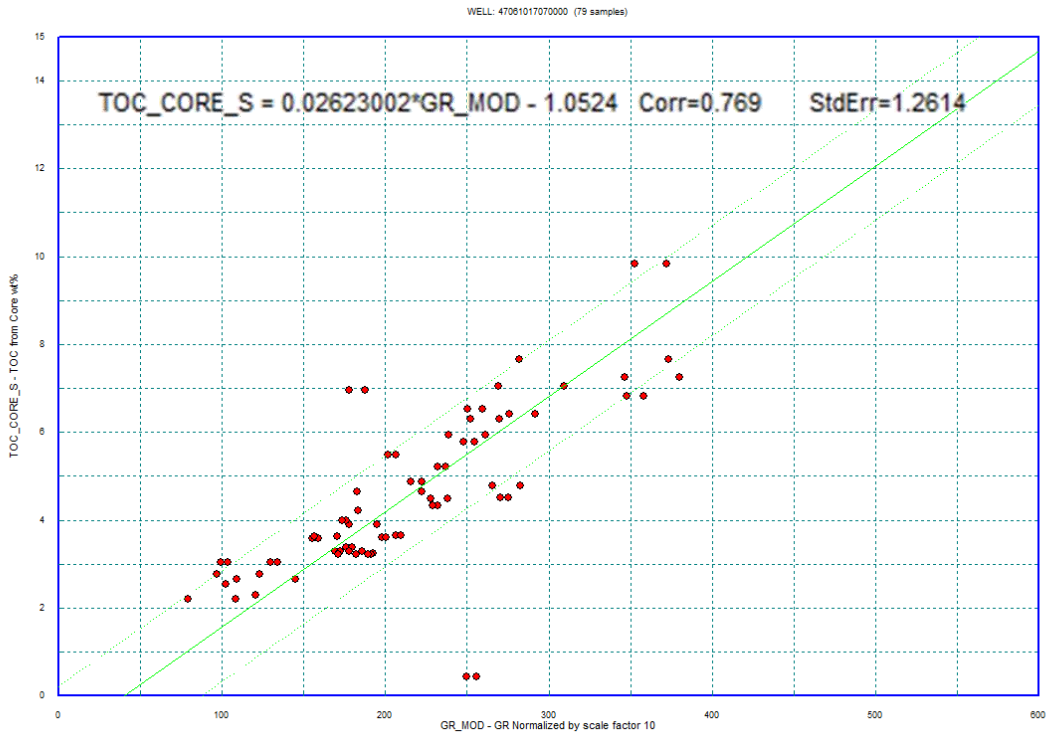


Figure 2-27: Crossplot of gamma ray and core TOC, the green line represents the linear fit for the equation at the top of the crossplot.

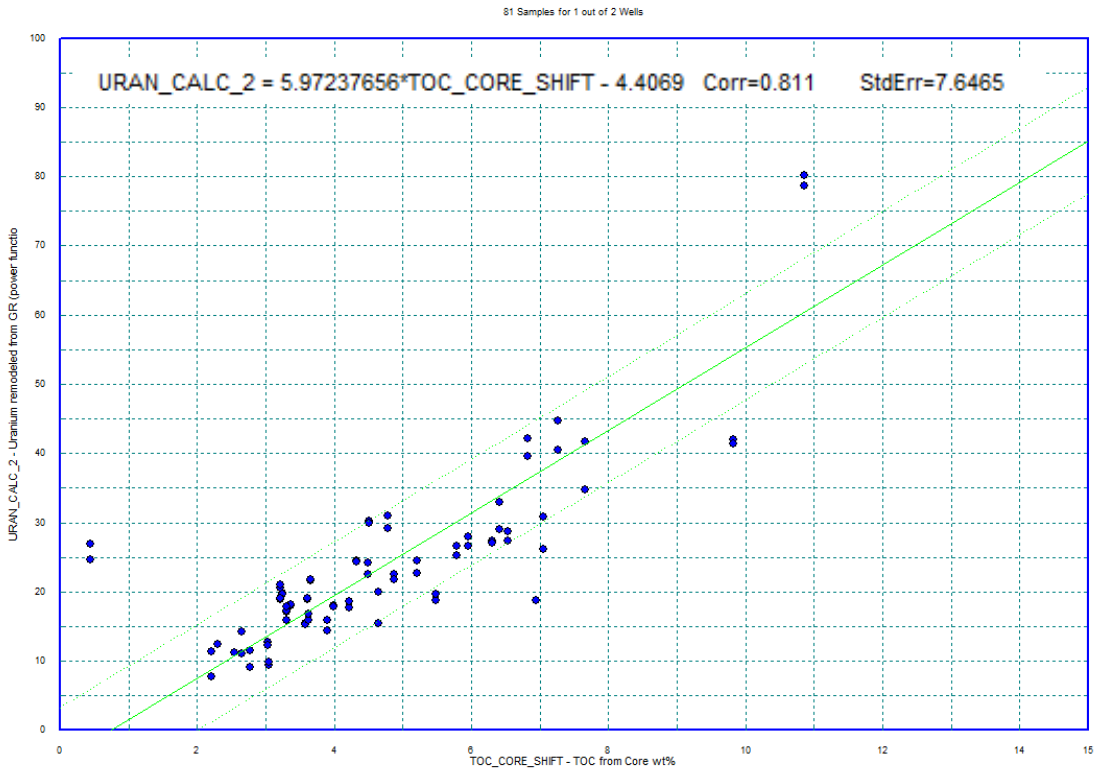


Figure 2-28: Crossplot of uranium and core TOC, the green line represents the linear fit for the equation at the top of the crossplot.

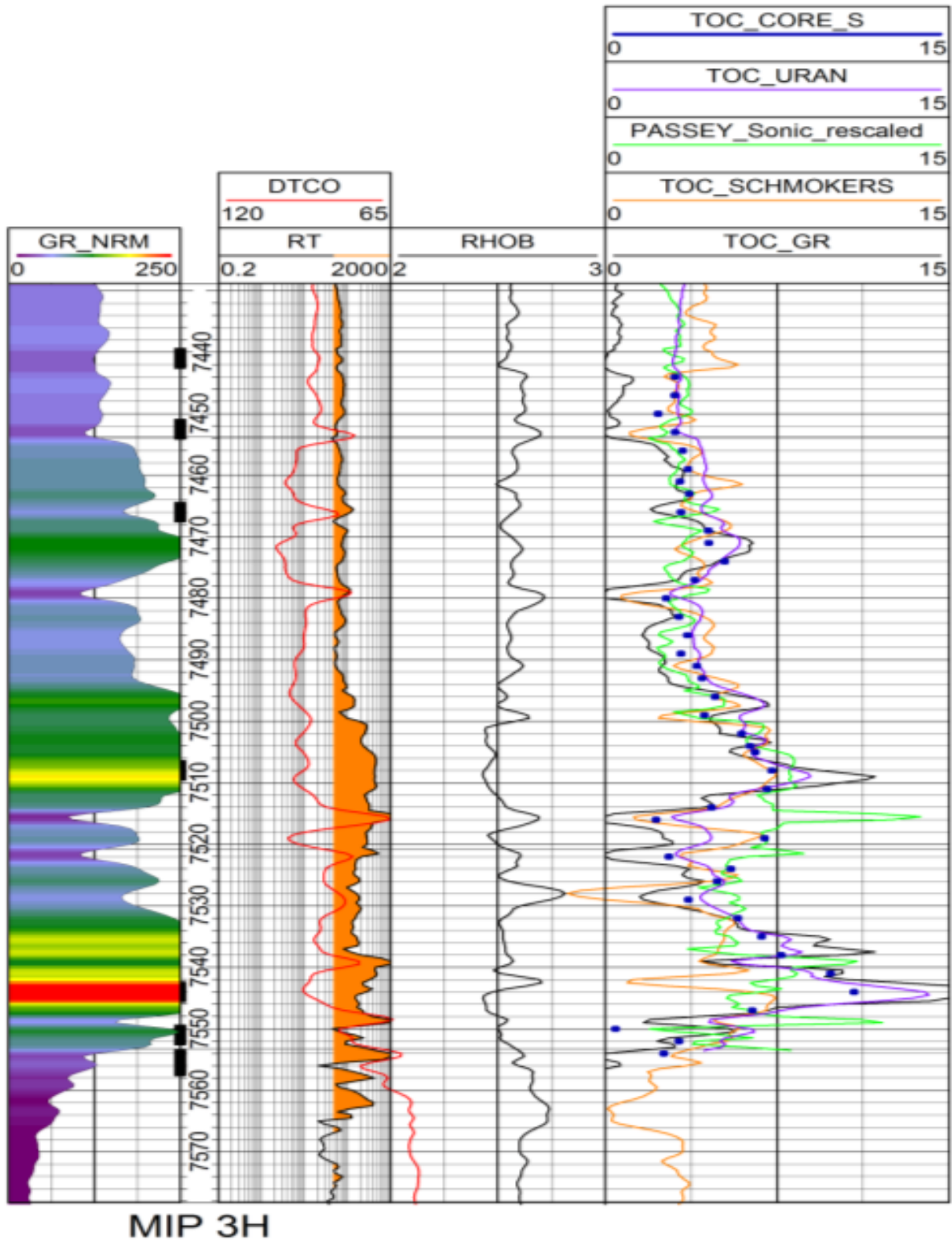


Figure 2-29: the log plot above shows the relationship between the Core TOC (blue dots) and log derived TOC's. Track 1- Gamma Ray (0-250 API displayed, colored from 0-600 API); Track 2- DTCO (Compressional Sonic) in red ($\mu\text{s}/\text{ft}$) and deep resistivity in black with orange in fill >200 ohm-m. Leftward separation between DTCO and RT represents the amount of organic matter present as determined by Passey's Method. Track 3- bulk density (grams/cc), Track 4- TOC determined by SRA from core shifted to log depth (blue dots) TOC_URAN (Uranium derived TOC) in purple, Passey's_Sonic_TOC is TOC derived using Passey's method in green, TOC_Schmoker's method is TOC derived from the modified Schmoker's equation in orange, and GR_TOC is TOC derived from gamma ray in black.

Mineralogy:

Mineralogy was determined in this well using a combination of core and log derived techniques. Core derived techniques included semi-quantitative x-ray diffraction (XRD) and integration of XRF-XRD method to quantify the data (Hupp and Donovan, 2018). Additionally, a discrete multi-mineral model was developed to compare facies change between the MIP-3H and MIP-4H.

XRD:

Core derived mineralogy for this study was provided by Brittany Hupp. Numerous samples (55) were taken between 7455' and 7556.2 at intervals of 1.7 feet on average. Samples were from whole-core using a horizontal side-wall mini corer providing 25-mm-diameter side-wall plugs at 1.5 to 6 cm lengths. Samples were segmented to ~1 cm and pulverized for 4 to 6 minutes using a Spex[®] Model 5100 steel shatterbox, allowing for a 65% minimum of the grains to be smaller than 100 μm . The pulverized samples were then hydraulically press into Chemplex[™] pellets for XRD and WDXRF (Hupp and Donovan, 2018).

XRD was run on the Chemplex pellets using a PANalytical X'Pert Pro[™] X-ray diffractometer with a CuK_α source at 2θ angles from 5° to 75° at a step time of 12 degrees per second. X-rays were focused using 20mm silt on an Xcellerator[™] detector. Mineral phases were qualitatively identified using PDF2 reference library (ICDD, 2004) and the PANalytical X'pert HighScore Plus[®]. Percentage breakouts were semi-quantitatively determined using reference intensity ratio (RIR) matrix flushing method (Chung, 1974a, 19754b) from the mineral phases chosen (albite, barite, calcite, dolomite, muscovite+illite, pyrite, quartz). RIR phases were consistent for all samples and no amorphous phases were identified aside from organic matter, allowing concentrations to be based on the total inorganic fraction of the sample (Hupp and Donovan, 2018).

Following the RIR calculations, the XRD data taken for semi- quantitative to quantitative by using the stoichiometric relationships for each phase and the elemental oxides from the WDXRF (Hupp and Donovan, 2018). The XRF-XRD integrated mineralogy was used for this study (Appendix B).

The results of the XRF-XRD mineralogy limited the overall clay volume and more evenly distributed the smaller mineral fractions (chlorite, dolomite, albite, barite, pyrite by utilizing a cluster analysis to determine the fractionation of silicate and aluminum phases (Hupp and Donovan, 2018) (figure 2-30).

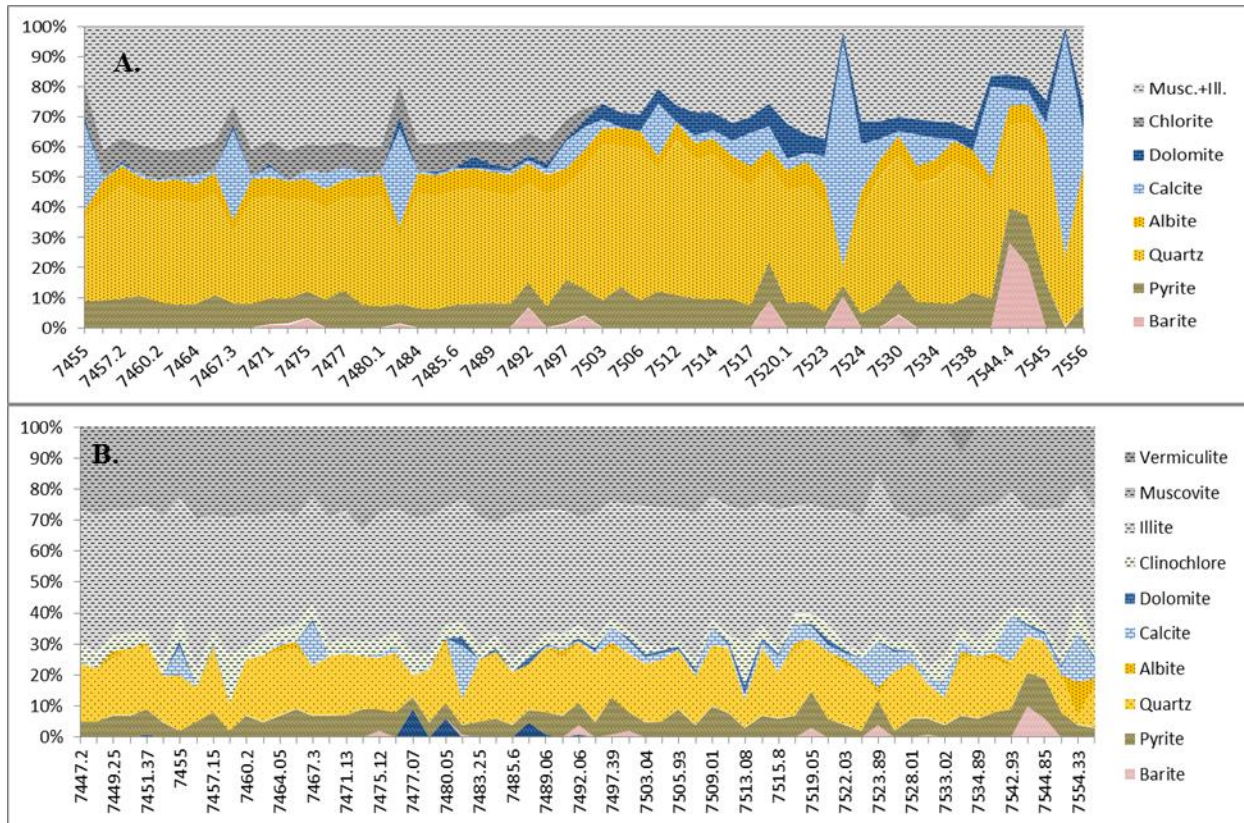


Figure 2-30: The figure above displays the mineralogy for the MIP-3H well. A. Represents the mineralogy from the RIR method. B. Represents the XRF-XRD mineralogy model, both from Hupp and Donovan, 2018.

Petrophysical Mineralogy:

Petrophysical mineralogy for this study is generated through elemental capture spectroscopy (ECS) logs in MIP-4H and MIP-3H. Additionally, we derived 3-mineral deterministic lithology solution and calibrated the model using the core-derived XRD data.

ECS:

Elemental capture spectroscopy utilizes an americium beryllium (AmBe) neutron source with a bismuth germinate (BGO) detector to measure the relative elemental proportions based on a spectrum of gamma-ray values. ECS tools capture elemental distributions for the formation, and deterministically modeled to derive a lithology solution (Hertzog et al., 1989). MIP-4H was equipped with Schlumberger's SpectroLith log. The SpectroLith log provides, elemental concentrations for Si, Al, Ca, Fe, S, Ti, and Gd, which are used to derive total carbonate, total clay, anhydrite + gypsum (S and Ca), quartz + feldspar + mica (QFM), pyrite, siderite (high deviations in Fe), Coal, and salt. The SpectroLith log has the sensitivity to resolve C, oxides, Na, Mg, and Mn, which allows differentiation between clay types and carbonate type.

The MIP-3H well utilizes Schlumberger's Lithoscanner ECS logging suite. The Lithoscanner log suite provides Al, Ba, C, Ca, Cl, Cu, Fe, Gd, H, K, Mg, Mn, Na, Ni, O, S, Si, and Ti (Aboud et al., 2014). Due to the tool's ability to resolve the lighter elements (C, Cl, Mg, Mn, O, and H) MIP-3H provided with mineralogy solutions for anhydrite, illite, chlorite, calcite, dolomite, pyrite, siderite, quartz, barite and kerogen. To keep consistent between wells, we consolidate these minerals into clays (illite, chlorite) and carbonate (calcite, dolomite).

The Lithoscanner mineralogy has moderate correlations with carbonate and clay XRD values ($r^2 = .56$ and $.575$, respectively) and poor correlation with QFM. The ECS model has a more

variable distribution of the mineral components compared to the XRF-XRD data. ECS quartz, in the MIP-3H well, is generally under predicted (20 to 60% ECS vs. 40 to 65% XRF-XRD) (Figure 2-31a, 2-31b). ECS clay generally decreases with depth reflecting core trend and trends from the XRD models. This can also be seen in the MIP-4H ECS mineralogy; however, it is less pronounced (Figure 2-31c). Carbonate content follows the trend of the XRD data, we see an overall increase with depth, however the peaks of calcite and magnitude of the carbonate content do not correlate well. The distribution of carbonate in the MIP-4H well not evenly distributed compared to the MIP-3H and in some instances calcite approaches 0%. In the areas, where the carbonate cuts out there is an increase in siderite content. The SpectroLith ECS log bins carbonate minerals into siderite where the iron-content is excessively high. There was no siderite present, suggesting this is likely carbonate not siderite. Barite and pyrite distributions are similar between the ECS and XRD suites, peaks align and are generally between 0 – 15%. Barite content over the zone from 7544' to 7545' is about half as much in the MIP-3H ECS logs as it is in the XRD-XRD model. Pyrite content in the MIP-4H well is generally lower than the MIP-3H well; however the distribution increases across the high gamma-ray peaks and transition intervals separating anoxic/euxinic zones from dysoxic zones (discussed in Chapter 3).

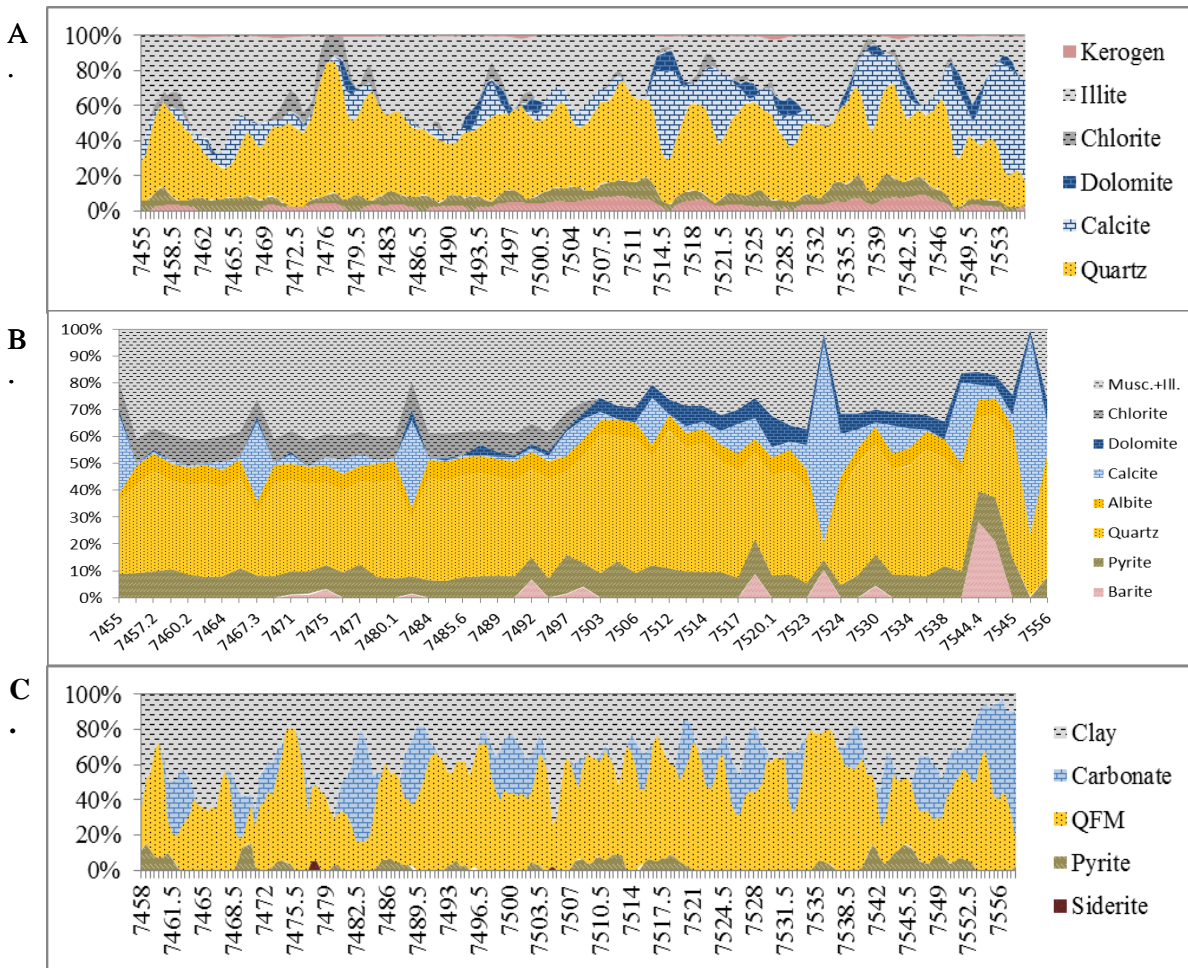


Figure 2-31: This figure displays the mineralogy from ECS logs in MIP-3H (A) and MIP-4H (C) compared to the XRF-XRD derived mineralogy, from Hupp and Donovan (2018). Key is on right of figure: Clay mineral (gray), QFM (yellow), carbonate (blue), high density minerals (pyrite in gold; barite in pink, siderite in dark red).

Modeled Mineralogy:

Petrophysical analysis and log preparation:

Prior to the prediction of mineralogy, a full petrophysical analysis was applied to the MIP-3H and MIP-4H wells. Logs were first normalized between the MIP-3H and MIP-4H wells, starting with gamma-ray. This was accomplished using a stretch-and-pull method between the ‘gray-shale’ average in the Mahantango and the average API across the Onondaga limestone:

$$(3) \text{GR_NRM} = \text{GRMIN} + (\text{GRMAX} - \text{GRMIN}) * (\text{GR} - \text{GRLOW}) / (\text{GRHIGH} - \text{GRLOW})$$

Where, GRMIN and GRMAX are the values to normalized to, in this case MIP-3H, and GRLOW and GRHIGH are the values corresponding to Min and Max in the well to be modified, MIP-4H. In the MIP-3H well GRMIN and GRMAX were determined to be 30 API and 140 API, respectively; and GRLOW and GRHIGH were determined to be 144 and 30 API in MIP-4H.

With gamma ray corrected, we can quickly compare distributions between wells and correct the logs for separation between one another by picking the max and min values for each well to normalize the well. Figure 2-32, shows an example of how this was undertaken for the neutron porosity log.

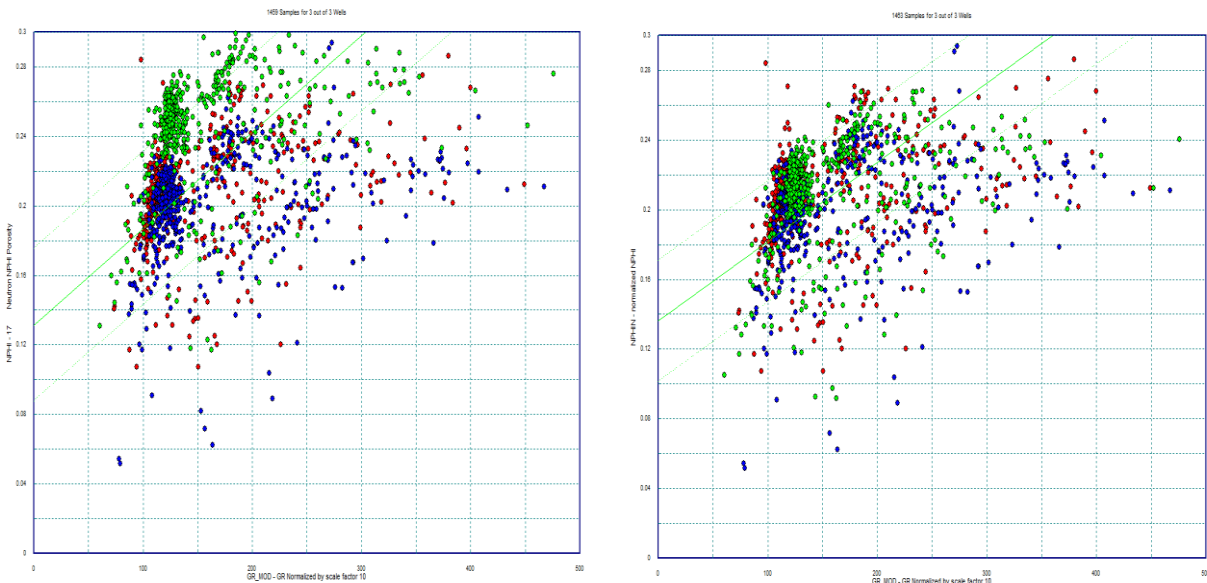


Figure 2-32: This figure shows the distribution of NPhi vs normalized Gamma Ray for MIP-3H (blue), MIP-4H (green) and MIP-SW (red). In the crossplot on the left we can see that NPhi in MIP-4H is higher overall with the same distribution with like GR values. The right crossplot show the results after normalization is complete.

Porosity corrections:

Following the normalization of the log suites, we corrected the neutron and density porosities for clay and kerogen volumes.

$$(4) DPHIc = PHID - (Vsh * DphiSH) - (Vker * DphiK)$$

$$(5) \text{NPHIc} = \text{PHIN} - (\text{Vsh} * \text{NphiSH}) - (\text{Vkero} * \text{NphiK})$$

Kerogen volume was calculated from uranium using a regional formula developed by Wang, 2012:

$$(6) \text{VKEROU} = -.00381 + 0.00350 * \text{URAN}$$

We used neutron porosity to calculate for volume clay and corrected using a series of crossplots for kerogen (volume clay neutron vs. kerogen from uranium) and fluids (volume clay neutron uranium corrected vs XRD clay (muscovite+illite and chlorite).

$$(7) \text{VCLN} = \left(\frac{\text{NPHI}}{\text{Nclay}} * \frac{\text{Nphi} - \text{Nclean}}{\text{Nclay} - \text{Nclean}} \right)^{.5}$$

$$(8) \text{VCLN} = \text{VCLNclay} + \text{VCLNkerogen} + \text{VCLNfluid}$$

$$(9) \text{VCLNU} = 0.277 - 0.784 * \text{VCLN} - (\text{VKEROU} - 1.017)$$

$$(10) \text{VCLNUF} = 1.10718 * \text{VCLNU} - 0.2839$$

Shear Moduli (or Mu) and Lamé's first parameter (or lambda) are two elastic moduli, which represent rigidity and incompressibility, respectively. These equations derived using p- and s-wave velocities and bulk density. Lamé's parameters use these equations:

$$(11) \text{Lambda } (\lambda): \quad \lambda = \rho(V_p^2 - 2V_s^2)$$

$$(12) \text{Mu } (\mu): \quad \mu = \rho V_s^2$$

Typically, these moduli derived from seismic data from p- and s-wave impedance. Therefore, throughout these plots are often referred to as Lambda-rho and Mu-rho crossplots. These elastic moduli when cross-plotted provide a multipurpose solution which can help us to determine brittle intervals, organic-rich intervals, correlate with Poisson's ratio and Young's Moduli and can be used to determine lithology (Alzate and Devegowda, 2013; Weicht, 2015). Lambda is more sensitive to pore fluids than the overall matrix and Mu is related to the matrix connectivity

alone (Alzate, 2012). Lamé's parameters are also directly related to Poisson's ratio and Young's moduli. The relationship between Poisson's ratio has a linear trend from the y-axis to the x-axis due to the influence by the where perfectly compressible ($\nu = 0$) objects have a lambda of 0, and incompressible objects have lambda near infinity (Pollard and Fletcher, 2010). The Young's modulus relationship increases with increasing Mu values (Alzate, 2012; Weicht, 2015). These relationships classify intervals into different zone of TOC richness, brittleness, and mineralogy. Figure 2-33, shows the relationship between Lamé's parameters and mineralogy with log data from the Geneseo Shale to the Huntersville Chert (Figure 2-33).

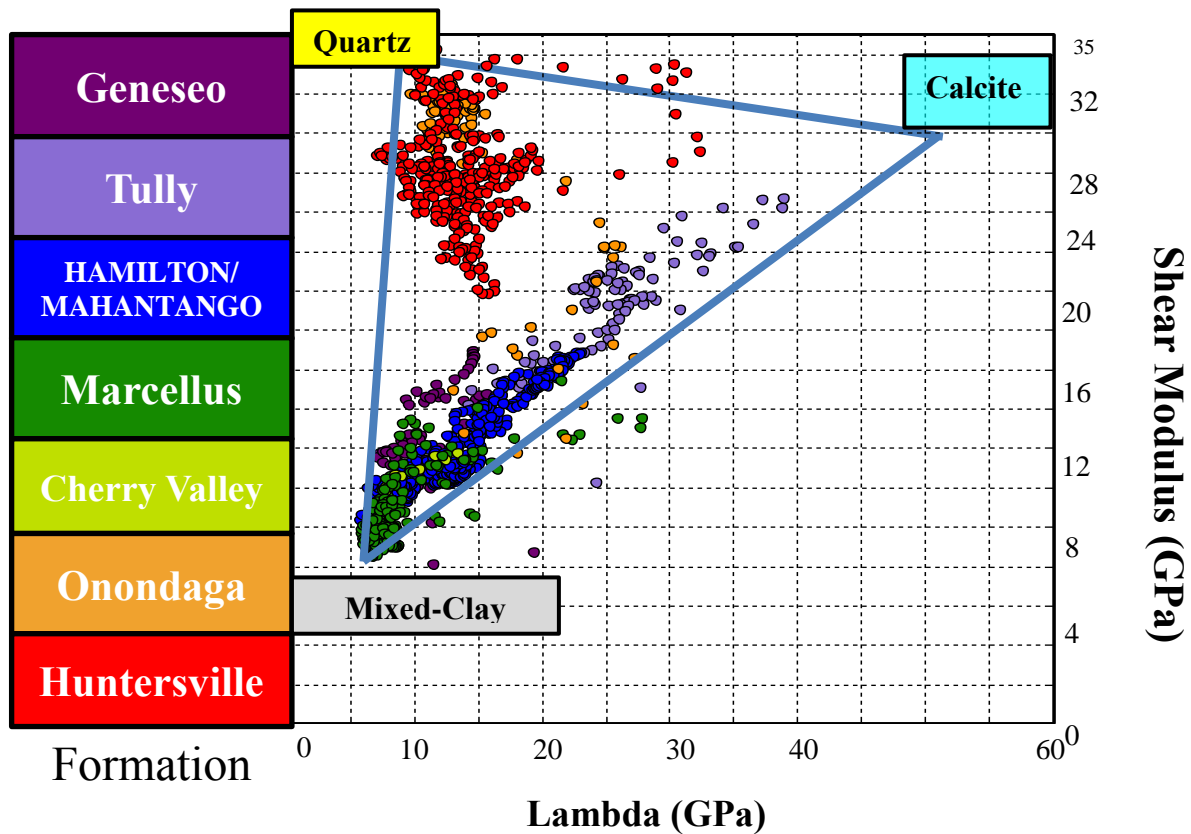


Figure 2-33: Lambda-Mu crossplot with mineralogy ternary plot overlay (from Perez-Altamar & Marfurt, 2014). Formations for both MIP3H and MIP4H listed with their associated color on the left. The Marcellus in green in the formation of interest and is represented as a siliceous/argillaceous shale reservoir.

Petrophysical Mineralogy Model:

Mineralogy was modeled using a reverse deterministic 3-mineral model (clay, quartz, and carbonate) for the MIP-3H and MIP-4H wells. This matrix algebra solution is determining the original mineralogy given log responses and a matrix of log properties (Doveton, 1994). Fitting the model to the core mineralogy is a time intensive process due to the fact the solution is relatively simple but over a dynamic, heterogeneous reservoir. The model calculated uses bulk density from corrected density porosity, corrected neutron porosity, lambda, and a unity function (Table 2-2). The photoelectric log, corrected to UMAA, was initially used. However due to degree of high density minerals present the solution could not produce an accurate solution without utilizing constants outside of geologic reality. Lambda, due to the high spatial separation between data points provides a strong correlation between the XRD and model.

C: MIP-3H	Quartz	CALCITE	CLAY	POROSITY
PHIN	-5	0	25	100
DENS	2.65	2.71	2.85	1
Lambda	5	28	8	0.01
UNITY	1	1	1	1

C: MIP-4H	Quartz	CALCITE	CLAY	POROSITY
PHIN	-5	0	25	100
DENS	2.65	2.71	2.85	1
Lambda	4	25	7.5	0.01
UNITY	1	1	1	1

Table 2-2: Log properties matrix for mineralogy solution, Top is from the MIP-3H solution and the bottom matrix is for the MIP-4H solution. Lambda values are shifted down 1 to 3 GPa.

Comparing the Mineralogy model with the XRD data we find a relatively close fit with moderate correlations for all minerals ($r = .48$). Ternary comparison between the ECS, XRF-XRD, and modeled mineralogy shows a relatively close match between the modeled and core-derived

mineralogy (Figure 2-34). Similar to the XRF-XRD data, the modeled mineralogy has slightly lower clay content than the ECS log.

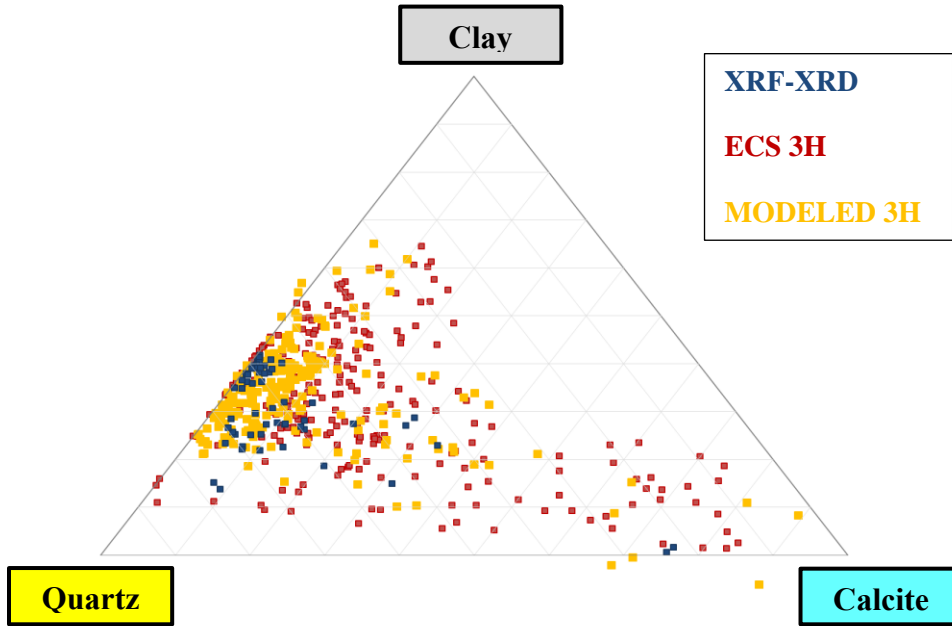


Figure 2-34: The comparison between the three mineralogy suites in the MIP-3H well: the XRF-XRD points (blue), ECS log (red), Modeled mineralogy (yellow).

Meso-facies calculation:

Mesofacies were calculated using distinct cut-offs modified from Bhattacharya and Carr, 2015 (Figure 2-35). To quickly calculate the facies cutoffs a PETRA Advanced transforms file was constructed (Appendix C). Three sets of shale lithofacies were derived for the MIP-3H well (XRD, PNS, and Modeled) and two sets for the MIP-4H well (PNS and Modeled). Ternary plot displays show each facies set mineralogical distribution (Figure 2-36). Organic-rich facies (6.5 wt% cutoff) generally remains in facies below the 30% clay content and entirely so in facies with less than 40% clay content. Both the modeled and XRD lithofacies show generally more narrow distributions compared to the PNS logs. Organic-facies in the MIP-4H PNS model occur in mostly mixed facies with some siliceous organic facies present. Organic-facies in the

modeled-mineralogy lithofacies solution occurs mostly in the siliceous-rich organic facies with some facies occurring within the mixed and clay-rich facies.

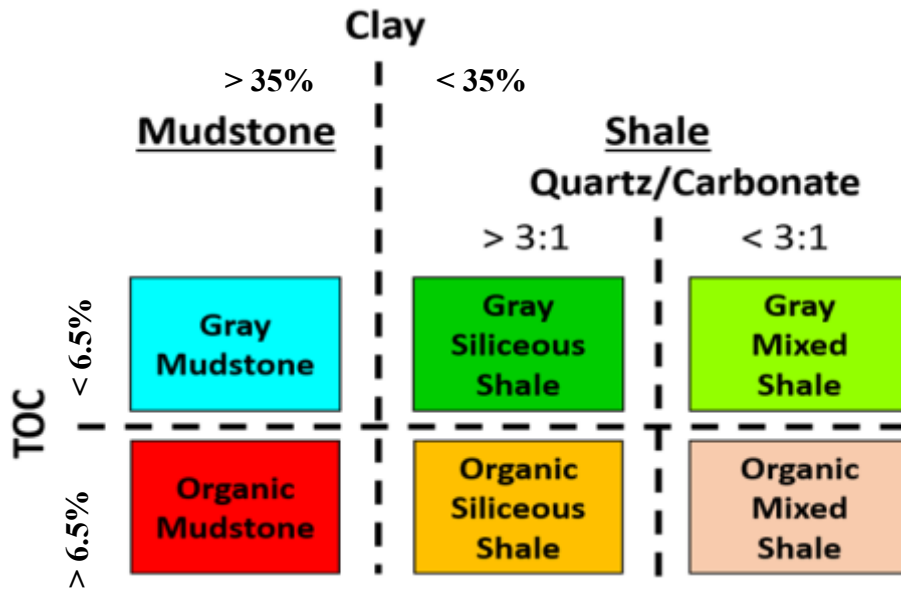


Figure 2-35: Key for macro-facies: warm colors are organic-rich facies (>6.5%) and cool colors are organic-lean (<6.5%) or 'gray' modified after Bhattacharya and Carr, 2016

Figure 2-37, shows a comparison between MIP-3h and MIP-4H wells, in both well tracts 2 and 3 are from the ECS logs and tracts 4 and 5 are from the modeled mineralogy. The discrete point data is from the XRF-XRD data. All models show that there is an increase in mudstone facies in the upper and upper portion of the middle Marcellus compared to the lower Marcellus. The high gamma peaks correlate with siliceous facies and organic facies are primarily siliceous. The only instance of the organic mudstone occurs in two one-foot facies from 7538 to 7542 in MIP-4H well. Low gamma values relate to mixed shale facies and approaches limestone (at 7515, MIP-3H). The MIP-4H well facies are similar to the MIP-3H with a slight increase in the total clay and carbonate and slightly low TOC values, compared to the MIP-3H well. Due to the lower TOC values in the MIP-4H well the thickness of the modelled organic-rich facies is smaller.

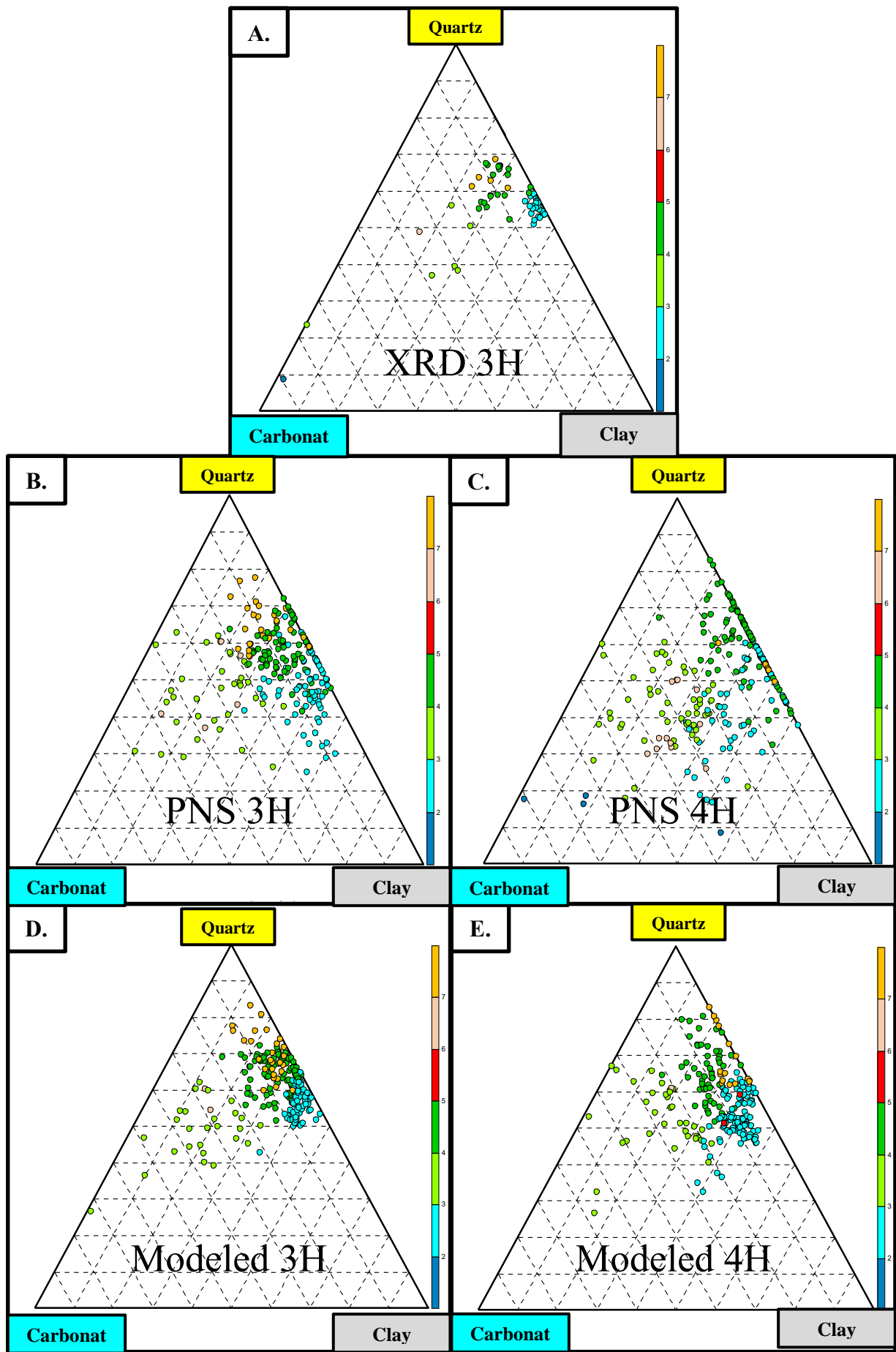


Figure 2-36: Quartz-Clay-Carbonate Ternary diagrams with z-axis showing Shale lithofacies for each mineralogy model: A. XRF-XRD, B. PNS MIP-3H, C. PNS MIP-4H, D. Modeled MIP-3H, E. Modeled MIP-4H

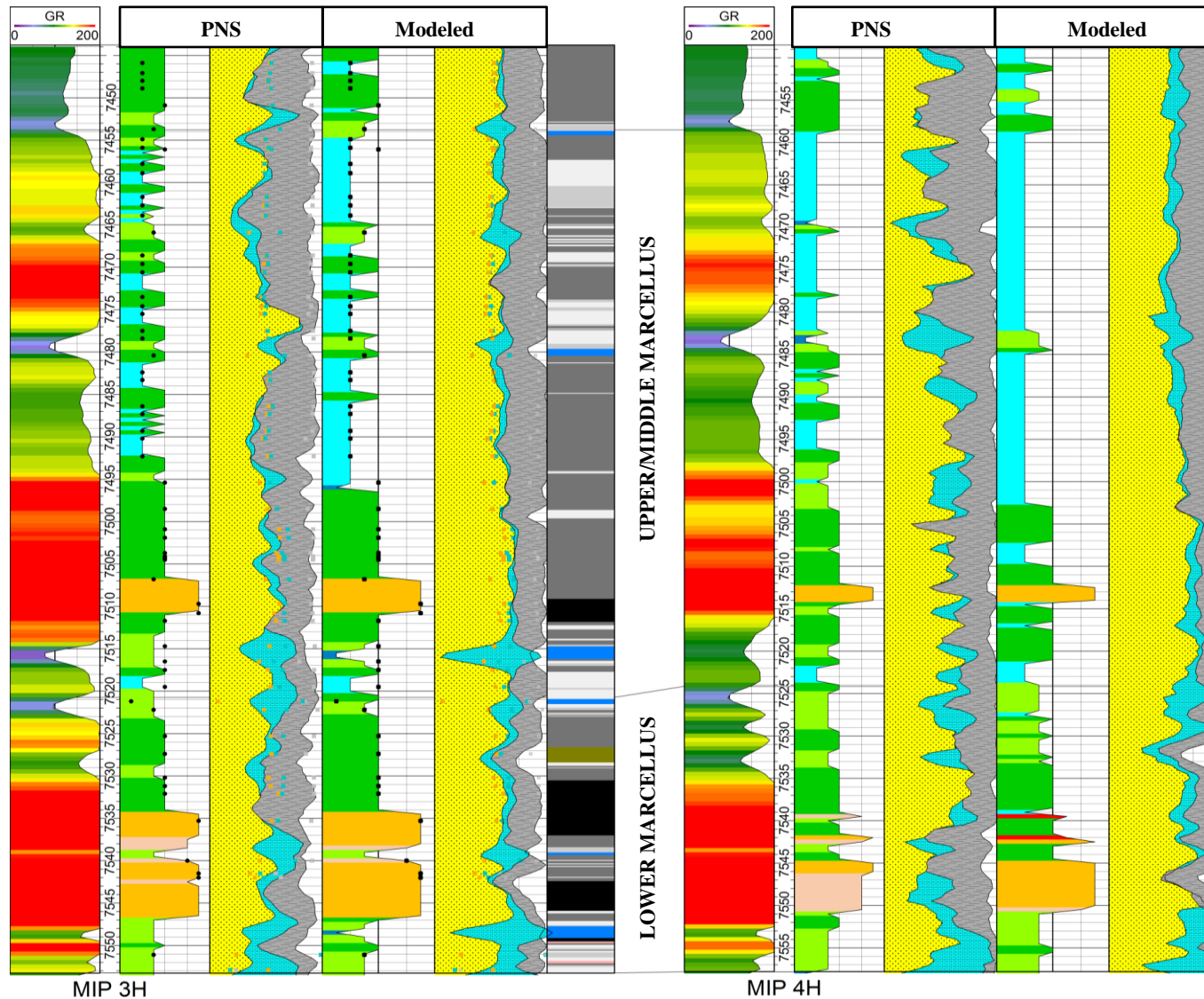


Figure 2-37: This cross-section between MIP-3H and MIP-4H compares the shale lithofacies models generated for each well. Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: lithofacies from PNS and TOC_URAN, discrete points shale lithofacies from XRD and TOC-URANIUM (MIP-3H only); Tract 3:PNS mineralogy, quartz (yellow), calcite (blue), clays (gray), discrete points XRD mineralogy, quartz (yellow), calcite (blue), clays (gray); Tract 4: lithofacies from Modeled mineralogy and TOC_URAN, discrete points shale lithofacies from XRD and TOC-URANIUM (MIP-3H only) , Tract 5: modeled mineralogy, quartz (yellow), calcite (blue), Clays (gray) , discrete points XRD mineralogy, quartz (yellow), calcite (blue), clays (gray);, Tract 6:Macro-facies (core scale facies) key in Figure 2-2.

CHAPTER 3, CHEMOSTRATIGRAPHY

3.1 X-ray Fluorescence (XRF):

XRF measures elemental proportions in a sample by measuring the energy return after an atom is disrupted by a source x-ray proton. Four different XRF ‘suites’ were used in analysis of the core from the MIP-3H well to determine the elemental concentration of a larger number of elements and to confirm the reliability of each suite when compared to other methods of analysis.

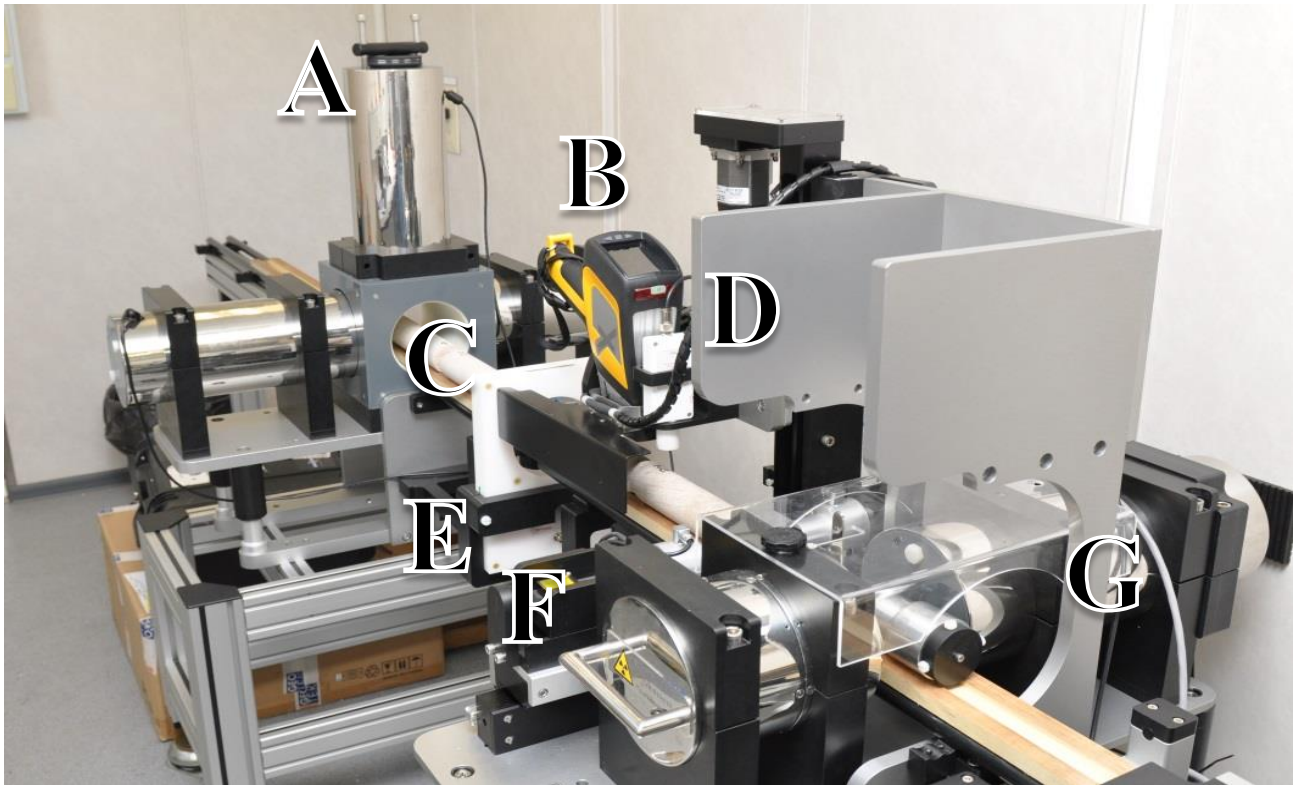


Figure 3-1: the Multi Sensor Core Logger (MSCL) allows us to continuously run petrophysical measurements on whole core: (A) natural gamma detector; (B) X-Ray Fluorescence Spectrometry; (C) Magnetic Susceptibility Loop Sensor; (D) Magnetic Susceptibility Point Sensor; (E) Non-Contacting Electrical Resistivity Sensor; (F) P-Wave Velocity Transducers, (G) Gamma Density Source.

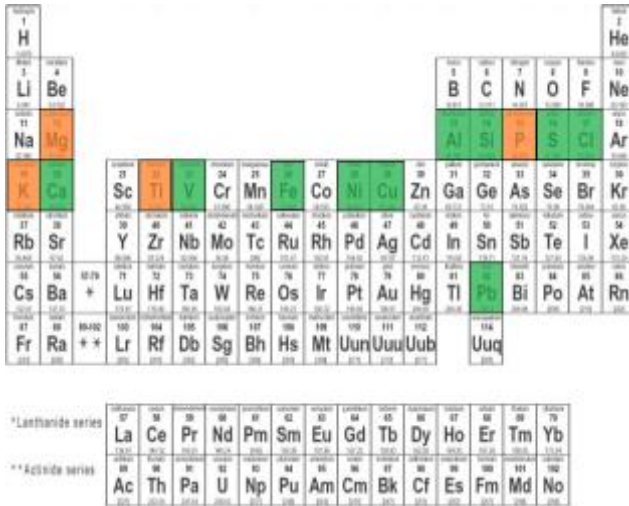
The Multi Sensor Core Logger (MSCL) measures petrophysical parameters on whole core (Figure 3-1). For this study, the MSCL analyzed X-Ray fluorescence (XRF), magnetic susceptibility, p-wave velocity, and gamma ray density. The MSCL provides continuous

measurements at an end user provided interval to allow for unbiased sampling. We ran the 1/3rd core piece from the MIP-3H well through the MSCL using a sample increment of 2cm. The average length of each core piece was 3 feet (0.9144m) which required a total of 41 core boats to sample the entire core (7445' to 7557'). Three suites of XRF samples were obtained using the Multi Sensor Core Logger at NETL include a Mining and Mining Suite Plus at a longer exposure time for a limited portion of the core. These MSCL suites were subsequently compared to a limited number of samples run by an outside lab using traditional XRF techniques (Figure 3.2). Appendix D, includes data for all XRF Suites.

The Mining Suite measures the light elements (Mg to Pb). We used an exposure time of 20 seconds at 2 cm resolution through the whole core length (7444 to 7555'). The Soil Suite best measures some major elements (K, Ca, S, P, Cl, Ti, Cr, Mn, Fe, Ni, Cu) and trace elements (Zn, Hg, As, Pb, Bi, Se, Rb, U, Sr, Zr, Mo, Ag, Cd, Sn, Sb, and Ba). Again, an exposure time of 20 seconds at 2 cm resolution for the entire length of the core was used (7444' to 7555'). The Soil Suite utilizes a dual beam at two energy levels to better resolve the trace elements and major elements separately giving a total exposure time of 40 seconds. The Mining-Plus Suite works in a similar fashion to the Soil Suite, the tool measures the heavy and transition metals, then changes to a high energy to measure the major elements. It was determined following the analysis of the Soil Suite samples that the short exposure time significantly limited the accuracy of the trace element determination. Therefore, the exposure time of the Mining-Plus Suite was increased to 60 secs per beam, while keeping the 2 cm resolution. Due to time constraints, we limited our analysis to 38 feet through the lower Marcellus in the MIP3H core (7517 to 7555'). The lower Marcellus was selected due to the heterogeneity of facies that are represented and the rapid changes in TOC through this interval.

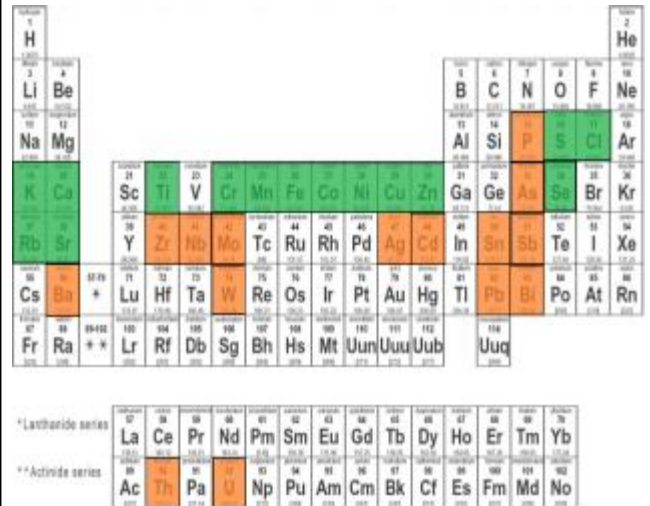
MSCL Mining Suite

- 20 sec exposure time
- 2cm resolution (7444 to 7555')



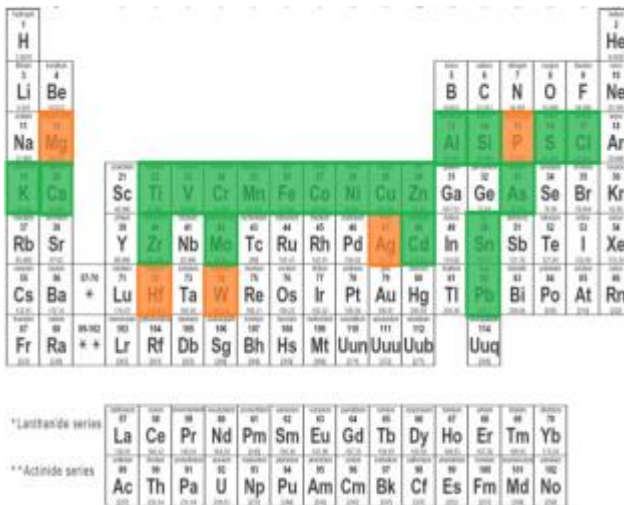
MSCL Soil Suite

- 40 sec exposure time
- (Dual Beam 20 per beam)
- 2cm resolution (7444 to 7555')



MSCL Mining-Plus Suite

- 120 sec exposure time
- (Dual Beam 60 per beam)
- 2cm resolution (7515 to 7555')



Hamilton Suite

- Loss on Ignition at 900°C
- Higher precision but lower resolution.
- 1-3 ft resolution (7444 to 7555')



Figure 3-2: Four suites of XRF data obtained from the MIP 3H well using the Multi Sensor Core Logger (MSCL) and traditional XRF analysis showing elements that are identified with each suite are highlighted. Green represents elements quantified with lower errors and orange represents elements with higher error. Parameters of each suite are outlined.

Finally, a limited set of powdered samples was run using traditional methods by Hamilton University using a Thermo ARL Preform'X spectrometer, about 2 hours of exposure time (Hupp 2017). The Hamilton Suite includes major elements, transition metals, and trace elements. The long exposure time allows for high accuracy and precision but given expenses and available samples limited vertical resolution and possible introduction of sampling biases (Hupp 2017). Figure 3-3, shows the Hamilton measured data verse the laboratory standards all displayed results have an r^2 of 0.99. Therefore, the Hamilton XRF provides a method to evaluate the reliability of the XRF data obtained from the Multi Sensor Core Logger (MSCL).

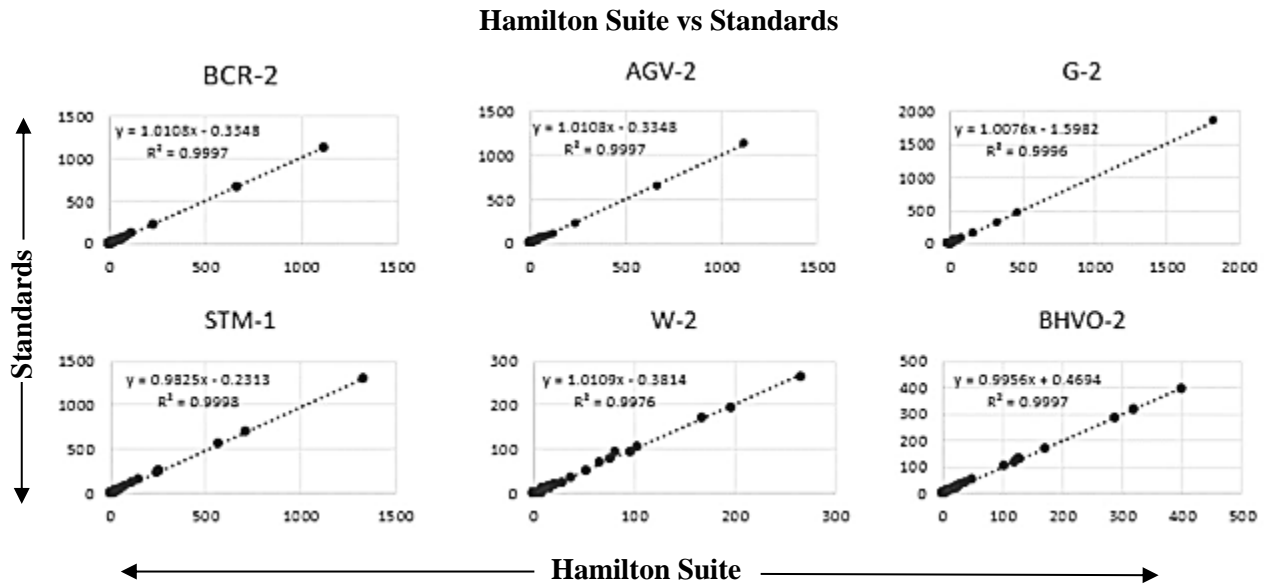


Figure 3-3: The six crossplots above represent the standards ran in the Hamilton Suite. Hamilton values plotted along the x-axis and the standards values are measured along the y-axis. All elements are displayed in the x-plots above.

To evaluate the reliability of the MSCL data, we converted the oxides in the Hamilton Suite to their elemental state and compared all like elements between each MSCL suite (Figure 3-4). The mining-plus suite compared to the Hamilton shows a strong correlation with the major elements (Si, Al, Ca, Fe) and some of the trace elements (Ni, Mo, Zn, Cu). The correlations between

Hamilton and Mining-plus were poor for phosphorous, magnesium, potassium, sulfur and titanium. The poor correlation for sulfur is due to loss on fusion of the powdered samples in the Hamilton suites (Hupp and Donovan, 2018). The other low correlations are likely due to limits of detection for the Mining-plus suite. The Soil and Mining suites both have generally lower correlation coefficients overall. The Soil Suite has moderate correlations between some major and transition elements (Fe, K, Ni, and Ti). The Mining Suite has low correlations between all elements. These lower correlations in the mining and Soil suites are likely a result of lower runtimes to resolve the element proportions.

Figures 3-5 to 3-8 show correlations between elements within each XRF suite. This allows a better understanding of the general relationships and functions of each element and what proxies can be used to understand the paleo-environment. We find strong positive correlations between Si, Cr, K, Ti, Al, Hf, Ti and Zr and a strong negative correlation between these element and Ca. These elements all have strong affinity for silicates and are strongly related to sedimentation trends (Sagemen 2003). We also find strong to moderate positive correlations between Mo, Fe, Cu, Ni, Pb, S, Zn, As, and V; and a strong to moderate negative correlation to Mn. These elements generally have a strong affinity for sulfides and/or native iron, as such, these elements follow redox trends. These correlation plots also show a problem with the hhXRF tool, specifically in the Mining and Mining-plus suites where elements with high errors (e.g. Ti, V) can show a false correlation. Generally, a strong correlation between vanadium and titanium would occur among mafic-rich rocks (Shervais, 1982). This doesn't match the depositional environment and does not match the correlation coefficient in the Hamilton suite.

Mining-Plus vs Hamilton	Correlation	
Al	0.93	
As	0.78	
Ca	0.99	
Cl	0.29	
Cr	0.72	
Cu	0.94	
Fe	0.64	
Hf	0.30	
K	0.38	
Mg	nd	
Mn	0.26	
Mo	0.98	
Ni	0.95	
Pb	0.41	
P	0.15	
Si	0.80	
S	-0.01	
Ti	-0.37	
V	0.11	
Zn	0.96	
Zr	-0.03	
Soil vs. Hamilton	Correlation	
As	0.38	
Ba	-0.06	
Ca	0.25	
Cl	0.09	
Cr	-0.03	
Cu	0.10	
Fe	0.66	
K	0.67	
Mn	0.59	
Mo	-0.12	
Nb	-0.31	
Ni	0.60	
Pb	0.21	
P	-0.17	
Rb	-0.35	
S	-0.01	
Sr	0.05	
Th	-0.28	
Ti	0.50	
U	0.09	
Y	-0.22	
Zn	-0.06	
Zr	0.09	
Mining vs. Hamilton	Correlation	
Al	0.26	
Ca	0.25	
Cl	-0.16	
Cu	0.27	
Fe	0.32	
K	0.38	
Mg	0.14	
Ni	0.28	
Pb	0.09	
P	nd	
Si	0.16	
S	-0.02	
Ti	-0.03	
V	0.45	

Figure3-4: Correlation between MSCL and Hamilton suites. Correlations displayed with bars between -1 and 1, where, negative values are red and positive values are blue.

MSCL Mining

	Al-Mining	Ca-Mining	Cl-Mining	Cu-Mining	Fe-Mining	K-Mining	Mg-Mining	Ni-Mining	Pb-Mining	P-Mining	Si-Mining	S-Mining	Ti-Mining	V-Mining
Al-Mining	1.00													
Ca-Mining	-0.36	1.00												
Cl-Mining	-0.71	-0.27	1.00											
Cu-Mining	0.79	-0.28	-0.71	1.00										
Fe-Mining	0.71	-0.37	-0.49	0.68	1.00									
K-Mining	0.77	-0.21	-0.45	0.45	0.46	1.00								
Mg-Mining	0.20	-0.10	-0.03	0.09	0.14	0.30	1.00							
Ni-Mining	0.79	-0.28	-0.71	1.00	0.68	0.44	0.09	1.00						
Pb-Mining	0.80	-0.27	-0.72	1.00	0.66	0.45	0.08	1.00	1.00					
P-Mining	--	--	--	--	--	--	--	--	--	1.00				
Si-Mining	0.90	-0.28	-0.82	0.84	0.64	0.50	0.09	0.84	0.85	--	1.00			
S-Mining	0.55	-0.14	-0.62	0.70	0.76	0.19	-0.03	0.71	0.71	--	0.71	1.00		
Ti-Mining	0.20	-0.10	-0.20	0.51	0.24	0.08	0.06	0.50	0.52	--	0.30	0.56	1.00	
V-Mining	0.42	-0.15	-0.45	0.81	0.41	0.16	0.05	0.81	0.81	--	0.56	0.69	0.89	1.00

Figure 3-5: This correlation matrix shows the relationship between elements, The bold results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero.

MSCL Soil

	As-SOIL	Ba-SOIL	Ca-SOIL	Cl-SOIL	Cr-SOIL	Cu-SOIL	Fe-SOIL	K-SOIL	Mn-SOIL	Mo-SOIL	Nb-SOIL	Ni-SOIL	Pb-SOIL	P-SOIL	Rb-SOIL	S-SOIL	Sr-SOIL	Th-SOIL	Ti-SOIL	U-SOIL	Y-SOIL	Zn-SOIL	Zr-SOIL	
As-SOIL	1.00																							
Ba-SOIL	0.62	1.00																						
Ca-SOIL	-0.07	-0.04	1.00																					
Cl-SOIL	0.10	0.33	-0.12	1.00																				
Cr-SOIL	-0.02	-0.10	-0.50	-0.16	1.00																			
Cu-SOIL	-0.07	0.02	-0.03	0.05	-0.06	1.00																		
Fe-SOIL	0.04	-0.02	-0.58	-0.07	0.59	0.01	1.00																	
K-SOIL	-0.32	-0.16	-0.50	-0.37	0.43	-0.01	0.65	1.00																
Mn-SOIL	-0.42	-0.12	0.27	-0.17	0.04	0.03	0.12	0.26	1.00															
Mo-SOIL	0.40	0.60	0.02	0.27	0.15	-0.12	-0.02	-0.35	-0.11	1.00														
Nb-SOIL	0.31	-0.20	-0.19	-0.09	0.07	-0.05	0.11	-0.12	-0.48	-0.29	1.00													
Ni-SOIL	0.69	0.33	-0.32	0.06	0.31	0.02	0.35	-0.02	-0.44	0.22	0.55	1.00												
Pb-SOIL	0.30	0.44	-0.45	0.24	0.02	0.09	0.19	0.22	-0.31	0.09	0.14	0.34	1.00											
P-SOIL	0.12	0.05	0.16	-0.21	0.15	-0.13	0.12	0.06	-0.03	-0.10	0.13	0.24	0.07	1.00										
Rb-SOIL	-0.04	-0.10	0.11	-0.02	0.55	-0.05	0.01	-0.32	0.01	0.46	-0.02	0.09	-0.33	0.12	1.00									
S-SOIL	0.53	0.14	-0.28	0.08	0.52	-0.06	0.61	0.01	-0.30	0.25	0.37	0.66	0.09	0.30	0.37	1.00								
Sr-SOIL	0.59	0.79	0.19	0.16	-0.16	0.04	-0.14	-0.29	0.02	0.50	-0.16	0.25	0.28	0.19	0.04	0.15	1.00							
Th-SOIL	0.51	-0.01	-0.17	0.05	0.09	0.08	0.12	-0.27	-0.49	-0.06	0.69	0.60	0.20	0.12	0.05	0.58	0.13	1.00						
Ti-SOIL	-0.28	-0.08	-0.28	-0.14	-0.10	-0.01	0.30	0.61	0.33	-0.23	-0.30	-0.23	0.13	-0.15	-0.54	-0.35	-0.18	-0.40	1.00					
U-SOIL	0.27	0.37	0.33	0.39	-0.63	0.06	-0.58	-0.45	-0.25	0.03	0.02	0.03	0.27	-0.05	-0.34	-0.23	0.31	0.04	-0.14	1.00				
Y-SOIL	-0.36	-0.44	-0.44	-0.30	0.41	-0.04	0.33	0.69	0.10	-0.53	0.00	-0.09	0.13	0.10	-0.09	-0.07	-0.46	-0.23	0.37	-0.27	1.00			
Zn-SOIL	0.39	0.75	-0.11	0.37	0.02	-0.04	0.09	-0.10	-0.16	0.40	-0.09	0.34	0.32	0.04	-0.01	0.20	0.39	0.04	-0.08	0.21	-0.32	1.00		
Zr-SOIL	0.56	0.96	-0.16	0.32	-0.03	-0.02	0.08	0.03	-0.09	0.53	-0.25	0.32	0.49	0.04	-0.19	0.12	0.71	-0.09	0.06	0.32	-0.26	0.68	1.00	

Figure 3-6: This correlation matrix shows the relationship between elements. The bold results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero.

MSCL Mining-plus

	Al-MP	As-MP	Ca-MP	Cl-MP	Cr-MP	Cu-MP	Fe-MP	Hf-MP	K-MP	Mg-MP	Mn-MP	Mo-MP	Ni-MP	Pb-MP	P-MP	Si-MP	S-MP	Ti-MP	V-MP	Zn-MP	Zr-MP	
Al-MP	1.00																					
As-MP	0.00	1.00																				
Ca-MP	-0.78	-0.52	1.00																			
Cl-MP	-0.02	0.48	-0.16	1.00																		
Cr-MP	0.63	-0.32	-0.27	0.03	1.00																	
Cu-MP	0.32	0.72	-0.65	0.15	0.15	1.00																
Fe-MP	0.09	0.83	-0.55	0.45	-0.37	0.44	1.00															
Hf-MP	0.47	0.01	-0.54	-0.40	-0.11	0.17	0.09	1.00														
K-MP	0.56	-0.23	-0.33	-0.36	0.48	0.29	-0.23	0.35	1.00													
Mg-MP	--	--	--	--	--	--	--	--	--	1.00												
Mn-MP	-0.32	0.22	0.02	-0.18	-0.63	0.14	0.11	0.43	0.19	--	1.00											
Mo-MP	0.02	0.79	-0.41	0.36	0.04	0.71	0.56	-0.29	-0.25	--	-0.13	1.00										
Ni-MP	0.08	0.88	-0.57	0.18	-0.16	0.85	0.62	0.04	-0.11	--	0.16	0.86	1.00									
Pb-MP	0.42	0.86	-0.81	0.32	-0.04	0.86	0.72	0.29	0.08	--	0.17	0.74	0.86	1.00								
P-MP	0.23	-0.35	-0.04	-0.10	0.32	-0.15	-0.26	0.06	0.44	--	-0.08	-0.32	-0.28	-0.27	1.00							
Si-MP	0.82	0.16	-0.78	-0.10	0.52	0.44	0.06	0.53	0.33	--	-0.26	0.19	0.33	0.49	0.16	1.00						
S-MP	-0.11	0.72	-0.45	0.21	-0.64	0.32	0.85	0.35	-0.33	--	0.44	0.39	0.56	0.60	-0.31	-0.02	1.00					
Ti-MP	-0.30	0.16	0.03	-0.21	-0.61	0.13	0.10	0.42	0.26	--	0.98	-0.19	0.10	0.14	-0.10	-0.33	0.41	1.00				
V-MP	-0.39	0.22	0.09	-0.17	-0.69	0.10	0.13	0.37	0.13	--	0.99	-0.12	0.14	0.14	-0.11	-0.36	0.46	0.98	1.00			
Zn-MP	-0.07	0.74	-0.19	0.69	0.04	0.50	0.54	-0.46	-0.20	--	-0.19	0.68	0.56	0.49	-0.10	-0.01	0.21	-0.23	-0.17	1.00		
Zr-MP	0.09	0.17	-0.28	-0.24	-0.33	0.30	0.09	0.64	0.52	--	0.90	-0.17	0.16	0.30	0.14	0.05	0.36	0.90	0.86	-0.25	1.00	

Figure 3-7: This correlation matrix shows the relationship between elements. The Color scale is dark blue with a strong positive correlation and dark red with a strong negative correlation both values get lighter as they approach zero.

Hamilton Suite

	Al	As >=	Ca	Cl >=	Cr	Cu	Fe	Hf	K	Mg	Mn	Mo	Ni	Pb >=	P	Si	S >=	Ti	V	Zn	Zr	
Al	1.00																					
As >=	0.15	1.00																				
Ca	-0.78	-0.58	1.00																			
Cl >=	0.16	0.25	-0.12	1.00																		
Cr	0.92	0.22	-0.70	0.17	1.00																	
Cu	0.41	0.72	-0.69	-0.03	0.57	1.00																
Fe	0.19	0.90	-0.64	0.26	0.21	0.69	1.00															
Hf	0.75	0.08	-0.48	-0.01	0.78	0.36	0.02	1.00														
K	1.00	0.16	-0.79	0.14	0.92	0.42	0.21	0.74	1.00													
Mg	0.65	0.22	-0.51	0.22	0.80	0.55	0.23	0.74	0.64	1.00												
Mn	-0.02	-0.49	0.36	-0.04	-0.05	-0.22	-0.46	0.33	-0.06	0.19	1.00											
Mo	0.19	0.63	-0.47	0.11	0.36	0.67	0.61	-0.11	0.22	0.32	-0.67	1.00										
Ni	0.20	0.74	-0.58	0.08	0.35	0.81	0.75	-0.05	0.23	0.28	-0.59	0.93	1.00									
Pb >=	0.58	0.16	-0.50	-0.16	0.66	0.48	0.29	0.26	0.60	0.44	-0.45	0.59	0.50	1.00								
P	-0.48	-0.47	0.58	-0.12	-0.39	-0.54	-0.66	-0.28	-0.49	-0.31	-0.03	-0.37	-0.52	-0.33	1.00							
Si	0.92	0.27	-0.86	0.11	0.85	0.45	0.32	0.57	0.94	0.55	-0.35	0.39	0.38	0.70	-0.45	1.00						
S >=	0.33	0.20	-0.35	-0.46	0.32	0.46	0.07	0.38	0.33	0.28	0.20	0.07	0.15	0.24	-0.29	0.33	1.00					
Ti	0.99	0.06	-0.71	0.12	0.92	0.37	0.10	0.81	0.98	0.68	0.09	0.08	0.09	0.56	-0.41	0.88	0.35	1.00				
V	0.27	0.82	-0.68	0.17	0.40	0.86	0.78	0.06	0.30	0.36	-0.53	0.88	0.96	0.41	-0.53	0.42	0.22	0.17	1.00			
Zn	0.09	0.36	-0.17	0.04	0.32	0.46	0.24	0.10	0.11	0.29	-0.37	0.68	0.65	0.31	-0.16	0.20	0.12	0.02	0.61	1.00		
Zr	0.93	0.09	-0.64	0.11	0.96	0.50	0.10	0.86	0.91	0.78	0.15	0.13	0.15	0.57	-0.36	0.80	0.39	0.96	0.22	0.14	1.00	

Figure 3-8: This correlation matrix shows the relationship between elements. The bold results are the correlations of like elements between the Mining and Hamilton Suites. The Color scale is dark blue with a strong positive correlation and dark

3.2 Paleo Proxies:

Chemostratigraphy is the study of the chemical variations within sedimentary sequences to determine stratigraphic relationships. Chemostratigraphy is particularly important in intervals that visually appear homogenous and lack abundant environment of deposition indicators such as the Marcellus Shale. Sageman et al. 2003, provides a framework to understand organic matter preservation in clay-rich intervals using three processes: dilution, or the amount of sediment input; decomposition, or the paleo-redox conditions; and production both in terms of nutrient supply and primary production. Using elemental enrichments and ratios, we can resolve changes in paleo-redox environments, sedimentation, and paleo-production (Figure 3-9).

Chemical proxies for sedimentation primarily focus on the change in detrital (fluvial and eolian) and skeletal (benthic and pelagic) delivery. Detrital delivery is primarily resolved using the ratio of Ti and Si to Al and elemental enrichments in Zr. Skeletal influx is resolved by increases in Ca. Chemical proxies for redox conditions primarily focus on elemental enrichment and they dominate electron acceptor. For example, Manganese is primarily associated with O_2 , therefore increases in Mn indicate oxic redox conditions. One also uses Fe, S, and Mo to determine anoxic to euxinic (sulfate reducing anoxic condition). Mo and Fe (from pyrite) accumulate during intervals of sulfate reduction.

Chemical proxies for paleo-production can be separated into two categories: nutrient supply and bio-productivity. Nutrient supply is determined through enrichments in Ni, Zn, and V. Bio-productivity is determined using P, Y enrichment, and the TOC.

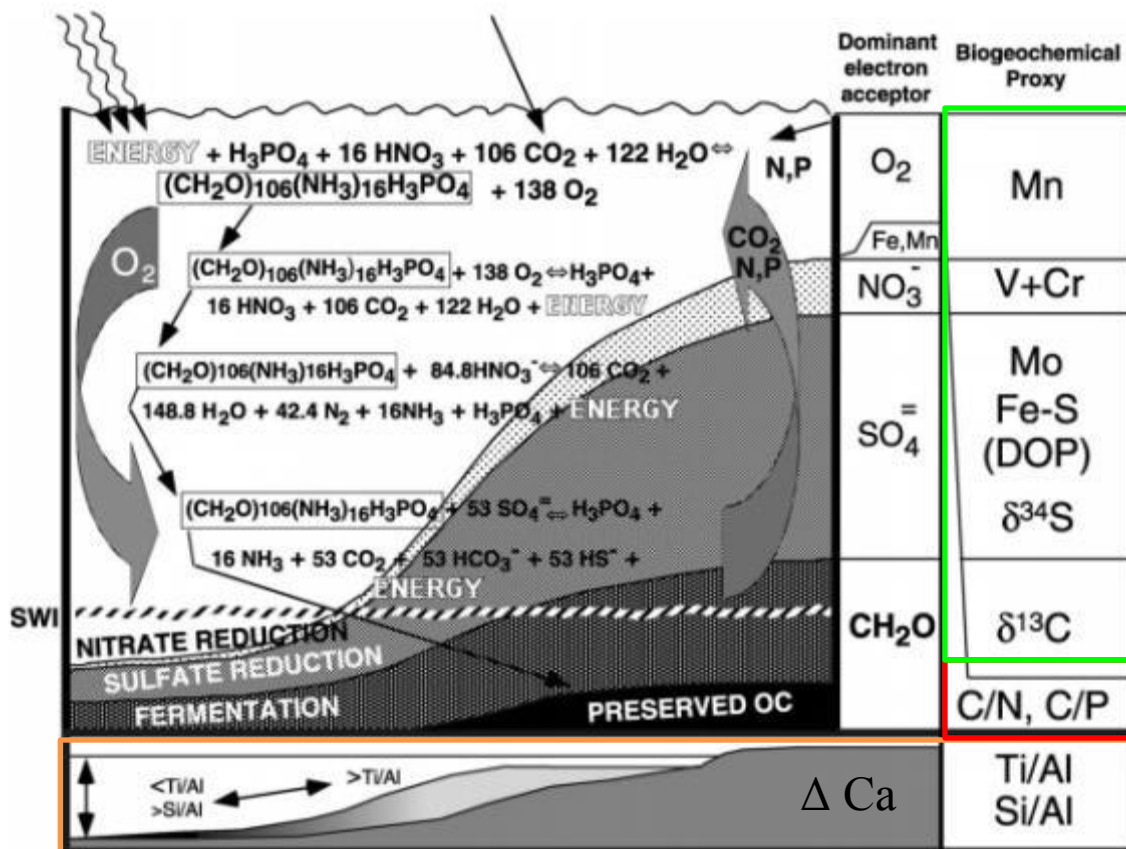


Figure 3.9: This figure ties chemical proxies to their importance in the paleo-environment. Green denotes paleo-redox proxies, red denotes paleo-production proxies, and orange denotes the detrital proxies. Modified from Sageman et al. 2003.

Detrital:

XRF results of the core from the MIP-3H well show an increase from the Onondaga below 7549 feet through the Marcellus in the amount of detrital influence as evidenced by a generally persistent decrease in the Si/Al ratio from greater than 10 to less than 5 (Figure 3-10). In the lower part of the Marcellus there is a less than 1-meter interval at 7539 feet picked up by the MSCL with a ratio of greater than 20, indicating very low detrital influence. The interval also has a high Ca percentage. Similar elevated Si/Al peaks and associated Ca peaks are picked up through the lower Marcellus (e.g., 7516 feet). There is a persistent increase in Zr enrichment in

the Marcellus upwards from less than 100ppm to more than 150ppm also indicating an increase in detrital influence. The most volatile changes in detrital or skeletal influence in the well occur within the thin intervals of carbonate shown by the Ca (Figure 3-10). Note the variation in absolute concentration of Al and Si between the MSCL and Hamilton XRF is the result of report as oxides versus elemental concentrations.

The TOC determined from core and spectral gamma ray logs (Uranium) shows that changes in detrital input as indicated by the Si/Al ratio and Zr enrichment do have influence on organic matter.

Redox:

In the MIP 3H core, manganese (Mn) shows a persistent increase with scattered peaks through the Marcellus Shale from less than 100ppm to more than 200ppm. Throughout there are scattered peaks in Mn approaching 400ppm which are associated with peaks in Ca (Figure 3-11). The molybdenum (Mo) concentration in the lower Marcellus decreases rapidly above and below the interval and gradually decreases from the lower Marcellus to the Mahantango. A similar upwards decreasing trend with significant volatility is observed in both the sulfur/iron ratio (S/Fe), also represented as degree of pyritization (DOP). The degree of pyritization trend decreases from the lower Marcellus to the Mahantango. This trend relates closely to the pyrite density curve established from the CT-scan image analysis. The S/Fe show an irregular periodicity of 5 to 10 feet. The Thorium (Th) and Potassium (K) decrease with depth and are lowest in the organic peak of the lower Marcellus. Uranium (U) increases in concentration with depth and peaks in the middle and lower Marcellus. The Th/U ratio shows a persistent increase through the Marcellus Shale from 0.1 to about 2. The ratio remains below 2 suggesting the uranium is fixed throughout the deposition of the Marcellus Shale. Additionally relating this

trend to oxygen content we see an increase in oxygen from the lower Marcellus to the Mahantango with decreases in oxygen content at the TOC peaks in the middle and low Marcellus.

Paleo-production:

Yttrium (Y) and phosphorous (P) show only a small decrease upwards through the Marcellus (Figure 3-12). Nickel (Ni), zinc (Zn) and vanadium (V) show a significant decrease upwards from the lower part of the Marcellus that correlates with the decrease in TOC. This suggests that there is better preservation of organic matter in the lower Marcellus compared to the rest of the unit, and is consistent with the euxinic redox conditions and the decreased detrital influence in the Lower Marcellus.

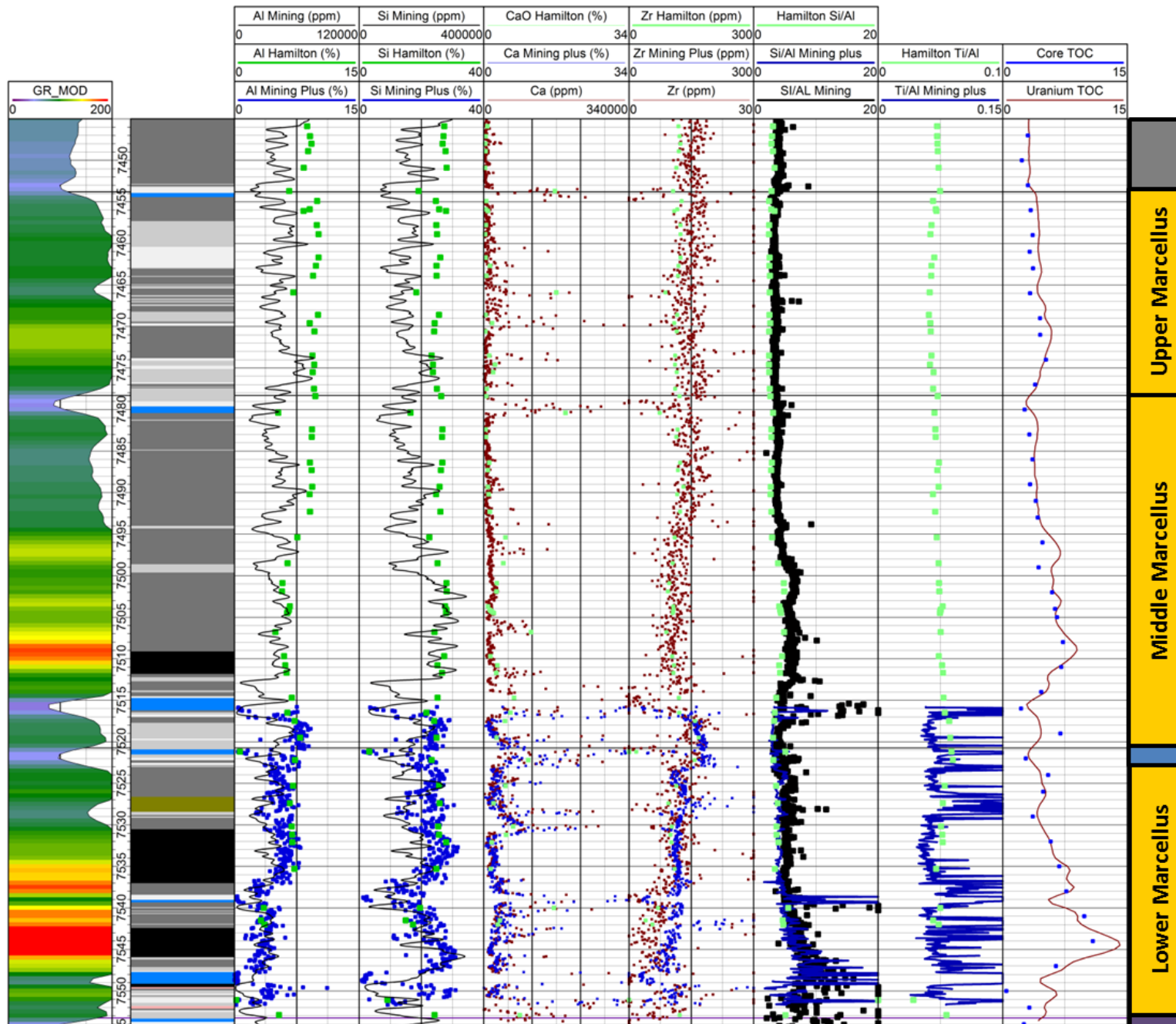


Figure 3.10: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine detrital influence. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – aluminum (Al) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 4 – silicon (Si) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 5 – calcium (Ca) from Hamilton (green), MSCL Soil Suite (red), MSCL Mining-Plus Suite (blue); Column 6 -- zircon (Zr) from Hamilton (green), MSCL Soil Suite (red), MSCL Mining-Plus Suite (blue); Column 7 – Ratio of silicon to aluminum (Si/Al) from Hamilton (green), MSCL Mining Suite (black), MSCL Mining-Plus Suite (blue); Column 8 - Ratio of titanium to aluminum (Ti/Al) from Hamilton (green) and MSCL Mining-Plus Suite (blue). Column 9 – Total organic carbon from

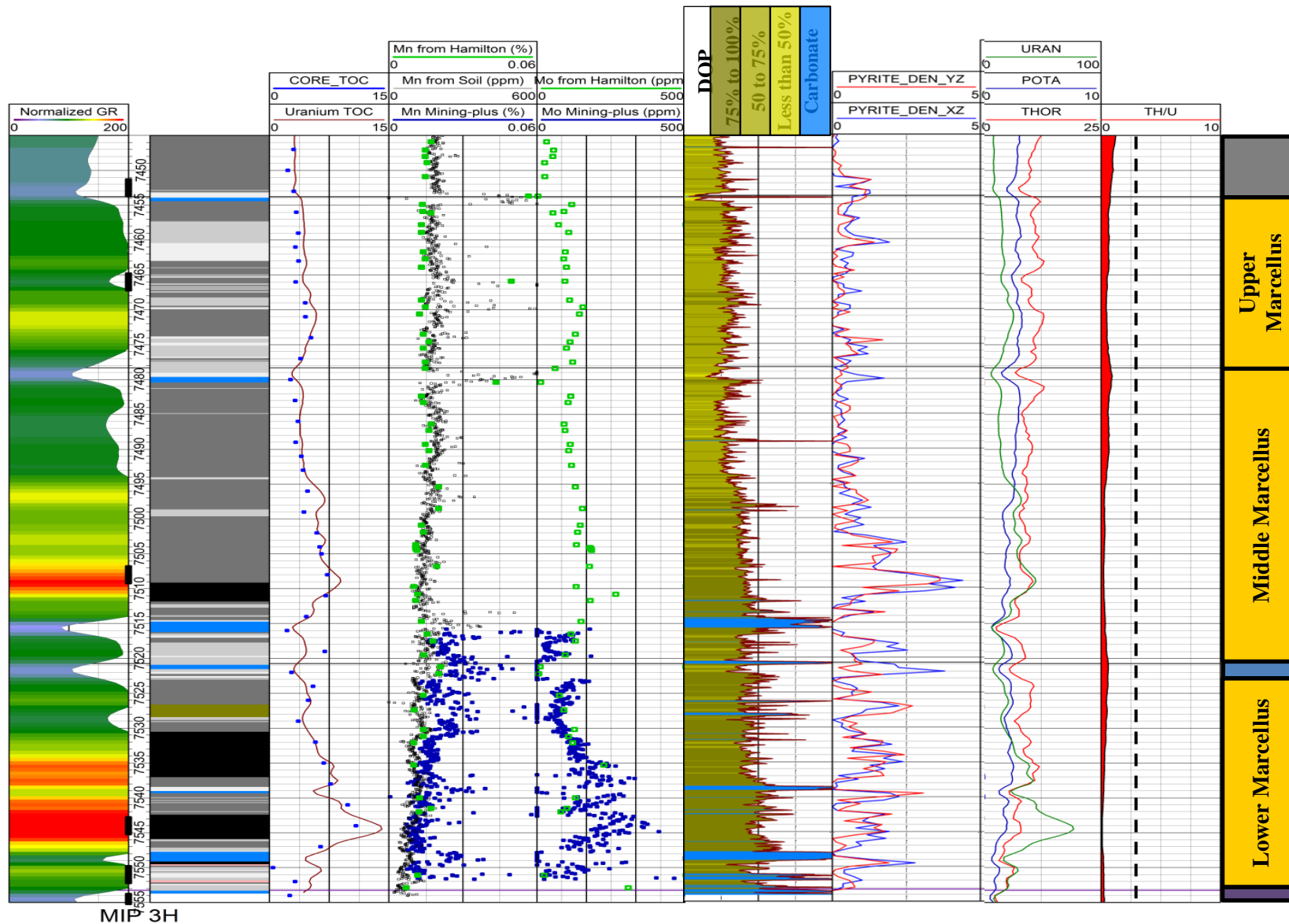


Figure 3.11: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine paleo-redox conditions. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – total organic carbon from core (blue) and total organic carbon from uranium (red), Column 4 – manganese (Mn) from Hamilton Suite (green), MSCL Soil Suite (red), and MSCL Mining-Plus Suite (Blue); Column 5 – molybdenum (Mo) from Hamilton Suite (green) and MSCL Mining-Plus Suite (blue), Column 6 –S/Fe ratio from Soil Suite (red) shading behind the curve denote the degree of pyritization (DOP) (100 to 75%, dark yellow, 75 to 50%, gold-yellow, less than 50, yellow, limestone, blue); Column 7 – pyrite density from medical CT-scan (red YZ plan, blue XZ plan); Column 8 – Spectral Gamma Ray logs: uranium (U) (ppm) (green), thorium (Th) (ppm) (red), and potassium (K) (%) (blue); Column 9 – ratio of thorium to uranium (Th/U) values less than 2 are shaded red and represent a fixed uranium suggesting anoxic conditions throughout the Marcellus.

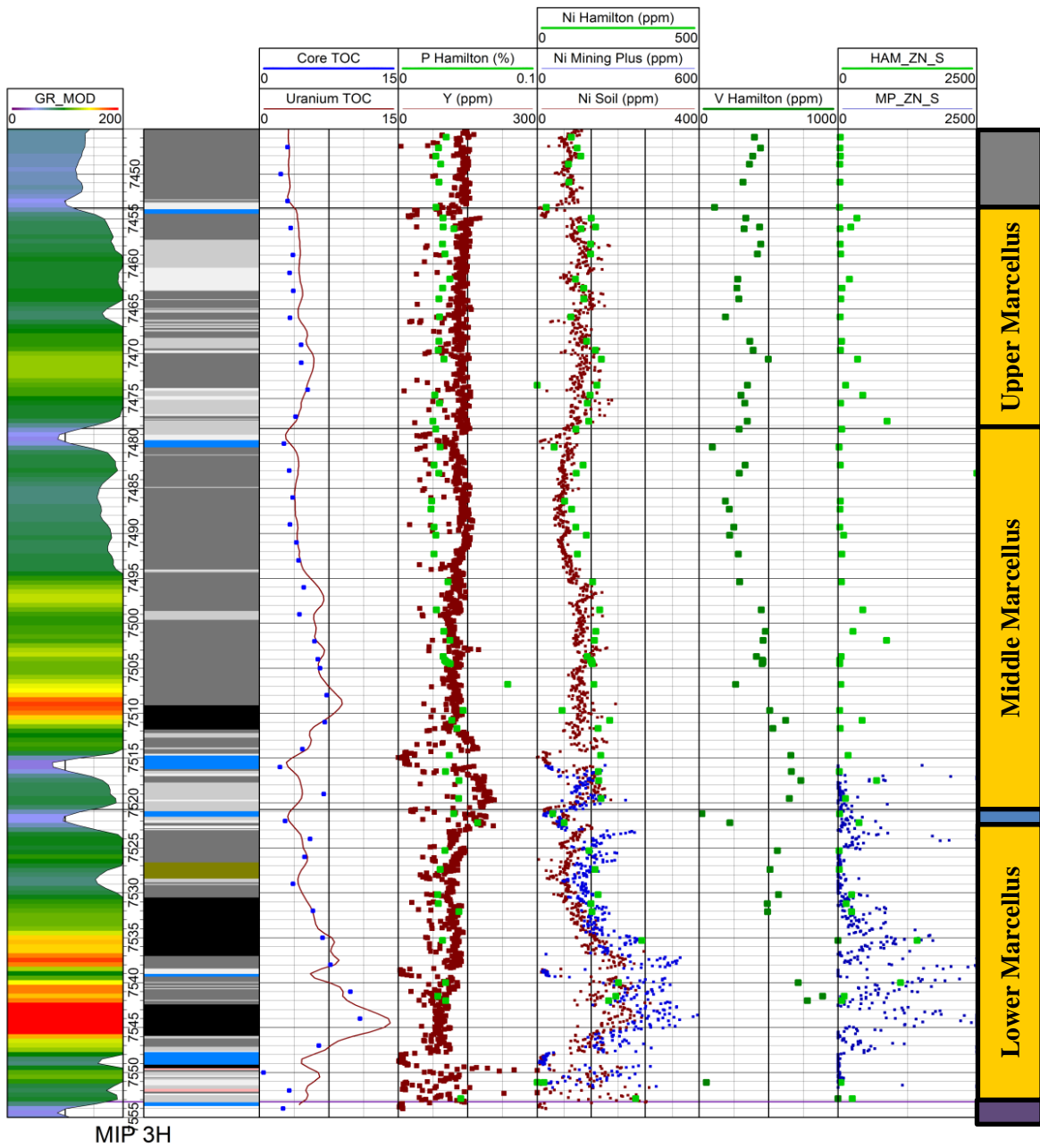


Figure 3-12: Well and core data from the MIP 3H. XRF data is from MSCL and Hamilton Lab analyses showing trends in elements used to determine paleo-redox conditions. Column 1 – Gamma ray log, Column 2 – Core Facies legend at base of figure, Column 3 – total organic carbon from core (blue) and total organic carbon from uranium (red), Column 4 – yttrium (Y) from MSCL Soil Suite (red) and phosphorous (P) from Hamilton Suite (green), Column 5 – nickel (Ni) from Hamilton Suite (green), MSCL Soil Suite (red), and MSCL Mining-Plus Suite (blue); Column 6 – vanadium (V) from Hamilton Suite, Column 7 – zinc from Hamilton Suite (green) and MSCL Mining-Plus Suite (blue).

Pulse Neutron Spectroscopy (PNS) logs

To compare the chemostratigraphy between the MIP-3H and MIP-4H wells, we examine chemical proxies between each well using the Pulse Neutron Spectroscopy (PNS) logs. The PNS log emits high energy neutrons into the formation and detects the returning neutron energy by a 254-channel gamma-ray detector. The returned spectrum includes both elastic/capture (C, O, Ca, Al, Mg, Si, S, and Fe) and inelastic components (H, Na, Cl, K, Ti, Cr, Ni, Ba, Gd, Ca, Al, Mg, Si, S, and Fe) (Schlumberger, 2006). The PNS in MIP-3H returns mostly major elements and Gadolinium and the PNS Suite in MIP-4H returns only major elements (Figure 3-13).

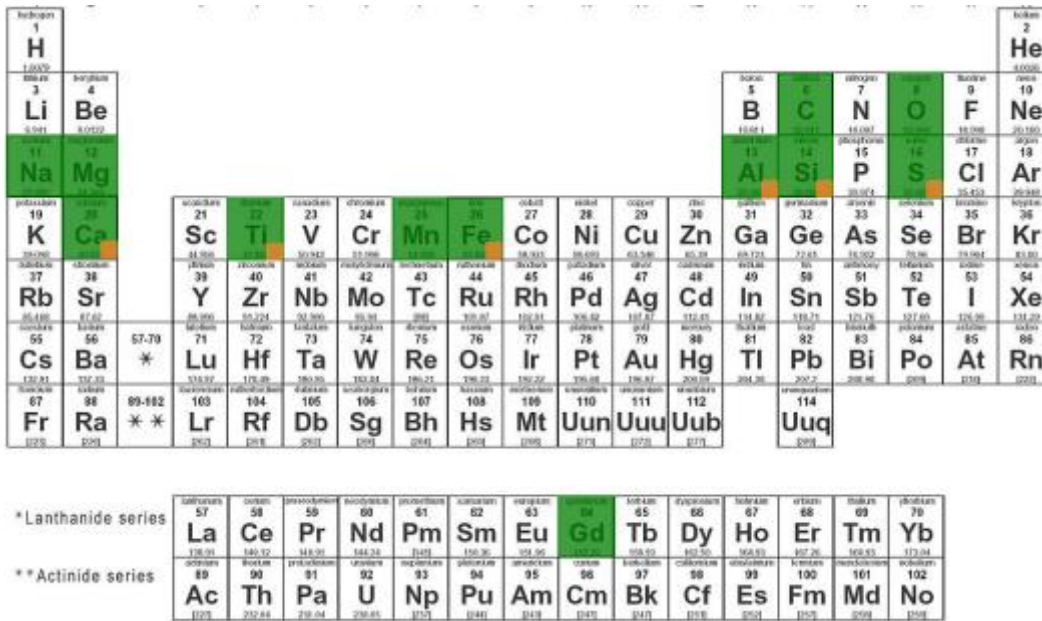


Figure 3-13: PNS derived elements, green are all elements capture through the lithoscanner tool and orange elements are the elements captured through the SpectroLith log

The PNS elements have strong/moderate correlations with Al, Ca, Fe, K, S, Si, and Ti and poor correlations with Mg and Mn (Figure 3-14). Given the strong correlations between the XRF and PNS logs, we are confident in the ability to use the PNS logs in MIP-4H. From the elementals present, we can use the PNS logs to distinguish differences in detrital input throughout the wells.

However, to understand paleo-redox conditions, we need to infer based on petrophysical logs (Density and Photoelectric specifically).

<i>Mining-plus vs. PNS</i>		
Al	0.31	
Ca	0.60	
Fe	0.73	
K	0.18	
Mn	-0.09	
S	0.54	
Si	0.63	
Ti	0.03	
<i>Hamilton vs. PNS</i>		
Al	0.59	
Ca	0.56	
Fe	0.47	
K	0.50	
Mg	-0.01	
Mn	-0.17	
Na	0.15	
Si	0.30	
Ti	0.54	

Figure 3-14: Correlation coefficients between the PNS log and Hamilton/Mining-plus suites for the MIP-3H well, correlations are displayed with bars between -1 and 1, where, negative values are red and positive values are blue.

The PNS elemental suite show similar trends to the XRF data detrital influence decreases with depth. Al and Ti concentrations decrease with depth with an increase in the Si/Al ratio. Si remains consistent throughout both wells suggesting that biogenic silica is likely present. Ca aligns with the low gamma peaks and increases in frequency and concentration in the lower Marcellus. Fe remains relatively consistent through both wells with a slight decrease in concentration in the MIP-4H well. Sulfur slightly increases with depth and Fe-S separation decreases with depth with some negative separation in the lower middle Marcellus and lower Marcellus. These zones align with the high gamma peaks and are likely attributed to anoxic to euxinic redox conditions (Figure 3-15).

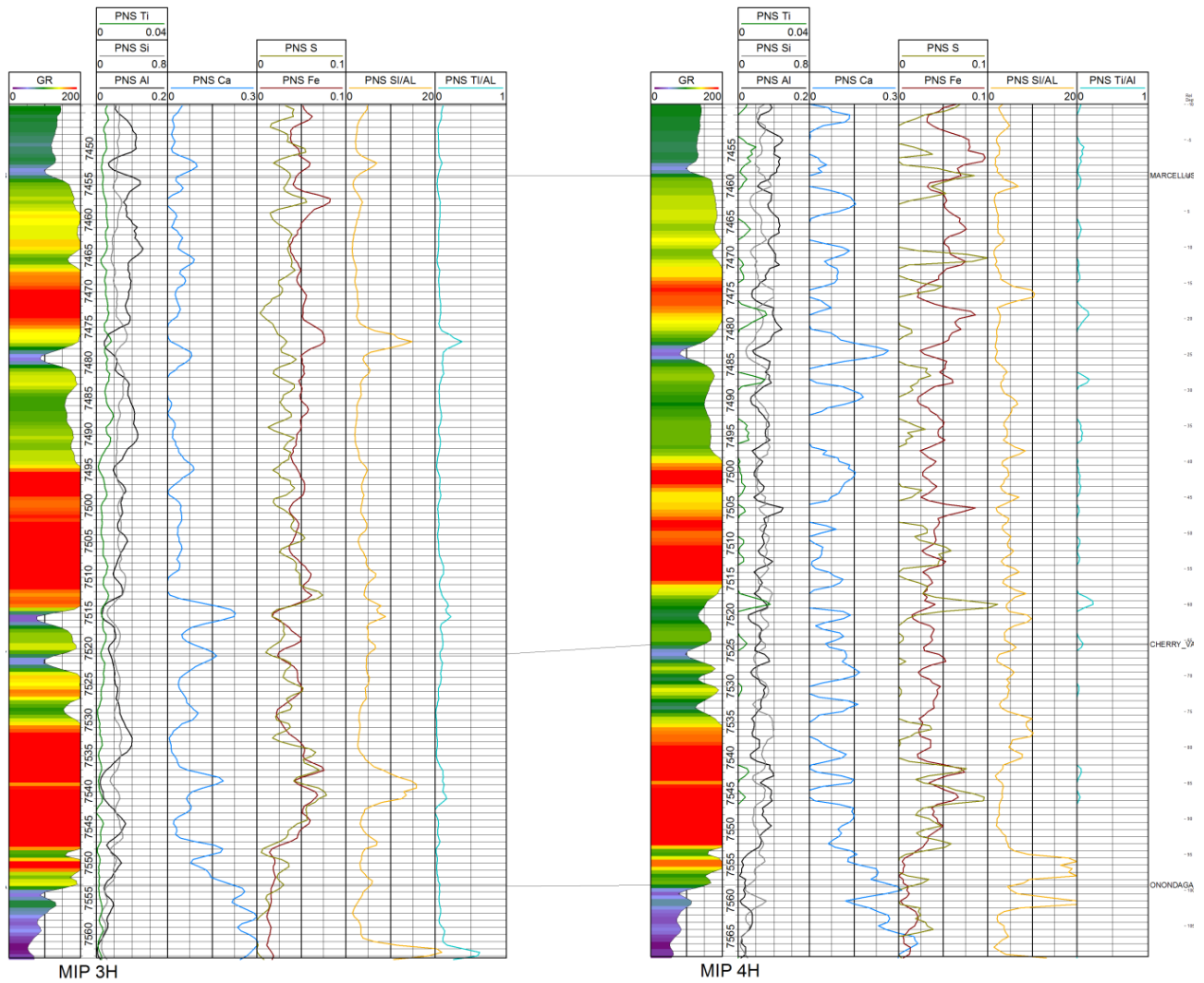


Figure 3-15: Cross-section of MIP3H and MIP4H: Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: PNS titanium (0-0.02), aluminum (0-0.15), Silicon (0-0.5); Tract 3: PNS calcium (0-.3); Tract 4: PNS iron and xulfur (0-.1), Tract 5: Ratio of silicon to aluminum (Si/Al) (0-20); Tract 6: Ratio of titanium to aluminum (Ti/Al)(0-0.5)

Due to the limitations of the PNS elemental data to distinguish redox zones, we use the petrophysical logs, specifically looking for zones of high density minerals and carbonate zones. High density pyrite nodules and calcite concretions occur across transitions from anoxic/euxinic to dysoxic/oxic bottom water conditions (Clark and Mosier, 1989) (Figure 3-16).

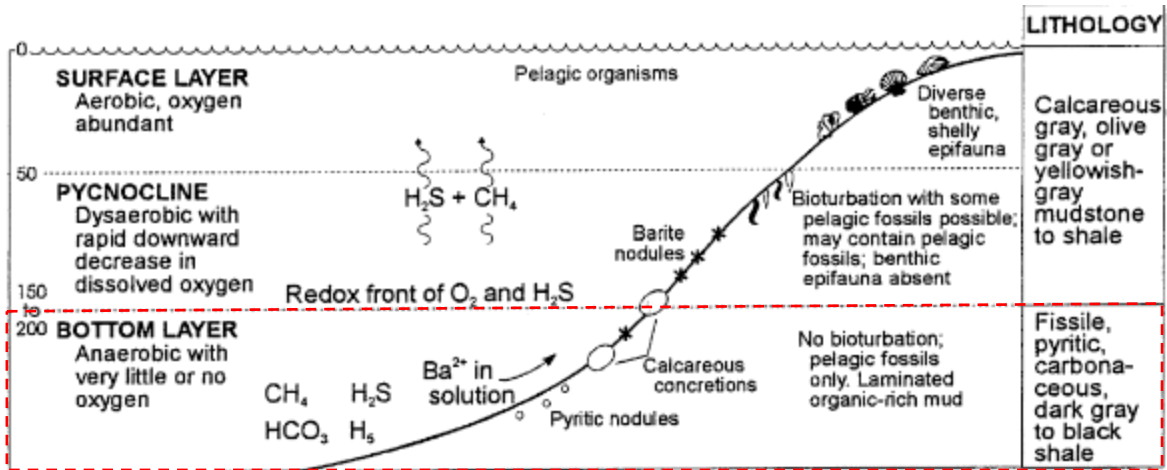


Figure 3-16: This figure shows concretions precipitated given bottom water conditions. The red box indicates the regime of the MIP-3H and MIP-4H (after Clark and Mosier 1989).

Marking out these zones we can redox zones that have approached euxinic redox conditions.

Both MIP-3H and MIP-4H wells have similar distributions of high density and carbonate zones with one exception in the transition between the middle and lower Marcellus through the Cherry Valley zone. MIP-4H has a small (2 foot) carbonate facies which pinches out in MIP-3H. The lower Marcellus has four redox transition zones, the bottom three are ranging from euxinic to anoxic and the top zone never reaches euxinic conditions (lacks high density mineral zone at transition). Seven zones were chosen from the middle Marcellus to the Mahantango. We find four zones that reach euxinic bottom water conditions, from the Middle Marcellus to the base of the Lower Marcellus and three zones that are anoxic to dysoxic in the upper portion of the upper Marcellus to the Marcellus-Mahantango contact. (Figure 3-17).

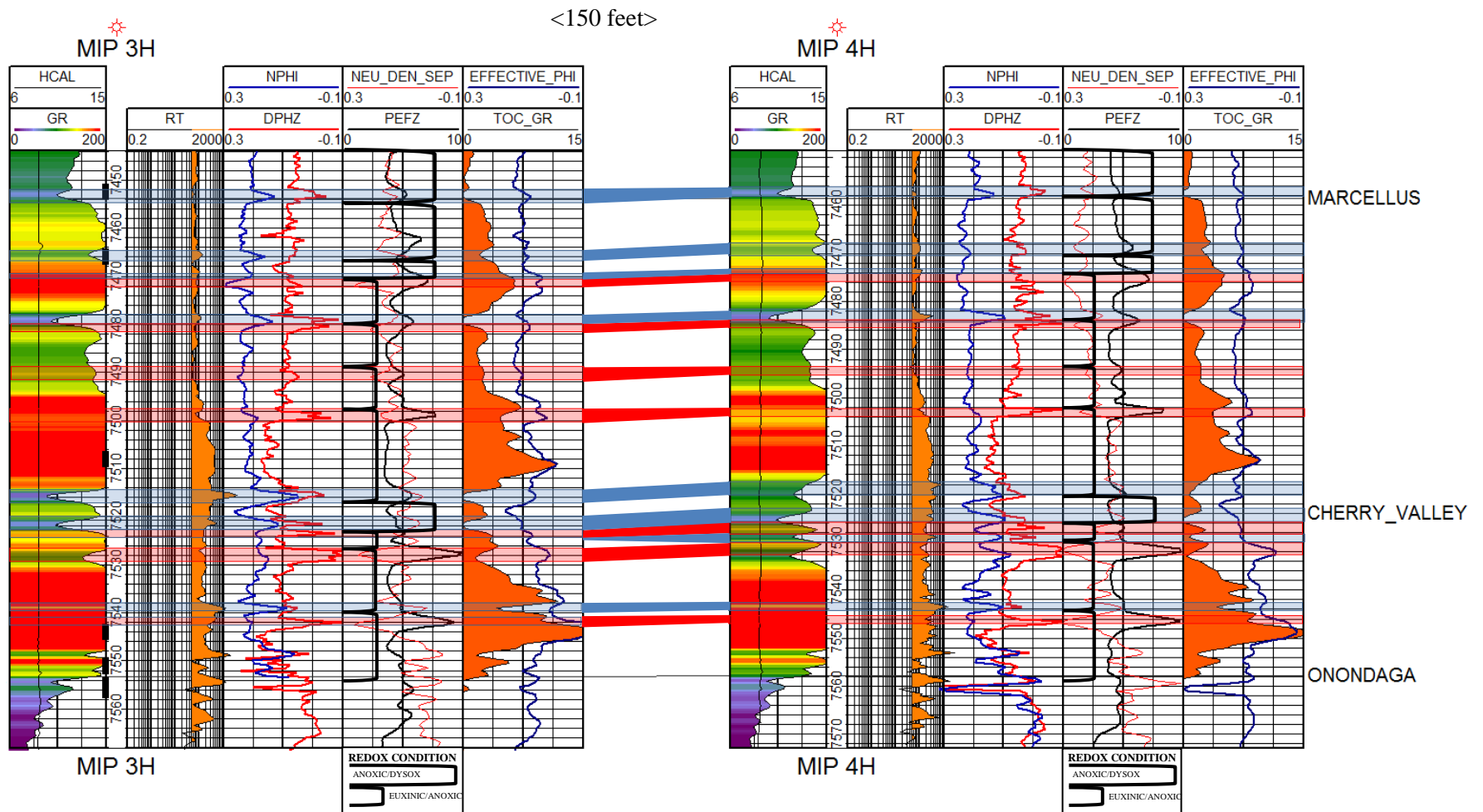


Figure 3-17: Cross-section of MIP3H and MIP4H: Tract 1: Gamma Ray (0-200 API with color display 0 – 300 API); Tract 2: Deep lateral array resistivity (ohm-m) orange shading (>100 ohm-m); Tract 3: neutron porosity (blue) density porosity (red); Tract 4: Neutron-Density separation (NEU_DEN_SEP)(red), Photoelectric log (PEFZ)(black/wide), Redox condition (black, extra wide) larger bracket indicates anoxic to dysoxic zone, smaller bracket (euxinic/anoxic conditions), Tract 5: Gamma Ray TOC (black line/orange shading) and effective porosity (dark blue). Red shading across logs indicates regions of high density minerals (High PE, strong positive NDS, decrease in RT), Blue shaded regions relate to carbonate intervals (NDS approaching 0, moderate PE, high RT)

CHAPTER 4: CONCLUSIONS

Marcellus Shale has been divided into 6 different meso-facies and 5 different macro-facies units, such as **Organic Siliceous Shale, Organic Mudstone, Organic Mixed Shale, Gray Siliceous Shale, Gray Mixed Shale** and **Gray Mudstone** (Carbonate interlayers are present sometimes (in Mahantango) in the meso-facies; and **Limestone, Light-Gray Shale, Mixed Dark-Gray Shale, Dark-Gray Shale,** and **Black Shale** (K-Bentonite found in Onondaga Limestone) in the macro-facies.

MIP-3H contains 5 meso-scale facies (lacking organic mudstone) and MIP-4H includes all 6 facies. We find that silica content increases with TOC in the high GR peaks in both the MIP-3H and MIP-4H wells. Lower TOC values in MIP-4H and slightly high clay content are attributed to thinner organic-rich facies in the well compared to MIP-3H. In the transition between middle Marcellus and lower Marcellus, there are more thinly layers carbonate intervals in MIP-4H.

XRF data from the hhXRF from NETL is limited by the total exposure time and detection limits. We find that a minimum exposure time of 60 seconds is optimal for the best results, however the hhXRF cannot differentiate phosphorous or magnesium regardless of runtime due to the close proximity of the detection limit (2 and 1.2%, respectively). The limitation of the hhXRF tool below and nearing the detection limits could also be a reason for the low correlation between the MSCL mining plus and Hamilton suites for titanium, considering there is lower detrital input in the lower Marcellus.

XRF data shows the Marcellus Shale in the MIP3H well ranges from dysoxic to anoxic throughout the well, increase in molybdenum and uranium trends in the Lower Marcellus suggests anoxic/euxinic conditions. Using zones of high density minerals at the contact of

dysoxic/oxic zones (via carbonate intervals), we were able to distinguish redox zones in both the MIP-3H and MIP-4H that relate to the XRF data. From this analysis, we find 10 redox transition zones in the Marcellus Shale, suggesting rapid changes in redox environment. The three-high gamma-ray peaks fall within euxinic to anoxic zones. From the Cherry Valley Limestone to the base of the middle Marcellus, there is a zone of anoxic/dysoxic bottom water conditions. Additionally, this is seen from the top of the high gamma-ray peak in the upper Marcellus through the Marcellus-Mahantango contact.

Production increases with depth, with peak production in the Lower Marcellus, as seen through a decrease in phosphorous and yttrium and an increase in nickel, zinc, and vanadium. This increase in production likely aids in the higher TOC values present in the lower Marcellus.

Additionally, the increase in TOC is aided by an overall decrease in the amount of detrital influence. This is shown through the XRF and PNS elemental data. Aluminum and titanium values decrease with depth and Si/Al ratio increase. The increase in Si/Al also suggests that silica content in the lower Marcellus is likely biogenic. This trend is mirrored by the overall decrease in clay mineralogy and mudstone facies and an increase in quartz and carbonate content and their associated facies in at meso- and macro-facies scale.

REFERENCES CITED

- Alzate, J.H. (2012). Integration of surface seismic, microseismic, and production logs for shale gas characterization: Methodology and field application (master's thesis). Retrieved from Mewbourne School of Petroleum and Geological Engineering.
- Alzate, J. H., and Devegowda, D (2013). Integration of surface seismic, microseismic, and production logs for shale gas characterization: Methodology and field application. Interpretation, *1*(2), SB37-SB49 pp.
- About, M., Badry, R., Grau, J., Herron, S., Hamichi, F., Horkowitz, J., Hemingway, J., MacDonald, R., Saldungaray, P., Stachiw, D., & Stoller, C. (2014). High-definition spectroscopy—determining mineralogic complexity. *Oilfield Review*, 26(1), 34-50.
- Algeo, T. J., & Maynard, J. B. (2004). Trace-element behavior and redox facies in core shales of Upper Pennsylvanian Kansas-type cyclothems. *Chemical Geology*, 206(3), 289-318.
- Brett, C. E., & Baird, G. C. (1996). Middle Devonian sedimentary cycles and sequences in the northern Appalachian Basin. *Special Papers-Geological Society Of America*, 213-242.
- Bhattacharya, S., & Carr, T. R. (2016). Integrated Petrofacies Characterization and Interpretation of Depositional Environment of the Bakken Shale in the Williston Basin, North America. *Petrophysics*, 57(02), 96-111.
- Chung, F.H. (1975a). Quantitative interpretation of x-ray diffraction patterns of mixtures. III. Simultaneous determination of a set of reference intensities. *Journal of Applied Crystallography*, 8, 17-19
- Chung, F.H. (1975b). Quantitative interpretation of x-ray diffraction patterns of mixtures. I. Matrix-flushing method for quantitative multicomponent analysis. *Journal of Applied Crystallography*, 7, 519-525
- Clark, S. H., & Mosier, E. L. (1989). Barite nodules in Devonian shale and mudstone of western Virginia.
- Crain, E. R., & Holgate, D. (2014). A 12-Step Program to Reduce Uncertainty in Kerogen-Rich Reservoirs. *GeoConvention: Focus. Canadian Society of Petroleum Geologists, Calgary*, 1-11.
- Crandall, D., Moore, J., Brown, S., & Paronish, T. (2017). CT Scanning and Geophysical Logging of Core from the Marcellus Shale Energy and Environment Laboratory; NETL-TRS- X-2017; EPA Technical Report Series. *U.S. Department of Energy, National Energy Technology Laboratory: Morgantown, WV*, 2017, 1-41.
- Doveton, J. H. (1994). *Geologic Log Analysis Using Computer Methods* (1994).
- Ettensohn, F. R. (1985). Controls on development of Catskill Delta complex basin-facies. *Geological Society of America Special Papers*, 201, 65-78.

- Hertzog, R., Colson, L., Seeman, O., O'Brien, M., Scott, H., McKeon, D., Wraight, P., Grau, J., Ellis, D., Schweitzer, J., & Herron, M. (1989). Geochemical logging with spectrometry tools. *SPE Formation Evaluation*, 4(02), 153-162.
- Hupp, B. N. (2017). Provenance of the Hamilton Group: A Study of Source-to-Sink Relationships within the Middle Devonian Central Appalachian Basin. West Virginia (master's thesis). Retrieved from Eberly College of Arts and Sciences at West Virginia University. Order No. 10608023.
- Hupp, B. N., & Donovan J. J. (2017). Quantitative mineralogy of the Marcellus Shale, Appalachian Basin, USA, based on XRD-XRF. *Chemical Geology*. Manuscript submitted for publication.
- International Center for Diffraction Data (ICDD), 2004, PDF-2 diffraction database.
- Lash, G. G., & Engelder, T. (2011). Thickness trends and sequence stratigraphy of the Middle Devonian Marcellus Formation, Appalachian Basin: Implications for Acadian foreland basin evolution. *AAPG bulletin*, 95(1), 61-103.
- Lazar, O. R., Bohacs, K. M., Macquaker, J. H., Schieber, J., & Demko, T. M. (2015). Capturing Key Attributes of Fine-Grained Sedimentary Rocks In Outcrops, Cores, and Thin Sections: Nomenclature and Description Guidelines. *Journal of Sedimentary Research*, 85(3), 230-246.
- Mavko, G., Mukerji, T., & Dvorkin, J. (2009). *The Rock Physics Handbook: Tools for Seismic Analysis of Porous Media*. Cambridge: Cambridge University Press.
- Maynard, B. J. (2014). Manganiferous Sediments, Rocks, and Ores. In: Holland H.D. and Turekian K.K. (eds.) *Treatise on Geochemistry, Second Edition*, 9, 327-349. Oxford: Elsevier.
- Passey, Q. R., Creaney, S., Kulla, J. B., Moretti, F. J., & Stroud, J. D. (1990). A practical model for organic richness from porosity and resistivity logs. *AAPG bulletin*, 74(12), 1777-1794.
- Potts, P. J., & Webb, P. C. (1992). X-ray fluorescence spectrometry. *Journal of Geochemical Exploration*, 44(1-3), 251-296.
- Pollard, D. D., & Fletcher, R. C. (2005). *Fundamentals of structural geology*. Cambridge University Press.
- Perez Altamar, R., & Marfurt, K. (2014). Mineralogy-based brittleness prediction from surface seismic data: Application to the Barnett Shale. *Interpretation*, 2(4), T255-T271.
- Sageman, B. B., Murphy, A. E., Werne, J. P., Ver Straeten, C. A., Hollander, D. J., & Lyons, T. W. (2003). A tale of shales: the relative roles of production, decomposition, and dilution in the accumulation of organic-rich strata, Middle–Upper Devonian, Appalachian basin. *Chemical Geology*, 195(1), 229-273.

- Schlumberger (2006). ECS Elemental Capture Spectroscopy Sonde [Brochure]. N.P.: Schlumberger.
- Schmoker, J. W. (1981). Determination of organic-matter content of Appalachian Devonian shales from gamma-ray logs. *AAPG Bulletin*, 65(7), 1285-1298.
- Shervais, J. W. (1982). Ti-V plots and the petrogenesis of modern and ophiolitic lavas. *Earth and Planetary Science Letters*, 59(1), 101-118.
- Wang, G. (2012). Black Shale Lithofacies Prediction and Distribution Pattern Analysis of Middle Devonian Marcellus Shale in the Appalachian Basin, Northeastern U.S.A. West Virginia University, Morgantown, unpublished PhD dissertation.
- Wang, G., & Carr, T. R. (2013). Organic-rich Marcellus Shale lithofacies modeling and distribution pattern analysis in the Appalachian Basin. *AAPG bulletin*, 97(12), 2173-2205.
- Williams, H., & Hatcher, R. D. (1982). Suspect terranes and accretionary history of the Appalachian orogen. *Geology*, 10(10), 530-536.
- Witzke, B. J., & Heckel, P. H. (1988). Paleoclimatic indicators and inferred Devonian paleolatitudes of Euramerica. *Canadian Society of Petroleum Geologist Memoir*, 14(1), 49-63.
- Weicht, D. (2015). 3D Seismic, Mechanical Stratigraphy, and Petrophysical Analysis of the Marcellus Shale in Taylor County, West Virginia (master's thesis). Retrieved from Eberly College of Arts and Sciences at West Virginia University. (UMI Number: 1588158)
- US EIA (2015). Oil and Gas Supply Module. *Assumptions to Annual Energy Outlook 2015*. 128-146.

Appendix A: Source rock Pyrolysis data

ID	Depth	TOC	vTPH(S1)	pTPH(S2)	S3	cTemp(Tmax)	HI	OI	PI	S1/TOC	tTemp
MIP 3H - 01	7445	3.04	0.06	0.12	0.20	306.8	4	7	0.35	0.02	345.8
MIP 3H - 02	7448	3.07	0.08	0.13	0.21	323.3	4	7	0.38	0.03	362.3
MIP 3H - 03	7451	2.27	0.28	0.27	0.47	318.0	12	21	0.51	0.12	357.0
MIP 3H - 04	7454	3.01	0.06	0.05	0.24	307.4	2	8	0.51	0.02	346.4
MIP 3H - 05	7457	3.34	0.11	0.16	0.34	288.5	5	10	0.41	0.03	327.5
MIP 3H - 06	7460	3.62	0.21	0.30	1.34	320.5	8	37	0.41	0.06	359.5
MIP 3H - 07	7462	3.22	0.07	0.15	0.23	322.2	5	7	0.32	0.02	361.2
MIP 3H - 08	7464	3.66	0.05	0.15	0.26	543.4	4	7	0.25	0.01	582.4
MIP 3H - 09	7467	3.19	0.14	0.12	0.24	317.8	4	8	0.54	0.04	356.8
MIP 3H - 10	7470	4.45	0.12	0.22	0.40	310.2	5	9	0.36	0.03	349.2
MIP 3H - 11	7473	4.54	0.07	0.20	0.20	360.7	4	4	0.27	0.02	399.7
MIP 3H - 12	7476	5.16	0.04	0.16	0.20	566.1	3	4	0.21	0.01	605.1
MIP 3H - 13	7479	3.73	0.06	0.12	0.14	567.0	3	4	0.32	0.02	606.0
MIP 3H - 14	7482	2.60	0.16	0.29	0.42	325.0	11	16	0.35	0.06	364.0
MIP 3H - 15	7485	3.26	0.04	0.11	0.13	566.2	3	4	0.24	0.01	605.2
MIP 3H - 16	7488	3.60	0.11	0.19	0.35	315.4	5	10	0.38	0.03	354.4
3H-7488_16	7488	3.19	0.11	0.14	0.31	314.8	4	10	0.45	0.04	353.8
MIP 3H - 17	7491	3.31	0.12	0.17	0.37	314.1	5	11	0.42	0.04	353.1
MIP 3H - 18	7493	4.01	0.17	0.28	0.34	316.1	7	9	0.37	0.04	355.1
MIP 3H - 19	7495	4.23	0.06	0.20	0.31	342.2	5	7	0.24	0.01	381.2
MIP 3H - 20	7498	4.78	0.09	0.18	0.24	566.1	4	5	0.33	0.02	605.1
MIP 3H - 21	7501	4.30	0.05	0.14	0.31	562.8	3	7	0.29	0.01	601.8
MIP 3H - 22	7504	5.92	0.13	0.28	0.26	563.4	5	4	0.32	0.02	602.4
MIP 3H - 23	7507	6.34	0.30	0.36	0.31	296.8	6	5	0.46	0.05	335.8
MIP 3H - 24	7510	7.21	0.09	0.27	0.31	563.2	4	4	0.26	0.01	602.2
MIP 3H - 25	7513	7.18	0.12	0.26	0.20	563.3	4	3	0.33	0.02	602.3
MIP 3H - 26	7516	5.07	0.11	0.18	0.33	562.7	3	6	0.39	0.02	601.7
MIP 3H - 27	7519	1.80	0.10	0.10	0.35	316.8	6	19	0.49	0.05	355.8
MIP 3H - 28	7522	7.25	0.19	0.29	0.43	564.4	4	6	0.40	0.03	603.4
MIP 3H - 29	7525	2.72	0.06	0.07	0.31	561.9	3	12	0.45	0.02	600.9
MIP 3H - 30	7527	5.55	0.22	0.41	0.31	391.6	7	6	0.34	0.04	430.6
MIP 3H - 31	7529	4.76	0.08	0.12	0.37	558.6	3	8	0.39	0.02	597.6
MIP 3H - 32	7532	3.53	0.09	0.11	0.44	563.7	3	13	0.44	0.03	602.7
MIP 3H - 33	7535	5.87	0.14	0.16	0.28	565.4	3	5	0.47	0.02	604.4
MIP 3H - 34	7538	6.86	0.14	0.24	0.33	560.7	3	5	0.37	0.02	599.7
3H-7538_34	7538	6.54	0.18	0.30	0.33	564.7	5	5	0.38	0.03	603.7
3H-7541_35	7541	7.70	0.13	0.29	0.38	547.6	4	5	0.32	0.02	586.6
MIP 3H - 36	7544	9.88	0.12	0.36	0.40	562.9	4	4	0.25	0.01	601.9
3H-7544_36	7544	9.20	0.17	0.45	0.33	562.3	5	4	0.28	0.02	601.3

Table A-1: Pyrolysis Data from NETL Source rock analyzer, 7445 to 7544' (Core depth).

ID	Depth	TOC	vTPH(S1)	pTPH(S2)	S3	cTemp(Tmax)	HI	OI	PI	S1/TOC	tTemp
MIP 3H - 37	7547	10.91	0.12	0.52	0.46	562.7	5	4	0.18	0.01	601.7
3H-7547_37	7547	10.13	0.15	0.60	0.39	564.6	6	4	0.20	0.01	603.6
MIP 3H - 38	7550	7.00	0.19	0.29	0.20	564.4	4	3	0.39	0.03	603.4
MIP 3H - 39	7553	0.44	0.06	0.09	0.07	358.9	21	15	0.41	0.14	397.9
MIP 3H - 40	7555	3.17	0.06	0.07	0.37	563.4	2	12	0.45	0.02	602.4
3H-7555_40	7555	2.88	0.07	0.08	0.36	566.1	3	12	0.45	0.02	605.1
MIP 3H - 41	7557	2.55	0.07	0.11	0.24	337.1	4	9	0.38	0.03	376.1
3H-7557_41	7557	2.37	0.07	0.14	0.21	354.5	6	9	0.35	0.03	393.5

Table A-2: Pyrolysis Data from NETL Source rock analyzer, 7547 to 7557' (Core depth).

Appendix B: X-Ray Diffraction data

Two series of XRD data were used in this study from Hupp, 2017. The RIR XRD data set (Table B-1).and the quantitative XRF-XRD set (Table B-2).

RIR X-ray Diffraction

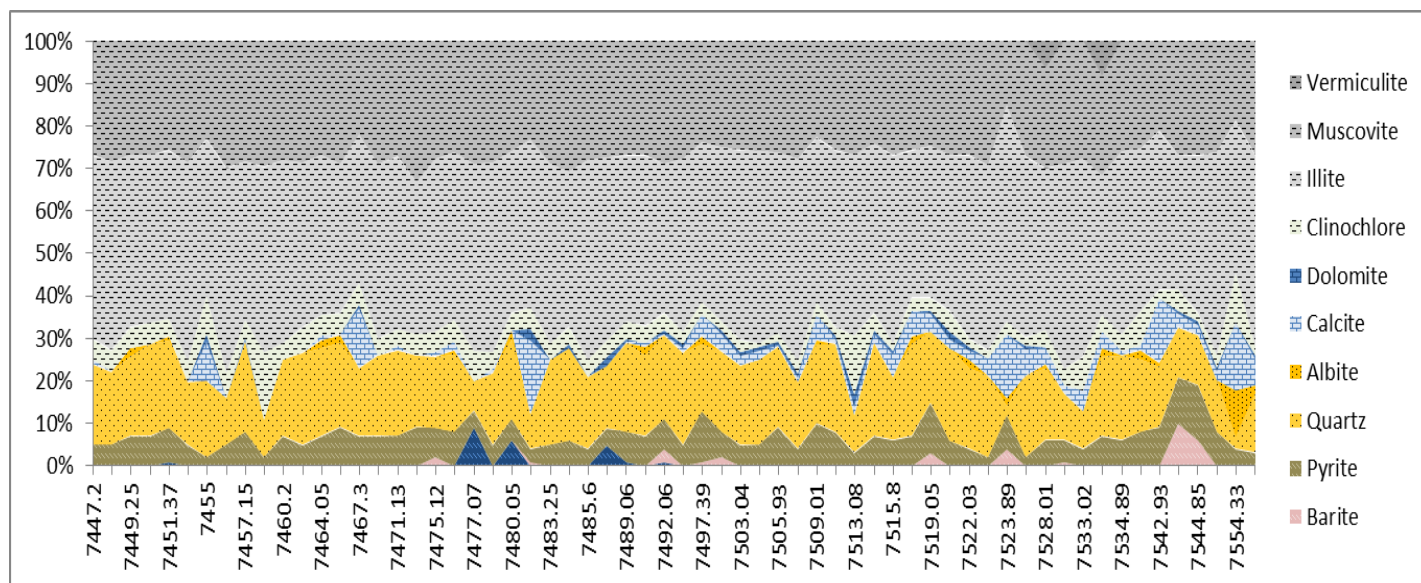


Figure B-1: Visual display of RIR XRD mineralogy from Table B-2

Depth	Quartz	Illite	Muscovite	Clinochlo	Vermiculite	Pyrite	Covellite	Albite	Calcite	Dolomite	Barite	Zeolite	Quartz	Illite+Musc
7447.2	19	43	27	5	0	5	0	0	1	0	0	0	19	70
7448.35	17	44	28	5	0	5	0	0	0	0	0	0	17	72
7449.25	19	41	27	5	0	7	0	2	0	0	0	0	19	68
7450.2	22	40	27	5	0	7	0	0	0	0	0	0	22	67
7451.37	21	40	26	4	0	8	1	1	0	0	0	0	21	66
7452.22	15	47	29	5	0	5	0	0	0	0	0	0	15	76
7455	18	37	23	9	0	2	0	0	9	2	0	0	18	60
7456.16	11	48	30	6	0	5	0	0	0	0	0	0	11	78
7457.15	21	37	28	4	0	8	0	0	0	1	0	0	21	65
7459.13	9	44	30	16	0	2	0	0	0	0	0	0	9	74
7460.2	18	43	28	4	0	7	0	0	0	0	0	0	18	71
7463.1	22	39	29	6	0	5	0	0	0	0	0	0	22	68
7464.05	21	38	27	5	0	7	0	2	1	0	0	0	21	65
7465.3	20	35	29	5	0	9	0	2	0	0	0	0	20	64
7467.3	16	35	22	5	0	7	0	0	14	1	0	0	16	57
7470.05	19	41	29	4	0	7	0	0	0	0	0	0	19	70
7471.13	20	40	27	4	0	7	0	0	1	0	0	0	20	67
7472.09	17	36	33	5	0	9	0	0	0	0	0	0	17	69
7475.12	17	41	28	5	0	7	0	0	1	0	2	0	17	69
7476.15	18	39	26	5	0	8	0	1	2	0	0	0	18	65
7477.07	7	44	29	7	0	4	9	0	0	0	0	0	7	73
7479.05	17	45	29	4	0	5	0	0	1	0	0	0	17	74
7480.05	19	38	26	4	0	5	6	2	0	0	0	0	19	64
7482.12	8	39	23	5	0	3	0	0	17	3	1	0	8	62
7483.25	20	42	29	4	0	5	0	0	0	0	0	0	20	71
7485.03	22	37	31	4	0	6	0	0	0	1	0	0	22	68
7485.6	17	47	28	4	0	4	0	0	0	0	0	0	17	75
7488.15	15	44	28	4	0	4	5	0	0	2	0	0	15	72
7489.06	21	39	27	4	0	7	1	0	0	1	0	0	21	66
7491.22	19	40	27	4	0	7	0	2	1	0	0	0	19	67
7492.06	20	35	29	4	0	7	1	0	0	1	3	0	20	64
7494.2	22	41	28	3	0	5	0	0	1	1	0	0	22	69
7497.39	16	38	24	3	0	12	0	2	5	0	1	0	16	62
7500.6	19	41	25	2	0	6	0	0	4	1	2	0	19	66
7503.04	19	45	26	3	0	5	0	0	2	1	0	0	19	71
7503.98	20	45	26	1	0	5	0	0	2	1	0	0	20	71
7505.93	19	42	26	2	0	9	0	0	0	1	0	0	19	68
7506.99	16	48	28	3	0	4	0	0	1	1	0	0	16	76
7509.01	19	39	23	3	0	10	0	1	6	0	0	0	19	62
7512.01	21	42	26	2	0	8	0	0	1	1	0	0	21	68
7513.08	9	43	27	14	0	3	0	0	2	3	0	0	9	70
7514.1	22	40	24	4	0	7	0	0	2	1	0	0	22	64
7515.8	15	44	27	2	0	6	0	0	5	1	0	0	15	71
7517.23	22	35	26	3	0	7	0	2	6	0	0	0	22	61
7519.05	17	36	25	3	0	12	0	0	4	1	3	0	17	61
7520.13	22	37	27	5	0	6	0	0	2	2	0	0	22	64
7522.03	19	43	27	2	0	4	0	2	2	1	0	0	19	70
7523.03	19	43	29	2	0	2	0	0	4	0	0	0	19	72
7523.89	2	51	15	3	0	8	0	2	15	0	4	0	2	66
7524.9	19	42	27	2	0	2	0	0	6	1	0	0	19	69
7528.01	17	38	24	4	6	6	0	1	4	0	0	0	17	62
7530.05	11	48	29	4	0	5	0	0	2	0	1	0	11	77
7533.02	9	47	28	8	0	4	0	0	5	0	0	0	9	75
7534.04	19	33	24	4	8	7	0	2	4	0	0	0	19	57
7534.89	20	43	26	4	0	6	0	0	1	0	0	0	20	69
7538.15	17	38	25	8	0	8	0	2	1	0	0	0	17	63
7542.93	14	37	21	2	0	9	0	1	15	0	0	0	14	58
7544.37	12	32	27	5	0	11	0	0	3	1	10	0	12	59
7544.85	12	37	27	2	0	13	0	0	2	1	6	0	12	64
7545.77	12	47	26	3	0	8	0	0	2	1	0	0	12	73
7554.33	3	36	19	12	0	4	0	11	16	0	0	0	3	55
7556.15	14	45	27	2	0	3	0	2	6	1	0	0	14	72

Table B-1: RIR XRD, Depth in red indicates points in the Mahantango and purple points indicate points in the Marcellus.

XRF-XRD Mineralogy:

Sample	Quartz	Musc.+Ill.	Chlorite	Pyrite	Albite	Calcite	Dolomite	Barite	Normalization
7455	27.2	19.6	10.66	8.66	2.94	28.7	2.01	0.19	0.939
7456	33	40.8	9.3	8.82	6.79	0.97	0	0.3	0.987
7457.2	37.4	36.8	8.04	9.37	6.55	0.67	0.76	0.38	0.98
7459	32.9	39.2	9.73	10.37	6.43	1.01	0	0.3	0.954
7460.2	33.3	40.8	10.01	8.46	6.42	0.66	0	0.28	0.965
7463	34.8	40.4	9.53	7.22	6.63	0.84	0	0.58	0.987
7464	33.2	40	9.54	7.7	6.39	2.94	0	0.3	0.99
7465	33.7	38.2	9.14	10.14	6.77	1.27	0	0.73	0.976
7467.3	23.4	25.9	6.75	8.03	4.04	29.9	1.68	0.25	0.945
7470.1	34.6	40.7	9.15	7.69	6.68	0.95	0	0.27	0.966
7471	33.8	37.9	7.93	8.6	6.21	3.46	0.81	1.31	0.984
7472	32.5	41	9.35	8.25	6.61	0.84	0	1.44	0.983
7475	30.8	39	8.9	8.9	6.44	2.65	0	3.24	0.985
7476	30.6	39.7	8.89	9.16	6.19	5.16	0	0.29	0.98
7477	30.9	38.1	8.58	12.06	5.8	4.27	0	0.25	0.97
7479	35.1	40.2	8.51	7.59	6.84	1.49	0	0.27	0.988
7480.1	36.6	39.6	8.49	6.88	6.87	1.2	0	0.35	0.989
7482.1	21.8	19.2	10.85	6.41	3.68	32.4	4.09	1.63	0.783
7484	38.1	38.8	8.93	6.21	6.79	0.89	0	0.27	0.984
7485	37.5	38.6	9.32	5.85	6.89	0.57	0.94	0.27	0.978
7485.6	37.8	38	8.85	7.49	6.62	0.94	0	0.28	0.977
7488	38.4	37.7	5.38	7.65	6.41	0.49	3.7	0.28	0.983
7489	36.7	37.9	7.83	8.06	6.55	1.02	1.68	0.26	0.981
7491.2	35.6	38.6	8.38	7.81	6.92	1.46	0.85	0.3	0.981
7492	32.8	35.3	7.39	8.41	6.4	1.33	1.6	6.73	0.938
7494	37.1	38	7.41	6.95	6.67	1.78	1.87	0.25	0.985
7497	31.1	30.9	6.2	14.3	5.7	9	1.12	1.63	0.935
7500.6	39.9	26.9	4.3	8.81	6.02	7.49	2.34	4.27	0.961
7503	51.7	25.4	0	8.87	5.19	3.19	5.48	0.18	0.99
7505	46.9	28.3	0	13.45	5.91	0	5.21	0.2	0.961
7506	50.2	29.1	0	9.03	5.86	0.07	5.52	0.19	0.986
7509	40.5	20.4	0	11.93	4.36	17.4	5.25	0.19	0.933
7512	51.1	26.2	0	10.81	6	0.31	5.4	0.21	0.952
7513	45.9	28.5	0	9.67	5.59	2.59	7.58	0.2	0.991
7514	47.9	28.4	0	9.43	5.34	2.88	5.78	0.19	0.995
7515	41.3	31.8	0	9.38	5.91	5.24	6.07	0.2	0.971
7517	39.9	30	0	7.33	6.44	11	5.23	0.22	0.971
7519	32.1	25.6	0	12.81	5.45	7.37	7.62	8.97	0.884
7520.1	37.4	32.4	0	8.02	6.7	3.56	11.74	0.23	0.971

7522	38.5	35.8	0	8.45	7.89	2.86	6.26	0.29	0.998
7523	35.6	37.3	0	5.19	6.75	8.97	5.79	0.32	0.969
7523.9	5.3	1.6	0	3.81	0.9	75.3	2.72	10.34	0.854
7524	34.2	31.5	0	4.41	6.43	15.8	7.37	0.31	0.975
7528	41.4	31.4	0	8.17	6.09	6.94	5.76	0.2	0.929
7530	41.3	29.9	0	11.56	6.28	1.81	4.69	4.53	0.979
7533	39.4	30.7	0	8.24	6.03	10.4	5.04	0.23	0.982
7534	40.8	31.5	0	8.13	6.56	7.37	5.37	0.29	0.995
7534.9	47.2	32	0	7.94	6.58	0.93	5.18	0.19	0.993
7538	40.2	34.3	0	11.5	7.06	0	6.66	0.22	0.94
7542.9	35.4	16	0	9.64	4.77	30.4	3.64	0.18	0.933
7544.4	27.7	15.9	0	11.36	6.21	5.95	4.61	28.28	0.955
7544.9	30.7	17.1	0	16.5	6.14	4.71	3.93	20.94	0.95
7545	44	24.4	0	14.73	5.05	3.96	7.65	0.22	0.977
7554.3	23.2	0	0	0.6	0	74.1	1.99	0.06	1.036
7556	40.4	26.2	0	7.4	5.57	12	8.26	0.19	0.951

Table B-2: XRF-XRD Mineralogy from Hupp and Donovan, 2018

Appendix C: Shale Lithofacies PETRA Advanced Transform file

```
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!
! SHALE LITHOFACIES MODEL
!
! THOMAS PARONISH 7/25/2016
! MODIFIED AFTER BHATTACHARYA AND CARR, 2016
!
! INPUTS:
! QUARTZ, CARB, CLAY, TOC
!
! OUTPUTS:
! ORGANICSILICEOUS, ORGANICMIXED, ORGANICMUDSTONE, GRAYSILICEOUS,
! GRAYMIXED, GRAYMUDSTONE, CARBONATE
! SHALE_LITHOFACIES, RQC
!
! THOMAS PARONISH 7/25/2016 MODIFIED AFTER BHATTACHARYA AND CARR, 2016
!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

LOGDEF NAME(ORGANICSILICEOUS) UNITS() DESC(ORGANIC SILICEOUS FACIES);
LOGDEF NAME(ORGANICMIXED) UNITS() DESC(ORGANIC MIXED FACIES);
LOGDEF NAME(ORGANICMUDSTONE) UNITS() DESC(ORGANIC MUDSTONE FACIES);
LOGDEF NAME(GRAYSILICEOUS) UNITS() DESC(GRAY SILICEOUS FACIES);
LOGDEF NAME(GRAYMIXED) UNITS() DESC(GRAY MIXED FACIES);
LOGDEF NAME(GRAYMUDSTONE) UNITS() DESC(GRAY MUDSTONE FACIES);
LOGDEF NAME(CARBONATE) UNITS() DESC(CARBONATE FACIES);
LOGDEF NAME(SHALE_LITHOFACIES) UNITS() DESC(COMBINTED SHALE FACIES);
LOGDEF NAME(RQC) UNITS() DESC(RATIO OF QUARTZ TO CARBONATE);
```


!!
! INPUT LOGS USED IN THE MODEL
!!

LOG QUARTZ IN;
LOG CARB IN;
LOG CLAY IN;
LOG TOC IN;

!!
! OUTPUT LOG USED IN THE MODEL
!!

LOG ORGANICSILICEOUS OUT;
LOG ORGANICMIXED OUT;
LOG ORGANICMUDSTONE OUT;
LOG GRAYSILICEOUS OUT;
LOG GRAYMUDSTONE OUT;
LOG GRAYMIXED OUT;
LOG CARBONATE OUT;
LOG SHALE_LITHOFACIES OUT;
LOG RQC OUT;

!!
! CONSTANTS USED IN THE MODEL
!!

CONST TOC_CUTOFF 6.5;
CONST CLAY_CUTOFF 0.35;
CONST RQC_SILICEOUS 3.0;
CONST RQC_MIXED_LS 0.3;
CONST NULL;

!!
!!
!!
!! BEGIN MODEL EXECUTION SECTION
!!
!!
!!

!!
!! INIT OUTPUTS TO NULL
!!

ORGANICSILICEOUS = NULL;
ORGANICMIXED = NULL;
ORGANICMUDSTONE = NULL;
GRAYSILICEOUS = NULL;
GRAYMIXED = NULL;
GRAYMUDSTONE = NULL;
CARBONATE = NULL;
SHALE_LITHOFACIES = NULL;

```

RQC                = NULL;

IF (CARB .NE. NULL) THEN BEGIN;    ! CHECKS FOR NULL VALUES IN CARBONATE MINERALOGY

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
! CALCULATE RATIO OF QUARTZ TO CARBONATE (RQC)
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
IF (CARB .EQ. 0) THEN BEGIN;
    RQC = 3.0;
END;
ELSE BEGIN;
    RQC= ((QUARTZ)/(CARB));
END;
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
! LITHOFACIES LOGIC STATEMENTS
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
! TEST FOR ORGANIC OR GRAY

IF (TOC .GE. TOC_CUTOFF) THEN GOTO ORGANIC;
ELSE GOTO GRAY;

ORGANIC:
    IF (CLAY .GE. CLAY_CUTOFF) THEN BEGIN;
        SHALE_LITHOFACIES = 5;
        GOTO DONE;
    END;
    ELSE GOTO OSILICIEOUSTEST;

OSILICIEOUSTEST:
    IF (RQC .GE. RQC_SILICEOUS) THEN BEGIN;
        SHALE_LITHOFACIES = 7;
        GOTO DONE;
    END;
    ELSE BEGIN;
        SHALE_LITHOFACIES = 6;
        GOTO DONE;
    END;

GRAY:
    IF (CLAY .GE. CLAY_CUTOFF) THEN BEGIN;
        SHALE_LITHOFACIES = 2;
        GOTO DONE;
    END;
    ELSE GOTO GRSILICIEOUSTEST;

GRSILICIEOUSTEST:
    IF (RQC .GE. RQC_SILICEOUS) THEN BEGIN;
        SHALE_LITHOFACIES = 4;
        GOTO DONE;
    END;
    ELSE GOTO MIXEDTEST;

MIXEDTEST:
    IF (RQC .GE. RQC_MIXED_LS) THEN BEGIN;
        SHALE_LITHOFACIES = 3;
        GOTO DONE;

```


CRMs run as unknowns								
Sample	SiO2	TiO2	Al2O3	FeO*	MnO	MgO	CaO	Na2O
AGV-2	58.97	1.044	16.82	6.12	0.098	1.77	5.13	4.16
BCR-2	54.07	2.280	13.49	12.41	0.197	3.63	7.17	3.18
BHVO-2	49.45	2.757	13.56	11.09	0.168	7.25	11.34	2.23
G-2	68.68	0.492	15.14	2.44	0.033	0.76	1.91	4.08
SCo-1	62.50	0.605	13.43	4.69	0.051	2.63	2.57	0.93
STM-1	59.10	0.138	18.40	4.76	0.217	0.12	1.18	8.81
W-2	52.55	1.071	15.40	9.53	0.167	6.40	10.88	2.23
Sample	K2O	P2O5	Cl >=	SO3 >=	Br >=	As >=	Ni	Cr
AGV-2	2.90	0.474	0.01	0.00	1	0	19	14
BCR-2	1.79	0.360	0.02	0.05	1	3	12	17
BHVO-2	0.52	0.271	0.04	0.01	1	1	119	289
G-2	4.47	0.133	0.02	0.02	0	4	1	7
SCo-1	2.79	0.207	0.03	0.18	0	14	29	73
STM-1	4.24	0.159	0.05	0.00	2	4	5	4
W-2	0.63	0.125	0.02	0.03	0	0	66	81
Sample	V	Sc	Cu	Zn	Ga	Ba	Rb	Cs
AGV-2	115	14	49	87	20	1115	67	0
BCR-2	414	33	17	131	21	679	46	2
BHVO-2	318	30	129	102	22	125	10	0
G-2	34	4	11	84	23	1843	167	0
SCo-1	137	12	29	107	16	588	116	8
STM-1	3	1	6	245	35	572	113	3
W-2	266	37	104	76	17	168	21	2
Sample	Sr	Y	Zr	Hf	Nb	Mo	La	Ce
AGV-2	665	21	232	6	13	0	39	67
BCR-2	344	37	190	6	14	257	20	52
BHVO-2	398	27	172	3	18	3	10	38
G-2	472	10	339	8	12	1	88	167
SCo-1	172	23	178	5	12	0	28	60
STM-1	710	46	1333	32	258	8	151	257
W-2	197	23	97	2	8	0	8	29
Sample	Nd	Th	U	Pb >=	900 C LOI	sumMaj	sumAll	
AGV-2	27	5	2	13	1.33	98.81	99.07	
BCR-2	27	6	2	11	1.09	99.65	99.95	
BHVO-2	23	0	0	2	0.58	99.22	99.44	
G-2	52	25	1	30	0.53	98.66	99.04	
SCo-1	29	9	2	31	8.34	98.75	99.13	
STM-1	78	31	7	18	1.48	98.61	99.04	
W-2	17	4	3	8	0.59	99.58	99.75	

Table D-2: Standards measured as unknowns Hamilton suite

CRMs values								
Sample#	SiO2#	TiO2#	Al2O3#	FeO*#	MnO#	MgO#	CaO#	Na2O#
AGV-2#	59.14	1.051	17.03	6.10	0.100	1.80	5.15	4.20
BCR-2#	54.00	2.265	13.48	12.39	0.197	3.60	7.11	3.12
BHVO-2#	49.60	2.731	13.44	11.15	0.169	7.26	11.40	2.22
G-2#	68.74	0.480	15.31	2.38	0.031	0.75	1.91	4.05
SCo-1	62.78	0.628	13.67	4.62	0.053	2.72	2.62	0.90
STM-1	59.65	0.135	18.39	4.70	0.220	0.10	1.09	8.94
W-2#	52.57	1.064	15.38	9.72	0.166	6.43	10.91	2.20
Sample#	K2O#	P2O5#	Cl >=#	SO3 >=#	Br >=#	As >=#	Ni#	Cr#
AGV-2#	2.90	0.483	0.01	0.01		1	19	16
BCR-2#	1.77	0.359	0.01	0.04		1	13	16
BHVO-2#	0.51	0.269	0.02	0.04	0	1	120	287
G-2#	4.50	0.129	0.01	0.03		0	4	8
SCo-1	2.77	0.206	0.01	0.16	1	12	27	68
STM-1	4.28	0.158	0.05	0.01	2	5	3	4
W-2#	0.62	0.136	0.02	0.02		1	72	92
Sample#	V#	Sc#	Cu#	Zn#	Ga#	Ba#	Rb#	Cs#
AGV-2#	119	13	52	87	20	1134	68	1
BCR-2#	418	34	20	130	22	684	46	1
BHVO-2#	318	32	129	104	21	131	9	0
G-2#	35	4	11	84	23	1860	169	1
SCo-1	131	12	29	100	15	570	110	8
STM-1	9	1	5	235	36	560	118	2
W-2#	266	36	106	78	18	173	20	1
Sample#	Sr#	Y#	Zr#	Hf#	Nb#	Mo#	La#	Ce#
AGV-2#	660	19	233	5	14	2	38	69
BCR-2#	337	36	187	5	12	251	25	53
BHVO-2#	394	26	171	5	18	4	15	38
G-2#	475	10	319	8	12	0	88	161
SCo-1	170	26	169	5	11	1	29	57
STM-1	700	46	1308	29	249	5	151	259
W-2#	195	22	93	2	8	1	11	23
Sample#	Nd#	Th#	U#	Pb >=	900 C LOI#	sumMaj#	sumAll#	
AGV-2#	31	6	2		1.33	99.29	99.57	
BCR-2#	28	6	2		1.09	99.39	99.68	
BHVO-2#	24	1	0		0.58	99.33	99.57	
G-2#	54	25	2		0.53	98.81	99.18	
SCo-1	26	9	3		8.34	99.30	99.63	
STM-1	79	29	9		1.48	99.14	99.58	
W-2#	13	2	1		0.59	99.79	99.95	

Table D-3: Actual values of standards, # indicates data derived from Jochum et al 2015 Geostandards and Geoanalytical Research 40, 333-350

Table D-4, Hamilton XRF Suite:

Sample	Time/Date	SiO2 (%)	Si (%)	TiO2 (%)	Ti (%)	Al2O3 (%)	Al (%)	FeO* (%)	Fe (%)	MnO (%)
7447.20	17:45 6-3-17	58.54	27.37	0.69	0.41	16.52	8.74	5.86	4.56	0.02
7448.35	20:21 6-3-17	57.98	27.10	0.72	0.43	17.18	9.09	5.71	4.44	0.02
7449.25	22:57 6-3-17	57.34	26.80	0.74	0.44	17.50	9.26	6.66	5.18	0.02
7450.20	1:33 7-3-17	59.40	27.77	0.71	0.42	16.73	8.85	5.84	4.54	0.02
7452.22	6:45 7-3-17	60.10	28.09	0.67	0.40	15.72	8.32	6.03	4.69	0.02
7455.00	11:35 7-3-17	40.83	19.08	0.55	0.33	12.41	6.57	6.82	5.30	0.07
7456.16	14:11 7-3-17	53.01	24.78	0.73	0.44	18.86	9.98	6.03	4.69	0.02
7457.15	16:47 7-3-17	55.14	25.78	0.70	0.42	17.03	9.01	6.18	4.81	0.02
7457.37	4:09 7-3-17	59.77	27.94	0.65	0.39	15.68	8.30	6.89	5.36	0.02
7459.13	20:43 15-12-16	53.09	24.81	0.71	0.42	18.71	9.90	7.05	5.48	0.02
7460.20	22:53 15-12-16	53.53	25.02	0.71	0.42	19.12	10.12	5.97	4.64	0.02
7463.10	19:23 7-3-17	55.76	26.06	0.76	0.46	19.12	10.12	5.33	4.15	0.02
7464.05	21:59 7-3-17	53.12	24.83	0.70	0.42	18.50	9.79	5.52	4.29	0.02
7465.30	0:35 8-3-17	53.21	24.87	0.67	0.40	17.88	9.46	6.81	5.29	0.02
7467.30	3:11 8-3-17	39.31	18.37	0.49	0.29	13.40	7.09	5.75	4.47	0.06
7470.05	1:03 16-12-16	54.87	25.65	0.68	0.41	18.99	10.05	5.46	4.25	0.02
7471.13	5:47 8-3-17	51.90	24.26	0.63	0.38	17.11	9.06	5.73	4.45	0.02
7472.09	8:23 8-3-17	51.59	24.12	0.68	0.41	18.17	9.62	5.62	4.37	0.02
7475.12	10:59 8-3-17	49.81	23.28	0.67	0.40	17.74	9.39	5.99	4.66	0.02
7476.15	13:35 8-3-17	50.75	23.72	0.67	0.40	18.13	9.59	6.25	4.86	0.02
7477.07	16:11 8-3-17	50.69	23.69	0.70	0.42	17.78	9.41	7.90	6.14	0.02
7479.05	18:47 8-3-17	53.43	24.98	0.70	0.42	18.07	9.57	5.15	4.01	0.02
7480.05	21:23 8-3-17	56.48	26.40	0.78	0.47	18.40	9.74	4.95	3.85	0.02
7482.12	3:13 16-12-16	35.33	16.51	0.40	0.24	9.95	5.27	5.44	4.23	0.06
7484.11	23:59 8-3-17	57.21	26.74	0.71	0.43	17.63	9.33	4.62	3.59	0.02
7485.03	2:35 9-3-17	56.92	26.61	0.72	0.43	17.56	9.29	4.49	3.49	0.02
7485.60	5:10 9-3-17	57.79	27.01	0.72	0.43	17.63	9.33	5.43	4.22	0.02
7488.15	7:46 9-3-17	57.15	26.71	0.74	0.44	17.16	9.08	5.01	3.89	0.02
7489.06	10:22 9-3-17	56.22	26.28	0.74	0.44	17.52	9.27	5.57	4.33	0.02
7491.22	12:58 9-3-17	55.26	25.83	0.76	0.45	17.67	9.35	5.45	4.24	0.02
7492.06	5:22 16-12-16	52.84	24.70	0.66	0.40	17.08	9.04	5.87	4.56	0.02
7494.20	15:34 9-3-17	55.85	26.11	0.70	0.42	17.20	9.10	4.83	3.76	0.02
7497.39	18:10 9-3-17	48.22	22.54	0.59	0.36	14.31	7.57	9.00	7.00	0.03

Sample	Time/Date	SiO2 (%)	Si (%)	TiO2 (%)	Ti (%)	Al2O3 (%)	Al (%)	FeO* (%)	Fe (%)	MnO (%)
7500.60	20:46 9-3-17	53.90	25.19	0.52	0.31	12.07	6.39	5.55	4.32	0.03
7503.04	23:22 9-3-17	60.00	28.05	0.47	0.28	10.90	5.77	4.74	3.68	0.02
7503.98	7:32 16-12-16	60.20	28.14	0.47	0.28	10.79	5.71	4.49	3.49	0.02
7505.93	1:58 10-3-17	59.08	27.62	0.57	0.34	12.59	6.66	7.41	5.76	0.01
7506.99	4:34 10-3-17	59.95	28.02	0.54	0.33	12.32	6.52	4.77	3.71	0.01
7509.01	7:10 10-3-17	51.75	24.19	0.41	0.25	9.30	4.92	6.97	5.41	0.03
7512.01	9:42 16-12-16	58.44	27.32	0.48	0.29	11.27	5.96	5.60	4.35	0.01
7513.08	9:46 10-3-17	53.85	25.17	0.52	0.31	11.53	6.10	4.94	3.84	0.02
7514.10	12:22 10-3-17	56.98	26.63	0.55	0.33	11.84	6.27	4.95	3.85	0.01
7515.80	14:58 10-3-17	54.51	25.48	0.64	0.39	13.59	7.19	5.07	3.94	0.02
7517.23	22:09 11-3-17	53.86	25.18	0.60	0.36	13.02	6.89	4.05	3.15	0.02
7519.05	11:52 16-12-16	46.23	21.61	0.57	0.34	12.01	6.36	7.40	5.75	0.02
7520.13	20:10 10-3-17	51.52	24.08	0.69	0.41	13.66	7.23	4.32	3.36	0.02
7522.05	0:45 12-3-17	53.18	24.86	0.76	0.46	14.88	7.88	4.43	3.44	0.02
7523.03	1:22 11-3-17	53.02	24.78	0.77	0.46	15.93	8.43	2.85	2.21	0.02
7523.89	14:49 13-3-17	6.72	3.14	0.06	0.03	1.13	0.60	2.30	1.79	0.03
7524.90	4:21 12-3-17	49.83	23.29	0.73	0.44	13.75	7.28	2.46	1.91	0.03
7528.01	14:02 16-12-16	54.91	25.67	0.63	0.38	13.32	7.05	4.45	3.46	0.02
7530.15	6:34 11-3-17	55.29	25.84	0.58	0.35	12.58	6.66	6.42	4.99	0.01
7533.02	9:09 11-3-17	54.36	25.41	0.58	0.35	13.00	6.88	4.62	3.59	0.02
7534.04	11:45 11-3-17	54.88	25.65	0.60	0.36	13.12	6.95	4.45	3.46	0.02
7534.89	14:21 11-3-17	59.84	27.97	0.60	0.36	13.14	6.96	4.26	3.31	0.01
7538.15	16:12 16-12-16	53.01	24.78	0.56	0.33	13.62	7.21	5.96	4.63	0.01
7542.93	16:57 11-3-17	41.87	19.57	0.29	0.18	6.65	3.52	5.24	4.07	0.02
7544.37	19:33 11-3-17	32.00	14.96	0.23	0.14	6.02	3.18	5.52	4.29	0.02
7544.85	6:57 12-3-17	36.60	17.11	0.29	0.17	6.75	3.57	8.42	6.55	0.02
7545.77	9:33 12-3-17	49.49	23.13	0.38	0.23	8.96	4.74	7.41	5.76	0.01
7554.33	12:09 12-3-17	19.53	9.13	0.01	0.01	0.44	0.23	0.30	0.24	0.01
7556.15	14:45 12-3-17	51.79	24.21	0.49	0.29	10.12	5.36	4.06	3.15	0.01

Sample	Mn (%)	MgO (%)	Mg (%)	CaO (%)	Ca (%)	Na2O (%)	Na (%)	K2O (%)	K (%)	P2O5 (%)	P (%)	SO3 >= (%)
7447.20	0.02	1.40	0.84	0.86	0.62	0.67	0.49	3.97	3.30	0.08	0.07	0.45
7448.35	0.01	1.38	0.83	0.42	0.30	0.63	0.28	4.13	3.43	0.07	0.05	0.27
7449.25	0.01	1.41	0.85	0.36	0.26	0.71	0.29	4.20	3.49	0.06	0.05	0.34
7450.20	0.02	1.34	0.81	0.43	0.31	0.70	0.33	4.02	3.34	0.07	0.06	0.31
7452.22	0.01	1.28	0.77	0.30	0.21	0.69	0.41	3.78	3.14	0.07	0.06	0.27
7455.00	0.06	2.23	1.34	16.68	11.92	0.35	0.23	2.43	2.01	0.06	0.05	1.77
7456.16	0.01	1.40	0.85	0.49	0.35	0.72	0.00	4.54	3.77	0.07	0.06	0.36
7457.15	0.01	1.37	0.82	0.55	0.39	0.70	0.00	4.12	3.42	0.07	0.06	0.30
7457.37	0.02	1.36	0.82	0.98	0.70	0.68	0.00	3.84	3.19	0.09	0.08	0.56
7459.13	0.01	1.49	0.90	0.52	0.37	0.69	0.00	4.44	3.68	0.07	0.06	0.14
7460.20	0.01	1.52	0.92	0.33	0.24	0.68	0.00	4.56	3.79	0.08	0.06	0.42
7463.10	0.01	1.47	0.89	0.43	0.31	0.72	0.00	4.60	3.82	0.08	0.07	0.33
7464.05	0.02	1.45	0.88	1.49	1.07	0.68	0.00	4.49	3.73	0.07	0.06	0.76
7465.30	0.01	1.40	0.84	0.65	0.46	0.73	0.00	4.31	3.57	0.07	0.06	0.44
7467.30	0.05	1.48	0.89	16.98	12.14	0.47	0.00	3.16	2.62	0.07	0.06	3.10
7470.05	0.01	1.40	0.84	0.48	0.35	0.72	0.00	4.57	3.80	0.07	0.06	0.22
7471.13	0.02	1.36	0.82	1.97	1.41	0.66	0.00	4.22	3.50	0.07	0.06	1.25
7472.09	0.01	1.38	0.83	0.42	0.30	0.69	0.00	4.47	3.71	0.07	0.06	0.50
7475.12	0.01	1.34	0.81	1.33	0.95	0.68	0.00	4.32	3.59	0.30	0.25	1.07
7476.15	0.02	1.36	0.82	2.64	1.89	0.67	0.00	4.48	3.72	0.06	0.05	1.50
7477.07	0.01	1.33	0.80	2.21	1.58	0.63	0.00	4.36	3.62	0.07	0.06	1.28
7479.05	0.01	1.26	0.76	0.73	0.52	0.71	0.00	4.38	3.64	0.06	0.05	0.43
7480.05	0.01	1.30	0.78	0.62	0.44	0.74	0.00	4.47	3.71	0.06	0.05	0.35
7482.12	0.04	1.80	1.08	19.15	13.68	0.43	0.00	2.34	1.95	0.07	0.06	0.94
7484.11	0.01	1.36	0.82	0.45	0.32	0.73	0.00	4.36	3.62	0.06	0.05	0.25
7485.03	0.01	1.42	0.86	0.55	0.39	0.74	0.00	4.35	3.61	0.07	0.06	0.30
7485.60	0.01	1.38	0.83	0.49	0.35	0.73	0.00	4.37	3.63	0.06	0.05	0.22
7488.15	0.02	1.58	0.96	1.30	0.93	0.70	0.00	4.32	3.58	0.06	0.05	0.83
7489.06	0.02	1.55	0.94	1.00	0.72	0.71	0.00	4.33	3.60	0.05	0.05	0.51
7491.22	0.02	1.45	0.88	0.98	0.70	0.75	0.00	4.37	3.62	0.06	0.05	0.37
7492.06	0.02	1.51	0.91	1.17	0.84	0.72	0.00	4.16	3.45	0.06	0.05	0.35
7494.20	0.01	1.51	0.91	1.43	1.02	0.72	0.00	4.29	3.56	0.06	0.05	0.53
7497.39	0.02	1.22	0.73	5.09	3.64	0.64	0.00	3.62	3.00	0.08	0.07	2.67

Sample	Mn (%)	MgO (%)	Mg (%)	CaO (%)	Ca (%)	Na2O (%)	Na (%)	K2O (%)	K (%)	P2O5 (%)	P (%)	SO3 >= (%)
7500.60	0.02	1.15	0.69	4.59	3.28	0.66	0.00	3.11	2.58	0.06	0.05	2.84
7503.04	0.01	1.07	0.64	3.08	2.20	0.55	0.00	2.80	2.32	0.08	0.06	1.20
7503.98	0.01	1.19	0.72	3.01	2.15	0.57	0.00	2.71	2.25	0.09	0.07	0.27
7505.93	0.01	1.05	0.63	1.00	0.71	0.64	0.00	3.22	2.67	0.07	0.06	0.45
7506.99	0.01	1.06	0.64	1.51	1.08	0.61	0.00	3.18	2.64	0.08	0.06	0.83
7509.01	0.02	1.12	0.68	11.04	7.89	0.50	0.00	2.46	2.04	0.18	0.15	4.70
7512.01	0.01	1.02	0.62	1.57	1.12	0.61	0.00	2.81	2.33	0.11	0.09	0.18
7513.08	0.01	1.41	0.85	3.20	2.29	0.56	0.00	3.01	2.50	0.09	0.07	1.48
7514.10	0.01	1.11	0.67	2.96	2.11	0.55	0.00	3.08	2.56	0.10	0.08	0.95
7515.80	0.01	1.20	0.72	4.32	3.09	0.63	0.00	3.55	2.95	0.11	0.09	2.19
7517.23	0.01	1.05	0.64	7.12	5.09	0.70	0.00	3.42	2.84	0.08	0.07	3.11
7519.05	0.02	1.61	0.97	6.21	4.44	0.62	0.00	3.06	2.54	0.08	0.06	0.64
7520.13	0.02	2.31	1.39	5.01	3.58	0.71	0.00	3.60	2.99	0.10	0.08	2.25
7522.05	0.01	1.20	0.72	3.07	2.20	0.81	0.00	3.87	3.21	0.10	0.08	1.13
7523.03	0.02	1.16	0.70	6.22	4.44	0.73	0.00	4.23	3.51	0.09	0.07	1.96
7523.89	0.02	0.60	0.36	43.41	31.02	0.11	0.00	0.20	0.17	0.09	0.08	0.11
7524.90	0.02	1.50	0.91	10.34	7.39	0.71	0.00	3.63	3.01	0.13	0.11	2.02
7528.01	0.01	1.14	0.69	5.12	3.66	0.65	0.00	3.53	2.93	0.08	0.06	0.34
7530.15	0.01	0.95	0.57	2.26	1.62	0.69	0.00	3.42	2.84	0.07	0.06	1.01
7533.02	0.01	1.03	0.62	6.88	4.92	0.67	0.00	3.56	2.95	0.07	0.05	2.00
7534.04	0.01	1.07	0.65	5.26	3.76	0.71	0.00	3.55	2.95	0.07	0.05	1.08
7534.89	0.01	1.02	0.61	1.88	1.34	0.70	0.00	3.55	2.94	0.10	0.08	0.60
7538.15	0.01	1.26	0.76	1.65	1.18	0.72	0.00	3.68	3.05	0.07	0.06	0.54
7542.93	0.01	0.72	0.44	16.44	11.75	0.51	0.00	1.80	1.49	0.08	0.06	2.06
7544.37	0.02	0.82	0.49	3.84	2.75	0.59	0.00	1.60	1.33	0.07	0.05	1.85
7544.85	0.01	0.73	0.44	3.27	2.34	0.62	0.00	1.80	1.50	0.08	0.07	1.60
7545.77	0.01	1.41	0.85	3.82	2.73	0.50	0.00	2.53	2.10	0.08	0.06	1.04
7554.33	0.01	0.37	0.22	35.48	25.36	0.03	0.00	0.06	0.05	0.31	0.26	0.17
7556.15	0.01	1.65	1.00	8.45	6.04	0.60	0.00	2.96	2.46	0.10	0.09	2.34

Sample	S >= (%)	Cl >= (%)	Br >= (ppm)	As >= (ppm)	Ni (ppm)	Cr (ppm)	V (ppm)	Sc (ppm)
7447.20	0.18	0.00	1	22	105	104	398	16
7448.35	0.11	0.00	2	24	124	105	441	18
7449.25	0.14	0.00	0	31	135	102	385	15
7450.20	0.12	0.00	1	21	96	100	361	17
7452.22	0.11	0.00	0	23	98	87	315	17
7455.00	0.71	0.01	3	6	28	54	111	15
7456.16	0.14	0.00	0	23	170	94	343	21
7457.15	0.12	0.00	1	24	179	96	436	19
7457.37	0.22	0.00	1	24	135	89	322	18
7459.13	0.05	0.01	1	42	165	119	444	19
7460.20	0.17	0.01	2	32	165	103	421	20
7463.10	0.13	0.00	4	16	118	92	277	19
7464.05	0.30	0.00	0	14	144	90	272	20
7465.30	0.18	0.00	2	25	144	96	286	15
7467.30	1.24	0.01	2	21	104	62	189	15
7470.05	0.09	0.02	1	20	153	100	365	18
7471.13	0.50	0.00	0	27	180	89	389	18
7472.09	0.20	0.00	1	21	198	94	499	19
7475.12	0.43	0.00	0	28	184	85	346	17
7476.15	0.60	0.00	2	25	163	88	301	22
7477.07	0.51	0.00	0	42	155	88	329	23
7479.05	0.17	0.00	3	14	160	100	347	20
7480.05	0.14	0.00	2	17	118	98	285	19
7482.12	0.38	0.07	0	19	52	52	94	7
7484.11	0.10	0.00	2	11	142	85	332	19
7485.03	0.12	0.00	1	16	121	89	291	19
7485.60	0.09	0.00	0	14	113	85	254	18
7488.15	0.33	0.00	1	13	85	84	189	19
7489.06	0.20	0.00	1	18	106	92	217	18
7491.22	0.15	0.00	0	19	120	93	250	20
7492.06	0.14	0.03	0	23	152	89	220	19
7494.20	0.21	0.00	3	20	124	94	282	19
7497.39	1.07	0.00	1	53	171	84	291	20

Sample	S >= (%)	Cl >= (%)	Br >= (ppm)	As >= (ppm)	Ni (ppm)	Cr (ppm)	V (ppm)	Sc (ppm)
7500.60	1.14	0.00	0	20	193	79	448	17
7503.04	0.48	0.00	0	23	181	81	477	16
7503.98	0.11	0.04	4	22	177	73	461	14
7505.93	0.18	0.00	4	31	154	80	412	15
7506.99	0.33	0.00	3	23	166	78	459	14
7509.01	1.88	0.00	1	35	175	56	261	17
7512.01	0.07	0.03	4	18	77	81	507	15
7513.08	0.59	0.00	1	29	224	81	622	19
7514.10	0.38	0.00	3	32	188	81	529	17
7515.80	0.88	0.00	2	28	207	85	472	18
7517.23	1.24	0.00	2	28	196	91	661	20
7519.05	0.26	0.06	1	35	189	99	665	15
7520.13	0.90	0.00	2	26	190	130	732	23
7522.05	0.45	0.00	1	21	199	123	656	21
7523.03	0.78	0.00	3	14	120	121	404	22
7523.89	0.04	0.00	0	2	46	0	17	0
7524.90	0.81	0.00	0	8	84	107	224	19
7528.01	0.14	0.06	3	22	160	93	563	16
7530.15	0.40	0.00	0	24	179	72	510	14
7533.02	0.80	0.00	3	25	188	88	571	18
7534.04	0.43	0.00	2	16	166	78	491	17
7534.89	0.24	0.00	1	15	169	90	492	17
7538.15	0.22	0.04	3	41	323	108	1106	17
7542.93	0.83	0.00	1	26	251	61	713	14
7544.37	0.74	0.00	0	25	243	23	889	8
7544.85	0.64	0.00	0	58	220	40	777	7
7545.77	0.42	0.00	1	41	466	102	1274	13
7554.33	0.07	0.00	1	4	21	0	52	0
7556.15	0.94	0.00	1	32	304	89	1083	14

Sample	Cu (ppm)	Zn (ppm)	Ga (ppm)	Ba (ppm)	Rb (ppm)	Cs (ppm)	Sr (ppm)	Y (ppm)
7447.20	93	41	21	1496	187	10	124	36
7448.35	97	36	22	1172	197	17	130	31
7449.25	105	41	23	1382	202	11	124	32
7450.20	97	33	22	1278	193	16	119	31
7452.22	86	35	22	1185	177	10	111	27
7455.00	22	29	17	907	105	6	266	76
7456.16	110	348	26	1676	219	16	134	29
7457.15	125	224	23	2138	200	16	135	32
7457.37	113	36	20	1097	181	11	124	32
7459.13	132	39	25	1722	222	18	128	33.3
7460.20	115	48	27	1588	228	16	136	36.6
7463.10	92	207	27	3292	225	16	161	38
7464.05	144	71	25	1656	217	14	151	35
7465.30	165	52	24	4270	206	15	161	30
7467.30	124	39	20	1310	145	6	240	123
7470.05	86	64	27	1520	229	15	127	25.9
7471.13	134	44	23	7634	200	13	229	32
7472.09	142	350	26	8395	217	18	221	30
7475.12	151	139	26	19000	204	12	386	63
7476.15	157	447	24	1599	215	15	140	35
7477.07	180	46	25	1362	208	14	162	33
7479.05	130	893	25	1497	210	16	106	23
7480.05	98	62	25	1988	214	17	121	26
7482.12	83	20	13	11800	103	3	420	62.4
7484.11	105	37	25	1508	206	13	118	28
7485.03	91	2965	24	1502	202	15	117	31
7485.60	79	75	22	1587	207	13	118	29
7488.15	79	43	24	1560	199	13	118	31
7489.06	68	37	22	1430	198	13	122	32
7491.22	83	34	24	1669	198	12	130	35
7492.06	99	102	26	41600	196	11	605	34.9
7494.20	103	71	24	1379	196	14	126	35
7497.39	140	62	20	10000	162	12	281	43

Sample	Cu (ppm)	Zn (ppm)	Ga (ppm)	Ba (ppm)	Rb (ppm)	Cs (ppm)	Sr (ppm)	Y (ppm)
7500.60	143	446	16	25700	136	11	435	38
7503.04	137	270	16	909	126	11	132	39
7503.98	134	877	16	1110	123	10	125	38.1
7505.93	134	55	17	1108	146	14	112	39
7506.99	139	31	18	1025	143	12	118	40
7509.01	148	50	14	1000	107	7	192	108
7512.01	51	31	16	1170	127	7	122	45.0
7513.08	142	436	16	1069	132	10	137	48
7514.10	147	35	17	995	135	9	146	50
7515.80	136	27	20	1048	155	10	171	33
7517.23	154	183	19	1085	139	12	257	37
7519.05	153	26	22	59000	131	7	751	28.5
7520.13	187	696	20	1248	151	12	146	31
7522.05	197	135	20	1590	159	11	147	31
7523.03	130	130	21	1760	171	10	211	37
7523.89	35	29	nd	70200	9	nd	1064	21
7524.90	113	378	19	1568	141	11	282	46
7528.01	88	22	18	1098	151	6	164	37.2
7530.15	103	25	19	26800	143	7	464	25
7533.02	107	247	19	1149	148	10	207	38
7534.04	99	146	19	1531	149	11	182	33
7534.89	102	243	18	1022	148	12	128	32
7538.15	161	1435	20	1253	156	13	124	38.0
7542.93	151	1129	10	804	68	5	332	84
7544.37	166	121	nd	172000	58	nd	2224	29
7544.85	173	57	nd	128000	68	nd	1676	37
7545.77	231	986	16	1193	99	5	158	46
7554.33	6	53	0	102	3	0	261	54
7556.15	224	257	16	930	116	9	248	31

Sample	Zr (ppm)	Hf (ppm)	Nb (ppm)	Mo (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)	U (ppm)	Pb >= (ppm)
7447.20	119	2	11	32	77	36	11	8	31
7448.35	122	5	11	56	75	31	12	9	29
7449.25	124	4	12	53	71	32	12	8	33
7450.20	120	3	12	25	71	36	11	6	32
7452.22	114	4	10	26	71	27	13	7	33
7455.00	106	3	11	3	94	47	7	4	7
7456.16	127	4	13	119	65	30	12	15	26
7457.15	116	4	9	89	69	30	13	13	36
7457.37	109	4	11	53	68	32	11	7	33
7459.13	124	4.4	11.0	72	72	36	12	17	24
7460.20	124	4.3	11.6	107	78	37	11	19	26
7463.10	124	5	12	95	76	41	13	16	30
7464.05	119	3	11	90	83	36	13	16	32
7465.30	118	3	12	99	69	30	11	20	33
7467.30	88	2	9	94	97	57	9	23	19
7470.05	116	3.4	10.7	110	64	31	11	21	23
7471.13	109	1	9	155	71	34	12	17	31
7472.09	115	3	11	143	79	34	13	24	31
7475.12	111	3	11	129	92	57	11	30	33
7476.15	111	2	10	111	74	40	11	22	32
7477.07	115	4	12	99	88	36	13	19	35
7479.05	111	4	11	121	68	30	12	15	29
7480.05	122	5	12	59	66	26	11	11	27
7482.12	74	3.2	7.0	12	52	29	5	7	18
7484.11	117	4	11	114	67	29	14	15	27
7485.03	114	4	10	105	68	33	10	15	26
7485.60	116	4	11	97	68	34	13	16	28
7488.15	123	3	11	91	72	36	12	10	23
7489.06	118	4	10	94	76	31	13	11	27
7491.22	131	5	12	112	78	34	10	14	24
7492.06	116	2.8	12.4	107	64	29	11	16	19
7494.20	123	5	12	116	65	30	11	14	27
7497.39	110	4	11	129	68	40	9	28	37

Sample	Zr (ppm)	Hf (ppm)	Nb (ppm)	Mo (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)	U (ppm)	Pb >= (ppm)
7500.60	105	4	9	153	73	29	9	24	33
7503.04	97	2	8	146	55	33	9	24	26
7503.98	94	3.5	7.5	137	52	31	7	23	7
7505.93	107	3	9	133	65	34	9	23	34
7506.99	107	3	9	181	62	35	10	21	32
7509.01	90	3	7	177	79	61	6	47	36
7512.01	104	3.7	9.2	132	59	36	9	47	5
7513.08	108	3	8	266	56	36	9	46	26
7514.10	107	3	9	179	64	40	10	31	34
7515.80	123	4	11	181	57	30	11	25	33
7517.23	120	3	10	148	63	31	8	14	30
7519.05	121	2.3	11.8	114	45	21	5	15	20
7520.13	159	6	12	129	55	29	9	17	29
7522.05	168	4	12	97	74	34	11	18	36
7523.03	153	4	13	21	83	40	11	10	18
7523.89	16	1	5	10	nd	nd	0	1	nd
7524.90	158	5	14	6	81	40	12	5	11
7528.01	114	3.4	9.4	75	63	31	9	16	12
7530.15	95	3	10	91	65	21	8	18	37
7533.02	103	3	8	126	61	27	9	16	27
7534.04	100	3	10	106	57	28	8	18	24
7534.89	102	3	9	120	54	28	10	28	28
7538.15	110	3.3	8.8	225	52	31	9	60	17
7542.93	70	2	7	130	64	43	4	44	26
7544.37	40	1	11	101	nd	nd	8	28	nd
7544.85	55	3	9	80	nd	nd	6	33	nd
7545.77	93	2	5	317	46	32	7	71	41
7554.33	1	0	1	24	32	26	1	7	2
7556.15	122	3	8	308	29	16	7	32	34

Table D-5, MSCL Mining-plus Suite:

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7517.07	1285030	48.00	4304.74	1226.93	260.47	233.45	37595.11	145.45	251.59	269.78	1515.15	32.00
7517.13	1281743	48.00	4165.22	1233.02	157.19	207.37	29043.50	116.24	212.00	188.75	420.58	30.00
7517.20	1445098	47.00	3854.24	1066.77	263.02	199.13	28824.21	109.37	216.01	195.95	242.56	26.57
7517.26	1339818	48.00	3834.02	1130.28	230.30	203.99	31031.38	98.38	209.44	194.02	131.82	29.17
7517.33	1123231	50.00	4213.73	1055.57	254.53	192.50	30253.96	98.17	206.38	207.03	48.16	26.01
7517.39	2134367	38.00	1114.44	444.85	0.00	445.50	7582.51	0.00	33.39	45.85	0.00	0.00
7517.46	2200254	37.00	6073.60	3858.89	0.00	692.95	4140.97	0.00	0.00	0.00	0.00	0.00
7517.52	2133698	38.00	1582.34	861.32	0.00	404.60	4044.26	0.00	27.58	0.00	0.00	0.00
7517.59	2055572	39.00	4101.69	2214.45	0.00	662.37	9855.62	0.00	43.13	49.24	0.00	0.00
7517.66	1721921	43.00	12847.06	7674.25	0.00	871.03	11362.99	0.00	60.22	42.66	0.00	0.00
7517.72	2245382	36.00	42508.37	26101.65	0.00	2043.41	17533.79	0.00	55.38	63.07	0.00	0.00
7517.79	2232828	36.00	59483.02	37714.52	0.00	2590.21	12049.97	0.00	61.31	62.30	0.00	0.00
7517.85	2267388	35.00	1973.78	783.90	0.00	515.51	4771.54	0.00	40.52	41.55	0.00	0.00
7517.92	1340565	48.00	2368.88	832.10	194.61	567.68	10906.93	0.00	73.91	0.00	0.00	0.00
7517.98	1970704	40.00	1034.49	459.27	121.31	477.37	4286.33	0.00	30.54	0.00	0.00	0.00
7518.05	2057128	39.00	1966.08	357.15	161.49	437.39	3243.54	0.00	31.98	0.00	0.00	0.00
7518.12	2106156	38.00	788.29	215.40	174.88	408.06	4393.79	0.00	29.28	0.00	0.00	0.00
7518.18	2049743	39.00	747.99	280.97	0.00	509.23	5044.78	0.00	30.51	0.00	0.00	0.00
7518.25	1668617	44.00	675.51	339.77	167.50	497.55	5433.41	0.00	44.20	0.00	0.00	0.00
7518.31	1644446	44.00	808.00	333.26	0.00	567.06	4828.75	0.00	36.14	0.00	0.00	0.00
7518.38	1626289	44.00	675.76	304.30	0.00	625.71	5025.15	0.00	32.85	0.00	0.00	0.00
7518.44	1604762	45.00	955.15	311.95	0.00	683.44	6206.01	0.00	33.67	0.00	0.00	0.00
7518.51	1467920	46.00	1119.79	435.52	0.00	656.25	5522.34	0.00	51.53	0.00	0.00	0.00
7518.57	2163442	37.00	847.32	323.54	108.50	680.90	5809.95	0.00	54.38	0.00	0.00	0.00
7518.64	2120365	38.00	917.69	458.30	130.58	576.84	6236.13	0.00	37.56	46.84	0.00	0.00
7518.71	1952572	40.00	1384.33	672.31	0.00	477.77	4574.11	0.00	48.62	45.23	0.00	0.00
7518.77	1978439	40.00	4876.08	2959.10	0.00	541.82	7114.98	0.00	53.08	46.82	0.00	0.00
7518.84	1917661	41.00	4548.55	2536.55	0.00	436.59	7727.09	0.00	56.24	65.61	0.00	0.00
7518.90	1782762	43.00	5316.31	2792.44	0.00	494.83	10949.71	0.00	87.70	89.65	0.00	0.00
7518.97	1418590	47.00	4608.68	1100.12	250.70	223.94	29880.61	0.00	244.57	238.81	0.00	24.43
7519.03	1056806	51.00	4921.46	1430.76	196.32	232.17	29385.39	85.26	184.81	215.91	0.00	25.90
7519.10	1296713	48.00	18131.93	9346.28	0.00	935.95	44506.56	0.00	223.55	227.77	0.00	29.57

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7519.17	1347911	48.00	4274.88	1381.00	243.67	236.53	26301.23	0.00	208.50	197.25	0.00	28.62
7519.23	1185508	49.00	3953.39	1213.92	286.11	214.98	26728.88	92.26	204.26	211.50	0.00	22.94
7519.30	1590471	45.00	19699.63	10921.87	0.00	1086.73	57720.67	0.00	204.98	218.11	0.00	47.04
7519.36	1528581	46.00	3075.33	998.98	231.13	317.60	21143.49	0.00	175.62	157.96	0.00	22.26
7519.43	1249264	49.00	3680.09	1097.90	199.87	251.58	28255.01	90.17	185.95	190.60	44.38	26.71
7519.49	1371788	47.00	3252.44	1121.99	240.87	329.35	22290.21	0.00	146.09	172.05	71.21	24.91
7519.56	1953982	40.00	1963.35	723.93	109.16	367.87	15926.25	0.00	99.88	125.20	619.04	14.82
7519.62	1876197	41.00	1677.33	633.10	111.46	342.97	11385.77	0.00	72.68	90.04	1508.14	0.00
7519.69	1760645	43.00	1495.38	619.43	167.16	349.30	12356.89	0.00	100.93	115.69	3508.33	0.00
7519.76	1572498	45.00	2900.22	893.41	226.39	331.94	16959.27	0.00	129.98	142.59	4644.38	17.13
7519.82	1258867	49.00	3407.98	1222.62	222.22	240.12	23414.62	0.00	185.67	219.85	2921.05	19.26
7519.89	1031755	51.00	3930.60	1037.54	191.44	177.94	26665.18	72.76	195.53	264.99	7526.90	25.95
7519.95	1027093	51.00	3818.16	1056.52	184.41	165.45	29133.32	82.51	182.92	221.67	1082.73	24.76
7520.02	1075664	50.00	4201.86	1054.40	217.07	169.92	27807.72	71.74	194.88	208.66	448.27	25.15
7520.08	1131334	50.00	4609.54	1169.51	225.84	210.40	25075.06	78.72	196.08	203.73	983.19	17.35
7520.15	1195299	49.00	4443.24	1207.91	261.84	277.30	30808.21	0.00	213.98	255.60	738.72	33.19
7520.22	1056097	51.00	4644.20	1090.94	240.07	228.98	31924.63	98.07	235.01	254.76	436.28	33.29
7520.28	992632	51.00	5337.68	1213.54	244.28	165.09	26730.11	0.00	149.69	170.69	0.00	26.01
7520.35	1066127	50.00	4510.69	1023.40	287.13	172.16	35014.41	93.45	165.01	195.12	0.00	28.20
7520.41	1113749	50.00	4896.36	1114.09	299.77	226.56	42462.59	92.01	168.39	234.35	53.56	37.71
7520.48	1169875	49.00	4823.19	984.70	273.94	253.85	39407.53	86.28	168.40	228.26	0.00	37.05
7520.54	1147691	50.00	4587.32	900.87	327.99	281.91	39896.27	101.53	194.16	262.36	0.00	28.78
7520.61	1030686	51.00	4998.76	1019.52	293.70	260.50	29069.34	0.00	171.37	218.70	0.00	20.33
7520.67	969778	51.00	4780.39	962.01	257.06	214.90	37911.26	108.17	167.75	251.56	0.00	28.78
7520.74	1039994	51.00	5282.30	955.84	349.83	166.91	25410.72	0.00	139.14	212.09	0.00	16.84
7520.81	1107018	50.00	4845.04	1013.80	242.93	189.98	28807.37	76.62	160.56	223.30	0.00	22.27
7520.87	1129854	50.00	4862.54	926.40	291.21	227.23	41518.28	147.97	138.96	262.95	37.80	20.75
7520.94	1052013	51.00	5141.46	991.89	294.68	210.98	33955.58	81.38	163.24	241.61	0.00	18.02
7521.00	967594	51.00	5057.79	1053.73	349.70	225.32	32241.45	0.00	184.00	262.05	0.00	17.81
7521.07	1134376	50.00	5022.66	1027.18	326.26	211.31	28436.73	0.00	142.90	222.03	33.60	16.15
7521.13	1171116	49.00	5005.08	804.27	299.65	234.19	38985.38	105.64	146.05	244.86	29.93	19.73
7521.20	1196560	49.00	4628.42	899.23	298.21	224.12	44611.23	146.08	148.17	285.11	149.26	23.02

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7521.26	1007590	51.00	4904.68	786.97	335.46	240.33	31775.43	86.73	142.99	223.77	31.69	17.32
7521.33	1182746	49.00	3914.18	762.59	146.59	216.36	64142.17	165.13	138.10	278.81	84.68	34.50
7521.39	1038470	51.00	4773.76	865.32	280.90	239.13	29875.33	78.31	144.59	206.67	34.12	16.07
7521.46	1102153	50.00	4859.50	989.12	303.25	223.33	33059.85	114.99	125.99	247.01	38.95	0.00
7521.52	1256802	49.00	4795.64	895.19	307.89	211.74	45852.86	149.07	130.94	271.51	90.58	22.94
7521.59	1193412	49.00	4527.94	873.80	243.74	225.65	41938.45	115.73	159.48	285.71	98.08	21.49
7521.66	1014089	51.00	5015.69	966.71	289.00	231.51	28478.13	95.00	159.87	222.81	34.19	0.00
7521.72	1091419	50.00	5243.87	1092.48	265.88	233.61	30257.92	0.00	199.09	226.48	34.38	21.50
7521.79	1096462	50.00	4657.85	991.74	247.77	199.41	41376.38	173.48	211.94	236.76	37.30	29.20
7521.85	1187084	49.00	4330.43	1072.14	265.38	211.20	45673.15	131.48	227.32	289.13	55.77	32.07
7521.92	1193293	49.00	4821.06	1159.74	251.50	199.92	38163.31	113.48	205.06	226.47	68.33	27.52
7521.98	1138335	50.00	4554.67	1176.15	241.09	223.09	38875.24	123.44	251.23	301.48	355.74	25.89
7522.05	1091127	50.00	19279.61	757.17	283.58	198.80	29117.91	0.00	206.44	294.11	77.89	19.07
7522.12	1052438	51.00	5041.86	1036.83	235.80	197.05	36758.33	0.00	189.35	207.71	42.79	25.99
7522.18	1132548	50.00	5077.74	1172.80	216.28	259.49	31732.52	81.48	215.40	222.93	92.51	25.99
7522.25	1216157	49.00	4758.12	1170.35	243.40	280.93	35036.74	88.47	235.69	271.06	43.47	26.42
7522.31	1404019	47.00	4628.37	1148.01	265.84	271.91	42328.03	90.84	330.50	304.87	56.33	24.37
7522.38	1951533	40.00	2144.69	733.83	190.63	484.98	14038.17	0.00	89.53	101.84	0.00	0.00
7522.44	1525066	46.00	4106.03	975.21	233.65	341.90	32893.95	0.00	144.72	281.71	0.00	0.00
7522.51	1402856	47.00	4083.35	1052.44	216.94	310.71	24122.46	85.36	151.19	189.16	0.00	0.00
7522.57	1161288	50.00	4998.58	1144.13	268.06	242.83	23027.00	78.76	150.67	165.20	0.00	0.00
7522.64	1366972	47.00	4880.45	1135.15	274.19	256.32	27062.09	0.00	169.58	199.86	0.00	17.32
7522.71	1290507	48.00	4796.40	1184.19	218.47	337.15	35187.71	102.73	230.86	297.13	56.35	18.97
7522.77	1148069	50.00	4693.98	1188.41	268.66	252.15	29780.47	89.60	219.36	321.68	936.34	19.65
7522.84	1113971	50.00	5037.08	1157.98	263.46	292.77	26146.05	77.57	167.20	223.85	68.70	16.19
7522.90	1059302	51.00	5242.71	1355.37	272.46	257.29	24222.17	0.00	185.78	253.18	123.77	19.24
7522.97	1112731	50.00	5239.57	1188.37	202.91	285.58	21496.79	0.00	162.85	198.60	263.76	14.25
7523.03	1218752	49.00	13735.56	1044.94	241.71	306.61	28362.90	0.00	141.96	166.88	61.23	16.21
7523.10	1149113	50.00	5094.00	1021.34	222.77	288.22	21684.39	65.62	129.60	138.16	46.57	0.00
7523.17	1221323	49.00	5389.01	1086.89	300.76	271.48	18627.63	0.00	122.16	147.50	45.35	13.36
7523.23	1227373	49.00	5262.94	835.74	272.13	254.69	15695.36	0.00	128.15	147.71	36.61	0.00
7523.30	1374354	47.00	4713.75	807.41	261.21	346.94	31825.27	0.00	168.96	187.14	203.13	0.00

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7523.36	1141981	50.00	5383.61	924.82	233.67	331.32	20596.06	0.00	154.81	155.72	42.73	0.00
7523.43	1053591	51.00	6017.80	1112.61	326.05	248.98	14225.79	0.00	109.40	112.43	64.03	0.00
7523.49	1033383	51.00	5644.55	818.59	240.91	252.98	15708.90	0.00	113.22	79.79	29.19	0.00
7523.56	1132478	50.00	5240.71	785.05	272.53	253.04	13327.80	0.00	95.68	81.97	42.16	0.00
7523.62	1474030	46.00	4391.41	756.13	162.37	381.32	13704.88	0.00	75.76	66.82	306.87	0.00
7523.69	1875581	41.00	2393.43	420.52	158.52	621.49	11170.06	0.00	40.72	0.00	0.00	0.00
7523.76	1896705	41.00	1414.40	225.30	115.16	674.19	11259.66	0.00	41.65	0.00	77.41	0.00
7523.82	1883790	41.00	17961.36	11082.94	0.00	798.25	6838.88	0.00	29.39	0.00	0.00	0.00
7523.89	1971907	40.00	34147.58	20927.67	0.00	1386.94	10725.98	0.00	24.97	0.00	0.00	0.00
7523.95	2023916	39.00	3132.44	1525.30	0.00	382.16	16446.13	0.00	27.20	59.33	0.00	0.00
7524.02	2046707	39.00	33669.94	0.00	235.06	332.63	4702.69	0.00	22.32	56.39	0.00	0.00
7524.08	2033768	39.00	843.13	240.93	148.62	424.99	5922.02	0.00	29.63	0.00	0.00	0.00
7524.15	1802650	42.00	1961.41	457.57	142.25	496.05	7976.31	0.00	40.83	50.65	0.00	0.00
7524.22	1684136	44.00	2567.05	493.19	210.90	468.88	10532.07	0.00	75.32	80.33	549.58	0.00
7524.28	1198367	49.00	4464.48	700.80	165.49	320.93	15269.35	0.00	88.38	127.11	289.59	0.00
7524.35	1484359	46.00	4040.96	640.84	220.83	330.60	14170.75	0.00	78.84	77.04	213.24	0.00
7524.41	1246603	49.00	4551.36	785.32	208.92	308.88	17175.68	0.00	91.30	102.84	100.69	0.00
7524.48	1074734	50.00	5318.06	896.19	264.25	243.77	14046.45	0.00	85.74	105.73	62.11	0.00
7524.54	1049602	51.00	4849.95	788.75	161.28	256.12	15150.18	0.00	91.37	121.68	216.99	0.00
7524.61	1109083	50.00	5221.27	721.27	179.06	277.52	15334.08	0.00	86.47	113.34	173.59	0.00
7524.67	1349396	48.00	4455.48	775.39	266.01	368.02	17941.95	0.00	80.80	136.72	446.43	0.00
7524.74	1384906	47.00	3994.47	605.52	219.88	372.01	11378.21	61.18	69.19	112.86	815.31	0.00
7524.81	1501193	46.00	4093.89	630.80	189.94	388.52	14209.67	0.00	83.84	91.82	90.99	0.00
7524.87	1301222	48.00	4619.98	617.30	232.39	339.84	13923.31	0.00	89.38	90.22	82.71	0.00
7524.94	1052051	51.00	5049.57	624.82	284.21	248.95	13754.36	0.00	93.36	134.40	115.30	0.00
7525.00	13998	51.55	5270.27	1088.41	232.05	250.94	23771.21	0.00	112.98	132.63	236.56	0.00
7525.07	15811	50.43	5244.80	693.29	230.23	227.28	15577.22	0.00	86.75	139.88	92.53	0.00
7525.13	16265	50.27	5269.80	832.19	340.99	263.58	15028.12	57.98	84.92	125.50	122.30	0.00
7525.20	16166	50.34	5359.78	743.16	297.88	275.25	15954.75	67.11	77.16	103.11	60.63	0.00
7525.26	15250	50.66	5704.76	901.72	201.22	308.14	19645.66	0.00	105.59	105.44	60.67	0.00
7525.33	17514	48.24	4210.76	607.33	161.16	298.91	16469.25	70.15	75.45	85.57	68.06	0.00
7525.39	17679	48.11	4076.11	590.82	216.34	309.78	21300.33	0.00	96.88	90.73	74.28	0.00

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7525.46	19138	46.53	3684.86	937.47	236.72	348.21	29850.79	0.00	113.74	123.66	925.85	20.66
7525.52	22895	43.21	8617.94	4297.46	0.00	758.61	19823.96	0.00	86.01	95.28	160.53	0.00
7525.59	16993	49.28	6729.37	2244.10	271.23	323.64	32884.51	0.00	180.07	264.52	161.78	0.00
7525.66	15995	50.03	6247.92	1883.58	292.49	317.49	22347.76	0.00	146.01	177.71	0.00	0.00
7525.72	18305	46.79	22307.10	13026.58	0.00	1166.31	16020.43	0.00	95.60	81.41	0.00	0.00
7525.79	16937	48.93	4000.99	1384.42	139.78	231.68	50305.39	0.00	297.27	228.26	58.75	69.35
7525.85	16952	49.07	3879.14	1307.15	183.16	178.75	55538.80	111.43	353.90	257.57	60.85	70.02
7525.92	19975	47.53	4056.25	1319.78	229.15	207.80	46684.99	108.84	342.22	248.15	246.53	49.21
7525.98	19930	47.63	4344.99	1415.50	246.86	127.55	51332.70	128.91	360.58	246.03	517.57	63.88
7526.05	17310	49.82	11639.06	1379.62	203.94	185.74	34933.66	80.35	321.74	203.14	961.43	38.77
7526.12	14535	51.04	4074.56	1615.59	218.91	161.11	36529.15	99.81	306.15	205.43	513.34	40.36
7526.18	19012	48.88	3637.03	1456.24	208.08	161.98	36483.36	0.00	278.87	189.27	761.78	39.48
7526.25	15677	50.58	3431.53	1296.50	158.91	125.97	34509.31	94.68	240.69	175.97	698.82	36.28
7526.31	15340	50.63	3425.07	1164.52	166.74	168.48	36433.51	0.00	264.91	182.76	2662.99	42.94
7526.38	16988	49.53	3327.20	1212.04	154.21	181.43	31007.54	98.04	234.90	178.36	1531.75	33.71
7526.44	17453	49.21	3086.91	1046.89	0.00	199.07	32622.35	80.98	271.84	153.96	304.72	33.27
7526.51	16928	49.86	3770.97	1057.78	169.94	178.53	34362.52	79.73	267.98	166.84	267.39	32.53
7526.57	16015	50.39	3563.14	1122.02	169.25	157.66	32678.84	0.00	244.01	131.91	257.64	32.10
7526.64	15493	50.56	3420.37	1173.80	220.03	192.01	33484.22	95.60	204.36	164.65	345.88	38.15
7526.71	15226	50.70	3020.57	1181.28	138.76	164.89	31440.05	101.10	207.38	150.71	323.34	37.40
7526.77	17765	49.78	3083.96	945.18	219.99	155.89	32368.98	87.47	207.26	147.01	20460.84	40.27
7526.84	16665	50.05	3379.70	1046.22	154.24	200.35	29882.81	85.20	217.71	159.39	1650.71	35.27
7526.90	15646	50.76	3344.79	1133.84	168.07	190.67	29333.99	76.10	206.57	137.31	1798.88	29.01
7527.07	1061278	51.00	3154.90	845.14	200.12	244.58	28092.74	98.18	175.13	122.40	249.50	28.11
7527.13	996807	51.00	3468.63	968.52	235.25	176.26	32305.62	138.16	222.55	146.18	255.78	34.58
7527.20	1000165	51.00	3784.19	1041.67	179.99	178.55	31919.71	108.76	238.17	151.01	460.67	29.85
7527.26	1018320	51.00	3649.06	985.37	136.18	184.16	34906.98	110.55	232.84	185.56	362.89	30.10
7527.33	1021399	51.00	3544.56	948.28	189.35	186.05	35642.96	150.92	203.51	149.88	148.43	31.38
7527.39	988503	51.00	3580.79	791.32	172.55	203.35	34532.80	126.08	213.39	123.95	267.44	30.55
7527.46	1083259	50.00	4166.67	1085.18	181.48	257.45	33957.26	128.99	209.14	146.18	219.68	31.87
7527.52	1065827	50.00	4243.06	1002.26	156.13	181.80	35416.53	0.00	220.93	110.72	156.82	27.84
7527.59	1281905	48.00	3321.08	732.00	203.26	273.42	24054.09	88.69	130.82	76.90	112.28	20.70

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7527.66	1359983	47.00	2900.08	825.60	244.43	286.22	21275.13	96.10	130.23	72.60	167.95	19.59
7527.72	1215486	49.00	3985.48	958.21	151.43	251.76	28435.94	106.33	170.04	98.06	330.81	23.76
7527.79	1411965	47.00	3052.35	782.68	206.50	328.38	24195.68	75.30	174.84	113.98	302.47	20.81
7527.85	1194067	49.00	3999.69	1062.98	183.76	234.09	29538.59	112.92	164.57	117.56	442.58	23.38
7527.92	1381205	47.00	3863.72	907.43	137.96	324.07	31164.29	104.76	179.27	117.49	38.63	25.50
7527.98	1225072	49.00	4278.37	1066.91	190.63	254.27	32657.79	116.99	192.32	119.81	39.88	28.75
7528.05	1198329	49.00	16405.21	710.86	211.09	182.54	35465.46	123.28	191.76	126.06	40.25	31.10
7528.12	1112014	50.00	4598.63	994.00	168.69	237.15	33332.62	102.10	198.49	106.00	0.00	30.02
7528.18	1110067	50.00	4219.69	1020.42	231.95	189.93	33381.37	112.01	216.35	118.22	0.00	29.06
7528.25	1172911	49.00	3967.48	930.57	179.63	128.24	40359.17	127.46	278.79	198.49	0.00	52.30
7528.31	1092925	50.00	4322.82	920.40	141.95	175.73	45643.49	174.91	295.68	210.74	33.45	58.01
7528.38	1251460	49.00	4170.21	918.95	172.45	139.09	46912.99	134.71	280.52	197.08	40.98	62.58
7528.44	1158589	50.00	4282.22	799.63	149.39	134.12	54031.44	180.82	200.15	160.90	0.00	65.27
7528.51	1020996	51.00	4339.74	928.88	175.43	180.15	37812.48	116.86	197.76	151.29	0.00	46.21
7528.57	1174871	49.00	3775.84	826.97	148.93	125.56	41647.58	118.68	244.93	140.14	0.00	53.46
7528.64	1080763	50.00	3850.73	912.12	212.40	190.31	41168.59	146.85	217.94	143.40	37.62	44.46
7528.71	1037005	51.00	3743.12	897.20	108.22	203.54	36454.92	117.13	201.06	135.82	0.00	38.41
7528.77	906159	52.00	4076.68	759.87	167.49	239.05	37582.74	129.42	218.49	125.41	0.00	26.22
7528.84	907332	52.00	3929.26	744.72	189.07	147.41	51815.18	133.39	197.72	126.58	0.00	50.32
7528.90	805834	53.00	3764.09	934.97	0.00	215.66	37490.88	140.86	167.82	131.74	0.00	33.91
7528.97	634535	55.00	4088.53	1007.00	146.44	160.25	37595.31	127.45	221.83	124.65	0.00	32.76
7529.03	818138	53.00	22675.60	3962.58	0.00	398.61	38829.45	151.53	222.23	139.14	61.89	32.46
7529.10	834764	53.00	6004.00	2202.08	0.00	264.33	42300.49	145.09	267.99	165.86	0.00	38.88
7529.17	949304	52.00	7744.15	2910.45	0.00	284.68	48529.46	180.00	302.73	189.77	221.18	40.28
7529.23	1105726	50.00	4132.86	875.52	144.11	162.22	42909.00	124.96	243.25	177.57	0.00	33.83
7529.30	1098136	50.00	4016.85	1059.56	143.56	163.21	45347.91	184.38	268.73	168.99	55.73	44.09
7529.36	1012739	51.00	4556.61	1054.70	138.86	229.94	36884.25	132.37	221.83	118.97	35.87	32.59
7529.43	1244719	49.00	50494.42	28970.64	0.00	2083.54	54543.65	145.15	205.20	117.40	0.00	27.77
7529.49	1529438	46.00	149695.94	91185.03	0.00	8248.47	27953.25	132.64	108.22	111.39	0.00	0.00
7529.56	1227483	49.00	8255.06	3150.10	0.00	287.10	34067.93	140.42	194.98	124.70	0.00	30.31
7529.62	1398568	47.00	80341.91	48320.07	0.00	3495.00	26098.19	0.00	135.08	88.86	77.48	0.00
7529.69	1203838	49.00	4289.08	1172.10	184.85	283.22	25517.87	0.00	147.46	103.19	0.00	21.49

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7529.76	1119307	50.00	13656.34	6901.41	0.00	598.80	30023.61	119.58	174.61	128.11	0.00	20.06
7529.82	1051841	51.00	4913.07	1389.42	147.64	210.67	31255.24	122.60	180.60	131.60	30.97	21.21
7529.89	1022736	51.00	6473.05	2543.23	0.00	264.18	32924.13	108.02	203.26	144.52	0.00	24.24
7529.95	1049273	51.00	7804.86	3057.66	0.00	258.06	33285.99	96.20	196.55	137.07	36.10	23.84
7530.02	922379	52.00	7658.88	2628.40	181.25	304.98	34588.84	93.23	217.02	150.62	0.00	20.29
7530.08	973431	51.00	41450.76	23668.03	0.00	1694.94	42412.49	0.00	148.93	121.87	58.46	0.00
7530.15	1518060	46.00	18907.33	10457.62	0.00	752.60	90286.33	159.71	220.99	131.97	0.00	45.58
7530.22	1169140	49.00	5064.87	1694.65	177.65	222.66	34453.65	112.14	197.45	151.70	0.00	21.04
7530.28	1226637	49.00	30833.29	17700.79	0.00	1354.39	33538.38	121.37	190.09	116.68	35.79	25.77
7530.35	1109800	50.00	7515.72	3222.42	0.00	348.48	29131.55	78.62	182.32	147.91	0.00	19.08
7530.41	1372476	47.00	7532.74	3134.87	254.32	398.96	32512.35	96.78	229.68	143.09	0.00	26.00
7530.48	1076086	50.00	12218.28	5795.71	0.00	703.18	29111.79	0.00	183.53	131.50	0.00	19.86
7530.54	1237850	49.00	28938.64	16828.87	0.00	1572.51	25031.29	0.00	151.21	122.74	0.00	0.00
7530.61	1172556	49.00	6775.75	2559.66	181.04	349.50	31456.03	87.26	175.96	115.06	0.00	26.74
7530.67	1162842	50.00	7614.33	3219.61	0.00	362.83	30943.57	98.78	177.62	134.81	0.00	24.40
7530.74	1227613	49.00	107280.82	64635.92	0.00	6041.70	73971.83	0.00	133.63	122.29	115.50	0.00
7530.81	1072276	50.00	18474.79	9995.95	0.00	688.41	29730.29	96.27	185.29	113.64	0.00	21.27
7530.87	1003383	51.00	4757.00	1690.59	0.00	242.04	28336.99	104.70	169.14	104.08	0.00	19.16
7530.94	1195174	49.00	5059.29	1796.43	0.00	210.72	28974.14	102.68	137.66	118.38	0.00	24.76
7531.00	782239	53.00	14814.16	7369.20	0.00	702.75	32268.56	0.00	185.39	130.34	0.00	30.47
7531.07	1066665	50.00	5561.88	1974.80	158.62	307.27	28814.82	82.37	154.48	124.24	39.05	22.48
7531.13	963302	51.00	28155.76	16699.96	0.00	1173.24	33260.22	0.00	139.23	135.75	54.87	25.18
7531.20	959728	52.00	17699.58	9733.56	0.00	729.90	21695.81	0.00	132.24	88.81	386.85	23.89
7531.26	1604393	45.00	91766.94	56122.02	0.00	4567.29	53288.41	0.00	112.30	84.12	136.98	0.00
7531.33	1334137	48.00	5497.12	2234.61	0.00	442.09	16205.76	0.00	108.52	68.35	137.69	0.00
7531.39	1286681	48.00	18505.43	10600.01	0.00	934.82	18583.20	0.00	115.11	64.55	133.21	0.00
7531.46	1759884	43.00	2451.05	564.29	137.39	343.01	15454.53	0.00	94.37	64.52	0.00	0.00
7531.52	1638709	44.00	2280.57	695.23	155.03	324.14	17268.26	0.00	103.61	65.52	0.00	0.00
7531.59	1268276	48.00	3135.28	794.48	168.07	251.94	22616.25	0.00	138.57	107.75	0.00	23.43
7531.66	1419938	47.00	3777.13	775.19	175.84	209.29	27789.93	89.12	169.08	116.21	0.00	18.00
7531.72	1359999	47.00	3627.03	814.11	179.72	205.60	29669.54	136.69	167.79	119.00	0.00	26.06
7531.79	1369553	47.00	4051.38	830.95	133.36	240.92	29712.08	0.00	179.12	128.00	39.36	20.54

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7531.85	1237600	49.00	4015.68	732.14	209.22	218.52	30211.66	84.87	179.93	116.42	0.00	24.52
7531.92	1458154	46.00	31232.37	17756.21	0.00	1237.79	71705.24	0.00	150.99	105.48	73.07	29.45
7531.98	1299333	48.00	13174.22	680.32	152.09	226.98	29102.99	108.50	166.42	121.00	35.93	21.34
7532.05	1199907	49.00	3784.52	845.07	156.44	206.44	29272.40	108.61	173.47	124.70	0.00	24.87
7532.12	1302051	48.00	3944.72	853.27	182.82	246.55	30184.59	0.00	164.44	116.79	0.00	22.35
7532.18	1314292	48.00	3950.62	841.95	186.24	257.62	28643.68	83.40	162.31	119.53	0.00	23.26
7532.25	1175983	49.00	3890.92	912.08	212.69	213.54	30295.61	118.38	182.16	112.67	46.06	23.62
7532.31	1459721	46.00	3947.76	812.22	198.04	250.91	31129.95	98.35	164.82	125.14	0.00	24.28
7532.38	1303700	48.00	4007.51	871.29	215.15	270.85	29928.27	110.56	179.76	141.81	0.00	21.37
7532.44	1373057	47.00	3260.31	745.77	176.78	236.07	28697.14	95.89	161.94	115.19	0.00	26.68
7532.51	1265418	49.00	3476.26	917.84	203.52	265.39	28323.64	0.00	172.63	112.83	0.00	22.81
7532.57	1238775	49.00	3345.37	874.83	165.63	271.05	30945.54	86.46	178.39	123.05	0.00	26.02
7532.64	1284449	48.00	3285.18	947.72	148.52	261.71	27586.08	82.68	189.49	133.94	0.00	23.71
7532.71	1123205	50.00	3883.27	1105.90	183.69	224.40	31372.89	128.56	183.56	141.53	0.00	24.36
7532.77	1393862	47.00	3463.80	958.29	167.50	266.72	31725.21	89.29	190.20	142.66	32.40	23.52
7532.84	1396285	47.00	3654.47	918.38	181.91	241.66	31139.79	0.00	163.66	114.53	0.00	26.03
7532.90	1362860	47.00	3662.20	989.45	203.42	218.16	30931.01	103.63	201.41	127.37	66.19	29.36
7532.97	1201510	49.00	5305.81	927.35	194.55	174.26	32683.12	113.06	200.80	135.88	376.04	25.44
7533.03	1184678	49.00	3694.90	951.33	171.21	226.76	33008.79	102.32	213.83	151.32	298.64	25.96
7533.10	1307410	48.00	3390.84	966.90	133.98	283.98	33019.19	115.13	187.80	154.10	704.57	26.32
7533.17	1416140	47.00	3140.62	778.29	196.22	240.28	26398.22	0.00	163.82	106.92	60.28	21.45
7533.23	1733533	43.00	2351.45	668.21	165.01	341.87	22317.62	77.19	125.64	83.82	92.46	15.73
7533.30	1719751	43.00	2230.28	646.49	144.19	359.05	23028.29	85.84	113.86	91.49	105.76	18.68
7533.36	1562526	45.00	2597.23	756.75	206.07	276.56	23726.94	0.00	144.11	89.97	314.49	17.21
7533.43	1532782	46.00	2601.19	723.30	150.67	350.27	22777.97	0.00	155.89	101.06	202.32	0.00
7533.49	1472085	46.00	3380.70	754.26	184.23	305.27	25945.08	92.61	158.49	134.36	100.78	19.46
7533.56	1212987	49.00	3412.45	826.40	199.99	228.29	30394.95	91.44	168.92	126.02	197.64	22.87
7533.62	1331464	48.00	3555.31	800.92	156.31	268.02	28005.64	0.00	165.28	102.85	179.54	21.45
7533.69	1349908	48.00	3666.65	811.66	174.46	249.21	28156.99	90.90	161.38	99.90	110.57	20.62
7533.76	1219281	49.00	3610.59	869.20	162.83	244.47	34096.25	115.41	159.51	113.61	0.00	26.85
7533.82	1427189	47.00	3886.07	941.19	174.91	212.41	32046.41	94.57	193.83	147.49	138.86	27.67
7533.89	1317628	48.00	3690.00	1022.44	235.84	221.61	31904.19	90.87	192.34	147.28	182.73	23.91

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7533.95	1425530	47.00	3919.42	1001.47	141.26	303.48	29571.51	88.26	185.46	116.46	123.74	26.49
7534.02	1238300	49.00	3856.54	843.41	196.44	177.15	30932.00	104.20	177.42	124.99	140.99	26.42
7534.08	1154375	50.00	3833.27	923.79	172.93	182.94	32506.26	101.21	207.54	142.09	113.72	28.49
7534.15	1026478	51.00	3768.10	876.82	157.25	207.13	34904.65	100.26	198.98	143.20	0.00	24.35
7534.22	960489	51.00	3837.02	887.14	204.52	186.37	35983.71	139.74	183.16	148.00	0.00	28.77
7534.28	1194802	49.00	3946.42	1015.44	132.05	224.64	36598.49	112.73	213.47	179.11	29.15	30.66
7534.35	1116069	50.00	3735.91	1002.31	118.29	170.69	36636.47	94.90	230.00	165.80	152.42	32.21
7534.41	998520	51.00	3858.42	952.09	169.05	174.02	36532.89	86.50	254.52	209.20	352.84	25.56
7534.48	1231396	49.00	4253.21	981.54	165.93	156.28	41429.62	105.09	247.91	165.72	1241.68	30.91
7534.54	1119915	50.00	4038.41	922.91	166.54	167.79	35922.97	98.49	215.66	150.93	245.22	28.09
7534.61	972578	51.00	3375.58	967.25	144.66	182.52	35741.24	86.47	219.64	175.41	1147.40	26.60
7534.67	1201501	49.00	3775.29	1072.94	154.55	163.68	34629.91	114.05	251.01	199.29	485.75	33.69
7534.74	1026263	51.00	4014.10	851.91	208.00	156.00	33999.89	125.84	175.88	144.27	98.57	29.37
7534.81	1109833	50.00	3963.92	748.14	156.01	142.57	32745.48	88.64	168.87	140.76	92.62	27.85
7534.87	1270692	48.00	3463.43	857.54	165.79	156.48	29985.13	86.36	209.70	140.72	140.46	24.12
7535.07	1229111	49.00	3571.53	1005.61	154.08	183.81	36075.17	103.23	254.96	196.61	856.83	33.37
7535.13	1308648	48.00	3439.95	1077.51	204.55	133.06	38405.93	82.58	268.49	208.61	427.56	35.43
7535.20	1151888	50.00	3903.19	995.20	188.78	174.16	36337.63	126.92	226.75	196.74	248.66	33.68
7535.26	687619	54.00	3449.89	823.35	193.11	142.87	32633.46	111.60	181.49	161.05	510.43	33.54
7535.33	1009590	51.00	4224.09	751.88	237.24	178.41	32887.11	92.99	208.47	138.93	199.23	29.01
7535.39	1022079	51.00	3722.53	835.53	182.61	170.26	31482.68	89.14	190.03	138.13	215.90	31.30
7535.46	922666	52.00	3619.75	869.31	188.94	146.17	30528.16	91.00	194.29	145.41	112.54	26.11
7535.52	1203502	49.00	3815.23	895.16	185.82	165.85	33303.96	121.28	190.02	149.20	77.71	30.12
7535.59	1218909	49.00	3994.49	964.89	119.64	152.93	35939.47	111.33	222.19	174.65	342.46	26.83
7535.66	1234984	49.00	3406.90	926.43	163.04	157.03	37214.38	100.58	223.80	188.53	156.19	26.69
7535.72	1201984	49.00	3509.11	898.55	151.66	130.52	47548.36	164.99	195.44	190.53	175.92	37.10
7535.79	1126574	50.00	3145.99	957.04	144.38	130.26	38739.48	101.84	254.34	193.64	467.97	31.87
7535.85	1154499	50.00	3342.23	995.13	133.10	177.49	33363.60	106.74	239.57	186.54	367.88	32.05
7535.92	1048264	51.00	3434.79	916.47	183.64	198.93	35050.76	111.30	222.65	188.74	323.26	32.10
7535.98	1246849	49.00	3631.32	1025.41	155.42	195.42	32204.84	93.88	173.51	157.39	229.72	27.05
7536.05	1146873	50.00	3698.39	977.28	149.45	178.40	30526.86	101.38	197.51	149.43	415.47	26.47
7536.12	1085922	50.00	3548.52	884.52	212.59	164.14	34675.78	118.17	211.83	177.88	891.25	32.16

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7536.18	1043985	51.00	3333.53	938.09	118.40	138.52	33162.70	88.67	209.83	146.52	489.09	33.40
7536.25	1115786	50.00	3729.63	964.25	163.11	152.15	35175.66	91.04	213.16	153.33	814.57	31.57
7536.31	1105804	50.00	3204.66	857.11	227.65	168.72	31017.02	106.91	186.31	147.93	271.18	29.82
7536.38	1108861	50.00	3664.14	1018.98	157.41	166.99	32537.79	109.14	201.63	169.66	223.32	30.67
7536.44	800209	53.00	3093.66	821.07	220.50	151.45	29294.00	0.00	189.94	142.19	199.13	29.25
7536.51	1256477	49.00	3370.82	838.69	166.91	194.43	41387.54	160.10	172.60	153.47	257.33	31.84
7536.57	1231900	49.00	3580.36	892.05	233.34	176.41	32708.14	110.57	189.32	155.59	343.32	31.70
7536.64	1254893	49.00	3450.07	896.12	278.48	165.35	32532.27	88.82	213.36	166.04	185.06	29.19
7536.71	1132940	50.00	3399.13	1025.31	156.61	164.97	36218.65	101.08	240.35	163.39	358.41	39.39
7536.77	1173745	49.00	3518.32	929.51	111.73	192.26	36108.28	142.26	223.79	180.20	772.82	37.28
7536.84	1155135	50.00	3388.20	981.79	175.60	160.67	37778.99	134.29	207.27	175.05	611.76	32.39
7536.90	1100748	50.00	3406.03	927.91	226.70	178.91	35056.88	107.24	208.71	184.85	612.02	34.98
7536.97	770038	53.00	3722.93	1091.28	159.63	193.23	38483.81	0.00	230.52	192.83	1399.10	35.82
7537.07	996926	51.00	7119.46	935.90	231.95	187.67	38084.86	139.01	238.07	215.00	585.29	38.37
7537.13	1033836	51.00	4496.44	1315.50	278.81	198.50	42244.80	97.26	287.13	230.14	412.19	48.59
7537.20	1210089	49.00	3773.61	1178.74	160.85	190.35	34638.59	106.34	199.89	191.06	408.29	40.64
7537.26	1119116	50.00	3650.62	1014.71	201.30	171.55	42868.61	138.26	178.40	176.16	328.48	42.15
7537.33	1115254	50.00	4048.74	1100.37	156.38	200.99	36232.72	147.70	203.83	213.41	282.59	38.84
7537.39	1099514	50.00	3667.99	963.00	187.58	167.40	43396.68	142.47	240.07	203.61	520.03	45.07
7537.46	1385127	47.00	3776.42	1024.00	183.91	196.89	52290.19	158.39	218.20	218.48	226.63	38.58
7537.52	1221509	49.00	3688.74	1061.48	192.13	183.00	39738.30	86.92	239.19	201.27	307.10	40.66
7537.59	1177529	49.00	4095.13	1260.52	204.92	181.61	40976.45	129.77	252.66	189.31	1500.26	52.20
7537.66	1241446	49.00	3496.60	1194.59	220.36	164.02	57172.50	179.46	327.10	219.27	1804.64	78.02
7537.72	1161889	50.00	3356.51	1195.60	184.20	150.55	36900.10	105.11	339.43	253.09	889.08	96.53
7537.79	1052051	51.00	3744.82	1335.37	212.45	133.19	35626.66	114.00	347.26	224.82	891.53	76.87
7537.85	1309952	48.00	3590.25	1316.05	200.99	120.27	47984.31	194.69	292.30	224.20	797.32	89.51
7537.92	1138486	50.00	3566.07	1498.60	168.70	151.33	37218.37	136.55	355.40	260.60	1593.26	64.97
7537.98	1070860	50.00	4140.30	1713.71	193.02	156.82	39906.52	118.03	371.24	257.96	964.25	65.32
7538.05	1254251	49.00	10046.31	1360.30	216.98	151.45	48189.89	180.96	370.04	273.52	1191.79	55.31
7538.12	1196104	49.00	3809.10	1564.39	169.84	156.38	40888.28	124.40	389.35	262.42	1165.16	48.19
7538.18	1272223	48.00	2857.08	1307.48	138.10	98.94	83841.98	317.47	328.31	274.65	2192.26	84.86
7538.25	1013408	51.00	3618.18	1490.45	189.02	135.30	37710.40	125.40	365.66	221.19	908.36	50.99

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7538.31	1039533	51.00	3474.48	1406.03	132.04	155.20	37334.43	103.52	364.14	227.79	1077.23	42.70
7538.38	1194477	49.00	3354.26	1242.41	178.89	170.70	37524.02	151.25	360.52	235.99	760.08	39.17
7538.44	982156	51.00	3718.32	1363.32	129.01	155.36	40759.35	99.74	364.47	251.38	787.82	47.38
7538.51	1337667	48.00	3286.89	1267.34	126.01	139.28	47019.77	180.03	310.64	246.76	490.00	44.36
7538.57	916694	52.00	3696.99	1508.01	203.84	157.00	45468.09	140.19	335.00	286.76	1243.68	52.66
7538.64	1071533	50.00	3719.66	1360.34	184.26	157.47	42063.24	142.14	347.01	263.10	918.86	46.85
7538.71	1119030	50.00	4027.16	1367.30	214.25	169.08	37885.73	129.01	307.90	225.11	756.84	41.76
7538.77	916950	52.00	3920.39	1073.47	226.46	136.52	34791.84	103.35	255.84	182.40	380.81	42.31
7538.84	825469	53.00	3583.58	1101.17	118.28	161.93	33926.51	0.00	225.36	178.25	541.01	42.13
7538.90	1052485	51.00	3689.67	1148.36	238.91	155.56	38301.28	118.06	238.57	189.66	514.74	47.18
7538.97	1116674	50.00	3923.12	1130.43	218.41	147.76	37733.04	120.01	247.39	188.34	391.86	47.42
7539.03	1199442	49.00	12198.48	1035.58	190.36	147.88	37461.39	108.72	246.05	197.25	885.30	48.15
7539.10	1050111	51.00	3607.09	1196.39	149.56	131.21	41253.81	106.10	269.72	186.79	768.46	51.57
7539.17	1413399	47.00	3686.73	1157.48	214.28	131.37	36173.90	98.76	317.61	214.14	510.80	45.53
7539.23	1333970	48.00	3619.61	1279.16	152.92	109.31	39302.40	150.91	239.83	188.04	421.29	45.30
7539.30	1097954	50.00	3876.94	1149.38	204.06	154.40	36756.04	103.06	255.66	211.05	379.39	50.61
7539.36	1050107	51.00	3632.69	1132.36	208.54	141.15	40334.34	145.16	260.45	200.91	495.03	50.57
7539.43	1293609	48.00	3846.53	1189.35	186.87	168.27	38663.12	142.83	262.89	198.59	1467.04	51.65
7539.49	1433555	47.00	2980.34	998.96	287.08	175.86	37395.19	100.67	242.64	219.71	0.00	45.72
7539.56	1254365	49.00	3453.90	916.66	181.59	169.43	42520.80	112.96	242.21	237.20	63.95	60.45
7539.62	1135777	50.00	25545.59	15042.91	0.00	1237.11	29416.20	0.00	184.22	148.15	202.25	33.95
7539.69	1059321	51.00	2622.21	895.04	162.67	185.35	33140.87	0.00	277.77	189.95	0.00	40.81
7539.76	1357384	48.00	4770.53	1848.84	0.00	332.50	109590.84	381.74	0.00	63.63	0.00	130.26
7539.82	1559205	45.00	3569.45	1196.51	165.13	166.47	52295.64	173.28	357.29	267.42	46.00	67.86
7539.89	1253541	49.00	3690.88	1147.31	183.25	120.52	49976.85	135.17	341.87	255.12	44.92	64.18
7539.95	1711047	43.00	2709.96	1005.82	0.00	128.39	112354.35	252.52	337.30	288.32	80.32	191.67
7540.02	609810	55.00	4270.43	1603.61	232.12	186.62	51014.86	0.00	343.62	287.11	418.86	80.63
7540.07	863287	53.00	3018.89	1597.45	190.89	199.70	54845.04	128.46	498.81	346.54	560.59	77.31
7540.13	872577	52.00	3418.69	2054.20	175.19	157.51	54645.92	191.48	526.23	303.28	262.23	82.78
7540.20	856395	53.00	3501.58	1915.46	0.00	113.35	55086.64	148.67	447.47	302.85	2689.55	105.36
7540.26	826528	53.00	2874.01	1888.55	195.09	115.75	57112.65	144.29	470.76	307.41	955.28	105.80
7540.33	667904	54.00	3513.08	2050.19	0.00	172.91	80628.46	0.00	411.22	356.35	314.96	122.25

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7540.39	590748	55.00	4823.96	2732.41	0.00	228.89	62494.76	0.00	453.47	317.67	216.89	133.49
7540.46	1419341	47.00	3602.12	2099.96	254.71	153.34	74195.90	162.55	528.04	358.22	120.66	131.42
7540.52	1177092	49.00	2393.18	1490.61	160.88	103.48	68655.06	172.20	502.51	312.04	199.27	109.36
7540.59	1127870	50.00	2331.00	1248.59	216.19	90.97	82906.86	248.28	335.37	301.30	170.28	118.17
7540.66	1049870	51.00	2329.99	1201.19	157.56	169.77	78180.99	203.74	509.43	275.71	113.57	125.16
7540.72	941900	52.00	2806.19	1537.02	271.20	99.30	66444.65	191.29	484.52	304.13	437.63	100.51
7540.79	893806	52.00	2792.49	1273.72	193.85	80.81	65582.83	187.96	516.59	333.63	224.30	87.47
7540.85	1066397	50.00	2598.98	1512.07	152.52	144.86	59661.27	146.88	383.79	289.04	981.88	86.38
7540.92	1093060	50.00	3702.59	2001.38	167.53	189.31	61699.88	146.69	487.33	335.51	993.37	76.03
7540.98	1003018	51.00	16043.02	1365.27	219.65	101.65	66438.71	0.00	488.66	352.62	2518.50	113.66
7541.05	857311	53.00	2875.55	1470.56	0.00	104.25	53378.94	152.15	426.46	325.39	1785.32	77.74
7541.12	763310	53.00	2852.31	1601.81	246.31	133.29	60851.90	0.00	457.41	334.92	2057.57	81.71
7541.18	1441947	47.00	2730.65	1349.12	0.00	155.19	60473.07	127.91	472.93	284.75	2363.72	80.35
7541.25	1214706	49.00	2692.87	1296.16	184.82	195.00	47292.05	112.21	380.53	310.58	4304.78	69.38
7541.31	1248468	49.00	2561.55	1309.81	120.59	171.57	38532.40	91.96	318.15	273.45	1490.47	65.52
7541.38	1095081	50.00	2533.57	1003.17	212.42	173.57	36410.92	112.55	346.23	298.44	1855.20	53.90
7541.44	1374051	47.00	2381.42	972.38	149.29	236.15	40583.64	0.00	171.19	279.42	488.66	39.60
7541.51	2043872	39.00	1178.35	517.71	0.00	327.25	4401.75	0.00	26.68	0.00	0.00	0.00
7541.57	2081646	38.00	1556.51	801.19	0.00	390.94	2243.96	0.00	24.10	0.00	0.00	0.00
7541.64	2106754	38.00	956.63	542.05	0.00	260.51	1790.17	31.46	18.71	0.00	0.00	0.00
7541.71	2091045	38.00	704.40	413.12	0.00	291.85	2710.99	0.00	38.82	0.00	0.00	0.00
7541.77	2099394	38.00	923.06	409.00	116.81	255.10	4006.73	0.00	23.37	0.00	0.00	0.00
7541.84	2075631	39.00	895.80	355.14	0.00	277.82	4925.31	0.00	31.69	0.00	0.00	0.00
7541.90	2151859	37.00	884.11	321.16	0.00	314.46	5331.62	0.00	32.00	44.72	0.00	0.00
7541.97	2286215	35.00	1183.15	621.10	0.00	312.94	5259.34	0.00	39.69	47.19	0.00	0.00
7542.03	2141958	38.00	2959.82	495.57	195.50	339.56	6176.83	0.00	32.90	60.10	0.00	0.00
7542.10	1857107	42.00	535.88	396.30	108.91	260.13	15107.06	0.00	36.00	40.61	0.00	0.00
7542.17	1566075	45.00	612.76	255.03	0.00	155.40	24737.69	0.00	44.22	58.42	0.00	15.16
7542.23	1005886	51.00	735.29	421.86	0.00	161.93	12473.10	0.00	64.86	84.28	42.48	0.00
7542.30	1132235	50.00	1179.51	593.95	180.45	198.89	31492.83	0.00	112.25	105.14	154.90	26.20
7542.36	988289	51.00	2908.51	1096.77	204.33	207.64	50948.60	122.56	322.12	305.06	478.59	53.20
7542.43	1096115	50.00	2817.86	1287.00	181.77	117.51	49285.74	184.43	467.79	329.44	1379.37	71.82

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7542.49	929795	52.00	2460.61	1261.69	188.92	159.31	47314.37	0.00	468.49	314.04	2158.01	58.16
7542.56	1090256	50.00	2693.12	1390.95	211.96	156.19	44440.33	150.41	400.34	311.63	1493.30	59.03
7542.62	832141	53.00	3019.26	1321.33	252.69	109.82	43096.92	0.00	469.93	325.72	1725.74	54.19
7542.69	887855	52.00	2552.95	1322.94	134.73	88.34	46550.90	0.00	391.95	311.83	1929.48	62.05
7542.76	1149389	50.00	1426.00	701.98	0.00	0.00	134551.73	212.61	288.82	256.43	1525.48	202.72
7542.82	828156	53.00	2587.69	1319.64	200.15	128.89	52656.74	152.82	425.84	328.92	1263.65	72.86
7542.89	1167461	49.00	2934.53	1486.27	208.36	143.68	46664.71	0.00	412.06	293.71	1365.89	64.34
7542.95	1678256	44.00	1782.49	922.74	108.51	185.86	36489.22	102.11	237.75	178.89	1001.84	43.03
7543.07	1347867	48.00	2995.40	1532.49	191.41	132.94	56067.90	154.97	454.74	399.68	1204.00	86.47
7543.13	1265572	48.00	3040.29	1590.89	148.27	130.03	54504.80	170.44	509.37	348.93	715.65	66.16
7543.20	1586545	45.00	1765.03	1278.09	188.47	243.17	26701.83	0.00	277.04	207.96	642.17	29.11
7543.26	1628903	44.00	2933.06	1403.16	175.65	218.91	51585.04	137.65	376.62	319.83	1117.81	73.43
7543.33	1445655	47.00	2575.09	1346.43	0.00	143.18	62168.63	164.33	337.30	293.45	1743.91	96.91
7543.39	1328659	48.00	2833.35	1270.12	193.16	144.67	62075.98	156.84	466.14	383.28	549.90	74.14
7543.46	1213694	49.00	2919.69	1656.22	257.03	134.50	45761.23	115.13	384.03	308.12	382.12	67.52
7543.52	1570048	45.00	2541.20	1252.90	133.95	89.95	90016.29	277.88	354.98	328.61	343.80	87.33
7543.59	1268282	48.00	2916.89	1406.19	207.22	153.82	38593.38	101.31	319.43	285.67	638.25	66.84
7543.66	1249256	49.00	2444.49	1374.84	192.07	125.43	69808.60	149.49	411.88	382.42	1148.40	106.94
7543.72	1359511	47.00	2279.05	1562.18	221.47	127.09	52640.18	146.33	459.51	363.69	595.38	84.05
7543.79	1439176	47.00	2464.68	1535.42	214.03	167.11	60488.93	174.88	468.16	370.08	936.11	97.03
7543.85	1388138	47.00	2565.30	1558.75	203.98	140.59	56772.09	163.17	429.87	378.18	1255.38	86.65
7543.92	1346719	48.00	2713.30	1605.38	242.15	141.24	54028.48	142.07	431.64	370.41	1566.89	81.65
7543.98	1311102	48.00	2177.56	1405.29	259.23	184.74	48718.25	122.89	309.11	277.88	497.11	71.81
7544.05	1322055	48.00	11787.12	1395.72	177.39	140.34	63122.13	193.36	413.28	375.17	637.17	103.16
7544.12	1110677	50.00	2369.60	1643.14	132.69	110.99	55628.28	155.94	387.64	308.31	958.44	76.11
7544.18	1206231	49.00	2289.33	1547.96	189.83	113.84	55757.88	166.29	447.38	342.40	529.42	76.81
7544.25	999797	51.00	2139.15	1547.91	212.67	145.79	42738.42	120.41	378.82	296.76	787.72	63.22
7544.31	1143314	50.00	12016.33	7507.12	210.83	742.74	41179.31	116.24	344.88	260.52	517.19	59.97
7544.38	1328139	48.00	92808.01	57767.70	0.00	5278.28	47409.88	0.00	301.97	266.54	168.17	56.84
7544.44	1014131	51.00	60829.18	38231.81	0.00	3545.70	50664.98	0.00	307.11	257.53	0.00	59.97
7544.51	1049612	51.00	20019.98	11959.39	0.00	1143.58	41712.52	0.00	351.03	293.47	316.51	63.10
7544.57	1147855	50.00	34763.14	21430.19	0.00	2001.41	44363.83	0.00	369.52	285.09	938.32	57.77

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7544.64	1034307	51.00	22464.98	14106.32	0.00	1347.76	31285.68	0.00	318.90	253.11	525.67	47.70
7544.71	953864	52.00	14536.20	8588.08	0.00	824.44	35263.09	0.00	319.65	307.46	452.35	48.60
7544.77	1324891	48.00	37447.83	22789.78	0.00	2089.48	41656.09	0.00	425.12	306.74	336.90	53.15
7544.84	1292709	48.00	30144.82	18431.43	0.00	1770.71	37806.05	0.00	356.69	275.94	83.87	48.29
7544.90	1383066	47.00	47226.73	29344.66	0.00	2663.83	43878.77	0.00	278.75	240.50	56.89	58.89
7544.97	1155465	50.00	18401.71	10863.00	0.00	1044.70	29531.11	0.00	299.85	273.75	40.89	39.74
7545.07	1162680	50.00	15334.57	8658.37	0.00	899.18	29274.75	0.00	310.01	265.09	135.31	45.94
7545.13	1328734	48.00	5956.78	3240.98	147.72	363.84	49623.94	112.83	480.33	348.48	209.24	50.77
7545.20	1314727	48.00	2850.22	1597.28	186.45	102.25	54040.04	97.12	495.62	376.81	873.23	59.09
7545.26	1269144	48.00	3110.74	1442.85	220.82	142.84	53958.84	103.88	483.02	326.37	704.85	57.09
7545.33	1239891	49.00	2659.20	1494.11	145.33	147.65	55484.71	131.45	463.96	310.12	506.03	60.96
7545.39	1328363	48.00	2988.74	1365.17	173.01	196.56	46748.54	105.79	453.90	305.04	344.36	42.24
7545.46	1606307	45.00	11327.85	6672.35	255.40	778.61	19656.42	0.00	206.57	166.46	44.19	22.39
7545.52	1615556	45.00	22994.72	14489.07	0.00	1411.55	43327.16	0.00	223.05	198.59	0.00	48.61
7545.59	1515843	46.00	30279.15	18628.20	0.00	1810.50	55271.80	135.44	375.36	287.78	0.00	61.61
7545.66	1513086	46.00	36619.16	22930.65	0.00	1655.48	54334.88	0.00	396.36	302.59	50.24	47.70
7545.72	1147382	50.00	2659.40	1453.72	260.04	111.77	48040.96	131.77	516.61	357.35	81.81	59.28
7545.79	1184826	49.00	2628.58	1766.51	196.13	96.51	54931.34	142.12	515.51	364.28	1159.06	70.51
7545.85	1205756	49.00	2559.92	1837.78	155.99	100.83	58820.78	183.98	516.42	359.29	1299.50	74.88
7545.92	1292056	48.00	2434.95	1505.66	211.84	98.24	54031.05	173.43	510.84	344.55	1340.56	65.84
7545.98	1206450	49.00	2547.11	1525.26	133.06	128.71	51942.54	105.00	444.08	334.40	801.97	73.60
7546.05	1459850	46.00	7071.30	1231.30	0.00	74.07	124457.40	274.69	356.06	387.82	293.44	141.80
7546.12	1212101	49.00	2659.88	1481.15	136.97	93.32	59318.44	147.07	429.91	355.66	720.77	84.67
7546.18	1178478	49.00	2245.26	1467.99	168.80	90.30	47703.60	0.00	484.49	334.48	1273.93	54.98
7546.25	1435079	47.00	2288.72	1404.53	180.08	152.45	42791.03	96.70	456.61	287.06	1089.15	52.98
7546.31	1512816	46.00	2227.33	1420.32	216.38	220.66	43739.36	121.54	420.08	282.87	2082.23	64.61
7546.38	1253405	49.00	2034.69	1346.98	188.63	123.41	40204.25	0.00	450.90	268.13	1642.43	46.31
7546.44	965822	52.00	1920.25	1134.31	157.98	181.11	32763.76	0.00	359.81	280.34	1520.94	54.01
7546.51	679663	54.00	2131.05	1136.95	173.54	116.14	45446.18	0.00	391.23	240.80	828.14	51.18
7546.57	997494	51.00	2051.33	1416.35	156.97	163.31	48868.17	0.00	460.28	359.76	1254.77	80.85
7546.64	906226	52.00	2232.20	1511.52	0.00	109.94	57845.06	161.98	491.74	395.29	1742.29	100.13
7546.71	726527	54.00	5959.59	3445.88	206.19	284.96	40953.77	0.00	473.10	308.70	1863.87	56.25

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7546.77	1360060	47.00	2774.52	1898.73	204.83	95.52	53267.83	171.47	594.91	409.70	3583.92	80.01
7546.84	516474	56.00	4682.38	3041.37	0.00	252.29	34342.64	0.00	396.38	247.98	2385.40	49.69
7546.90	732319	54.00	3313.49	2159.03	0.00	166.77	56776.45	0.00	391.06	273.89	1481.15	72.53
7546.97	1299521	48.00	5836.44	1540.35	244.54	77.59	68461.41	139.32	587.49	415.09	31063.29	95.80
7547.03	1247702	49.00	2575.07	1745.79	148.17	124.36	50086.80	0.00	512.16	355.80	6832.81	73.52
7547.10	1302702	48.00	2321.25	1519.91	131.56	134.04	44694.86	159.89	493.28	339.63	1475.54	64.90
7547.17	1153968	50.00	3166.91	1818.84	0.00	178.85	47378.21	120.55	418.78	294.19	469.50	62.76
7547.23	1271966	48.00	2475.59	1368.44	202.34	108.07	49449.79	106.28	416.57	317.75	1636.81	82.16
7547.30	1040701	51.00	2430.27	1667.75	139.80	145.58	37883.04	110.09	470.58	282.00	1278.00	47.85
7547.36	1116173	50.00	2794.73	1716.25	120.14	113.83	55366.60	151.98	545.29	436.58	8089.06	80.82
7547.43	1013180	51.00	2575.70	1691.30	0.00	76.18	47818.93	111.65	439.27	349.29	2195.33	84.41
7547.49	1179981	49.00	2426.75	1528.00	158.42	93.13	40153.39	154.38	485.02	371.03	2266.89	56.38
7547.56	1300297	48.00	2360.20	1496.52	148.77	82.68	72212.19	144.89	389.68	388.47	7965.40	120.68
7547.62	1102143	50.00	2447.18	1434.62	163.42	102.21	40257.64	105.24	352.56	335.82	1762.29	68.18
7547.69	1064228	51.00	2467.14	1565.18	0.00	120.65	37888.90	91.19	358.00	299.35	1688.59	61.51
7547.76	1050840	51.00	2312.57	1581.01	162.73	110.50	37214.01	97.78	363.96	295.69	4900.99	65.08
7547.82	972278	51.00	2421.05	1478.87	177.92	116.99	38674.63	93.08	346.13	296.39	14609.85	79.75
7547.89	1006482	51.00	2551.18	1436.75	157.27	109.73	39007.53	105.93	331.85	245.70	751.81	67.96
7547.95	1081292	50.00	2309.76	1498.21	180.51	96.19	41207.06	90.55	461.66	328.00	1345.54	56.04
7548.02	1302183	48.00	5633.65	1315.88	0.00	102.44	60461.91	134.59	489.83	363.62	1210.36	79.94
7548.08	1251679	49.00	2463.79	1383.75	188.46	106.66	43275.78	131.53	416.01	328.66	3260.26	60.64
7548.15	1209721	49.00	2820.61	1576.10	224.70	132.99	47570.19	104.37	511.34	433.11	1392.05	63.30
7548.22	1175075	49.00	2967.35	1343.20	143.70	68.49	49962.07	120.21	364.96	333.93	218.50	76.85
7548.28	1117606	50.00	2606.85	1227.55	170.29	115.51	41810.56	115.50	399.64	336.30	312.09	54.01
7548.35	1217156	49.00	2765.14	1510.09	147.26	102.47	61588.76	119.89	493.82	397.07	174.40	74.77
7548.41	1111289	50.00	2336.28	1290.11	140.54	96.84	45863.27	119.91	369.95	308.03	106.13	66.11
7548.48	1061402	51.00	1966.71	1287.06	0.00	78.64	32786.11	83.36	382.50	278.01	278.42	42.60
7548.54	1130860	50.00	1988.23	1038.74	115.91	111.05	37050.87	80.77	386.98	292.47	385.78	46.13
7548.61	1103148	50.00	2025.07	1064.77	96.68	93.76	36268.92	116.98	337.24	261.01	838.96	51.65
7548.67	1156713	50.00	2473.31	1202.14	107.83	115.13	37483.88	0.00	324.89	270.82	670.93	47.87
7548.74	1085827	50.00	1907.36	1024.63	169.61	78.57	26098.13	88.40	275.52	193.52	269.30	31.28
7548.81	1115009	50.00	1938.78	1212.72	188.90	85.52	27752.38	95.27	310.12	228.61	89.15	34.69

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7548.87	1063933	51.00	2401.82	1114.76	161.94	108.85	39608.61	93.51	307.03	257.99	0.00	55.81
7548.94	964379	52.00	2464.36	995.68	205.41	115.96	35774.56	0.00	272.19	227.78	0.00	50.94
7549.07	745269	54.00	3026.96	1308.13	181.74	181.48	28957.88	123.10	232.36	211.12	338.20	39.12
7549.13	1067278	50.00	2343.08	886.85	189.65	179.17	25562.68	92.44	208.63	147.03	0.00	32.01
7549.20	1280979	48.00	2398.29	1018.89	136.47	117.47	44733.54	133.63	283.86	258.18	0.00	58.82
7549.26	1233309	49.00	2890.43	1184.98	131.05	145.18	37917.63	119.85	271.56	252.94	28.39	53.31
7549.33	1132234	50.00	2805.18	1063.89	184.09	102.83	33495.14	122.83	303.74	256.42	31.71	44.83
7549.39	1256909	49.00	2585.98	981.08	187.52	95.22	42271.28	139.23	284.46	267.33	39.20	50.98
7549.46	1362557	47.00	2429.26	789.94	184.05	110.72	60769.59	188.21	187.85	210.77	0.00	69.93
7549.52	1112889	50.00	2568.81	837.47	160.42	136.36	30422.72	108.76	226.13	185.55	0.00	39.57
7549.59	805186	53.00	1725.95	773.26	0.00	141.19	19532.96	77.61	242.82	148.49	112.56	17.43
7549.66	964705	52.00	1459.49	702.55	166.08	86.24	23530.09	85.10	212.95	167.39	90.74	30.68
7549.72	938155	52.00	1812.64	938.36	105.18	131.17	39661.72	121.96	342.88	185.35	112.36	45.16
7549.79	846631	53.00	2528.27	940.67	114.65	86.01	29138.92	0.00	265.01	190.25	69.28	34.54
7549.85	1085507	50.00	2482.64	989.26	139.88	121.23	30545.69	99.47	346.01	225.80	521.75	34.63
7549.92	1068436	50.00	2475.29	980.64	152.39	126.19	33819.44	131.48	290.54	224.10	241.54	43.18
7549.98	970551	51.00	2478.43	1037.00	162.28	114.74	26191.90	83.40	210.87	211.17	182.41	40.56
7550.05	1258257	49.00	6791.56	924.58	190.16	107.09	28945.84	115.29	297.30	233.46	724.66	40.31
7550.12	1342770	48.00	2221.73	1092.64	174.73	174.83	59273.37	139.14	395.11	304.32	1358.50	87.07
7550.18	1160449	50.00	2441.60	1286.12	157.71	132.12	38540.37	151.82	332.43	270.23	411.95	54.14
7550.25	1045810	51.00	2508.42	1028.80	138.48	126.52	32391.51	87.35	233.80	238.03	280.17	48.23
7550.31	842355	53.00	2249.53	1049.73	129.23	99.67	19910.54	90.67	205.01	159.26	262.34	31.16
7550.38	1029461	51.00	2227.87	1067.03	133.97	102.38	36583.28	103.01	311.05	273.60	516.16	41.31
7550.44	950209	52.00	1949.52	1035.12	102.24	125.65	23144.74	71.77	180.12	151.25	3613.50	37.07
7550.51	910897	52.00	2393.47	1105.89	153.81	92.55	24681.68	89.38	217.24	175.43	226.27	29.57
7550.57	1280874	48.00	3188.53	1531.70	198.08	144.97	45148.71	167.61	431.20	319.14	6102.09	59.87
7550.64	1162093	50.00	2758.84	1119.27	119.37	90.84	35336.38	112.30	211.87	218.99	233.62	42.60
7550.71	1100324	50.00	2356.07	989.04	164.71	129.59	24836.45	104.68	231.93	181.52	310.00	34.85
7550.77	913551	52.00	1998.34	1150.45	106.80	63.75	25485.31	88.92	252.10	193.62	641.21	32.00
7550.84	768168	53.00	2162.54	1142.04	131.88	88.75	29528.83	120.37	239.82	195.09	316.13	35.65
7550.90	1047071	51.00	2164.27	1140.09	155.95	125.79	29650.42	98.93	334.57	230.74	978.93	34.46
7550.97	1115511	50.00	2871.91	1221.52	168.96	116.63	35179.43	0.00	369.20	259.46	13384.98	47.08

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7551.03	1042194	51.00	1473.29	450.53	0.00	170.95	17475.24	0.00	74.91	60.71	870.05	0.00
7551.10	1444019	47.00	807.02	390.75	0.00	248.06	2288.22	0.00	47.07	0.00	117.70	0.00
7551.17	2232312	36.00	779.15	250.66	109.04	275.99	2911.38	0.00	37.82	52.37	80.83	0.00
7551.23	2267609	35.00	761.26	327.33	119.35	245.54	3092.49	0.00	33.82	0.00	0.00	0.00
7551.30	2082659	38.00	559.62	324.10	134.95	276.10	3987.52	0.00	39.85	0.00	0.00	0.00
7551.36	2001981	40.00	847.04	462.48	0.00	212.34	3291.45	0.00	31.14	0.00	0.00	0.00
7551.43	2132020	38.00	779.73	422.03	137.88	238.18	2668.88	0.00	34.91	0.00	0.00	0.00
7551.49	2244638	36.00	786.47	352.90	134.18	288.11	1659.47	0.00	21.36	0.00	0.00	0.00
7551.56	2210967	36.00	1301.69	533.51	0.00	293.29	1711.57	0.00	29.32	0.00	0.00	0.00
7551.62	2325363	34.00	987.28	544.36	111.46	291.13	1713.58	0.00	21.80	0.00	0.00	0.00
7551.69	2187388	37.00	1013.21	577.44	0.00	272.20	1441.73	0.00	31.77	91.50	43.11	0.00
7551.76	1950249	40.00	793.19	392.61	153.32	273.50	1044.38	0.00	25.79	0.00	0.00	0.00
7551.82	2194980	37.00	813.78	362.46	167.70	236.01	968.24	0.00	35.02	0.00	0.00	0.00
7551.89	2118622	38.00	644.50	277.11	0.00	307.59	640.24	0.00	22.85	0.00	0.00	0.00
7551.95	2064445	39.00	711.05	431.91	0.00	241.21	1315.37	0.00	0.00	0.00	0.00	0.00
7552.02	2027627	39.00	9592.61	495.43	0.00	262.54	1232.18	0.00	30.00	0.00	0.00	0.00
7552.08	2027456	39.00	4226.90	2406.60	0.00	442.27	836.86	0.00	20.95	0.00	0.00	0.00
7552.15	1930324	41.00	1367.65	890.56	0.00	290.78	22255.13	0.00	0.00	0.00	0.00	0.00
7552.22	1717619	43.00	1305.19	753.19	0.00	211.71	9003.89	0.00	37.58	86.14	38.47	0.00
7552.28	2254848	36.00	553.53	324.53	0.00	253.67	14104.83	0.00	19.85	45.87	0.00	0.00
7552.35	2055337	39.00	742.58	449.82	0.00	224.66	44665.39	131.60	68.16	84.70	0.00	23.16
7552.41	1060758	51.00	2944.37	1124.20	164.50	111.76	34325.83	140.96	264.00	295.51	0.00	45.72
7552.48	1060499	51.00	3210.45	1643.12	126.63	126.34	34634.46	100.82	460.98	293.55	42.36	43.03
7552.54	1278680	48.00	2813.37	1164.56	160.23	90.36	36486.31	139.08	352.08	324.91	0.00	46.85
7552.61	1133008	50.00	3110.29	1348.46	0.00	109.93	39283.49	118.27	354.06	289.05	0.00	44.85
7552.67	1115254	50.00	2563.10	909.92	0.00	100.40	43220.52	110.99	290.23	243.40	0.00	52.94
7552.74	1382409	47.00	4008.04	1499.78	159.60	215.64	32362.91	112.31	118.20	146.45	0.00	50.27
7552.81	672248	54.00	6008.26	988.08	0.00	196.54	23760.74	90.54	0.00	0.00	0.00	59.85
7552.87	1023555	51.00	11273.15	1479.87	156.94	368.46	37904.92	150.52	19.95	74.90	0.00	76.92
7552.94	753236	53.00	2046.37	836.57	128.59	108.90	23405.29	0.00	237.58	183.34	0.00	31.54
7553.07	1058519	51.00	2315.87	1177.36	120.34	94.93	31741.80	108.58	285.13	229.60	0.00	41.81
7553.13	1246195	49.00	2839.58	1165.26	199.56	128.18	33838.25	94.59	303.56	289.30	0.00	50.46

Depth	XRF	XRF Live Time	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7553.20	1089428	50.00	2365.02	1024.62	116.68	96.31	39798.64	178.29	281.42	347.16	49.20	45.07
7553.26	889368	52.00	2624.12	1042.11	194.39	129.12	24378.55	81.69	172.21	177.82	0.00	38.19
7553.33	1182239	49.00	2829.39	1109.84	213.24	96.86	28280.42	121.85	266.95	241.54	25.81	30.02
7553.39	1281977	48.00	2893.87	1152.40	183.87	78.37	44214.02	166.39	429.01	308.96	39.72	48.88
7553.46	1276875	48.00	2573.51	1029.90	174.95	78.75	32651.53	128.82	211.62	290.72	0.00	42.62
7553.52	1199557	49.00	2841.38	1119.55	168.25	118.12	27029.53	102.80	323.62	266.18	0.00	34.04
7553.59	1146892	50.00	2657.30	1260.82	165.45	134.72	26451.67	112.34	259.82	231.70	33.63	35.92
7553.66	718183	54.00	2868.64	1090.87	0.00	151.53	23349.70	114.88	22.81	51.38	0.00	49.71
7553.72	1080697	50.00	2797.34	941.04	192.86	105.36	19594.61	82.68	196.23	176.93	0.00	29.59
7553.79	1046807	51.00	2835.72	1175.06	205.95	105.06	25430.23	75.47	302.22	231.40	109.60	33.35
7553.85	1181333	49.00	2929.97	1302.03	115.71	117.61	37283.33	136.01	351.89	314.17	79.67	58.30
7553.92	994082	51.00	2176.19	777.88	131.21	135.34	17614.06	0.00	151.37	152.86	0.00	28.27
7553.98	996554	51.00	3204.21	1099.04	182.74	142.08	27061.37	105.29	177.94	195.34	34.23	39.69
7554.05	1158533	50.00	3170.70	997.44	167.70	140.74	26287.27	82.69	254.21	230.50	129.32	36.10
7554.12	1353012	48.00	3357.10	878.41	164.06	115.81	29842.05	87.79	232.92	241.66	0.00	39.01
7554.18	2202958	37.00	1344.27	761.52	0.00	549.39	9782.04	0.00	29.65	0.00	0.00	0.00
7554.25	2047940	39.00	1419.54	596.01	0.00	407.28	7291.94	0.00	69.39	74.63	0.00	0.00
7554.31	1924669	41.00	909.15	295.21	182.85	161.84	5675.51	0.00	74.45	75.24	0.00	0.00
7554.38	2092658	38.00	375.55	323.88	0.00	326.40	1560.57	0.00	30.42	37.41	129.67	0.00
7554.44	1537503	46.00	1479.96	609.68	0.00	233.48	7281.53	0.00	71.33	51.21	0.00	0.00
7554.51	1521051	46.00	4068.40	943.37	167.79	130.86	35389.72	130.65	276.88	322.35	72.11	47.61
7554.57	2117703	38.00	1337.46	696.42	170.79	219.92	4268.75	0.00	70.60	0.00	0.00	0.00
7554.64	1556898	45.00	2828.94	1068.12	157.31	133.39	22245.88	90.85	306.10	312.51	2140.56	35.48
7554.71	1226495	49.00	2584.18	1192.01	168.36	117.89	27667.37	0.00	423.10	478.76	3069.61	44.02
7554.77	1046676	51.00	3221.15	1680.75	220.56	123.56	25465.68	103.47	413.87	530.55	3955.29	42.74
7554.84	2095933	38.00	793.09	549.63	125.99	305.67	6756.80	0.00	75.63	58.06	9061.43	15.03
7554.90	1973090	40.00	568.13	341.96	0.00	318.25	3660.04	0.00	53.89	0.00	0.00	0.00
7554.97	1859281	42.00	756.54	334.00	0.00	345.84	3707.06	0.00	57.18	41.60	0.00	0.00

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7517.07	162.19	177.75	0.00	239.53	89.85	122.24	0.00	55.86	40.84	27.54	538265.06	0.00	75034.45	250036.70
7517.13	148.78	116.44	0.00	239.53	95.04	123.69	45.79	0.00	30.95	23.26	546059.41	0.00	64463.51	248154.39
7517.20	143.84	133.73	0.00	235.21	84.93	118.18	32.41	24.79	34.57	24.27	558969.59	0.00	59182.88	218718.85
7517.26	144.44	116.99	0.00	236.59	87.23	125.67	37.23	0.00	32.22	20.26	581498.62	0.00	60875.43	212989.86
7517.33	145.93	125.98	0.00	230.34	89.68	123.99	0.00	0.00	38.95	23.50	570876.83	0.00	74691.11	233292.03
7517.39	42.00	0.00	0.00	243.91	97.84	129.24	0.00	0.00	0.00	0.00	555683.23	0.00	6802.95	78720.63
7517.46	104.73	0.00	0.00	270.80	104.41	128.07	0.00	0.00	7.66	0.00	536434.48	0.00	4720.81	57641.71
7517.52	41.76	0.00	0.00	267.67	96.93	121.20	0.00	0.00	0.00	0.00	563357.83	0.00	4026.66	58102.90
7517.59	69.31	0.00	0.00	264.16	95.57	115.90	0.00	29.33	0.00	0.00	528199.53	0.00	7855.13	137800.95
7517.66	84.81	0.00	0.00	271.36	108.21	127.64	0.00	28.31	0.00	0.00	487294.37	0.00	14407.67	198147.64
7517.72	144.26	0.00	0.00	267.13	109.14	125.17	0.00	48.08	11.68	0.00	419480.95	0.00	8372.03	50745.54
7517.79	168.76	14.20	0.00	255.14	104.38	120.32	0.00	42.84	19.88	0.00	399571.75	0.00	9758.52	46535.72
7517.85	32.31	0.00	0.00	257.33	93.93	124.13	0.00	0.00	0.00	0.00	557453.91	0.00	6817.71	38785.30
7517.92	41.16	0.00	0.00	273.98	106.94	138.24	0.00	0.00	0.00	0.00	590429.06	0.00	10849.29	41724.61
7517.98	27.60	0.00	0.00	262.06	102.45	132.87	0.00	0.00	0.00	0.00	591529.25	0.00	6543.75	32265.42
7518.05	28.85	0.00	0.00	256.28	94.00	125.62	0.00	0.00	0.00	0.00	600452.96	0.00	6324.77	27774.22
7518.12	29.53	0.00	0.00	249.65	97.97	123.70	0.00	0.00	10.03	0.00	580615.17	0.00	3746.60	27389.68
7518.18	27.89	0.00	0.00	249.62	100.82	125.84	0.00	0.00	0.00	0.00	593552.14	0.00	4051.61	31906.81
7518.25	29.61	0.00	0.00	261.98	94.78	126.69	0.00	0.00	0.00	0.00	620915.74	0.00	3429.37	30463.51
7518.31	31.63	0.00	0.00	264.50	92.48	135.97	0.00	0.00	0.00	0.00	623971.74	0.00	3215.47	27131.67
7518.38	32.20	0.00	0.00	252.00	101.15	133.53	0.00	0.00	0.00	0.00	622682.76	0.00	4532.24	32636.72
7518.44	30.36	0.00	0.00	257.86	97.35	133.82	0.00	0.00	0.00	0.00	619743.31	0.00	4511.57	38200.51
7518.51	37.52	0.00	0.00	270.88	109.70	126.48	0.00	0.00	0.00	0.00	636214.23	0.00	3985.46	36154.83
7518.57	37.51	0.00	0.00	287.83	101.35	132.11	0.00	0.00	0.00	0.00	557046.81	0.00	8979.32	57291.69
7518.64	34.05	9.90	0.00	271.46	90.06	125.61	0.00	0.00	7.52	0.00	563426.17	0.00	7716.01	55869.39
7518.71	35.26	0.00	0.00	254.64	102.23	127.71	0.00	0.00	0.00	0.00	564570.63	0.00	7534.60	61045.99
7518.77	67.50	0.00	0.00	239.11	94.09	126.80	0.00	0.00	9.69	0.00	554158.17	0.00	6322.21	84266.12
7518.84	67.58	19.16	0.00	248.98	90.18	120.94	0.00	0.00	0.00	0.00	551368.99	0.00	10177.17	112784.55
7518.90	82.11	44.32	0.00	247.64	91.95	126.63	0.00	0.00	11.74	0.00	561573.92	0.00	19253.44	116820.91
7518.97	164.69	139.80	0.00	237.52	97.61	128.56	35.44	22.80	36.59	20.92	531614.85	0.00	76846.68	226512.16
7519.03	151.13	113.96	0.00	267.61	102.65	132.20	43.36	28.72	37.31	25.30	558663.64	0.00	71578.43	234175.36
7519.10	216.68	107.80	0.00	240.30	90.38	106.85	48.70	0.00	44.50	26.38	491507.62	0.00	69462.13	240151.15

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7519.17	152.22	103.14	0.00	243.68	90.90	125.32	37.14	25.12	27.26	24.56	578718.72	0.00	62279.44	211417.94
7519.23	146.70	122.98	0.00	265.19	99.95	132.64	40.53	0.00	34.52	20.85	555470.77	0.00	67860.46	241129.25
7519.30	196.11	97.93	0.00	241.51	89.41	114.63	0.00	0.00	38.46	21.60	459400.63	0.00	52873.73	208777.91
7519.36	127.77	76.13	0.00	243.99	91.85	125.32	40.43	29.53	24.71	14.88	555455.03	0.00	47077.35	194757.60
7519.43	144.64	103.83	0.00	265.61	96.91	129.05	56.50	0.00	31.53	21.57	572764.14	0.00	57457.24	216475.49
7519.49	128.42	85.96	0.00	266.52	100.18	141.09	0.00	30.83	23.56	21.92	551270.87	0.00	54057.84	188929.33
7519.56	84.51	50.57	0.00	256.09	95.41	129.27	0.00	40.90	13.89	0.00	535786.09	0.00	30016.02	127350.14
7519.62	64.49	32.01	0.00	275.63	88.20	127.19	0.00	56.26	11.36	0.00	559668.01	0.00	16413.59	119138.30
7519.69	83.21	47.78	0.00	298.40	94.49	122.98	0.00	80.53	13.55	0.00	569131.71	0.00	22095.47	119761.81
7519.76	123.42	79.56	0.00	313.51	90.63	133.44	0.00	143.46	21.11	0.00	580567.52	0.00	34432.14	143619.30
7519.82	140.32	110.69	0.00	296.43	95.02	122.49	49.60	90.03	30.76	21.28	581017.26	0.00	50647.95	208854.18
7519.89	141.92	123.10	0.00	349.28	91.13	128.49	49.26	187.88	34.09	22.33	583441.97	0.00	58836.63	253471.23
7519.95	135.35	104.13	0.00	250.09	95.62	123.20	39.39	39.82	38.84	23.69	580346.78	0.00	63353.88	269867.48
7520.02	139.36	81.45	0.00	263.51	95.56	125.72	40.75	34.72	38.39	20.44	550503.23	0.00	69048.41	300479.77
7520.08	155.32	73.78	0.00	243.72	96.12	120.02	42.51	55.50	35.05	22.60	554488.70	0.00	76472.70	274325.02
7520.15	159.84	116.59	0.00	250.30	93.43	122.71	43.96	45.21	32.13	25.93	561272.15	0.00	72325.45	246358.83
7520.22	181.79	113.09	0.00	265.47	93.92	120.05	58.11	0.00	35.91	28.78	568892.86	0.00	76732.66	257973.93
7520.28	153.31	37.82	0.00	238.28	92.95	122.74	46.05	0.00	26.73	24.67	581406.20	0.00	76086.05	256057.22
7520.35	158.26	47.23	0.00	229.34	89.78	118.75	38.73	25.58	29.97	28.56	554160.74	0.00	77636.21	269998.84
7520.41	155.01	35.04	0.00	254.01	87.15	120.95	36.28	0.00	25.35	26.32	549936.25	0.00	80090.14	250920.37
7520.48	161.60	31.47	0.00	202.09	83.20	120.40	39.68	25.48	22.53	29.09	541576.96	0.00	85158.98	257898.66
7520.54	161.91	31.80	0.00	238.58	85.74	122.95	43.39	0.00	27.84	24.64	547936.61	0.00	84298.01	258680.33
7520.61	166.79	19.77	0.00	226.20	83.53	121.53	51.73	0.00	16.19	27.08	578477.54	0.00	79911.40	250552.61
7520.67	153.83	32.25	0.00	241.48	89.17	112.29	42.55	26.68	32.01	27.58	577849.16	0.00	75561.19	240237.49
7520.74	177.84	19.29	0.00	237.77	94.40	120.38	48.35	0.00	23.81	29.54	553664.23	0.00	89762.06	278683.88
7520.81	166.41	44.06	0.00	245.15	89.98	112.85	39.05	0.00	28.26	29.03	567548.77	0.00	78211.96	245706.98
7520.87	165.94	34.68	0.00	237.46	94.08	118.05	38.97	0.00	22.49	25.70	566022.34	0.00	73402.99	228466.42
7520.94	166.36	32.39	0.00	237.46	91.67	121.43	45.51	0.00	22.73	30.81	578877.84	0.00	73947.96	235338.66
7521.00	165.00	28.43	0.00	223.23	80.58	114.35	0.00	0.00	23.38	28.66	589203.75	0.00	76225.29	238207.84
7521.07	163.01	25.91	0.00	245.65	89.90	118.87	53.24	21.66	21.10	28.74	536160.91	0.00	93468.76	282442.32
7521.13	163.40	28.35	0.00	240.02	92.98	121.57	49.58	0.00	24.50	29.20	529707.45	0.00	88690.82	275913.82
7521.20	156.66	38.24	0.00	237.11	92.77	120.14	39.77	0.00	28.91	24.13	529251.38	0.00	87777.50	262196.95

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7521.26	163.07	27.09	0.00	224.20	92.06	124.34	40.44	0.00	23.77	26.57	583564.25	0.00	77980.94	242601.41
7521.33	159.52	30.18	0.00	219.96	80.62	116.47	52.32	0.00	30.91	24.04	559828.57	0.00	70814.49	206034.50
7521.39	159.91	29.01	0.00	248.46	86.66	123.20	41.30	0.00	23.23	26.67	573676.99	0.00	81270.99	247545.54
7521.46	166.05	31.22	0.00	251.17	97.88	127.97	36.77	26.58	26.16	27.01	566359.45	0.00	83096.75	245642.76
7521.52	166.47	34.28	0.00	252.67	93.41	121.42	49.10	0.00	28.68	28.10	536480.98	0.00	82542.28	239812.05
7521.59	162.36	47.89	0.00	257.03	87.45	124.38	44.04	0.00	27.83	24.74	554572.69	0.00	78380.66	229913.82
7521.66	161.23	42.15	0.00	218.33	87.92	126.51	47.04	24.47	28.05	25.67	591727.61	0.00	74226.57	230566.41
7521.72	169.61	57.47	0.00	243.48	90.78	124.52	39.77	0.00	25.16	24.46	578758.88	0.00	78173.26	240342.31
7521.79	166.19	70.77	0.00	221.36	88.06	115.18	43.78	24.47	40.35	24.77	568743.53	0.00	74281.11	229279.81
7521.85	180.10	97.00	0.00	248.07	92.72	131.66	51.69	25.62	36.02	26.65	533262.03	0.00	83666.55	250300.88
7521.92	178.77	78.66	0.00	260.57	95.17	128.66	47.65	23.42	41.72	27.92	529058.65	0.00	86822.67	271219.16
7521.98	176.98	107.99	0.00	232.69	90.35	120.58	0.00	37.81	42.74	23.76	572988.70	0.00	71964.74	226701.37
7522.05	170.78	75.75	0.00	230.49	94.04	121.88	47.10	0.00	33.60	24.11	613355.96	0.00	67789.45	208466.53
7522.12	172.07	63.68	0.00	265.84	98.94	126.40	45.48	28.44	33.90	25.81	570375.21	0.00	75956.86	236019.64
7522.18	178.57	89.98	0.00	243.21	95.06	123.48	43.49	26.22	30.11	27.96	571537.05	0.00	74797.80	231518.73
7522.25	177.87	92.06	0.00	245.08	93.67	123.11	42.90	26.91	34.37	24.57	564458.04	0.00	74890.00	223285.36
7522.31	183.61	184.46	0.00	270.45	101.54	120.62	45.65	26.16	44.87	24.76	521295.76	0.00	82250.74	238241.79
7522.38	116.26	24.72	0.00	246.27	97.80	125.85	0.00	32.96	17.48	0.00	547005.03	0.00	30238.32	115766.59
7522.44	169.80	46.25	0.00	241.54	94.96	122.38	46.60	0.00	35.52	24.59	555406.69	0.00	66347.66	164555.20
7522.51	174.71	33.78	0.00	223.47	95.44	118.60	0.00	0.00	28.13	20.86	573154.61	0.00	59222.91	180859.88
7522.57	174.63	23.10	0.00	234.92	94.16	131.38	40.57	27.17	22.95	23.08	558370.69	0.00	76466.29	230855.98
7522.64	181.90	30.23	0.00	253.66	87.77	115.20	40.49	24.50	26.87	29.92	538185.79	0.00	76309.25	234495.43
7522.71	178.65	53.97	0.00	241.88	91.62	123.56	0.00	0.00	41.33	25.81	549725.88	0.00	76043.42	227775.90
7522.77	187.75	59.05	0.00	245.93	92.63	125.83	0.00	53.71	36.39	26.13	571467.81	0.00	77604.74	229964.86
7522.84	184.50	35.86	0.00	249.86	94.07	124.23	45.06	0.00	25.28	28.16	578845.59	0.00	74374.97	227143.69
7522.90	186.04	38.21	0.00	255.23	92.78	120.99	47.54	0.00	23.69	29.07	586930.95	0.00	76717.70	227845.06
7522.97	174.17	13.97	0.00	230.63	88.58	122.92	44.88	0.00	16.69	25.59	563373.79	0.00	82505.35	246509.53
7523.03	165.84	0.00	0.00	260.06	96.39	127.19	36.72	32.45	24.76	27.14	579542.50	0.00	78629.06	222294.21
7523.10	172.52	0.00	0.00	239.50	92.15	121.91	0.00	0.00	17.77	26.49	562804.46	0.00	82578.51	244396.86
7523.17	174.93	0.00	0.00	240.09	93.75	118.63	38.92	0.00	10.33	29.16	533097.25	0.00	89618.96	266834.54
7523.23	187.29	0.00	0.00	245.82	89.14	125.65	34.22	0.00	12.12	29.22	550731.91	0.00	81745.76	249464.63
7523.30	176.35	0.00	0.00	229.98	88.82	127.72	36.06	26.80	21.12	27.22	550133.20	0.00	69147.84	210298.45

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7523.36	177.33	0.00	0.00	244.11	92.30	124.13	46.91	0.00	19.57	26.60	572913.44	0.00	77016.91	231371.12
7523.43	183.00	0.00	0.00	251.31	96.26	131.57	39.20	24.84	11.18	24.92	580790.47	0.00	80185.17	239220.30
7523.49	171.89	0.00	0.00	248.95	92.33	120.51	34.11	22.45	14.55	29.46	571960.02	0.00	84288.36	251253.49
7523.56	174.49	0.00	0.00	246.70	97.01	126.49	33.65	26.60	11.22	29.37	578492.97	0.00	74997.51	229273.14
7523.62	180.60	0.00	0.00	240.13	91.89	117.73	0.00	27.90	9.76	21.37	568429.07	0.00	54053.51	190423.16
7523.69	171.54	0.00	0.00	259.34	101.19	137.53	0.00	0.00	8.37	16.33	579984.55	0.00	20535.61	98484.92
7523.76	118.43	0.00	0.00	269.63	94.27	136.55	0.00	0.00	0.00	0.00	594733.66	0.00	9742.72	56963.75
7523.82	95.61	0.00	0.00	274.17	104.01	127.54	0.00	0.00	0.00	0.00	581552.84	0.00	4409.95	18703.25
7523.89	130.54	0.00	0.00	249.28	103.38	124.71	0.00	0.00	0.00	0.00	537547.74	0.00	4437.57	18637.56
7523.95	55.11	0.00	0.00	271.11	99.01	131.83	0.00	0.00	8.63	0.00	584728.46	0.00	8338.25	26857.76
7524.02	41.58	0.00	0.00	236.51	95.08	116.74	0.00	0.00	0.00	0.00	587822.07	0.00	14824.49	33332.81
7524.08	59.80	0.00	0.00	242.69	91.28	128.51	0.00	0.00	0.00	0.00	591687.11	0.00	8890.94	37227.12
7524.15	117.34	0.00	0.00	236.96	100.85	125.61	0.00	0.00	0.00	0.00	595222.60	0.00	23219.78	94550.48
7524.22	160.56	0.00	0.00	242.58	101.38	130.90	0.00	0.00	10.92	0.00	591368.94	0.00	30023.40	117767.21
7524.28	190.24	0.00	0.00	279.02	99.70	136.21	40.20	0.00	0.00	22.03	573290.19	0.00	58798.05	199334.95
7524.35	195.81	0.00	0.00	259.41	100.39	117.93	0.00	29.55	6.17	20.56	568122.30	0.00	54050.69	190642.96
7524.41	181.72	0.00	0.00	257.22	97.60	124.49	37.91	30.33	11.03	22.16	574140.51	0.00	64530.76	214618.33
7524.48	185.94	0.00	0.00	260.71	101.08	123.51	0.00	0.00	13.17	25.58	591063.42	0.00	71899.13	224737.66
7524.54	175.14	0.00	0.00	261.38	96.74	128.79	39.68	0.00	12.27	23.19	594583.83	0.00	68873.89	218041.75
7524.61	179.50	0.00	0.00	246.28	102.07	131.49	48.87	0.00	8.90	26.64	580119.80	0.00	73509.92	227276.22
7524.67	204.66	0.00	0.00	263.79	100.79	122.20	0.00	0.00	11.09	19.63	610751.49	0.00	49969.23	184315.10
7524.74	199.82	0.00	0.00	293.61	103.63	131.55	0.00	39.88	8.58	18.20	594289.94	0.00	41172.18	164029.37
7524.81	169.74	0.00	0.00	238.03	98.15	121.37	33.90	0.00	0.00	22.21	573522.02	0.00	49948.69	179774.08
7524.87	171.66	0.00	0.00	252.62	89.96	120.38	38.18	26.22	8.59	23.31	571910.87	0.00	62724.65	207781.00
7524.94	198.55	0.00	0.00	261.99	98.58	128.38	40.24	0.00	14.24	27.25	586041.20	0.00	70510.48	235914.40
7525.00	173.94	0.00	0.00	273.92	104.24	136.77	50.21	0.00	14.40	23.03	595892.82	0.00	68905.37	223830.85
7525.07	175.51	0.00	0.00	254.46	97.93	123.96	43.58	0.00	10.16	22.69	572793.75	0.00	73878.56	241413.02
7525.13	182.61	0.00	0.00	254.76	98.11	130.15	38.97	23.88	6.13	25.92	569524.10	0.00	78771.60	245426.42
7525.20	178.66	0.00	0.00	262.91	99.71	130.37	40.04	28.85	16.59	24.77	570092.17	0.00	75734.67	246500.06
7525.26	178.67	0.00	0.00	229.14	93.63	123.11	35.71	0.00	14.57	25.95	592699.87	0.00	66592.14	219871.86
7525.33	198.61	0.00	0.00	244.46	95.56	133.17	0.00	0.00	13.17	19.90	599294.62	0.00	45142.79	177911.80
7525.39	209.34	0.00	0.00	266.71	93.52	137.13	0.00	0.00	12.08	18.86	593780.44	0.00	43111.51	184057.27

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7525.46	201.60	0.00	0.00	248.07	95.96	124.21	0.00	44.95	16.98	19.70	575752.70	0.00	34454.57	149648.80
7525.52	171.14	0.00	0.00	253.53	96.93	125.03	0.00	29.94	9.29	16.22	534162.15	0.00	40578.59	142309.20
7525.59	187.36	37.57	0.00	250.97	92.75	122.92	0.00	0.00	29.38	26.57	563672.41	0.00	70921.25	214434.69
7525.66	210.01	15.03	0.00	243.14	92.92	121.18	44.22	28.35	15.98	30.49	575967.92	0.00	75772.72	215836.03
7525.72	271.00	0.00	0.00	241.84	108.18	124.55	0.00	36.71	13.66	29.13	528063.10	0.00	41705.53	170352.94
7525.79	135.51	140.28	0.00	222.77	98.84	125.70	43.98	0.00	42.44	24.00	577956.87	0.00	55607.30	184485.11
7525.85	128.71	148.85	0.00	226.64	96.04	129.14	0.00	29.18	43.49	21.57	572298.64	0.00	59070.06	194710.19
7525.92	134.06	163.02	0.00	257.23	93.43	123.34	43.39	0.00	52.31	24.74	543733.69	0.00	66171.99	218114.03
7525.98	134.39	177.42	0.00	262.19	97.75	123.11	45.43	31.58	40.33	26.29	519609.03	0.00	72923.37	252155.03
7526.05	140.57	148.01	0.00	268.48	99.45	127.11	43.59	37.36	41.20	24.85	588533.18	0.00	63526.99	242948.20
7526.12	132.90	155.76	0.00	238.39	93.41	130.60	43.54	0.00	40.62	26.76	659276.09	0.00	44939.94	184088.68
7526.18	124.47	107.28	0.00	238.46	92.38	126.48	37.13	30.16	37.51	26.13	533553.54	0.00	65732.64	285888.87
7526.25	111.82	97.83	0.00	232.20	93.10	135.46	0.00	0.00	30.70	22.09	588353.98	0.00	49924.69	251418.62
7526.31	106.10	108.53	0.00	279.93	95.65	126.94	40.61	89.34	33.93	20.92	615009.59	0.00	42292.71	228035.25
7526.38	107.65	100.44	0.00	267.40	93.36	130.61	0.00	65.44	30.42	19.37	594917.94	0.00	44179.52	231112.67
7526.44	106.42	117.90	0.00	247.08	96.03	135.65	0.00	0.00	25.04	18.76	590055.70	0.00	49394.49	232722.58
7526.51	119.03	110.35	0.00	259.38	94.27	131.17	0.00	0.00	30.91	22.90	567199.87	0.00	54054.26	261988.97
7526.57	117.89	96.07	0.00	245.59	97.12	123.26	0.00	28.87	27.96	21.89	577403.99	0.00	52072.93	264977.77
7526.64	113.55	89.78	0.00	236.96	98.16	124.48	0.00	0.00	31.10	20.53	592762.75	0.00	49635.56	234625.87
7526.71	103.24	86.68	0.00	241.65	96.12	124.85	36.99	0.00	27.39	23.02	598448.12	0.00	43717.04	236185.66
7526.77	115.42	122.20	0.00	464.41	96.05	127.33	0.00	533.70	27.08	22.08	558960.44	0.00	51267.63	251787.18
7526.84	113.24	113.18	0.00	269.64	94.99	127.25	35.14	47.80	23.27	23.12	562213.47	0.00	59188.88	269731.25
7526.90	104.68	97.38	0.00	263.60	91.64	123.19	0.00	50.76	25.71	19.82	587509.49	0.00	47763.06	258876.27
7527.07	100.54	66.88	0.00	242.26	93.15	126.75	40.60	0.00	27.80	19.86	576547.67	0.00	48865.42	265695.60
7527.13	110.06	97.31	0.00	235.65	92.32	130.43	40.49	0.00	21.50	23.66	580970.57	0.00	56600.57	273382.91
7527.20	121.21	98.15	0.00	240.64	97.74	132.63	35.12	0.00	28.19	21.94	576448.59	0.00	57348.24	271419.07
7527.26	122.00	122.97	0.00	246.33	89.89	125.40	0.00	0.00	31.55	26.37	590814.92	0.00	54034.21	241942.01
7527.33	111.17	90.77	0.00	229.85	90.78	123.33	0.00	0.00	29.86	17.79	578346.80	0.00	54619.71	257680.81
7527.39	112.91	79.98	0.00	224.03	90.30	127.55	37.75	0.00	30.23	19.35	600098.09	0.00	50020.31	234625.89
7527.46	131.91	80.25	0.00	232.00	93.80	127.29	42.16	30.24	27.95	26.76	579596.50	0.00	58903.72	233232.13
7527.52	137.78	86.74	0.00	237.38	94.17	127.85	48.15	0.00	35.42	22.67	577170.30	0.00	60816.99	240432.19
7527.59	112.06	51.40	0.00	240.75	94.02	127.48	42.64	26.54	19.04	17.64	559336.46	0.00	49154.68	232073.23

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7527.66	100.97	52.99	0.00	247.56	97.61	128.15	33.53	0.00	16.60	20.76	565006.05	0.00	43625.05	212364.75
7527.72	116.36	61.47	0.00	249.70	100.84	128.13	37.12	0.00	24.90	22.39	550446.86	0.00	58846.86	259703.25
7527.79	102.19	66.77	0.00	270.18	95.85	129.51	0.00	0.00	19.26	16.42	546492.99	0.00	49522.78	220853.11
7527.85	117.29	59.59	0.00	261.83	98.68	129.52	42.15	0.00	24.51	21.02	563012.10	0.00	61121.27	235070.96
7527.92	125.49	65.99	0.00	261.31	103.40	126.98	47.98	25.64	25.80	29.12	512277.83	0.00	69281.22	269037.57
7527.98	129.32	65.38	0.00	238.96	97.95	122.14	40.80	0.00	27.21	23.85	542685.78	0.00	66914.37	258459.15
7528.05	136.56	68.56	0.00	239.39	94.32	120.49	35.09	25.66	29.85	25.94	583446.06	0.00	63238.45	220134.71
7528.12	131.48	66.98	0.00	245.68	97.02	132.86	45.84	0.00	26.94	20.45	557784.23	0.00	69301.12	257262.51
7528.18	128.80	65.85	0.00	235.11	94.35	129.52	42.07	30.09	30.92	22.17	561833.57	0.00	65823.75	257924.41
7528.25	125.05	97.82	0.00	237.52	91.09	119.28	35.43	0.00	26.45	27.06	558321.92	0.00	65790.67	246134.36
7528.31	137.80	129.49	0.00	245.76	91.80	124.34	40.10	0.00	35.93	26.51	591159.10	0.00	55177.99	209462.13
7528.38	133.41	146.97	0.00	242.38	99.04	129.18	39.80	0.00	31.67	26.86	541322.76	0.00	69986.68	243763.76
7528.44	130.89	105.32	0.00	240.64	94.58	128.58	43.62	29.55	36.91	28.68	543733.12	0.00	69180.69	247083.31
7528.51	140.51	98.64	0.00	234.16	89.99	125.68	0.00	0.00	30.06	25.27	597122.66	0.00	59341.00	219215.25
7528.57	129.44	82.40	0.00	242.45	90.06	129.20	0.00	0.00	34.31	24.39	607568.68	0.00	54960.36	202931.57
7528.64	131.02	81.69	0.00	222.51	90.29	126.75	58.70	0.00	30.10	24.16	599271.11	0.00	54993.69	203317.74
7528.71	135.95	93.07	0.00	254.23	100.88	125.65	51.01	0.00	28.90	25.28	613533.14	0.00	50144.35	190154.07
7528.77	134.43	73.89	0.00	250.07	96.11	137.78	42.63	0.00	32.56	22.87	627958.91	0.00	49736.43	192387.19
7528.84	124.64	64.35	0.00	234.79	102.08	136.63	0.00	0.00	28.31	28.48	632176.36	0.00	41947.05	165949.64
7528.90	119.68	66.67	0.00	248.21	94.36	140.95	0.00	0.00	31.26	22.99	671268.99	0.00	41107.20	161563.57
7528.97	127.46	75.83	0.00	266.44	101.20	139.08	0.00	0.00	33.00	20.87	700245.73	0.00	36848.08	147822.74
7529.03	137.19	97.93	0.00	257.27	98.69	140.79	56.19	0.00	30.17	26.69	628872.44	0.00	51811.57	178770.49
7529.10	131.60	123.07	0.00	263.77	91.12	129.70	0.00	0.00	38.07	28.53	594094.96	0.00	53239.64	207188.56
7529.17	122.77	103.99	0.00	220.20	88.88	110.70	0.00	0.00	33.95	30.38	534019.89	0.00	61931.10	230566.65
7529.23	127.48	96.21	0.00	239.87	90.90	124.73	0.00	0.00	33.28	24.73	553251.12	0.00	69674.57	257742.75
7529.30	127.54	123.70	0.00	222.32	93.54	123.83	0.00	27.33	29.68	21.11	596140.38	0.00	56323.25	206978.17
7529.36	132.29	100.48	0.00	255.75	92.16	120.06	60.76	0.00	33.78	27.53	589676.83	0.00	64436.27	230943.27
7529.43	231.99	78.96	0.00	181.89	76.28	98.09	56.85	39.17	40.79	21.97	539696.26	0.00	45676.78	172206.43
7529.49	369.38	25.72	0.00	237.06	103.18	126.63	66.30	79.55	43.04	27.38	387315.27	0.00	29357.56	155702.06
7529.56	157.20	81.08	0.00	231.53	87.26	115.56	53.06	23.24	24.68	23.30	535504.61	0.00	74599.06	272815.38
7529.62	224.80	40.69	0.00	212.11	80.23	94.83	56.37	51.87	28.50	26.35	484054.45	0.00	29870.38	202092.69
7529.69	115.65	59.82	0.00	268.17	100.93	127.88	0.00	0.00	22.97	20.60	565737.62	0.00	52536.76	241929.17

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7529.76	151.36	66.33	0.00	228.69	93.24	122.73	0.00	0.00	27.04	25.55	562994.65	0.00	59972.97	243358.37
7529.82	132.37	67.82	0.00	255.21	94.68	128.21	39.31	0.00	26.95	23.10	559964.81	0.00	65349.37	274568.75
7529.89	145.48	72.44	0.00	241.02	93.63	118.53	0.00	0.00	27.35	25.03	570341.15	0.00	65501.28	255452.96
7529.95	138.82	77.27	0.00	238.78	94.20	128.89	38.49	0.00	31.11	22.69	605899.58	0.00	57016.32	220412.02
7530.02	145.73	83.10	0.00	258.92	95.27	125.29	45.38	0.00	32.30	29.30	618517.06	0.00	53786.41	210266.71
7530.08	171.85	72.88	0.00	294.17	124.16	155.34	0.00	0.00	28.42	23.27	587855.83	0.00	43822.45	164841.79
7530.15	154.38	83.25	0.00	184.14	69.23	85.94	54.72	0.00	33.60	29.53	515594.13	0.00	49375.08	165073.56
7530.22	132.14	83.00	0.00	238.42	99.06	129.40	49.53	0.00	30.18	23.78	569333.37	0.00	65306.63	255081.70
7530.28	207.73	59.53	0.00	227.00	98.03	123.15	47.45	34.32	22.60	26.17	516100.45	0.00	56519.40	255509.19
7530.35	147.04	82.88	0.00	260.35	97.41	131.86	36.81	0.00	28.16	25.95	551631.39	0.00	62958.38	273318.72
7530.41	154.74	96.37	0.00	259.44	102.06	127.22	49.95	29.13	24.17	25.00	475719.82	0.00	79492.07	310608.07
7530.48	177.32	89.66	0.00	271.75	106.68	130.73	44.78	0.00	25.28	24.42	574535.90	0.00	55171.61	232543.19
7530.54	246.41	57.93	0.00	279.74	109.58	131.18	44.21	35.57	28.10	30.90	502200.19	0.00	56292.67	240305.51
7530.61	141.08	81.27	0.00	238.34	97.38	126.89	48.77	0.00	30.62	24.80	527301.76	0.00	72155.66	292573.05
7530.67	144.46	78.09	0.00	244.60	88.75	123.08	37.85	0.00	26.80	22.96	553262.50	0.00	69439.60	272769.60
7530.74	375.67	40.91	0.00	241.29	94.35	114.36	75.51	67.95	42.63	41.07	478181.94	0.00	29071.90	112689.54
7530.81	159.18	79.28	0.00	249.84	94.83	132.61	36.41	31.37	25.21	25.33	574985.75	0.00	58055.25	235114.29
7530.87	120.70	70.61	0.00	238.18	99.04	127.96	37.12	0.00	25.30	21.76	600739.49	0.00	55239.50	246430.69
7530.94	119.87	64.29	0.00	244.24	93.85	118.36	42.97	22.73	22.74	22.03	553636.05	0.00	63276.96	267776.87
7531.00	132.27	68.91	0.00	302.53	111.35	141.21	53.95	0.00	24.10	28.64	594607.38	0.00	53795.79	219569.20
7531.07	131.68	65.18	0.00	248.89	96.21	129.31	0.00	30.16	29.49	19.43	598084.27	0.00	52367.02	229413.53
7531.13	156.94	54.22	0.00	240.96	90.75	114.28	0.00	0.00	25.86	26.46	573810.74	0.00	49862.57	204989.53
7531.20	98.84	48.44	0.00	277.65	112.60	141.32	0.00	0.00	10.51	0.00	613817.12	0.00	30477.96	151429.67
7531.26	306.10	29.52	0.00	254.68	106.32	110.63	63.28	45.35	25.51	29.57	403728.61	0.00	26568.86	131712.37
7531.33	97.63	39.46	0.00	259.23	108.29	142.91	0.00	0.00	17.90	15.93	612227.92	0.00	28553.26	138618.19
7531.39	129.62	36.46	0.00	236.95	92.80	129.93	0.00	0.00	16.93	0.00	603574.40	0.00	25904.80	123030.92
7531.46	74.13	29.02	0.00	249.49	94.51	126.89	0.00	0.00	15.61	0.00	558507.61	0.00	29156.56	157926.91
7531.52	80.64	39.57	0.00	242.73	100.74	125.87	0.00	0.00	9.97	0.00	566431.92	0.00	35162.34	171076.59
7531.59	105.41	60.67	0.00	237.28	96.90	127.63	0.00	0.00	16.72	18.58	608998.11	0.00	41273.63	187513.58
7531.66	124.09	70.94	0.00	255.85	99.58	127.05	45.90	25.43	24.76	23.13	513431.38	0.00	69228.57	266673.34
7531.72	122.43	76.85	0.00	250.17	96.99	129.66	39.30	0.00	22.69	23.02	530101.84	0.00	67077.78	269102.98
7531.79	126.87	73.80	0.00	256.15	97.25	130.03	43.87	25.55	29.95	19.93	530654.78	0.00	67907.80	268459.78

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7531.85	122.64	76.87	0.00	228.28	86.16	119.80	45.37	0.00	23.66	19.55	539559.38	0.00	67933.24	270588.97
7531.92	162.21	66.48	0.00	200.42	81.46	104.27	0.00	33.11	22.93	24.38	531877.17	0.00	39045.62	152359.70
7531.98	125.18	80.98	0.00	230.29	97.45	123.38	38.19	0.00	24.91	26.09	579239.67	0.00	68783.40	236955.53
7532.05	123.22	77.71	0.00	228.88	90.31	123.00	32.97	22.87	22.90	23.64	551034.96	0.00	65842.39	258972.18
7532.12	126.30	78.64	0.00	251.97	102.19	125.46	39.89	0.00	25.93	21.86	527333.02	0.00	68954.50	269437.72
7532.18	117.37	72.94	0.00	237.78	93.65	129.03	47.12	0.00	23.61	24.20	572788.26	0.00	58385.54	235228.67
7532.25	119.01	76.68	0.00	250.57	94.61	128.02	40.44	0.00	23.65	22.49	620374.20	0.00	50103.19	203921.17
7532.31	122.77	82.62	0.00	253.60	96.49	121.56	52.31	0.00	26.29	23.98	528833.61	0.00	64303.29	254206.66
7532.38	124.78	84.83	0.00	255.09	104.83	127.06	41.97	0.00	28.17	20.24	539270.89	0.00	67191.48	253213.13
7532.44	115.46	85.38	0.00	243.17	94.88	120.20	49.89	0.00	21.25	20.70	592506.77	0.00	50437.51	209752.11
7532.51	114.60	83.71	0.00	247.68	94.03	122.53	39.72	0.00	20.32	21.46	578601.03	0.00	54442.64	224320.82
7532.57	119.39	94.62	0.00	256.84	100.77	137.29	38.18	27.24	25.11	19.77	578230.04	0.00	53148.95	217524.55
7532.64	119.91	90.18	0.00	243.11	95.02	125.50	45.30	0.00	24.12	20.83	579435.87	0.00	52166.28	211231.23
7532.71	116.01	85.96	0.00	246.49	98.22	127.99	37.83	0.00	27.84	21.09	582882.80	0.00	57624.82	229724.09
7532.77	120.97	82.09	0.00	254.85	96.93	134.21	37.77	0.00	28.43	20.05	518326.92	0.00	67277.21	259138.63
7532.84	119.52	68.45	0.00	243.55	94.12	123.28	44.59	27.22	24.43	21.35	522509.31	0.00	64230.08	255937.93
7532.90	121.50	83.12	0.00	249.17	96.00	126.74	37.38	0.00	22.45	25.17	525819.48	0.00	65273.66	256633.98
7532.97	117.20	96.63	0.00	255.00	99.03	131.53	0.00	0.00	28.83	20.42	576936.45	0.00	58955.03	229815.09
7533.03	115.01	112.33	0.00	257.51	97.02	125.42	37.61	0.00	30.89	22.85	559290.82	0.00	60360.27	244182.03
7533.10	115.97	98.01	0.00	251.26	98.57	126.67	0.00	40.53	33.81	22.69	555040.91	0.00	55016.17	218499.30
7533.17	110.73	74.63	0.00	250.77	94.75	127.74	0.00	0.00	18.33	17.20	555180.24	0.00	52632.38	205327.00
7533.23	83.89	60.36	0.00	259.53	94.99	129.20	43.82	0.00	17.39	14.54	527412.57	0.00	38570.78	186431.84
7533.30	80.95	51.30	0.00	239.47	96.22	133.38	0.00	30.50	14.10	0.00	541795.66	0.00	35141.91	166589.38
7533.36	90.34	68.79	0.00	246.83	90.58	128.83	0.00	0.00	17.82	15.06	567713.85	0.00	38231.25	168506.65
7533.43	96.85	77.63	0.00	247.43	91.58	122.43	0.00	0.00	21.80	0.00	578776.50	0.00	39495.58	174858.27
7533.49	110.31	91.76	0.00	249.71	96.34	123.77	0.00	28.09	22.19	20.13	565919.57	0.00	51084.36	203297.24
7533.56	110.91	97.44	0.00	282.75	111.99	149.20	0.00	0.00	23.18	18.25	577773.19	0.00	50198.04	195778.45
7533.62	118.28	92.18	0.00	234.61	92.69	128.03	37.93	27.94	24.93	23.13	554475.05	0.00	61020.11	234149.74
7533.69	121.53	93.13	0.00	243.63	94.00	125.01	37.11	0.00	23.85	24.26	582254.45	0.00	52406.99	210783.12
7533.76	118.22	89.05	0.00	242.06	96.59	121.28	0.00	0.00	28.14	22.51	567441.36	0.00	57675.39	225179.27
7533.82	120.09	98.28	0.00	252.42	94.44	124.11	40.09	0.00	25.83	22.26	504072.28	0.00	73546.52	270551.91
7533.89	125.63	90.50	0.00	255.14	97.99	130.16	0.00	0.00	24.66	24.43	536745.85	0.00	67594.36	243290.95

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7533.95	124.68	80.85	0.00	251.64	95.26	125.79	0.00	32.00	20.54	20.04	559170.93	0.00	56696.78	222055.90
7534.02	114.55	91.57	0.00	228.56	95.93	123.75	44.20	24.55	28.51	22.60	586057.55	0.00	58499.12	231397.42
7534.08	118.44	111.55	0.00	248.25	97.51	119.98	43.21	0.00	29.52	21.25	599714.91	0.00	52519.26	216659.40
7534.15	114.22	102.78	0.00	250.02	93.61	128.78	0.00	0.00	31.96	22.25	606955.68	0.00	54324.91	225672.30
7534.22	113.43	105.95	0.00	248.58	99.53	142.90	0.00	0.00	30.54	19.92	573008.93	0.00	63826.27	253337.98
7534.28	115.70	112.29	0.00	240.92	93.64	128.12	34.21	26.28	28.48	22.57	535282.19	0.00	71273.80	284195.84
7534.35	114.93	122.19	0.00	257.55	99.75	130.47	44.43	0.00	27.66	21.45	576294.38	0.00	58333.52	239316.48
7534.41	111.16	141.66	0.00	245.84	97.88	128.33	0.00	31.61	32.29	26.09	588291.00	0.00	58574.30	247237.32
7534.48	121.26	139.80	0.00	250.33	90.89	124.79	43.29	47.25	31.81	23.85	520627.29	0.00	81792.70	283271.56
7534.54	124.31	130.36	0.00	246.63	100.56	127.33	38.76	0.00	28.08	24.46	544870.28	0.00	73385.31	281426.00
7534.61	103.19	129.08	0.00	271.49	98.63	138.31	41.26	53.13	33.64	19.94	544020.65	0.00	71705.68	277996.93
7534.67	114.53	155.53	0.00	249.59	95.41	122.81	0.00	27.21	24.96	23.98	529334.55	0.00	71413.77	296087.51
7534.74	119.24	114.88	0.00	249.08	97.92	131.41	41.37	23.96	28.96	21.29	561309.50	0.00	71345.94	277549.83
7534.81	116.32	102.75	0.00	248.20	97.42	123.53	33.40	0.00	26.97	23.72	588869.71	0.00	57633.01	247289.31
7534.87	116.21	104.50	0.00	262.45	95.72	122.90	41.62	0.00	24.91	20.79	586118.09	0.00	48812.79	214148.32
7535.07	111.00	142.09	0.00	233.22	92.04	120.46	0.00	0.00	28.62	19.58	555723.80	0.00	62971.17	257262.97
7535.13	117.63	181.68	0.00	251.24	95.27	125.66	36.61	35.23	31.55	23.67	508902.87	0.00	73105.19	288510.79
7535.20	117.47	148.84	0.00	249.17	91.02	122.78	45.28	31.20	27.98	28.53	552432.35	0.00	68380.52	265872.77
7535.26	109.79	141.53	0.00	309.72	116.77	153.75	0.00	51.41	21.07	18.34	577769.28	0.00	69818.30	268248.97
7535.33	123.82	120.77	0.00	274.95	100.81	127.19	36.64	0.00	34.16	29.05	570100.73	0.00	66964.58	270115.28
7535.39	120.06	117.04	0.00	270.10	92.88	127.73	48.77	0.00	31.60	23.25	553980.41	0.00	73937.47	289866.47
7535.46	104.13	114.20	0.00	293.10	107.47	140.20	0.00	34.73	26.45	22.51	526270.38	0.00	78068.34	306776.29
7535.52	119.80	117.60	0.00	230.93	97.01	128.03	40.39	0.00	26.19	23.88	508087.04	0.00	78107.37	319567.72
7535.59	125.76	131.19	0.00	243.52	98.03	126.24	41.52	35.78	32.88	25.04	508762.45	0.00	79382.93	308926.47
7535.66	109.87	120.52	0.00	231.07	85.66	124.07	39.60	0.00	31.13	20.79	574016.54	0.00	57282.52	225407.39
7535.72	105.92	108.25	0.00	237.99	97.33	125.14	0.00	0.00	30.70	21.01	577872.60	0.00	53084.76	230554.21
7535.79	112.06	143.51	0.00	233.73	90.64	128.73	43.29	32.32	30.84	22.18	564476.90	0.00	57946.15	261491.54
7535.85	117.63	149.60	0.00	257.37	91.91	123.67	35.21	32.20	23.43	23.41	544472.05	0.00	65251.11	283470.34
7535.92	115.48	155.20	0.00	236.27	96.98	124.16	0.00	33.67	24.76	21.57	573177.24	0.00	59763.79	260716.85
7535.98	112.47	123.28	0.00	234.19	91.32	122.81	36.39	0.00	28.40	20.83	516884.82	0.00	67714.91	306700.63
7536.05	109.96	113.33	0.00	262.71	97.07	124.28	47.47	30.61	25.84	20.14	531738.32	0.00	67775.27	309823.91
7536.12	111.20	117.02	0.00	268.06	98.23	127.79	36.27	34.37	28.51	24.37	562265.69	0.00	59798.29	271900.11

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7536.18	105.67	123.11	0.00	262.30	96.94	132.57	59.64	0.00	28.44	22.45	592912.59	0.00	55029.37	236813.80
7536.25	110.74	111.34	0.00	257.44	100.31	128.55	44.07	47.46	30.27	22.55	546987.86	0.00	65424.79	285960.55
7536.31	107.76	115.99	0.00	250.29	92.50	123.77	35.00	28.17	24.87	20.13	566848.72	0.00	59334.13	269289.93
7536.38	110.13	121.28	0.00	241.81	95.25	126.11	34.62	0.00	33.86	25.31	542272.35	0.00	68742.02	300509.91
7536.44	97.53	129.61	0.00	293.77	113.51	148.88	48.78	0.00	24.17	17.41	628668.62	0.00	50289.32	226149.30
7536.51	105.70	108.54	0.00	265.32	95.65	132.58	35.81	29.69	28.41	21.99	513824.83	0.00	67528.22	297736.53
7536.57	116.32	132.42	0.00	249.97	95.10	128.57	42.46	0.00	27.11	24.68	527460.98	0.00	67154.20	290342.19
7536.64	111.53	139.81	0.00	246.29	91.28	126.25	0.00	23.91	29.06	21.80	529981.05	0.00	66325.52	282658.52
7536.71	114.36	154.61	0.00	266.66	100.60	130.29	41.88	33.49	28.60	16.90	554707.03	0.00	60659.23	254858.58
7536.77	112.09	140.35	0.00	260.96	95.31	122.15	38.41	41.59	28.70	26.25	554889.47	0.00	60598.19	260462.87
7536.84	111.51	146.88	0.00	245.56	94.26	128.51	51.16	30.52	32.99	22.66	545506.97	0.00	62354.10	275005.48
7536.90	111.07	139.17	0.00	252.36	96.19	125.03	45.27	39.11	33.65	20.41	570942.31	0.00	59213.97	250488.05
7536.97	111.59	128.92	0.00	219.06	87.54	118.50	0.00	0.00	31.43	31.13	619183.18	0.00	54529.79	213067.06
7537.07	113.30	166.57	0.00	296.41	105.60	141.97	44.58	39.36	31.32	26.23	581847.14	0.00	64956.48	229031.94
7537.13	117.60	154.23	0.00	256.03	103.48	136.79	54.33	40.64	33.55	23.00	531227.25	0.00	66994.51	255028.64
7537.20	116.05	145.35	0.00	249.63	90.20	122.88	35.15	35.09	29.32	24.78	542801.83	0.00	65191.62	266267.12
7537.26	108.76	110.11	0.00	229.38	90.39	123.29	42.88	0.00	27.70	20.88	565023.00	0.00	58809.02	242358.26
7537.33	122.56	138.48	0.00	226.26	91.15	128.15	41.78	0.00	34.50	28.71	565205.54	0.00	60762.47	251468.00
7537.39	116.48	143.17	0.00	235.50	89.37	120.74	46.67	0.00	38.06	25.26	567703.27	0.00	59589.12	242355.05
7537.46	123.21	136.66	0.00	237.75	90.86	123.02	43.50	28.23	38.76	25.46	485225.74	0.00	77043.31	282008.72
7537.52	122.33	136.07	0.00	239.87	91.92	127.03	48.70	0.00	40.56	22.72	530798.80	0.00	73344.61	269287.48
7537.59	120.54	133.70	0.00	245.12	91.29	118.44	41.41	0.00	35.73	26.68	561028.72	0.00	59972.16	239948.87
7537.66	114.85	162.81	0.00	252.98	92.10	126.29	50.97	60.35	32.06	24.07	552518.19	0.00	56165.28	215985.64
7537.72	122.15	216.15	0.00	240.23	89.34	128.47	37.14	41.03	32.06	26.86	577616.45	0.00	57555.43	229087.40
7537.79	118.44	184.15	0.00	257.06	95.48	134.24	49.66	38.36	41.90	21.68	577009.63	0.00	61477.51	245693.08
7537.85	114.55	197.85	0.00	228.08	85.10	125.78	42.40	0.00	43.33	20.93	578563.37	0.00	54166.63	208416.98
7537.92	125.96	246.13	0.00	253.76	89.05	129.35	46.51	50.66	35.01	23.77	584707.38	0.00	57016.93	219074.62
7537.98	122.00	191.21	0.00	265.60	93.30	135.22	0.00	49.98	39.01	30.01	549202.39	0.00	73117.93	260730.26
7538.05	119.98	218.88	0.00	253.50	103.43	126.84	0.00	72.17	51.07	26.39	528847.93	0.00	78682.72	253108.42
7538.12	124.53	229.61	0.00	250.36	94.76	121.26	46.74	50.33	43.19	27.24	553139.93	0.00	67325.58	249103.69
7538.18	96.65	206.69	0.00	259.66	96.41	126.89	0.00	70.08	50.18	24.99	581927.25	0.00	47571.93	168189.19
7538.25	121.19	245.31	0.00	236.21	88.36	125.45	0.00	0.00	33.71	21.58	613301.81	0.00	53487.98	212845.58

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7538.31	118.41	236.51	0.00	238.84	94.20	125.48	0.00	40.45	35.12	26.13	592573.30	0.00	59948.23	228820.17
7538.38	122.88	281.08	0.00	226.46	93.55	122.91	37.54	0.00	38.94	23.55	587487.92	0.00	52571.01	211034.97
7538.44	121.00	207.23	0.00	244.70	103.57	130.03	0.00	0.00	41.81	22.02	587078.48	0.00	57421.48	231669.84
7538.51	116.95	188.73	0.00	233.46	93.88	129.29	48.58	0.00	40.41	24.00	682182.84	0.00	34045.93	141998.02
7538.57	113.86	174.78	0.00	277.75	103.96	139.26	0.00	0.00	37.87	24.78	588203.98	0.00	59266.70	228411.62
7538.64	121.70	187.13	0.00	251.13	93.73	127.73	51.89	43.67	41.16	25.78	590190.96	0.00	58293.95	217539.21
7538.71	124.84	187.47	0.00	261.16	96.04	124.54	55.82	0.00	37.91	25.17	580320.13	0.00	62344.93	237692.94
7538.77	119.27	133.04	0.00	254.59	99.72	128.64	44.53	30.58	29.50	29.06	613150.83	0.00	54269.21	224407.59
7538.84	118.37	118.05	0.00	252.23	98.52	125.40	49.12	0.00	36.06	23.30	638818.12	0.00	46190.49	213081.40
7538.90	117.09	117.81	0.00	235.19	94.44	124.92	38.05	37.65	36.00	25.45	561985.67	0.00	64167.17	270544.61
7538.97	116.76	130.13	0.00	235.37	93.03	129.25	37.21	29.25	33.71	21.16	551277.12	0.00	65448.88	268976.16
7539.03	116.43	124.61	0.00	255.06	92.31	128.12	38.20	52.54	31.89	28.01	593819.55	0.00	57017.83	222196.74
7539.10	106.93	130.15	0.00	270.69	101.75	135.37	39.33	0.00	34.21	20.25	569148.19	0.00	58553.86	254801.60
7539.17	124.49	186.08	0.00	246.81	97.84	129.66	42.96	28.09	38.13	22.48	612425.26	0.00	56703.21	206430.01
7539.23	113.94	167.47	0.00	242.08	89.94	120.26	37.78	0.00	35.12	22.74	599549.51	0.00	51429.12	216415.81
7539.30	115.73	135.49	0.00	236.53	92.76	119.93	49.11	31.83	34.07	19.54	571047.94	0.00	58470.02	255952.00
7539.36	111.88	132.62	0.00	275.96	100.61	141.68	39.77	32.90	34.26	19.53	538530.22	0.00	64367.25	274731.80
7539.43	132.00	194.13	0.00	259.62	94.00	128.04	58.77	62.39	35.08	21.50	554306.67	0.00	62898.44	229801.15
7539.49	120.23	167.07	0.00	266.86	99.73	126.15	41.92	0.00	40.33	22.10	625178.04	0.00	41492.15	181268.01
7539.56	112.66	135.80	0.00	255.26	92.33	126.36	37.49	28.28	31.94	18.84	578398.46	0.00	49090.49	232647.02
7539.62	146.44	99.93	0.00	294.08	112.75	144.72	0.00	50.92	27.92	0.00	692316.30	0.00	24487.36	83686.29
7539.69	136.49	219.50	0.00	244.50	96.66	127.48	51.77	0.00	30.83	21.89	722156.44	0.00	26644.67	121502.41
7539.76	150.34	43.84	0.00	253.89	94.25	128.39	0.00	44.09	41.12	27.67	642008.56	0.00	55352.01	85294.11
7539.82	141.75	246.00	0.00	229.54	87.42	125.00	46.60	0.00	44.35	23.37	530149.34	0.00	59922.65	235121.56
7539.89	122.92	235.21	0.00	251.74	95.18	132.40	42.67	0.00	44.43	15.19	512812.82	0.00	68392.42	261666.91
7539.95	110.65	176.93	0.00	204.41	87.36	118.40	53.83	33.99	54.84	20.22	463982.56	0.00	52514.66	199649.89
7540.02	113.03	213.17	0.00	254.96	106.61	134.60	0.00	0.00	37.86	0.00	714341.39	0.00	20840.85	107322.39
7540.07	120.72	325.92	0.00	252.70	93.42	136.67	0.00	0.00	44.86	23.93	661067.35	0.00	34668.47	151816.74
7540.13	133.36	321.49	0.00	255.89	100.78	140.58	0.00	37.96	38.34	17.89	663187.84	0.00	32218.12	149271.60
7540.20	115.99	236.97	0.00	278.14	98.29	127.44	0.00	67.31	40.16	20.20	655405.64	0.00	34108.34	152811.65
7540.26	123.17	247.13	0.00	245.70	104.17	125.98	0.00	0.00	35.32	21.88	680404.11	0.00	26860.48	128497.61
7540.33	118.77	218.32	0.00	277.20	102.37	142.99	0.00	0.00	50.34	0.00	675896.32	0.00	24277.27	119920.11

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7540.39	126.24	214.76	0.00	263.80	104.18	150.83	0.00	0.00	43.63	0.00	707458.98	0.00	30316.02	123486.55
7540.46	138.37	245.35	0.00	251.47	95.73	128.34	48.61	0.00	46.60	23.33	564669.01	0.00	45052.21	190315.23
7540.52	115.40	288.30	0.00	213.29	82.59	118.67	0.00	0.00	51.10	16.86	640151.21	0.00	28784.20	132594.24
7540.59	104.49	164.13	0.00	251.29	102.04	136.31	0.00	0.00	57.97	27.88	672270.40	0.00	18871.41	93204.75
7540.66	104.66	177.96	0.00	248.58	103.28	126.52	0.00	0.00	47.34	0.00	623312.45	0.00	27561.12	141037.72
7540.72	123.02	294.00	0.00	227.25	90.99	126.92	0.00	50.30	44.82	23.84	648955.71	0.00	29617.16	141419.50
7540.79	122.25	287.10	0.00	255.62	90.38	131.26	0.00	0.00	47.87	0.00	672475.27	0.00	26106.15	120507.49
7540.85	108.91	162.43	0.00	232.36	86.12	130.45	52.72	0.00	45.08	18.00	620812.95	0.00	31947.02	156018.78
7540.92	118.67	217.41	0.00	241.93	84.89	122.65	0.00	50.17	49.80	22.92	608900.57	0.00	40680.31	168496.43
7540.98	121.48	203.99	0.00	275.03	97.08	129.92	0.00	93.17	54.38	18.84	662896.97	0.00	33205.51	125523.23
7541.05	119.43	215.79	0.00	263.45	95.20	130.42	0.00	66.44	43.19	0.00	659477.28	0.00	28329.64	146145.12
7541.12	99.36	247.53	0.00	298.67	113.11	140.37	0.00	0.00	40.45	0.00	557502.82	0.00	39717.38	200279.80
7541.18	114.68	201.91	0.00	264.17	85.03	119.60	0.00	98.79	49.31	15.61	544939.15	0.00	39667.97	206198.05
7541.25	119.05	159.40	0.00	301.29	90.08	130.29	0.00	149.72	40.05	19.19	594530.24	0.00	38380.25	179731.71
7541.31	105.73	142.85	0.00	245.22	92.04	122.88	0.00	57.92	30.15	17.91	614647.96	0.00	29858.69	165625.41
7541.38	115.43	160.72	0.00	270.47	95.01	128.30	0.00	50.12	37.86	0.00	633467.11	0.00	26624.53	170747.64
7541.44	92.76	87.79	0.00	284.84	106.68	140.36	0.00	40.79	29.97	0.00	535937.42	0.00	29210.47	204829.59
7541.51	43.04	0.00	0.00	262.55	101.95	125.96	0.00	0.00	0.00	0.00	575832.61	0.00	3114.39	93926.27
7541.57	48.43	0.00	0.00	269.82	97.17	126.03	0.00	0.00	7.49	0.00	607037.17	0.00	2541.27	23875.87
7541.64	43.13	0.00	0.00	267.17	101.56	125.58	0.00	0.00	0.00	0.00	593875.35	0.00	2492.01	13340.77
7541.71	37.91	0.00	0.00	284.12	96.34	132.03	0.00	0.00	0.00	0.00	592461.37	0.00	2368.96	14211.05
7541.77	36.84	0.00	0.00	266.58	97.50	129.16	0.00	0.00	0.00	0.00	592994.38	0.00	3361.54	16451.95
7541.84	37.52	0.00	0.00	284.88	101.36	134.87	0.00	29.98	0.00	0.00	594199.41	0.00	1968.30	22545.20
7541.90	33.84	0.00	0.00	243.07	95.41	128.76	0.00	0.00	0.00	0.00	589374.12	0.00	2388.52	25564.90
7541.97	33.20	0.00	0.00	274.09	99.96	124.77	0.00	0.00	7.25	0.00	611996.88	0.00	3619.65	22619.68
7542.03	32.81	0.00	0.00	259.52	100.08	125.50	0.00	0.00	0.00	0.00	624943.67	0.00	4024.56	36156.41
7542.10	42.15	0.00	0.00	266.11	97.08	135.18	0.00	0.00	0.00	0.00	564747.51	0.00	4430.04	111408.34
7542.17	43.59	15.76	0.00	235.74	101.48	123.24	0.00	0.00	0.00	0.00	547224.15	0.00	5230.68	189587.71
7542.23	45.23	31.95	0.00	265.42	94.24	135.49	0.00	0.00	0.00	0.00	654767.89	0.00	5870.65	161563.01
7542.30	55.51	82.26	0.00	260.84	102.07	133.54	0.00	0.00	23.04	0.00	644642.46	0.00	10200.27	110635.64
7542.36	116.55	278.49	0.00	256.25	99.61	136.35	0.00	0.00	36.51	0.00	649232.75	0.00	34673.35	129938.06
7542.43	126.09	279.35	0.00	269.08	85.95	122.47	45.89	59.44	36.95	20.35	611604.93	0.00	38194.33	190734.18

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7542.49	113.32	259.13	0.00	261.46	93.07	120.74	0.00	82.88	34.88	0.00	653601.84	0.00	30388.58	170579.66
7542.56	123.23	238.40	0.00	247.12	92.44	128.34	0.00	56.84	43.49	16.62	615562.76	0.00	37441.23	183200.91
7542.62	129.44	294.11	0.00	261.26	91.58	127.22	0.00	59.07	40.43	0.00	680276.92	0.00	28302.13	136915.15
7542.69	108.11	235.36	0.00	268.67	98.16	127.65	0.00	72.10	35.71	18.78	653501.37	0.00	29396.52	179151.26
7542.76	81.04	136.78	0.00	185.83	84.01	108.43	0.00	0.00	44.47	0.00	584178.67	0.00	19116.08	110554.03
7542.82	120.36	260.02	0.00	267.92	106.69	142.94	0.00	0.00	39.46	21.81	669649.37	0.00	28345.93	154658.62
7542.89	132.09	220.35	0.00	267.09	101.25	129.14	0.00	51.94	38.55	0.00	557745.56	0.00	53690.87	224500.93
7542.95	87.93	89.36	0.00	261.98	98.87	125.78	39.06	50.87	23.21	13.91	524222.86	0.00	28856.33	194014.63
7543.07	121.19	250.64	0.00	242.03	84.91	118.02	0.00	43.09	42.31	21.79	537923.22	0.00	54690.12	246284.48
7543.13	123.46	272.27	0.00	237.96	87.39	120.56	49.75	42.21	37.69	17.36	583471.26	0.00	47504.92	202805.59
7543.20	106.67	136.05	0.00	277.66	100.46	129.37	0.00	0.00	21.88	0.00	563631.39	0.00	25980.98	147460.88
7543.26	127.07	178.61	0.00	267.47	89.60	129.32	0.00	53.72	34.93	16.82	533172.59	0.00	39895.66	174642.31
7543.33	124.30	132.33	0.00	252.59	91.24	118.16	0.00	0.00	37.62	15.79	530301.07	0.00	45328.35	195437.46
7543.39	129.07	240.01	0.00	224.40	87.47	118.02	43.78	0.00	44.05	18.63	566179.65	0.00	43709.20	198093.19
7543.46	117.53	231.03	0.00	236.09	87.90	117.78	41.21	0.00	38.16	18.36	582009.08	0.00	49104.41	221487.73
7543.52	103.65	157.12	0.00	227.90	94.61	116.18	45.25	0.00	43.60	19.38	522782.01	0.00	39658.10	184987.47
7543.59	129.30	118.37	0.00	266.51	88.96	118.78	0.00	0.00	34.09	19.54	571085.57	0.00	43936.35	231942.70
7543.66	111.86	185.58	0.00	238.15	91.14	117.69	0.00	55.74	54.10	21.14	552007.05	0.00	43962.86	224449.05
7543.72	110.35	238.62	0.00	225.93	87.93	117.79	0.00	33.89	43.64	17.39	543195.68	0.00	46047.50	238838.30
7543.79	118.91	195.61	0.00	234.68	96.23	123.07	0.00	44.43	50.87	18.70	517549.18	0.00	47298.86	246547.82
7543.85	111.51	172.95	0.00	234.76	87.31	123.04	0.00	57.89	46.00	14.61	552094.45	0.00	44366.47	210433.38
7543.92	118.91	169.44	0.00	281.65	92.68	130.57	0.00	57.70	48.54	0.00	565467.32	0.00	43973.57	204348.41
7543.98	108.21	134.13	0.00	224.32	90.80	133.18	0.00	0.00	43.83	0.00	580584.84	0.00	29826.49	176158.76
7544.05	106.81	169.64	0.00	242.10	92.98	120.38	0.00	39.16	50.22	16.03	575603.43	0.00	41964.53	200648.25
7544.12	96.99	169.13	0.00	242.98	89.98	113.71	0.00	41.26	40.19	0.00	570242.84	0.00	39729.35	215275.41
7544.18	96.86	212.13	0.00	249.10	93.34	122.67	49.69	0.00	49.32	22.59	560728.65	0.00	39644.05	250664.59
7544.25	96.62	170.44	0.00	264.85	97.33	131.65	43.65	0.00	39.86	0.00	604816.54	0.00	31442.83	233434.55
7544.31	151.12	141.32	0.00	260.65	97.67	131.35	0.00	34.29	46.65	19.90	567307.45	0.00	36124.84	225939.19
7544.38	440.07	89.25	0.00	286.35	116.80	132.86	70.75	73.41	42.31	32.27	439126.14	0.00	32339.71	164250.71
7544.44	318.06	96.19	0.00	298.51	116.92	144.85	0.00	52.07	46.21	28.06	547514.87	0.00	27388.36	154325.92
7544.51	170.37	114.61	0.00	263.81	97.53	127.40	0.00	38.87	44.99	17.09	585239.17	0.00	33825.20	204509.45
7544.57	222.66	140.85	0.00	251.66	105.92	133.67	0.00	53.79	46.86	0.00	556543.57	0.00	31455.46	182896.31

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7544.64	176.98	159.00	0.00	269.92	107.00	127.33	58.35	0.00	26.00	18.37	587820.77	0.00	27482.50	201404.09
7544.71	150.97	158.22	0.00	263.18	102.65	128.71	0.00	37.24	40.68	18.70	613006.28	0.00	30510.21	201875.27
7544.77	225.48	120.80	0.00	248.26	100.58	137.10	0.00	0.00	42.66	23.84	476991.73	0.00	44467.00	258602.15
7544.84	205.63	91.41	0.00	248.48	104.87	121.03	56.38	35.00	40.73	22.14	504654.27	0.00	43840.55	244050.70
7544.90	265.19	86.24	0.00	261.82	98.21	128.52	58.82	33.41	39.96	28.59	496515.61	0.00	29283.38	166346.54
7544.97	175.61	78.47	0.00	246.20	99.13	131.53	0.00	33.49	39.50	21.97	553248.63	0.00	42853.56	242757.04
7545.07	151.60	124.73	0.00	264.88	103.39	139.76	50.20	0.00	34.01	17.05	508632.22	0.00	50280.26	272933.44
7545.13	124.83	262.40	0.00	219.46	86.19	117.48	48.24	27.82	46.49	20.05	523804.46	0.00	58310.80	267264.76
7545.20	117.36	217.34	0.00	244.34	88.80	128.78	47.57	0.00	53.73	16.15	534490.26	0.00	51946.23	261061.53
7545.26	120.92	234.37	0.00	240.51	84.29	119.61	46.86	0.00	45.73	19.63	558632.17	0.00	45858.82	234537.27
7545.33	107.54	221.52	0.00	239.04	91.05	129.25	44.99	0.00	45.08	14.08	566893.47	0.00	42275.45	227240.13
7545.39	125.58	321.24	0.00	232.21	89.53	122.05	40.42	0.00	35.67	16.67	556878.47	0.00	42332.35	228194.79
7545.46	119.92	125.59	0.00	254.55	90.89	128.63	0.00	34.25	20.99	0.00	547890.34	0.00	16076.64	162957.71
7545.52	182.93	113.79	0.00	268.39	95.55	131.51	51.61	0.00	28.67	0.00	481550.93	0.00	23077.56	180366.53
7545.59	218.64	196.49	0.00	271.77	97.55	123.32	60.00	32.89	42.07	19.26	454944.16	0.00	42191.77	177164.37
7545.66	174.57	251.26	0.00	236.97	88.16	121.80	62.42	28.73	43.07	20.22	512355.79	0.00	38048.89	176481.01
7545.72	108.67	317.99	0.00	240.13	93.61	119.09	41.34	0.00	48.46	19.12	578124.49	0.00	43695.22	253197.89
7545.79	105.65	316.39	0.00	224.27	90.58	125.60	0.00	0.00	49.05	18.17	596391.06	0.00	41818.45	202958.80
7545.85	107.23	289.37	0.00	240.59	95.79	120.69	48.71	48.31	44.49	15.41	567657.29	0.00	43684.64	220021.10
7545.92	98.54	295.40	0.00	242.70	88.28	120.34	0.00	48.88	43.80	16.30	540096.50	0.00	41686.39	269196.68
7545.98	97.14	275.26	0.00	258.20	98.13	127.92	0.00	46.07	37.64	13.82	545056.84	0.00	41362.74	265895.13
7546.05	83.22	208.31	0.00	216.32	89.06	122.13	0.00	0.00	48.90	17.65	493924.70	0.00	37315.82	195728.58
7546.12	94.20	244.23	0.00	245.90	82.22	122.06	0.00	50.91	49.50	19.84	558110.19	0.00	39125.38	247136.47
7546.18	106.78	320.28	0.00	250.84	90.08	121.44	0.00	51.92	41.43	19.94	589496.12	0.00	35799.41	216624.46
7546.25	111.99	308.24	0.00	237.42	92.39	120.54	44.58	47.89	40.27	15.83	544022.89	0.00	43283.74	233696.30
7546.31	120.85	265.34	0.00	256.67	86.80	117.11	0.00	75.16	35.55	16.37	568643.37	0.00	34675.86	161273.04
7546.38	117.17	273.11	0.00	246.91	90.56	119.77	0.00	61.79	31.48	15.01	595805.61	0.00	29152.27	179822.66
7546.44	104.65	269.07	0.00	265.93	93.06	129.69	0.00	68.13	30.04	0.00	669982.33	0.00	19005.81	141539.15
7546.51	105.68	276.44	0.00	267.61	109.34	151.55	0.00	60.28	33.52	0.00	717252.01	0.00	13485.63	105491.91
7546.57	109.71	254.33	0.00	233.85	85.27	123.76	0.00	0.00	43.18	16.77	645902.01	0.00	24985.36	164711.72
7546.64	94.62	258.60	0.00	272.21	90.93	129.58	0.00	68.60	54.21	0.00	650961.24	0.00	26176.74	160400.58
7546.71	120.98	356.77	0.00	258.33	103.18	135.30	0.00	84.60	45.77	22.91	672925.64	29981.44	22957.60	109808.18

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7546.77	123.45	365.01	0.00	282.73	92.31	125.61	46.90	149.13	47.69	21.52	514764.28	0.00	61308.56	278195.36
7546.84	94.52	263.76	0.00	276.23	103.15	135.90	0.00	0.00	35.05	0.00	729579.02	42915.30	13776.78	117105.20
7546.90	97.76	238.00	0.00	287.92	101.98	138.03	0.00	0.00	50.71	0.00	698866.17	0.00	16216.06	110215.03
7546.97	110.96	378.25	0.00	440.42	85.17	125.00	77.24	862.43	63.75	19.40	544068.62	0.00	45118.18	196546.78
7547.03	103.31	300.20	0.00	264.90	90.20	124.68	0.00	218.25	45.96	16.92	562444.20	0.00	42311.24	242043.63
7547.10	103.06	353.30	0.00	249.15	86.05	122.92	44.64	49.78	41.82	13.63	550228.39	0.00	38577.60	255724.03
7547.17	100.79	240.69	0.00	225.49	92.28	119.39	0.00	0.00	32.95	0.00	584971.16	0.00	31151.71	201624.40
7547.23	96.91	208.31	0.00	232.80	91.24	122.10	0.00	55.01	45.05	16.49	556855.61	0.00	36087.73	245284.71
7547.30	107.98	358.55	0.00	255.40	90.84	130.76	46.38	53.03	36.07	16.43	607687.54	0.00	34676.47	227604.70
7547.36	112.04	341.55	0.00	298.91	86.95	126.59	0.00	222.19	58.06	20.57	594129.34	0.00	40450.70	213385.07
7547.43	96.97	220.90	0.00	245.78	93.53	129.25	47.45	96.27	56.29	14.48	610022.98	0.00	34832.89	231142.34
7547.49	103.77	358.48	0.00	244.10	89.44	125.70	0.00	81.71	49.24	17.35	575181.43	0.00	37931.11	255227.46
7547.56	100.60	223.21	0.00	270.18	86.18	111.52	55.58	228.93	46.89	18.30	532610.70	0.00	39828.51	230642.30
7547.62	90.26	215.68	0.00	245.47	86.81	127.67	46.43	69.96	47.17	14.58	576852.57	0.00	37608.83	269395.71
7547.69	76.88	199.02	0.00	262.30	91.14	123.00	42.90	52.80	41.50	13.78	582214.96	0.00	30400.28	276197.16
7547.76	86.93	191.35	0.00	278.92	92.23	119.58	0.00	173.41	47.79	14.82	584515.01	0.00	31320.09	274880.77
7547.82	99.97	215.35	0.00	350.79	95.27	120.86	0.00	402.13	48.88	17.32	602897.46	0.00	37167.20	241123.19
7547.89	85.89	157.39	0.00	243.77	92.48	122.99	0.00	0.00	38.40	15.56	586869.42	0.00	32228.91	273763.22
7547.95	96.06	331.72	0.00	241.22	92.75	117.50	0.00	67.52	42.78	0.00	586931.87	0.00	38526.00	268735.57
7548.02	98.53	267.86	0.00	230.45	86.73	115.88	0.00	48.78	53.73	17.67	547937.84	0.00	42981.08	259116.12
7548.08	93.83	261.85	0.00	257.04	87.67	119.25	41.75	109.00	43.39	19.17	542452.41	0.00	44236.75	295295.99
7548.15	108.10	410.96	0.00	247.31	84.55	120.64	44.69	55.67	59.44	17.91	561236.58	0.00	47759.49	260253.98
7548.22	113.89	193.09	0.00	235.64	87.89	124.53	0.00	0.00	44.04	16.82	546755.04	0.00	41576.76	283830.03
7548.28	105.26	281.11	0.00	250.76	95.91	123.56	0.00	0.00	42.91	18.10	560948.53	0.00	43028.95	287697.76
7548.35	110.50	340.79	0.00	218.44	94.07	117.38	50.14	0.00	51.04	15.34	547966.42	0.00	44147.70	259297.54
7548.41	86.13	196.23	0.00	227.51	92.57	131.28	0.00	0.00	39.95	16.75	555001.64	0.00	36987.13	292401.09
7548.48	80.25	288.70	0.00	244.99	90.01	120.72	0.00	26.60	36.31	13.54	571190.99	0.00	28359.75	309145.00
7548.54	81.81	262.18	0.00	248.34	90.16	121.39	43.44	30.62	39.88	12.30	558261.86	0.00	28774.77	304350.44
7548.61	78.51	231.00	0.00	241.38	89.85	124.59	0.00	42.33	30.94	12.89	564472.08	0.00	28584.52	295513.07
7548.67	88.02	223.15	0.00	249.58	90.76	127.37	0.00	29.80	33.84	16.11	565921.11	0.00	35343.49	279233.02
7548.74	66.87	196.88	0.00	240.15	88.37	120.75	0.00	38.19	22.99	0.00	572208.71	0.00	26667.22	305672.47
7548.81	77.93	231.80	0.00	242.25	89.62	114.68	31.22	0.00	27.32	11.92	568682.19	0.00	29590.73	302657.31

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7548.87	87.93	190.75	0.00	225.97	90.73	119.67	43.84	0.00	34.22	14.97	572757.28	0.00	36262.47	273490.78
7548.94	90.25	129.53	0.00	252.63	99.83	138.14	0.00	0.00	35.07	14.38	587116.67	0.00	30123.43	264211.95
7549.07	107.38	141.27	0.00	245.68	103.19	134.28	0.00	0.00	42.35	0.00	670897.09	27966.79	24763.19	150708.91
7549.13	88.89	153.54	0.00	252.16	95.13	133.23	0.00	0.00	27.48	0.00	620632.05	0.00	26056.17	191486.15
7549.20	90.22	173.46	0.00	225.83	89.06	113.42	37.40	0.00	30.17	0.00	523160.43	0.00	37238.11	289553.67
7549.26	108.50	148.26	0.00	237.21	90.51	123.30	0.00	0.00	39.79	16.56	526137.31	0.00	46653.41	298527.77
7549.33	107.79	234.18	0.00	240.19	99.05	124.04	36.95	0.00	37.93	14.47	538201.32	0.00	46379.68	308423.42
7549.39	101.80	164.09	0.00	240.19	93.90	125.32	36.21	22.08	36.48	17.39	517028.48	0.00	44714.00	305023.86
7549.46	92.44	91.27	0.00	256.15	90.70	116.56	0.00	28.22	39.05	15.04	496570.93	0.00	43142.11	268135.53
7549.52	89.63	112.59	0.00	246.15	93.12	123.06	33.52	0.00	31.53	15.78	564249.07	0.00	37269.96	280167.38
7549.59	64.21	175.79	0.00	289.13	103.60	142.82	0.00	0.00	18.96	0.00	591113.58	0.00	23900.09	285769.28
7549.66	53.66	121.78	0.00	238.12	91.97	115.32	0.00	0.00	18.92	0.00	594703.72	0.00	18656.60	291189.83
7549.72	66.95	138.83	0.00	211.95	80.50	122.13	0.00	0.00	28.37	0.00	633909.66	0.00	18737.20	219482.26
7549.79	84.26	153.73	0.00	236.08	89.40	126.26	0.00	0.00	28.29	0.00	630375.39	0.00	26211.34	233676.37
7549.85	92.70	254.28	0.00	251.54	93.40	128.07	35.09	0.00	30.83	0.00	569714.91	0.00	32592.63	287971.48
7549.92	87.07	167.66	0.00	240.14	98.13	123.52	0.00	0.00	33.37	16.49	584246.45	0.00	31857.50	259293.57
7549.98	93.05	110.98	0.00	262.35	92.84	124.57	0.00	0.00	31.15	13.07	582075.86	0.00	35621.49	285917.50
7550.05	94.75	198.34	0.00	246.08	84.78	120.56	38.10	34.38	29.57	12.20	558794.07	0.00	33793.35	273181.90
7550.12	128.18	228.94	0.00	255.15	99.82	120.60	0.00	51.38	48.22	17.68	518583.74	0.00	36301.21	256230.02
7550.18	94.34	200.60	0.00	234.75	77.93	122.08	0.00	32.35	32.99	14.82	589928.36	0.00	31564.38	231344.75
7550.25	88.13	107.74	0.00	239.77	93.54	124.88	0.00	0.00	33.40	0.00	584425.77	0.00	33801.48	269589.78
7550.31	66.10	118.02	0.00	255.29	103.56	136.32	0.00	0.00	24.90	0.00	602876.38	0.00	26474.08	283431.74
7550.38	82.78	179.82	0.00	244.67	86.93	122.27	0.00	33.40	34.69	14.85	575314.28	0.00	27379.71	292452.28
7550.44	55.88	83.55	0.00	287.91	95.21	127.61	0.00	98.56	24.00	0.00	625975.53	0.00	13966.78	243469.92
7550.51	72.20	110.20	0.00	238.47	94.68	123.20	0.00	0.00	24.69	0.00	635945.57	0.00	20903.31	241993.61
7550.57	121.90	283.56	0.00	289.60	89.14	122.54	0.00	125.72	44.30	19.72	543902.36	0.00	42399.58	254241.01
7550.64	89.20	94.98	0.00	253.24	95.24	119.15	0.00	0.00	41.80	17.96	572513.39	0.00	31512.48	251122.65
7550.71	94.08	151.98	0.00	245.06	95.13	122.75	0.00	0.00	27.34	0.00	623223.51	0.00	23566.12	212665.25
7550.77	75.04	147.10	0.00	235.62	88.48	120.45	0.00	31.78	25.79	0.00	606057.37	0.00	24172.92	278310.87
7550.84	78.91	157.46	0.00	284.93	96.77	133.40	0.00	0.00	28.90	0.00	647189.13	0.00	24787.34	213266.67
7550.90	99.80	211.25	0.00	246.52	91.32	118.67	39.22	40.68	38.15	13.50	632491.65	0.00	26501.66	208202.90
7550.97	130.32	266.73	0.00	348.11	82.43	114.59	54.23	340.36	43.86	17.72	570911.69	0.00	45989.90	240989.35

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7551.03	40.46	33.67	0.00	296.84	111.41	139.29	0.00	0.00	10.01	0.00	649602.75	0.00	7122.45	131282.25
7551.10	32.28	0.00	0.00	277.05	105.83	147.47	0.00	0.00	0.00	0.00	647890.41	0.00	2503.34	36896.01
7551.17	31.73	0.00	0.00	264.60	102.56	127.86	0.00	0.00	0.00	0.00	564458.91	0.00	5047.22	39376.45
7551.23	28.77	0.00	0.00	264.19	95.86	122.46	0.00	0.00	0.00	0.00	559649.00	0.00	3875.12	35038.68
7551.30	25.71	0.00	0.00	275.25	97.99	129.18	0.00	0.00	0.00	0.00	587803.81	0.00	0.00	26303.97
7551.36	32.94	0.00	0.00	287.86	95.08	129.37	0.00	0.00	0.00	0.00	587971.20	0.00	2299.26	20204.10
7551.43	29.21	0.00	0.00	233.61	99.66	121.04	0.00	0.00	0.00	0.00	586574.87	0.00	2254.48	20454.71
7551.49	26.50	0.00	0.00	245.09	95.65	127.49	0.00	0.00	0.00	0.00	574132.69	0.00	3358.49	19743.23
7551.56	33.74	0.00	0.00	279.43	101.42	124.86	0.00	0.00	0.00	0.00	576587.10	0.00	3247.55	19796.24
7551.62	33.88	0.00	0.00	255.53	95.72	126.11	0.00	0.00	0.00	0.00	562523.55	0.00	3745.30	20147.75
7551.69	31.56	0.00	0.00	246.17	91.45	126.50	0.00	0.00	0.00	0.00	578557.95	0.00	2981.87	17539.24
7551.76	57.86	0.00	0.00	273.34	105.44	141.80	0.00	0.00	0.00	0.00	575424.95	0.00	1602.36	24276.25
7551.82	52.60	0.00	0.00	266.99	99.02	126.22	0.00	0.00	0.00	0.00	582739.47	0.00	0.00	16849.31
7551.89	37.71	0.00	0.00	275.48	95.38	125.20	0.00	0.00	0.00	0.00	590908.62	0.00	0.00	10405.74
7551.95	27.94	0.00	0.00	276.02	99.64	124.51	0.00	0.00	0.00	0.00	595549.07	0.00	0.00	9626.87
7552.02	33.26	0.00	0.00	262.00	107.28	131.66	0.00	0.00	0.00	0.00	563796.69	23048.04	7450.54	15733.45
7552.08	51.85	0.00	0.00	265.08	97.25	120.18	0.00	0.00	0.00	0.00	590949.46	0.00	0.00	8212.47
7552.15	62.94	0.00	0.00	246.17	88.24	133.14	0.00	0.00	9.16	0.00	576840.39	0.00	4247.64	29946.23
7552.22	47.69	0.00	0.00	265.64	94.01	131.11	0.00	0.00	0.00	0.00	602616.48	0.00	1458.46	70346.06
7552.28	55.67	0.00	0.00	251.92	91.99	128.27	0.00	0.00	9.12	0.00	520808.20	0.00	2825.53	74402.28
7552.35	39.51	20.68	0.00	250.63	95.85	129.15	0.00	28.99	19.49	0.00	508689.35	0.00	4424.75	95214.11
7552.41	115.18	158.50	0.00	240.44	92.23	131.04	0.00	0.00	52.93	20.94	644640.60	0.00	35830.88	172704.35
7552.48	145.41	392.31	0.00	259.65	101.53	143.15	48.13	0.00	34.03	21.45	611248.70	0.00	42007.90	207016.60
7552.54	119.48	194.10	0.00	225.26	88.39	122.02	48.69	23.10	51.66	18.44	563308.36	0.00	45632.45	247720.57
7552.61	200.91	230.37	0.00	236.53	93.21	117.43	48.64	25.79	45.40	30.50	595374.41	0.00	48557.31	213511.69
7552.67	122.94	167.68	0.00	232.28	93.52	131.33	0.00	0.00	54.24	21.70	597053.24	0.00	38440.21	215691.34
7552.74	145.47	82.25	0.00	250.99	98.24	137.16	0.00	0.00	48.86	25.41	564480.66	0.00	69666.08	178511.10
7552.81	408.69	0.00	0.00	244.33	102.75	135.27	53.16	0.00	27.89	43.84	653702.17	0.00	92231.67	172420.81
7552.87	515.56	0.00	0.00	279.35	111.13	144.75	56.37	0.00	35.54	36.06	548781.23	0.00	125259.99	219442.68
7552.94	88.82	116.25	0.00	255.91	103.68	126.45	0.00	0.00	27.02	0.00	645203.99	0.00	24534.18	253689.01
7553.07	92.26	140.40	0.00	254.41	94.39	133.15	0.00	0.00	35.94	15.26	548409.49	0.00	38732.54	304052.89
7553.13	108.82	149.94	0.00	248.46	94.33	130.69	0.00	25.89	43.31	19.30	524795.19	0.00	47499.04	307392.44

Depth	Zr	Mo	Ag	Cd	Sn	Sb	Hf	W	Pb	Bi	LE	Mg	Al	Si
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7553.20	93.63	156.84	0.00	220.40	87.57	110.67	0.00	0.00	33.14	13.30	568884.25	0.00	33013.19	267880.28
7553.26	80.09	72.20	0.00	242.43	93.15	125.18	0.00	0.00	34.96	13.36	605747.98	0.00	34708.93	282309.01
7553.33	111.77	200.24	0.00	235.48	93.61	121.30	36.56	23.73	34.76	19.94	563680.35	0.00	44641.90	273632.34
7553.39	136.96	260.36	0.00	244.56	92.61	123.44	50.40	0.00	44.89	17.94	514880.66	0.00	55340.46	301584.40
7553.46	98.72	84.53	0.00	234.57	93.13	119.23	0.00	21.02	47.81	17.95	614555.32	0.00	33576.40	192653.33
7553.52	117.43	195.74	0.00	238.51	93.46	121.82	40.34	0.00	35.77	19.51	627799.79	0.00	35772.17	209348.08
7553.59	135.87	137.84	0.00	244.03	91.48	115.65	56.03	23.43	50.39	19.63	624596.91	0.00	46829.57	210272.00
7553.66	109.96	0.00	0.00	264.86	108.24	143.33	43.04	0.00	36.72	20.41	644347.37	0.00	86690.66	185474.11
7553.72	101.86	63.00	0.00	285.18	104.00	133.04	33.69	0.00	32.31	18.89	617661.80	0.00	45227.09	261699.09
7553.79	104.41	138.10	0.00	241.24	94.33	123.12	42.16	26.76	30.57	14.16	571941.60	0.00	41516.85	302584.87
7553.85	117.38	160.32	0.00	228.89	89.47	118.48	39.11	0.00	42.65	17.68	567360.38	0.00	49101.55	262976.56
7553.92	83.72	56.88	0.00	267.54	95.01	125.22	0.00	24.53	25.85	0.00	586149.48	0.00	28818.61	290204.50
7553.98	107.52	74.79	0.00	243.46	98.56	126.82	35.28	0.00	38.32	17.52	601741.29	0.00	41280.58	253881.04
7554.05	99.75	141.71	0.00	248.63	95.79	132.77	0.00	0.00	31.31	16.05	594108.82	0.00	38401.90	195176.78
7554.12	117.29	99.69	0.00	257.86	93.95	129.95	41.81	25.22	44.62	17.23	551195.84	0.00	48153.35	240397.68
7554.18	47.46	0.00	0.00	281.17	95.23	131.15	0.00	0.00	7.95	0.00	567153.76	0.00	3290.49	21332.66
7554.25	53.67	33.04	0.00	257.07	104.20	129.86	0.00	29.92	9.34	0.00	579033.35	0.00	5762.26	52939.98
7554.31	52.47	45.65	0.00	259.05	93.17	125.03	0.00	0.00	0.00	0.00	572140.47	0.00	5224.04	118756.29
7554.38	39.93	0.00	0.00	241.20	90.20	126.03	0.00	0.00	0.00	0.00	558384.63	0.00	2064.35	93140.51
7554.44	51.53	44.89	0.00	246.47	96.66	123.83	0.00	0.00	8.40	0.00	582353.97	0.00	5801.17	114495.95
7554.51	156.30	119.92	0.00	236.84	89.86	121.98	0.00	33.86	52.46	24.82	575486.45	0.00	49457.67	171972.63
7554.57	55.55	24.06	0.00	260.67	94.36	118.84	0.00	0.00	7.97	0.00	566449.05	0.00	4822.93	64080.54
7554.64	151.88	199.63	0.00	267.25	98.70	123.71	0.00	77.23	30.52	13.78	598898.95	0.00	28378.52	140725.97
7554.71	164.52	518.60	0.00	255.83	92.60	121.87	0.00	73.88	39.35	16.00	645584.64	0.00	27620.99	125987.77
7554.77	175.54	349.19	0.00	297.60	93.71	125.75	57.11	144.48	52.84	19.37	657796.48	0.00	41418.10	134763.42
7554.84	44.25	27.00	0.00	348.67	91.45	122.21	0.00	212.88	7.69	0.00	529280.85	0.00	7502.75	106682.32
7554.90	31.47	25.57	0.00	262.09	103.51	119.45	0.00	0.00	8.12	0.00	566695.67	0.00	1683.78	104361.44
7554.97	36.78	23.94	0.00	253.92	98.13	124.04	0.00	0.00	0.00	0.00	582618.24	0.00	1940.59	91654.15

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7517.07	0.00	37401.19	0.00	7854.59	44657.53
7517.13	0.00	24566.31	0.00	5461.12	74697.90
7517.20	0.00	61434.06	1601.89	0.00	64262.97
7517.26	0.00	44557.35	3080.00	0.00	59105.32
7517.33	0.00	25631.18	0.00	9252.64	48921.81
7517.39	0.00	3627.91	0.00	0.00	344985.76
7517.46	0.00	3131.50	0.00	0.00	382689.41
7517.52	0.00	2025.61	0.00	0.00	365039.34
7517.59	0.00	5247.14	889.16	0.00	302507.30
7517.66	0.00	11783.01	100.40	0.00	254788.40
7517.72	0.00	20855.76	0.00	0.00	411534.61
7517.79	0.00	21496.89	885.85	0.00	409064.42
7517.85	0.00	3010.07	0.00	0.00	385298.51
7517.92	0.00	4068.44	701.82	0.00	336722.36
7517.98	0.00	2733.02	355.93	0.00	359638.35
7518.05	0.00	2046.64	1449.35	0.00	355249.66
7518.12	0.00	2257.89	0.00	0.00	379470.08
7518.18	0.00	3159.62	1227.37	0.00	358984.80
7518.25	0.00	2593.11	0.00	0.00	334927.28
7518.31	0.00	2488.69	0.00	0.00	336094.64
7518.38	0.00	2237.98	119.67	0.00	330607.97
7518.44	0.00	2874.81	0.00	0.00	325960.20
7518.51	0.00	2584.86	48.51	0.00	312682.11
7518.57	0.00	3326.31	0.00	0.00	364972.47
7518.64	0.00	3781.09	0.00	0.00	360264.77
7518.71	0.00	3025.13	0.00	0.00	356101.43
7518.77	0.00	6043.52	177.17	0.00	332903.76
7518.84	0.00	6468.64	0.00	0.00	303283.19
7518.90	0.00	13928.65	144.94	0.00	267943.10
7518.97	0.00	30337.11	0.00	11413.75	85819.66
7519.03	0.00	34808.77	0.00	8108.18	55085.39
7519.10	0.00	61858.17	0.00	12311.11	50426.64

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7519.17	0.00	36158.24	3025.18	0.00	74699.45
7519.23	0.00	27465.00	67.71	0.00	74215.22
7519.30	0.00	67375.91	0.00	0.00	120873.15
7519.36	0.00	16018.54	0.00	0.00	159794.52
7519.43	0.00	22161.55	0.00	7113.50	89156.16
7519.49	0.00	18352.32	0.00	3875.23	155066.81
7519.56	0.00	11012.51	0.00	0.00	275215.12
7519.62	0.00	8259.01	0.00	0.00	280044.46
7519.69	488.02	10370.35	0.00	0.00	258698.59
7519.76	302.08	13996.42	0.00	0.00	199932.08
7519.82	0.00	20333.96	0.00	4443.43	101893.20
7519.89	0.00	28650.05	0.00	4325.10	30058.71
7519.95	0.00	31677.75	0.00	0.00	17951.56
7520.02	0.00	23553.69	0.00	0.00	21175.33
7520.08	0.00	25597.20	0.00	6755.23	28747.11
7520.15	0.00	26122.96	0.00	9639.75	45150.76
7520.22	0.00	24792.23	0.00	11993.59	19531.39
7520.28	0.00	25309.63	0.00	17526.55	8834.72
7520.35	0.00	32388.62	0.00	11578.80	11981.02
7520.41	0.00	42136.61	0.00	15930.05	10661.08
7520.48	353.43	43454.85	0.00	8455.14	16123.23
7520.54	271.89	34898.54	0.00	13605.81	12990.78
7520.61	405.79	25246.56	0.00	18458.79	10182.29
7520.67	0.00	34976.18	0.00	17406.66	8529.59
7520.74	0.00	22630.33	0.00	16117.30	5857.13
7520.81	0.00	41740.86	0.00	16250.79	14204.01
7520.87	0.00	45210.88	0.00	15218.54	22507.38
7520.94	0.00	32418.00	0.00	18832.64	18737.69
7521.00	297.07	25543.11	0.00	17058.92	13408.53
7521.07	189.72	25644.89	0.00	14098.33	11788.17
7521.13	237.20	33959.29	0.00	12880.48	11986.57
7521.20	0.00	41873.46	0.00	13261.62	13488.51

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7521.26	0.00	23641.28	0.00	19427.83	13517.38
7521.33	213.15	64629.75	0.00	10798.18	17084.23
7521.39	0.00	23883.80	0.00	18796.32	17573.75
7521.46	222.69	27221.91	387.25	12560.67	23755.70
7521.52	200.44	47045.51	0.00	10801.32	29614.92
7521.59	0.00	40673.16	0.00	15675.02	31518.85
7521.66	325.58	28343.51	0.00	16729.44	21826.59
7521.72	199.00	31109.43	0.00	16088.30	16978.35
7521.79	0.00	48545.37	0.00	15056.22	15137.22
7521.85	0.00	46749.22	0.00	7304.12	25539.58
7521.92	0.00	34089.79	0.00	10724.56	21966.25
7521.98	0.00	35592.53	0.00	13007.94	32783.80
7522.05	0.00	22784.54	0.00	15023.89	21547.29
7522.12	0.00	31201.94	0.00	15737.69	26112.39
7522.18	0.00	32509.47	0.00	15715.74	33965.97
7522.25	0.00	29583.80	0.00	12879.84	51887.81
7522.31	234.15	43936.40	0.00	8347.85	55242.13
7522.38	0.00	7557.88	0.00	0.00	280987.18
7522.44	0.00	26057.08	0.00	5128.66	142745.90
7522.51	0.00	18776.41	0.00	6618.07	130461.53
7522.57	0.00	15434.85	0.00	11863.39	76161.61
7522.64	0.00	26380.83	0.00	7459.05	82384.14
7522.71	0.00	28258.39	0.00	10806.08	64203.56
7522.77	0.00	22788.11	0.00	16572.79	43003.98
7522.84	0.00	23930.33	0.00	18038.07	43429.49
7522.90	0.00	23233.92	0.00	19425.62	33121.22
7522.97	0.00	18120.82	0.00	17670.69	42049.71
7523.03	0.00	20078.30	0.00	14235.88	40371.51
7523.10	0.00	18155.93	0.00	15596.55	47106.70
7523.17	0.00	15515.77	0.00	10859.00	57364.53
7523.23	0.00	9347.33	0.00	10840.48	74513.11
7523.30	0.00	22604.66	0.00	9189.58	99378.40

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7523.36	0.00	14215.11	0.00	16918.91	59010.83
7523.43	0.00	9119.13	0.00	18241.22	49464.33
7523.49	0.00	8668.63	0.00	21421.27	38785.85
7523.56	0.00	6048.34	0.00	16777.80	73565.77
7523.62	0.00	6161.65	0.00	2740.39	157657.27
7523.69	0.00	4252.73	0.00	0.00	281243.14
7523.76	0.00	4855.25	0.00	0.00	319277.98
7523.82	0.00	7896.39	0.00	0.00	350125.43
7523.89	0.00	12644.75	108.92	0.00	358802.41
7523.95	0.00	12026.45	32.07	0.00	345878.77
7524.02	0.00	2603.42	333.60	0.00	321574.68
7524.08	341.64	3112.25	0.00	0.00	350609.32
7524.15	0.00	3051.86	109.43	0.00	272140.04
7524.22	342.56	4550.98	0.00	0.00	240323.24
7524.28	417.83	8905.39	0.00	6425.98	130634.09
7524.35	530.60	6949.16	0.00	0.00	159201.36
7524.41	355.93	9432.99	0.00	9239.83	103594.22
7524.48	225.56	6908.42	76.67	17031.99	66324.86
7524.54	0.00	7151.93	0.00	18650.76	70324.32
7524.61	0.00	7186.61	0.00	14891.63	74165.47
7524.67	291.65	16059.88	4551.50	0.00	108868.20
7524.74	292.36	7461.95	3186.19	0.00	171144.10
7524.81	0.00	6950.91	0.00	0.00	169341.42
7524.87	0.00	6190.29	0.00	9906.16	120760.99
7524.94	214.88	5708.68	0.00	15596.48	64939.65
7525.00	0.00	15942.16	0.00	11609.39	51947.84
7525.07	0.00	7497.19	0.00	18539.75	62857.45
7525.13	0.00	8314.16	0.00	16350.86	58726.94
7525.20	0.00	7597.19	0.00	16289.52	60065.66
7525.26	0.00	11091.15	0.00	15223.34	66787.65
7525.33	478.62	9705.12	0.00	3167.04	141548.50
7525.39	1041.17	12424.06	0.00	0.00	138092.64

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7525.46	2116.90	28640.09	0.00	0.00	172393.51
7525.52	0.00	14700.76	0.00	0.00	233707.45
7525.59	227.89	29712.12	0.00	15071.31	62153.60
7525.66	613.08	16524.46	0.00	16904.57	66166.94
7525.72	2930.50	17552.69	0.00	0.00	185872.72
7525.79	267.96	50736.96	0.00	11121.61	62274.80
7525.85	0.00	58653.81	0.00	10002.29	42500.61
7525.92	0.00	80862.19	0.00	0.00	36733.63
7525.98	0.00	67233.66	0.00	6249.14	22106.70
7526.05	0.00	29936.59	0.00	6371.26	17805.71
7526.12	0.00	37840.91	4663.14	4889.41	19675.41
7526.18	0.00	50197.10	0.00	0.00	20591.78
7526.25	0.00	46682.67	0.00	0.00	22128.19
7526.31	0.00	44710.22	2789.50	0.00	21748.87
7526.38	0.00	43162.61	1790.10	0.00	46063.29
7526.44	0.00	53922.65	4084.31	0.00	31273.40
7526.51	0.00	44661.09	0.00	0.00	30973.59
7526.57	0.00	39085.23	0.00	0.00	27344.86
7526.64	0.00	47937.61	0.00	3396.71	31587.88
7526.71	0.00	42789.50	0.00	0.00	41354.25
7526.77	0.00	45324.11	0.00	0.00	33435.53
7526.84	0.00	39659.68	0.00	0.00	31547.49
7526.90	0.00	43826.56	0.00	0.00	24828.59
7527.07	0.00	35147.09	0.00	0.00	39815.58
7527.13	0.00	31201.49	0.00	0.00	19141.53
7527.20	0.00	31208.43	0.00	3350.76	21356.72
7527.26	0.00	39940.04	0.00	7814.45	23906.18
7527.33	0.00	33788.19	0.00	3860.44	29815.17
7527.39	0.00	32960.34	0.00	5668.03	35863.01
7527.46	0.00	32554.09	0.00	10475.94	44061.36
7527.52	0.00	39045.94	0.00	10995.47	29232.84
7527.59	0.00	27480.19	0.00	0.00	102210.63

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7527.66	0.00	16876.89	0.00	0.00	135411.17
7527.72	0.00	28143.38	0.00	0.00	67606.91
7527.79	0.00	24378.78	0.00	0.00	128799.18
7527.85	0.00	36230.05	85.42	0.00	67845.47
7527.92	0.00	35098.30	0.00	0.00	76630.26
7527.98	0.00	34653.77	0.00	5150.61	52444.98
7528.05	0.00	36321.19	0.00	8474.27	34121.85
7528.12	0.00	30754.52	0.00	10387.25	33975.44
7528.18	0.00	33429.20	0.00	9050.32	31640.85
7528.25	0.00	59246.66	0.00	8194.31	15330.25
7528.31	0.00	60306.86	0.00	11335.87	19749.13
7528.38	0.00	63540.06	0.00	8013.59	19494.29
7528.44	0.00	51558.72	0.00	11061.35	16540.09
7528.51	0.00	44774.60	0.00	15050.23	19803.14
7528.57	0.00	52211.11	5170.48	0.00	29343.45
7528.64	0.00	47443.36	479.66	12252.69	34552.12
7528.71	0.00	48398.02	334.61	12510.91	42210.52
7528.77	0.00	33210.79	96.59	17331.76	35162.63
7528.84	0.00	49093.16	0.00	14622.67	38158.20
7528.90	0.00	34250.94	1386.65	13868.76	32949.86
7528.97	0.00	30425.85	0.00	19770.68	20618.82
7529.03	0.00	35924.71	1135.36	11840.11	24326.90
7529.10	0.00	43273.52	1934.84	11650.83	36423.07
7529.17	0.00	68186.22	6098.40	0.00	38084.17
7529.23	0.00	41901.79	0.00	11204.89	16684.35
7529.30	0.00	49958.53	1029.13	10283.50	27065.00
7529.36	0.00	36954.67	0.00	14588.70	19171.48
7529.43	0.00	83073.07	0.00	11835.27	10098.45
7529.49	0.00	106077.62	0.00	41765.72	1268.58
7529.56	0.00	42494.24	0.00	7404.88	20134.33
7529.62	0.00	80430.03	0.00	0.00	44180.11
7529.69	0.00	27941.62	0.00	0.00	79419.55

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7529.76	0.00	45677.39	0.00	10437.06	25222.10
7529.82	0.00	31434.02	0.00	7504.90	22007.49
7529.89	0.00	35335.74	0.00	13215.43	16745.33
7529.95	0.00	42387.41	1318.40	11104.27	16195.44
7530.02	0.00	37634.95	85.39	16498.35	16552.31
7530.08	0.00	74396.91	1234.70	7454.22	9968.52
7530.15	0.00	136434.66	0.00	0.00	11865.66
7530.22	0.00	47277.79	2637.70	0.00	17481.51
7530.28	0.00	61935.95	119.19	5908.28	19145.03
7530.35	0.00	34308.83	189.74	3583.93	32552.46
7530.41	0.00	39811.11	0.00	0.00	49172.07
7530.48	0.00	31921.23	1024.66	6785.14	48983.78
7530.54	0.00	37607.37	254.20	7292.38	82438.82
7530.61	0.00	37784.78	0.00	0.00	27668.60
7530.67	0.00	38557.53	1343.62	0.00	21284.63
7530.74	0.00	111582.13	816.60	0.00	14262.46
7530.81	0.00	39534.97	429.54	11704.71	20035.53
7530.87	0.00	32161.13	2027.63	0.00	27237.20
7530.94	0.00	34478.57	671.62	0.00	42984.77
7531.00	0.00	33338.80	0.00	5009.98	37315.02
7531.07	0.00	35882.13	3583.52	0.00	42679.18
7531.13	0.00	42643.92	655.63	0.00	47683.95
7531.20	0.00	38340.89	1374.30	3606.92	109773.16
7531.26	725.19	80627.49	1489.86	3640.58	144458.01
7531.33	595.87	13421.97	1279.06	0.00	179928.25
7531.39	528.00	24775.41	1383.69	0.00	171223.78
7531.46	0.00	13708.28	1716.36	0.00	219285.48
7531.52	0.00	16593.26	2177.04	0.00	187066.97
7531.59	0.00	33571.76	2622.50	0.00	98121.46
7531.66	0.00	34294.85	563.93	0.00	81891.41
7531.72	0.00	34172.82	1823.91	0.00	62014.02
7531.79	0.00	32622.42	2758.80	0.00	61457.30

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7531.85	0.00	36471.82	0.00	0.00	48931.31
7531.92	0.00	119519.61	0.00	0.00	34212.05
7531.98	0.00	24731.59	74.15	0.00	45679.36
7532.05	0.00	28212.12	264.59	4339.17	55892.59
7532.12	0.00	29475.92	0.00	0.00	68311.05
7532.18	0.00	32047.48	4445.58	0.00	62090.14
7532.25	0.00	28886.98	3956.16	0.00	55995.10
7532.31	0.00	41796.42	2942.00	0.00	70386.93
7532.38	0.00	30024.96	1316.12	0.00	72449.87
7532.44	0.00	38263.38	5760.16	0.00	69013.36
7532.51	0.00	26906.63	2136.52	0.00	79353.39
7532.57	0.00	35393.30	975.77	0.00	77891.83
7532.64	0.00	36687.27	1034.18	0.00	86022.17
7532.71	0.00	31218.79	355.02	0.00	60184.90
7532.77	225.27	28653.43	0.00	0.00	88543.66
7532.84	0.00	31683.36	0.00	0.00	88432.36
7532.90	0.00	37702.42	0.00	0.00	77276.75
7532.97	0.00	39685.08	609.55	3913.00	49200.84
7533.03	0.00	34466.45	0.00	6403.62	55653.09
7533.10	0.00	34805.92	0.00	4958.66	91908.75
7533.17	0.00	24293.86	0.00	0.00	130766.26
7533.23	0.00	17243.82	0.00	0.00	203398.29
7533.30	332.25	18106.41	0.00	0.00	210564.54
7533.36	844.95	20244.79	886.61	0.00	174784.31
7533.43	329.31	21927.29	2269.64	0.00	154623.01
7533.49	0.00	23400.19	3088.94	0.00	121392.16
7533.56	0.00	32141.48	3267.36	0.00	104378.81
7533.62	0.00	27008.89	1281.89	0.00	88029.27
7533.69	0.00	27891.35	3096.10	0.00	89263.12
7533.76	0.00	30657.41	481.02	5121.60	73327.36
7533.82	0.00	31486.30	0.00	0.00	81702.06
7533.89	0.00	34719.20	0.00	5012.18	74177.74

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7533.95	0.00	36482.70	2682.16	0.00	86683.17
7534.02	0.00	45229.86	3345.13	0.00	38117.14
7534.08	0.00	49785.47	1929.96	3742.65	36646.39
7534.15	0.00	39609.12	1452.35	7696.98	23164.30
7534.22	0.00	42067.49	1487.90	0.00	23912.18
7534.28	0.00	39490.68	0.00	3846.41	22626.71
7534.35	0.00	44494.05	0.00	6467.05	31937.11
7534.41	0.00	36163.06	0.00	9247.85	17056.52
7534.48	0.00	47966.73	0.00	7294.23	9396.33
7534.54	0.00	40016.99	0.00	7577.85	9946.05
7534.61	0.00	48128.41	0.00	0.00	15192.90
7534.67	0.00	47473.42	0.00	0.00	13996.58
7534.74	0.00	36808.25	0.00	3839.31	8515.21
7534.81	0.00	48624.23	1519.45	0.00	17017.13
7534.87	0.00	66906.05	1104.02	0.00	46891.90
7535.07	0.00	55029.00	178.63	0.00	25652.23
7535.13	0.00	65676.27	0.00	0.00	18622.66
7535.20	0.00	50697.21	0.00	7371.35	11951.82
7535.26	0.00	37884.61	0.00	0.00	7115.69
7535.33	0.00	35087.95	0.00	10795.60	7141.12
7535.39	0.00	30531.70	0.00	8442.25	5352.15
7535.46	0.00	40613.87	0.00	0.00	11506.65
7535.52	0.00	43588.00	0.00	0.00	10931.70
7535.59	0.00	48797.40	0.00	0.00	11221.90
7535.66	0.00	54241.73	0.00	0.00	45725.51
7535.72	0.00	62224.65	2562.57	0.00	19972.70
7535.79	0.00	50550.79	0.00	0.00	20530.51
7535.85	0.00	37173.74	0.00	0.00	29834.01
7535.92	0.00	34113.59	0.00	0.00	30757.79
7535.98	0.00	39497.80	0.00	0.00	30538.22
7536.05	0.00	32427.51	0.00	0.00	20982.94
7536.12	0.00	39694.70	0.00	5078.83	19499.74

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7536.18	0.00	48252.00	848.74	0.00	26653.64
7536.25	0.00	39604.17	0.00	3900.88	15780.56
7536.31	0.00	46518.99	0.00	0.00	20992.44
7536.38	0.00	35601.51	0.00	0.00	13806.09
7536.44	0.00	34833.63	3817.32	0.00	21227.00
7536.51	0.00	48178.70	0.00	0.00	25174.31
7536.57	0.00	47135.33	0.00	0.00	28669.87
7536.64	0.00	50096.44	0.00	0.00	32143.76
7536.71	0.00	56065.31	0.00	0.00	30955.17
7536.77	0.00	53078.56	0.00	0.00	27888.63
7536.84	0.00	48082.68	0.00	0.00	24540.71
7536.90	0.00	47155.20	0.00	0.00	30393.97
7536.97	0.00	41381.13	0.00	0.00	25601.51
7537.07	0.00	40474.21	0.00	11173.85	23775.48
7537.13	0.00	58875.96	0.00	7004.20	30340.44
7537.20	0.00	49872.12	0.00	11023.50	23107.01
7537.26	0.00	49875.10	0.00	12397.10	22013.90
7537.33	0.00	41857.32	0.00	12653.16	24616.34
7537.39	0.00	44789.58	0.00	14411.82	20802.02
7537.46	0.00	71661.63	0.00	3573.39	21308.09
7537.52	0.00	48610.43	0.00	8336.38	23054.33
7537.59	0.00	51396.96	0.00	9462.97	28534.57
7537.66	0.00	64145.31	0.00	8235.06	37177.51
7537.72	0.00	55593.69	0.00	12504.96	23238.43
7537.79	0.00	41831.10	0.00	12072.94	18267.80
7537.85	0.00	70352.81	3353.92	3999.68	25478.70
7537.92	214.28	47589.16	0.00	14741.84	30641.74
7537.98	0.00	39128.57	0.00	13669.08	15338.26
7538.05	0.00	53704.77	0.00	6215.35	16431.98
7538.12	0.00	50760.74	0.00	12872.39	17232.14
7538.18	0.00	81209.58	11017.97	0.00	17711.41
7538.25	0.00	46092.27	0.00	16658.05	11927.53

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7538.31	0.00	47358.99	0.00	13603.51	12463.10
7538.38	0.00	58941.96	0.00	10114.87	34885.09
7538.44	0.00	50369.45	0.00	10285.68	14628.56
7538.51	0.00	53879.03	18184.12	0.00	15723.66
7538.57	0.00	44299.21	0.00	11636.03	14217.99
7538.64	0.00	52957.66	453.53	6863.78	23554.07
7538.71	0.00	40621.00	687.42	13696.86	18599.62
7538.77	0.00	32432.32	0.00	18903.43	14854.28
7538.84	0.00	31869.63	0.00	15937.05	13404.05
7538.90	0.00	41101.62	0.00	3815.75	12916.59
7538.97	0.00	39590.69	0.00	9967.46	19766.05
7539.03	0.00	47487.04	0.00	5275.63	20816.85
7539.10	0.00	46603.66	681.32	0.00	21651.98
7539.17	0.00	49310.30	11052.49	0.00	20611.59
7539.23	0.00	60686.19	8034.29	0.00	17546.96
7539.30	0.00	41733.68	230.61	6828.63	21761.56
7539.36	0.00	45787.76	0.00	0.00	29092.54
7539.43	0.00	55588.67	481.53	7330.14	42430.74
7539.49	0.00	51102.06	12346.89	0.00	45282.30
7539.56	0.00	49488.13	4012.30	0.00	37565.49
7539.62	0.00	25660.01	9060.55	0.00	92102.35
7539.69	0.00	29352.16	13533.10	0.00	48367.46
7539.76	0.00	60194.02	24499.15	0.00	14750.21
7539.82	0.00	65767.99	5351.31	0.00	44438.07
7539.89	0.00	58274.85	0.00	0.00	41953.19
7539.95	0.00	131774.60	1124.72	0.00	32744.30
7540.02	0.00	40166.91	273.04	12329.89	45427.43
7540.07	0.00	49100.27	0.00	12020.62	28864.65
7540.13	0.00	48585.08	0.00	11234.53	32639.04
7540.20	0.00	53145.26	0.00	11971.26	27262.41
7540.26	0.00	50946.37	537.34	10519.23	37161.92
7540.33	0.00	57023.00	0.00	8911.15	25492.74

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7540.39	0.00	46478.06	113.38	4297.84	15544.20
7540.46	447.22	91736.55	556.12	0.00	24638.95
7540.52	250.55	90335.40	1663.73	0.00	31235.87
7540.59	0.00	82381.27	10988.41	0.00	33472.65
7540.66	0.00	79443.75	0.00	4268.34	40301.17
7540.72	0.00	66602.30	0.00	10249.72	29498.03
7540.79	0.00	72485.34	0.00	7816.05	28401.56
7540.85	256.18	67222.21	0.00	5021.65	51927.45
7540.92	0.00	64483.11	0.00	8078.06	38653.47
7540.98	0.00	59293.90	0.00	6463.19	23981.57
7541.05	0.00	58712.93	0.00	7661.18	38143.56
7541.12	0.00	80150.24	0.00	0.00	52793.07
7541.18	225.26	82248.12	0.00	0.00	57734.66
7541.25	0.00	51156.40	0.00	0.00	78353.93
7541.31	0.00	59486.78	0.00	0.00	84631.00
7541.38	0.00	33349.32	0.00	0.00	91953.51
7541.44	0.00	39098.28	0.00	0.00	144839.29
7541.51	0.00	7725.40	2466.59	0.00	309949.50
7541.57	0.00	4137.38	3387.49	0.00	353455.17
7541.64	0.00	2304.19	330.18	0.00	383520.52
7541.71	0.00	2235.58	93.47	0.00	383919.98
7541.77	0.00	3045.47	0.00	0.00	377882.52
7541.84	0.00	3467.69	247.05	0.00	370497.98
7541.90	0.00	3591.11	0.00	0.00	371652.20
7541.97	0.00	9228.03	10048.79	0.00	334484.28
7542.03	0.00	7531.05	8857.41	0.00	307708.74
7542.10	0.00	10747.47	0.00	0.00	291641.23
7542.17	0.00	17216.72	0.00	0.00	214342.26
7542.23	0.00	9098.35	0.00	0.00	154143.97
7542.30	0.00	31421.27	1186.40	0.00	167212.57
7542.36	0.00	53310.99	0.00	10257.10	65016.59
7542.43	0.00	56323.99	0.00	4751.57	41222.68

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7542.49	0.00	54612.36	0.00	0.00	35468.49
7542.56	235.01	53662.64	0.00	6621.68	51022.04
7542.62	0.00	46889.12	0.00	8910.55	47327.42
7542.69	260.22	47304.45	0.00	5212.02	30864.45
7542.76	0.00	119234.05	348.70	0.00	26762.14
7542.82	0.00	49695.30	0.00	9207.65	28346.71
7542.89	0.00	56417.27	0.00	0.00	53131.42
7542.95	0.00	48093.01	0.00	0.00	162969.75
7543.07	772.34	65822.88	0.00	0.00	30362.98
7543.13	432.61	56572.87	0.00	4576.51	42422.77
7543.20	0.00	26961.64	0.00	0.00	203860.15
7543.26	0.00	58018.28	0.00	0.00	135032.45
7543.33	0.00	63726.21	0.00	0.00	95565.64
7543.39	275.23	73475.50	0.00	0.00	49214.20
7543.46	265.39	57685.19	0.00	6549.34	30025.24
7543.52	265.68	117474.71	0.00	0.00	38597.46
7543.59	0.00	40872.25	0.00	0.00	66698.58
7543.66	0.00	72215.74	0.00	0.00	30345.35
7543.72	0.00	62122.43	0.00	0.00	50441.61
7543.79	0.00	65452.52	0.00	0.00	55352.69
7543.85	0.00	67141.90	0.00	0.00	61561.75
7543.92	0.00	59256.63	318.64	0.00	64412.72
7543.98	0.00	55406.49	64.65	0.00	103200.44
7544.05	0.00	55405.13	0.00	0.00	47196.50
7544.12	0.00	81578.84	0.00	0.00	30608.15
7544.18	0.00	55303.61	0.00	0.00	31302.27
7544.25	0.00	42991.61	0.00	0.00	38039.20
7544.31	0.00	58285.04	0.00	0.00	48505.40
7544.38	0.00	104329.05	0.00	12470.96	42141.94
7544.44	0.00	83046.02	0.00	0.00	32727.70
7544.51	0.00	59977.75	0.00	0.00	39714.17
7544.57	0.00	80506.97	2733.02	0.00	40699.99

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7544.64	0.00	52205.49	0.00	0.00	59794.07
7544.71	0.00	49145.45	0.00	5315.53	38907.03
7544.77	0.00	70795.88	0.00	0.00	43139.43
7544.84	0.00	73368.61	0.00	0.00	44242.41
7544.90	307.67	121666.92	0.00	4686.71	56443.39
7544.97	0.00	48526.45	0.00	6386.11	44907.54
7545.07	0.00	49261.44	0.00	0.00	63083.79
7545.13	0.00	65653.37	0.00	0.00	23478.75
7545.20	0.00	66053.34	0.00	0.00	24856.45
7545.26	0.00	67878.54	0.00	0.00	31629.98
7545.33	0.00	62369.44	0.00	0.00	38925.43
7545.39	0.00	51527.59	0.00	0.00	67360.07
7545.46	0.00	40944.74	0.00	0.00	192225.50
7545.52	0.00	57255.71	0.00	0.00	174184.03
7545.59	0.00	99007.53	0.00	0.00	118780.32
7545.66	0.00	113266.96	0.00	4825.04	37658.05
7545.72	0.00	53985.24	0.00	0.00	16336.05
7545.79	0.00	60706.36	0.00	4446.13	30878.96
7545.85	0.00	69962.30	0.00	0.00	31754.70
7545.92	0.00	61139.52	0.00	0.00	26209.68
7545.98	0.00	59505.50	0.00	0.00	29189.87
7546.05	0.00	116469.94	0.00	0.00	21487.49
7546.12	0.00	68437.53	0.00	0.00	20853.74
7546.18	0.00	52705.38	0.00	0.00	50548.08
7546.25	0.00	59549.75	0.00	0.00	69628.85
7546.31	0.00	56319.04	0.00	0.00	127319.47
7546.38	0.00	51256.17	0.00	0.00	96701.77
7546.44	0.00	50731.07	0.00	0.00	79408.57
7546.51	0.00	40725.04	0.00	3920.19	67605.58
7546.57	0.00	41276.68	0.00	0.00	67445.58
7546.64	0.00	58556.21	0.00	4886.90	33459.40
7546.71	0.00	49471.43	0.00	5201.53	54974.04

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7546.77	354.26	63144.23	0.00	0.00	17897.51
7546.84	0.00	25730.51	0.00	7449.96	17136.49
7546.90	0.00	70835.30	0.00	0.00	38318.67
7546.97	0.00	75128.87	0.00	0.00	28513.62
7547.03	0.00	57709.62	0.00	0.00	31872.41
7547.10	0.00	54285.46	0.00	0.00	48785.29
7547.17	0.00	69827.41	0.00	0.00	57705.13
7547.23	0.00	55715.18	0.00	0.00	49025.07
7547.30	0.00	37339.44	0.00	0.00	47141.44
7547.36	0.00	58112.21	0.00	0.00	23240.57
7547.43	0.00	47783.57	0.00	0.00	19875.25
7547.49	0.00	56431.33	0.00	0.00	26465.50
7547.56	0.00	80964.27	0.00	0.00	29503.35
7547.62	0.00	51408.85	0.00	0.00	16760.85
7547.69	0.00	46151.32	0.00	0.00	19592.44
7547.76	0.00	46638.59	0.00	0.00	14536.20
7547.82	0.00	40605.45	0.00	0.00	18561.46
7547.89	0.00	38355.83	0.00	0.00	23260.45
7547.95	0.00	44491.36	0.00	0.00	12752.12
7548.02	0.00	61600.52	0.00	0.00	17652.61
7548.08	0.00	50858.48	0.00	0.00	14507.86
7548.15	214.00	57240.57	0.00	0.00	17317.35
7548.22	0.00	52779.91	0.00	0.00	18643.09
7548.28	0.00	46188.94	0.00	0.00	14069.92
7548.35	0.00	68295.88	0.00	0.00	11921.12
7548.41	0.00	51627.47	0.00	0.00	12495.08
7548.48	0.00	43921.57	0.00	0.00	9298.16
7548.54	0.00	48997.23	0.00	0.00	17188.64
7548.61	0.00	48251.39	0.00	0.00	21172.39
7548.67	0.00	57517.56	0.00	0.00	18429.39
7548.74	0.00	47436.95	0.00	0.00	17104.15
7548.81	0.00	53661.30	0.00	0.00	12645.60

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7548.87	0.00	48370.01	0.00	0.00	24201.06
7548.94	0.00	39005.32	0.00	0.00	38675.92
7549.07	0.00	30626.63	4440.80	0.00	55222.36
7549.13	0.00	25707.08	0.00	0.00	105726.58
7549.20	0.00	64571.20	0.00	0.00	35577.87
7549.26	0.00	48487.80	0.00	0.00	36434.28
7549.33	0.00	37236.95	0.00	0.00	30453.37
7549.39	0.00	52270.58	0.00	0.00	33223.35
7549.46	0.00	76575.15	0.00	0.00	49906.53
7549.52	0.00	38740.29	0.00	0.00	44142.14
7549.59	0.00	30334.69	0.00	0.00	45315.58
7549.66	0.00	40685.92	0.00	0.00	27592.84
7549.72	0.00	51927.06	0.00	0.00	31838.31
7549.79	0.00	42116.72	0.00	0.00	33534.54
7549.85	0.00	48108.00	0.00	0.00	25220.70
7549.92	0.00	55852.43	0.00	0.00	29498.88
7549.98	0.00	27697.50	0.00	0.00	37246.86
7550.05	0.00	40738.18	0.00	0.00	54263.48
7550.12	7579.19	64925.07	0.00	0.00	50209.37
7550.18	0.00	68717.70	0.00	0.00	33856.45
7550.25	0.00	51758.89	0.00	0.00	22655.31
7550.31	0.00	46078.63	0.00	0.00	16247.85
7550.38	0.00	48545.41	0.00	0.00	14149.25
7550.44	0.00	58989.12	963.44	0.00	25451.48
7550.51	0.00	44132.48	1303.92	0.00	25892.40
7550.57	0.00	71776.74	0.00	0.00	29291.94
7550.64	0.00	63495.10	0.00	0.00	40400.72
7550.71	0.00	50830.01	2337.03	0.00	57302.90
7550.77	0.00	36214.02	0.00	0.00	24508.09
7550.84	0.00	49327.98	0.00	0.00	30687.42
7550.90	0.00	64464.69	0.00	0.00	32525.85
7550.97	0.00	46162.21	0.00	0.00	40929.33

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7551.03	0.00	14819.59	0.00	0.00	175965.60
7551.10	0.00	3517.55	0.00	0.00	304731.25
7551.17	0.00	3171.74	0.00	0.00	382921.68
7551.23	0.00	4006.08	0.00	0.00	392340.05
7551.30	0.00	4319.57	0.00	0.00	375722.36
7551.36	0.00	3230.65	0.00	0.00	380905.09
7551.43	0.00	3188.01	0.00	0.00	382762.80
7551.49	0.00	1788.46	0.00	0.00	397239.91
7551.56	0.00	4002.42	260.68	0.00	391697.18
7551.62	0.00	2717.31	230.23	0.00	406455.01
7551.69	0.00	3201.28	283.36	0.00	393469.65
7551.76	0.00	1831.89	30.41	0.00	393572.92
7551.82	0.00	1099.52	52.07	0.00	396131.59
7551.89	0.00	648.42	0.00	0.00	395611.17
7551.95	253.89	1320.76	0.00	0.00	390021.76
7552.02	0.00	1194.22	0.00	0.00	376630.10
7552.08	0.00	1655.35	0.00	0.00	390714.79
7552.15	0.00	12590.84	0.00	0.00	351031.14
7552.22	295.51	11666.42	284.43	0.00	301358.01
7552.28	0.00	11157.29	171.29	0.00	374796.16
7552.35	0.00	52138.09	1156.55	0.00	291402.79
7552.41	0.00	52904.13	1043.66	0.00	52648.26
7552.48	221.76	49087.19	0.00	0.00	48590.47
7552.54	0.00	69519.08	759.01	0.00	30591.66
7552.61	0.00	61135.90	0.00	3066.44	32667.09
7552.67	0.00	67580.48	0.00	0.00	32919.57
7552.74	0.00	32793.17	1428.13	5148.95	108510.33
7552.81	359.77	17090.09	0.00	31420.93	654.60
7552.87	1207.44	38228.17	0.00	10467.47	3928.65
7552.94	0.00	19712.07	0.00	0.00	29164.45
7553.07	0.00	44039.72	0.00	0.00	27884.13
7553.13	0.00	44267.90	0.00	0.00	36315.95

Depth	P	S	Cl	K	Ca
	ppm	ppm	ppm	ppm	ppm
7553.20	0.00	62112.43	0.00	0.00	23091.90
7553.26	0.00	33534.45	0.00	0.00	14200.04
7553.33	0.00	61764.54	0.00	0.00	22187.55
7553.39	317.41	54336.83	0.00	0.00	23053.58
7553.46	0.00	83049.21	1343.75	0.00	36922.62
7553.52	0.00	60624.80	3719.78	0.00	29869.32
7553.59	0.00	52620.02	2665.09	0.00	30798.69
7553.66	0.00	18808.58	0.00	33802.32	2450.89
7553.72	0.00	27685.70	8543.48	0.00	14294.23
7553.79	0.00	38887.79	0.00	0.00	13749.98
7553.85	0.00	44533.62	0.00	0.00	32525.22
7553.92	0.00	22108.45	0.00	0.00	50873.03
7553.98	0.00	35786.20	0.00	0.00	34326.68
7554.05	0.00	32608.40	0.00	0.00	107441.41
7554.12	0.00	34985.19	0.00	0.00	89481.51
7554.18	0.00	22792.99	909.71	0.00	371490.57
7554.25	0.00	15627.65	1001.34	0.00	335159.55
7554.31	0.00	10825.84	935.96	0.00	284167.78
7554.38	1355.74	2255.44	0.00	0.00	339518.08
7554.44	775.65	12866.48	189.51	0.00	273218.30
7554.51	0.00	77093.98	516.73	2873.39	80213.40
7554.57	0.00	26118.27	2010.36	0.00	329193.45
7554.64	0.00	44587.22	1040.88	0.00	156086.63
7554.71	436.39	54261.30	0.00	4156.68	104924.29
7554.77	0.00	45443.37	657.27	15282.16	67565.99
7554.84	0.00	10110.32	0.00	0.00	327828.27
7554.90	0.00	4912.31	390.58	0.00	316463.75
7554.97	0.00	6054.44	0.00	0.00	311953.54

Table D-6, MSCL Soil Suite:

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7445.20	305810.60	17.20	12045.03	54.75	362.97	16377.47	42.02	55.96	16.97	1.45	128.70	55.44	61.41	12.34
7445.26	371646.40	16.60	11942.49	65.67	382.13	22401.76	50.71	96.31	18.42	5.31	154.16	57.77	89.71	10.99
7445.33	323820.60	17.00	2389.07	72.13	381.61	23426.99	58.41	238.86	18.62	5.39	150.38	56.00	92.73	10.65
7445.39	323086.40	17.00	2357.99	74.85	379.55	23070.21	60.45	409.51	18.03	5.17	155.05	57.13	91.26	10.81
7445.46	320356.60	17.00	2786.45	87.03	241.91	27111.61	73.96	657.73	22.84	6.99	147.07	30.36	116.41	13.15
7445.52	312668.20	17.20	3337.34	104.75	159.06	31012.49	82.80	704.15	26.75	7.87	142.44	27.85	137.83	16.40
7445.59	314748.00	17.20	3437.36	111.55	156.25	31162.01	81.94	706.65	28.06	7.64	145.39	27.35	136.81	16.70
7445.66	377131.00	16.60	3386.93	107.59	160.58	31924.71	79.25	623.28	28.35	8.31	151.46	29.07	136.23	16.67
7445.72	386247.20	16.40	3432.25	106.79	158.80	33636.43	82.96	447.70	30.73	9.04	152.41	28.08	136.79	16.29
7445.79	390361.80	16.40	3396.15	111.66	160.07	34533.59	79.21	201.40	33.70	8.57	147.53	27.32	135.63	16.02
7445.85	401397.20	16.20	3465.75	114.77	167.92	36158.81	81.66	151.17	35.54	8.94	150.51	29.89	135.82	14.53
7445.92	414612.00	16.00	3418.23	111.72	177.48	38330.72	89.23	102.12	36.83	9.59	154.35	32.33	137.23	15.26
7445.98	422822.60	16.00	3777.20	111.64	184.83	39784.49	91.34	35.17	39.18	9.44	157.84	31.78	137.41	15.62
7446.05	428555.80	16.00	3887.89	116.53	200.26	41097.50	87.31	33.96	40.26	9.36	157.35	31.39	138.11	16.33
7446.12	429538.00	16.00	4082.26	118.66	211.73	41841.57	89.43	33.18	39.80	9.69	162.25	33.32	142.80	16.94
7446.18	424836.80	16.00	4118.13	119.60	212.45	41929.78	92.07	30.32	39.47	9.08	162.00	32.16	141.92	17.12
7446.25	430787.80	16.00	4219.11	120.72	212.36	42145.80	89.44	29.29	38.96	8.71	160.59	30.79	144.36	15.25
7446.31	437003.40	16.00	3930.35	116.74	210.51	42029.10	91.54	30.14	37.27	8.48	160.17	32.12	144.74	14.11
7446.38	435271.20	16.00	3914.15	110.78	199.43	41438.05	98.97	29.96	35.42	8.25	158.77	34.00	145.78	14.45
7446.44	439332.40	16.00	3885.64	106.83	190.43	40721.04	99.79	30.27	33.12	7.96	160.70	32.37	143.64	14.71
7446.51	446153.40	16.00	3961.24	105.12	187.66	41199.47	98.39	33.49	31.92	8.14	160.12	33.69	146.05	14.63
7446.57	438917.80	16.00	3925.64	106.68	190.99	40314.70	98.28	34.72	30.57	7.72	161.81	33.02	143.82	15.61
7446.64	401463.20	16.40	4005.59	106.83	189.00	38717.44	93.58	60.05	30.07	7.52	155.04	31.65	143.06	16.73
7446.71	405810.60	16.40	4106.72	112.55	190.80	37303.38	85.42	171.95	29.87	7.59	155.00	32.34	145.99	15.53
7446.77	408644.00	16.40	4172.63	117.84	194.65	36717.68	85.91	189.31	29.65	7.65	149.78	33.30	149.89	16.21
7446.84	408767.00	16.40	4199.33	119.67	191.59	35113.89	90.97	199.96	55.18	12.06	157.48	58.48	126.76	43.93
7446.90	408101.80	16.40	4306.60	118.46	185.24	34189.11	87.61	207.31	54.41	12.31	152.54	60.35	129.74	44.05
7446.97	435316.20	16.00	5891.43	122.97	187.93	34675.52	87.39	182.50	55.63	12.23	155.80	59.56	131.65	44.17
7447.03	432101.60	16.00	5891.20	117.08	186.37	35871.18	86.43	71.35	57.60	12.06	152.28	57.92	130.43	45.10
7447.10	414341.20	16.20	5834.56	116.77	184.91	35876.67	79.07	53.61	59.06	12.01	154.07	56.32	127.11	44.63
7447.17	380105.80	16.60	5749.44	118.60	189.02	35779.30	66.93	41.77	33.58	7.33	138.80	31.90	145.15	17.05
7447.23	347241.40	17.00	5719.48	114.79	199.52	35371.64	64.52	32.57	33.67	6.94	130.75	30.03	140.37	16.77
7447.30	323673.00	17.20	3942.87	113.99	201.97	35564.60	64.62	28.69	33.11	6.98	129.52	31.29	135.26	15.61

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7447.36	297025.00	17.40	3723.76	113.88	205.07	34705.90	61.45	27.15	30.36	6.38	133.23	30.11	132.91	15.92
7447.43	277757.60	17.60	3631.21	110.11	202.28	36071.46	65.20	25.54	31.34	6.70	129.75	31.00	129.60	15.25
7447.49	247958.00	17.80	3432.90	100.74	194.16	35573.56	65.96	24.82	32.44	6.98	125.70	29.53	130.62	15.78
7447.56	227731.20	18.00	3284.47	102.38	187.08	35754.75	65.17	25.76	33.92	7.23	126.20	28.85	130.15	16.01
7447.62	195750.00	18.40	3269.45	100.33	186.31	35062.65	65.32	26.57	34.11	7.13	123.88	27.67	129.64	16.60
7447.69	185697.20	18.60	3261.52	101.76	178.60	35070.04	71.53	36.43	35.22	13.31	128.32	50.79	106.99	40.55
7447.76	172000.40	18.60	3337.22	103.26	177.78	33944.12	69.93	37.36	33.35	12.39	123.82	50.57	109.48	40.89
7447.82	183755.20	18.60	3353.45	105.52	184.43	34607.76	71.58	38.30	34.62	12.93	130.32	49.11	108.90	41.02
7447.89	187026.20	18.60	3372.22	108.41	177.82	34224.94	74.23	38.00	33.86	13.46	128.70	49.28	110.08	41.57
7447.95	174821.00	18.60	3533.06	104.28	166.73	34110.87	73.67	42.92	34.73	14.34	127.08	48.73	106.53	43.00
7448.02	129653.20	19.00	6690.12	93.55	182.08	26912.92	62.18	28.49	30.02	9.49	97.22	23.17	104.63	16.07
7448.08	96745.20	19.40	6879.53	84.72	184.93	19906.67	57.52	28.52	25.59	8.64	76.95	16.77	80.14	15.15
7448.15	132691.60	19.00	7903.72	90.07	178.64	20701.37	61.18	27.50	25.23	8.70	85.81	17.56	84.35	14.36
7448.22	166648.80	18.60	7899.52	83.66	169.50	21781.84	63.72	27.37	26.74	8.90	96.75	17.55	84.99	13.44
7448.28	220271.60	18.20	7757.27	84.11	173.81	22466.49	62.99	24.06	26.38	8.70	98.10	17.72	90.68	12.71
7448.35	280514.00	17.60	4666.06	95.46	158.39	29013.73	73.68	28.44	29.25	7.44	119.08	22.10	115.21	14.75
7448.41	349415.40	17.00	4401.14	101.67	150.86	35439.47	80.38	27.92	34.12	9.30	143.74	28.59	142.32	15.65
7448.48	356069.80	16.80	3548.20	101.45	149.32	34946.56	79.10	28.47	32.97	8.72	141.74	28.57	143.65	16.75
7448.54	364561.00	16.60	3622.44	105.62	159.94	34426.67	76.82	27.18	32.11	8.62	144.80	29.13	144.36	17.76
7448.61	374352.00	16.40	3654.43	108.26	157.81	34354.11	77.93	25.22	31.40	8.42	158.57	30.38	147.75	17.48
7448.67	388896.20	16.20	3638.44	105.71	160.83	35487.98	78.42	25.76	32.14	8.88	166.54	27.98	149.51	17.96
7448.74	395260.00	16.00	3592.99	103.99	162.77	38013.91	79.90	26.47	34.33	8.54	172.19	27.99	146.26	17.40
7448.81	396206.40	16.00	3563.26	99.86	169.88	39208.43	80.07	26.58	34.77	8.81	174.14	29.22	144.51	16.68
7448.87	395120.00	16.20	3488.45	97.29	171.26	41547.01	85.52	28.18	36.12	8.97	168.73	29.51	141.70	16.02
7448.94	403281.40	16.20	3487.92	101.28	191.57	43405.13	87.94	30.31	35.19	8.86	166.95	30.14	137.02	14.44
7449.00	414548.40	16.20	3541.67	102.94	213.23	46323.82	92.75	31.14	39.84	8.89	174.21	33.81	134.34	13.93
7449.07	416971.60	16.20	3573.80	104.55	232.37	45233.32	92.01	31.33	36.44	8.34	186.32	36.06	131.85	14.14
7449.13	424317.80	16.20	6049.20	101.92	254.18	44882.39	92.71	34.54	37.43	7.99	185.63	38.55	126.19	12.97
7449.20	430918.20	16.00	6121.34	103.09	257.40	43614.54	89.41	45.74	36.42	14.82	193.43	67.89	107.66	34.99
7449.27	424115.20	16.00	6157.29	101.96	248.55	42661.78	94.69	45.04	38.95	14.73	187.81	68.19	107.66	36.01
7449.33	419627.20	16.00	6230.05	103.81	229.28	40567.82	87.72	46.01	37.58	14.69	183.39	64.75	109.68	36.61
7449.40	422775.00	16.00	6364.02	108.85	217.55	41610.13	90.63	46.67	43.31	15.56	172.45	61.53	113.46	36.21
7449.46	426573.20	16.00	3985.89	113.29	196.69	41717.83	89.30	43.17	42.83	15.47	174.84	57.29	121.51	37.67

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7449.53	428196.80	16.00	4019.11	117.95	191.56	41711.42	87.65	32.53	41.87	7.73	171.05	28.84	142.89	15.61
7449.59	431606.20	16.00	4019.33	120.25	187.75	41217.46	79.65	31.12	40.40	7.41	174.92	28.24	146.05	15.59
7449.66	430193.00	16.00	3978.80	123.24	189.45	40873.05	82.81	29.41	38.84	7.10	169.98	29.11	145.26	15.74
7449.72	425423.00	16.00	3966.04	123.74	186.95	39365.93	79.76	28.37	34.47	5.95	168.81	29.57	146.21	15.99
7449.79	415980.00	16.00	3836.46	123.57	181.16	38588.71	77.78	28.16	34.24	6.07	163.34	30.47	146.15	14.99
7449.86	410947.80	16.00	3847.45	122.54	180.48	38050.55	75.42	27.48	33.97	6.31	163.11	29.53	146.63	14.58
7449.92	405037.00	16.00	3827.20	121.61	175.91	37339.54	72.92	27.21	33.18	6.47	163.66	27.78	145.54	14.96
7449.99	399671.80	16.00	3754.26	115.48	173.10	36515.41	70.31	27.46	32.21	6.45	161.40	28.08	145.35	14.16
7450.05	397577.20	16.00	3749.81	112.75	172.81	36091.43	71.15	27.20	31.92	6.79	166.79	27.84	145.27	14.34
7450.12	402237.20	16.00	4588.93	115.66	179.94	35617.16	72.30	28.05	31.06	6.60	165.73	26.60	144.73	15.71
7450.18	406786.80	16.00	4606.87	117.41	184.56	36090.67	75.80	27.83	32.82	6.44	171.41	27.05	146.03	16.32
7450.25	412036.40	16.00	4634.77	117.03	188.17	36646.72	77.20	27.99	33.59	6.52	174.90	27.02	147.67	16.46
7450.31	408955.20	16.20	4759.72	123.25	188.98	36091.90	73.97	26.15	32.60	6.92	185.97	26.94	148.12	16.74
7450.38	403548.80	16.40	4686.72	127.02	187.24	36178.74	74.19	26.88	32.98	7.23	182.85	28.32	145.77	16.21
7450.45	405499.20	16.40	3997.99	127.70	188.28	38541.59	74.52	27.15	35.65	7.72	187.18	29.01	144.98	15.39
7450.51	402142.20	16.40	3948.94	122.10	186.16	38156.56	73.73	28.40	35.10	7.93	182.92	28.26	143.84	14.78
7450.58	396827.60	16.40	3983.31	121.11	185.52	37536.49	73.10	28.39	34.66	7.58	176.42	28.40	145.35	14.56
7450.64	393261.40	16.40	3940.01	117.77	188.92	36699.93	72.66	29.83	33.23	7.13	173.58	27.19	141.75	13.52
7450.71	393537.80	16.40	4083.61	118.76	190.40	36366.61	71.86	29.88	32.65	7.08	173.89	25.86	141.86	14.27
7450.77	377240.20	16.60	4027.40	114.44	185.85	33451.06	70.78	28.20	29.35	6.12	173.08	25.72	139.92	14.39
7450.84	365402.80	16.80	4111.78	114.27	184.48	32709.71	70.56	25.72	28.20	6.30	168.81	25.58	138.75	14.26
7450.91	358639.00	17.00	4156.50	116.71	183.47	34517.87	71.68	26.07	31.06	6.83	172.99	26.66	137.30	14.54
7450.97	340866.40	17.20	4141.43	113.02	180.67	33969.30	69.29	25.97	31.30	6.70	166.19	26.13	140.12	15.04
7451.04	323467.20	17.20	4018.76	109.03	175.09	33062.19	64.26	25.01	30.30	6.22	167.48	25.88	140.80	15.06
7451.10	306298.40	17.40	4055.54	109.44	172.22	33128.51	57.58	25.61	30.44	6.10	157.95	25.37	139.16	13.77
7451.17	303895.60	17.40	4019.51	112.96	172.28	32695.52	55.61	26.75	29.58	5.54	157.96	24.69	140.22	13.60
7451.23	303415.20	17.40	4008.75	110.33	177.62	30600.16	53.69	26.61	25.42	5.15	150.99	24.52	137.39	13.21
7451.30	322339.40	17.20	3957.92	115.77	175.38	32524.27	58.80	27.37	25.98	5.34	149.00	25.00	135.50	13.09
7451.36	340153.20	17.20	3921.44	111.25	184.26	34471.35	66.60	39.22	26.14	9.08	146.66	48.88	113.72	36.93
7451.43	357948.20	17.00	3811.92	107.79	189.60	35418.98	75.75	39.38	24.68	9.87	147.10	51.22	111.61	38.60
7451.50	365863.00	17.00	3733.23	105.85	193.59	37037.17	79.12	39.01	26.63	9.61	148.73	52.70	108.61	38.09
7451.56	374015.00	16.80	3712.93	105.53	194.39	38985.24	82.91	39.98	27.56	9.73	150.10	53.37	105.93	38.16
7451.63	370049.80	16.80	3765.67	100.77	204.66	39858.03	83.12	40.65	31.14	9.83	152.98	54.63	106.61	37.83

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7451.69	354960.60	16.80	3869.86	103.56	201.83	39759.58	81.02	29.10	32.90	6.95	149.63	31.23	125.49	13.49
7451.76	373280.00	16.60	4048.63	110.83	201.51	40883.44	81.53	29.10	37.68	7.07	157.36	30.20	131.68	13.10
7451.82	385653.20	16.40	4151.96	114.05	201.50	40909.46	82.60	29.36	38.41	7.53	156.55	30.64	134.71	13.48
7451.89	389104.20	16.40	4167.83	110.28	194.37	39068.24	80.39	28.31	38.71	7.23	159.28	29.70	140.07	13.81
7451.96	398777.00	16.20	4118.89	112.95	184.22	37180.63	81.45	27.50	36.21	7.05	159.51	29.77	142.24	14.34
7452.02	421353.80	16.00	4084.32	112.86	183.33	36675.00	79.55	28.17	36.34	7.23	163.00	29.24	145.17	14.32
7452.09	413887.40	16.00	4031.51	111.32	179.25	35288.94	77.40	29.42	34.45	7.29	157.01	28.23	145.75	14.36
7452.15	412694.80	16.00	4313.98	111.91	171.51	34761.26	78.77	30.31	34.11	7.41	164.13	27.22	146.82	15.30
7452.22	414772.00	16.00	4278.36	114.90	176.01	35595.07	80.03	30.67	34.39	7.59	160.26	26.66	149.24	15.37
7452.28	414992.80	16.00	4354.24	116.33	175.36	36732.48	77.45	29.56	36.61	7.33	156.90	25.87	150.02	15.39
7452.35	411796.60	16.00	4364.56	118.06	175.44	37662.26	76.25	29.16	37.71	6.97	153.48	26.37	149.67	15.79
7452.41	418305.40	16.00	4323.37	117.11	179.66	37884.89	72.78	28.32	36.39	6.49	157.08	26.05	149.21	16.44
7452.48	420522.00	16.00	4013.65	113.66	188.89	38127.34	67.25	28.14	35.93	6.59	149.56	24.73	148.09	15.97
7452.55	423256.80	16.00	3989.86	113.59	190.48	38387.64	67.50	34.81	35.86	7.04	154.15	24.58	145.96	15.82
7452.61	428687.80	16.00	3867.00	109.47	197.15	38533.52	68.35	47.38	33.99	8.05	161.09	25.58	141.91	15.13
7452.68	453246.80	15.80	3915.06	108.46	209.46	48201.15	83.53	63.81	41.04	9.93	162.45	25.56	137.02	14.50
7452.74	448504.00	15.80	3886.84	104.97	209.33	49051.07	88.42	80.67	41.95	10.25	159.07	25.87	133.73	13.99
7452.81	441555.60	15.80	3842.75	101.51	208.10	48670.17	90.88	114.94	40.75	9.83	159.39	26.47	132.93	14.32
7452.87	434592.20	15.80	3889.11	102.55	205.24	48018.73	92.88	123.23	39.83	9.32	153.97	26.30	133.73	14.21
7452.94	438461.40	15.80	4004.92	105.28	205.66	48286.77	99.63	129.31	39.15	8.62	155.29	25.34	135.90	15.48
7453.01	420166.20	16.00	3981.20	107.32	191.34	38674.06	89.35	142.34	31.53	6.34	160.68	24.91	140.08	16.95
7453.07	421230.60	16.00	4065.28	111.82	189.85	38518.19	89.38	150.65	31.92	7.00	167.71	24.79	142.90	16.77
7453.14	425816.20	16.00	9085.98	117.05	185.61	38250.72	92.15	134.10	32.87	7.04	169.20	24.86	145.19	15.52
7453.20	431473.80	16.00	9069.59	118.24	182.20	38125.32	91.50	127.22	33.51	7.16	175.61	25.51	143.96	14.91
7453.27	408545.80	16.20	9093.72	118.69	180.16	37019.02	86.82	116.41	33.97	7.09	166.58	25.45	143.99	14.85
7453.33	397221.80	16.40	9058.49	114.89	184.14	36534.33	86.54	96.03	33.18	7.30	155.31	24.51	144.09	14.33
7453.40	384389.20	16.60	8986.09	110.47	185.47	35957.44	88.23	75.16	31.82	6.12	147.03	24.39	142.19	14.25
7453.46	374615.40	16.80	4016.91	110.25	192.16	37448.95	84.58	61.52	33.01	6.22	141.57	23.98	135.77	15.30
7453.53	365146.60	17.00	4023.77	106.04	195.31	39038.46	84.91	61.92	33.42	6.38	130.35	22.77	129.71	15.02
7453.60	376577.60	16.80	4055.79	110.17	190.23	38979.35	84.77	55.24	32.32	5.97	130.48	22.07	130.47	14.16
7453.66	375962.00	16.80	4092.29	111.85	187.56	38142.82	83.61	46.98	31.34	5.25	131.87	23.32	132.95	14.91
7453.73	369707.40	16.80	4108.87	114.69	186.22	37710.15	80.92	42.70	30.07	5.28	137.14	23.71	132.80	13.91
7453.79	368156.00	16.80	4137.28	114.53	182.06	36971.33	86.06	39.14	28.16	4.91	138.72	23.27	139.07	14.44

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7453.86	364386.60	16.80	4351.35	121.16	187.60	35987.58	83.24	31.55	27.15	4.67	145.72	24.13	147.43	16.06
7453.92	352407.60	17.00	4339.47	122.73	193.40	36277.50	82.03	31.16	28.17	4.57	147.56	23.83	144.61	16.10
7453.99	346169.60	17.00	4452.42	123.76	195.00	38220.67	86.57	30.87	32.18	3.75	147.58	22.51	145.01	15.75
7454.06	359065.40	16.80	4459.97	125.99	194.54	41982.60	89.65	32.12	37.43	4.36	155.30	23.19	144.38	16.84
7454.12	357663.20	16.80	4368.71	122.81	195.29	42738.13	85.15	30.18	39.88	4.32	161.70	24.93	141.90	15.98
7454.19	350443.80	16.80	4188.62	128.19	195.14	41122.67	78.59	28.89	38.76	3.66	167.60	30.12	139.60	14.50
7454.25	368377.80	16.60	4221.22	125.80	198.15	46674.63	83.87	31.09	48.37	6.40	171.66	29.38	141.89	15.68
7454.32	360778.60	16.60	4077.35	129.71	195.85	46703.08	82.80	30.78	45.10	8.05	170.42	29.39	139.46	14.39
7454.38	368649.00	16.60	4095.27	132.75	197.82	45533.75	81.01	30.24	44.08	9.96	164.59	28.17	143.47	15.48
7454.45	374142.00	16.40	4171.80	146.23	203.32	44773.10	79.70	33.51	42.03	11.50	163.42	31.92	143.75	15.49
7454.51	382602.00	16.40	4121.70	142.45	210.20	45125.95	82.01	41.19	42.26	12.04	170.95	31.37	144.54	15.30
7454.58	378471.60	16.40	3787.12	135.64	269.47	39927.55	72.62	37.65	29.53	9.08	183.47	47.57	135.15	12.57
7454.65	377585.00	16.40	3544.90	125.57	346.75	38639.49	61.65	35.86	29.10	8.27	205.54	62.38	126.38	11.41
7454.71	344021.80	16.80	3400.22	112.86	394.83	35420.59	48.06	33.17	21.44	4.68	208.54	69.13	121.08	8.72
7454.78	314559.00	17.20	3177.30	95.54	440.91	34942.86	37.53	28.59	16.26	2.12	227.09	70.42	115.93	10.09
7454.84	291113.00	17.40	3088.34	84.72	479.32	34459.11	29.79	16.57	15.57	0.96	206.92	94.82	98.94	31.93
7454.91	268420.20	17.80	3292.99	81.50	468.26	34056.65	20.02	17.32	13.81	-0.04	199.64	86.10	103.46	32.79
7454.97	271542.40	17.80	3379.52	77.01	463.15	33620.78	12.46	17.00	8.96	-0.54	199.50	81.33	105.94	35.02
7455.04	256956.20	17.80	3429.19	76.24	477.05	35649.99	12.32	18.87	9.31	-0.39	211.42	81.05	108.05	36.90
7455.10	212348.00	18.20	6382.98	63.34	335.13	28541.40	11.93	24.68	4.85	1.91	161.21	70.78	94.97	31.86
7455.17	167782.60	18.60	9324.39	56.90	268.89	22810.61	22.42	29.79	0.03	4.81	141.09	37.13	88.76	15.32
7455.24	115666.00	19.00	12811.36	31.27	195.91	15930.23	34.04	23.67	-1.77	6.28	104.15	25.08	75.89	14.50
7455.30	136805.40	18.80	13084.36	34.32	190.92	18299.59	35.36	25.67	-2.68	5.99	106.82	24.62	76.53	13.05
7455.37	183948.40	18.40	13076.77	35.59	186.49	21285.42	38.23	26.25	-1.51	6.12	103.52	23.03	76.50	13.10
7455.43	250880.80	17.80	10186.09	44.92	345.62	29152.36	38.83	23.27	3.98	4.28	150.45	34.76	89.57	17.27
7455.50	311136.80	17.20	7185.79	48.78	435.33	36468.19	30.05	22.02	9.09	1.46	190.86	49.06	105.47	12.91
7455.56	371356.60	16.60	3506.68	72.32	512.43	42173.25	19.50	27.36	11.24	0.61	243.94	70.28	116.19	12.65
7455.63	366456.20	16.60	3057.72	67.82	500.98	38487.68	21.97	23.10	16.69	1.27	212.18	120.91	109.68	28.37
7455.70	369151.80	16.60	2430.08	55.89	503.68	30162.86	18.79	19.67	16.12	1.32	237.87	124.75	87.45	24.22
7455.76	383275.00	16.40	1842.97	45.06	487.56	23853.30	16.41	16.33	14.30	0.91	244.30	119.27	70.63	21.91
7455.83	404490.20	16.20	1315.75	34.05	476.55	18384.26	15.38	14.67	11.25	1.01	249.55	110.17	52.14	18.93
7455.89	425809.60	16.00	865.76	20.23	481.31	14848.87	18.02	13.27	11.50	1.24	243.50	95.81	36.69	18.27
7455.96	435953.40	16.00	506.03	9.77	516.48	13137.28	16.56	14.77	7.88	0.97	273.68	41.60	26.11	0.90

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7456.02	433669.80	16.00	1475.72	35.84	465.62	21110.66	38.85	29.95	13.53	1.69	238.36	32.48	50.97	6.09
7456.09	436307.80	16.00	2414.50	62.47	414.10	28416.80	55.91	61.25	20.62	3.18	217.96	30.49	80.57	8.72
7456.15	432736.20	16.00	3329.73	90.83	348.08	33660.41	68.66	87.26	24.08	3.73	198.47	30.08	109.68	12.86
7456.22	432084.80	16.00	4285.55	118.21	289.09	40795.24	84.49	113.21	30.73	5.42	179.94	29.18	134.94	15.90
7456.29	436436.20	16.00	5134.82	145.38	197.68	46169.47	100.80	133.47	34.49	6.41	165.27	25.30	158.64	18.78
7456.35	442431.60	16.00	8730.13	142.78	182.38	43261.38	97.42	152.78	32.07	6.50	165.69	25.25	159.07	17.41
7456.42	439925.40	16.00	8598.15	138.37	174.37	42055.48	95.22	137.26	31.91	6.57	160.03	26.03	154.22	17.80
7456.48	440590.20	16.00	8458.70	132.61	173.72	41931.82	97.36	163.12	32.10	6.91	164.37	26.60	152.75	16.87
7456.55	438009.60	16.00	8212.67	128.83	168.66	40673.17	98.09	195.49	31.62	6.40	165.62	28.25	151.28	16.50
7456.61	431057.40	16.00	8070.54	125.07	172.03	39678.22	101.78	792.93	31.18	6.40	159.86	27.25	150.24	15.64
7456.68	436236.80	15.80	4200.57	126.13	180.65	42746.67	103.70	779.41	36.66	7.15	158.40	27.53	146.21	16.26
7456.75	436824.40	15.80	4132.08	127.27	181.74	41989.34	103.52	811.53	34.96	7.12	162.48	28.81	147.27	16.05
7456.81	415588.40	16.00	3967.88	120.96	183.77	44259.99	103.39	1006.64	36.77	6.80	159.56	30.24	144.43	15.75
7456.88	385598.80	16.40	3867.46	118.61	174.18	42328.82	99.17	1010.26	34.78	6.74	162.38	29.75	141.90	16.28
7456.94	352472.60	16.80	3804.74	117.14	159.59	40899.67	92.85	448.50	37.05	6.95	163.48	29.39	138.41	16.83
7457.01	312358.80	17.40	3728.82	108.95	152.67	36504.67	83.34	482.55	31.55	6.67	165.22	29.31	139.54	16.57
7457.07	282047.40	17.80	3535.16	106.30	148.80	35888.22	94.56	444.42	68.16	10.61	168.53	57.21	113.62	39.04
7457.14	279915.00	17.80	3498.71	105.11	140.75	33488.35	95.20	240.77	67.59	11.61	174.88	55.65	111.38	39.89
7457.20	282051.40	17.80	3453.32	103.54	145.55	33892.00	95.58	216.60	67.89	11.67	174.57	55.18	111.46	39.36
7457.27	311564.40	17.40	3952.51	103.87	151.91	35504.54	100.66	185.08	67.41	12.19	179.66	56.31	112.11	40.07
7457.34	347694.80	17.00	4060.68	110.29	153.40	38097.27	109.79	142.51	71.69	12.81	175.12	58.13	114.28	39.64
7457.40	380038.20	16.60	4264.02	116.49	159.99	40506.70	104.59	170.25	37.73	9.13	168.41	29.86	137.33	17.00
7457.47	399979.00	16.40	4350.37	123.60	165.88	40486.61	103.74	229.55	35.95	8.91	163.90	30.04	141.16	16.59
7457.53	425148.40	16.00	4516.72	128.76	167.60	41236.96	107.49	227.36	36.39	8.93	161.45	30.24	143.21	16.97
7457.60	424130.80	16.00	4111.22	126.92	182.44	40377.60	103.61	302.66	35.31	8.71	159.06	30.53	148.58	16.73
7457.66	411397.40	16.00	4052.16	123.82	179.29	38878.95	100.15	348.62	33.02	7.84	155.39	31.71	148.71	15.80
7457.73	409908.40	16.00	4071.83	119.09	179.40	38117.99	95.81	345.19	32.07	7.56	159.95	32.16	149.10	15.31
7457.80	411360.00	16.00	4155.77	118.72	181.23	38545.40	97.60	327.24	34.35	7.62	157.89	32.38	149.65	14.56
7457.86	409671.40	16.00	4137.31	120.87	187.86	38416.67	94.10	326.98	34.31	7.76	158.65	32.33	150.65	14.96
7457.93	403537.20	16.20	4037.04	120.08	171.22	37536.18	92.05	285.11	33.60	7.60	163.68	33.26	150.69	15.09
7457.99	402002.20	16.20	4014.18	116.52	169.47	37040.68	89.77	243.90	32.75	7.98	168.26	31.46	148.25	15.94
7458.06	390595.40	16.40	3918.76	118.14	169.23	36618.71	87.99	235.00	31.45	8.14	168.77	30.72	146.60	16.15
7458.12	378975.60	16.60	3830.09	111.00	168.04	36515.90	82.95	189.93	29.88	7.93	168.78	30.50	140.94	16.07

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7458.19	366020.40	16.80	3780.83	105.06	163.08	36705.40	82.39	169.29	28.40	7.42	166.25	30.46	138.51	15.03
7458.25	365979.80	16.80	3790.58	110.86	169.73	37892.53	83.97	162.63	29.12	7.98	165.92	30.12	134.44	14.52
7458.32	360261.40	17.00	3795.94	116.83	172.30	37214.38	83.42	198.50	27.56	7.34	168.80	31.40	136.19	14.18
7458.39	361072.00	17.00	3822.01	115.96	173.75	37508.00	86.73	233.85	28.37	7.70	171.10	30.63	137.12	14.00
7458.45	366822.60	17.00	3817.06	120.42	174.89	37326.62	93.37	304.13	29.14	7.21	173.73	32.36	139.04	14.20
7458.52	379081.60	16.80	3818.02	118.22	180.77	37828.56	93.95	378.13	30.77	7.39	177.96	31.74	140.14	14.37
7458.58	385193.60	16.60	3912.70	119.93	180.35	36238.74	95.19	356.08	28.86	6.39	171.82	31.74	142.57	13.52
7458.65	396828.20	16.40	3900.72	120.94	181.10	37325.28	96.18	365.44	30.80	6.73	173.94	31.98	144.27	14.27
7458.71	408694.20	16.20	3874.37	120.77	181.43	38424.70	98.02	309.82	31.18	6.27	175.45	32.53	143.56	15.06
7458.78	420559.60	16.00	3954.06	123.45	187.02	39656.85	99.72	205.08	31.35	6.59	174.66	30.91	146.46	14.50
7458.85	426116.00	16.00	3815.15	124.96	187.08	39331.21	105.65	120.50	29.30	6.25	176.88	33.29	142.05	14.18
7458.91	445190.60	15.80	3766.57	124.84	191.20	47210.86	115.53	95.90	39.53	6.56	188.81	33.09	139.77	14.68
7458.98	451298.60	15.80	3851.87	126.72	189.19	49289.81	116.88	38.04	42.56	7.14	185.80	32.14	136.59	14.82
7459.04	453592.20	15.80	3852.96	126.34	189.30	49181.94	119.79	38.43	46.94	6.94	182.70	32.34	137.79	14.24
7459.11	469974.40	15.60	3796.16	124.38	191.01	55408.20	130.44	38.62	62.21	7.73	183.97	33.14	136.73	14.34
7459.17	484953.20	15.40	4037.69	130.90	192.06	60540.16	144.78	67.47	64.06	22.54	186.99	61.71	120.58	39.31
7459.24	471177.40	15.60	4152.41	127.45	186.28	54874.71	139.67	66.82	58.08	22.21	176.56	61.83	124.14	39.15
7459.30	466354.40	15.60	10119.00	121.75	184.35	52385.52	142.04	72.62	58.22	21.70	175.71	62.54	127.33	38.87
7459.37	468763.60	15.60	10153.46	125.11	179.61	56764.15	151.88	88.98	54.45	42.33	181.51	92.97	103.76	61.18
7459.44	448734.20	15.80	10093.24	127.39	169.96	50226.38	137.48	90.71	42.93	41.91	188.40	93.27	103.25	61.15
7459.50	443809.60	16.00	9994.11	126.93	167.56	46593.93	123.34	61.38	46.06	27.75	187.68	63.33	122.62	37.59
7459.57	446637.00	16.00	9823.18	123.53	169.71	46736.55	123.24	61.80	46.32	28.06	190.01	63.66	122.73	37.69
7459.63	450674.80	16.00	3813.42	127.32	175.65	49232.96	127.04	56.75	46.85	28.34	192.91	63.04	119.66	37.24
7459.70	444575.20	16.00	3733.40	120.48	176.42	44746.75	117.90	40.61	48.11	8.36	187.87	33.18	143.28	14.72
7459.76	445611.80	16.00	3802.77	120.22	176.02	44817.70	121.44	36.37	46.47	8.02	181.60	33.34	144.70	15.12
7459.83	437464.80	16.00	3898.33	120.45	172.25	44244.45	119.29	37.88	43.24	6.88	173.20	33.55	144.95	14.58
7459.90	440794.00	16.00	4045.01	125.81	169.71	46062.92	118.39	37.92	45.56	7.45	173.84	33.62	142.56	14.54
7459.96	435531.00	16.00	3888.55	123.76	164.86	44664.73	115.54	36.91	45.74	7.60	179.49	33.81	144.57	15.06
7460.03	439037.80	16.00	4062.39	127.95	163.66	46044.07	113.25	37.44	47.80	7.91	180.85	33.80	142.56	14.69
7460.09	432966.40	16.00	3944.05	121.10	160.09	45896.82	110.17	39.24	48.21	8.32	188.64	33.01	141.39	14.95
7460.16	425668.00	16.00	3733.27	114.81	156.67	44897.92	110.85	37.55	48.38	9.65	200.49	33.25	140.19	14.43
7460.22	389550.80	16.20	3499.19	110.00	151.99	41591.53	113.17	49.52	43.59	14.60	207.12	59.14	119.29	40.35
7460.29	394179.80	16.20	4031.17	109.50	154.10	41315.22	111.96	50.48	40.52	14.40	206.17	59.78	117.47	40.58

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7460.35	394409.60	16.20	3948.14	110.61	155.90	40901.36	116.43	49.83	37.70	14.24	199.00	59.48	120.19	41.71
7460.42	398612.00	16.20	4147.41	117.41	158.47	40617.19	118.33	51.23	36.04	14.38	187.59	59.08	121.37	41.99
7460.49	401408.00	16.20	4325.06	124.06	163.81	40463.13	119.24	51.69	35.74	13.68	178.35	58.83	122.26	42.25
7460.55	436599.80	16.00	4355.03	123.02	170.08	42245.71	119.44	39.85	40.17	8.47	176.85	33.13	145.64	16.96
7460.62	446534.80	15.80	3966.10	123.24	177.94	50599.67	131.46	41.66	50.38	9.58	169.10	33.51	145.54	16.91
7460.68	449410.60	15.80	3803.93	121.22	181.56	52701.62	131.62	42.74	55.73	9.17	170.20	34.37	141.34	16.06
7460.75	471788.20	15.60	3745.64	125.62	198.60	62644.02	143.34	43.95	63.66	9.09	172.88	36.14	136.41	14.92
7460.81	465653.80	15.80	3631.14	120.07	187.29	62073.26	136.55	44.55	62.16	8.96	183.79	35.52	138.29	15.23
7460.88	457138.80	15.80	3652.88	124.35	183.11	62485.76	132.89	44.91	60.74	8.24	187.01	36.02	135.19	14.27
7460.94	444978.20	16.00	3730.04	125.88	181.26	56754.85	125.05	42.56	50.97	7.23	185.61	36.64	132.24	13.26
7461.01	429100.40	16.00	3628.72	114.67	180.71	54634.80	119.79	59.54	45.20	17.85	190.89	62.58	113.66	35.00
7461.08	396821.40	16.40	3298.05	100.26	164.21	45512.52	108.99	57.11	39.51	17.65	196.70	62.23	115.19	35.37
7461.14	386169.60	16.40	3320.41	102.85	169.05	45410.82	108.08	56.23	40.98	17.34	189.40	62.38	112.57	34.93
7461.21	381464.00	16.40	3779.95	100.97	171.23	45264.91	108.05	53.98	41.79	17.45	179.83	60.84	115.16	35.65
7461.27	366808.80	16.60	3732.72	97.05	163.73	42050.72	102.98	53.31	42.61	17.41	178.44	58.36	117.03	36.98
7461.34	362658.00	16.80	3949.51	105.98	162.03	40284.59	100.36	34.75	43.33	6.64	169.64	31.15	138.35	14.60
7461.40	383382.40	16.60	4269.47	116.11	165.76	43735.22	103.77	34.81	48.22	7.04	161.91	29.16	136.98	15.11
7461.47	407213.80	16.40	4369.64	117.21	171.87	47054.92	111.59	33.62	51.23	7.80	157.54	28.67	139.68	16.30
7461.54	408899.20	16.40	3920.71	117.41	170.57	45322.60	108.57	34.90	47.93	8.21	159.29	28.08	139.80	16.47
7461.60	419956.40	16.20	3957.59	124.86	172.68	46682.49	107.63	34.78	47.79	7.87	163.49	28.20	139.07	15.69
7461.67	425737.20	16.00	3931.51	131.38	172.64	45985.81	109.62	34.79	44.70	7.62	170.93	28.40	135.39	17.21
7461.73	409807.60	16.00	3716.67	125.38	171.10	41441.67	110.42	41.32	36.59	6.65	172.43	28.30	138.23	17.88
7461.80	406060.80	16.00	3455.57	118.56	190.48	42648.22	115.39	43.57	39.41	7.28	179.36	29.36	135.67	16.01
7461.86	415243.20	16.00	3326.42	117.72	198.52	44155.46	129.03	44.33	40.42	7.29	190.19	30.24	133.50	16.19
7461.93	414571.20	16.00	3081.22	111.31	202.09	42872.12	135.85	44.93	38.56	7.12	199.29	30.39	136.76	15.77
7461.99	422782.60	16.00	3110.36	112.13	205.42	44375.81	139.61	43.89	41.73	7.11	199.31	29.75	140.80	15.35
7462.06	432421.80	16.00	3290.29	123.13	210.51	47753.48	139.30	38.38	46.91	7.75	198.61	30.50	140.70	14.50
7462.13	445082.80	15.80	4322.00	129.17	189.21	46002.12	136.36	39.14	45.87	7.14	198.59	30.16	142.97	15.78
7462.19	429777.00	16.00	4023.30	113.69	232.63	41692.70	119.02	36.07	41.93	5.89	187.89	27.10	131.48	14.45
7462.26	426697.60	16.00	4203.38	109.06	231.68	45347.05	118.37	35.35	45.89	6.85	175.92	28.56	128.75	15.37
7462.32	423844.80	16.00	4180.91	101.78	230.52	46172.13	117.86	36.46	47.47	6.64	172.67	29.25	127.38	14.18
7462.39	395997.00	16.20	4132.34	92.19	226.07	41468.71	111.58	41.50	44.74	10.60	179.34	55.26	105.65	36.04
7462.45	350730.60	16.80	3189.49	84.61	223.27	37522.46	99.01	43.10	38.43	9.92	168.58	54.34	102.52	34.15

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7462.52	347849.20	16.80	3695.65	97.82	173.47	38875.60	98.37	51.37	39.98	10.35	169.01	56.42	115.34	34.89
7462.59	339053.00	17.00	3672.18	103.34	173.10	33871.62	89.38	59.71	32.93	9.06	164.60	53.95	112.12	34.42
7462.65	320440.00	17.20	3597.83	96.20	168.15	30523.03	78.61	76.27	26.43	9.16	157.61	53.88	112.42	34.61
7462.72	328330.20	17.20	3581.68	95.00	170.94	30752.19	71.73	80.36	22.06	4.69	153.89	26.50	131.13	12.90
7462.78	339409.80	17.00	3582.75	99.43	175.40	30592.42	70.33	85.19	19.40	4.58	156.55	26.57	130.46	14.45
7462.85	329917.60	17.00	3616.80	110.47	180.67	30094.73	68.88	100.76	16.73	4.06	154.28	27.15	128.69	14.98
7462.91	328039.60	17.00	3643.57	106.98	178.23	29408.73	67.06	116.10	16.61	3.61	157.82	29.66	131.52	15.72
7462.98	330183.40	17.00	3586.51	109.92	174.20	29025.46	68.79	124.35	16.19	3.00	160.55	30.12	130.98	16.94
7463.04	348063.20	16.80	3721.57	115.26	179.00	29447.34	75.54	147.75	15.41	2.84	158.00	32.37	134.79	17.93
7463.11	361735.60	16.80	3769.27	116.97	178.81	30263.19	79.58	157.12	16.31	2.92	161.77	34.47	136.26	17.20
7463.18	369894.00	16.80	4965.24	113.58	175.35	30753.16	83.10	152.88	17.43	3.30	157.47	34.86	136.11	18.01
7463.24	364203.20	16.80	5067.18	118.94	174.89	30957.17	82.75	143.51	16.47	3.23	158.67	34.18	137.45	17.78
7463.31	361626.80	16.80	5223.63	129.40	180.57	30823.83	81.51	131.52	16.49	2.92	166.91	32.63	138.61	18.64
7463.37	335227.40	17.00	4931.92	119.26	165.00	29182.69	75.05	112.32	16.18	2.75	171.07	31.52	137.38	17.73
7463.44	335611.00	17.00	4924.85	121.41	159.08	29912.61	80.55	137.04	17.41	3.21	174.27	30.57	141.58	18.10
7463.50	335155.80	17.00	3560.90	111.09	155.00	30613.60	83.95	159.05	18.25	3.47	175.78	30.63	142.46	16.42
7463.57	343533.60	17.00	3380.93	104.56	199.55	34369.99	85.59	160.42	19.38	3.57	176.61	30.87	139.52	15.75
7463.64	361400.80	16.80	3212.77	96.84	202.59	36143.01	95.20	164.58	20.30	4.20	181.14	36.49	139.79	13.58
7463.70	375516.40	16.80	3363.95	104.01	206.67	37302.40	101.64	164.21	21.10	4.18	185.33	38.42	142.01	13.68
7463.77	370316.40	16.80	3517.31	104.75	209.44	36564.87	97.53	138.03	19.68	3.89	178.66	38.26	139.31	13.41
7463.83	391281.20	16.60	3584.71	107.25	213.93	38091.95	100.97	99.67	21.80	3.90	184.32	37.51	139.38	15.29
7463.90	398028.00	16.40	3691.04	106.95	179.15	35151.67	102.75	1244.01	20.60	3.15	188.96	39.00	139.53	15.64
7463.96	387174.60	16.60	3672.24	103.56	196.82	35177.21	95.42	1370.22	20.23	2.77	211.66	40.12	133.93	16.34
7464.03	378926.20	16.60	3832.15	103.33	203.64	35695.46	91.82	1357.80	20.47	2.46	202.54	38.63	130.03	16.04
7464.09	369207.60	16.60	3792.81	98.93	208.58	36543.87	92.22	1347.98	20.95	1.94	198.41	37.64	127.03	15.93
7464.16	332300.80	17.00	6078.86	95.56	202.70	34071.27	88.22	1352.62	17.60	1.52	189.95	38.60	124.02	15.64
7464.23	330318.20	17.20	6022.21	98.57	208.99	34220.52	86.42	247.91	19.40	2.28	196.04	37.87	124.55	15.43
7464.29	334292.40	17.20	6146.34	100.66	189.80	33503.75	95.00	111.50	20.40	2.27	164.25	31.71	126.10	15.17
7464.36	347375.60	17.00	6116.09	99.65	185.03	33878.62	103.80	111.61	20.58	2.63	160.90	30.97	127.39	15.12
7464.42	359401.40	17.00	5932.22	95.90	181.21	33193.32	107.74	105.83	20.52	2.97	171.62	32.70	127.04	15.24
7464.49	380577.60	16.80	3686.03	105.78	186.44	33933.14	113.39	109.60	21.02	2.80	171.99	34.17	130.22	13.24
7464.55	389065.60	16.60	3677.72	107.08	179.84	34546.40	126.38	54.42	21.77	3.25	165.41	32.69	132.44	12.91
7464.62	403074.40	16.40	3685.64	108.85	185.14	37316.75	133.96	48.19	26.34	3.93	169.60	32.02	133.99	13.41

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7464.69	402938.80	16.40	3552.83	116.24	184.06	38213.40	139.55	45.49	27.61	4.69	173.57	31.90	134.68	12.38
7464.75	403498.00	16.40	3577.61	124.70	187.05	39304.78	141.51	46.15	29.23	4.85	178.07	29.81	137.24	13.00
7464.82	399011.80	16.40	3342.86	118.36	186.94	39317.11	140.41	36.39	30.42	5.45	195.76	28.63	136.64	13.43
7464.88	387128.20	16.60	3281.33	122.04	175.97	38957.37	132.29	35.00	29.90	5.20	200.29	28.81	136.99	13.25
7464.95	373824.40	16.60	3277.66	133.89	176.79	37411.59	124.59	34.53	27.12	5.44	204.45	29.08	138.63	13.18
7465.01	370986.20	16.80	3280.43	135.61	183.93	36474.65	119.66	34.47	26.84	4.87	209.95	30.75	135.57	13.84
7465.08	371114.20	16.80	4359.47	137.22	186.28	36227.42	119.87	32.89	27.70	5.03	205.73	31.06	135.52	13.14
7465.14	378079.40	16.60	4452.09	145.72	198.69	37918.47	123.38	33.34	27.66	4.58	202.26	33.85	132.24	12.59
7465.21	386357.00	16.40	4517.43	147.02	203.86	40922.71	129.71	34.04	32.32	5.34	201.94	34.48	126.23	11.77
7465.28	388212.00	16.40	4647.49	145.05	201.81	41036.00	131.40	35.39	30.94	5.17	199.61	33.66	127.27	10.79
7465.34	389927.60	16.40	4790.79	145.67	196.23	40724.06	129.29	35.80	29.65	5.09	191.12	32.21	131.58	10.70
7465.41	398888.00	16.20	3833.81	145.89	194.34	41174.88	129.10	38.10	29.57	4.90	186.51	33.71	134.40	11.86
7465.47	411177.40	16.20	3992.14	140.90	186.19	42516.27	129.36	39.27	35.05	5.51	175.01	30.27	138.66	12.94
7465.54	417253.60	16.20	4097.30	140.81	187.87	42385.01	132.78	40.10	34.91	5.14	172.45	29.36	140.53	14.05
7465.60	413492.60	16.40	4024.27	133.34	180.84	41456.74	130.16	40.20	35.07	4.59	172.92	31.00	138.99	13.60
7465.67	414872.40	16.20	3937.88	129.23	180.72	41392.17	127.05	40.86	35.89	4.45	178.68	31.82	137.49	13.97
7465.73	408599.80	16.20	3831.23	125.71	178.04	40388.85	121.32	38.99	36.83	4.33	186.56	31.40	134.87	13.00
7465.80	399763.20	16.20	3833.54	132.36	178.79	38383.26	122.42	54.96	35.55	8.49	194.05	64.76	112.05	37.07
7465.87	395865.60	16.20	3719.41	125.81	187.75	36836.81	117.03	52.95	30.48	8.83	196.54	68.51	112.44	35.56
7465.93	412569.80	16.00	3719.67	127.28	201.37	41339.57	121.29	51.02	33.59	9.22	197.82	69.90	107.01	36.07
7466.00	423464.00	16.00	3835.20	130.02	206.79	44746.74	134.43	49.17	38.74	9.12	199.17	71.22	105.62	35.82
7466.06	415990.40	16.20	3799.77	145.39	209.47	45844.11	143.64	49.36	37.79	9.15	240.64	71.06	106.85	36.53
7466.13	412343.60	16.40	3772.63	159.16	209.72	45482.42	138.58	34.61	34.26	4.41	273.68	36.40	132.58	13.00
7466.19	410227.80	16.40	3802.27	176.43	204.24	47354.90	139.96	36.88	41.58	4.20	295.21	31.43	133.34	14.28
7466.26	393064.40	16.60	3850.22	177.48	193.44	43610.17	137.60	35.69	39.60	3.94	294.04	31.34	137.93	15.69
7466.33	395522.60	16.60	3854.32	177.72	196.37	41844.92	131.02	35.08	37.19	3.90	297.12	31.38	140.75	16.15
7466.39	416754.20	16.40	4039.02	170.86	199.31	42522.98	129.68	35.61	40.03	4.04	259.73	30.78	143.43	14.97
7466.46	423730.60	16.20	4038.97	155.84	197.95	42481.86	127.24	31.86	40.15	4.44	238.90	32.48	138.07	14.43
7466.52	420810.20	16.20	4056.42	146.26	194.42	39182.47	118.71	30.31	33.90	3.74	218.53	34.69	139.17	14.90
7466.59	424339.80	16.00	3882.43	154.61	208.02	38313.89	112.67	29.78	32.40	3.73	236.19	35.41	137.72	14.48
7466.65	412296.40	16.00	3878.63	158.56	203.60	37134.91	105.87	29.56	30.69	3.95	246.87	35.29	137.24	14.41
7466.72	409706.40	16.00	3942.75	151.47	199.13	37526.73	103.57	29.22	29.43	3.83	237.26	35.33	133.08	14.66
7466.78	413970.60	16.00	4008.11	152.68	200.68	39801.40	107.37	30.06	32.64	3.65	221.07	34.22	133.53	14.76

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7466.85	413226.20	16.00	4022.22	148.52	209.88	40016.37	109.53	29.19	33.77	3.55	215.85	36.99	131.07	14.55
7466.92	410196.00	16.20	4199.64	144.70	205.27	41421.00	110.64	29.17	36.12	3.05	202.65	36.48	134.53	14.39
7466.98	362956.00	16.80	4169.78	127.32	220.49	40750.02	107.69	31.75	35.21	2.55	181.33	33.88	127.26	14.52
7467.05	317826.40	17.20	4050.98	122.14	230.97	39206.39	100.37	31.15	33.48	1.76	178.43	37.69	122.27	13.53
7467.11	316883.60	17.20	4024.31	115.32	242.83	36785.95	95.16	30.00	29.25	1.19	181.93	43.24	121.98	12.30
7467.18	312391.60	17.40	4084.25	113.12	241.51	36489.76	89.60	30.67	28.00	1.32	179.11	41.71	125.02	11.96
7467.24	304218.40	17.40	3708.99	96.33	307.38	34186.77	84.12	28.73	23.60	1.60	182.82	55.63	111.24	10.45
7467.31	333135.60	17.00	3615.26	100.52	290.26	35946.78	87.95	28.52	25.86	2.06	186.23	58.09	116.60	10.94
7467.38	366867.20	16.80	3329.34	99.46	341.39	36513.05	91.75	27.08	26.44	3.00	194.51	69.73	111.56	11.26
7467.44	353229.20	17.00	3301.13	95.61	344.84	36309.71	91.37	26.73	27.05	3.06	191.64	69.07	111.26	11.62
7467.51	353203.80	17.00	3263.47	96.96	334.28	37098.60	96.21	26.76	28.14	3.33	191.67	67.66	113.20	12.66
7467.57	367450.20	16.80	3686.32	106.53	279.45	41913.32	100.64	29.63	32.47	3.51	176.71	54.11	128.55	14.66
7467.64	399421.00	16.60	3140.61	91.95	378.10	40731.24	89.89	24.75	29.17	3.54	190.60	90.00	112.17	12.58
7467.70	415016.80	16.40	2801.75	79.92	442.15	39781.20	79.06	22.76	25.51	3.23	190.95	105.24	100.99	10.59
7467.77	424855.80	16.20	2150.81	66.27	551.19	38167.31	64.64	21.58	21.33	3.47	198.29	128.28	80.03	9.62
7467.83	431621.80	16.00	1501.45	48.52	663.65	36813.06	57.65	18.77	18.32	3.04	202.43	154.25	58.28	8.25
7467.90	421037.80	16.20	1113.40	40.82	714.82	33457.17	52.51	17.81	14.55	2.22	205.55	171.25	43.96	7.08
7467.97	396207.20	16.40	4603.02	60.15	626.20	34293.74	63.80	23.81	16.61	2.22	192.22	136.28	60.71	8.42
7468.03	362150.80	16.60	5325.84	80.52	499.47	34412.57	73.29	27.80	21.54	2.11	177.95	105.53	83.79	11.58
7468.10	333071.80	17.00	5977.84	94.60	377.14	36271.29	86.03	28.61	28.19	1.98	165.71	76.07	104.53	13.14
7468.16	334589.80	17.00	6728.72	112.24	273.72	39918.55	90.97	32.08	31.79	2.33	164.51	48.77	123.36	13.50
7468.23	348797.00	16.80	6898.47	116.25	220.19	43241.23	102.88	33.61	39.23	3.95	167.13	33.65	131.82	13.04
7468.29	358051.80	16.60	3988.39	114.24	209.43	43217.36	101.40	32.13	40.38	4.05	167.67	30.25	132.72	13.39
7468.36	372487.20	16.60	3982.20	110.01	204.96	42772.20	106.84	33.51	39.92	4.76	172.08	29.04	133.09	13.37
7468.43	390695.00	16.40	4035.48	110.15	197.64	41907.36	107.49	38.58	37.90	5.61	172.79	29.69	137.60	12.56
7468.49	381701.60	16.60	3950.10	114.04	181.48	38192.89	108.38	40.55	36.62	5.68	164.66	28.51	138.82	12.94
7468.56	369951.40	16.80	3971.03	115.43	164.25	33595.71	102.82	39.82	30.41	4.93	155.62	21.95	139.76	13.63
7468.62	362688.40	17.00	3877.55	113.08	171.41	33244.77	108.49	39.17	29.96	5.19	149.44	23.57	135.69	13.38
7468.69	357257.20	17.00	3694.72	113.51	180.68	34880.67	111.16	38.02	29.35	4.93	146.48	25.31	129.03	13.13
7468.75	347600.00	17.00	3557.20	112.10	187.21	36977.10	113.46	38.83	32.77	4.94	143.09	27.05	122.40	13.34
7468.82	328541.60	17.20	3417.52	110.24	204.37	36638.58	108.91	41.89	32.22	4.69	148.67	29.73	116.62	12.71
7468.88	310275.60	17.40	3390.13	111.34	211.23	38316.23	108.53	55.08	36.84	11.89	152.18	68.23	101.24	31.28
7468.95	287735.40	17.60	3348.03	111.18	199.45	36747.69	103.91	61.66	36.19	11.79	150.25	66.50	102.64	31.99

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7469.02	267994.40	17.80	3413.63	108.30	191.42	34695.16	95.52	66.02	35.39	11.65	146.81	64.82	105.44	32.14
7469.08	264789.60	17.80	3421.02	110.73	181.26	31638.29	91.20	66.32	30.78	10.90	146.80	62.88	108.49	32.69
7469.15	292245.00	17.40	3422.12	104.32	166.10	32534.04	98.18	62.48	31.84	11.40	142.24	60.84	115.40	33.59
7469.21	326621.00	17.00	3432.26	103.86	169.64	32599.98	100.47	48.85	27.71	4.66	138.81	24.03	131.90	15.50
7469.28	365018.40	16.60	3489.68	108.92	174.58	34290.41	104.10	43.33	27.47	5.21	143.11	23.44	134.25	14.35
7469.34	405316.60	16.20	3355.88	107.68	185.18	36353.55	112.05	37.56	28.72	5.79	152.34	26.78	132.96	13.40
7469.41	430871.60	16.00	3313.54	105.03	188.96	38163.49	118.45	36.74	30.26	6.67	164.50	28.86	134.48	13.37
7469.48	435326.60	16.00	3385.74	109.95	184.47	38350.24	118.35	38.81	29.36	6.64	166.98	29.38	135.06	13.72
7469.54	432866.40	16.00	3600.43	113.27	174.40	37413.55	118.84	43.49	29.11	6.43	171.83	29.53	137.19	14.16
7469.61	431538.60	16.00	3612.32	115.00	167.13	36725.42	117.51	51.80	30.57	6.02	179.24	29.87	140.04	14.56
7469.67	427831.80	16.00	3712.84	121.24	152.58	35119.96	111.35	58.29	29.07	5.95	179.35	28.61	143.14	15.17
7469.74	408154.40	16.20	3621.86	119.27	153.44	34666.76	106.93	64.81	28.57	5.74	175.46	28.40	140.67	15.34
7469.80	404695.40	16.20	3484.12	115.90	171.95	34884.15	108.42	68.41	28.89	5.97	187.53	32.43	135.92	13.96
7469.87	402210.20	16.20	3353.10	116.28	169.20	35537.97	107.22	71.84	29.99	6.24	187.60	33.84	132.92	13.27
7469.93	399663.40	16.20	3921.65	112.32	172.98	35587.96	104.47	65.93	28.50	6.23	179.99	34.00	130.00	14.06
7470.00	397132.80	16.20	3933.79	106.99	177.21	35969.00	106.23	69.91	27.63	6.14	177.48	32.57	129.87	14.59
7470.07	414241.40	16.00	3720.15	100.24	233.72	35398.02	102.83	82.26	25.95	6.00	190.64	35.13	128.12	13.23
7470.13	417043.40	16.00	3913.14	105.86	224.37	35937.45	103.31	108.17	26.10	5.91	180.79	31.14	133.11	14.73
7470.20	411728.40	16.00	3980.66	108.29	224.32	35216.16	99.52	113.47	27.25	5.84	186.21	29.19	135.65	15.15
7470.26	407770.80	16.00	3227.04	105.03	246.48	34791.40	99.02	132.59	26.95	5.56	197.73	38.13	128.72	13.41
7470.33	403338.00	16.20	3042.53	98.70	280.26	34737.11	97.13	127.89	27.51	5.20	216.65	47.78	122.04	13.25
7470.39	399566.20	16.20	3363.19	110.81	215.61	35378.90	101.85	104.11	31.02	5.34	205.33	44.06	126.05	14.17
7470.46	393044.40	16.20	3348.38	108.98	211.05	34636.18	99.54	69.59	33.40	5.39	205.81	43.56	122.90	14.00
7470.52	396780.60	16.20	3301.82	107.37	207.26	35835.34	105.30	58.48	34.32	5.18	199.65	44.04	121.16	13.78
7470.59	400921.00	16.20	3419.46	111.91	182.99	37830.64	107.60	37.11	38.07	5.47	201.86	34.34	128.59	14.13
7470.66	407659.60	16.00	3553.81	119.37	159.07	40093.23	112.63	32.35	43.48	6.03	186.77	26.45	132.59	13.97
7470.72	417158.00	16.00	3278.44	113.14	222.35	43197.82	114.91	33.73	44.24	5.38	212.73	42.57	122.39	13.24
7470.79	421962.40	16.00	3119.29	106.83	260.62	46943.59	120.58	34.60	48.67	5.38	219.09	48.46	115.24	11.33
7470.85	427991.40	16.00	3044.90	102.10	282.70	49646.93	126.59	33.98	52.32	5.78	223.61	53.20	113.51	10.14
7470.92	417190.40	16.20	3781.53	105.83	293.77	48183.23	125.51	32.71	49.95	5.77	216.90	53.81	113.34	10.41
7470.98	394568.40	16.40	3664.32	112.17	294.03	45322.58	118.69	31.92	45.02	4.94	226.55	52.17	114.94	11.30
7471.05	336900.20	17.00	3677.88	127.22	241.16	40706.75	110.26	33.46	41.61	5.34	232.29	36.27	117.69	12.98
7471.12	324202.60	17.20	3150.03	144.09	257.68	36108.82	97.59	42.58	33.85	5.25	293.48	35.75	116.32	14.56

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7471.18	306767.40	17.40	2633.87	152.41	319.40	30593.38	80.48	47.28	24.41	4.66	335.64	55.55	105.33	13.49
7471.25	305659.20	17.40	1488.87	143.02	402.20	28417.39	70.34	47.61	20.65	3.98	354.80	86.29	89.99	13.03
7471.31	318115.80	17.40	1535.21	135.69	443.55	29752.14	70.52	50.95	19.29	4.85	344.90	91.26	83.83	11.33
7471.38	360035.20	17.00	1791.95	125.34	451.25	31855.91	86.96	61.22	25.40	8.56	311.50	117.41	72.10	31.93
7471.44	362207.40	17.00	2255.25	106.82	414.87	32316.50	87.79	58.88	25.66	8.20	250.09	118.49	77.00	30.55
7471.51	375636.00	16.80	2811.93	100.85	340.50	34715.35	94.39	61.32	29.60	9.10	207.32	95.59	93.75	32.18
7471.57	385845.00	16.60	3158.01	117.94	259.44	36940.95	105.06	80.73	31.55	10.22	222.15	65.97	109.90	32.77
7471.64	396336.60	16.40	2926.04	130.94	246.41	35615.46	111.20	148.93	31.54	10.32	265.71	70.84	112.49	33.03
7471.71	403458.80	16.20	2752.98	151.96	252.01	36902.87	108.40	239.98	27.26	7.68	305.18	45.62	128.48	11.16
7471.77	412525.60	16.00	2772.53	178.31	242.76	39845.88	122.83	234.68	30.13	8.62	335.00	39.76	131.65	11.66
7471.84	400593.80	16.20	2662.46	190.41	237.07	40090.25	126.51	228.39	30.83	8.63	352.55	38.82	128.54	12.00
7471.90	405710.60	16.20	6739.01	193.32	231.59	39790.44	124.94	217.20	31.08	8.21	344.18	38.04	131.50	12.85
7471.97	403494.00	16.20	7060.64	197.41	198.96	40763.08	124.17	153.70	32.91	8.59	312.41	28.45	138.12	13.77
7472.03	402930.60	16.20	7236.27	187.73	185.76	39862.38	121.61	425.25	32.45	8.22	287.61	29.45	142.01	15.04
7472.10	398760.20	16.20	7199.15	182.91	180.94	38036.14	116.71	468.73	31.05	8.47	281.13	30.32	144.85	15.38
7472.17	403291.80	16.00	7221.91	180.95	187.24	37080.82	116.76	488.69	29.33	8.11	283.03	31.23	145.51	15.45
7472.23	399201.20	16.00	3154.41	180.59	191.22	37323.96	120.80	483.75	30.83	8.68	287.16	32.15	141.16	13.79
7472.30	399384.20	16.00	3049.04	183.54	192.13	38029.45	119.88	475.33	33.40	8.53	308.61	31.71	138.52	13.70
7472.36	403963.80	16.00	3069.87	188.97	190.20	39521.63	117.11	103.55	36.68	8.46	314.06	29.54	136.42	13.44
7472.43	420295.60	16.00	3102.09	185.10	205.17	40705.97	120.87	100.29	37.42	8.20	306.50	30.14	135.79	13.92
7472.49	432226.00	16.00	3108.10	195.90	209.68	42764.26	121.13	90.76	39.98	8.83	316.59	28.73	134.57	14.36
7472.56	432912.20	16.00	3238.26	200.98	209.85	43260.31	117.94	92.00	40.29	8.24	308.35	29.65	132.08	14.98
7472.62	427935.80	16.00	3275.38	200.71	206.98	42379.19	115.63	102.53	37.78	8.11	299.77	29.27	133.59	15.14
7472.69	420779.20	16.20	3063.57	195.82	211.84	39838.05	116.96	115.55	34.25	8.31	311.33	30.34	135.32	14.57
7472.76	406963.20	16.20	3136.43	198.84	199.93	38619.22	108.15	73.15	33.29	8.17	320.66	27.59	135.23	14.88
7472.82	398229.80	16.20	3193.65	189.85	195.55	37997.90	104.56	61.54	32.03	7.68	304.34	26.99	136.17	14.59
7472.89	411701.20	16.00	6325.59	177.55	193.82	39418.01	110.84	86.87	32.94	8.20	288.05	28.49	138.57	14.84
7472.95	420472.80	16.00	6323.85	172.29	198.24	40976.56	119.17	77.33	34.85	8.61	294.61	29.73	138.68	14.84
7473.02	425694.00	15.80	6498.27	180.14	198.87	42298.77	119.44	62.43	37.17	9.13	294.93	28.73	137.88	15.05
7473.08	422481.00	16.00	6508.54	175.19	192.64	41791.75	122.42	63.44	37.66	9.45	280.53	29.78	139.15	14.75
7473.15	427241.80	16.00	6403.26	178.09	187.14	41821.51	122.74	62.72	39.62	9.69	291.90	31.48	140.15	14.23
7473.22	417557.00	16.20	3169.07	186.33	186.40	43648.91	122.52	33.74	44.48	10.28	317.95	29.32	140.19	14.22
7473.28	415780.20	16.20	3163.99	190.08	189.69	45548.87	123.60	35.01	49.58	10.58	307.14	29.98	137.42	14.26

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7473.35	421878.20	16.20	3271.95	189.07	189.60	48740.21	132.46	35.25	54.38	10.43	289.27	30.04	137.17	13.73
7473.41	423813.80	16.00	3310.19	194.94	194.89	50494.84	138.64	37.56	55.31	10.11	289.33	29.88	135.66	13.17
7473.48	410664.60	16.20	3323.87	204.95	199.41	49435.13	138.29	36.09	53.03	9.78	304.40	27.66	133.53	13.26
7473.54	405761.00	16.20	3313.21	203.91	195.90	46141.63	131.94	33.98	47.19	9.17	300.18	26.70	134.68	13.48
7473.61	401889.60	16.20	3335.68	197.40	193.47	44507.87	124.48	36.50	41.88	8.50	299.15	25.79	134.70	13.20
7473.67	392795.60	16.20	3116.98	194.32	191.47	42956.20	116.23	42.75	38.26	8.69	315.06	26.59	132.53	14.29
7473.74	391093.40	16.40	2875.82	210.85	198.28	45224.96	110.57	40.42	44.43	8.84	360.37	28.46	128.78	13.38
7473.81	385743.00	16.40	2773.68	208.39	201.77	45108.56	110.95	41.68	46.52	8.22	355.02	29.04	128.85	13.04
7473.87	373672.80	16.60	2816.03	209.25	202.19	44382.40	111.77	55.14	44.89	7.74	356.89	28.83	127.86	11.55
7473.94	357066.20	16.80	2760.16	215.22	198.60	42061.70	107.21	69.36	43.36	7.02	358.59	29.52	128.72	11.64
7474.00	340849.40	17.00	2956.97	199.55	188.44	39737.90	100.64	105.32	40.78	6.33	319.60	29.56	130.97	11.41
7474.07	336378.80	17.00	3167.52	164.03	175.13	36453.99	98.70	115.04	35.33	6.15	252.40	27.76	137.61	12.35
7474.13	355691.80	16.80	3409.12	141.13	163.87	41730.51	99.78	117.71	39.48	6.83	207.14	27.51	139.36	12.78
7474.20	360631.00	16.80	3444.86	119.99	156.10	42481.94	96.88	118.80	40.90	6.88	170.60	28.98	138.54	14.34
7474.27	369098.60	16.80	3520.91	101.71	147.12	42388.47	95.10	109.30	39.58	6.61	142.91	27.36	140.36	15.07
7474.33	376985.40	16.80	3471.07	101.87	144.13	41541.71	95.35	95.38	38.53	6.27	148.47	26.00	140.19	16.19
7474.40	382183.00	16.60	3511.12	102.32	144.12	41445.37	107.55	102.51	87.67	12.17	158.06	54.10	115.13	40.58
7474.46	367169.80	16.80	3422.56	95.57	141.86	35417.90	104.13	130.37	81.40	11.70	164.46	57.76	115.26	40.30
7474.53	371485.80	16.60	3475.26	98.96	143.84	34785.15	107.88	137.48	79.49	12.12	164.98	59.76	117.13	41.59
7474.59	378377.80	16.40	3558.97	102.59	144.54	35804.48	110.54	166.88	81.61	12.60	167.75	63.36	113.20	40.41
7474.66	385502.40	16.20	3669.15	107.54	152.54	36454.85	121.15	149.81	82.30	18.12	178.06	90.77	97.27	65.02
7474.72	360545.40	16.60	3402.47	100.79	187.72	34200.71	104.52	133.98	30.14	11.44	169.74	67.57	114.24	39.96
7474.79	368404.20	16.40	3483.51	109.50	201.61	34812.46	106.85	107.07	30.02	11.58	174.45	69.36	111.14	40.33
7474.86	339582.00	16.80	3399.12	106.38	215.03	34285.82	101.89	95.40	30.44	10.83	187.26	73.15	103.33	39.36
7474.92	330499.20	17.00	3187.93	112.11	234.65	34181.70	105.01	65.61	29.31	10.54	221.55	76.88	104.73	40.09
7474.99	321158.80	17.20	3003.91	122.54	242.18	34365.86	98.27	57.01	29.68	4.37	251.83	56.50	119.06	14.67
7475.05	338359.20	17.00	3275.18	136.57	211.52	36025.74	103.75	98.66	30.58	4.49	264.96	56.87	121.02	15.37
7475.12	342408.80	17.00	3363.55	137.80	204.42	36809.17	102.91	99.19	31.89	4.17	270.35	51.96	127.15	15.93
7475.18	371942.40	16.60	3494.99	142.17	196.77	38702.11	106.90	89.07	34.39	4.42	269.12	44.60	135.13	14.88
7475.25	381287.40	16.40	3671.15	133.12	184.79	38612.88	104.70	81.00	35.16	4.28	242.48	39.99	137.19	13.91
7475.31	391896.80	16.20	3645.19	110.75	198.20	38241.44	99.89	76.63	33.49	4.45	213.01	40.29	132.47	13.73
7475.38	401362.00	16.00	3510.43	98.24	208.19	38533.49	99.05	36.82	33.14	4.61	211.32	41.08	132.47	13.04
7475.45	394731.40	16.20	3230.79	90.58	236.47	36827.82	94.99	38.61	29.77	4.78	222.84	52.20	122.65	12.03

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7475.51	392981.40	16.40	2953.91	82.76	264.03	34460.29	88.82	38.94	26.26	4.48	248.97	62.89	112.64	12.61
7475.58	435587.80	16.00	1860.74	50.20	244.71	109266.51	71.62	32.11	25.93	4.34	600.69	55.59	82.85	10.68
7475.64	442466.00	16.00	2118.87	60.37	223.61	109448.93	74.43	36.35	26.79	4.51	585.71	48.89	90.07	11.45
7475.71	449288.60	16.00	2389.36	70.39	210.34	109417.85	75.21	82.29	27.81	4.86	573.90	42.15	98.38	13.04
7475.77	461685.60	15.80	2665.78	74.35	183.21	111794.35	88.22	80.54	32.22	5.18	551.95	31.32	104.94	14.17
7475.84	473684.60	15.60	2834.91	83.10	157.43	114798.43	103.41	87.58	35.56	5.81	521.85	24.51	111.77	13.81
7475.91	444850.80	16.00	7241.20	118.35	177.31	42578.48	123.72	97.10	34.96	6.31	163.40	32.64	140.05	16.58
7475.97	442534.20	16.00	7212.45	117.65	178.61	42941.05	127.21	134.68	34.95	6.30	165.24	33.95	139.27	15.56
7476.04	441556.00	16.00	7130.39	112.67	177.16	43470.33	129.21	106.67	34.17	5.90	170.03	35.27	135.80	14.28
7476.10	433924.40	16.00	7133.72	113.93	174.55	41586.69	119.19	118.26	31.25	5.50	170.25	36.02	136.24	14.81
7476.17	433642.20	16.00	7296.28	110.60	169.60	39835.45	110.79	115.53	27.95	5.00	167.24	32.06	142.15	15.29
7476.23	430775.40	16.00	4142.88	108.51	167.27	38346.31	111.02	113.95	28.52	5.13	162.09	29.88	147.03	15.07
7476.30	433624.40	16.00	4184.01	113.76	171.35	39460.35	111.18	72.82	29.44	5.97	162.88	29.73	149.57	15.60
7476.36	431395.00	16.00	4192.72	117.88	178.41	39786.93	114.68	57.74	30.42	6.59	166.06	30.44	148.66	16.33
7476.43	425840.80	16.20	4188.01	115.43	177.15	39301.13	113.67	51.44	30.22	7.02	167.71	29.33	150.19	16.08
7476.50	412487.60	16.40	4146.93	119.57	174.99	38586.69	112.26	70.40	32.04	6.79	161.09	30.18	148.21	16.22
7476.56	408808.20	16.40	4134.60	120.49	178.27	41457.54	123.49	71.22	37.77	7.52	165.03	28.73	144.18	14.64
7476.63	416096.80	16.40	4088.05	114.59	176.50	43101.98	138.16	70.77	40.09	6.87	179.16	28.78	140.79	13.37
7476.69	423935.20	16.40	4056.23	114.22	174.09	45936.69	143.65	65.67	45.13	6.46	172.77	27.94	137.88	13.29
7476.76	439730.00	16.20	4141.34	114.20	179.80	50418.79	146.37	70.76	46.49	17.27	177.66	55.37	113.16	39.10
7476.82	449982.20	16.00	4227.48	111.05	181.14	53009.47	146.07	48.29	50.20	17.85	186.37	54.00	113.32	38.64
7476.89	450770.40	16.00	7028.93	115.01	180.68	50999.69	135.46	48.93	48.31	16.86	188.26	54.99	114.57	40.60
7476.96	443762.40	16.00	7054.43	114.52	182.41	49983.01	125.98	50.83	48.48	16.84	180.11	53.50	116.51	42.30
7477.02	446491.40	16.00	7217.97	117.86	189.06	51681.19	128.27	50.96	48.30	17.03	181.14	54.10	119.35	42.45
7477.09	445508.40	16.00	7182.44	123.28	189.40	55045.84	141.06	37.88	54.76	6.08	179.03	28.30	142.17	15.71
7477.15	445018.20	16.00	7189.38	126.22	189.73	54310.60	137.44	37.15	52.18	5.97	171.58	29.16	142.33	16.44
7477.22	434980.40	16.00	4440.94	124.57	189.83	51177.11	130.90	33.92	47.10	5.62	173.49	28.39	142.92	16.37
7477.28	423113.40	16.20	4431.04	125.36	187.05	48871.09	119.52	55.90	41.00	5.63	168.37	28.25	145.58	15.91
7477.35	401500.60	16.40	4403.86	124.70	178.82	42029.30	102.09	91.46	34.04	5.45	169.75	26.70	147.78	16.28
7477.41	381190.20	16.60	4404.14	123.73	172.83	33631.27	84.52	100.50	25.03	4.99	162.05	24.38	148.05	17.78
7477.48	369767.20	16.80	4341.41	121.55	172.32	32013.98	88.41	124.68	22.66	5.08	167.09	25.60	147.15	18.10
7477.55	362129.20	17.00	4309.38	124.59	172.94	32463.02	91.26	151.18	21.87	5.82	161.57	26.22	146.88	18.00
7477.61	354263.80	17.00	4300.97	121.55	166.98	32614.76	93.79	129.84	22.92	6.11	160.06	26.75	143.47	16.46

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7477.68	368130.60	16.80	4275.50	121.61	170.30	40998.24	108.35	98.02	32.94	6.52	153.84	25.77	140.55	16.38
7477.74	366785.40	16.80	4228.17	120.00	173.09	43328.22	121.04	103.15	35.62	12.90	166.95	55.68	116.73	37.83
7477.81	354511.60	16.80	4174.08	115.89	170.07	43281.16	120.29	94.78	34.87	12.52	159.56	54.34	116.39	37.30
7477.87	347173.20	16.80	8085.22	109.13	159.36	43732.14	115.80	72.81	36.88	12.48	158.59	54.49	113.51	37.29
7477.94	345798.60	16.80	8136.43	109.39	154.99	43250.38	115.82	75.76	36.75	12.15	155.64	53.21	112.34	39.25
7478.01	323767.40	17.00	8076.07	102.73	143.59	34715.98	99.24	108.21	26.31	11.38	156.72	54.42	113.63	39.37
7478.07	320404.20	17.00	8111.40	103.12	139.85	32473.57	90.00	300.43	23.44	5.21	144.47	24.35	134.23	16.28
7478.14	329322.00	17.00	8166.00	105.49	147.71	33957.20	94.76	302.95	26.26	5.21	142.70	24.47	133.92	17.05
7478.20	348362.20	16.80	4183.46	111.11	148.24	36343.36	103.81	298.88	29.01	5.19	152.75	24.20	137.59	16.77
7478.27	352711.60	16.80	4012.39	113.50	157.39	35514.36	107.66	293.25	29.48	5.31	167.49	27.05	136.78	15.37
7478.33	374877.80	16.60	3957.40	117.10	178.04	39046.02	126.12	1201.79	32.73	5.49	180.89	31.17	131.57	14.95
7478.40	388577.40	16.40	3978.20	122.06	186.18	41696.33	138.85	1002.79	37.08	5.85	182.22	30.74	136.55	15.66
7478.46	369714.20	16.60	3851.63	118.03	179.23	38398.97	126.95	985.90	35.79	5.63	178.54	28.95	136.15	15.13
7478.53	315702.60	17.20	3785.85	107.69	187.42	34654.60	120.63	989.80	31.76	5.22	156.46	29.85	133.95	15.99
7478.60	288103.40	17.40	3652.05	97.40	192.12	35338.02	118.27	1011.73	35.12	6.02	137.67	27.55	128.63	15.58
7478.66	246459.80	17.80	3667.64	91.15	177.21	32867.31	103.71	69.65	33.41	6.04	113.12	22.40	131.89	16.02
7478.73	228740.00	18.00	3516.20	78.75	170.21	30401.99	89.65	72.87	28.91	5.76	102.54	22.68	130.93	15.75
7478.79	245268.20	17.80	6746.54	85.86	174.90	31648.22	95.98	135.56	27.49	6.49	109.91	23.50	129.24	14.76
7478.86	283783.80	17.40	6779.32	86.07	168.21	32307.60	98.37	264.69	25.76	6.76	115.19	22.75	126.99	13.21
7478.92	321324.00	17.00	7170.13	96.24	161.49	32388.09	96.43	261.97	21.60	5.97	120.61	22.79	137.43	14.91
7478.99	356348.80	16.60	7247.81	104.81	167.27	32237.24	98.37	271.89	19.88	5.73	127.84	23.39	140.15	14.82
7479.06	376788.60	16.40	7401.71	112.44	173.11	34122.49	101.63	264.04	22.33	5.97	135.95	23.32	140.54	15.00
7479.12	388975.20	16.20	4355.95	110.39	180.37	36167.52	110.66	205.69	24.44	6.61	134.13	23.47	141.64	15.19
7479.19	397135.80	16.20	4513.56	118.07	181.34	36441.01	110.24	82.80	26.76	12.18	151.63	43.57	120.28	41.99
7479.25	390246.40	16.40	4387.51	119.78	176.88	36721.40	111.08	132.93	29.52	12.52	149.75	44.02	119.60	41.55
7479.32	372588.20	16.60	4373.69	117.47	169.55	35714.53	106.66	120.15	30.96	12.72	158.21	43.51	119.67	41.40
7479.38	352806.80	16.80	4368.73	115.79	163.91	34117.63	103.20	117.39	31.34	12.66	158.77	43.75	119.21	41.90
7479.45	334415.20	17.00	4358.34	114.94	153.27	31904.23	91.50	116.97	29.77	11.86	157.71	43.95	122.63	42.74
7479.51	315763.80	17.20	4199.30	110.34	151.31	30541.31	86.76	139.60	28.29	5.84	140.80	23.66	145.55	16.93
7479.58	294800.60	17.40	4162.53	102.09	154.66	28971.34	81.65	113.94	24.82	5.36	139.13	23.04	145.52	16.40
7479.65	283990.60	17.60	4163.42	96.70	153.59	28621.73	83.06	148.35	23.46	5.65	125.98	23.72	141.32	15.12
7479.71	273144.00	17.80	4138.87	91.44	149.49	27596.61	80.42	156.83	22.30	5.40	123.06	23.69	140.34	14.56
7479.78	270227.20	17.80	4098.40	90.41	149.57	27054.10	78.09	152.79	22.67	5.03	122.09	24.05	140.32	14.32

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7479.84	267669.00	17.80	4186.81	91.00	154.11	27331.72	75.66	121.06	24.02	5.34	126.57	24.21	144.52	14.48
7479.91	285900.20	17.60	4357.46	98.98	156.38	28469.42	77.68	76.58	25.97	5.33	133.60	24.18	144.56	15.53
7479.97	304187.40	17.40	4394.03	106.18	160.75	29572.29	73.40	40.37	27.63	5.22	147.31	24.18	147.22	16.55
7480.04	312298.20	17.20	4289.27	107.58	160.86	30792.35	72.79	29.62	28.66	5.58	153.42	24.48	146.84	18.02
7480.10	333951.20	17.00	4371.98	111.93	170.42	36008.65	79.33	27.51	35.20	5.89	169.62	22.94	144.03	17.96
7480.17	351544.40	16.80	4412.60	114.70	174.27	37615.49	84.54	24.44	35.91	6.09	169.14	21.48	142.25	17.57
7480.24	346752.60	16.80	4080.64	106.18	170.43	37677.64	88.98	23.68	37.29	6.10	169.88	22.53	141.50	16.27
7480.30	341948.20	16.80	3972.65	99.37	174.05	37664.37	92.76	24.47	38.74	6.06	164.40	23.36	140.03	16.87
7480.37	366697.40	16.60	3955.44	96.72	181.29	37050.16	99.57	23.83	39.26	5.89	169.07	26.11	141.22	15.32
7480.43	371550.20	16.60	3338.07	83.25	259.35	31244.28	93.18	22.97	30.35	5.80	187.42	42.05	128.20	12.65
7480.50	388024.00	16.40	2660.26	67.56	357.73	28536.01	86.01	21.26	26.50	4.90	218.88	57.54	109.71	10.60
7480.56	403776.80	16.20	2301.05	60.38	449.03	26407.56	77.06	20.82	23.66	4.48	238.88	72.10	93.13	8.33
7480.63	421195.80	16.00	1744.36	46.76	536.83	24013.59	68.71	18.10	19.27	3.92	260.05	88.14	74.91	5.75
7480.70	399044.20	16.20	1219.91	38.61	611.12	21554.94	56.59	16.21	14.73	3.39	277.64	102.69	54.18	3.40
7480.76	371791.60	16.40	1242.86	36.86	618.98	20856.55	53.85	15.94	15.50	3.02	269.01	100.60	50.73	4.66
7480.83	340899.20	16.80	1354.56	45.77	591.32	20407.15	50.50	17.46	16.04	3.07	264.30	97.66	52.83	5.20
7480.89	302754.60	17.20	1798.05	60.39	506.54	20204.87	53.52	15.96	14.41	2.53	242.97	83.03	67.57	7.81
7480.96	279730.40	17.40	2359.05	77.57	439.49	21439.20	60.51	18.22	15.30	2.37	237.77	68.63	83.96	8.86
7481.02	278455.60	17.40	2747.04	85.93	408.68	22957.99	63.18	18.87	17.18	2.05	235.32	53.60	100.58	11.60
7481.09	280936.20	17.40	2986.04	90.85	374.79	23435.96	54.51	18.51	14.64	1.39	233.72	47.50	112.52	11.54
7481.15	283617.00	17.20	3142.01	83.98	373.85	23903.11	51.01	15.99	13.60	1.36	233.56	44.57	118.62	12.44
7481.22	295583.60	17.20	2863.65	71.66	442.00	23335.98	38.14	16.09	12.89	1.04	256.61	51.88	106.20	11.53
7481.29	266076.20	17.60	2622.84	57.19	484.40	21888.81	23.24	14.74	9.89	1.25	261.92	55.77	101.60	10.60
7481.35	259229.00	17.80	2737.45	52.81	503.71	21986.26	13.24	13.92	6.15	0.51	247.78	56.70	97.52	9.75
7481.42	263833.00	17.80	2931.80	55.70	501.17	23889.57	18.21	14.07	9.73	0.48	232.44	51.46	99.33	11.12
7481.48	266093.00	17.80	3052.48	60.96	472.83	26146.42	25.80	15.41	11.54	0.37	224.21	44.71	101.42	10.07
7481.55	283313.40	17.60	3146.41	61.15	440.11	28585.40	39.91	16.76	14.03	0.75	220.06	41.16	109.35	9.67
7481.61	325870.80	17.20	3358.12	72.23	417.14	31607.00	54.23	18.07	17.66	0.25	211.57	37.21	112.56	11.26
7481.68	339983.20	17.00	3599.59	78.03	389.89	31506.18	65.36	19.11	20.73	0.65	219.79	35.74	114.29	11.03
7481.75	351669.60	17.00	3437.58	76.10	358.91	33073.45	78.32	20.60	20.88	0.89	244.42	37.86	114.36	10.42
7481.81	372976.60	16.80	3269.32	71.00	363.06	33347.82	79.46	20.07	19.95	0.54	275.65	42.54	110.85	10.52
7481.88	372708.00	16.80	3234.31	72.37	352.02	33071.03	74.15	30.28	21.00	3.52	249.53	85.50	97.60	27.28
7481.94	358137.20	16.80	3111.81	73.48	323.45	31768.62	73.00	29.43	18.94	3.68	240.93	86.33	97.86	26.82

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7482.01	340885.80	17.00	2971.31	76.39	296.32	32902.91	79.43	29.38	18.13	3.99	224.45	85.02	99.47	27.24
7482.07	338982.40	17.00	1592.55	62.38	258.61	71169.39	57.81	20.02	16.84	2.99	569.26	76.44	80.61	24.71
7482.14	334258.60	17.00	1923.97	76.04	213.03	70121.70	63.77	21.51	17.01	3.53	522.73	68.92	90.12	27.14
7482.20	345436.20	16.80	2309.41	84.45	189.59	70421.71	69.36	21.66	16.72	3.84	536.57	48.79	85.62	39.68
7482.27	371271.80	16.60	2432.68	85.65	183.85	70942.46	71.93	22.82	17.71	4.17	534.79	46.20	88.96	40.89
7482.34	407785.40	16.20	2230.92	83.09	198.73	71151.25	68.66	24.05	18.37	4.23	548.20	54.84	89.58	40.08
7482.40	395754.40	16.20	3815.48	103.27	214.72	30708.47	83.43	32.36	17.54	5.29	176.96	60.10	108.02	42.36
7482.47	378549.40	16.40	3846.51	100.98	220.03	29904.92	80.36	32.99	17.23	5.00	175.71	62.21	106.45	40.28
7482.53	359511.60	16.60	3767.01	102.25	219.36	30254.60	80.83	24.40	17.06	1.88	171.03	36.08	126.81	12.64
7482.60	329277.00	17.00	3706.11	101.30	207.61	29314.07	78.00	24.28	16.44	2.17	168.11	34.50	124.19	12.55
7482.66	292171.40	17.40	3826.48	100.62	187.22	28638.65	78.11	24.15	17.48	1.73	154.09	26.01	124.55	12.93
7482.73	281596.00	17.60	3856.47	100.77	186.41	28532.68	78.57	24.29	18.72	1.60	147.02	25.90	122.67	13.76
7482.80	276160.00	17.80	3679.00	95.03	174.93	28446.02	81.85	24.64	20.00	1.35	144.23	26.23	121.34	14.68
7482.86	269885.00	17.80	3677.32	92.54	173.46	28530.64	76.89	27.53	18.79	1.30	141.26	24.03	121.63	15.12
7482.93	272060.00	17.80	3703.98	89.06	176.10	29151.02	78.83	27.95	19.83	0.87	141.24	25.52	122.77	14.59
7482.99	273785.40	17.80	3521.89	83.10	163.26	28419.51	74.08	27.85	18.54	1.43	141.99	24.79	121.08	15.18
7483.06	300356.40	17.40	3229.20	75.67	159.22	28095.39	74.27	28.22	18.49	1.49	150.27	25.81	126.71	14.80
7483.12	328844.40	17.00	3445.40	80.41	177.82	29650.33	73.55	27.53	18.48	2.18	153.54	25.51	128.26	15.21
7483.19	350977.40	16.80	3530.32	83.73	185.76	29502.22	76.39	23.62	18.38	2.04	146.02	26.92	130.17	14.32
7483.25	373131.00	16.40	3537.74	85.25	187.68	30038.52	74.72	22.32	18.07	2.18	144.22	27.63	131.75	14.77
7483.32	396068.40	16.20	3731.87	87.85	197.14	31250.20	78.79	21.34	19.16	1.81	144.73	28.91	134.57	15.40
7483.39	397404.20	16.20	3894.88	93.14	203.52	31866.11	79.26	28.17	19.19	5.95	150.15	60.44	111.80	41.34
7483.45	395835.60	16.20	3910.32	92.56	197.39	31963.74	73.69	29.89	19.06	5.59	152.97	59.61	114.34	41.14
7483.52	392722.60	16.20	3753.25	87.40	189.96	32092.10	70.09	29.89	19.50	5.67	167.28	60.15	114.46	41.09
7483.58	394145.20	16.20	3851.67	92.33	189.56	33101.50	68.46	31.46	21.29	5.82	173.75	61.17	116.05	40.52
7483.65	393529.40	16.20	3844.15	97.85	185.81	33249.05	66.51	32.42	20.02	6.63	174.41	60.55	117.68	40.34
7483.71	383902.80	16.40	7807.16	97.61	177.43	32889.05	62.34	27.14	19.63	2.83	162.09	28.56	141.06	14.08
7483.78	365306.20	16.60	7565.35	94.82	165.10	31259.32	65.11	27.40	19.69	3.39	163.21	28.21	139.59	14.79
7483.85	348434.80	16.80	7516.54	95.76	159.92	29814.48	78.72	39.93	22.09	7.37	162.07	55.26	117.01	36.73
7483.91	334537.60	17.00	7429.11	93.20	153.93	27942.68	84.55	40.76	20.99	7.45	155.06	52.52	116.35	36.67
7483.98	323595.80	17.00	7412.49	94.17	155.12	26222.38	83.47	40.90	20.81	6.87	157.79	51.77	114.85	37.03
7484.04	311084.40	17.00	3091.74	89.40	150.17	24588.68	84.51	37.57	20.76	6.44	169.25	50.46	111.28	36.92
7484.11	316853.40	17.00	3229.08	93.99	153.76	25411.26	81.69	36.87	21.25	6.28	164.12	51.12	109.04	35.11

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7484.17	325512.80	17.00	3321.26	99.99	156.87	26120.85	70.03	24.20	19.29	2.65	159.35	22.69	130.40	13.85
7484.24	316454.20	17.20	3202.03	97.39	161.17	26410.64	62.34	30.93	18.44	2.47	175.21	22.75	126.03	14.69
7484.30	325499.40	17.20	3331.38	97.85	164.38	28241.89	62.99	31.90	18.97	2.74	168.90	22.77	124.81	13.63
7484.37	330302.40	17.20	3622.51	102.43	165.48	29531.39	59.96	33.95	18.37	3.28	153.78	25.16	128.50	15.22
7484.44	331493.00	17.20	3456.36	98.65	155.47	28706.65	59.73	32.87	16.91	3.21	162.32	25.94	130.30	16.09
7484.50	334540.60	17.20	3447.32	93.67	151.82	28289.69	59.14	32.92	16.73	3.22	160.60	27.65	130.00	15.12
7484.57	344575.40	17.00	3248.93	90.85	141.15	26692.90	62.20	28.19	17.16	3.50	154.31	29.27	135.73	14.10
7484.63	319945.60	17.20	2774.86	79.28	125.58	24792.90	61.49	27.16	17.83	3.69	174.80	30.74	139.34	12.76
7484.70	323219.80	17.20	3789.06	78.98	128.51	24558.68	62.31	29.07	18.87	3.20	179.21	29.33	138.26	12.53
7484.76	316537.80	17.20	3928.90	80.49	134.75	24574.27	64.58	281.69	19.32	3.09	168.90	28.55	137.62	12.13
7484.83	303932.80	17.20	3911.71	78.01	138.29	24362.73	63.99	387.04	20.41	3.03	162.64	27.66	135.92	12.21
7484.90	297361.20	17.20	4175.94	76.84	149.77	26025.49	62.54	385.59	19.48	2.88	148.82	27.56	132.11	13.17
7484.96	309680.60	17.00	4565.77	84.50	169.25	28137.97	63.82	386.08	20.64	3.23	127.88	25.66	131.44	15.14
7485.03	302150.80	17.00	3657.66	84.67	179.38	28528.05	72.10	391.86	23.85	7.12	136.68	47.96	109.91	39.30
7485.09	298850.60	17.00	3691.45	90.54	180.05	28351.29	70.58	145.73	23.93	7.42	138.72	48.47	110.10	39.39
7485.16	305860.80	17.00	3739.54	91.40	175.75	28430.17	72.11	42.86	22.28	7.31	137.06	48.57	116.06	39.87
7485.22	304615.80	17.00	3881.18	100.56	175.47	27851.57	72.53	41.23	23.06	6.98	137.25	49.13	118.38	39.70
7485.29	280100.00	17.40	3923.48	101.28	166.13	26152.69	71.23	41.30	22.27	5.97	130.63	49.53	114.12	38.46
7485.35	267959.80	17.60	3906.66	104.24	155.92	25414.25	65.42	37.55	18.65	2.18	119.55	27.27	133.51	13.46
7485.42	257303.80	17.80	3854.05	94.43	159.47	25714.92	65.92	46.79	19.28	1.76	117.17	27.05	133.64	13.36
7485.49	240846.20	18.00	3869.38	92.23	168.76	26524.00	66.94	138.97	20.64	1.77	117.72	28.34	127.11	13.23
7485.55	234152.60	18.20	3884.74	89.66	169.82	27660.57	66.18	142.67	21.21	2.06	118.21	27.64	125.84	11.87
7485.62	245927.40	18.00	3847.17	87.54	175.12	28610.33	62.60	143.47	21.04	2.55	122.63	27.54	126.53	13.59
7485.68	242004.00	18.00	4044.04	83.83	177.39	29125.48	69.15	144.63	24.57	5.76	130.59	45.63	106.39	34.39
7485.75	235792.20	18.00	4151.92	89.96	178.82	28877.36	67.05	130.44	24.46	6.41	125.88	44.19	105.96	34.97
7485.81	231605.20	18.00	4179.28	91.52	180.18	28436.57	65.37	40.37	23.34	6.36	134.44	43.75	108.53	34.26
7485.88	213896.00	18.20	4168.71	88.07	186.80	26925.57	64.65	50.84	22.22	6.41	130.53	43.59	105.59	34.64
7485.94	226400.40	18.00	4284.13	95.29	192.11	26422.92	69.77	54.05	21.24	6.21	130.77	44.98	106.71	33.21
7486.01	241863.20	17.80	4188.28	95.80	198.10	26209.03	61.46	124.42	17.57	2.66	122.87	27.79	127.85	12.40
7486.08	254970.80	17.80	4173.34	95.02	205.09	26240.53	61.25	145.72	16.72	1.85	131.74	29.44	127.14	12.04
7486.14	263624.40	17.80	4114.97	98.51	209.44	25953.47	58.50	152.01	17.23	1.93	128.36	27.71	125.31	12.84
7486.21	308547.40	17.20	4168.97	99.67	215.40	26910.25	59.90	139.16	18.17	1.77	138.17	28.39	131.61	14.54
7486.27	329743.80	17.00	4076.39	100.66	212.21	27393.94	61.24	135.03	18.85	2.01	147.85	27.77	136.56	15.72

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7486.34	350004.80	16.80	4135.41	105.55	212.02	27980.37	63.98	64.67	18.92	2.49	153.78	28.17	139.83	16.76
7486.40	371441.60	16.40	4174.95	104.40	209.50	28857.96	64.84	46.35	20.45	3.34	155.09	28.00	145.08	17.66
7486.47	395881.40	16.00	4263.53	104.62	210.56	29743.74	66.88	44.40	21.19	3.44	163.20	28.79	148.43	18.44
7486.54	401384.00	16.00	4301.59	110.86	199.68	29832.49	68.25	50.66	21.80	2.99	164.66	28.22	150.13	17.67
7486.60	400576.60	16.00	4340.99	106.24	197.11	29708.83	67.77	70.00	22.08	2.85	164.63	28.58	148.51	16.55
7486.67	358007.20	16.40	4339.95	108.29	192.38	30407.03	75.96	78.15	31.35	8.24	175.80	60.24	125.82	40.77
7486.73	355547.80	16.60	5060.93	114.97	183.87	30151.80	78.28	76.23	30.88	7.78	171.23	61.34	123.46	39.96
7486.80	349471.00	16.80	5101.81	116.74	170.02	29334.89	78.43	67.52	29.63	7.63	163.47	62.48	123.18	38.92
7486.86	328607.80	17.00	5012.67	109.33	166.43	29651.68	82.85	67.68	29.50	12.18	171.33	87.25	97.31	62.38
7486.93	328483.80	17.00	5144.76	114.62	172.77	31313.43	80.30	47.96	29.52	11.86	165.93	85.98	95.81	63.94
7486.99	371066.00	16.60	5205.22	112.49	181.03	32381.69	71.06	34.66	20.97	6.25	151.45	53.45	116.67	38.53
7487.06	370155.80	16.60	4631.17	113.41	190.10	33277.93	69.77	30.84	21.87	6.46	156.40	51.93	117.47	39.07
7487.13	374600.20	16.60	4726.23	112.67	198.31	34812.28	69.08	31.13	23.00	6.52	162.60	51.45	117.33	40.30
7487.19	388267.40	16.60	4770.88	117.39	200.19	35161.21	65.16	22.60	23.73	2.31	161.23	25.51	139.65	16.50
7487.26	386687.40	16.60	4747.43	117.82	195.64	34595.21	63.51	22.64	25.21	2.44	168.82	27.40	142.84	15.50
7487.32	383842.20	16.80	4740.84	118.23	197.94	33407.32	64.35	22.90	24.80	2.45	171.53	27.96	145.47	16.61
7487.39	379571.00	16.80	4486.38	107.45	196.77	32819.18	62.90	24.13	23.86	2.28	171.46	28.49	144.78	16.66
7487.45	367113.00	16.80	4340.72	108.72	194.89	31557.68	61.58	24.12	21.35	2.16	164.84	28.25	146.75	15.78
7487.52	348629.80	16.80	4474.02	110.85	198.08	30217.87	55.61	22.87	19.60	1.89	158.65	30.62	146.97	17.00
7487.59	327757.00	17.00	4410.34	105.38	210.94	29169.68	54.79	23.03	16.37	1.66	149.75	30.31	142.37	15.83
7487.65	303196.00	17.20	4343.99	105.29	207.44	28386.50	56.75	29.70	19.70	5.71	156.91	55.58	117.08	38.98
7487.72	282803.80	17.40	9802.07	109.29	204.80	27348.08	53.70	35.42	19.51	5.44	151.45	54.67	116.06	40.33
7487.78	297263.60	17.20	9805.19	106.74	220.96	29826.47	55.98	36.80	20.42	5.64	148.78	53.86	114.26	40.23
7487.85	306759.60	17.20	9715.00	102.40	218.02	30220.83	57.48	38.06	20.38	5.93	142.86	53.06	113.85	39.45
7487.91	309339.80	17.20	9785.90	101.93	201.96	30652.65	53.65	37.72	21.54	6.07	142.71	52.04	115.89	40.25
7487.98	328483.40	17.00	9761.52	97.98	196.41	31236.58	48.73	29.72	18.64	2.03	133.09	27.50	142.69	15.86
7488.04	347245.80	16.80	4382.86	100.87	194.14	32184.99	51.38	26.44	18.02	2.09	138.04	28.42	142.80	13.85
7488.11	340321.20	17.00	4435.67	101.56	178.70	30954.71	51.23	42.09	19.99	1.65	150.59	29.30	144.44	14.00
7488.18	346071.40	17.00	4427.46	106.10	178.90	32374.92	53.88	42.48	21.19	1.42	156.21	29.58	144.86	13.55
7488.24	353667.40	17.00	4275.98	109.56	177.27	31189.58	60.27	47.95	21.65	1.84	166.03	30.41	145.71	12.97
7488.31	339742.60	17.20	4192.24	108.90	166.76	30115.40	63.06	52.18	20.63	1.70	173.81	28.27	139.18	13.60
7488.37	345607.00	17.20	4264.42	107.19	167.09	29748.61	64.28	62.75	21.32	1.59	168.67	28.14	141.44	13.89
7488.44	345121.20	17.20	4086.30	102.64	161.24	28048.88	65.01	52.75	19.23	1.69	164.69	29.50	139.94	13.41

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7488.50	344985.20	17.20	4155.53	103.41	167.12	26859.78	64.23	56.33	17.64	2.12	163.03	29.58	139.02	13.50
7488.57	353876.00	17.20	4201.69	102.23	169.66	28376.17	63.18	84.25	18.17	1.96	155.31	30.57	137.80	13.55
7488.64	374036.00	17.00	4380.18	106.37	184.28	29894.82	60.94	86.36	18.56	2.25	147.56	31.00	139.20	14.27
7488.70	367212.20	17.00	4413.66	105.08	180.00	30042.34	60.41	75.18	17.93	2.29	155.26	30.26	137.45	14.81
7488.77	378104.00	16.80	4591.99	109.28	186.31	33680.50	58.48	68.75	20.02	2.56	154.88	28.41	138.03	15.59
7488.83	385343.40	16.60	4513.04	107.93	185.75	34223.67	56.65	65.63	20.82	2.34	151.99	29.00	140.12	16.13
7488.90	387850.60	16.40	4596.45	108.17	194.62	34272.46	54.43	36.17	19.36	2.28	150.72	28.26	140.23	17.17
7488.96	384338.60	16.40	4530.16	107.66	199.38	33658.50	54.01	46.38	19.44	2.22	154.59	30.33	141.65	15.69
7489.03	389656.40	16.40	4493.95	107.98	208.90	33577.20	50.59	46.51	19.74	2.33	146.59	30.87	140.94	16.10
7489.09	389411.40	16.40	4485.93	109.66	211.40	30444.46	50.76	56.58	17.70	2.44	146.11	31.20	143.68	16.08
7489.16	388405.60	16.40	4465.01	109.33	207.89	30108.63	51.87	58.58	17.59	2.49	151.85	30.30	144.03	15.09
7489.23	388277.80	16.40	4434.12	110.17	204.86	29850.41	54.14	56.40	17.84	2.39	156.30	30.94	143.97	14.98
7489.29	394587.20	16.20	4512.47	113.77	199.07	30229.95	58.30	45.40	18.45	2.54	155.19	29.51	145.70	16.28
7489.36	397504.40	16.20	4474.54	114.02	195.32	30791.63	62.15	64.29	19.28	2.53	162.28	30.15	147.11	14.94
7489.42	392626.40	16.20	4501.84	116.86	192.58	31529.63	59.91	55.54	20.92	2.49	168.76	30.03	142.89	14.77
7489.49	392317.20	16.20	4580.24	115.64	196.76	31859.55	61.87	55.22	21.32	2.41	170.61	29.30	142.57	14.87
7489.55	394994.00	16.20	4624.69	117.34	193.50	31821.48	60.99	55.85	21.98	1.95	169.54	27.86	145.62	14.72
7489.62	385802.40	16.40	4640.04	117.25	195.91	32971.42	59.27	51.68	21.76	1.49	169.65	27.41	142.02	15.05
7489.69	390290.40	16.20	4692.89	118.39	199.35	33814.66	60.33	32.23	22.34	1.73	166.62	25.59	144.37	16.55
7489.75	392974.20	16.20	5843.43	114.85	203.82	34408.83	59.06	31.04	21.44	1.47	155.17	24.98	145.21	16.78
7489.82	388667.60	16.40	5868.45	117.00	199.96	34465.19	54.85	29.33	20.92	1.18	153.70	26.96	145.86	17.84
7489.88	382803.40	16.60	5770.00	113.39	198.40	33796.37	54.52	26.94	19.71	1.43	156.32	28.22	145.44	18.69
7489.95	392876.60	16.40	5762.31	105.60	205.86	33278.26	51.89	26.16	19.59	1.64	153.30	29.82	144.19	18.47
7490.01	396701.00	16.40	5820.02	107.84	224.60	34135.42	47.23	23.68	18.21	1.21	157.13	32.82	140.36	17.63
7490.08	400335.60	16.40	4695.81	108.63	240.06	34796.88	47.39	23.45	18.21	1.34	159.27	36.40	138.83	16.76
7490.14	404224.00	16.20	4624.93	106.42	259.45	35149.05	46.59	25.82	19.38	1.86	155.39	36.25	137.00	15.59
7490.21	409199.00	16.00	4670.51	108.31	267.58	35790.63	48.04	27.08	21.45	2.40	158.64	35.86	138.31	15.25
7490.28	406130.80	16.20	4699.45	115.28	256.91	35348.41	49.39	28.27	22.21	2.84	160.09	36.06	144.35	15.22
7490.34	401828.80	16.20	4761.68	114.65	241.21	35513.38	53.78	30.15	24.20	3.49	157.26	36.32	150.80	15.03
7490.41	383549.00	16.40	4757.12	113.92	224.54	35805.12	59.27	29.92	25.69	3.94	149.98	32.70	152.10	16.06
7490.47	377062.60	16.60	4692.92	111.93	207.52	35648.77	66.63	28.63	25.46	3.80	157.81	32.93	149.68	15.40
7490.54	367313.60	16.80	4531.46	110.04	195.43	34952.84	67.22	28.12	24.26	3.48	157.36	33.03	146.43	15.33
7490.60	351246.00	16.80	4412.79	103.48	194.89	34079.32	66.98	26.63	23.95	2.77	156.40	32.74	141.56	13.66

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7490.67	323097.60	17.20	3986.08	97.68	185.07	31386.36	63.08	31.93	22.76	2.15	159.31	31.08	136.72	13.17
7490.73	262819.60	17.80	4544.17	109.34	187.82	24507.97	63.67	41.20	16.11	0.03	145.85	26.69	112.37	9.15
7490.80	194957.00	18.40	7137.78	108.03	180.07	17982.63	54.05	41.06	13.43	2.17	112.66	20.13	94.02	9.57
7490.87	190716.00	18.40	8580.89	108.70	188.42	18831.02	52.57	80.91	13.65	2.03	100.82	20.22	92.30	8.96
7490.93	193913.60	18.40	8553.56	112.12	192.63	18982.25	53.96	80.80	12.53	2.59	100.74	20.40	95.20	9.52
7491.00	206498.60	18.20	8830.80	120.61	196.85	19445.08	57.68	75.83	11.96	2.91	94.85	20.51	96.84	10.26
7491.06	269749.60	17.60	8293.73	109.83	185.31	25044.97	56.45	66.78	17.60	4.53	112.62	25.56	127.23	13.50
7491.13	336632.80	17.00	5805.20	111.91	193.75	32457.54	65.70	65.11	21.45	2.75	141.03	29.88	149.08	14.07
7491.19	343733.40	17.00	4593.76	114.08	186.17	33048.64	69.83	24.04	22.81	3.51	147.41	29.33	151.99	14.38
7491.26	355618.20	17.00	4594.87	112.68	186.82	34688.60	72.24	25.06	24.37	3.60	149.72	29.49	153.10	14.83
7491.33	372923.80	16.80	4427.40	106.25	190.74	37165.25	73.44	25.28	26.34	4.07	153.49	30.60	150.80	14.84
7491.39	392970.20	16.60	4187.65	101.33	218.45	40303.43	74.96	25.18	27.22	4.62	157.44	36.28	141.10	14.46
7491.46	407589.20	16.40	4037.64	104.85	221.07	42724.10	74.97	27.56	28.10	4.46	154.11	38.19	139.47	14.04
7491.52	409209.60	16.40	3953.29	106.02	224.11	42557.88	76.57	40.59	27.95	9.44	158.13	59.09	116.54	41.33
7491.59	409426.60	16.40	4042.57	110.84	221.81	42236.47	74.23	40.66	27.85	9.27	155.86	57.17	117.07	42.49
7491.65	406646.20	16.40	4272.41	115.63	217.47	41882.81	75.74	39.17	29.34	9.06	153.68	57.22	118.25	42.00
7491.72	398081.00	16.40	4357.21	118.98	196.02	39939.79	76.90	40.11	30.67	8.76	152.69	52.44	123.33	41.91
7491.78	389315.80	16.40	4315.79	121.07	192.12	36373.05	73.97	41.21	30.01	8.40	187.86	50.71	124.59	42.32
7491.85	389362.20	16.40	4089.45	136.52	203.17	36286.38	70.86	40.55	28.26	2.57	276.48	29.67	146.12	15.02
7491.92	388529.60	16.40	3839.78	145.76	207.06	35775.72	72.26	62.65	27.78	2.67	330.73	30.37	144.79	13.34
7491.98	383697.80	16.60	3634.54	153.42	211.43	33860.12	70.94	67.83	25.76	2.14	364.76	29.80	145.68	14.75
7492.05	377827.20	16.80	3721.50	162.05	208.30	31803.14	67.50	68.21	23.82	2.03	375.47	28.73	145.62	14.63
7492.11	375252.40	17.00	3901.79	162.74	208.23	31757.36	67.52	64.93	22.84	2.33	354.97	29.24	146.65	15.12
7492.18	382410.20	16.80	4180.84	152.13	199.20	31822.33	65.99	56.90	25.82	2.70	278.19	31.45	146.92	15.52
7492.24	389625.00	16.60	4418.99	150.88	201.13	32666.14	63.40	37.09	27.13	2.75	247.22	31.00	148.80	16.45
7492.31	392977.00	16.40	4553.07	146.08	199.26	33028.50	61.83	33.95	26.85	2.95	231.86	29.63	148.15	14.82
7492.38	396762.40	16.20	4474.32	141.73	200.40	33408.81	61.19	37.90	28.41	3.07	237.96	30.86	148.72	15.17
7492.44	400093.20	16.00	4437.92	139.69	201.25	33331.82	61.00	55.95	29.20	3.28	236.18	30.32	150.12	15.12
7492.51	396969.20	16.00	4338.83	140.81	204.92	33322.31	58.60	58.84	28.36	3.14	240.07	28.54	151.62	14.75
7492.57	392825.00	16.00	4228.66	139.09	199.79	32609.50	58.12	60.96	27.68	3.14	246.72	30.55	149.45	13.75
7492.64	390522.80	16.20	4253.71	139.05	200.12	32215.24	56.24	65.01	27.09	2.92	238.20	30.37	148.66	13.88
7492.70	389032.20	16.40	4300.36	143.92	201.41	31842.84	56.55	60.92	25.49	2.93	234.48	30.13	149.28	13.95
7492.77	388446.20	16.40	4287.76	146.61	198.37	31637.85	54.66	46.18	25.23	2.68	231.84	30.63	147.86	13.56

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7492.83	387798.00	16.40	4500.56	143.59	192.72	31507.84	57.25	40.36	25.21	2.72	217.01	30.95	148.60	13.18
7492.90	386178.80	16.60	4488.45	134.59	193.02	31301.47	57.56	37.80	25.08	2.47	197.48	30.62	148.89	13.04
7492.97	387182.60	16.60	4506.49	133.78	189.66	32019.68	59.22	32.07	27.65	2.93	193.50	31.10	150.45	14.04
7493.03	386849.40	16.60	4404.30	128.16	186.75	33437.43	62.82	32.44	29.96	2.85	192.64	30.54	151.08	14.57
7493.10	381795.80	16.80	4367.61	129.42	181.83	33478.46	63.59	30.00	30.76	2.79	192.06	30.95	150.51	13.79
7493.16	373013.80	17.00	4009.73	120.91	178.39	32422.47	64.51	35.56	29.81	2.71	201.91	31.12	147.80	14.18
7493.23	366320.80	17.00	4054.42	125.63	175.16	31805.75	63.14	34.16	30.74	2.62	199.56	28.94	147.82	16.12
7493.29	360071.20	17.00	3961.70	123.36	173.92	31334.09	62.68	34.42	29.51	2.60	201.74	28.98	148.06	15.74
7493.36	349453.00	17.00	4104.34	126.63	176.73	32044.60	59.94	34.30	28.58	2.48	195.26	27.23	146.34	15.96
7493.43	343657.60	17.00	4025.84	118.77	181.09	31799.96	61.16	32.82	27.77	2.31	183.06	26.85	145.52	16.59
7493.49	337453.80	17.00	4060.28	117.83	178.64	31491.08	60.40	27.89	27.74	2.73	161.59	28.20	144.50	15.29
7493.56	332103.60	17.00	4042.92	113.48	178.37	31405.15	62.93	33.23	26.87	3.95	153.67	28.95	143.25	13.91
7493.62	322902.40	17.00	4098.94	114.81	175.46	31042.72	64.44	54.87	26.29	4.05	139.40	28.53	141.49	14.15
7493.69	319827.60	17.00	3805.88	103.17	168.93	28820.49	64.85	91.84	24.56	4.60	135.25	31.35	136.54	13.00
7493.75	316273.60	17.00	3839.34	100.43	167.95	29834.79	64.85	212.52	24.44	5.09	134.95	31.18	135.33	12.19
7493.82	304033.60	17.20	3460.80	92.88	225.42	28710.87	63.78	216.19	30.42	7.38	131.38	61.83	131.19	28.02
7493.88	303202.80	17.20	3422.86	91.71	221.74	28006.69	64.89	216.38	29.86	6.88	132.22	61.17	130.42	27.46
7493.95	301576.20	17.20	3288.76	85.79	222.42	27404.29	65.35	230.36	30.01	6.76	134.06	61.65	130.31	26.55
7494.02	294475.80	17.40	3445.86	89.38	220.88	27005.46	64.70	212.70	30.73	6.66	127.81	60.49	130.64	27.42
7494.08	282844.20	17.60	3218.70	86.34	219.68	25156.81	64.73	108.10	30.16	6.25	134.40	60.72	129.20	28.62
7494.15	280763.20	17.60	3585.57	95.23	161.27	26560.34	68.66	136.67	24.45	3.91	139.06	27.61	133.71	14.10
7494.21	254729.60	17.80	3392.30	92.49	147.94	26423.22	68.14	145.22	24.65	3.70	132.35	26.25	133.34	14.67
7494.28	257788.40	17.80	3357.86	95.32	145.86	27005.72	69.02	123.97	23.76	4.10	133.89	26.26	132.68	13.93
7494.34	268010.40	17.60	4200.83	96.70	148.43	27504.89	72.01	116.96	23.96	4.33	136.62	26.81	135.52	13.45
7494.41	282374.60	17.40	4286.03	103.13	147.09	30384.37	76.35	133.64	26.15	5.67	136.72	26.44	136.32	12.70
7494.48	289682.60	17.40	4282.70	98.83	151.64	30179.52	76.49	111.15	25.38	5.62	136.94	27.75	135.10	12.54
7494.54	310579.80	17.20	4395.10	99.25	164.30	30544.63	77.10	98.94	25.28	5.75	142.81	30.49	136.08	12.30
7494.61	305692.40	17.20	4460.22	99.99	171.84	31671.07	76.15	151.85	26.83	6.04	141.25	31.73	135.23	13.39
7494.67	289967.20	17.40	3586.35	102.08	177.60	31236.76	72.66	142.27	27.21	5.75	135.74	33.56	134.48	13.81
7494.74	285644.00	17.40	3542.15	98.12	178.26	28838.58	72.56	110.70	25.52	5.12	132.87	34.70	134.78	14.64
7494.80	289951.80	17.20	3503.96	100.50	179.96	29301.67	72.70	101.84	26.50	5.32	130.32	35.89	133.32	13.79
7494.87	260928.20	17.60	3444.65	98.58	183.56	29575.20	75.86	105.73	26.91	5.07	130.02	37.58	129.28	12.30
7494.93	250564.40	17.80	3248.83	93.84	179.20	27944.11	75.36	39.45	26.01	4.68	128.99	37.29	126.48	12.76

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7495.00	246193.60	17.80	3133.71	88.08	167.89	27894.77	79.50	34.88	24.48	4.31	126.87	34.72	126.93	12.70
7495.07	236792.00	18.00	3299.91	87.88	165.47	28227.18	76.70	34.08	23.05	4.34	124.27	33.80	126.12	11.86
7495.13	226961.20	18.20	3360.25	91.72	159.06	27999.44	75.97	32.07	21.83	4.04	123.84	30.12	127.29	12.87
7495.20	240451.00	18.00	3398.61	89.74	153.49	27786.31	76.47	24.54	21.31	4.46	115.90	27.39	126.82	14.58
7495.26	224417.40	18.20	3422.02	87.57	141.86	27020.00	76.73	23.78	20.47	4.45	109.51	23.64	122.64	13.97
7495.33	210499.80	18.40	3572.05	82.00	142.16	26224.19	75.33	31.47	20.03	7.85	117.88	38.96	100.61	33.05
7495.39	206926.20	18.40	3496.55	79.36	141.72	26218.47	75.14	30.94	21.26	7.93	113.37	39.14	99.15	32.82
7495.46	211684.80	18.40	3389.96	79.09	147.01	27663.36	78.09	224.41	23.52	10.13	118.32	41.22	98.52	31.60
7495.52	217750.00	18.40	3342.95	83.85	146.55	27287.93	76.09	230.01	23.25	10.01	118.62	40.73	99.39	30.99
7495.59	246789.60	18.00	3318.96	85.31	174.14	28819.43	75.64	242.92	23.19	10.43	122.39	39.91	104.50	31.14
7495.66	291302.20	17.60	2960.12	85.46	217.20	28345.78	72.44	247.63	22.39	7.57	118.38	26.12	117.28	10.98
7495.72	314513.20	17.40	2950.47	93.55	217.11	28254.69	76.26	3074.28	22.17	5.88	116.11	25.43	117.77	12.16
7495.79	312787.40	17.40	2928.21	90.79	210.10	25614.25	74.44	2924.28	19.29	4.27	111.79	24.04	116.13	12.86
7495.85	316005.20	17.40	2869.47	86.87	208.77	25192.82	83.94	2929.24	89.34	6.56	125.20	47.32	97.45	33.44
7495.92	320905.80	17.40	2972.94	88.41	187.30	24371.71	86.51	3021.61	89.31	6.53	126.35	49.74	98.09	33.52
7495.98	311808.80	17.40	3146.87	94.66	152.88	27058.41	91.01	3035.53	92.90	7.70	128.03	49.30	105.05	33.90
7496.05	303390.80	17.40	3027.13	91.75	153.57	26978.41	89.61	550.19	92.90	9.23	134.88	49.91	105.83	32.69
7496.12	298851.40	17.40	3050.59	95.67	158.45	27849.47	92.57	570.98	94.47	9.59	147.68	49.69	108.84	32.95
7496.18	296583.80	17.40	3073.69	101.41	158.24	28178.90	81.00	588.30	25.04	8.06	144.27	27.80	128.10	12.88
7496.25	252435.00	17.80	2982.03	102.20	158.76	27187.53	81.37	491.42	24.46	8.15	152.62	27.01	126.74	12.26
7496.31	276354.80	17.60	3052.10	108.81	152.02	27834.36	86.66	475.97	26.69	7.85	161.80	27.28	132.60	13.08
7496.38	281053.40	17.60	5140.95	112.54	156.48	29194.04	87.82	136.24	30.06	8.44	167.48	27.65	133.66	12.99
7496.44	275472.20	17.60	5112.42	116.68	153.41	30341.08	83.59	89.92	32.17	9.31	168.15	29.16	134.98	12.29
7496.51	292101.20	17.40	5030.10	110.95	161.12	31772.17	90.12	70.07	35.16	8.77	177.02	31.55	137.52	11.99
7496.57	318924.80	17.20	5032.60	116.36	169.01	33391.18	93.09	66.93	37.00	8.33	184.62	35.27	137.72	11.56
7496.64	295406.00	17.40	5033.42	118.59	173.81	32908.70	91.03	57.73	34.77	8.25	187.57	34.92	134.60	10.91
7496.71	294244.00	17.40	3005.84	127.57	172.78	34172.23	94.10	63.59	34.59	8.11	204.49	37.08	130.29	11.89
7496.77	305199.40	17.40	3064.39	125.24	176.96	34161.40	96.03	53.44	34.93	7.31	201.66	38.27	126.97	11.98
7496.84	293631.40	17.60	3164.96	132.28	179.11	33151.35	95.03	68.99	32.59	7.43	191.15	37.08	126.20	12.32
7496.90	305499.00	17.40	3195.01	130.24	176.70	35229.62	92.26	89.57	36.35	8.65	191.75	35.49	128.05	12.40
7496.97	290644.00	17.60	3045.73	126.69	177.44	34254.37	91.10	102.24	36.08	8.66	195.95	34.51	123.62	12.38
7497.03	271982.20	17.80	2872.91	116.71	173.72	31463.25	85.14	101.43	32.62	7.85	183.07	31.93	122.95	12.41
7497.10	266641.20	17.80	2814.00	118.64	180.72	31228.62	86.24	133.32	30.63	7.79	189.23	31.31	123.94	12.68

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7497.17	256427.20	17.80	2862.61	116.02	182.53	32800.33	87.30	124.14	31.75	8.17	193.06	29.84	124.47	12.09
7497.23	247711.20	18.00	2804.99	113.90	183.83	31334.04	85.59	101.20	29.86	7.12	201.52	29.80	120.66	12.67
7497.30	238223.20	18.00	2773.64	113.77	190.27	31343.79	83.53	95.85	30.18	7.12	208.17	30.37	124.27	13.31
7497.36	238152.40	18.00	2804.43	118.91	198.38	32567.06	85.41	103.85	33.20	8.56	224.56	30.24	129.53	13.38
7497.43	253028.40	17.80	10723.25	121.99	193.96	32573.16	85.46	80.68	36.38	9.02	234.83	29.41	131.22	13.40
7497.49	270050.00	17.60	10557.15	125.17	196.69	32860.51	84.76	75.29	38.85	9.27	251.60	31.97	127.54	12.94
7497.56	283491.20	17.40	10639.42	133.23	208.72	33919.54	95.12	84.58	43.28	11.22	248.28	33.48	130.25	11.60
7497.62	310039.60	17.20	10702.27	135.38	204.17	34440.66	102.50	83.10	45.37	11.04	236.14	35.43	130.42	10.18
7497.69	326210.20	17.00	10806.76	132.37	200.70	34168.21	110.73	72.07	42.60	11.01	220.00	37.55	131.64	10.06
7497.76	332455.80	17.00	2899.23	135.57	198.15	34400.62	120.92	61.50	38.63	10.63	209.75	39.51	132.58	9.66
7497.82	344454.40	17.00	2983.64	133.76	193.84	36645.44	126.42	53.04	39.08	11.48	193.18	38.84	135.22	10.63
7497.89	354371.80	17.00	2929.49	122.51	186.54	36380.55	124.70	41.99	34.06	11.43	175.38	38.48	133.67	12.40
7497.95	351546.80	17.00	2905.76	119.00	188.69	35716.68	123.56	37.75	30.85	12.17	165.25	41.11	130.01	12.85
7498.02	352497.40	17.00	2841.95	113.48	191.30	35230.36	119.98	65.30	31.41	12.29	155.74	42.82	127.40	12.01
7498.08	351461.80	17.00	2777.92	103.70	193.27	34143.16	114.63	91.03	31.17	12.95	144.11	46.21	123.23	11.14
7498.15	347901.40	17.00	2699.16	102.59	189.74	31211.95	115.46	130.31	29.18	12.62	137.16	45.49	121.75	11.54
7498.22	344405.60	17.00	2729.05	107.04	179.70	30034.70	115.06	129.19	28.58	12.68	134.36	45.18	125.20	10.41
7498.28	354051.40	17.00	2855.55	108.17	169.35	31957.77	118.70	128.59	31.80	13.92	132.03	42.47	128.25	10.06
7498.35	360437.60	17.00	2940.69	112.08	163.40	33021.95	119.55	97.24	33.75	14.98	129.97	40.63	128.84	11.16
7498.41	369928.20	16.80	3159.43	106.73	165.43	36649.34	120.72	63.68	37.91	16.04	124.59	35.85	131.59	12.95
7498.48	392745.40	16.60	3366.90	106.66	172.26	40600.16	127.04	25.47	40.11	17.38	123.87	36.56	139.32	12.08
7498.54	404426.00	16.40	3359.34	107.23	178.99	41432.71	136.51	45.87	39.38	20.18	129.31	56.88	123.53	35.45
7498.61	408477.00	16.20	3333.73	106.98	180.27	40150.99	134.58	43.98	37.06	19.21	131.75	58.03	125.90	36.74
7498.67	413927.60	16.20	3179.33	101.96	202.03	38562.73	144.14	62.76	54.63	20.23	134.13	85.25	118.40	54.91
7498.74	411257.20	16.40	2891.93	101.28	227.50	34631.96	144.79	77.70	49.92	18.70	144.61	102.02	113.46	52.69
7498.81	397315.00	16.40	2488.72	95.02	262.29	28996.19	130.67	83.35	44.22	17.28	157.72	125.07	98.01	51.11
7498.87	398592.60	16.40	2516.84	93.20	266.94	29483.43	124.59	62.12	45.81	14.00	154.82	106.48	112.89	29.30
7498.94	397653.60	16.40	2515.48	90.35	273.64	30810.30	124.63	60.21	45.91	14.54	155.59	104.57	112.03	28.40
7499.00	406386.20	16.20	2639.21	91.28	254.89	32653.14	121.65	44.38	27.19	12.99	156.29	78.82	120.49	9.30
7499.07	415081.20	16.00	2852.00	95.00	222.79	35791.10	121.40	31.89	30.13	14.60	147.12	61.66	128.43	11.19
7499.13	416827.00	16.00	3143.91	100.46	179.29	38847.02	131.88	25.31	33.20	15.19	134.87	38.19	138.69	12.06
7499.20	376156.00	16.40	2969.72	94.67	176.95	37222.37	128.52	24.87	29.88	15.02	133.59	36.24	132.74	11.01
7499.27	327393.40	17.00	2967.91	94.18	181.61	35905.56	127.92	26.65	28.54	14.43	127.60	35.47	125.76	8.38

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7499.33	312283.00	17.20	2934.74	96.62	201.59	35565.77	120.92	24.38	26.86	14.13	125.08	34.45	121.09	7.95
7499.40	293669.00	17.40	2910.52	96.79	209.63	35532.39	120.99	26.30	27.64	14.22	126.52	36.17	116.13	7.42
7499.46	271127.40	17.60	2895.44	91.21	210.01	34987.65	112.91	26.32	26.18	14.51	123.08	36.81	113.83	8.49
7499.53	282653.60	17.60	3066.80	91.32	208.31	36368.41	110.63	27.04	30.40	14.51	121.92	36.40	118.50	7.96
7499.59	291362.20	17.40	2896.79	84.68	191.04	34899.31	109.77	40.17	30.36	14.78	119.60	36.04	120.68	10.95
7499.66	269619.80	17.60	2888.25	81.26	164.56	32864.09	106.33	57.38	29.90	14.59	116.44	33.03	123.14	11.10
7499.72	240482.60	17.80	2711.74	76.84	152.03	28942.04	97.00	83.17	26.91	13.71	110.87	30.80	125.26	11.73
7499.79	219149.00	18.00	2691.09	79.61	150.42	26104.67	94.79	128.48	24.59	12.86	113.14	29.62	123.44	10.45
7499.86	218843.20	18.00	2613.15	86.48	143.86	24009.84	94.68	173.73	21.45	13.18	112.07	30.03	125.33	11.83
7499.92	227947.80	18.00	2707.69	89.72	153.86	23805.40	90.40	214.74	21.03	13.21	116.13	29.62	129.05	12.01
7499.99	224760.00	18.00	1454.16	116.17	158.81	25197.42	92.24	202.81	21.91	13.47	379.08	30.25	125.49	14.45
7500.05	245435.00	17.80	282.69	150.60	170.29	28893.49	94.37	171.64	26.04	13.85	720.04	28.42	121.08	13.52
7500.12	273726.20	17.60	-41.82	165.20	174.50	29341.16	97.43	123.84	27.26	14.58	761.30	28.48	125.43	13.22
7500.18	283038.40	17.40	-813.20	194.62	184.44	30887.02	97.53	78.73	28.41	14.52	979.14	27.33	120.33	12.48
7500.25	286618.80	17.40	-1035.28	213.69	191.04	30979.19	98.48	21.27	30.35	14.86	1025.51	26.69	118.94	11.67
7500.31	286851.40	17.40	-88.92	201.33	197.14	29772.00	107.81	33.26	29.19	18.49	765.95	103.36	102.15	34.00
7500.38	288425.40	17.40	834.78	183.21	197.33	30486.46	113.31	34.92	25.76	17.72	498.42	106.51	104.09	34.67
7500.45	262557.00	17.60	1013.42	172.61	194.35	29351.22	110.91	37.06	25.47	16.73	461.81	105.30	102.05	35.25
7500.51	245918.60	17.80	1584.49	148.51	187.51	26889.30	110.15	36.41	24.41	16.37	284.36	106.40	107.97	35.64
7500.58	252567.20	17.60	1593.37	137.83	176.78	26717.57	111.66	40.01	22.41	15.09	292.99	107.45	108.82	36.64
7500.64	264224.80	17.40	1627.43	140.55	172.17	26753.83	103.66	24.58	23.82	11.31	350.59	31.39	130.93	11.90
7500.71	259597.40	17.60	1600.48	133.89	167.65	22974.96	105.52	29.62	23.93	11.35	337.87	32.77	126.23	11.30
7500.77	274181.40	17.60	1285.65	148.34	169.40	24049.95	106.13	32.18	24.70	11.60	406.42	36.14	125.08	11.11
7500.84	281966.80	17.60	1299.03	147.14	171.03	24464.18	108.17	32.12	24.26	11.79	398.91	37.81	123.81	10.58
7500.91	275894.00	17.80	726.07	173.95	182.99	25166.25	108.36	31.81	25.23	12.30	556.10	39.31	119.03	10.50
7500.97	274708.00	18.00	-177.27	172.52	181.57	26785.05	103.65	27.66	25.70	12.27	681.80	39.92	111.98	9.35
7501.04	247084.40	18.20	186.33	167.56	177.93	26272.19	109.69	35.95	25.91	14.60	623.27	51.30	99.87	31.88
7501.10	220450.60	18.40	583.54	146.21	181.65	25758.49	109.35	40.34	24.88	14.10	544.36	48.09	97.13	32.83
7501.17	220504.80	18.40	752.61	137.62	177.43	27024.89	124.65	59.38	37.40	17.15	510.96	62.57	76.85	55.60
7501.23	213925.00	18.40	1532.56	106.11	166.94	28335.25	125.94	70.76	37.89	17.96	295.22	59.88	79.23	54.81
7501.30	204096.00	18.40	2585.00	91.61	158.97	26571.43	132.48	131.80	38.37	18.49	105.41	57.57	80.38	57.19
7501.36	219909.20	18.20	2446.74	86.64	161.42	26975.18	122.93	150.84	37.27	16.44	101.36	43.24	94.54	34.60
7501.43	235114.80	18.00	2386.13	88.28	150.14	27654.40	128.33	164.25	38.24	17.16	102.30	43.22	92.93	34.33

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7501.50	219872.40	18.00	2308.81	85.26	151.28	26378.10	111.07	167.25	27.45	14.97	100.51	29.81	108.58	11.28
7501.56	227685.80	18.00	2239.09	81.01	148.76	24004.05	109.19	174.65	26.12	13.70	100.47	33.26	105.79	11.84
7501.63	234945.40	18.00	2291.25	81.20	156.12	23700.61	106.58	802.37	25.33	13.24	100.81	33.68	106.86	10.82
7501.69	263537.20	17.80	2363.81	86.16	151.34	23873.06	108.04	932.60	25.68	13.03	104.05	34.48	109.37	12.00
7501.76	292149.00	17.60	2411.88	90.63	156.94	23772.47	107.63	1109.62	25.71	12.72	106.25	35.75	112.16	11.98
7501.82	299730.40	17.60	2412.62	89.87	148.25	23548.89	109.15	1103.95	24.72	11.48	105.43	31.92	111.96	11.49
7501.89	290976.00	17.60	2366.72	88.94	143.32	23541.25	109.70	1097.14	24.95	11.75	105.69	29.02	114.05	10.63
7501.96	291083.60	17.60	2327.49	84.34	140.57	23382.11	107.89	433.06	24.44	11.36	106.46	30.17	112.78	11.19
7502.02	274134.40	17.80	2329.20	78.26	137.12	23406.46	106.92	293.31	25.60	12.05	105.13	29.81	109.80	10.17
7502.09	260901.00	17.80	2299.51	73.16	133.91	24107.83	105.54	489.10	26.59	12.56	103.60	28.22	108.11	9.27
7502.15	269547.40	17.80	2285.35	78.23	137.38	25645.54	106.75	643.29	27.40	13.97	104.81	27.44	110.34	10.14
7502.22	274760.80	17.80	2313.67	80.94	140.92	26790.23	105.63	689.02	27.86	14.89	104.62	28.53	109.29	10.30
7502.28	276614.00	17.80	2288.85	85.48	140.78	27354.62	109.29	1036.47	28.91	16.21	106.56	29.75	109.60	9.46
7502.35	272082.60	17.80	3934.20	88.16	141.84	26853.51	108.35	1035.77	27.66	15.95	107.06	29.79	113.06	10.41
7502.41	269115.00	18.00	3861.37	87.88	144.35	26270.26	106.63	666.07	27.69	15.83	109.13	31.78	115.46	11.56
7502.48	291048.40	17.60	3873.68	87.24	145.30	26119.87	108.31	560.73	28.37	15.91	111.42	33.65	116.65	11.03
7502.55	316223.20	17.40	3866.89	88.57	147.11	26153.86	114.12	812.76	29.25	15.71	114.32	34.79	117.75	11.25
7502.61	332285.80	17.20	3881.55	87.64	148.05	26298.56	114.18	904.99	28.61	14.99	112.49	35.95	122.02	9.75
7502.68	350640.40	17.00	2151.77	88.94	150.53	27466.45	116.10	918.88	31.34	15.94	113.22	37.10	120.17	8.58
7502.74	359302.80	16.80	2175.83	94.24	143.17	27046.05	115.64	907.65	29.45	16.01	113.01	35.83	117.73	8.51
7502.81	344997.80	17.00	2111.37	89.69	139.24	25950.78	110.06	860.51	27.85	15.38	111.47	35.58	115.67	8.52
7502.87	334344.20	17.00	2085.66	86.10	134.90	25329.11	104.59	583.85	26.76	15.28	112.14	34.08	115.16	8.84
7502.94	314079.00	17.20	2172.94	89.30	131.56	26170.28	107.20	326.28	29.62	16.31	116.71	31.98	113.61	11.30
7503.01	315868.00	17.20	2201.68	89.60	134.36	26451.41	106.68	311.80	27.76	15.94	117.75	32.52	113.47	11.76
7503.07	313956.60	17.20	2243.33	86.99	144.43	28057.50	108.80	801.52	29.40	16.72	117.88	35.06	113.34	12.65
7503.14	313620.60	17.20	2255.36	89.35	148.35	28466.57	111.16	944.86	28.88	16.59	116.23	35.19	114.30	13.27
7503.20	307491.60	17.20	2242.28	89.36	154.91	28697.48	112.04	941.53	28.85	17.24	114.72	36.91	116.32	12.55
7503.27	314760.00	17.00	2164.10	83.88	160.23	28601.97	108.28	1231.92	28.22	16.83	110.98	37.74	112.94	10.95
7503.33	295255.00	17.20	4202.18	79.18	157.89	26975.51	103.57	1245.71	26.53	16.85	109.61	37.15	113.09	10.19
7503.40	278789.60	17.40	4138.53	76.16	150.23	25420.67	101.74	771.37	25.90	16.63	107.76	35.55	113.59	9.68
7503.46	269836.40	17.60	4167.79	78.91	160.55	25781.74	105.55	3504.20	27.97	15.53	110.75	36.83	111.71	8.85
7503.53	270889.20	17.60	4159.06	77.83	158.37	25223.26	100.87	3511.86	26.89	14.92	109.68	35.31	109.08	9.91
7503.60	270281.60	17.60	4114.19	78.96	154.92	23981.92	99.76	3088.95	24.07	14.46	109.76	35.43	110.41	10.54

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7503.66	277333.60	17.40	2043.86	77.94	152.51	24457.56	100.99	3111.00	26.15	13.92	110.37	37.43	111.02	10.52
7503.73	295956.00	17.20	2138.68	82.33	158.18	26256.67	97.69	3111.80	26.77	13.56	112.95	37.36	114.20	10.25
7503.79	303402.20	17.00	2158.41	80.62	150.32	26283.31	93.72	264.53	26.73	15.57	112.43	37.57	118.34	10.72
7503.86	305027.80	17.00	2196.36	84.46	153.85	26846.09	96.33	746.20	28.68	15.79	116.67	39.10	117.83	9.74
7503.92	305296.60	17.00	2275.16	84.94	159.74	27017.61	104.73	689.65	52.26	18.30	118.81	57.03	106.73	32.87
7503.99	305406.80	17.00	2363.97	91.83	165.10	27049.00	105.29	641.64	51.62	18.82	120.19	56.45	108.81	33.78
7504.06	302734.60	17.00	2299.29	88.33	168.59	25659.80	106.74	640.24	51.31	18.77	123.09	55.78	108.66	33.86
7504.12	304790.00	17.00	2289.92	91.27	167.29	25473.06	108.16	615.86	51.43	18.47	127.36	57.48	108.67	34.55
7504.19	312176.80	17.00	2364.43	92.77	167.20	27252.45	109.89	115.23	51.56	18.93	124.92	57.21	114.65	35.34
7504.25	315525.00	17.00	2414.17	93.88	166.36	27445.57	100.05	196.80	29.23	16.74	126.00	39.04	127.00	12.73
7504.32	318552.20	17.00	4138.03	91.11	161.00	27185.12	99.04	212.63	28.98	16.20	126.41	38.02	125.21	12.35
7504.38	313994.80	17.00	4223.73	90.04	156.28	27804.28	101.60	201.33	30.36	15.97	123.18	38.56	125.39	12.24
7504.45	304518.20	17.20	4303.62	92.14	151.66	27339.96	97.54	182.54	29.74	15.88	116.79	37.02	124.45	12.43
7504.51	293297.60	17.20	4320.98	88.34	145.08	25400.38	95.83	164.48	28.11	14.90	115.26	36.15	120.75	12.26
7504.58	293505.80	17.20	4390.37	88.73	141.61	28187.76	102.88	72.90	28.86	15.34	112.57	36.76	124.06	11.53
7504.65	292750.20	17.20	2684.00	89.68	151.41	30420.62	113.34	66.02	32.44	18.35	111.18	54.94	109.49	30.09
7504.71	309243.00	17.20	2687.50	92.98	149.01	31965.52	121.78	54.44	33.62	20.44	112.86	56.59	111.24	31.30
7504.78	333863.40	16.80	2637.42	96.54	155.28	35619.07	139.78	62.34	34.29	21.47	114.14	59.23	116.09	29.68
7504.84	349331.20	16.80	2578.23	101.66	160.27	37952.11	153.06	95.19	37.61	23.99	115.80	63.68	120.61	29.44
7504.91	359275.40	16.80	2514.78	101.42	159.97	36984.37	154.41	104.61	37.65	24.55	114.98	63.08	126.54	30.35
7504.97	372528.80	16.80	2694.53	107.84	158.41	37903.56	156.43	102.40	35.21	23.00	113.43	45.79	152.80	12.07
7505.04	371141.00	16.80	2708.60	111.12	169.48	38953.84	157.94	100.65	35.55	22.62	113.98	47.30	154.23	10.58
7505.10	366358.20	17.00	2899.80	108.81	165.39	38227.48	148.19	105.45	31.90	25.35	120.85	59.83	132.94	34.86
7505.17	370333.00	17.00	3117.62	108.88	164.97	39722.09	138.98	71.11	32.81	23.51	118.31	54.67	130.43	34.85
7505.24	368363.60	17.00	3183.58	106.59	153.04	39872.22	131.13	56.38	33.73	22.32	118.81	52.84	122.97	34.80
7505.30	358662.60	17.00	3058.64	102.00	143.27	36833.26	121.40	47.11	33.68	21.11	120.53	52.05	111.28	34.97
7505.37	348777.20	17.00	3017.34	99.18	127.74	34010.19	118.37	72.35	31.79	20.61	117.71	49.75	109.82	34.39
7505.43	348039.20	17.00	2828.55	96.87	130.73	31187.52	117.14	147.50	34.17	17.50	111.59	32.59	127.76	11.26
7505.50	344829.40	17.00	2651.21	93.59	125.23	27821.91	122.05	195.29	31.07	18.65	115.06	34.94	130.54	11.93
7505.56	347478.60	17.00	2559.23	94.33	135.85	26578.76	131.04	278.04	28.79	20.17	120.28	39.04	132.00	11.31
7505.63	357289.60	17.00	2499.57	90.33	139.82	27143.30	135.74	299.08	27.61	20.68	120.88	43.18	133.40	11.18
7505.70	361761.60	17.00	2502.61	92.47	138.96	26051.44	129.41	296.14	26.42	20.45	123.06	45.97	133.20	11.53
7505.76	361375.60	17.00	2500.89	93.13	136.31	26638.72	130.15	273.14	27.09	20.45	126.15	49.89	133.10	12.50

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7505.83	358866.20	17.00	2429.16	93.72	139.68	27404.07	130.21	254.30	27.66	20.29	125.43	51.74	129.60	11.75
7505.89	341931.60	17.20	2395.30	91.71	135.60	27511.33	127.24	182.45	28.70	19.96	124.46	50.33	131.98	11.64
7505.96	345214.80	17.00	2346.99	95.58	137.04	28837.70	125.95	156.73	28.84	20.35	125.26	47.09	130.27	11.55
7506.02	351786.80	17.00	2337.27	91.58	142.56	29869.26	127.23	155.47	29.29	20.23	125.88	47.33	128.66	11.53
7506.09	348143.00	17.00	2350.70	90.07	138.40	29577.36	126.65	97.11	29.29	19.94	123.27	45.29	127.99	10.36
7506.15	342595.40	17.00	2414.15	89.94	135.23	29130.15	120.29	96.91	29.94	19.15	123.52	42.52	127.63	10.79
7506.22	352656.80	16.80	2409.44	90.78	131.78	28788.42	116.38	86.43	29.12	18.28	121.83	42.18	123.62	11.04
7506.29	331619.00	17.20	2493.90	88.69	127.38	27213.63	114.61	85.96	29.97	17.71	122.05	41.06	124.93	12.40
7506.35	329396.20	17.20	2641.26	92.03	125.11	27007.78	114.63	62.43	30.00	17.51	122.23	39.19	124.73	12.99
7506.42	327802.00	17.20	2759.10	90.56	128.37	27966.09	111.37	52.11	29.76	17.27	120.80	38.21	124.95	12.88
7506.48	341579.00	17.00	2844.53	90.12	130.93	29726.84	115.13	22.71	30.18	17.31	117.30	36.79	123.75	12.33
7506.55	351555.20	17.00	2969.65	96.14	138.11	31298.49	120.75	21.93	31.29	18.05	115.97	35.93	124.48	12.55
7506.61	363789.80	16.80	3029.52	101.90	143.02	33205.18	128.15	23.72	32.72	18.28	115.28	35.70	126.87	11.64
7506.68	364098.60	16.80	2936.99	103.20	149.45	35054.99	132.79	43.59	34.51	18.43	114.02	33.94	128.19	11.56
7506.75	378884.80	16.60	2861.31	104.90	153.29	35618.67	140.22	74.36	35.43	18.22	116.93	35.39	129.98	11.56
7506.81	356808.20	16.80	2729.28	109.26	151.54	33733.81	141.85	99.07	34.88	17.78	120.57	35.25	132.46	12.12
7506.88	337475.00	17.00	2685.65	105.67	150.48	32294.10	136.05	118.57	34.17	16.85	119.20	35.07	133.38	10.30
7506.94	321411.60	17.20	2676.01	102.80	151.62	30074.06	127.46	117.83	30.83	15.76	114.90	35.32	131.61	9.95
7507.01	310686.00	17.20	2669.68	98.11	150.27	30703.99	123.16	97.94	30.25	15.58	113.89	35.57	132.02	9.50
7507.07	284280.20	17.60	2742.76	95.35	151.66	30916.90	113.54	66.23	29.59	15.30	107.21	32.39	127.25	9.78
7507.14	279967.00	17.80	2846.03	90.44	148.21	31271.30	105.38	44.47	29.07	15.00	104.29	33.69	121.02	8.58
7507.20	273909.40	17.80	2901.90	89.54	146.12	31324.70	105.63	23.89	28.40	14.29	103.09	32.23	117.18	10.07
7507.27	270229.00	17.80	3147.51	82.25	141.11	31871.95	103.51	20.67	29.29	13.90	102.16	29.56	112.01	9.95
7507.34	272883.00	17.80	3223.35	84.92	132.76	29318.19	97.62	19.88	28.47	12.97	103.03	28.77	107.26	10.54
7507.40	280017.20	17.60	3162.00	84.45	126.26	27938.54	99.99	20.46	28.93	12.31	111.49	30.36	107.61	10.20
7507.47	278876.20	17.60	3133.12	83.21	131.78	27005.35	103.06	18.84	28.13	12.58	115.14	30.40	111.21	11.60
7507.53	287557.40	17.40	3041.06	81.63	136.57	26511.51	100.47	18.29	28.69	13.22	120.37	33.76	112.22	12.01
7507.60	276514.00	17.40	2625.15	81.48	152.46	25385.29	97.91	24.87	27.92	13.64	135.17	35.29	115.80	13.11
7507.66	262420.60	17.60	2544.41	79.05	159.41	24473.22	100.53	27.68	25.85	13.65	133.97	34.23	118.77	13.18
7507.73	247223.40	17.80	2519.01	79.07	163.75	23449.28	97.36	29.07	24.63	13.78	130.14	32.24	118.22	12.66
7507.80	240741.40	17.80	2409.35	75.02	161.38	23328.86	92.10	27.89	25.18	13.63	127.79	29.79	120.23	12.64
7507.86	222344.80	18.00	2394.54	74.77	157.21	22087.97	88.14	30.53	23.70	12.63	123.87	25.86	118.06	11.69
7507.93	233703.40	18.00	2435.11	77.61	135.32	22068.89	89.83	29.61	23.96	12.76	114.58	26.54	117.93	11.28

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7507.99	252167.80	17.80	2341.58	75.06	133.72	21937.80	87.80	41.63	24.18	13.00	118.33	27.16	119.41	10.60
7508.06	268313.60	17.60	2239.51	72.81	139.37	21819.36	86.23	77.45	23.06	13.33	123.60	29.44	120.58	11.38
7508.12	288509.60	17.40	2263.79	76.99	144.16	21582.80	90.48	96.25	21.23	13.27	126.63	34.41	117.17	9.45
7508.19	312634.20	17.20	2263.33	76.87	147.84	22619.92	97.78	116.33	21.53	14.03	130.14	38.11	117.64	9.84
7508.25	323352.00	17.00	2170.51	75.39	176.88	24217.28	96.50	112.47	22.52	14.23	140.07	53.58	112.24	8.44
7508.32	306007.00	17.20	11490.53	79.10	182.26	24534.58	99.29	117.23	22.01	14.27	143.05	58.41	105.40	9.17
7508.39	296444.00	17.40	11546.89	81.20	185.96	24225.74	103.28	90.01	22.89	14.56	143.23	65.94	103.03	7.62
7508.45	303856.60	17.40	11517.92	83.33	196.31	24097.81	103.69	80.30	24.32	14.49	153.39	71.28	102.69	9.76
7508.52	307545.40	17.40	11415.02	83.22	198.70	23513.54	101.90	68.33	25.41	14.70	160.33	75.84	105.60	9.93
7508.58	314846.40	17.40	11523.78	85.39	176.50	22753.56	107.70	75.93	25.37	14.71	151.38	63.84	110.75	10.13
7508.65	323260.60	17.20	2245.32	87.14	172.28	23510.45	109.22	64.70	27.64	14.93	148.31	62.71	114.33	9.36
7508.71	326253.20	17.00	2207.23	88.78	160.26	24378.25	108.34	82.76	28.03	14.89	142.99	58.03	117.33	10.98
7508.78	299767.80	17.20	2266.19	84.69	151.39	24643.06	108.78	144.13	27.43	14.94	131.50	52.71	119.76	9.81
7508.85	321191.40	17.00	2224.52	81.36	153.98	32372.96	111.67	246.38	30.76	15.36	126.73	51.28	112.15	10.76
7508.91	333906.80	16.80	2223.94	83.04	156.17	33200.56	112.68	258.50	31.47	15.60	125.84	49.25	115.53	11.10
7508.98	328477.20	17.00	2242.61	80.47	149.63	32550.40	110.07	265.10	30.61	14.88	121.10	45.12	118.46	11.96
7509.04	321981.00	17.20	2313.12	77.47	143.30	31469.12	109.41	249.54	28.81	13.70	120.20	41.42	121.66	12.30
7509.11	326271.40	17.20	2371.14	80.70	134.70	30356.80	104.15	184.06	27.91	12.46	117.43	37.17	121.47	12.74
7509.17	328500.60	17.20	2280.27	82.48	145.18	36076.89	98.03	74.23	28.79	11.20	117.32	35.16	113.42	11.63
7509.24	320769.00	17.40	2350.86	84.67	143.28	34560.25	95.20	63.66	27.35	10.51	115.88	37.68	112.14	11.30
7509.30	332479.80	17.20	6974.14	87.60	147.21	33855.03	91.66	96.13	27.23	11.38	120.50	52.66	110.05	9.54
7509.37	340543.80	17.00	6934.18	85.98	151.11	33952.74	91.88	429.77	28.18	12.74	120.33	53.94	106.17	9.05
7509.44	360986.20	16.80	6891.25	84.37	149.22	34715.70	94.35	559.08	29.48	14.31	123.40	54.43	107.05	9.40
7509.50	326283.20	17.00	7135.81	87.29	128.13	21135.08	94.22	936.33	23.95	14.88	118.91	52.08	123.48	9.53
7509.57	302746.00	17.20	7018.23	86.84	120.49	20809.47	89.55	981.85	21.97	14.53	117.42	48.36	122.00	9.89
7509.63	307614.40	17.20	2405.78	84.42	120.27	21886.99	91.74	958.24	22.56	13.44	113.81	35.23	125.01	11.00
7509.70	312974.00	17.20	2415.45	86.60	118.64	23510.96	92.35	649.25	23.88	13.14	113.90	33.44	126.45	10.48
7509.76	309866.40	17.20	2423.63	85.98	126.85	24623.05	95.20	545.73	25.73	14.08	113.17	33.82	128.12	10.83
7509.83	318731.40	17.20	2397.78	85.82	132.04	26077.41	103.21	1221.95	28.83	14.99	112.07	37.87	127.80	11.53
7509.90	351418.60	16.80	2513.45	87.29	137.36	31320.92	111.49	1579.29	34.23	16.66	113.86	38.85	128.32	11.46
7509.96	346326.00	16.80	2440.29	88.49	132.91	32033.55	114.90	1609.12	33.31	17.81	112.92	38.85	125.55	11.09
7510.03	345114.80	16.80	2449.29	89.23	134.20	31502.83	114.72	1977.23	31.18	18.07	111.74	42.04	123.74	12.28
7510.09	345462.80	16.80	2396.58	90.95	131.37	31555.28	119.25	2972.70	28.99	17.66	110.02	47.11	123.03	10.66

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7510.16	342228.60	16.80	2382.32	93.43	129.30	30867.54	113.47	2352.72	25.62	17.39	108.60	44.55	123.11	10.04
7510.22	316088.20	17.20	2275.45	85.81	128.93	26605.10	102.68	2021.55	20.53	16.93	107.97	46.49	125.80	9.79
7510.29	306574.80	17.40	2446.74	85.13	135.11	26530.28	99.39	2000.37	22.81	18.33	106.55	47.52	127.65	10.35
7510.35	304215.20	17.40	2445.51	86.33	137.79	27141.63	103.00	1634.01	25.66	19.58	107.18	48.11	128.51	9.30
7510.42	289164.80	17.60	2482.31	85.80	134.80	25823.47	92.60	633.32	25.16	19.14	106.95	44.59	127.17	10.37
7510.49	291863.80	17.60	2510.92	84.61	135.59	29926.76	102.47	204.92	27.97	20.51	108.02	43.81	124.13	9.91
7510.55	293744.20	17.40	2586.86	91.77	135.93	30473.09	106.45	130.03	29.47	20.47	107.08	44.06	123.51	10.49
7510.62	273681.20	17.40	2283.51	87.95	127.95	28611.85	103.97	102.62	26.63	18.58	102.34	41.81	116.08	9.44
7510.68	291516.20	17.20	2275.32	86.87	131.12	28283.86	101.87	76.41	26.54	18.56	104.11	41.37	120.53	9.20
7510.75	313794.20	17.00	2244.28	91.26	134.60	29227.92	106.84	64.94	27.51	19.25	105.86	43.45	122.83	9.31
7510.81	321380.60	17.00	2228.54	94.58	135.73	25172.68	98.89	78.93	24.55	17.50	109.37	46.72	126.09	8.85
7510.88	341912.60	17.00	2187.90	96.28	145.63	25673.04	103.96	87.53	26.57	18.60	111.91	47.26	125.63	8.69
7510.94	371093.40	16.80	2318.55	101.91	151.01	27158.12	109.71	119.40	27.58	19.41	119.39	49.66	133.73	9.61
7511.01	359767.40	17.00	2275.33	102.53	146.69	27676.71	108.63	106.14	26.43	20.02	119.84	48.88	127.05	9.84
7511.08	369601.80	16.80	2380.00	101.59	158.83	35859.13	117.08	96.40	34.48	20.98	115.64	45.14	123.94	8.67
7511.14	366663.00	16.80	2388.00	96.88	164.70	39021.47	137.59	100.76	36.97	27.21	113.40	57.28	105.10	28.82
7511.21	349683.60	16.80	2326.95	91.99	155.39	38124.68	132.26	83.28	33.82	26.12	110.99	55.16	104.15	28.29
7511.27	354576.80	16.80	3179.79	89.20	157.35	39891.30	131.62	51.51	34.68	27.08	108.69	52.97	100.80	28.17
7511.34	343801.40	17.00	3116.18	84.81	155.10	39096.98	134.31	67.07	34.79	26.24	109.19	54.29	104.41	28.37
7511.40	322676.00	17.20	2991.12	83.61	141.14	30601.96	128.58	80.14	26.96	24.93	113.93	58.03	104.59	29.31
7511.47	316432.00	17.20	2987.29	83.93	136.32	27241.20	103.79	74.43	24.48	18.57	115.41	43.02	123.83	10.93
7511.54	323214.80	17.20	3011.40	90.16	141.53	27602.54	109.65	80.92	26.14	19.54	117.34	43.43	121.91	11.33
7511.60	318625.40	17.20	2192.87	89.04	139.56	25291.67	103.63	81.13	24.19	17.89	119.38	45.37	123.41	11.48
7511.67	326795.00	17.00	2225.40	92.09	140.51	25003.75	100.57	81.34	24.77	17.28	115.77	43.74	121.21	11.25
7511.73	328109.40	17.00	2266.51	92.33	140.96	24537.57	98.73	113.12	24.34	18.02	113.79	40.05	123.47	9.62
7511.80	328335.60	17.00	2237.53	94.25	131.44	25459.41	108.62	225.57	28.32	19.73	109.31	38.31	122.59	8.76
7511.86	334668.60	17.00	2197.52	87.06	124.30	25985.07	118.91	238.81	169.18	20.66	109.70	51.41	106.10	31.13
7511.93	339254.20	17.00	2172.42	93.38	114.61	26010.14	119.11	233.98	169.14	21.61	108.83	48.50	108.53	32.03
7511.99	347262.80	17.00	2275.38	96.98	109.74	28040.35	123.14	222.37	169.39	21.91	108.80	46.04	109.78	32.64
7512.06	352473.00	17.00	2334.67	96.71	110.32	29011.90	125.43	178.69	171.14	22.43	109.32	46.60	108.07	35.31
7512.13	352448.60	17.00	2365.66	98.86	110.50	27952.17	119.95	52.25	169.16	21.40	111.43	48.19	108.06	34.80
7512.19	352588.60	17.00	2381.08	99.20	112.68	27765.06	110.02	44.75	28.79	21.03	111.39	34.66	126.43	11.77
7512.26	364199.00	16.80	2531.27	94.71	136.05	30274.97	122.90	92.90	36.64	23.72	115.62	37.84	123.71	10.82

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7512.32	362680.40	16.80	2401.82	94.39	139.20	28420.30	122.27	142.19	35.10	24.43	120.64	42.11	125.55	10.14
7512.39	358131.20	16.80	2347.47	95.43	132.83	27616.27	114.23	154.21	33.39	23.23	120.61	41.95	130.14	9.60
7512.45	364265.80	16.80	2344.63	95.50	137.29	28595.99	114.82	364.74	33.15	24.36	122.40	42.64	129.81	9.64
7512.52	354238.80	16.80	2413.15	99.05	130.87	27896.19	113.01	360.59	33.67	23.03	122.85	41.61	129.44	9.75
7512.59	338948.20	17.00	2236.93	98.63	110.01	25383.08	103.47	317.88	27.80	19.84	120.75	41.34	130.76	9.87
7512.65	339716.20	17.00	2301.97	99.86	109.19	25266.08	117.69	283.48	43.27	19.72	120.02	56.39	112.46	38.22
7512.72	340728.40	17.00	2314.58	103.37	114.09	25706.22	126.36	387.59	44.89	20.46	119.17	55.85	108.74	37.96
7512.78	332788.60	17.00	2311.33	98.33	115.07	24556.93	125.97	192.29	44.74	19.39	120.84	53.19	107.69	38.46
7512.85	329630.20	17.00	2330.05	95.52	117.34	24077.30	123.29	184.57	46.25	18.84	120.25	52.82	106.47	40.41
7512.91	338837.80	17.00	2491.81	95.74	127.10	25596.41	126.14	179.51	47.78	19.02	124.84	54.12	106.07	39.99
7512.98	335852.20	17.00	2507.26	94.31	128.76	27031.89	111.14	161.55	35.69	18.19	129.45	38.44	120.71	11.27
7513.04	331346.40	17.00	2504.67	92.32	129.11	27140.55	108.81	40.70	36.49	17.58	132.21	40.28	119.99	11.63
7513.11	329910.80	17.00	2460.71	95.63	130.43	27726.13	109.08	50.47	36.74	18.23	136.93	42.75	120.29	11.05
7513.18	322831.00	17.20	2418.42	94.52	135.29	29000.28	116.27	62.03	38.15	20.70	138.23	42.27	119.96	9.82
7513.24	300936.00	17.40	3051.97	91.59	138.14	27805.29	114.56	333.33	37.27	21.29	138.38	38.87	119.05	10.19
7513.31	270299.80	17.60	3042.57	88.48	135.63	24734.38	107.62	339.93	33.34	19.47	132.43	35.42	117.96	10.19
7513.37	246202.80	17.80	3077.71	84.45	131.98	23122.01	98.54	348.76	30.88	17.82	131.35	33.44	115.23	9.24
7513.44	259860.60	17.80	2998.51	82.41	140.24	22172.25	93.18	318.30	30.09	15.75	143.40	51.31	110.90	9.53
7513.50	266941.00	17.60	2938.43	81.36	141.63	20634.45	82.03	306.70	26.46	12.42	150.76	53.77	109.66	10.21
7513.57	271485.20	17.40	2191.64	85.21	133.54	19784.58	81.44	34.38	24.52	10.18	146.09	53.16	108.47	10.26
7513.64	287767.40	17.40	2242.98	86.83	138.12	20744.52	83.13	26.53	26.52	10.37	148.37	52.27	107.91	10.89
7513.70	309044.40	17.20	2135.70	85.31	150.10	22560.91	88.29	15.78	28.61	10.74	150.41	52.57	106.35	10.25
7513.77	303078.60	17.20	2263.46	85.51	142.98	23986.57	94.64	150.56	31.54	11.49	143.26	33.57	110.13	10.76
7513.83	280332.80	17.40	2179.79	82.68	156.23	22778.95	93.13	154.00	32.01	10.72	148.76	32.77	108.79	9.94
7513.90	290200.40	17.40	2180.61	85.04	155.30	23983.54	97.63	156.50	32.54	11.46	154.65	33.68	111.34	9.60
7513.96	300013.60	17.20	2077.76	82.50	158.48	25497.79	112.18	179.69	39.66	17.79	150.82	65.99	98.44	33.39
7514.03	294985.00	17.40	2167.36	84.46	147.26	27090.62	114.84	182.56	40.37	18.16	158.32	66.25	100.95	34.33
7514.09	305879.00	17.20	2206.95	84.52	146.14	29186.38	111.58	49.81	41.64	17.82	161.65	65.93	101.92	33.89
7514.16	338813.00	17.00	2279.93	87.50	141.77	30523.27	118.70	46.09	42.30	18.75	172.78	66.80	105.25	34.06
7514.23	276452.40	17.60	4542.37	90.96	165.00	25277.47	101.05	50.38	36.53	16.94	146.96	57.73	81.64	32.01
7514.29	249665.40	17.80	5871.79	89.25	159.27	25702.86	86.48	29.02	29.67	10.33	160.58	29.62	94.25	7.51
7514.36	255148.60	17.60	6007.98	93.06	165.10	24049.50	85.03	26.88	28.49	9.90	162.83	29.36	98.52	7.08
7514.42	233501.00	17.80	6133.53	94.23	158.91	21538.64	86.53	24.61	27.38	10.22	151.37	27.62	103.38	8.40

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7514.49	228791.40	17.80	6158.77	93.01	157.75	21990.28	81.46	25.30	28.25	10.95	140.51	25.57	103.55	9.00
7514.55	287682.20	17.20	3802.11	80.82	136.39	26852.67	95.79	17.82	34.61	12.94	166.58	35.00	128.56	11.14
7514.62	315508.80	17.00	2648.29	82.28	141.38	25908.23	99.14	16.30	35.01	15.06	159.15	31.41	138.12	12.54
7514.69	318780.00	17.00	2582.23	79.15	136.11	25627.43	99.10	16.20	34.73	16.15	153.80	28.84	138.46	13.84
7514.75	322613.80	17.00	2625.52	81.73	134.25	25470.89	98.16	15.20	33.26	17.11	153.91	29.74	135.74	13.19
7514.82	320329.40	17.00	2787.19	85.34	118.35	25747.33	101.28	15.17	33.99	17.89	141.53	27.93	141.93	12.15
7514.88	316671.40	17.00	3037.30	91.33	117.36	28421.38	100.30	18.58	37.54	18.69	138.01	24.72	143.21	12.84
7514.95	313713.40	17.00	3105.00	99.99	110.01	28104.49	97.78	18.36	38.72	18.63	134.91	23.98	141.95	12.86
7515.01	306287.20	17.00	3096.31	97.26	105.49	27162.70	93.13	17.70	38.98	18.75	131.56	25.90	143.77	12.01
7515.08	301071.60	17.00	3087.16	97.40	105.03	26433.96	92.46	17.77	37.95	18.45	131.43	25.09	145.37	11.61
7515.14	323685.80	16.80	3148.32	99.25	113.96	28599.47	104.64	22.28	36.94	20.57	129.08	24.08	147.84	12.30
7515.21	345088.40	16.60	3050.76	101.59	114.55	29169.89	117.68	21.45	37.87	22.64	126.09	25.75	149.29	11.58
7515.28	353024.40	16.60	3061.24	98.11	118.62	31661.38	126.00	21.63	37.94	24.15	125.04	25.24	148.52	11.43
7515.34	365798.00	16.60	3144.48	102.51	122.39	34332.35	140.23	23.09	39.11	26.14	121.95	23.27	148.41	11.31
7515.41	369122.60	16.60	3229.57	101.93	131.05	38250.90	149.37	25.71	44.33	27.60	120.68	23.04	150.27	12.67
7515.47	352684.80	16.80	3358.55	106.19	132.63	38978.19	151.72	21.54	45.77	27.27	125.55	22.51	149.70	13.26
7515.54	356711.00	16.80	3400.19	106.23	134.03	38135.60	154.69	21.33	46.03	27.63	130.86	22.54	151.54	14.72
7515.60	372449.00	16.60	2998.04	99.68	175.89	35807.95	153.48	22.41	44.25	24.62	171.32	33.86	137.81	13.49
7515.67	380762.00	16.40	2848.88	96.28	227.09	34029.70	143.80	21.00	41.68	21.09	189.42	38.42	130.39	13.95
7515.73	411887.40	16.20	2292.58	84.21	306.42	31601.64	136.03	17.52	35.53	17.64	234.13	52.12	115.50	10.08
7515.80	437351.60	16.00	1576.64	67.79	367.41	31453.06	115.93	16.03	32.16	13.54	272.35	73.38	87.95	7.43
7515.87	440234.80	16.00	1234.58	58.21	414.13	30079.02	102.81	13.65	27.16	9.05	301.90	86.04	70.60	4.32
7515.93	422108.00	16.20	1405.18	58.22	384.06	29895.76	95.94	14.05	28.06	9.90	286.74	75.32	79.18	4.71
7516.00	429928.60	16.20	1569.81	65.53	351.90	32928.41	105.01	17.10	32.63	11.45	281.91	73.68	91.12	4.80
7516.06	412702.40	16.40	2091.08	85.50	271.96	33676.83	115.28	20.68	36.61	13.37	240.24	59.72	107.85	7.66
7516.13	377791.00	16.60	2761.13	104.31	205.69	32625.61	129.26	24.06	38.99	15.68	200.40	38.98	136.19	10.44
7516.19	368904.60	16.60	3204.48	117.89	165.73	33571.44	134.11	30.71	41.76	18.77	170.32	27.14	156.54	12.49
7516.26	374905.80	16.60	3437.64	128.52	157.70	35085.15	143.24	40.05	42.27	20.07	149.65	27.06	166.05	14.27
7516.33	361139.00	16.80	4173.34	131.80	145.81	32631.39	141.39	189.36	39.66	20.69	147.16	25.02	167.36	15.41
7516.39	348256.20	16.80	3964.20	124.10	150.46	30229.59	132.35	210.58	36.58	20.69	165.22	26.45	165.17	14.99
7516.46	350179.60	16.80	3545.10	110.77	151.09	27011.65	125.46	244.49	33.84	20.57	190.79	27.67	157.43	14.67
7516.52	336528.20	17.00	3364.78	109.15	147.86	24866.56	121.14	256.72	33.31	19.76	213.10	27.23	150.99	14.49
7516.59	315814.80	17.20	3274.13	108.11	142.18	22920.65	117.35	248.88	31.31	18.21	227.84	28.79	148.85	12.66

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7516.65	298331.60	17.40	1928.15	84.43	146.40	18075.35	94.21	95.54	25.12	14.66	238.64	32.34	118.99	9.48
7516.72	299872.40	17.40	1364.05	61.91	154.73	14371.10	74.63	70.15	20.95	11.61	348.48	37.98	91.85	6.79
7516.78	308444.60	17.40	1060.06	51.29	164.04	11068.10	59.05	32.22	16.46	8.38	341.29	40.11	69.63	3.93
7516.85	308665.80	17.40	435.26	33.63	183.96	7284.74	40.71	11.70	9.81	4.99	442.41	46.03	47.76	1.31
7516.92	312771.60	17.20	-177.07	17.03	205.19	4105.29	22.96	6.83	5.39	2.92	508.86	48.40	24.36	0.32
7516.98	332255.40	17.00	-450.98	13.24	223.02	5887.86	22.46	7.08	5.30	2.99	626.98	47.85	26.51	-0.02
7517.05	331437.80	17.00	-876.55	16.85	212.31	6987.64	24.83	8.80	5.57	3.20	686.66	42.38	31.11	1.21
7517.11	323620.20	17.00	-868.08	12.34	226.93	7192.60	24.45	9.57	6.34	3.56	680.16	39.23	30.59	1.27
7517.18	298481.00	17.20	-633.94	11.42	226.02	6965.44	24.75	10.82	6.89	3.80	567.29	33.05	26.92	2.13
7517.24	293598.40	17.40	-561.10	11.88	230.24	6162.03	17.56	10.93	6.23	3.30	487.92	27.67	21.57	1.48
7517.31	225024.00	18.00	2136.31	29.77	205.53	3620.92	13.07	14.19	6.82	3.45	331.07	19.49	13.76	3.08
7517.38	221799.60	18.00	3689.48	30.14	219.07	2366.40	12.12	13.03	5.58	3.61	144.24	17.40	7.76	3.71
7517.44	215424.40	18.00	3706.53	31.63	216.73	2269.13	11.15	12.73	5.23	3.68	132.83	18.39	10.12	3.93
7517.51	228415.60	18.00	3642.18	29.07	217.00	2091.28	10.54	12.93	4.71	4.35	123.61	19.21	9.27	3.60
7517.57	225668.40	18.00	3665.78	23.62	223.59	2254.72	13.74	12.93	5.14	4.50	122.25	20.56	10.73	3.91
7517.64	267673.80	17.60	1209.57	9.93	257.81	2750.92	18.00	8.91	4.09	4.20	146.97	27.71	13.81	1.97
7517.70	254247.20	17.80	182.69	11.17	285.85	2943.97	19.37	8.77	4.97	4.08	144.80	29.00	16.16	0.98
7517.77	243826.00	18.00	206.69	12.92	311.43	3184.55	19.33	8.20	5.02	3.58	147.44	27.90	15.60	1.96
7517.83	232566.60	18.00	206.64	14.40	336.71	3262.23	18.96	7.79	5.44	2.84	151.30	27.71	17.12	2.41
7517.90	254430.20	17.80	212.16	16.84	353.91	3311.38	20.75	6.68	5.13	2.64	158.72	29.50	16.23	2.20
7517.97	277627.80	17.60	224.96	15.53	346.29	3587.71	23.46	7.69	5.97	3.06	161.09	29.37	18.08	2.01
7518.03	291732.20	17.40	208.98	13.10	318.93	3599.99	24.62	6.38	6.23	2.94	169.33	30.64	16.58	1.59
7518.10	308845.40	17.20	148.60	15.36	286.35	3675.46	26.04	6.55	7.47	3.48	220.06	34.31	17.09	1.10
7518.16	325471.20	17.00	111.27	18.75	244.28	3931.00	26.71	5.75	6.43	3.83	251.46	36.46	18.84	1.33
7518.23	303468.20	17.20	99.87	22.80	198.23	4745.48	28.76	7.81	9.00	4.68	276.97	42.16	28.35	2.65
7518.29	302607.80	17.20	585.11	41.82	174.27	8108.09	50.06	9.08	14.13	8.20	293.17	43.70	58.19	5.84
7518.36	292541.40	17.40	1016.97	60.93	155.55	11520.84	70.13	11.41	17.83	11.78	300.03	42.78	88.41	7.39
7518.43	299801.60	17.40	1258.24	91.73	148.44	16821.02	92.81	13.59	23.06	14.61	347.29	40.38	113.09	8.88
7518.49	302413.40	17.40	1536.37	102.34	139.23	19320.57	110.86	15.06	28.65	17.48	339.71	37.87	136.62	10.97
7518.56	309617.00	17.40	1794.13	112.28	135.87	21228.80	127.01	15.65	29.04	19.83	322.50	31.64	152.33	12.07
7518.62	324483.00	17.20	1350.07	117.06	144.89	24450.95	123.30	16.84	30.66	19.79	428.06	32.89	143.48	10.97
7518.69	344963.40	17.00	1164.13	114.55	159.01	23418.75	116.49	17.41	29.26	18.83	454.64	39.22	134.33	10.93
7518.75	341144.00	17.00	1361.60	100.03	160.51	21381.97	114.22	19.10	27.71	19.08	368.10	41.34	134.45	11.08

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7518.82	339252.00	17.00	1383.95	99.87	178.65	21022.93	109.44	25.17	26.14	18.72	362.64	46.83	129.24	10.34
7518.88	364811.00	16.60	1236.51	89.61	195.61	19790.60	100.32	82.05	25.17	17.48	376.54	53.95	115.78	7.85
7518.95	356826.20	16.80	1224.30	68.47	191.94	13824.00	86.20	238.28	18.04	14.56	271.57	54.53	100.21	7.09
7519.02	365307.00	16.60	1041.25	55.91	188.70	12571.60	79.27	606.75	15.74	13.38	261.82	53.01	88.81	6.58
7519.08	373977.20	16.60	852.63	49.21	194.80	10988.74	74.48	622.36	435.57	13.55	236.62	113.92	73.99	23.51
7519.15	382667.40	16.60	917.96	48.72	187.81	11385.58	85.15	929.55	435.62	13.48	235.93	111.64	77.20	23.47
7519.21	372891.60	16.80	1279.28	64.88	170.76	13639.61	102.44	1813.59	437.91	15.66	204.51	103.25	93.17	25.39
7519.28	362019.80	16.80	1662.43	78.19	155.27	16406.09	119.77	1771.94	443.33	18.63	179.81	98.11	113.81	26.92
7519.34	349944.40	17.00	2123.02	93.93	141.07	18530.87	131.15	1448.26	446.31	20.47	144.53	91.11	131.40	29.53
7519.41	337089.80	17.00	2390.70	100.85	121.13	19565.74	134.27	1533.59	25.49	20.16	156.24	27.85	150.23	13.00
7519.48	337860.00	17.00	2604.88	107.69	120.29	20794.02	132.24	1294.84	27.64	21.87	132.79	24.07	159.00	12.87
7519.54	332568.60	17.00	2744.16	111.26	123.21	21236.13	135.04	418.69	28.66	22.11	129.83	24.56	168.18	14.45
7519.61	327496.60	17.00	2971.94	122.50	127.16	21017.95	126.20	302.57	27.68	20.79	128.95	25.10	172.06	14.70
7519.67	323603.40	17.00	3094.29	129.03	135.45	21799.06	123.12	257.29	28.34	20.50	129.45	26.42	175.28	13.90
7519.74	327029.00	17.00	3232.54	134.69	140.24	24875.99	125.57	156.08	30.90	19.98	124.89	26.06	174.32	14.23
7519.80	327511.60	17.00	3370.25	143.19	143.15	25935.83	124.24	81.68	30.29	17.34	122.09	27.22	174.34	16.27
7519.87	335276.20	17.00	3508.88	148.57	157.55	27455.58	120.54	18.10	30.81	16.05	123.54	29.57	171.11	16.25
7519.93	337735.20	17.00	3639.14	150.00	160.62	28040.42	128.12	18.71	29.69	15.22	124.60	30.54	171.55	16.54
7520.00	334483.00	17.00	3719.50	152.43	159.29	29652.85	135.20	19.05	29.78	14.34	128.55	31.14	174.66	17.99
7520.07	326601.40	17.00	3873.73	159.86	154.29	26607.69	131.76	16.88	26.14	13.15	130.81	32.04	180.03	17.08
7520.13	307363.00	17.20	3695.33	147.88	136.10	23953.32	125.65	18.95	23.58	13.07	132.17	31.36	180.13	16.65
7520.20	290337.20	17.20	3605.57	143.63	131.95	23729.94	127.07	17.44	20.81	13.04	132.48	30.17	179.63	16.74
7520.26	277407.20	17.40	3544.44	142.67	133.95	23932.06	129.91	15.64	19.84	13.10	133.73	30.21	181.02	16.88
7520.33	264227.40	17.60	3499.07	141.88	137.18	21988.72	127.34	16.90	17.67	12.58	131.33	30.34	178.66	16.93
7520.39	211027.20	18.20	4468.72	120.27	139.67	18500.74	115.74	27.02	20.83	9.29	109.78	26.98	140.19	17.68
7520.46	215626.40	18.20	4699.23	128.17	148.17	19177.14	122.99	27.05	20.18	8.79	109.55	27.04	140.36	16.89
7520.52	220490.60	18.20	4811.29	132.93	140.44	18361.10	124.12	28.38	19.80	7.87	108.76	28.56	140.60	15.85
7520.59	235270.80	18.00	4823.61	132.89	145.36	19921.59	125.72	44.57	20.79	8.84	107.45	28.50	139.09	16.13
7520.66	250389.40	17.80	4882.10	136.76	144.82	20680.13	127.98	43.07	20.74	9.29	107.68	27.52	141.05	15.73
7520.72	323803.60	17.00	3858.87	157.45	159.23	30927.28	146.16	36.15	20.32	12.90	130.67	32.06	179.01	16.18
7520.79	326283.20	16.80	3920.68	159.86	166.43	31271.28	142.58	35.27	20.36	12.82	132.63	32.05	177.96	16.55
7520.85	327098.00	16.80	3850.83	157.58	172.79	31489.90	142.85	35.39	21.11	12.64	133.98	30.99	177.66	16.71
7520.92	338671.40	16.80	3796.08	157.80	179.98	32914.32	145.92	23.47	21.01	11.93	142.70	32.46	177.75	17.75

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7520.98	351791.40	16.80	3757.78	160.71	181.73	34445.49	150.41	38.75	21.98	12.00	144.70	34.38	174.78	18.32
7521.05	336401.60	17.00	3711.55	159.80	171.96	28216.06	147.32	36.92	18.65	12.06	142.69	34.88	172.48	18.14
7521.12	346028.20	17.00	3596.06	158.05	171.29	29508.16	153.89	38.41	21.00	14.46	143.57	35.30	175.22	17.62
7521.18	354653.40	17.00	3581.54	151.72	166.52	31832.51	148.19	38.15	25.06	15.53	142.82	32.43	175.89	18.37
7521.25	343187.40	17.00	3577.75	146.00	156.88	29907.67	146.49	39.85	26.28	16.75	134.04	30.39	181.66	16.29
7521.31	345733.00	16.80	3527.96	133.98	150.62	29384.80	143.15	29.75	29.17	18.09	132.91	30.74	188.83	14.97
7521.38	355521.60	16.80	3487.05	130.43	154.66	30677.28	147.04	58.66	32.12	19.48	136.79	29.91	193.30	14.19
7521.44	357816.40	16.80	8548.16	125.83	143.16	29379.11	141.64	63.44	30.98	18.18	135.69	28.48	195.69	14.98
7521.51	353882.80	16.80	8553.93	124.39	139.12	26652.64	135.50	61.86	26.85	18.38	138.48	31.26	195.72	14.85
7521.57	358299.60	16.80	8544.64	123.04	138.01	26128.62	131.90	58.98	26.19	17.47	143.94	32.48	193.01	14.80
7521.64	353597.80	17.00	8445.44	120.94	149.67	25594.19	133.21	54.78	24.18	17.53	148.72	31.07	191.89	14.76
7521.71	360747.20	16.80	8348.91	116.83	149.17	26196.75	140.78	28.80	23.59	17.93	153.74	30.33	192.35	15.10
7521.77	374084.20	16.60	2810.25	105.69	178.03	25015.06	132.67	20.33	22.31	16.49	220.68	40.41	168.75	12.53
7521.84	375461.00	16.60	2288.57	90.87	180.68	22429.06	129.30	20.71	20.28	14.53	280.77	47.63	154.77	10.97
7521.90	379564.80	16.60	2122.93	84.54	189.06	21064.63	131.83	56.38	18.77	13.94	317.17	51.45	151.47	11.73
7521.97	369664.20	16.60	2158.80	86.30	171.69	18163.13	120.18	55.54	16.71	11.89	333.23	53.54	151.61	11.35
7522.03	360415.20	16.80	2235.18	85.51	167.41	15685.42	104.65	51.31	15.52	10.18	345.58	56.33	151.01	11.39
7522.10	355800.20	16.80	2591.54	96.42	154.20	17748.92	118.28	64.94	17.23	12.00	302.02	49.75	174.40	12.81
7522.17	361885.00	16.80	3044.13	118.16	157.38	19954.00	142.66	234.58	20.26	14.50	244.10	42.54	194.01	13.73
7522.23	355114.40	16.80	3195.29	124.32	147.18	19507.43	139.07	201.68	20.77	14.61	212.76	38.01	200.20	14.05
7522.30	359107.00	16.80	3221.56	130.12	149.82	20504.01	149.89	205.84	21.85	15.41	198.32	36.26	199.24	14.84
7522.36	353833.00	16.80	3295.97	128.83	150.44	20427.37	153.25	230.00	21.04	15.50	192.11	34.71	199.61	15.81
7522.43	341172.20	17.00	5945.67	127.96	146.78	18808.69	141.47	223.85	19.37	13.92	182.28	31.89	193.02	15.91
7522.49	329229.20	17.00	6023.09	121.15	147.88	17241.27	116.85	56.87	17.68	11.61	191.65	32.09	187.32	16.23
7522.56	320158.00	17.00	6034.26	117.48	141.53	15746.18	105.15	52.57	16.35	10.63	199.25	32.60	182.45	16.92
7522.62	313650.40	17.00	6111.30	109.52	145.20	14214.56	94.73	48.91	13.85	9.01	207.92	34.25	181.82	16.67
7522.69	319166.20	17.00	6077.34	106.05	161.02	15452.40	90.54	50.97	13.12	8.66	223.56	34.24	178.02	15.58
7522.76	311278.80	17.00	3524.38	103.42	160.58	14858.99	92.21	46.36	12.94	8.66	226.06	35.78	182.38	16.43
7522.82	296862.60	17.20	3517.76	101.58	149.02	13416.19	88.75	45.79	11.44	7.83	228.57	34.83	181.35	16.83
7522.89	288451.40	17.40	3663.24	104.01	150.63	13213.31	83.92	46.60	10.83	6.89	223.27	34.46	180.77	16.11
7522.95	277644.40	17.60	3676.22	103.28	148.50	12784.10	75.32	52.77	12.24	6.58	226.65	34.52	181.46	16.83
7523.02	264141.80	17.60	3601.48	100.67	143.04	9870.59	61.32	35.34	11.18	5.20	229.72	36.49	179.03	16.87
7523.08	281165.80	17.60	3168.14	87.79	173.90	8464.61	46.93	32.93	9.45	3.87	276.81	42.44	166.38	14.80

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7523.15	306622.80	17.40	2595.50	71.32	216.40	8248.57	38.44	40.96	8.93	3.25	326.89	49.01	150.22	12.23
7523.22	328455.00	17.20	1596.15	47.13	206.99	7344.92	32.23	36.77	8.44	2.92	403.88	45.74	119.03	10.23
7523.28	351750.60	17.00	689.83	29.05	197.44	7540.14	25.19	28.57	8.62	2.48	495.96	40.03	89.71	6.96
7523.35	299810.20	17.60	1011.39	23.06	173.44	5834.65	21.79	26.87	7.67	2.42	440.40	29.93	60.33	4.52
7523.41	294957.80	17.60	2415.18	19.01	142.97	5121.05	24.38	27.20	7.16	2.67	385.60	21.54	41.40	3.43
7523.48	289829.00	17.60	2352.86	13.54	112.85	4159.73	22.90	15.47	6.30	2.43	341.25	14.68	27.74	2.84
7523.54	288008.20	17.60	2657.09	20.12	146.84	4089.76	22.09	19.32	5.33	2.10	271.95	21.98	32.44	1.47
7523.61	272150.40	17.80	3200.13	26.16	174.07	3701.78	25.91	22.74	2.93	1.91	200.48	30.32	48.26	3.10
7523.67	320758.00	17.40	2741.49	26.98	199.43	5659.30	31.97	27.22	3.90	1.43	251.27	40.17	72.29	4.04
7523.74	312916.40	17.40	1745.80	42.64	207.69	7797.62	39.20	68.71	6.51	1.53	271.50	45.07	102.99	6.35
7523.81	303121.40	17.40	1923.13	49.70	211.10	9254.63	47.24	450.24	7.61	1.71	314.27	50.26	121.18	8.36
7523.87	285518.60	17.60	2463.11	61.96	190.20	10294.80	56.83	458.03	8.58	1.93	314.54	47.67	148.93	11.90
7523.94	281837.40	17.60	2731.21	67.38	176.79	11236.68	64.58	461.79	11.10	2.05	301.45	45.59	160.71	12.98
7524.00	270327.00	17.60	2812.41	72.59	160.25	11175.75	69.94	467.40	10.99	2.37	299.13	44.51	170.32	14.75
7524.07	262943.80	17.80	2930.99	77.78	153.87	10563.17	70.45	544.24	10.37	1.98	294.62	43.60	171.45	15.80
7524.13	253311.40	18.00	3198.09	86.89	146.59	10158.75	69.36	177.87	9.21	1.91	270.61	41.92	184.97	16.58
7524.20	270268.60	17.80	2976.05	82.77	164.30	9901.47	66.45	238.34	8.66	1.83	309.72	48.28	179.29	13.74
7524.27	278652.80	17.60	2776.39	83.55	173.56	9837.55	62.97	236.66	6.93	2.09	319.77	50.11	170.89	13.31
7524.33	296503.00	17.40	3033.29	89.10	189.16	10724.05	64.73	253.94	7.50	2.06	319.59	49.56	168.35	13.17
7524.40	247085.20	17.80	3557.03	65.49	166.49	8628.84	68.17	146.23	13.19	0.36	272.97	45.63	129.64	13.84
7524.46	246990.20	17.80	6687.87	69.22	164.13	9415.33	70.31	142.58	15.03	0.35	252.68	42.68	126.49	13.97
7524.53	223119.80	18.00	6967.76	76.29	146.71	9782.32	72.08	80.45	15.99	0.45	214.13	35.98	129.69	16.59
7524.59	214728.80	18.20	7274.97	83.76	134.68	9320.62	72.86	78.59	16.42	0.23	197.44	31.58	137.95	17.04
7524.66	205009.80	18.40	7139.76	81.48	121.65	8339.97	64.64	46.20	15.56	-0.41	201.52	31.87	138.08	17.71
7524.72	258076.20	17.80	6469.66	100.64	145.33	10813.98	57.49	52.85	9.46	1.35	262.43	36.63	175.04	16.48
7524.79	274047.00	17.60	3199.55	92.68	158.76	10222.86	50.59	57.18	8.41	1.20	329.28	42.51	175.67	15.48
7524.86	295467.60	17.40	3069.85	87.76	173.56	11584.62	49.19	55.80	8.98	1.18	361.71	45.51	179.68	14.98
7524.92	309757.80	17.20	2828.28	78.77	180.00	14580.51	48.70	141.15	12.73	1.84	416.95	52.32	176.48	14.77
7524.99	334450.60	17.00	2412.10	72.50	210.92	15130.60	49.34	148.89	13.68	2.42	492.48	58.83	163.94	12.43
7525.05	347738.80	17.00	2441.07	80.93	204.21	17890.21	69.30	147.99	15.67	3.61	490.23	57.26	169.53	13.20
7525.12	349834.60	17.00	2551.32	96.46	196.54	20244.46	86.52	135.25	17.68	5.08	482.77	56.66	175.68	13.14
7525.18	354836.40	17.00	1957.87	96.50	198.63	19934.44	83.91	129.70	16.84	5.59	645.47	74.93	162.61	11.54
7525.25	359978.40	17.00	1927.06	107.03	192.96	22747.57	100.11	47.13	20.56	7.77	578.62	68.56	162.97	11.51

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7525.31	362261.20	16.80	2049.71	122.27	157.96	27880.52	117.08	42.33	28.33	10.53	480.48	61.84	168.50	13.51
7525.38	361004.00	16.80	1760.25	118.12	147.70	29232.66	112.81	58.31	34.21	12.53	445.96	59.05	157.54	12.43
7525.45	354672.40	16.80	1676.55	112.23	133.22	32051.46	115.98	96.92	39.96	15.20	365.89	53.17	147.72	13.95
7525.51	353059.80	16.80	4400.27	120.37	109.30	34078.72	130.54	182.94	45.35	18.24	151.12	29.80	151.48	15.12
7525.58	350266.60	16.80	4246.68	116.81	103.13	31976.88	126.22	250.88	43.36	18.56	143.01	30.03	148.36	14.26
7525.64	347816.40	17.00	4170.98	110.57	100.18	29801.80	121.46	323.94	40.88	18.33	136.88	27.20	145.31	12.97
7525.71	348443.20	17.00	4080.26	104.68	103.62	28809.11	114.99	488.15	40.03	17.85	134.46	25.70	138.63	13.16
7525.77	339697.80	17.20	3832.79	99.91	101.71	26793.45	111.74	782.58	38.47	16.77	131.46	24.98	128.96	12.50
7525.84	332010.00	17.20	1259.31	90.11	102.54	25588.22	107.83	762.37	37.42	14.97	142.18	27.91	122.59	11.60
7525.91	336515.60	17.20	1252.55	86.68	98.81	24708.81	101.43	720.68	35.93	13.66	147.51	27.59	116.81	11.42
7525.97	325014.40	17.20	1329.94	84.00	104.47	24347.66	98.43	665.47	34.53	12.91	151.14	29.11	114.63	11.80
7526.04	326525.60	17.20	1412.43	83.71	102.79	24039.48	96.46	500.82	32.97	12.48	150.89	30.64	117.37	10.87
7526.10	344045.60	17.00	1519.00	85.51	104.54	24086.09	95.59	205.57	32.69	11.63	159.36	30.81	121.95	10.49
7526.17	346028.80	17.00	1663.97	89.13	106.85	25138.51	95.31	196.38	32.45	12.09	153.61	28.88	120.12	10.80
7526.23	347401.40	17.00	1691.64	87.16	108.80	25221.90	96.75	264.43	32.47	11.98	156.05	29.10	122.72	11.40
7526.30	353455.20	17.00	1662.66	82.12	106.20	24869.42	95.09	406.80	31.99	11.71	158.24	28.53	124.34	11.44
7526.36	354217.60	17.00	1631.52	76.22	107.03	25241.46	97.97	450.29	32.54	11.83	158.13	27.58	121.12	12.05
7526.43	361134.40	16.80	10744.40	70.86	108.12	24857.92	95.55	464.07	30.98	11.80	152.29	27.43	117.26	11.71
7526.50	363861.20	16.80	10788.72	70.43	107.42	24026.64	92.89	430.13	30.28	11.36	152.52	26.48	119.36	11.94
7526.56	357079.40	16.80	10870.48	74.80	111.67	24038.30	91.70	352.20	30.39	10.81	142.59	25.86	117.22	11.35
7526.63	358077.40	16.80	10950.43	81.17	111.15	24277.18	94.99	235.19	30.81	10.97	137.18	27.07	115.87	11.22
7526.69	354612.40	16.80	11047.53	86.88	113.35	23708.63	93.35	202.11	28.11	10.71	141.91	29.30	118.39	11.73
7526.76	346660.20	17.00	2068.60	89.79	121.22	24803.19	91.88	201.17	28.81	10.89	146.34	29.41	119.96	11.32
7526.82	345340.20	17.00	2126.97	89.75	123.09	25553.20	91.03	194.00	29.06	10.84	155.05	31.28	119.79	12.82
7526.89	339714.60	17.00	2081.53	87.04	120.27	25084.10	88.22	189.36	28.49	11.72	171.46	31.76	119.37	14.59
7526.96	329395.00	17.00	2055.41	78.78	124.47	24549.34	81.92	153.37	26.44	11.68	186.33	33.35	120.28	15.29
7527.02	318258.20	17.00	2008.43	72.80	124.14	22849.89	73.84	121.31	25.37	10.27	195.15	36.17	114.47	14.17
7527.09	309815.60	17.00	2046.72	71.74	123.48	22094.16	66.79	75.75	23.83	9.59	204.69	39.22	116.61	14.62
7527.15	300217.60	17.20	2096.37	69.39	131.09	21182.98	62.89	83.76	22.96	9.22	201.32	40.75	115.93	13.91
7527.22	289737.00	17.40	2177.28	69.27	134.25	21157.77	61.51	96.23	22.58	8.05	198.87	43.97	114.38	12.51
7527.28	288231.80	17.40	2269.13	71.41	140.63	21223.86	59.92	112.54	22.95	7.88	192.29	43.87	113.55	12.58
7527.35	284540.60	17.60	2381.92	75.72	148.64	22386.34	59.31	107.69	23.91	8.78	187.00	42.65	114.12	13.09
7527.41	274738.20	17.80	2585.32	78.05	147.83	22059.13	62.23	102.10	24.96	8.96	179.69	41.09	112.76	12.36

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7527.48	225187.40	18.20	3168.20	61.16	121.08	18210.40	64.33	83.63	21.88	10.20	146.43	31.16	94.14	10.92
7527.55	230518.60	18.00	3275.26	63.09	121.47	18743.74	65.09	53.56	22.91	11.22	139.40	27.33	96.56	11.19
7527.61	226857.00	18.20	3272.43	67.29	112.33	18934.66	62.93	25.14	23.12	10.96	135.10	24.94	99.32	11.02
7527.68	232256.20	18.00	3357.14	72.82	104.61	20613.43	72.89	21.18	26.17	11.05	122.20	21.84	108.20	12.45
7527.74	235657.00	18.00	3391.51	76.41	105.37	23266.95	82.29	22.01	28.94	10.83	113.76	19.39	109.37	12.82
7527.81	305760.60	17.40	3006.32	96.67	125.13	30521.95	90.13	18.15	38.00	10.22	135.67	25.51	133.90	13.67
7527.87	325592.80	17.40	3195.16	98.63	125.30	34356.26	95.25	19.07	42.38	10.10	132.09	24.45	136.78	12.82
7527.94	333159.20	17.20	3351.18	99.23	125.33	35567.53	102.68	19.79	45.77	10.37	131.28	24.14	139.92	12.47
7528.01	334959.20	17.20	3423.24	93.66	129.68	36401.46	99.84	20.07	47.33	10.14	141.07	24.88	138.34	11.64
7528.07	346788.40	17.00	3318.61	89.06	129.09	35598.94	95.36	18.93	48.39	10.30	149.47	27.03	139.10	12.47
7528.14	328176.00	17.00	3244.93	88.76	123.06	33144.17	87.84	17.36	44.25	9.92	159.23	29.55	140.98	12.20
7528.20	309262.00	17.00	3067.80	86.50	120.98	30028.85	84.99	17.09	39.19	9.19	166.47	32.02	140.93	13.41
7528.27	306562.00	17.00	2901.83	81.04	124.58	31844.79	84.52	16.16	39.65	9.39	167.22	33.12	135.41	13.94
7528.33	297778.40	17.20	2848.76	81.65	121.11	30544.37	82.87	15.68	35.69	9.16	167.11	33.65	132.80	13.69
7528.40	278591.00	17.40	2847.88	85.01	117.44	30245.71	80.07	15.50	31.87	9.11	161.88	34.65	131.30	13.04
7528.46	267684.20	17.60	4006.82	88.14	118.75	31366.07	83.76	17.26	32.39	9.51	155.55	32.61	130.82	12.97
7528.53	253857.40	17.80	4052.41	86.28	123.30	32369.41	84.46	18.79	33.96	9.74	149.56	30.16	128.16	11.50
7528.60	235162.80	18.00	4020.99	87.23	122.21	32062.80	83.03	20.65	32.33	9.60	150.95	28.07	125.99	10.78
7528.66	245286.40	17.80	4040.46	89.55	118.85	32649.97	102.85	32.94	30.20	14.65	149.04	48.08	104.23	36.57
7528.73	258965.20	17.60	4032.54	87.47	120.95	33506.15	108.78	33.05	31.34	14.79	148.74	45.67	103.40	36.49
7528.79	272376.40	17.40	2966.62	88.57	123.51	33122.78	108.75	31.96	30.98	14.30	146.71	46.51	101.86	37.57
7528.86	294502.80	17.20	2346.65	73.51	111.95	34953.26	104.42	30.37	30.08	14.41	304.30	46.35	101.63	37.95
7528.92	344748.40	16.80	749.03	8.30	65.53	31657.66	83.12	22.37	24.12	10.80	891.19	40.98	87.33	36.43
7528.99	361492.00	16.60	589.59	6.86	64.57	30367.45	61.90	9.78	25.58	5.64	921.76	20.72	116.12	10.35
7529.06	369581.20	16.60	-467.81	-6.78	48.44	27182.40	58.13	16.48	20.09	7.91	915.36	203.42	97.65	28.06
7529.12	370559.40	16.60	-721.44	-11.40	48.54	24863.41	52.73	15.85	16.77	7.17	927.82	203.70	92.50	27.13
7529.19	363414.00	16.60	-569.33	4.16	50.51	20260.94	51.93	14.65	15.37	6.72	809.14	204.80	92.01	27.94
7529.25	333015.20	16.80	1070.85	71.85	94.19	20751.33	72.66	20.12	19.59	9.47	229.39	211.47	107.70	29.46
7529.32	311740.60	17.00	1117.77	76.63	94.62	20481.39	71.75	18.99	19.04	9.39	219.33	211.87	101.99	30.57
7529.38	298802.60	17.00	2084.12	89.47	105.78	21040.27	69.45	12.56	22.27	6.58	233.50	29.92	120.71	13.02
7529.45	288980.00	17.20	3562.27	92.55	100.42	22855.97	76.81	13.85	23.80	7.34	225.91	29.80	124.52	14.15
7529.51	266698.40	17.40	3914.35	97.23	99.64	24266.13	77.98	17.94	23.59	7.28	195.07	28.38	125.90	14.80
7529.58	298364.00	17.20	3428.78	99.81	107.77	48279.76	77.18	19.80	28.84	7.65	302.02	26.23	120.10	15.92

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7529.65	289353.60	17.40	3335.29	94.29	110.77	47997.89	78.77	20.30	28.93	8.18	293.58	25.95	119.65	14.98
7529.71	280817.80	17.60	3044.73	92.64	111.75	48023.08	74.64	18.58	28.08	7.27	367.45	23.88	114.98	14.32
7529.78	270646.00	17.60	1501.83	86.16	113.07	46422.79	66.76	16.07	27.47	6.81	386.99	23.65	111.76	13.61
7529.84	273084.40	17.60	1354.65	93.28	126.02	45248.38	69.46	14.79	27.95	6.50	436.11	26.74	109.49	12.66
7529.91	214459.40	18.20	1502.65	108.11	130.00	20599.24	70.04	13.46	22.29	6.74	408.87	30.18	114.40	11.69
7529.97	201716.20	18.20	922.16	129.50	137.94	19280.34	65.73	13.67	21.20	5.88	558.07	30.58	107.69	10.85
7530.04	194351.80	18.20	1149.68	134.63	140.37	18585.44	67.57	14.39	21.73	6.14	505.91	32.45	113.88	12.28
7530.10	194248.40	18.20	1253.05	141.64	141.96	19454.58	70.22	16.59	22.71	6.33	497.56	30.34	116.78	11.92
7530.17	206105.40	18.20	212.03	109.48	120.40	27607.18	54.34	20.25	20.38	5.05	839.29	26.98	116.56	8.93
7530.24	211296.20	18.00	476.76	87.45	105.23	27456.97	49.47	20.03	20.25	4.21	768.31	24.58	116.55	8.03
7530.30	209001.60	18.00	1023.44	61.52	96.23	27569.59	49.51	21.00	20.85	3.74	623.33	23.30	115.52	8.26
7530.37	214012.00	18.00	1066.46	61.13	95.18	27689.17	48.61	22.12	21.75	3.94	608.37	23.29	111.36	7.13
7530.43	191441.80	18.20	748.65	66.39	112.08	27768.14	59.19	37.06	22.47	6.48	589.47	94.60	92.70	24.38
7530.50	187195.20	18.20	1844.69	85.83	126.77	19544.20	69.37	32.18	25.36	7.95	205.63	94.67	90.80	27.16
7530.56	173658.00	18.40	1802.43	96.76	136.52	19681.97	71.16	33.70	24.96	8.17	241.60	93.96	87.85	27.94
7530.63	144370.20	18.80	2330.46	108.02	135.09	16480.20	76.18	37.12	20.38	7.65	213.06	91.18	73.03	27.08
7530.70	149544.80	18.80	1883.47	98.70	127.24	17528.68	69.02	35.21	18.34	7.18	279.94	91.67	72.81	26.76
7530.76	163928.20	18.80	1965.63	85.63	117.93	15936.95	54.20	18.47	15.28	3.83	322.41	26.07	81.95	7.83
7530.83	177278.80	18.60	849.69	63.55	115.29	22027.81	49.35	15.74	12.49	2.84	697.32	29.92	70.83	5.61
7530.89	182110.80	18.60	718.73	47.36	116.20	20076.78	46.94	14.31	10.26	2.62	656.09	35.52	61.71	4.26
7530.96	222044.40	18.20	-266.30	37.07	122.29	22495.94	37.49	8.41	13.87	3.72	810.87	46.32	72.37	5.12
7531.02	220969.20	18.20	-102.70	36.13	141.03	19424.89	35.49	7.86	12.81	3.79	744.56	50.77	62.10	4.10
7531.09	234642.00	18.00	-46.62	34.53	140.14	18749.14	32.45	7.84	13.32	3.64	718.91	50.49	59.51	5.88
7531.15	214354.20	18.20	988.56	49.61	142.69	11699.90	37.29	9.89	14.38	4.49	340.11	49.03	69.56	7.50
7531.22	248873.00	17.80	1202.04	58.71	141.20	13477.27	42.16	10.77	17.35	4.77	343.22	47.09	81.91	8.69
7531.29	272362.00	17.60	1777.77	57.01	139.70	15139.79	47.93	11.84	18.71	4.89	211.67	41.14	91.10	9.07
7531.35	293439.20	17.40	2016.98	60.96	131.55	17368.37	58.52	15.72	20.99	5.54	216.42	38.59	103.59	10.45
7531.42	315644.00	17.20	2208.68	60.23	125.07	19411.75	68.34	15.88	21.94	6.66	215.93	34.55	115.47	11.33
7531.48	373917.40	16.60	1747.06	48.73	117.98	32445.16	69.97	19.39	25.16	6.41	334.20	33.64	112.83	12.07
7531.55	381678.80	16.60	6896.40	48.46	114.80	32909.35	67.07	23.96	24.33	6.15	328.99	32.82	116.64	13.12
7531.61	380112.80	16.60	6901.24	52.01	112.93	32882.89	67.79	24.23	23.43	5.97	328.73	33.10	118.48	13.74
7531.68	376661.40	16.60	6971.02	53.98	115.54	33048.49	67.46	21.96	23.46	5.96	324.74	32.13	117.77	13.94
7531.75	373759.20	16.60	6947.39	58.25	120.39	32926.38	64.49	22.38	23.36	5.59	327.43	34.15	115.04	13.09

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7531.81	337033.40	17.00	7485.66	74.04	126.26	21077.01	68.59	23.38	20.74	6.07	214.66	36.17	121.06	12.80
7531.88	336462.40	17.00	2274.35	71.30	127.97	21249.98	72.38	18.76	20.72	6.65	221.30	35.93	117.22	11.34
7531.94	343906.00	17.00	2234.21	71.87	136.45	21458.87	75.13	20.11	22.56	7.13	225.22	37.94	115.20	11.13
7532.01	342897.80	17.00	2025.73	68.92	130.11	20926.24	75.04	19.95	22.80	7.33	229.91	38.33	116.16	10.54
7532.07	346952.60	17.00	2046.78	68.90	132.41	20947.45	77.78	20.22	22.77	7.30	234.34	40.31	115.06	10.52
7532.14	346850.60	17.00	1960.01	65.06	136.20	20974.91	77.64	17.48	23.53	7.44	238.26	41.15	114.01	10.78
7532.20	333252.00	17.00	1794.83	60.26	134.01	19905.91	75.39	16.97	22.84	7.13	246.01	42.26	111.92	11.04
7532.27	319622.20	17.00	1818.64	59.51	126.88	20059.23	74.88	16.32	21.77	7.34	243.17	40.75	111.89	10.87
7532.34	329567.60	17.00	1951.06	63.53	133.20	20829.41	75.81	17.23	22.58	7.71	245.55	43.14	110.49	12.26
7532.40	333378.40	17.00	1900.57	64.52	132.18	21068.68	73.23	17.02	23.29	7.95	249.96	41.74	111.68	12.78
7532.47	346323.00	17.00	2071.53	71.24	134.39	21563.56	73.18	24.12	23.44	8.26	245.22	40.92	111.67	12.63
7532.53	359274.40	17.00	3073.63	80.37	131.63	22960.18	75.89	61.34	25.42	8.08	228.64	41.15	116.29	12.19
7532.60	367305.40	17.00	3041.87	81.53	129.91	23363.93	78.97	91.32	27.47	8.42	227.13	39.39	114.62	12.17
7532.66	364458.40	17.00	3051.44	82.55	135.38	23608.84	83.13	158.16	27.79	8.25	229.05	39.22	114.88	12.52
7532.73	359112.00	17.00	3005.64	81.41	139.87	22927.97	84.54	162.80	26.59	8.11	227.80	43.01	109.78	11.08
7532.80	357448.00	17.00	2700.28	72.67	145.24	20750.95	76.00	157.19	23.77	7.09	235.36	52.27	98.47	10.05
7532.86	361993.60	16.80	1676.79	63.59	157.43	19521.05	69.39	130.94	22.06	6.77	252.88	61.56	86.70	9.61
7532.93	362654.20	16.80	1508.98	59.44	167.74	17986.22	62.61	130.88	19.53	5.51	267.63	72.60	81.42	8.02
7532.99	357139.00	16.80	1358.55	51.78	167.08	16462.14	54.20	86.61	17.26	4.90	269.13	78.94	75.46	6.14
7533.06	356607.20	16.80	1385.62	50.64	170.23	16563.71	52.88	95.85	18.08	5.09	267.49	79.47	79.35	5.52
7533.12	339986.00	17.00	1554.85	56.33	166.11	18532.96	61.38	119.10	20.54	5.73	265.59	72.71	88.79	6.12
7533.19	328437.40	17.20	1781.88	61.29	161.09	19102.78	67.96	124.77	21.64	6.40	256.38	65.42	96.16	7.42
7533.25	321068.80	17.20	1945.59	63.27	157.85	19797.31	68.94	106.69	22.38	6.82	253.09	57.46	102.10	9.37
7533.32	312388.60	17.20	2188.86	66.89	157.07	21238.92	71.93	83.80	23.38	7.46	244.94	52.30	105.97	10.17
7533.39	319803.80	17.20	2286.57	69.44	150.19	22166.53	73.95	85.63	24.08	7.88	241.64	49.52	106.69	11.97
7533.45	324792.00	17.00	2406.80	70.75	146.35	22126.86	71.88	72.06	24.55	7.68	241.53	49.21	108.77	11.36
7533.52	325318.00	17.00	2714.48	72.54	147.40	22429.17	69.56	65.05	25.60	7.90	245.38	46.80	107.64	11.41
7533.58	317303.20	17.20	2591.93	68.97	137.19	22247.74	70.43	65.56	25.46	8.31	230.98	42.14	108.33	10.98
7533.65	304262.60	17.40	2350.90	63.43	120.14	21194.70	68.75	68.64	25.76	7.88	219.96	36.42	109.48	11.40
7533.71	235103.60	18.00	2971.40	64.22	122.36	16514.83	67.58	55.65	19.77	5.86	175.42	25.07	94.77	11.25
7533.78	227587.20	18.20	3027.17	70.07	120.90	17058.56	83.23	53.71	17.26	9.61	152.93	43.96	76.78	34.41
7533.85	204753.80	18.40	2860.29	74.07	112.09	18458.85	84.65	44.45	17.24	9.85	129.66	41.14	78.72	34.58
7533.91	212317.40	18.20	3011.00	81.08	115.05	19827.08	89.11	32.16	19.08	9.99	117.34	39.81	80.43	33.86

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7533.98	227008.40	18.00	3222.10	91.81	121.91	21465.53	97.22	35.91	19.26	10.39	109.38	38.58	79.82	33.05
7534.04	280719.60	17.40	2557.54	93.25	114.85	26893.95	105.45	69.27	25.22	12.04	130.22	45.43	96.36	33.22
7534.11	306261.80	17.00	2663.49	91.72	117.16	28742.74	97.01	195.07	28.60	9.00	129.79	19.73	119.84	11.80
7534.17	329013.60	16.80	2722.56	88.35	120.35	28434.72	102.46	226.10	28.48	9.08	126.13	20.51	124.78	12.53
7534.24	309165.00	17.00	2593.86	84.71	114.92	27938.13	101.58	340.70	27.83	9.43	125.47	21.09	123.72	13.10
7534.30	315707.60	17.00	2538.00	80.90	117.11	27712.28	100.92	403.60	27.94	9.44	122.69	20.98	126.70	12.73
7534.37	313892.60	17.00	2677.01	79.67	114.28	27271.37	95.19	376.73	28.00	9.15	123.45	20.78	126.72	11.87
7534.44	302063.00	17.20	2579.40	74.52	109.35	25477.40	91.53	247.38	27.14	8.84	121.01	22.78	126.03	12.16
7534.50	290486.60	17.40	2147.77	68.67	100.00	23445.85	84.96	227.83	25.48	8.45	135.88	23.92	120.80	11.62
7534.57	252841.80	17.80	3296.72	50.96	91.34	18653.72	90.80	119.25	23.35	7.89	117.32	20.03	99.01	11.02
7534.63	236486.00	18.00	3317.58	43.37	77.31	17802.67	88.81	81.71	23.22	8.03	115.17	21.47	96.09	10.87
7534.70	233564.60	18.20	3097.33	42.33	69.34	17890.42	93.92	138.26	23.71	8.58	115.72	20.28	94.71	11.21
7534.76	239083.20	18.20	2941.99	45.56	64.59	18669.87	101.76	187.19	24.74	8.96	116.44	21.09	90.64	10.52
7534.83	254482.40	18.00	3235.85	54.36	67.03	20740.84	109.31	199.63	26.67	8.55	104.15	20.71	94.79	10.04
7534.90	297712.20	17.60	2240.89	71.62	77.06	25719.01	105.50	261.23	29.15	8.07	118.84	25.50	119.09	12.16
7534.96	301579.00	17.60	2222.27	74.55	83.92	25972.52	102.94	246.18	29.83	7.86	123.77	24.98	123.57	13.53
7535.03	309471.40	17.40	2366.20	75.46	90.88	25259.66	99.48	201.13	29.70	7.31	124.93	27.89	124.83	14.23
7535.09	306697.80	17.40	2487.95	76.00	90.43	24232.35	92.35	154.81	28.49	6.87	126.09	28.49	127.53	14.29
7535.16	312885.00	17.40	2529.05	75.53	94.54	23788.26	89.12	136.42	28.62	7.61	128.85	27.40	127.67	13.88
7535.22	340656.40	17.20	2493.88	80.62	89.99	23971.49	90.64	100.13	28.54	8.38	137.52	29.46	127.21	12.20
7535.29	348292.20	17.00	2298.69	76.52	87.26	23638.76	93.73	97.30	27.53	8.85	148.47	30.51	122.79	11.94
7535.35	362589.40	16.80	2171.85	71.62	83.90	27268.71	99.72	84.73	29.05	9.36	150.46	31.77	122.29	12.07
7535.42	363657.40	16.80	2080.95	70.76	88.12	28470.78	104.70	131.48	31.30	9.92	149.46	30.83	121.71	10.97
7535.49	355970.60	16.80	1924.96	68.31	86.02	28498.31	107.97	166.64	31.09	9.61	157.35	33.82	118.41	11.04
7535.55	345417.40	16.80	1880.02	63.99	91.92	28370.24	107.95	168.94	30.97	9.52	164.13	35.55	114.31	10.47
7535.62	355632.80	16.80	2011.84	73.14	96.47	28995.18	106.02	177.92	32.02	9.15	164.57	37.02	114.13	11.03
7535.68	349723.20	17.00	2185.07	79.25	95.43	25574.47	98.67	214.21	30.05	8.95	173.48	37.39	113.25	10.59
7535.75	349378.20	17.00	2231.00	81.97	93.62	24764.75	98.33	239.30	28.37	9.30	178.64	38.65	111.23	12.10
7535.81	340231.60	17.00	2219.34	82.71	88.09	24488.78	109.58	214.90	91.98	13.01	167.70	60.38	95.78	32.44
7535.88	348742.60	17.00	2258.32	85.84	88.73	25134.98	110.93	261.66	92.83	13.12	163.65	57.94	96.78	32.55
7535.94	345858.60	17.00	2291.27	84.32	88.59	25162.86	114.18	274.08	93.10	13.21	155.90	57.42	98.16	32.35
7536.01	344694.80	17.00	2129.71	78.35	90.17	25639.19	115.30	253.44	94.48	13.48	145.92	55.84	101.95	31.95
7536.08	330388.60	17.20	2041.53	76.21	88.22	25803.02	111.74	209.09	94.87	13.02	149.49	56.44	103.44	31.69

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7536.14	365591.40	17.00	2122.91	73.23	105.67	35009.98	97.60	231.71	32.84	9.33	152.47	32.11	117.88	11.13
7536.21	363552.20	17.00	2047.70	68.26	101.47	33854.40	92.09	174.81	32.84	9.26	156.28	32.33	118.65	12.10
7536.27	371845.20	16.80	2084.92	70.27	104.83	34470.29	107.88	154.51	53.60	13.86	154.71	62.56	103.66	32.19
7536.34	381581.80	16.60	2117.10	73.62	107.62	34982.59	112.86	186.97	53.72	14.23	159.07	62.38	101.18	31.93
7536.40	401012.40	16.40	2119.16	71.71	112.41	34665.68	115.00	188.43	54.44	14.15	157.03	60.40	100.42	32.08
7536.47	385087.60	16.40	2108.88	72.58	101.04	27167.35	119.17	196.54	53.98	14.63	161.10	61.45	102.08	32.61
7536.54	383549.00	16.40	2108.33	79.31	102.34	27856.36	123.87	219.14	54.48	14.92	156.88	61.86	102.69	31.88
7536.60	388037.40	16.40	2137.72	81.61	108.72	31040.60	113.33	364.48	36.29	11.36	161.53	31.25	117.07	10.83
7536.67	354404.40	16.80	2516.88	86.68	101.89	30332.72	120.79	330.03	82.47	15.13	157.74	49.30	100.28	31.86
7536.73	333826.80	17.00	2547.08	91.04	98.84	31176.51	127.33	326.05	82.76	15.86	160.55	53.19	101.52	31.08
7536.80	332127.80	17.20	2584.96	97.38	97.67	29962.03	127.60	321.84	83.43	15.51	158.41	53.69	105.10	30.26
7536.86	342405.40	17.00	2689.81	99.22	105.12	31824.88	125.42	314.08	84.03	15.61	156.37	54.55	104.86	31.02
7536.93	331451.80	17.20	2683.44	101.19	98.99	29043.65	125.78	185.98	82.58	14.92	155.48	58.17	110.08	31.50
7536.99	357773.80	17.00	2388.20	104.09	111.42	31406.74	119.53	220.24	38.20	11.25	158.72	42.19	126.59	10.44
7537.06	393141.80	16.60	2530.08	105.32	115.74	34741.24	115.01	213.13	40.21	11.35	155.06	40.53	129.16	10.99
7537.13	397280.40	16.40	2543.63	107.33	117.73	35767.20	119.86	203.42	41.60	11.77	155.18	41.13	131.13	11.90
7537.19	396000.60	16.40	2494.78	107.52	118.10	35654.90	125.92	228.28	42.68	12.25	159.69	41.84	133.78	11.80
7537.26	406938.20	16.20	2414.61	112.03	120.67	39606.91	131.93	384.19	48.97	12.86	167.22	41.27	131.45	12.61
7537.32	402246.80	16.20	2115.57	104.61	109.53	37499.41	135.18	420.40	56.91	13.58	165.78	38.58	134.83	13.44
7537.39	373333.00	16.40	1844.37	103.26	102.19	33580.62	138.21	485.49	62.12	14.04	161.04	36.28	131.26	13.97
7537.45	358778.40	16.60	1544.22	94.80	95.78	34443.27	136.71	550.89	68.83	14.98	158.20	35.36	126.58	14.20
7537.52	337569.00	16.80	1363.63	93.21	84.68	33262.68	142.72	658.47	72.06	15.66	156.43	35.12	125.63	14.27
7537.59	306201.80	17.20	1297.52	87.18	78.13	29367.47	137.45	571.35	68.99	15.99	139.95	32.24	125.12	11.89
7537.65	312384.20	17.20	5320.18	93.47	83.01	32233.35	138.46	618.16	63.63	16.23	134.80	33.20	124.11	10.97
7537.72	256105.80	17.80	6075.47	87.34	86.36	27011.05	122.98	525.46	57.69	13.86	117.13	32.05	98.37	10.59
7537.78	248182.40	17.80	6052.57	93.92	84.11	25829.03	124.26	609.44	49.94	13.87	114.38	30.78	98.65	10.16
7537.85	261286.00	17.80	6005.25	101.53	91.67	27291.16	122.61	816.23	47.72	13.84	105.53	29.93	98.54	9.64
7537.91	275216.00	17.60	5979.98	105.22	90.96	27495.39	125.79	806.82	45.76	13.93	106.52	31.05	99.71	11.02
7537.98	277822.20	17.60	2051.19	101.35	93.41	29901.67	127.09	760.66	46.01	14.81	108.41	32.31	98.12	11.69
7538.04	351773.00	16.80	1312.21	108.28	92.85	37177.44	144.43	954.56	47.39	17.56	129.74	35.33	123.09	12.16
7538.11	371827.40	16.60	1504.81	112.95	103.54	38735.74	149.67	854.91	49.43	17.36	131.13	36.54	125.65	12.38
7538.18	374357.80	16.60	1602.73	112.42	102.92	39313.00	151.93	575.93	49.85	16.78	136.09	38.18	126.41	11.14
7538.24	383745.40	16.60	1484.09	110.55	104.44	40286.31	157.80	605.60	50.52	17.58	148.06	40.03	126.87	10.98

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7538.31	354831.20	16.80	1485.30	110.46	103.56	35452.76	156.14	584.44	47.67	15.65	154.87	39.56	125.51	9.91
7538.37	333492.20	17.00	1489.97	108.59	105.37	33439.38	154.62	461.13	44.95	14.57	157.23	40.20	127.26	8.46
7538.44	320175.20	17.20	1592.57	101.95	102.69	31281.30	159.21	397.06	76.86	18.64	160.73	60.57	107.23	33.47
7538.50	310044.80	17.20	1758.20	98.70	101.59	28809.46	146.54	353.72	74.64	18.81	159.30	60.41	105.67	34.88
7538.57	312639.00	17.00	2027.78	95.82	102.83	28193.90	137.06	383.39	74.94	17.12	150.99	58.62	104.33	35.46
7538.64	341377.40	16.80	2184.15	96.69	102.02	28558.67	133.07	356.40	75.61	16.84	151.57	58.89	107.24	37.18
7538.70	356862.00	16.80	3211.78	94.26	96.17	28941.68	127.47	376.21	77.94	16.39	151.24	59.00	106.01	38.02
7538.77	361465.20	16.80	3141.91	91.37	93.51	30357.08	117.75	444.31	45.76	11.27	151.53	38.93	122.48	12.56
7538.83	373775.80	16.80	2948.57	82.94	90.92	30333.32	120.99	445.32	46.05	11.03	151.70	37.44	123.88	13.27
7538.90	377151.40	16.80	2883.86	82.19	91.96	31233.87	136.74	316.21	88.99	19.15	153.00	56.63	105.19	36.04
7538.96	371854.60	16.80	2772.05	85.28	91.41	30768.27	136.02	309.76	89.55	19.51	153.94	57.32	102.54	35.19
7539.03	371340.20	16.80	1821.36	87.78	98.17	31348.80	141.90	291.33	89.15	19.39	159.91	59.96	101.63	34.61
7539.09	385089.80	16.60	1741.33	92.11	98.04	30606.39	142.66	374.31	88.48	19.67	169.90	68.32	104.36	34.60
7539.16	377965.40	16.60	1658.86	91.71	102.16	30711.20	147.41	319.71	90.15	18.85	188.45	79.37	101.27	32.81
7539.23	377738.80	16.60	1587.17	94.23	104.19	30263.74	134.28	306.21	48.37	10.26	200.77	65.54	118.59	8.63
7539.29	353391.20	16.80	1473.06	103.91	113.29	36654.13	184.77	295.99	56.57	22.92	187.94	90.17	106.04	26.23
7539.36	321083.60	17.00	1178.45	103.77	128.15	39213.04	181.26	235.20	59.51	24.80	225.71	86.63	98.29	25.05
7539.42	300479.40	17.20	1075.54	93.24	129.04	38778.67	181.04	66.91	59.70	24.11	233.26	81.24	100.30	25.56
7539.49	283962.20	17.40	1177.38	94.77	128.17	39282.29	176.77	66.00	58.07	24.10	242.45	71.04	102.50	26.74
7539.55	255115.80	17.80	1154.20	95.59	126.76	38743.52	176.58	59.00	56.26	24.73	253.14	70.26	107.41	27.66
7539.62	290406.00	17.40	1277.91	88.51	123.87	35545.56	138.18	38.15	51.10	12.30	273.30	48.86	123.73	10.06
7539.69	314852.60	17.20	1369.23	90.68	107.90	37687.40	149.46	71.63	56.83	12.51	232.38	49.21	134.77	9.91
7539.75	301161.80	17.40	1246.43	106.74	118.13	41957.07	161.65	152.37	61.74	15.69	219.83	47.65	132.96	9.39
7539.82	306593.00	17.20	1068.45	118.58	123.72	49746.65	179.23	382.12	72.99	20.33	199.55	46.50	130.70	10.04
7539.88	305598.60	17.20	825.92	119.35	123.23	52459.68	188.08	469.05	79.50	22.63	172.26	40.88	125.71	11.31
7539.95	284149.80	17.40	450.58	122.81	119.43	55171.66	188.22	758.86	89.12	25.85	156.76	36.25	124.16	10.64
7540.01	271298.20	17.60	160.50	127.43	122.26	53973.10	196.69	804.07	87.10	27.87	154.08	35.97	123.48	11.77
7540.08	264068.20	17.60	167.22	127.71	120.65	54943.67	196.82	762.03	90.90	27.73	148.65	34.32	120.71	12.07
7540.14	256121.40	17.80	292.27	132.91	126.22	53802.02	199.36	613.56	92.10	27.40	151.93	34.50	123.15	11.60
7540.21	272989.20	17.60	164.29	143.10	135.39	56064.11	207.01	539.78	94.87	28.49	152.58	40.92	127.97	11.52
7540.28	280050.40	17.60	211.53	141.24	137.41	58867.52	209.86	250.82	91.88	27.90	149.44	41.84	127.67	10.79
7540.34	287641.60	17.40	423.79	135.14	140.45	68680.66	197.36	179.86	105.38	26.78	142.44	40.92	117.94	10.57
7540.41	310619.80	17.20	369.05	128.37	142.29	71333.68	192.30	159.30	106.66	27.41	137.93	43.43	119.52	10.31

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7540.47	317747.20	17.00	118.53	123.48	127.99	70572.53	190.24	113.57	103.24	27.15	120.88	45.57	124.84	8.99
7540.54	299494.00	17.20	304.62	112.38	124.96	77648.71	187.49	127.18	111.04	26.42	131.97	38.41	112.71	7.62
7540.60	300340.60	17.20	320.40	108.86	125.72	73370.78	184.42	195.45	107.65	25.55	145.27	39.27	110.25	7.38
7540.67	289950.60	17.40	346.92	109.47	122.71	66176.37	199.22	310.29	96.28	27.24	149.57	41.05	119.43	6.90
7540.73	292657.60	17.40	3422.78	118.08	116.13	64311.47	214.57	653.22	95.15	28.57	162.21	39.15	119.71	6.03
7540.80	290703.60	17.60	3520.36	114.23	123.10	60927.16	209.59	785.84	90.15	27.48	178.57	36.25	116.05	6.19
7540.87	292015.80	17.60	3451.96	111.33	114.64	50955.70	210.62	929.65	77.21	27.47	181.03	36.71	126.44	6.28
7540.93	283956.00	17.60	3554.77	122.96	111.79	52701.93	218.70	1103.98	77.89	28.26	180.41	36.85	127.84	7.61
7541.00	291971.60	17.40	3498.56	119.87	111.02	49773.03	208.70	1210.69	73.24	27.38	180.16	36.32	123.61	8.23
7541.06	299930.60	17.40	430.78	110.74	111.49	47088.87	195.47	1096.77	67.53	25.44	180.74	35.37	119.44	7.60
7541.13	323499.40	17.00	437.41	107.10	110.90	45942.94	194.84	1156.30	68.45	25.10	180.78	35.41	118.09	8.02
7541.19	346589.40	16.80	469.97	107.92	117.30	43826.78	186.18	1302.00	66.13	23.46	190.58	38.32	112.56	7.28
7541.26	338932.60	17.00	426.69	80.08	121.85	36030.86	172.10	1128.24	54.15	19.56	237.96	43.39	100.71	5.18
7541.33	350093.00	17.00	363.24	65.81	126.25	27106.04	138.72	888.98	42.23	14.13	269.57	44.27	80.67	3.14
7541.39	347560.20	17.00	311.52	48.23	138.53	18430.00	104.33	639.07	30.27	10.07	293.38	46.11	60.45	3.33
7541.46	349397.80	17.00	220.39	28.40	134.33	11270.75	71.85	407.94	17.68	6.14	322.71	44.48	35.39	1.16
7541.52	354163.00	16.80	171.16	12.55	131.56	5421.46	42.98	86.46	7.91	3.15	323.97	41.06	16.96	-0.45
7541.59	381171.40	16.40	73.59	7.93	130.65	2067.53	16.41	6.68	4.46	2.26	286.25	32.65	6.66	-1.00
7541.65	386401.40	16.40	95.33	6.66	124.52	1937.26	15.97	3.51	3.61	2.34	272.24	28.69	7.54	-0.88
7541.72	394765.80	16.20	110.25	5.56	114.01	2349.47	19.78	3.09	3.97	2.37	249.17	27.32	7.24	-0.45
7541.78	395578.80	16.20	103.56	7.24	119.86	2900.21	19.70	3.88	4.11	2.23	227.24	30.43	8.09	0.33
7541.85	396789.60	16.20	2759.27	7.63	121.48	3123.38	19.21	8.57	4.00	2.45	222.59	33.01	6.42	1.14
7541.92	397563.00	16.20	2759.54	7.43	122.39	4834.49	21.77	9.80	4.96	2.43	221.96	34.49	6.76	2.52
7541.98	389586.40	16.20	2746.80	8.97	121.28	6486.84	24.94	9.78	6.63	2.48	229.50	36.89	8.58	3.39
7542.05	349413.20	16.60	2747.56	13.56	116.09	7512.13	24.31	11.18	8.00	2.65	228.29	40.09	14.49	2.56
7542.11	313117.40	17.00	2809.40	14.29	111.36	9969.26	28.67	17.71	11.21	2.87	222.40	46.36	20.12	2.46
7542.18	285862.60	17.40	407.87	23.39	114.51	17030.65	53.82	102.15	19.78	4.90	218.75	48.47	38.29	3.39
7542.24	272223.60	17.60	515.40	44.71	108.26	23255.74	88.07	331.57	28.91	8.83	205.60	50.12	58.55	4.82
7542.31	267349.60	17.60	560.51	64.19	105.85	29670.07	122.09	599.33	40.14	13.01	184.94	50.90	77.92	6.04
7542.38	285620.00	17.40	596.87	79.28	104.20	35140.66	153.60	770.73	49.66	17.04	188.37	50.55	94.15	6.06
7542.44	296130.20	17.40	571.09	96.40	99.76	39054.41	181.85	956.71	55.41	20.66	193.20	46.44	110.18	7.06
7542.51	304943.80	17.20	362.38	105.66	88.06	39371.24	186.79	1123.27	57.45	22.47	183.99	45.21	115.89	7.39
7542.57	316723.40	17.00	367.89	103.00	91.61	48611.63	182.85	1096.71	67.61	21.83	184.84	43.98	112.90	6.96

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7542.64	312846.60	17.00	405.90	98.10	99.34	49424.91	182.05	983.73	67.18	21.53	180.46	45.08	113.14	7.42
7542.70	310533.20	17.20	482.72	99.56	99.08	49403.75	178.35	950.96	67.60	20.02	183.06	43.10	114.64	9.18
7542.77	322431.60	17.00	459.42	92.19	105.94	47383.31	160.88	858.34	64.94	17.49	199.81	49.48	104.09	8.16
7542.83	345309.00	16.80	1806.87	95.87	111.26	48744.06	172.51	720.21	67.21	16.78	199.53	51.77	110.30	8.53
7542.90	347140.00	16.80	1707.00	97.26	105.21	40829.09	179.25	672.77	60.80	17.67	203.25	51.82	113.88	8.72
7542.97	376476.00	16.60	1632.96	103.17	104.02	42413.33	188.93	611.49	59.74	17.77	205.10	50.84	115.01	7.51
7543.03	402295.20	16.20	1459.86	93.24	120.35	38593.64	175.34	554.73	54.21	16.41	253.59	71.38	100.44	7.17
7543.10	412928.00	16.00	1401.00	91.76	127.05	40038.93	187.07	595.89	58.02	17.98	274.97	75.17	104.21	6.92
7543.16	418111.60	16.00	23.68	90.42	125.96	40751.30	181.19	663.59	60.73	18.75	290.87	73.17	95.51	6.45
7543.23	425042.20	16.00	95.13	88.88	132.84	41307.87	183.99	579.74	59.80	18.69	299.14	76.33	95.08	5.65
7543.29	402271.00	16.20	185.70	88.83	129.26	39931.11	177.85	528.55	60.13	18.58	296.75	81.22	98.36	6.69
7543.36	415416.40	16.20	283.73	101.54	115.02	48394.35	196.47	495.44	70.18	20.72	235.00	61.31	110.23	7.09
7543.43	417450.00	16.20	363.16	111.59	99.95	49162.33	202.68	413.29	73.10	21.36	196.78	51.37	116.29	8.17
7543.49	408757.60	16.20	276.34	109.21	93.15	47733.52	208.01	302.25	72.29	21.97	180.44	51.13	115.90	7.95
7543.56	409825.40	16.20	72.63	111.99	90.36	46876.56	207.18	299.50	73.96	22.60	175.05	48.09	116.75	8.57
7543.62	432019.80	16.00	-150.44	115.58	84.51	47831.50	211.66	392.99	78.93	23.47	183.78	42.95	113.85	7.89
7543.69	408265.40	16.20	-299.37	114.00	84.25	45424.00	235.82	384.71	199.08	34.58	169.66	71.40	101.91	27.98
7543.75	394083.20	16.40	-441.05	112.96	86.03	46201.49	237.29	446.92	200.98	35.41	172.23	71.51	99.50	27.28
7543.82	349104.40	16.80	-446.15	113.29	82.58	44386.28	222.24	427.23	198.46	34.05	207.05	75.88	94.07	26.58
7543.88	266952.60	17.60	617.37	104.36	72.27	35201.06	193.49	374.08	196.66	30.27	177.53	75.62	69.26	26.91
7543.95	250492.40	17.80	671.60	102.35	77.46	33451.74	186.78	322.95	193.70	29.85	169.92	76.91	64.78	26.57
7544.02	256344.20	17.60	668.69	96.36	72.02	33538.69	170.82	378.21	69.54	19.85	181.17	49.19	78.08	6.14
7544.08	250759.20	17.60	707.55	87.28	67.93	32657.37	191.74	289.18	104.23	26.60	151.12	66.77	66.33	24.78
7544.15	275996.00	17.40	646.10	82.30	73.35	32465.81	191.62	302.40	103.60	26.26	126.64	61.26	68.08	24.26
7544.21	321006.80	17.00	-1014.13	118.18	93.74	38573.76	205.36	308.32	100.73	28.15	327.48	62.71	90.71	23.28
7544.28	308640.40	17.00	-2088.49	122.03	101.04	45862.80	190.28	233.10	105.12	26.30	876.52	57.91	74.47	23.08
7544.34	275893.40	17.40	-2713.05	157.36	125.35	42059.79	172.03	143.00	102.67	24.60	1046.19	56.30	72.36	23.50
7544.41	261860.80	17.60	-3157.48	202.34	149.75	41440.66	147.28	222.94	62.00	16.17	1184.42	35.65	85.90	5.70
7544.48	241361.60	17.80	-3682.06	239.78	167.93	40939.18	146.75	228.09	59.33	15.85	1327.46	34.72	83.00	7.32
7544.54	229125.00	17.80	-3334.21	243.69	169.01	39111.40	146.57	245.32	57.29	14.95	1242.32	33.59	76.04	7.42
7544.61	212636.80	18.00	-2571.62	268.35	179.64	28915.42	155.20	270.63	49.00	15.45	786.76	37.01	90.02	7.97
7544.67	223564.20	18.00	-2225.20	266.38	172.69	28569.17	155.39	284.00	48.50	15.42	738.97	37.80	89.78	7.69
7544.74	237486.40	17.80	-2647.25	259.23	165.27	30666.27	146.15	183.55	52.60	14.05	904.99	37.53	85.77	6.40

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7544.80	249747.40	17.80	-2592.43	266.60	156.52	29642.25	145.96	116.85	51.31	13.68	992.28	41.31	88.22	6.29
7544.87	216169.20	18.20	-618.55	234.80	134.96	25124.12	125.35	87.68	43.43	10.92	870.59	32.45	76.56	12.85
7544.93	211174.80	18.20	-376.18	218.59	130.67	23121.76	126.49	65.99	40.07	9.75	910.70	36.10	75.69	12.49
7545.00	211441.60	18.00	-59.84	194.48	122.15	22262.41	132.82	66.20	38.53	9.34	845.06	36.18	72.95	11.26
7545.07	217835.80	18.00	698.34	182.26	125.00	23406.84	147.55	90.82	35.77	11.88	603.01	36.32	76.45	12.88
7545.13	242942.60	17.60	1323.46	145.30	119.77	27396.01	162.35	172.61	39.55	14.05	357.99	33.62	81.73	13.25
7545.20	309283.40	17.00	-222.84	142.59	123.25	36401.25	227.11	202.27	107.78	25.27	374.34	75.78	87.78	28.70
7545.26	345767.60	16.80	-11.99	121.84	113.28	40733.58	226.62	273.65	108.80	27.06	247.27	72.77	91.80	29.27
7545.33	354649.60	16.80	46.81	122.87	114.76	43688.73	229.20	264.74	110.80	28.01	215.73	74.64	96.61	29.93
7545.39	344015.80	17.00	-83.58	112.47	110.16	36449.74	201.57	232.11	102.94	24.92	287.47	93.72	81.26	28.78
7545.46	328355.80	17.20	-525.13	125.53	122.88	33178.29	185.96	148.34	99.87	21.97	420.69	103.63	74.60	26.71
7545.52	338674.80	17.00	-1027.82	143.53	142.64	31472.50	147.29	112.48	40.72	14.45	567.22	86.74	86.19	4.44
7545.59	348734.00	16.80	-1084.39	152.99	142.23	31624.45	157.27	33.65	44.75	15.77	567.60	90.30	87.97	4.20
7545.66	364341.00	16.60	-1103.53	147.59	137.73	32400.48	159.74	58.43	44.88	16.05	539.72	88.94	85.76	4.15
7545.72	390378.60	16.20	-860.82	144.03	134.78	40181.97	191.18	177.23	53.81	19.39	415.07	70.08	101.37	4.78
7545.79	411936.20	16.00	-512.60	127.22	119.37	44703.87	205.47	325.99	57.99	23.37	282.15	59.61	104.88	6.34
7545.85	414654.00	16.00	-199.08	112.14	97.68	46338.16	213.76	455.41	59.42	25.04	142.09	44.26	105.06	6.46
7545.92	416499.20	16.00	-333.60	112.10	93.97	46847.08	213.08	550.97	59.69	24.46	132.79	41.75	103.66	5.25
7545.98	438364.20	15.80	-384.59	113.51	100.49	68975.32	218.80	554.58	76.66	26.46	129.24	42.04	98.69	4.41
7546.05	437418.00	15.80	-343.05	112.36	95.66	70199.36	220.63	529.94	80.51	26.64	131.06	44.22	97.73	4.12
7546.12	429126.60	16.00	-316.86	110.22	97.84	67529.13	216.37	516.17	76.85	25.38	152.20	47.48	96.07	2.59
7546.18	421277.00	16.20	-246.51	100.40	107.37	65448.90	246.41	417.96	198.81	30.33	144.50	88.38	89.76	20.99
7546.25	411093.80	16.40	-232.04	94.30	111.01	64124.09	241.71	566.21	197.02	30.02	181.36	100.00	86.82	20.90
7546.31	370388.20	16.80	-216.83	87.01	107.86	39639.11	225.98	743.64	177.86	27.56	221.17	109.11	87.46	21.27
7546.38	332914.60	17.20	-248.55	78.48	103.49	33874.85	215.49	835.26	174.28	27.74	251.74	118.67	84.34	19.81
7546.44	290804.00	17.60	-273.97	80.46	105.23	31084.85	207.73	814.33	171.69	26.42	269.96	124.10	81.42	20.06
7546.51	263259.40	17.80	-305.27	89.50	107.39	32903.15	178.14	906.53	52.44	21.27	298.82	89.04	85.45	0.23
7546.57	227412.60	18.00	-293.47	91.63	102.11	33690.79	183.61	882.81	55.67	22.17	273.29	79.54	84.42	2.53
7546.64	183272.20	18.40	-261.93	107.81	103.55	36324.96	193.45	970.38	60.15	23.31	246.87	70.86	84.36	3.90
7546.71	198087.80	18.20	-329.91	119.74	102.30	40814.67	209.88	1087.22	62.87	23.64	217.39	65.31	87.78	4.84
7546.77	251834.00	17.60	-437.23	116.76	92.07	45462.77	223.72	1301.94	70.22	25.01	178.78	59.39	93.26	6.02
7546.84	264565.00	17.40	-560.61	113.62	81.68	43789.32	216.20	1474.16	66.96	25.27	155.53	54.93	93.77	7.82
7546.90	264277.60	17.40	-568.86	108.54	85.51	46180.40	212.39	1378.35	67.78	23.44	160.96	51.60	92.81	5.74

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7546.97	325860.20	16.80	4948.44	101.95	88.64	52005.22	230.95	4433.29	72.37	24.20	146.92	53.76	96.21	4.21
7547.03	322993.40	17.00	4960.61	94.44	90.61	48468.26	221.07	4470.49	66.93	23.44	150.53	51.61	92.92	4.77
7547.10	290532.40	17.40	5027.97	94.09	96.39	45385.32	210.50	4239.29	63.16	23.19	173.76	54.81	86.35	4.58
7547.17	300743.20	17.40	5294.86	96.90	99.27	46091.54	210.87	4032.81	63.42	21.90	196.23	56.99	88.22	4.56
7547.23	334347.80	17.20	5399.16	95.44	96.34	45715.91	206.11	4051.82	59.22	21.52	202.24	63.20	84.14	4.33
7547.30	329378.00	17.40	-196.12	90.27	79.43	37442.15	185.74	844.41	51.87	19.92	231.18	67.31	84.79	3.73
7547.36	361373.60	17.00	-139.22	96.04	76.61	41374.31	199.88	951.55	58.69	21.00	225.03	68.22	88.54	3.59
7547.43	376778.40	16.80	-145.84	99.40	72.05	41643.57	206.48	1142.39	60.20	20.55	199.28	63.82	93.42	4.43
7547.49	380420.00	16.80	-207.62	92.91	66.57	40521.13	212.19	1601.78	60.50	21.13	190.38	62.58	92.36	2.62
7547.56	381205.80	16.80	-261.04	97.25	59.96	36800.64	216.99	1993.47	62.83	21.99	166.19	60.56	98.15	3.03
7547.62	371893.40	16.80	-199.42	95.52	58.35	36621.92	213.60	2022.10	64.00	21.66	139.59	54.03	94.91	4.66
7547.69	342331.60	17.00	-155.32	91.13	57.97	31326.16	187.94	1798.58	58.50	19.99	135.12	51.75	90.33	5.52
7547.76	334970.20	17.00	-220.09	91.31	58.55	31293.15	185.36	2895.69	58.71	19.29	128.44	55.53	90.61	5.62
7547.82	311219.20	17.20	-275.12	95.74	57.89	30051.89	171.08	2494.21	58.48	18.58	114.91	54.78	86.81	7.96
7547.89	299830.60	17.20	-232.83	95.68	63.11	31411.21	164.11	2038.81	61.83	18.91	110.13	53.91	85.98	7.91
7547.95	300878.40	17.20	-95.79	102.01	73.48	33645.28	169.43	2050.24	62.73	19.94	108.46	57.70	92.81	8.03
7548.02	248768.20	17.80	743.26	86.49	86.88	28295.97	143.53	1838.28	52.39	17.21	93.19	46.66	78.59	10.89
7548.08	252914.00	17.80	901.56	86.65	91.82	29087.99	145.36	657.29	52.07	18.06	92.87	43.90	76.87	10.53
7548.15	263855.00	17.60	870.48	89.02	92.06	30578.98	165.24	641.61	50.96	18.70	91.69	47.83	81.62	10.34
7548.22	270260.40	17.60	987.39	84.78	89.91	30249.39	172.42	593.07	45.35	17.81	95.03	47.04	87.86	11.94
7548.28	268278.20	17.60	986.11	75.33	85.08	28664.24	171.55	433.88	47.20	17.04	95.14	42.94	85.33	11.21
7548.35	333311.00	17.00	174.99	90.59	75.02	37155.15	211.13	441.01	57.31	20.29	111.85	54.54	104.35	9.19
7548.41	333489.80	17.00	226.80	85.48	69.58	37469.68	207.26	241.14	57.00	19.85	112.54	55.05	103.75	9.09
7548.48	332471.60	17.00	240.29	78.09	68.47	35765.45	192.15	134.68	54.28	18.68	107.74	50.34	100.30	7.85
7548.54	323065.40	17.00	123.85	80.38	63.69	33455.64	184.36	136.67	51.92	19.13	101.16	47.66	92.85	6.41
7548.61	317136.60	17.00	-8.68	76.12	58.83	31848.32	169.43	166.27	45.90	17.82	99.02	45.62	86.49	6.09
7548.67	313423.40	17.00	94.87	75.73	58.12	30112.57	162.78	224.35	44.79	17.14	97.32	44.84	85.69	5.75
7548.74	310812.60	17.00	64.60	76.43	58.70	26997.00	155.63	250.61	38.37	16.60	98.81	41.12	85.28	5.52
7548.81	315734.60	17.00	110.21	76.21	57.42	26274.45	149.15	246.81	37.20	16.69	101.12	40.92	84.78	6.06
7548.87	324982.60	17.00	190.24	74.73	62.45	26668.88	147.95	211.59	38.53	15.82	109.13	41.87	87.21	6.17
7548.94	333875.80	17.00	325.99	77.06	67.69	26848.30	150.25	149.48	39.81	16.30	124.92	44.54	88.42	6.69
7549.00	334745.40	17.00	1640.00	68.63	67.65	24699.20	131.06	70.14	38.01	14.47	161.04	50.24	77.47	5.15
7549.07	327648.20	17.20	1649.90	64.56	78.71	23635.29	117.81	37.98	39.44	13.60	195.62	59.16	75.72	4.49

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7549.13	340994.00	17.00	1794.73	68.39	83.28	26450.02	122.96	15.34	43.60	13.36	206.96	56.25	78.17	5.32
7549.20	347242.80	17.00	1922.16	70.46	85.49	26421.67	121.59	15.83	43.92	13.55	213.37	56.88	79.61	5.52
7549.27	348707.00	17.00	2022.97	73.39	86.97	26350.14	125.48	18.41	42.95	13.45	212.74	57.35	83.61	5.41
7549.33	366044.60	16.80	755.29	78.97	87.13	28649.13	141.90	19.47	43.54	14.76	189.61	51.02	92.63	7.62
7549.40	402872.60	16.40	1037.50	81.11	84.86	34853.47	149.47	19.14	48.87	15.13	178.19	45.68	97.57	8.34
7549.46	393799.60	16.60	1142.73	76.71	87.72	32406.49	142.59	20.37	45.34	14.93	186.18	49.60	95.04	8.21
7549.53	348055.80	17.00	961.10	69.17	75.61	29527.46	136.51	26.40	39.24	13.47	185.64	51.49	88.78	8.46
7549.59	321705.40	17.20	759.28	61.38	69.54	27659.37	122.44	31.90	36.15	12.00	170.96	46.56	78.81	7.08
7549.66	283191.40	17.60	658.17	64.89	69.95	25278.63	105.08	41.16	34.21	11.19	160.39	43.87	71.79	6.02
7549.72	229998.00	18.00	446.99	65.02	62.71	19481.20	101.48	46.00	28.87	10.96	141.36	39.32	67.01	5.35
7549.79	229603.00	18.00	289.22	69.23	59.37	19286.67	105.67	120.02	29.00	11.26	127.65	35.96	70.23	5.44
7549.86	273021.00	17.60	368.24	74.94	67.49	21825.27	112.82	143.74	35.09	12.46	124.01	30.88	76.30	6.08
7549.92	290796.80	17.40	519.27	81.60	70.52	22474.10	117.90	151.63	38.20	13.30	139.97	33.14	82.97	7.86
7549.99	317410.80	17.20	1538.29	80.04	67.35	22170.52	129.28	233.35	38.36	13.48	159.66	35.62	89.27	7.41
7550.05	374548.40	16.60	1458.69	98.55	88.89	30341.97	144.64	377.72	50.73	15.14	223.76	85.30	98.06	5.88
7550.12	377823.00	16.60	1469.82	95.06	91.20	31710.06	146.24	354.53	53.23	15.78	230.17	85.65	99.20	6.90
7550.18	374629.80	16.60	1469.46	95.89	92.54	31780.85	142.93	355.52	52.48	15.57	225.43	84.29	99.83	7.69
7550.25	358972.40	16.80	1431.60	94.62	86.59	31046.93	140.35	370.29	50.97	15.24	209.74	84.40	97.30	7.05
7550.31	353442.60	16.80	387.01	90.41	81.85	32474.91	143.36	401.13	52.03	15.14	186.71	80.55	98.17	6.49
7550.38	300396.60	17.40	347.60	68.30	55.15	23319.65	121.48	673.13	39.48	12.63	115.17	29.26	84.95	7.72
7550.45	266541.60	17.60	331.30	61.89	49.62	20557.73	109.76	642.24	35.58	11.31	108.88	26.85	78.35	6.56
7550.51	283958.00	17.40	297.90	67.82	50.02	22518.72	123.66	1367.03	36.62	12.33	112.41	30.08	85.73	6.65
7550.58	306041.00	17.20	321.14	71.62	50.92	24975.89	128.64	1360.86	39.56	13.14	123.32	29.76	89.62	7.77
7550.64	294468.00	17.20	365.77	72.88	53.74	22566.33	116.30	1264.60	37.04	12.78	154.13	33.97	84.31	8.00
7550.71	309010.20	17.00	391.27	74.27	56.26	23014.03	123.87	890.66	36.88	13.68	156.24	35.02	89.57	8.41
7550.77	309347.60	17.00	407.83	75.11	59.03	24596.63	128.95	898.85	38.21	14.07	158.61	34.51	91.89	9.02
7550.84	263291.00	17.40	361.14	65.22	54.24	20615.44	111.22	207.49	33.39	12.78	151.82	31.92	81.69	7.92
7550.91	250985.20	17.60	325.71	67.21	62.04	20610.09	122.66	1982.75	30.87	12.04	157.50	32.75	85.70	5.95
7550.97	220401.20	18.00	504.07	66.53	68.03	21529.23	137.26	1979.92	71.40	16.63	127.50	64.43	79.21	26.58
7551.04	211738.00	18.20	4870.56	62.58	72.00	18419.53	118.26	2071.50	66.17	14.73	148.46	65.56	69.36	26.56
7551.10	176997.00	18.60	5684.16	61.06	80.97	13608.49	106.97	2044.79	66.54	12.26	125.96	61.57	53.84	28.28
7551.17	209006.20	18.40	5661.20	49.27	89.11	10516.94	88.26	1982.34	62.52	10.30	147.52	62.30	37.40	26.64
7551.23	219358.20	18.20	5605.96	32.60	89.05	5384.22	56.45	181.33	56.68	8.27	149.84	60.40	16.81	26.52

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7551.30	264826.60	17.80	5347.83	20.18	88.99	1810.61	25.50	157.18	11.87	1.94	166.74	24.24	10.39	5.33
7551.36	286170.20	17.60	984.79	12.67	92.08	1829.35	26.39	15.42	10.89	2.01	170.96	22.50	6.48	4.61
7551.43	347045.00	17.00	101.51	5.05	86.67	2148.34	16.02	10.69	4.50	2.39	205.23	27.44	6.79	1.51
7551.50	336487.20	17.00	92.65	5.45	81.96	2043.20	12.67	4.73	4.11	1.81	199.93	26.37	6.40	1.94
7551.56	319662.20	17.20	61.31	3.69	84.47	1869.15	12.42	4.95	3.11	1.44	205.89	25.31	7.12	1.55
7551.63	294543.20	17.40	69.02	2.08	82.20	1389.93	10.91	4.10	2.97	1.25	212.59	24.04	8.87	1.46
7551.69	274451.40	17.60	86.33	2.74	82.39	1142.57	10.65	6.25	3.65	0.68	215.61	23.41	8.55	1.13
7551.76	244490.20	17.80	100.94	6.71	81.80	967.64	12.66	6.71	3.10	0.47	256.38	24.19	7.78	-0.20
7551.82	272499.80	17.60	87.07	5.22	85.67	862.04	13.90	7.43	3.03	0.87	299.33	25.46	6.88	-0.55
7551.89	311986.60	17.20	63.80	5.25	86.62	749.75	11.96	6.30	3.00	1.85	317.72	29.89	5.15	-0.27
7551.96	352636.80	16.80	35.97	5.51	85.05	737.30	11.92	5.97	2.80	2.01	317.63	29.60	3.87	-0.75
7552.02	384748.60	16.40	730.58	4.50	79.65	721.51	11.69	6.64	2.80	2.35	316.02	29.62	3.73	-0.17
7552.09	432131.60	16.00	683.70	0.82	79.32	685.93	10.37	6.80	2.96	1.87	235.71	89.21	8.07	-0.10
7552.15	425567.60	16.00	628.33	2.63	84.77	3259.25	8.21	6.20	5.65	1.90	284.13	91.36	9.29	0.04
7552.22	405503.40	16.20	625.45	1.43	79.55	4193.66	9.01	8.37	6.60	2.25	221.01	148.18	15.60	-0.25
7552.28	420282.40	16.00	627.97	1.88	88.39	6628.14	13.41	7.36	6.96	2.10	263.40	150.85	16.57	-0.23
7552.35	421771.60	16.00	-72.58	2.42	93.79	12773.74	23.12	6.15	10.61	2.67	271.47	153.14	19.89	-0.22
7552.41	385592.40	16.40	97.55	19.71	93.38	17622.55	53.43	7.26	18.18	6.28	308.01	93.68	35.81	2.81
7552.48	383992.60	16.40	359.05	30.06	85.43	20729.29	92.37	11.28	24.89	10.13	222.53	95.96	65.60	4.93
7552.55	395860.80	16.20	522.73	43.16	81.62	25749.97	131.72	11.04	33.18	12.79	258.85	37.56	86.05	7.33
7552.61	379185.60	16.40	698.86	60.61	73.22	30790.33	167.91	16.66	41.43	16.31	221.56	39.83	130.52	10.48
7552.68	363977.80	16.60	789.77	71.43	67.20	30079.75	190.13	18.53	45.73	18.49	196.23	39.38	154.38	12.51
7552.74	383223.20	16.40	811.56	64.17	74.82	28336.05	175.17	18.11	44.05	16.62	251.04	53.48	157.81	11.98
7552.81	324156.20	17.00	660.14	58.54	64.34	24313.74	141.76	16.05	39.09	12.92	274.20	45.54	160.99	12.71
7552.87	304320.60	17.20	1059.55	55.46	73.73	21522.68	105.04	14.67	40.22	10.07	293.30	44.90	243.79	13.81
7552.94	278620.00	17.40	998.99	47.28	68.09	17192.60	81.98	10.94	36.91	7.76	288.26	43.33	221.60	12.85
7553.01	228668.00	17.80	1136.24	48.13	66.62	15091.36	70.18	33.46	34.36	7.32	285.55	42.19	209.59	12.05
7553.07	226510.40	17.80	1119.21	53.32	54.01	16692.33	94.03	61.45	31.46	15.08	212.45	52.31	191.30	29.81
7553.14	271922.40	17.40	1180.31	60.58	59.04	19926.24	115.83	61.53	33.97	17.96	177.91	56.74	175.52	28.34
7553.20	279140.40	17.40	683.82	63.86	49.32	23477.01	148.53	65.23	30.71	20.06	141.78	54.96	84.08	26.26
7553.27	272129.20	17.60	731.70	64.88	49.72	23483.34	147.65	67.06	31.01	20.23	120.83	51.37	76.10	26.06
7553.33	322677.00	17.20	671.72	66.42	47.71	24057.13	151.31	45.07	31.69	19.80	119.68	52.93	84.17	25.79
7553.40	337060.80	17.00	693.84	65.70	48.84	25874.18	150.25	20.02	37.82	14.25	133.48	32.90	106.16	6.99

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7553.46	346883.60	16.80	866.50	66.08	52.73	28563.62	152.51	21.30	38.91	13.69	130.84	31.98	107.96	8.00
7553.53	346374.00	16.80	954.35	67.50	51.43	25961.29	145.10	19.99	38.81	13.79	140.76	34.65	113.15	11.60
7553.60	349327.80	16.80	820.23	69.50	49.84	25915.34	152.28	18.21	39.38	14.58	170.30	36.54	124.11	13.28
7553.66	315589.80	17.00	713.64	64.32	49.76	23604.50	131.38	15.64	39.91	13.08	194.31	31.20	123.02	13.53
7553.73	291206.60	17.40	733.19	63.51	46.45	19909.84	111.46	12.59	36.74	10.98	188.05	24.08	113.75	15.52
7553.79	270577.00	17.60	574.12	65.16	39.47	16059.85	108.82	22.69	34.42	10.94	181.94	24.49	116.98	15.62
7553.86	271992.00	17.60	566.10	69.15	45.73	18219.08	118.14	47.68	37.69	11.68	180.05	23.56	119.85	12.71
7553.92	257876.00	17.60	733.23	66.63	46.56	17280.48	111.00	47.39	35.71	10.89	159.65	22.61	108.95	10.85
7553.99	262259.60	17.60	967.71	66.64	47.01	19211.96	127.41	53.39	34.93	11.90	143.15	28.49	104.87	10.89
7554.06	244140.00	17.60	1161.28	66.48	54.58	20119.86	138.07	70.36	34.29	12.17	151.45	32.66	106.62	11.76
7554.12	232917.00	17.80	1383.48	58.01	61.67	20108.36	143.40	87.43	34.57	16.76	146.38	70.83	91.22	27.76
7554.19	172498.20	18.40	1647.07	39.64	62.53	14048.39	118.54	67.16	25.24	14.19	158.58	68.47	64.96	27.23
7554.25	183970.40	18.40	1497.77	33.04	69.53	12982.31	108.51	68.00	22.39	13.33	184.04	71.70	53.29	26.39
7554.32	199989.60	18.20	1233.79	27.21	68.23	10177.17	92.72	62.12	17.59	11.75	200.83	68.87	36.63	25.23
7554.38	218575.00	18.20	830.36	11.99	65.86	6589.28	64.72	43.86	12.44	9.69	222.03	70.46	17.97	22.27
7554.45	228355.60	18.20	480.31	6.35	63.92	3556.99	32.95	13.40	6.69	2.29	271.12	37.60	12.10	3.00
7554.51	285740.80	17.60	511.53	18.28	65.21	9536.06	63.90	39.34	13.40	8.02	247.81	94.12	20.59	24.11
7554.58	301712.60	17.40	576.86	19.64	65.64	10292.03	76.71	43.65	16.72	9.01	266.37	95.38	25.36	24.63
7554.65	305783.20	17.40	618.75	26.53	70.01	11860.57	100.82	71.73	20.24	10.96	274.85	99.55	44.44	25.18
7554.71	308088.80	17.20	804.99	46.09	65.92	15868.31	152.21	128.90	30.36	15.04	261.88	97.77	71.11	27.35
7554.78	306908.00	17.20	939.02	55.60	62.02	18104.61	206.12	153.43	37.37	18.65	238.45	91.15	100.70	31.43
7554.84	314530.00	17.20	529.27	43.83	68.11	12092.59	163.95	146.98	31.09	12.12	283.70	38.64	93.76	9.25
7554.91	316759.60	17.20	431.50	38.29	80.47	10498.65	147.33	141.94	26.38	10.55	257.14	35.08	87.23	7.59
7554.97	324904.00	17.20	329.27	30.44	92.71	8455.80	121.20	113.98	22.78	8.31	248.48	31.72	66.31	6.18
7555.04	272998.60	17.80	979.05	17.44	114.77	4289.10	79.21	61.57	10.83	5.46	211.46	25.34	42.82	4.47
7555.10	284978.20	17.60	1295.73	11.49	124.89	2476.45	53.31	41.30	5.94	2.91	242.37	27.69	26.30	2.33
7555.17	261512.20	17.80	1355.84	15.85	124.36	2744.41	55.10	17.07	6.56	2.99	228.57	30.31	37.51	3.74
7555.24	202914.60	18.20	1894.73	19.41	116.81	4457.82	58.28	16.20	12.58	3.97	219.19	27.36	77.67	6.65
7555.30	178524.40	18.40	2721.94	22.90	109.50	7040.14	60.65	15.86	16.29	4.83	198.81	28.22	161.92	9.77
7555.37	199978.20	18.20	2367.43	20.57	90.70	9252.48	54.57	11.52	22.85	4.95	225.36	32.37	230.81	10.76
7555.43	171936.40	18.40	2039.86	22.04	83.87	9179.44	42.91	6.52	21.97	4.75	189.56	30.67	235.93	11.40
7555.50	178870.20	18.40	1846.11	29.34	70.76	11632.93	88.54	46.94	26.07	7.03	188.36	27.35	245.40	12.21
7555.56	225019.20	18.00	1199.26	37.63	57.72	12172.91	128.60	51.06	24.48	8.60	191.47	33.81	222.53	12.13

Depth	XRF	XRF Live Time	Ti (ppm)	Cr (ppm)	Mn (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)	Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)
7555.63	234912.00	18.00	241.03	45.77	47.55	11692.55	164.79	61.80	23.96	10.36	200.73	34.03	154.21	11.04
7555.70	256553.40	17.80	-318.96	50.03	42.49	11672.65	198.54	64.98	21.94	11.32	211.80	35.68	98.08	9.36
7555.76	274370.20	17.80	-487.10	57.49	39.99	13414.58	224.14	68.34	24.58	13.85	227.82	38.82	96.27	8.90
7555.83	271544.40	17.80	-435.67	52.49	37.98	12162.05	193.28	26.59	21.59	12.64	260.01	42.55	88.83	7.04
7555.89	273309.40	17.80	-383.57	47.51	39.78	15655.42	156.79	38.22	17.88	11.52	273.06	40.64	73.40	4.42
7555.96	275566.20	17.60	-347.02	51.00	41.82	16430.56	172.14	28.64	18.51	11.84	290.57	40.96	81.87	3.50
7556.02	290284.40	17.40	-330.82	55.72	45.01	17368.49	168.58	26.76	20.89	12.52	308.05	40.78	84.76	3.85
7556.09	296820.40	17.20	-329.81	45.50	48.47	15875.90	140.36	24.66	18.38	9.92	329.33	37.42	70.07	3.51
7556.15	303572.00	17.00	-235.73	47.86	47.92	16839.51	146.38	51.60	20.48	11.37	305.24	31.23	70.44	4.21
7556.22	314484.00	17.00	-469.08	62.08	44.01	15326.36	186.75	44.58	30.95	15.18	325.85	31.13	99.27	6.33
7556.29	318397.00	17.00	-210.48	59.47	43.92	15529.55	179.55	77.86	34.27	16.03	314.08	29.15	98.11	7.19
7556.35	325544.00	17.00	-93.59	65.76	49.80	17864.29	199.24	97.21	40.57	18.41	303.99	28.91	107.35	6.94
7556.42	306111.20	17.20	-8.59	72.94	45.72	19241.46	234.11	118.88	43.52	21.37	274.40	27.46	130.52	7.76
7556.48	318911.60	17.20	-10.38	69.80	45.03	24749.27	213.66	90.35	39.46	18.76	248.70	22.12	116.21	7.52
7556.55	289246.40	17.40	270.56	52.00	44.34	20135.72	163.61	80.46	27.17	13.32	218.75	16.68	84.39	5.47
7556.61	268039.20	17.60	118.38	40.46	39.38	16698.60	114.85	45.93	18.22	9.78	221.67	14.11	60.76	3.86
7556.68	238536.40	17.80	3.15	24.07	27.94	12216.62	59.05	24.09	6.57	4.56	230.51	8.13	31.79	2.99
7556.75	250483.20	17.80	-84.41	15.65	34.39	9588.35	10.73	2.05	1.82	1.00	245.42	7.32	4.91	0.79
7556.81	249865.60	17.80	-121.36	10.48	39.07	1518.87	5.68	1.54	1.47	0.48	263.01	9.47	6.55	-0.17
7556.88	285911.60	17.60	-130.38	9.81	54.77	1651.18	5.58	1.86	2.39	0.51	256.88	12.18	3.58	-0.20
7556.94	324541.60	17.20	-157.76	8.00	74.60	1740.30	3.91	2.14	2.93	0.92	259.34	15.94	4.60	-0.97
7557.01	360147.80	17.00	-102.25	9.22	85.32	801.06	7.54	106.86	2.80	0.90	245.16	20.94	5.52	-0.84

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7445.20	305810.60	17.20	24.11	65.99	86.95	9.32	4.62	-138.90	-5013.98	1.98	10.00	1.39	19.98
7445.26	371646.40	16.60	36.15	72.06	1.78	-2.39	5.05	-177.20	-3943.92	2.46	6.70	1.99	19.94
7445.33	323820.60	17.00	35.73	99.99	5.12	3.95	6.11	-223.29	-2690.28	2.75	7.22	2.22	20.01
7445.39	323086.40	17.00	40.92	100.01	7.64	5.80	5.33	-208.12	-3229.68	2.73	7.25	2.27	19.98
7445.46	320356.60	17.00	55.39	88.16	9.63	6.89	6.91	-176.13	301.06	2.78	7.06	2.72	8.06
7445.52	312668.20	17.20	66.98	69.41	11.04	3.98	8.43	-217.11	-1294.89	2.63	1.57	3.31	0.42
7445.59	314748.00	17.20	66.92	64.07	10.70	3.84	7.71	-197.31	-816.43	2.69	1.55	3.38	0.40
7445.66	377131.00	16.60	74.16	40.94	9.12	-2.95	6.84	-164.66	-1193.89	2.66	0.99	3.38	0.30
7445.72	386247.20	16.40	75.99	41.74	7.59	-4.49	6.48	-183.75	-531.89	2.99	1.07	3.42	0.37
7445.79	390361.80	16.40	71.63	40.41	4.87	-5.13	5.86	-215.50	-169.69	3.06	0.96	3.46	0.44
7445.85	401397.20	16.20	67.19	41.25	1.40	-3.07	5.77	-219.73	-89.39	3.27	0.71	3.51	0.53
7445.92	414612.00	16.00	65.02	59.50	2.63	-2.10	6.48	-253.16	283.36	3.65	0.61	3.52	0.64
7445.98	422822.60	16.00	57.95	66.03	1.36	-7.99	7.18	-268.06	-159.72	3.87	0.74	3.54	0.77
7446.05	428555.80	16.00	50.69	72.11	1.39	-8.75	7.74	-264.57	-73.95	3.97	0.81	3.63	0.80
7446.12	429538.00	16.00	48.18	73.51	0.60	-9.64	8.89	-272.07	-938.31	4.05	0.99	3.68	0.81
7446.18	424836.80	16.00	46.20	76.92	1.73	-10.21	7.93	-247.61	-166.32	4.12	1.20	3.71	0.80
7446.25	430787.80	16.00	44.97	72.29	2.70	-12.98	8.34	-253.80	-427.96	3.96	1.25	3.74	0.77
7446.31	437003.40	16.00	48.41	66.79	2.76	-7.89	7.89	-256.35	-591.86	3.90	1.05	3.83	0.70
7446.38	435271.20	16.00	52.53	63.35	1.86	-4.49	9.29	-263.53	-1175.38	3.92	0.83	3.82	0.68
7446.44	439332.40	16.00	58.66	64.90	2.90	-1.81	9.13	-240.60	-289.38	3.90	0.72	3.86	0.67
7446.51	446153.40	16.00	64.94	63.54	4.84	-1.90	12.89	-280.70	111.53	4.01	0.71	3.91	0.63
7446.57	438917.80	16.00	71.15	59.89	4.47	2.61	14.22	-277.31	-379.47	4.33	1.08	3.89	0.89
7446.64	401463.20	16.40	72.52	52.77	3.67	5.22	14.21	-278.03	-373.92	4.15	1.15	3.85	0.82
7446.71	405810.60	16.40	74.29	55.82	5.64	4.48	12.61	-289.09	-232.32	3.76	1.26	3.90	0.71
7446.77	408644.00	16.40	77.11	56.09	6.94	5.17	11.60	-281.86	356.45	3.64	1.18	3.96	0.63
7446.84	408767.00	16.40	65.34	59.60	298.44	8.93	11.04	-208.72	591.92	3.28	1.06	3.97	0.57
7446.90	408101.80	16.40	63.96	59.65	297.26	8.56	8.88	-193.47	508.09	2.78	0.59	4.05	0.23
7446.97	435316.20	16.00	62.77	65.11	298.18	6.44	8.28	-189.14	203.20	2.87	0.60	4.04	0.26
7447.03	432101.60	16.00	56.09	58.10	295.53	4.47	8.40	-196.67	1262.70	3.13	0.42	4.01	0.27
7447.10	414341.20	16.20	45.45	52.34	294.86	1.43	9.59	-204.32	507.44	3.24	0.86	3.87	0.34
7447.17	380105.80	16.60	48.71	38.34	1.21	-2.31	6.64	-268.13	-1565.56	3.28	0.71	3.76	0.42
7447.23	347241.40	17.00	38.78	33.46	1.39	-4.21	8.24	-269.53	-2013.56	3.17	0.71	3.67	0.51
7447.30	323673.00	17.20	34.50	29.95	0.36	-8.46	7.51	-284.28	-2143.21	3.34	0.97	3.53	0.74

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7447.36	297025.00	17.40	31.46	30.43	1.93	-5.53	6.24	-262.74	-1935.08	3.37	1.56	3.33	0.92
7447.43	277757.60	17.60	30.51	35.37	1.85	-9.25	4.45	-246.99	-3496.64	3.56	2.14	3.22	0.89
7447.49	247958.00	17.80	28.66	56.09	-0.04	-6.57	4.80	-205.46	-1591.17	3.46	3.83	2.97	0.91
7447.56	227731.20	18.00	28.51	70.50	-0.47	-6.37	2.66	-226.36	-1487.87	3.59	3.92	2.89	0.84
7447.62	195750.00	18.40	27.90	89.86	-2.03	-2.72	3.57	-196.78	-431.83	3.47	3.76	2.91	0.64
7447.69	185697.20	18.60	25.68	92.02	273.67	-0.47	6.46	-144.32	-1624.99	3.32	4.24	2.91	0.52
7447.76	172000.40	18.60	28.65	91.95	273.61	0.77	5.70	-169.33	-2168.29	3.05	3.31	2.96	0.48
7447.82	183755.20	18.60	31.56	99.25	275.31	-5.36	7.40	-184.95	-4430.35	3.20	1.84	3.11	0.45
7447.89	187026.20	18.60	36.33	81.13	275.50	-4.16	8.00	-129.51	-3690.01	3.25	3.19	3.05	0.45
7447.95	174821.00	18.60	37.00	74.53	277.02	-6.98	6.90	-139.42	-5850.13	3.37	5.37	2.93	0.63
7448.02	129653.20	19.00	36.23	162.73	1.76	-5.22	7.92	-136.78	-5115.41	2.95	20.17	2.33	1.18
7448.08	96745.20	19.40	27.95	189.16	2.61	-10.71	7.53	-72.28	-678.47	2.47	24.21	1.69	1.26
7448.15	132691.60	19.00	32.03	163.32	2.25	-7.91	6.35	-77.50	-122.68	2.63	24.07	1.77	1.26
7448.22	166648.80	18.60	35.71	168.72	1.75	-8.91	6.12	-110.10	-30.48	2.83	22.69	1.87	1.35
7448.28	220271.60	18.20	39.98	156.08	0.70	-6.48	6.83	-118.12	575.21	2.77	21.03	1.99	1.14
7448.35	280514.00	17.60	52.17	62.41	0.70	-10.51	3.31	-146.44	207.94	3.09	5.93	2.64	0.55
7448.41	349415.40	17.00	62.46	29.43	-1.41	0.81	4.55	-195.53	-2814.06	3.48	1.82	3.33	0.42
7448.48	356069.80	16.80	63.81	35.24	-0.32	3.10	4.99	-212.29	-1703.96	3.35	1.81	3.38	0.38
7448.54	364561.00	16.60	61.13	36.72	0.57	7.47	4.69	-197.43	-1389.37	3.16	1.85	3.43	0.26
7448.61	374352.00	16.40	55.56	37.51	1.29	9.71	4.91	-200.09	-1244.12	3.10	1.37	3.46	0.26
7448.67	388896.20	16.20	47.67	45.63	-0.39	7.61	4.66	-215.41	-1762.66	3.59	0.72	3.52	0.40
7448.74	395260.00	16.00	44.24	48.16	-0.54	4.91	6.27	-240.85	-725.00	4.13	1.02	3.49	0.57
7448.81	396206.40	16.00	40.59	46.92	0.86	3.44	4.39	-220.35	-1049.36	4.40	1.34	3.44	0.80
7448.87	395120.00	16.20	40.41	44.77	0.59	-0.17	4.29	-259.99	-491.65	4.78	1.50	3.39	0.96
7448.94	403281.40	16.20	42.82	50.36	0.07	-1.90	4.33	-273.69	-584.18	5.17	1.48	3.41	1.30
7449.00	414548.40	16.20	45.03	50.22	-0.01	-3.06	5.69	-281.14	2219.58	5.60	1.46	3.49	1.75
7449.07	416971.60	16.20	43.79	54.89	0.40	-2.79	5.21	-264.28	1990.74	5.23	1.24	3.50	2.38
7449.13	424317.80	16.20	41.15	63.94	-2.33	-4.53	6.63	-285.10	2335.66	4.94	0.90	3.55	2.79
7449.20	430918.20	16.00	32.79	63.96	302.64	0.65	7.27	-219.56	2338.90	4.64	0.73	3.59	2.89
7449.27	424115.20	16.00	31.96	61.41	304.34	0.37	7.78	-212.75	3731.16	4.26	0.56	3.65	2.64
7449.33	419627.20	16.00	34.25	55.84	303.85	-0.62	8.71	-228.20	519.77	3.75	0.52	3.63	2.08
7449.40	422775.00	16.00	37.86	52.34	303.29	-0.87	9.05	-217.94	1035.82	4.13	0.62	3.69	1.35
7449.46	426573.20	16.00	37.84	47.45	304.93	0.48	7.88	-193.70	1583.22	4.34	0.83	3.68	0.79

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7449.53	428196.80	16.00	42.52	51.68	-0.11	-2.09	8.88	-228.84	725.38	4.46	1.24	3.64	0.60
7449.59	431606.20	16.00	39.93	47.22	-0.61	-2.21	7.78	-225.13	1669.33	4.53	1.33	3.61	0.54
7449.66	430193.00	16.00	36.72	46.07	0.44	-0.84	6.17	-194.07	2440.81	4.52	1.47	3.60	0.62
7449.72	425423.00	16.00	31.79	50.03	3.47	0.34	6.93	-191.31	2415.13	4.14	1.77	3.55	0.62
7449.79	415980.00	16.00	30.76	54.36	3.96	-1.46	7.35	-166.67	2053.20	4.18	1.71	3.51	0.70
7449.86	410947.80	16.00	31.12	49.04	4.04	-4.56	6.83	-173.96	2017.86	4.09	1.50	3.54	0.68
7449.92	405037.00	16.00	31.65	57.64	4.59	-4.81	8.79	-120.52	949.98	4.33	2.11	3.45	0.78
7449.99	399671.80	16.00	30.24	59.17	3.95	-1.98	9.44	-121.29	1604.63	4.23	2.48	3.36	0.81
7450.05	397577.20	16.00	32.35	61.99	0.38	-2.85	6.70	-128.36	3488.65	4.35	2.16	3.41	0.80
7450.12	402237.20	16.00	31.65	56.17	-0.83	-0.06	6.45	-163.68	3436.51	4.04	2.02	3.47	0.66
7450.18	406786.80	16.00	29.25	56.16	0.84	1.09	5.61	-147.92	3873.94	4.21	2.17	3.49	0.68
7450.25	412036.40	16.00	28.70	53.94	1.14	1.05	4.20	-175.24	4386.48	4.45	1.90	3.51	0.76
7450.31	408955.20	16.20	26.50	53.55	2.63	1.48	3.66	-195.39	2999.59	4.44	1.48	3.58	0.67
7450.38	403548.80	16.40	25.23	42.48	3.53	3.87	4.94	-200.29	707.44	4.46	1.93	3.52	0.64
7450.45	405499.20	16.40	29.04	44.78	3.76	0.01	6.17	-212.85	2151.43	5.24	2.28	3.51	0.78
7450.51	402142.20	16.40	30.79	47.55	0.94	-0.25	7.15	-218.44	2881.60	5.04	2.21	3.47	0.73
7450.58	396827.60	16.40	29.85	38.50	-1.07	0.45	7.19	-221.16	1060.41	4.40	1.89	3.53	0.46
7450.64	393261.40	16.40	29.93	32.46	-2.60	0.50	8.21	-196.64	2620.01	4.18	1.91	3.50	0.44
7450.71	393537.80	16.40	29.84	37.43	-2.48	-0.81	8.41	-185.83	1688.14	4.15	1.71	3.53	0.44
7450.77	377240.20	16.60	27.89	35.27	-3.01	0.41	7.14	-166.64	101.22	3.54	1.90	3.45	0.36
7450.84	365402.80	16.80	29.96	32.17	-2.03	2.21	5.77	-163.48	-367.22	3.44	1.68	3.49	0.33
7450.91	358639.00	17.00	31.98	38.67	-2.00	2.10	5.79	-182.77	262.71	3.98	2.07	3.44	0.45
7450.97	340866.40	17.20	31.49	41.75	-1.50	1.30	4.35	-185.41	-824.85	3.71	2.07	3.40	0.41
7451.04	323467.20	17.20	30.06	36.34	-1.40	-0.18	3.32	-186.60	382.32	3.45	2.27	3.34	0.38
7451.10	306298.40	17.40	27.30	33.09	-0.88	2.27	3.20	-182.25	-898.04	3.32	2.21	3.35	0.32
7451.17	303895.60	17.40	22.11	32.38	-1.65	-0.96	3.75	-189.64	-1179.78	3.23	2.23	3.29	0.34
7451.23	303415.20	17.40	19.13	35.60	-1.19	0.79	4.22	-167.68	-1774.14	2.67	1.69	3.33	0.27
7451.30	322339.40	17.20	20.97	36.59	-0.89	-1.52	5.83	-177.90	-1190.66	2.99	1.57	3.35	0.31
7451.36	340153.20	17.20	20.08	42.88	231.86	5.02	6.06	-140.66	-1025.95	3.27	1.14	3.38	0.43
7451.43	357948.20	17.00	27.00	47.68	231.91	3.80	5.97	-151.03	-196.44	3.39	1.35	3.34	0.54
7451.50	365863.00	17.00	34.30	48.13	231.32	3.91	6.38	-171.81	-1322.42	3.75	1.54	3.34	0.74
7451.56	374015.00	16.80	39.64	40.27	231.35	3.80	5.88	-202.87	-1035.36	4.16	1.78	3.33	0.90
7451.63	370049.80	16.80	41.27	37.49	231.66	2.73	5.64	-181.21	-938.47	4.52	2.42	3.29	1.14

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7451.69	354960.60	16.80	47.61	39.71	-0.74	-1.35	5.84	-226.20	-525.19	4.68	2.60	3.30	1.14
7451.76	373280.00	16.60	44.89	35.84	-0.91	0.94	5.06	-232.36	245.02	4.86	1.95	3.42	1.08
7451.82	385653.20	16.40	42.38	39.10	1.18	3.55	6.00	-218.55	1389.69	4.81	1.69	3.51	0.86
7451.89	389104.20	16.40	39.13	40.87	2.36	2.58	5.63	-182.21	1701.50	4.52	1.55	3.50	0.73
7451.96	398777.00	16.20	37.82	47.96	1.39	3.65	6.02	-224.03	930.34	4.05	1.48	3.52	0.47
7452.02	421353.80	16.00	36.06	45.88	1.06	-1.11	6.78	-225.05	625.91	3.84	1.28	3.55	0.33
7452.09	413887.40	16.00	36.98	47.67	-0.13	-1.85	9.27	-220.50	353.99	3.61	1.18	3.56	0.26
7452.15	412694.80	16.00	38.63	45.23	-0.87	-7.21	9.34	-235.92	-191.20	3.68	1.24	3.53	0.37
7452.22	414772.00	16.00	41.13	52.36	0.27	-6.40	9.49	-247.35	518.18	3.72	1.28	3.57	0.31
7452.28	414992.80	16.00	41.42	55.81	0.86	-6.52	8.05	-227.66	424.87	3.91	0.85	3.60	0.28
7452.35	411796.60	16.00	40.25	55.94	0.76	-6.49	8.03	-223.55	37.11	4.07	0.77	3.60	0.28
7452.41	418305.40	16.00	35.89	64.57	2.55	-6.51	7.38	-230.49	850.10	3.97	1.22	3.53	0.28
7452.48	420522.00	16.00	30.61	66.28	3.85	-2.20	6.62	-219.47	732.39	3.78	1.31	3.49	0.20
7452.55	423256.80	16.00	29.29	64.03	2.68	-5.48	7.19	-210.39	1000.37	3.76	1.44	3.42	0.25
7452.61	428687.80	16.00	31.21	60.81	3.07	-3.01	7.05	-213.71	2806.95	4.42	1.89	3.31	0.60
7452.68	453246.80	15.80	40.62	72.36	2.28	-5.00	6.05	-288.16	5052.13	7.07	2.43	3.29	1.02
7452.74	448504.00	15.80	45.14	60.30	1.96	-5.50	4.42	-286.17	3836.20	7.38	2.15	3.31	1.08
7452.81	441555.60	15.80	50.69	63.43	2.15	-8.38	3.71	-285.64	5204.44	7.38	2.02	3.32	1.09
7452.87	434592.20	15.80	49.26	66.05	2.38	-7.36	3.90	-295.88	3619.84	7.31	1.77	3.35	1.13
7452.94	438461.40	15.80	48.08	68.50	2.62	-9.77	4.53	-301.90	2705.86	7.03	1.32	3.48	0.91
7453.01	420166.20	16.00	39.87	56.79	4.86	-5.29	6.04	-224.61	556.56	4.53	0.99	3.53	0.56
7453.07	421230.60	16.00	40.28	62.10	3.71	-5.37	7.21	-217.55	1325.14	4.66	0.94	3.60	0.55
7453.14	425816.20	16.00	40.92	58.55	3.44	-4.16	8.87	-196.06	947.45	4.57	1.07	3.57	0.53
7453.20	431473.80	16.00	47.48	57.70	3.93	-3.31	8.20	-196.51	1958.66	4.86	1.19	3.60	0.58
7453.27	408545.80	16.20	51.57	49.47	2.37	-1.41	8.32	-178.44	1107.18	4.36	1.16	3.61	0.46
7453.33	397221.80	16.40	56.70	47.05	0.61	-1.08	6.32	-187.04	440.66	4.14	0.85	3.58	0.41
7453.40	384389.20	16.60	57.32	40.08	0.99	-3.48	7.00	-203.47	-218.64	3.88	0.72	3.55	0.37
7453.46	374615.40	16.80	54.31	37.64	-0.22	-6.88	5.69	-203.59	122.08	4.15	0.46	3.64	0.37
7453.53	365146.60	17.00	48.36	33.14	0.06	-9.18	5.24	-191.41	-1153.78	4.18	0.87	3.60	0.31
7453.60	376577.60	16.80	40.85	35.42	1.59	-10.90	2.82	-200.75	-1485.39	4.15	0.84	3.61	0.30
7453.66	375962.00	16.80	30.90	35.44	2.93	-13.66	4.11	-198.63	-412.52	3.92	0.89	3.66	0.30
7453.73	369707.40	16.80	23.46	33.99	3.45	-9.43	3.64	-191.17	631.64	3.99	1.51	3.60	0.40
7453.79	368156.00	16.80	21.04	38.17	3.60	-5.18	4.50	-212.21	-541.06	3.95	2.08	3.55	0.41

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7453.86	364386.60	16.80	17.61	36.90	1.81	-2.77	4.55	-231.57	518.52	3.69	1.79	3.65	0.40
7453.92	352407.60	17.00	16.35	33.50	2.17	-1.29	6.47	-211.15	1381.18	3.83	1.94	3.65	0.54
7453.99	346169.60	17.00	17.35	33.82	2.62	-2.38	6.71	-196.85	-399.86	4.15	1.99	3.69	0.61
7454.06	359065.40	16.80	22.89	42.22	2.35	-3.26	6.55	-196.28	-2047.93	5.24	1.99	3.69	0.82
7454.12	357663.20	16.80	22.72	41.06	3.60	-3.06	6.60	-193.91	-1446.06	5.73	1.90	3.66	1.15
7454.19	350443.80	16.80	20.60	39.92	4.66	-3.51	7.21	-190.68	-869.87	5.38	1.91	3.63	1.24
7454.25	368377.80	16.60	28.93	52.93	3.12	-4.34	7.33	-231.99	33.02	6.54	2.32	3.64	1.20
7454.32	360778.60	16.60	34.07	64.45	1.06	5.25	5.86	-275.62	1098.97	6.73	2.30	3.65	1.16
7454.38	368649.00	16.60	43.41	63.85	1.24	1.35	6.48	-270.73	2081.27	6.19	1.89	3.81	1.05
7454.45	374142.00	16.40	45.15	56.33	-0.08	1.75	5.38	-275.03	1712.66	5.71	1.69	3.92	0.91
7454.51	382602.00	16.40	45.27	60.95	-0.17	0.25	5.45	-282.07	309.40	5.91	1.88	3.87	1.40
7454.58	378471.60	16.40	36.62	48.16	0.68	-0.42	4.65	-258.81	-1224.76	4.69	1.20	3.75	5.29
7454.65	377585.00	16.40	29.23	33.46	1.94	-4.55	5.93	-223.25	-1770.86	4.33	1.37	3.54	9.42
7454.71	344021.80	16.80	11.87	34.09	2.34	-4.23	5.63	-257.39	-2496.13	3.10	1.44	3.29	11.46
7454.78	314559.00	17.20	4.62	37.91	3.49	-5.96	4.16	-266.44	-2861.36	2.81	2.50	3.00	13.75
7454.84	291113.00	17.40	5.61	28.05	211.63	-2.95	3.60	-217.17	-1104.40	2.29	2.95	2.82	15.11
7454.91	268420.20	17.80	4.31	27.43	212.20	-4.89	3.67	-233.55	-1481.34	1.83	3.51	2.74	13.43
7454.97	271542.40	17.80	3.47	28.92	212.50	-7.80	2.57	-268.23	734.93	1.32	4.67	2.64	12.57
7455.04	256956.20	17.80	3.15	26.27	212.64	-8.32	1.12	-277.98	872.26	1.45	5.41	2.58	13.60
7455.10	212348.00	18.20	6.43	111.80	215.85	-6.50	8.44	-206.40	4570.19	0.76	18.42	2.03	11.64
7455.17	167782.60	18.60	11.49	233.22	7.77	-7.27	3.00	-188.03	11298.11	0.92	32.63	1.52	10.28
7455.24	115666.00	19.00	10.43	325.34	17.77	1.98	4.82	-135.74	15736.19	0.90	49.94	0.99	8.63
7455.30	136805.40	18.80	11.41	339.81	17.32	0.33	4.64	-119.81	15220.16	0.98	48.79	1.06	9.16
7455.37	183948.40	18.40	12.35	342.91	16.64	2.19	4.42	-112.84	15382.32	1.55	49.10	1.07	8.77
7455.43	250880.80	17.80	10.78	264.22	11.34	-1.40	-2.10	-177.60	11343.63	1.92	35.08	1.66	11.95
7455.50	311136.80	17.20	4.13	155.73	10.24	-4.39	1.95	-259.64	3399.38	2.01	20.42	2.16	14.90
7455.56	371356.60	16.60	4.62	76.64	-0.86	-12.13	0.04	-316.05	-2217.45	1.95	3.29	2.65	18.37
7455.63	366456.20	16.60	5.21	57.33	135.52	-8.13	4.53	-259.84	-1369.01	1.83	3.82	2.61	19.69
7455.70	369151.80	16.60	4.44	61.62	135.04	-13.97	6.27	-195.86	118.38	1.33	2.78	2.26	30.13
7455.76	383275.00	16.40	3.55	59.12	134.82	-11.45	6.21	-163.78	-927.35	1.14	2.56	1.97	40.77
7455.83	404490.20	16.20	4.08	62.16	135.09	-10.17	6.79	-112.92	-1357.44	1.11	2.16	1.70	51.81
7455.89	425809.60	16.00	3.91	64.56	135.03	-12.61	6.86	-69.32	-1257.95	1.24	1.75	1.41	61.54
7455.96	435953.40	16.00	4.32	81.03	-1.51	-15.95	3.90	-106.60	-4920.03	1.54	1.24	1.12	68.15

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7456.02	433669.80	16.00	21.53	80.00	-2.07	-8.94	4.57	-143.61	-6337.40	2.50	1.03	1.91	55.21
7456.09	436307.80	16.00	45.45	78.60	-1.81	-11.60	5.94	-162.73	-5340.22	3.39	1.09	2.68	40.85
7456.15	432736.20	16.00	67.83	69.97	-0.98	-10.32	6.96	-193.48	-4563.29	3.80	0.99	3.41	26.23
7456.22	432084.80	16.00	95.02	62.08	-1.84	-9.44	8.59	-237.79	-1224.30	4.51	0.77	4.14	12.34
7456.29	436436.20	16.00	115.10	56.60	-3.54	-8.00	9.83	-237.50	587.62	5.23	0.58	4.86	0.65
7456.35	442431.60	16.00	120.77	50.51	-1.76	-6.41	10.78	-234.80	732.79	4.88	0.65	4.71	0.39
7456.42	439925.40	16.00	123.41	48.17	-1.68	-6.68	11.69	-251.27	2375.19	4.67	0.51	4.60	0.35
7456.48	440590.20	16.00	123.94	47.93	-1.65	-6.70	12.63	-245.56	3028.50	4.88	0.61	4.50	0.45
7456.55	438009.60	16.00	120.91	47.92	-0.78	-6.15	13.77	-230.76	2084.08	5.00	1.02	4.32	0.60
7456.61	431057.40	16.00	116.11	42.00	4.52	-7.15	12.34	-227.24	2453.89	4.74	0.93	4.27	0.69
7456.68	436236.80	15.80	123.31	47.27	2.79	-9.13	12.00	-234.99	4479.57	5.91	1.05	4.24	0.98
7456.75	436824.40	15.80	116.10	51.56	1.80	-4.63	11.84	-218.40	3861.05	6.17	1.09	4.10	1.20
7456.81	415588.40	16.00	115.13	54.23	3.76	-4.12	11.09	-238.31	3228.62	6.81	1.35	3.92	1.49
7456.88	385598.80	16.40	110.50	46.87	4.40	-6.01	11.21	-231.83	2050.08	6.67	1.16	3.84	1.52
7456.94	352472.60	16.80	111.94	42.27	-1.50	-4.10	11.21	-225.03	-357.10	6.67	1.57	3.64	1.49
7457.01	312358.80	17.40	99.34	33.11	-1.45	-2.97	10.99	-204.61	-2363.77	5.54	1.46	3.57	1.29
7457.07	282047.40	17.80	81.57	37.72	326.13	1.87	8.75	-164.46	-3324.53	5.56	2.29	3.39	1.37
7457.14	279915.00	17.80	77.48	34.47	322.18	0.26	8.11	-162.32	-3794.51	5.10	2.14	3.37	1.23
7457.20	282051.40	17.80	72.59	40.57	322.62	2.86	6.60	-152.29	-3017.05	5.02	2.96	3.30	1.22
7457.27	311564.40	17.40	71.26	52.42	324.71	3.67	6.66	-169.24	-1117.18	4.96	2.65	3.43	1.13
7457.34	347694.80	17.00	76.04	62.38	325.55	3.43	7.24	-181.89	-289.71	4.95	2.49	3.55	0.96
7457.40	380038.20	16.60	97.39	58.51	0.05	-2.17	9.65	-219.22	1044.76	4.98	1.66	3.77	0.75
7457.47	399979.00	16.40	97.37	61.68	1.26	1.85	12.00	-221.82	1888.79	4.73	1.65	3.87	0.61
7457.53	425148.40	16.00	102.45	61.84	0.91	4.00	13.01	-239.37	1892.55	4.69	0.59	4.05	0.49
7457.60	424130.80	16.00	104.62	57.68	-0.13	1.82	12.66	-245.79	2719.62	4.65	0.75	4.00	0.83
7457.66	411397.40	16.00	101.59	47.69	0.56	2.38	12.22	-257.01	2707.91	4.42	0.86	3.96	0.81
7457.73	409908.40	16.00	98.72	42.16	-0.51	1.20	12.21	-238.76	2515.11	4.21	0.81	3.99	0.75
7457.80	411360.00	16.00	95.81	45.13	-1.36	-1.18	11.55	-217.79	2691.31	4.16	0.93	4.02	0.71
7457.86	409671.40	16.00	93.61	41.40	-1.63	-1.93	9.74	-195.26	2965.53	4.17	1.31	3.97	0.76
7457.93	403537.20	16.20	91.76	38.77	0.58	0.60	11.03	-172.40	1195.16	4.03	1.30	3.95	0.44
7457.99	402002.20	16.20	89.76	35.06	0.37	-4.04	11.28	-145.57	1199.11	4.29	1.70	3.84	0.59
7458.06	390595.40	16.40	88.23	37.54	0.86	-4.58	10.91	-164.24	708.83	4.48	1.95	3.75	0.82
7458.12	378975.60	16.60	90.84	29.72	1.90	-5.65	10.85	-157.30	-623.17	4.49	2.22	3.64	0.87

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7458.19	366020.40	16.80	91.14	25.95	1.96	-7.03	10.17	-180.22	-966.84	4.40	2.06	3.64	0.87
7458.25	365979.80	16.80	90.75	31.52	1.95	-7.31	10.07	-192.98	-141.39	4.73	2.50	3.67	0.97
7458.32	360261.40	17.00	92.89	38.19	4.69	-3.94	8.84	-202.19	319.02	4.66	2.46	3.73	0.99
7458.39	361072.00	17.00	92.40	37.39	5.83	-3.71	9.48	-198.95	792.48	4.69	2.98	3.73	0.91
7458.45	366822.60	17.00	93.04	33.78	5.11	-5.22	10.17	-196.29	1444.78	4.87	3.07	3.81	0.91
7458.52	379081.60	16.80	103.15	38.74	4.44	-6.70	13.25	-176.36	1753.16	5.22	4.05	3.73	1.04
7458.58	385193.60	16.60	106.99	33.94	3.40	-6.61	13.91	-175.24	1563.95	4.78	3.86	3.82	0.90
7458.65	396828.20	16.40	110.05	37.68	0.46	-10.30	15.21	-166.85	407.51	5.13	4.96	3.75	0.95
7458.71	408694.20	16.20	114.29	42.89	0.17	-8.91	14.78	-164.18	1262.96	5.42	5.94	3.68	1.00
7458.78	420559.60	16.00	111.32	53.09	1.36	-12.02	14.57	-188.36	2044.24	5.41	5.97	3.72	0.94
7458.85	426116.00	16.00	95.34	53.94	2.29	-8.66	14.00	-208.05	2437.81	5.42	5.84	3.70	1.22
7458.91	445190.60	15.80	91.96	65.82	3.71	-9.54	12.00	-245.18	3365.93	7.28	5.47	3.70	1.43
7458.98	451298.60	15.80	90.51	65.93	2.73	-7.97	11.47	-253.50	5408.07	7.58	4.62	3.85	1.40
7459.04	453592.20	15.80	81.23	60.62	0.79	-7.73	12.20	-280.11	4117.27	7.79	3.18	3.97	1.54
7459.11	469974.40	15.60	83.44	68.21	1.22	-5.72	14.06	-305.57	3443.74	8.98	4.07	3.96	1.65
7459.17	484953.20	15.40	75.84	82.21	318.94	1.40	15.85	-254.94	3433.28	9.66	3.43	4.17	1.30
7459.24	471177.40	15.60	81.00	69.29	316.92	1.90	17.68	-228.16	3025.85	8.12	3.29	4.26	1.11
7459.30	466354.40	15.60	79.39	62.46	317.03	3.96	17.85	-203.59	1091.44	7.43	3.43	4.13	1.03
7459.37	468763.60	15.60	68.57	72.86	871.63	11.28	17.92	-145.93	2484.20	7.86	4.02	4.09	0.87
7459.44	448734.20	15.80	67.80	65.73	871.19	9.86	15.16	-102.74	3175.23	6.93	2.93	4.03	0.91
7459.50	443809.60	16.00	80.67	56.47	553.16	1.45	11.75	-137.55	2369.18	6.25	3.26	3.93	0.95
7459.57	446637.00	16.00	76.44	61.70	554.00	1.29	11.05	-146.84	2383.51	6.29	3.66	3.81	1.08
7459.63	450674.80	16.00	75.62	68.17	553.25	1.78	9.08	-160.77	2198.46	6.75	3.80	3.87	1.12
7459.70	444575.20	16.00	91.00	66.65	-0.55	-3.82	8.63	-196.98	1700.76	5.68	4.85	3.77	1.02
7459.76	445611.80	16.00	88.69	60.88	-1.65	1.22	9.65	-213.60	556.64	5.52	4.60	3.85	0.96
7459.83	437464.80	16.00	90.59	61.51	-1.04	-0.24	11.21	-224.10	292.61	5.35	4.16	3.95	0.78
7459.90	440794.00	16.00	91.16	62.00	-1.24	-1.55	11.01	-218.85	1198.68	5.62	3.78	4.02	0.66
7459.96	435531.00	16.00	90.85	61.42	1.23	-0.80	12.04	-210.26	2555.80	5.94	5.34	3.87	0.85
7460.03	439037.80	16.00	92.56	62.00	2.26	-4.19	11.47	-218.41	2142.97	6.10	3.60	4.03	0.85
7460.09	432966.40	16.00	93.25	69.41	4.05	-1.92	11.55	-182.94	2333.69	6.21	6.93	3.71	0.90
7460.16	425668.00	16.00	91.55	65.15	2.95	0.97	11.14	-155.66	2849.05	6.37	7.93	3.48	1.10
7460.22	389550.80	16.20	73.84	67.98	370.75	7.85	11.58	-98.75	2234.69	5.96	9.96	3.20	1.14
7460.29	394179.80	16.20	74.77	67.88	369.43	8.04	11.87	-100.41	1385.52	5.38	9.42	3.24	0.95

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7460.35	394409.60	16.20	82.06	59.77	368.99	7.67	12.40	-106.84	1543.37	5.46	10.29	3.19	0.93
7460.42	398612.00	16.20	92.54	54.76	367.40	8.30	12.41	-128.91	2053.27	5.05	6.72	3.54	0.72
7460.49	401408.00	16.20	93.59	54.01	368.37	8.74	13.60	-155.26	1652.26	4.88	5.62	3.71	0.59
7460.55	436599.80	16.00	110.03	52.38	1.43	1.77	14.46	-189.08	1961.35	5.91	5.53	3.74	0.98
7460.62	446534.80	15.80	113.54	58.10	3.45	2.72	15.40	-178.80	4203.34	7.38	5.90	3.73	1.21
7460.68	449410.60	15.80	104.16	63.98	2.79	3.46	13.97	-164.80	4914.68	7.81	8.70	3.48	1.41
7460.75	471788.20	15.60	98.01	70.40	2.96	-0.87	14.31	-202.18	6179.45	9.72	10.17	3.43	1.85
7460.81	465653.80	15.80	101.50	69.47	2.69	-5.08	11.53	-188.43	7752.04	9.93	11.39	3.29	1.99
7460.88	457138.80	15.80	103.00	66.36	2.50	-4.97	11.32	-201.09	6397.66	9.34	11.31	3.31	1.66
7460.94	444978.20	16.00	98.66	58.70	0.98	-5.08	11.01	-212.96	3745.54	8.04	9.22	3.51	1.46
7461.01	429100.40	16.00	83.02	59.69	385.05	2.92	13.12	-176.46	3158.46	8.12	9.70	3.41	1.67
7461.08	396821.40	16.40	75.11	52.74	384.60	4.02	13.02	-117.29	2005.67	7.02	12.94	3.03	1.68
7461.14	386169.60	16.40	70.86	53.15	384.70	9.19	16.17	-112.11	355.10	6.66	12.71	3.10	1.54
7461.21	381464.00	16.40	72.10	52.66	384.53	7.50	15.76	-143.01	1702.23	6.54	10.97	3.30	1.46
7461.27	366808.80	16.60	75.70	53.01	383.33	7.01	16.41	-150.46	1038.46	6.02	11.05	3.27	1.29
7461.34	362658.00	16.80	91.54	38.25	-0.69	-0.46	15.37	-218.80	767.59	5.06	6.66	3.70	0.81
7461.40	383382.40	16.60	102.44	49.32	1.23	1.70	13.73	-243.29	572.87	5.05	1.99	4.23	0.38
7461.47	407213.80	16.40	110.13	50.30	0.59	-0.99	12.58	-288.65	1357.48	5.42	0.93	4.42	0.31
7461.54	408899.20	16.40	110.37	47.61	-0.79	-1.21	13.32	-254.08	-347.69	5.40	1.42	4.35	0.45
7461.60	419956.40	16.20	111.26	45.02	1.84	-3.46	13.67	-276.35	80.41	5.54	1.08	4.42	0.44
7461.67	425737.20	16.00	114.31	44.08	2.57	-1.26	14.12	-262.55	41.56	5.48	1.31	4.38	0.48
7461.73	409807.60	16.00	109.44	37.54	0.91	-3.39	14.53	-240.68	-1034.99	5.01	4.29	4.00	0.68
7461.80	406060.80	16.00	101.70	51.93	1.74	0.48	14.63	-197.94	-2532.29	5.51	6.34	3.67	2.69
7461.86	415243.20	16.00	100.97	58.57	2.48	0.70	12.84	-228.12	-1086.02	5.56	7.09	3.56	3.05
7461.93	414571.20	16.00	97.33	62.17	1.32	-0.72	13.64	-210.22	-979.55	5.76	9.60	3.25	3.49
7461.99	422782.60	16.00	95.63	69.12	1.92	-3.54	12.22	-217.41	-951.30	6.09	10.04	3.22	3.55
7462.06	432421.80	16.00	100.20	77.49	1.91	-3.58	13.00	-231.36	1677.36	6.48	7.63	3.48	3.65
7462.13	445082.80	15.80	106.00	74.28	2.08	-4.99	12.46	-246.86	2734.12	6.49	6.72	3.60	2.01
7462.19	429777.00	16.00	93.57	78.11	3.01	-4.01	12.39	-190.66	3181.45	6.22	10.81	3.14	4.62
7462.26	426697.60	16.00	90.88	81.30	1.49	-4.30	9.99	-203.46	5260.29	6.56	9.98	3.27	4.43
7462.32	423844.80	16.00	82.74	85.19	1.14	-0.87	12.14	-179.31	4681.09	6.71	9.73	3.24	4.54
7462.39	395997.00	16.20	62.14	79.12	413.01	3.15	12.05	-143.18	1991.98	5.84	10.29	3.07	4.33
7462.45	350730.60	16.80	55.87	72.17	412.42	1.73	12.22	-105.17	2127.76	4.70	9.92	3.04	4.02

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7462.52	347849.20	16.80	66.31	59.97	411.22	0.54	12.06	-134.14	529.94	4.53	4.84	3.58	0.94
7462.59	339053.00	17.00	64.03	49.82	412.42	2.31	12.44	-109.82	-1598.40	3.55	3.40	3.65	0.72
7462.65	320440.00	17.20	67.59	42.04	412.40	0.65	11.52	-102.72	-1458.04	3.14	4.18	3.52	0.67
7462.72	328330.20	17.20	79.10	35.25	0.75	-3.33	10.86	-140.15	-892.48	3.34	3.57	3.56	0.78
7462.78	339409.80	17.00	79.36	25.12	1.04	-1.63	10.96	-177.14	-1288.37	3.25	3.92	3.50	0.83
7462.85	329917.60	17.00	76.18	21.11	1.35	-0.35	13.75	-162.71	-785.02	2.99	3.55	3.54	0.79
7462.91	328039.60	17.00	79.55	20.81	2.26	1.58	14.90	-176.32	-1309.72	2.98	3.36	3.55	0.74
7462.98	330183.40	17.00	80.41	22.92	3.67	0.42	14.88	-183.22	-403.45	2.94	3.52	3.51	0.70
7463.04	348063.20	16.80	84.52	30.77	4.24	1.62	13.74	-169.91	380.16	2.69	2.98	3.69	0.59
7463.11	361735.60	16.80	86.84	35.15	2.90	-1.10	13.86	-173.17	51.34	3.37	2.48	3.77	0.82
7463.18	369894.00	16.80	90.73	35.59	2.73	-0.33	10.88	-187.89	623.53	3.42	2.51	3.78	0.84
7463.24	364203.20	16.80	95.05	39.26	1.68	-0.72	9.05	-172.73	655.44	3.44	2.55	3.81	0.83
7463.31	361626.80	16.80	98.83	37.53	0.14	-0.31	7.60	-157.41	-478.36	3.22	1.83	3.94	0.74
7463.37	335227.40	17.00	98.65	28.69	0.02	-3.74	9.84	-126.21	-2230.79	3.25	4.99	3.50	0.76
7463.44	335611.00	17.00	104.91	27.15	2.75	-2.97	10.76	-124.51	-1552.24	2.83	5.83	3.48	0.47
7463.50	335155.80	17.00	109.97	34.67	4.31	-3.77	12.76	-127.66	-2114.94	3.24	8.02	3.29	0.59
7463.57	343533.60	17.00	112.31	46.80	5.02	-1.82	14.09	-147.87	-920.85	3.48	8.96	3.13	1.82
7463.64	361400.80	16.80	118.96	54.15	4.73	-3.46	16.57	-169.90	-775.17	4.42	10.27	2.99	2.34
7463.70	375516.40	16.80	130.81	53.87	5.30	-3.05	16.21	-187.89	849.36	5.07	9.04	3.19	2.52
7463.77	370316.40	16.80	131.65	52.10	2.03	-4.56	14.78	-160.43	1654.33	4.87	7.66	3.30	2.49
7463.83	391281.20	16.60	117.82	57.68	0.05	-4.20	13.33	-168.28	1005.14	4.91	6.31	3.41	2.60
7463.90	398028.00	16.40	98.79	41.93	15.67	-5.83	12.92	-152.15	280.63	4.65	5.91	3.48	1.81
7463.96	387174.60	16.60	80.71	40.13	17.12	-3.93	13.12	-148.79	226.64	4.05	5.16	3.49	3.30
7464.03	378926.20	16.60	70.89	41.66	17.38	-1.52	14.15	-179.52	-954.45	3.35	3.64	3.64	3.22
7464.09	369207.60	16.60	63.91	47.35	18.71	-4.69	16.03	-207.71	-2423.71	3.48	3.44	3.67	3.38
7464.16	332300.80	17.00	71.71	36.23	18.91	-5.47	16.79	-176.95	-2848.26	3.28	3.31	3.60	3.38
7464.23	330318.20	17.20	71.79	42.00	4.63	-9.95	15.72	-182.07	-3136.14	3.33	3.11	3.60	3.80
7464.29	334292.40	17.20	73.99	41.91	2.77	-9.09	13.14	-168.05	-2407.23	3.07	3.35	3.67	2.07
7464.36	347375.60	17.00	75.08	39.79	1.98	-10.18	10.48	-194.00	-2097.56	3.20	3.01	3.73	1.96
7464.42	359401.40	17.00	78.99	35.71	2.27	-5.96	9.37	-178.06	-1418.30	3.64	4.50	3.55	2.14
7464.49	380577.60	16.80	82.40	39.17	2.55	-7.21	11.70	-201.41	79.68	3.56	4.13	3.71	2.11
7464.55	389065.60	16.60	99.85	43.46	0.70	-4.99	12.43	-195.17	80.46	4.03	5.96	3.67	1.46
7464.62	403074.40	16.40	106.90	48.78	1.39	-5.67	15.33	-178.54	-635.40	4.93	6.99	3.72	1.41

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7464.69	402938.80	16.40	110.94	47.66	0.82	-5.00	18.15	-155.49	-718.83	5.19	7.92	3.61	1.48
7464.75	403498.00	16.40	115.50	46.73	0.65	-3.37	17.12	-175.46	-2376.60	4.94	6.89	3.72	1.25
7464.82	399011.80	16.40	121.41	46.16	1.56	-4.48	15.80	-164.76	-3949.30	5.52	8.62	3.47	1.41
7464.88	387128.20	16.60	124.35	37.07	0.76	-5.91	18.20	-164.49	-2627.61	5.35	7.39	3.51	1.36
7464.95	373824.40	16.60	131.83	29.28	0.18	-8.71	19.79	-200.60	-2423.24	4.79	4.94	3.62	1.39
7465.01	370986.20	16.80	137.40	37.81	0.40	-7.43	18.69	-209.63	-2125.24	4.54	4.18	3.70	1.44
7465.08	371114.20	16.80	132.30	41.35	0.80	-11.19	21.90	-196.92	-346.95	4.45	4.15	3.71	1.36
7465.14	378079.40	16.60	127.17	45.98	-1.25	-6.49	21.69	-220.18	2538.29	4.15	2.27	3.92	1.65
7465.21	386357.00	16.40	123.03	59.49	-0.68	-4.94	20.43	-241.35	2385.63	4.55	1.53	4.01	1.79
7465.28	388212.00	16.40	128.53	64.68	-1.58	-1.95	20.60	-257.80	2474.13	4.51	1.56	4.03	1.53
7465.34	389927.60	16.40	126.42	59.66	-1.48	-4.30	21.36	-253.89	3003.23	4.51	1.41	4.06	1.37
7465.41	398888.00	16.20	126.49	64.96	-1.62	-2.63	17.83	-288.66	2565.76	4.54	0.88	4.13	1.33
7465.47	411177.40	16.20	117.44	69.26	-1.62	-3.89	16.99	-293.70	1437.79	4.70	0.74	4.19	0.84
7465.54	417253.60	16.20	111.24	64.96	-1.57	-1.38	17.10	-298.57	1257.24	4.72	0.69	4.29	0.89
7465.60	413492.60	16.40	105.45	64.18	0.19	-3.79	14.27	-279.26	128.59	4.65	1.15	4.21	1.08
7465.67	414872.40	16.20	101.89	66.57	0.03	-4.29	12.54	-276.55	-1058.78	4.64	1.08	4.18	1.10
7465.73	408599.80	16.20	97.06	67.75	1.19	-3.00	14.85	-217.02	-913.61	4.61	2.42	4.03	1.22
7465.80	399763.20	16.20	86.23	70.53	417.25	2.27	15.55	-149.47	-1510.21	4.35	2.58	4.01	1.19
7465.87	395865.60	16.20	81.08	67.10	417.04	-2.29	14.11	-136.64	-3371.10	4.04	2.37	3.90	1.91
7465.93	412569.80	16.00	66.24	68.40	417.96	-3.48	13.81	-172.61	-3251.56	4.92	1.84	3.93	2.67
7466.00	423464.00	16.00	54.82	64.73	417.36	-1.35	13.57	-181.64	-1858.33	5.55	1.95	4.00	2.79
7466.06	415990.40	16.20	61.56	66.62	416.34	-1.99	12.72	-235.83	-1848.46	5.66	0.81	4.12	2.67
7466.13	412343.60	16.40	85.08	61.87	1.87	-6.50	12.88	-286.53	-1585.92	5.62	0.55	4.15	2.56
7466.19	410227.80	16.40	95.57	61.87	1.68	-3.00	13.87	-318.18	-1090.88	6.24	0.70	4.16	1.62
7466.26	393064.40	16.60	95.09	58.71	0.00	-1.27	14.35	-289.56	775.63	5.49	0.69	4.18	0.85
7466.33	395522.60	16.60	89.94	71.54	0.94	-2.38	15.88	-282.58	1583.47	5.20	0.55	4.22	1.00
7466.39	416754.20	16.40	79.32	71.37	0.28	-4.20	16.67	-297.67	2437.94	5.32	0.50	4.31	1.11
7466.46	423730.60	16.20	73.68	66.65	0.26	-5.50	14.88	-314.45	1848.50	5.44	0.56	4.27	1.41
7466.52	420810.20	16.20	71.37	63.65	1.72	-7.09	15.83	-293.91	2727.06	4.51	0.36	4.38	1.78
7466.59	424339.80	16.00	76.81	68.80	1.27	-6.02	15.78	-294.01	1946.25	4.39	0.35	4.42	2.29
7466.65	412296.40	16.00	84.73	51.05	1.50	-7.74	15.15	-300.43	1540.09	4.31	0.39	4.37	2.16
7466.72	409706.40	16.00	85.86	44.69	2.64	-7.32	14.46	-260.28	930.47	4.25	0.26	4.37	2.08
7466.78	413970.60	16.00	78.39	47.87	2.31	-7.49	14.58	-264.06	409.65	4.37	0.20	4.45	2.11

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7466.85	413226.20	16.00	66.02	51.18	0.96	-9.16	13.38	-250.68	-38.22	4.46	0.22	4.36	2.65
7466.92	410196.00	16.20	67.68	48.39	1.66	-7.78	13.05	-270.36	44.23	4.57	0.28	4.37	2.24
7466.98	362956.00	16.80	68.85	59.65	1.49	-7.14	12.07	-274.57	-1003.59	4.48	0.56	4.35	2.73
7467.05	317826.40	17.20	68.01	62.85	1.53	-4.75	11.47	-315.08	-1512.13	4.27	0.78	4.20	3.69
7467.11	316883.60	17.20	74.46	61.41	0.88	-8.36	11.05	-281.81	-221.63	3.98	0.80	4.19	4.35
7467.18	312391.60	17.40	88.22	57.64	1.20	-6.15	10.08	-291.39	781.63	3.95	0.95	4.22	3.80
7467.24	304218.40	17.40	86.15	55.73	2.34	-10.54	10.73	-280.36	1670.56	3.78	0.93	3.98	8.14
7467.31	333135.60	17.00	93.74	49.05	0.65	-11.49	11.29	-267.30	2599.90	3.86	0.92	3.92	7.98
7467.38	366867.20	16.80	96.27	47.05	-0.64	-12.26	11.68	-268.34	2959.16	4.06	0.75	3.88	10.84
7467.44	353229.20	17.00	96.62	47.30	0.60	-8.65	13.01	-283.93	3202.08	4.02	0.76	3.84	10.84
7467.51	353203.80	17.00	100.19	43.78	0.56	-6.63	12.86	-294.50	1479.65	4.03	0.63	3.80	10.61
7467.57	367450.20	16.80	103.65	42.40	1.17	-6.09	10.69	-335.78	259.09	4.45	1.28	3.84	6.72
7467.64	399421.00	16.60	90.23	50.49	4.18	-8.96	10.96	-365.93	-597.20	4.51	1.71	3.42	13.69
7467.70	415016.80	16.40	78.74	62.27	4.94	-10.80	9.90	-342.44	525.41	4.59	1.73	3.05	21.14
7467.77	424855.80	16.20	64.04	64.71	4.29	-11.44	7.92	-343.72	-4621.38	4.68	1.99	2.46	31.78
7467.83	431621.80	16.00	46.82	77.95	3.31	-16.65	7.48	-334.64	-2994.00	4.69	2.28	1.97	41.19
7467.90	421037.80	16.20	46.62	78.86	2.94	-16.28	8.86	-280.50	-2812.26	4.21	1.66	1.90	44.62
7467.97	396207.20	16.40	63.33	75.77	1.69	-13.05	9.19	-244.56	-1932.09	3.96	1.32	2.25	37.91
7468.03	362150.80	16.60	78.84	56.61	1.85	-12.32	9.90	-232.61	-3684.12	3.69	1.34	2.80	26.67
7468.10	333071.80	17.00	91.71	55.73	2.97	-12.95	11.54	-225.55	740.04	3.65	1.14	3.30	15.37
7468.16	334589.80	17.00	97.96	54.33	3.93	-7.97	13.04	-230.12	219.10	4.16	0.88	3.85	6.07
7468.23	348797.00	16.80	99.98	56.92	2.13	-9.48	15.83	-223.42	560.96	5.18	1.05	4.00	3.08
7468.29	358051.80	16.60	96.62	53.75	1.68	-10.21	15.41	-226.97	589.31	5.33	0.72	4.12	2.38
7468.36	372487.20	16.60	105.30	63.82	0.38	-8.92	15.14	-225.41	1248.77	5.35	0.85	4.04	2.35
7468.43	390695.00	16.40	119.11	53.07	0.67	-7.10	15.81	-224.39	2273.95	5.47	0.91	4.14	2.12
7468.49	381701.60	16.60	132.29	45.94	0.70	-7.97	17.37	-206.99	2163.07	5.02	0.87	4.09	1.77
7468.56	369951.40	16.80	136.18	40.49	-0.11	-4.53	12.76	-211.42	1911.70	4.14	1.27	4.03	0.83
7468.62	362688.40	17.00	130.54	40.48	-0.72	-2.22	13.80	-220.79	874.54	4.42	1.71	3.94	1.14
7468.69	357257.20	17.00	113.59	33.28	0.50	-0.66	14.09	-246.81	45.14	4.89	1.97	3.91	1.64
7468.75	347600.00	17.00	91.88	41.64	-1.89	-2.07	13.87	-228.66	-668.50	5.52	2.64	3.78	1.98
7468.82	328541.60	17.20	72.04	41.82	-1.24	-4.42	10.06	-210.99	-648.70	5.38	2.83	3.70	2.79
7468.88	310275.60	17.40	50.60	45.25	232.77	1.19	11.68	-163.94	-2064.04	5.58	2.59	3.71	3.86
7468.95	287735.40	17.60	55.94	44.47	233.07	2.57	11.05	-140.78	-2979.63	5.02	3.38	3.62	3.59

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7469.02	267994.40	17.80	73.42	47.65	232.24	1.77	10.57	-120.17	-2306.27	4.36	3.58	3.59	3.13
7469.08	264789.60	17.80	95.34	32.42	233.15	3.09	11.60	-129.38	-3809.35	3.62	4.10	3.52	2.84
7469.15	292245.00	17.40	124.22	29.55	232.06	4.40	13.93	-132.43	-3355.45	3.88	4.41	3.55	2.10
7469.21	326621.00	17.00	151.01	32.89	-1.22	-2.92	14.05	-198.19	-1385.31	4.40	4.45	3.58	1.37
7469.28	365018.40	16.60	155.36	35.06	0.39	-3.89	14.63	-193.05	546.35	5.22	4.13	3.65	1.55
7469.34	405316.60	16.20	148.88	36.33	0.83	-5.37	17.44	-199.43	163.68	5.75	4.13	3.68	2.06
7469.41	430871.60	16.00	145.91	51.97	1.50	-3.46	17.42	-195.21	2523.17	6.24	4.03	3.73	2.42
7469.48	435326.60	16.00	147.45	56.37	1.75	-4.32	18.85	-204.58	3176.90	6.38	3.64	3.81	2.47
7469.54	432866.40	16.00	159.66	52.79	2.70	-1.74	21.44	-177.85	2570.62	5.76	3.25	3.98	2.00
7469.61	431538.60	16.00	174.99	50.76	1.61	-0.79	22.59	-212.83	2902.01	5.54	2.97	4.01	1.89
7469.67	427831.80	16.00	184.37	50.26	1.34	-0.09	19.99	-190.93	2999.78	5.57	2.77	4.05	1.47
7469.74	408154.40	16.20	184.74	53.68	0.59	-0.99	20.96	-208.02	2846.47	5.48	3.32	4.01	1.59
7469.80	404695.40	16.20	171.79	56.68	0.89	-2.33	20.12	-216.97	2190.77	5.78	4.10	3.89	2.58
7469.87	402210.20	16.20	157.42	57.72	-1.44	-5.63	17.07	-218.92	2834.55	5.91	4.60	3.80	2.86
7469.93	399663.40	16.20	139.61	55.18	-0.89	-8.04	16.13	-218.97	2103.23	5.40	4.17	3.84	2.68
7470.00	397132.80	16.20	134.07	53.19	-1.90	-5.56	19.13	-214.70	3027.26	5.36	4.45	3.82	2.62
7470.07	414241.40	16.00	129.96	57.93	-1.23	-11.84	15.93	-199.00	2113.35	5.08	4.19	3.59	5.85
7470.13	417043.40	16.00	136.12	53.35	0.04	-8.11	16.37	-194.42	1983.80	4.63	4.10	3.69	4.76
7470.20	411728.40	16.00	132.00	47.54	1.19	-5.94	18.67	-211.44	1127.23	4.40	4.26	3.67	4.40
7470.26	407770.80	16.00	125.51	52.73	1.92	-5.15	20.10	-205.77	-855.29	4.46	4.24	3.63	6.33
7470.33	403338.00	16.20	115.54	59.46	3.42	-8.80	20.70	-219.31	-1716.02	4.30	4.11	3.55	8.93
7470.39	399566.20	16.20	112.10	47.85	2.41	-1.49	22.31	-208.21	-1549.12	4.63	3.80	3.82	5.24
7470.46	393044.40	16.20	105.81	47.09	1.53	-4.93	22.13	-202.53	-341.99	4.84	3.46	3.83	5.37
7470.52	396780.60	16.20	108.93	52.71	2.38	-5.35	21.46	-190.76	35.66	5.23	3.13	3.86	5.43
7470.59	400921.00	16.20	110.92	45.63	1.79	-6.65	20.43	-167.50	2155.90	5.93	3.81	3.80	3.67
7470.66	407659.60	16.00	111.86	41.40	0.82	-5.20	16.75	-185.03	3510.44	6.32	3.30	3.96	1.58
7470.72	417158.00	16.00	100.92	46.11	1.40	-6.79	18.07	-238.88	2073.39	6.76	2.29	3.86	6.47
7470.79	421962.40	16.00	98.41	52.29	0.63	-4.61	18.83	-283.93	800.25	7.74	2.38	3.82	8.32
7470.85	427991.40	16.00	100.38	48.55	0.83	-6.91	17.28	-296.83	1115.92	8.83	2.29	3.85	9.29
7470.92	417190.40	16.20	112.54	51.82	1.20	-6.02	15.77	-327.44	1066.89	8.17	1.84	3.90	9.30
7470.98	394568.40	16.40	120.25	53.09	1.70	-5.93	15.99	-291.57	381.82	7.59	2.52	3.75	9.04
7471.05	336900.20	17.00	139.85	60.59	2.20	-6.77	16.39	-253.46	491.50	6.62	2.38	3.77	4.10
7471.12	324202.60	17.20	142.30	65.42	3.44	-11.67	13.58	-200.81	1752.20	5.48	3.19	3.50	4.79

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7471.18	306767.40	17.40	128.81	73.06	2.97	-11.22	18.49	-213.11	667.68	3.84	2.93	3.15	9.21
7471.25	305659.20	17.40	104.09	75.03	2.39	-14.20	20.94	-214.68	405.75	3.54	2.49	2.88	15.93
7471.31	318115.80	17.40	103.52	70.16	0.94	-14.54	22.43	-268.26	393.28	3.64	2.48	2.83	17.33
7471.38	360035.20	17.00	76.32	78.89	194.10	-8.03	18.69	-227.35	100.87	3.60	2.54	2.97	17.91
7471.44	362207.40	17.00	83.26	75.70	192.90	-5.71	21.01	-246.84	139.66	3.48	1.58	3.19	16.54
7471.51	375636.00	16.80	106.15	70.84	192.33	-0.04	15.85	-224.85	-188.22	3.83	1.84	3.51	11.41
7471.57	385845.00	16.60	131.73	73.67	192.03	0.76	14.77	-214.11	-233.80	4.25	1.91	3.85	4.69
7471.64	396336.60	16.40	132.69	84.88	193.46	-2.85	14.23	-194.67	-1105.21	4.19	1.55	3.81	6.99
7471.71	403458.80	16.20	160.81	70.45	1.75	-7.70	19.07	-270.39	-784.13	4.73	1.53	3.86	6.95
7471.77	412525.60	16.00	170.76	70.05	0.78	-4.54	20.02	-281.37	-2303.80	5.23	1.14	4.00	5.59
7471.84	400593.80	16.20	168.11	66.68	0.84	-11.23	22.49	-284.57	-2501.24	5.22	1.23	3.99	5.22
7471.90	405710.60	16.20	165.22	69.98	1.30	-9.47	23.68	-289.70	-2575.10	5.01	1.15	3.99	5.03
7471.97	403494.00	16.20	172.43	61.59	1.30	-6.59	23.86	-306.92	-1722.29	5.09	0.70	4.28	0.91
7472.03	402930.60	16.20	166.99	56.83	6.92	-11.59	22.04	-282.19	-1168.63	5.02	1.09	4.26	0.35
7472.10	398760.20	16.20	158.14	49.75	9.25	-13.64	21.79	-285.41	-314.09	4.80	1.61	4.19	0.56
7472.17	403291.80	16.00	158.03	50.43	10.67	-8.55	23.11	-319.80	-45.70	4.71	1.40	4.20	0.72
7472.23	399201.20	16.00	164.89	43.38	11.15	-6.63	24.61	-287.14	-702.76	4.93	1.72	4.18	0.93
7472.30	399384.20	16.00	165.40	42.09	12.53	-6.82	26.77	-295.03	-1358.41	5.43	2.35	4.09	1.20
7472.36	403963.80	16.00	170.47	42.39	4.24	-4.36	27.20	-306.96	-1328.44	5.70	2.07	4.16	1.13
7472.43	420295.60	16.00	170.92	50.40	3.92	-6.93	27.01	-306.73	-1255.52	5.71	1.64	4.23	1.55
7472.49	432226.00	16.00	169.80	57.24	2.67	-10.16	25.48	-292.18	-1032.32	6.08	1.59	4.29	1.52
7472.56	432912.20	16.00	165.90	66.24	0.79	-11.15	23.32	-324.77	-1277.59	6.20	1.52	4.39	1.52
7472.62	427935.80	16.00	167.57	70.50	-0.84	-14.27	23.52	-290.42	-901.88	5.70	1.50	4.37	1.38
7472.69	420779.20	16.20	172.44	71.42	-1.22	-17.78	24.46	-271.07	-945.44	5.58	2.86	4.15	1.47
7472.76	406963.20	16.20	174.16	67.73	-2.70	-13.31	24.02	-253.52	-1714.95	5.63	3.46	4.03	0.97
7472.82	398229.80	16.20	170.03	56.71	-2.65	-12.77	24.39	-252.84	-793.75	5.47	3.58	4.01	0.87
7472.89	411701.20	16.00	163.61	53.14	-0.38	-13.71	23.99	-252.77	67.27	5.58	3.33	3.95	1.05
7472.95	420472.80	16.00	166.10	54.76	0.30	-12.85	23.65	-280.44	-344.68	6.07	2.99	3.99	1.05
7473.02	425694.00	15.80	162.63	52.89	1.95	-11.04	23.95	-274.84	-361.87	5.84	1.78	4.19	0.91
7473.08	422481.00	16.00	160.20	57.43	3.13	-11.37	23.55	-277.71	-1114.97	5.52	1.69	4.23	0.81
7473.15	427241.80	16.00	157.66	70.18	4.78	-9.04	23.97	-265.81	-1321.74	5.47	1.47	4.22	0.77
7473.22	417557.00	16.20	149.82	68.98	1.94	-8.67	23.72	-271.69	-712.88	5.79	2.08	4.18	0.47
7473.28	415780.20	16.20	130.96	70.96	2.95	-6.98	20.49	-297.77	609.19	5.76	1.97	4.20	0.39

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7473.35	421878.20	16.20	123.65	76.60	1.57	-7.00	18.56	-348.76	1929.02	6.33	1.71	4.25	0.37
7473.41	423813.80	16.00	121.62	71.90	0.50	-8.53	19.64	-351.38	2648.35	6.84	1.35	4.30	0.40
7473.48	410664.60	16.20	123.50	62.81	0.42	-9.41	18.29	-359.14	3132.92	6.73	1.54	4.26	0.39
7473.54	405761.00	16.20	130.61	62.07	0.93	-5.71	19.24	-340.58	2011.76	6.08	1.45	4.25	0.28
7473.61	401889.60	16.20	131.66	53.37	0.37	-6.50	19.53	-329.72	2161.38	5.82	1.46	4.21	0.56
7473.67	392795.60	16.20	127.52	60.30	1.17	-5.35	18.40	-351.34	1496.58	5.43	1.43	4.12	0.77
7473.74	391093.40	16.40	124.52	67.12	0.58	-5.72	18.11	-374.28	663.72	5.75	1.23	4.11	0.84
7473.81	385743.00	16.40	125.45	68.14	-0.80	-8.57	19.31	-375.22	800.85	5.72	1.46	4.09	0.90
7473.87	373672.80	16.60	129.83	63.46	-0.30	-12.41	18.19	-383.59	1452.82	5.60	1.51	4.01	1.03
7473.94	357066.20	16.80	135.75	63.63	-1.07	-14.66	19.10	-334.95	-287.31	5.20	1.89	3.96	0.79
7474.00	340849.40	17.00	143.61	56.77	-0.76	-10.61	21.45	-260.95	-348.49	4.75	2.11	3.93	0.55
7474.07	336378.80	17.00	143.82	48.90	-1.58	-7.87	21.24	-234.98	952.06	4.17	2.47	3.82	0.54
7474.13	355691.80	16.80	140.61	47.37	-0.51	-6.61	20.93	-257.17	947.75	5.58	2.09	3.84	0.50
7474.20	360631.00	16.80	135.86	44.48	0.16	-4.19	21.54	-247.49	1560.06	5.74	2.01	3.80	0.44
7474.27	369098.60	16.80	133.97	43.79	1.38	0.80	21.55	-245.06	2971.56	5.65	1.57	3.81	0.37
7474.33	376985.40	16.80	128.77	39.11	2.31	-0.59	17.70	-244.68	2938.71	5.68	2.06	3.73	0.44
7474.40	382183.00	16.60	106.14	58.75	255.87	3.79	16.94	-194.96	3350.54	5.58	1.84	3.73	0.47
7474.46	367169.80	16.80	109.27	60.81	254.70	5.46	18.39	-113.60	1005.39	3.98	2.52	3.59	0.54
7474.53	371485.80	16.60	110.46	68.86	251.91	3.68	18.85	-130.66	-183.75	3.77	2.03	3.72	0.57
7474.59	378377.80	16.40	112.14	77.61	251.85	1.05	21.38	-127.46	-666.33	4.08	2.72	3.66	0.70
7474.66	385502.40	16.20	91.14	93.26	499.41	6.09	22.70	-91.92	-1582.23	4.10	2.28	3.79	0.67
7474.72	360545.40	16.60	100.59	70.87	249.96	2.12	21.82	-99.46	-3325.01	3.61	5.12	3.47	3.87
7474.79	368404.20	16.40	87.79	73.41	249.86	2.24	21.11	-130.18	-892.20	3.69	4.42	3.67	4.55
7474.86	339582.00	16.80	80.06	81.48	251.91	4.22	18.57	-131.12	-1913.76	3.79	4.40	3.58	5.80
7474.92	330499.20	17.00	78.71	79.29	249.88	5.35	16.23	-151.36	-2153.39	3.90	3.60	3.62	6.94
7474.99	321158.80	17.20	104.15	61.33	0.57	2.71	18.36	-206.53	-768.59	3.96	3.26	3.61	6.98
7475.05	338359.20	17.00	119.33	67.49	-1.01	2.35	19.40	-262.77	-213.82	4.31	0.18	3.99	3.97
7475.12	342408.80	17.00	129.89	65.70	0.39	4.01	17.72	-277.15	-1290.33	4.43	0.15	3.99	3.22
7475.18	371942.40	16.60	133.11	56.79	-0.45	5.36	20.26	-256.91	-431.06	4.67	0.17	4.09	1.94
7475.25	381287.40	16.40	128.91	51.12	0.25	5.82	19.82	-261.09	35.92	4.67	0.26	4.14	1.23
7475.31	391896.80	16.20	120.61	49.74	1.15	2.83	16.89	-229.70	-261.60	4.72	0.50	4.04	2.98
7475.38	401362.00	16.00	115.27	46.78	-0.79	2.32	16.20	-239.60	229.38	5.02	0.57	3.98	4.19
7475.45	394731.40	16.20	108.37	51.83	-2.16	-1.21	15.66	-228.93	-1051.14	4.90	0.61	3.88	7.05

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7475.51	392981.40	16.40	99.47	56.00	-2.12	-6.90	17.27	-246.15	-853.16	4.55	0.83	3.74	10.68
7475.58	435587.80	16.00	91.48	179.39	-14.46	16.84	7.04	-1232.84	10631.64	16.27	0.84	2.99	10.02
7475.64	442466.00	16.00	106.63	186.86	-13.50	17.91	9.26	-1260.53	10177.37	16.11	0.59	3.17	8.34
7475.71	449288.60	16.00	111.17	187.52	-13.33	19.50	9.10	-1249.34	9596.28	15.70	0.52	3.28	6.83
7475.77	461685.60	15.80	119.87	186.74	-12.64	23.32	9.76	-1259.91	12239.00	15.80	0.51	3.39	4.18
7475.84	473684.60	15.60	127.75	179.09	-11.53	27.89	7.49	-1249.00	13665.34	16.28	0.29	3.52	1.26
7475.91	444850.80	16.00	138.51	57.40	1.84	5.63	18.97	-235.56	3003.76	4.64	0.19	4.24	1.89
7475.97	442534.20	16.00	129.03	53.96	2.19	7.43	17.30	-244.34	4197.58	4.70	0.19	4.23	1.95
7476.04	441556.00	16.00	128.08	57.08	3.97	8.27	16.91	-243.35	5186.35	4.90	0.21	4.22	2.46
7476.10	433924.40	16.00	128.19	52.01	3.70	4.62	16.19	-231.82	4020.94	4.65	0.18	4.20	2.34
7476.17	433642.20	16.00	141.52	56.53	4.01	-0.05	15.86	-229.33	2983.87	4.39	0.27	4.28	1.67
7476.23	430775.40	16.00	142.18	59.41	3.78	-5.72	14.50	-243.90	2869.47	4.21	0.26	4.39	1.12
7476.30	433624.40	16.00	140.94	59.44	2.52	-12.26	14.19	-251.70	1259.46	4.47	0.25	4.48	0.90
7476.36	431395.00	16.00	139.64	56.84	2.21	-13.60	14.63	-252.85	1098.00	4.63	0.28	4.46	0.62
7476.43	425840.80	16.20	135.47	55.97	1.38	-11.93	12.57	-269.01	862.67	4.71	0.54	4.43	0.56
7476.50	412487.60	16.40	123.45	53.83	3.98	-12.91	12.69	-261.03	1227.86	4.51	0.78	4.36	0.53
7476.56	408808.20	16.40	130.57	57.86	3.62	-7.74	13.17	-295.59	1465.47	5.36	0.79	4.39	0.67
7476.63	416096.80	16.40	122.95	62.65	2.43	-4.28	14.67	-281.33	3632.23	5.92	0.87	4.31	1.18
7476.69	423935.20	16.40	112.24	65.86	2.03	-4.75	12.63	-266.49	3437.87	6.95	1.74	4.24	1.32
7476.76	439730.00	16.20	90.12	74.14	246.93	0.56	15.54	-209.61	3977.31	7.87	1.52	4.29	1.36
7476.82	449982.20	16.00	87.17	75.17	243.23	4.16	15.28	-247.15	3634.78	8.65	1.26	4.33	1.48
7476.89	450770.40	16.00	76.79	65.51	242.27	2.75	13.24	-235.47	3718.79	7.98	1.27	4.27	1.56
7476.96	443762.40	16.00	82.27	60.10	242.16	1.39	12.11	-218.86	2964.70	7.49	1.22	4.26	1.42
7477.02	446491.40	16.00	88.24	58.92	243.23	0.38	15.67	-272.11	2740.33	7.24	0.46	4.39	1.30
7477.09	445508.40	16.00	105.52	64.02	-1.90	-4.11	15.43	-351.07	4747.55	7.52	0.54	4.41	1.35
7477.15	445018.20	16.00	98.88	65.91	-0.89	-5.01	13.95	-345.64	4235.95	6.95	0.45	4.45	1.16
7477.22	434980.40	16.00	90.75	66.31	0.24	-3.52	14.69	-314.81	1707.86	6.49	0.44	4.44	0.96
7477.28	423113.40	16.20	84.84	67.99	0.84	-2.04	14.71	-329.10	1904.10	6.05	0.88	4.38	0.72
7477.35	401500.60	16.40	82.27	55.08	-1.07	-2.86	12.48	-273.93	1617.77	4.81	0.78	4.33	0.47
7477.41	381190.20	16.60	86.58	42.16	-0.69	-4.01	11.35	-234.82	-206.31	3.44	0.66	4.35	0.34
7477.48	369767.20	16.80	97.68	34.82	-1.12	-0.34	13.02	-209.97	400.52	3.30	0.70	4.32	0.37
7477.55	362129.20	17.00	108.92	28.07	-2.72	0.97	14.01	-198.09	1301.02	3.32	0.71	4.36	0.42
7477.61	354263.80	17.00	115.23	18.35	-1.74	1.68	14.24	-202.28	28.78	3.45	0.38	4.38	0.33

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7477.68	368130.60	16.80	125.66	27.60	0.53	0.75	15.78	-245.40	1069.32	5.12	0.33	4.42	0.36
7477.74	366785.40	16.80	104.24	44.33	337.48	5.95	16.65	-205.13	434.87	5.53	0.39	4.36	0.37
7477.81	354511.60	16.80	98.14	44.92	336.82	3.28	15.59	-202.35	590.76	5.47	0.35	4.31	0.36
7477.87	347173.20	16.80	93.08	47.93	338.05	2.17	13.61	-216.89	606.06	5.40	0.34	4.11	0.31
7477.94	345798.60	16.80	93.28	54.64	336.89	4.77	13.17	-207.99	441.94	5.21	0.21	4.07	0.24
7478.01	323767.40	17.00	88.91	53.31	336.96	6.20	12.67	-144.22	-999.82	3.48	0.20	3.96	0.21
7478.07	320404.20	17.00	114.03	37.14	0.87	1.87	12.50	-191.08	-1007.66	3.12	0.14	3.94	0.21
7478.14	329322.00	17.00	120.61	40.08	2.79	2.24	12.75	-203.55	108.13	3.47	0.46	3.99	0.21
7478.20	348362.20	16.80	119.72	44.87	2.61	0.40	14.15	-228.86	765.22	4.18	0.49	4.13	0.32
7478.27	352711.60	16.80	102.04	38.01	1.85	-4.07	14.88	-221.08	114.98	4.20	0.60	4.10	0.81
7478.33	374877.80	16.60	95.04	36.93	3.11	-3.83	14.87	-264.84	-824.75	4.77	0.60	4.18	2.10
7478.40	388577.40	16.40	90.46	36.86	2.74	-3.00	14.26	-286.69	-804.35	5.25	0.72	4.25	2.15
7478.46	369714.20	16.60	82.92	29.81	2.18	-4.61	12.93	-276.77	-1121.33	4.91	1.90	4.02	2.36
7478.53	315702.60	17.20	88.47	35.51	3.46	-2.46	12.59	-224.42	-4399.37	4.27	2.12	3.88	2.34
7478.60	288103.40	17.40	100.77	54.04	7.42	-1.68	10.34	-200.39	-5881.63	4.81	3.19	3.67	3.39
7478.66	246459.80	17.80	105.93	50.58	5.64	-7.32	10.33	-173.05	-4960.94	4.70	3.91	3.50	2.47
7478.73	228740.00	18.00	108.45	45.51	7.38	-9.87	10.89	-131.04	-4256.30	4.44	4.28	3.32	2.65
7478.79	245268.20	17.80	113.63	45.13	6.87	-8.83	12.17	-110.42	-4745.13	4.37	2.80	3.47	2.45
7478.86	283783.80	17.40	113.55	45.56	8.62	-9.73	13.71	-125.40	-1616.35	4.38	2.63	3.56	2.43
7478.92	321324.00	17.00	119.18	36.94	5.71	-7.60	14.53	-172.91	-57.15	3.98	1.52	3.84	0.95
7478.99	356348.80	16.60	119.88	40.57	5.29	-2.92	14.44	-195.51	272.36	3.67	0.80	4.04	0.63
7479.06	376788.60	16.40	117.88	44.66	4.03	-1.16	13.77	-210.23	-251.28	3.89	0.38	4.24	0.47
7479.12	388975.20	16.20	114.40	53.73	2.72	-0.65	12.04	-253.16	-48.28	4.29	0.38	4.37	0.50
7479.19	397135.80	16.20	94.39	52.76	228.34	4.45	10.32	-219.97	-668.93	4.34	0.30	4.44	0.43
7479.25	390246.40	16.40	86.10	48.84	228.11	1.94	11.20	-206.25	1091.52	4.32	0.38	4.41	0.44
7479.32	372588.20	16.60	75.27	46.90	228.50	2.08	9.69	-172.93	866.71	4.27	0.58	4.27	0.41
7479.38	352806.80	16.80	62.85	45.46	229.65	0.95	9.88	-169.16	759.87	3.86	0.78	4.13	0.34
7479.45	334415.20	17.00	54.60	41.00	231.10	-0.57	10.35	-141.47	-480.42	3.37	0.79	3.95	0.27
7479.51	315763.80	17.20	62.71	31.06	4.12	-6.56	9.79	-172.42	-1179.33	3.11	1.04	3.79	0.29
7479.58	294800.60	17.40	60.18	30.60	5.25	-4.63	8.54	-172.19	-2807.05	2.83	1.07	3.68	0.28
7479.65	283990.60	17.60	62.54	26.73	5.60	-1.53	8.38	-185.74	-3594.79	2.66	1.05	3.65	0.27
7479.71	273144.00	17.80	65.30	28.43	3.43	-2.20	7.24	-177.12	-4679.56	2.40	0.95	3.57	0.27
7479.78	270227.20	17.80	65.68	32.47	2.91	0.15	8.11	-151.44	-4450.66	2.39	1.29	3.53	0.29

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7479.84	267669.00	17.80	63.63	34.60	-0.39	-2.72	8.50	-165.75	-3235.92	2.44	1.55	3.55	0.31
7479.91	285900.20	17.60	62.90	41.21	-2.27	-2.62	8.15	-177.84	-2338.26	2.68	1.52	3.65	0.36
7479.97	304187.40	17.40	58.41	41.00	-2.80	-4.96	7.77	-165.26	142.34	2.92	1.78	3.68	0.39
7480.04	312298.20	17.20	54.56	41.34	-3.05	-3.48	5.64	-169.74	873.25	3.43	4.55	3.56	0.48
7480.10	333951.20	17.00	52.50	44.83	-2.83	-4.37	3.09	-226.68	2454.98	4.63	4.92	3.68	0.65
7480.17	351544.40	16.80	52.14	50.30	-1.27	-1.28	1.53	-217.05	2421.39	4.84	4.71	3.75	0.70
7480.24	346752.60	16.80	50.13	42.52	0.50	-3.65	1.26	-168.41	1323.41	4.97	6.91	3.51	0.96
7480.30	341948.20	16.80	49.28	47.12	0.18	-4.09	1.13	-176.59	630.42	4.90	7.11	3.47	1.29
7480.37	366697.40	16.60	48.58	53.14	1.87	-6.37	3.01	-168.01	-405.79	4.53	6.14	3.53	1.70
7480.43	371550.20	16.60	41.16	56.76	1.36	-5.93	5.75	-141.39	-2751.89	3.33	6.55	3.18	7.70
7480.50	388024.00	16.40	35.34	63.58	0.61	-8.30	5.49	-149.19	-4234.39	3.00	6.31	2.79	15.98
7480.56	403776.80	16.20	30.05	74.57	0.51	-8.18	5.80	-170.16	-3299.36	2.59	4.86	2.64	22.73
7480.63	421195.80	16.00	24.76	78.21	1.21	-10.41	4.91	-160.45	-6849.66	2.32	4.45	2.29	30.87
7480.70	399044.20	16.20	18.84	77.84	1.24	-12.83	5.51	-172.28	-7489.34	2.12	2.48	2.05	38.71
7480.76	371791.60	16.40	18.16	68.19	1.62	-19.24	2.20	-165.40	-4502.97	2.07	1.35	2.07	39.57
7480.83	340899.20	16.80	16.30	61.23	3.84	-20.14	1.86	-160.30	-4712.74	1.97	1.29	2.15	36.85
7480.89	302754.60	17.20	13.95	51.14	2.82	-17.50	1.13	-165.14	-6387.79	1.83	0.68	2.41	30.28
7480.96	279730.40	17.40	12.57	43.95	0.07	-15.96	2.38	-170.68	-3350.58	2.01	0.59	2.83	23.01
7481.02	278455.60	17.40	10.61	44.20	-1.75	-14.03	1.94	-176.53	-805.47	2.02	1.63	3.06	16.68
7481.09	280936.20	17.40	7.91	50.75	-2.38	-11.88	3.59	-196.57	-3519.18	1.90	1.63	3.15	13.41
7481.15	283617.00	17.20	5.96	51.58	-3.77	-9.28	3.50	-187.90	-1863.60	2.03	1.66	3.20	12.99
7481.22	295583.60	17.20	5.04	58.66	-2.98	-14.51	3.19	-186.36	-1287.61	1.90	1.37	3.08	17.87
7481.29	266076.20	17.60	3.14	84.07	-0.56	-11.39	2.85	-157.44	-1334.35	1.62	2.11	2.84	20.85
7481.35	259229.00	17.80	2.25	77.26	0.32	-8.96	2.58	-173.51	-1178.70	1.52	1.46	2.89	21.30
7481.42	263833.00	17.80	3.24	74.65	0.67	-6.33	1.73	-169.11	-305.61	1.77	1.56	3.00	19.05
7481.48	266093.00	17.80	3.64	65.60	2.27	-7.69	1.76	-177.15	-260.17	2.20	2.13	3.06	15.95
7481.55	283313.40	17.60	4.32	60.54	2.69	-5.78	2.90	-168.79	1377.07	2.76	2.65	3.07	14.66
7481.61	325870.80	17.20	6.51	48.54	2.89	-11.19	1.90	-234.59	2471.04	3.20	1.83	3.28	12.48
7481.68	339983.20	17.00	6.36	48.71	3.27	-15.37	2.38	-229.83	828.84	3.33	1.48	3.36	12.43
7481.75	351669.60	17.00	8.65	52.00	3.76	-17.86	3.65	-223.05	1223.51	3.93	3.39	3.23	13.04
7481.81	372976.60	16.80	10.97	59.61	2.69	-16.71	4.75	-261.45	2711.39	4.07	2.98	3.12	16.51
7481.88	372708.00	16.80	11.48	54.69	131.81	-9.45	6.47	-234.00	1491.64	4.72	3.02	3.13	15.90
7481.94	358137.20	16.80	15.70	40.76	129.58	-3.92	8.45	-183.54	-185.80	4.88	3.70	2.97	15.79

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7482.01	340885.80	17.00	21.10	35.13	129.51	-0.35	8.41	-162.30	1396.32	5.44	3.99	3.01	13.97
7482.07	338982.40	17.00	22.76	127.12	128.18	15.36	8.66	-732.04	8597.69	12.72	2.59	2.55	11.81
7482.14	334258.60	17.00	31.81	121.77	127.33	13.38	8.82	-692.16	6876.27	12.54	3.13	2.76	6.46
7482.20	345436.20	16.80	32.66	131.02	225.10	14.46	7.53	-690.96	8482.81	12.12	3.21	2.92	3.54
7482.27	371271.80	16.60	40.20	137.97	225.74	13.61	6.85	-702.46	8554.32	12.52	3.82	2.97	2.59
7482.34	407785.40	16.20	52.58	151.96	227.61	13.10	12.00	-713.88	7209.68	12.53	4.25	2.85	4.15
7482.40	395754.40	16.20	63.83	49.92	228.30	0.19	13.85	-106.08	17.48	4.79	4.49	3.44	4.26
7482.47	378549.40	16.40	67.53	43.58	230.47	1.38	16.25	-120.76	278.28	4.59	4.21	3.44	4.29
7482.53	359511.60	16.60	85.91	35.76	2.05	-3.71	17.61	-171.05	-1293.09	4.77	4.55	3.38	4.17
7482.60	329277.00	17.00	92.71	34.55	3.48	-4.23	19.19	-165.17	490.05	4.19	5.98	3.25	3.29
7482.66	292171.40	17.40	93.81	22.07	1.32	-3.26	14.24	-159.81	711.86	4.10	6.32	3.23	1.28
7482.73	281596.00	17.60	97.03	25.44	2.03	-3.16	14.27	-160.14	417.44	4.07	6.07	3.24	1.27
7482.80	276160.00	17.80	99.38	31.39	1.26	-0.04	11.77	-135.78	-890.24	4.06	8.00	3.03	1.19
7482.86	269885.00	17.80	94.43	33.84	1.93	-2.64	10.88	-139.39	-886.79	3.62	7.05	3.11	0.75
7482.93	272060.00	17.80	88.60	31.16	0.16	-4.45	11.31	-147.85	-2946.28	3.50	6.05	3.14	0.68
7482.99	273785.40	17.80	86.28	35.93	0.71	-6.11	11.27	-133.67	-3208.62	3.26	8.60	2.88	0.61
7483.06	300356.40	17.40	85.07	36.60	1.84	-5.33	10.11	-125.33	-3340.47	3.37	12.40	2.56	0.71
7483.12	328844.40	17.00	87.63	40.83	1.16	-6.57	11.65	-144.56	-1685.25	3.48	10.02	2.85	0.95
7483.19	350977.40	16.80	92.80	37.51	2.27	-4.54	13.38	-131.48	-1833.77	3.50	9.99	2.92	1.19
7483.25	373131.00	16.40	99.62	40.37	4.27	-1.34	11.82	-131.80	-810.51	3.60	9.59	3.00	1.25
7483.32	396068.40	16.20	105.86	37.58	4.24	-0.10	11.70	-140.09	130.66	3.58	7.74	3.26	1.25
7483.39	397404.20	16.20	91.00	50.18	224.19	4.21	11.31	-141.22	1209.26	3.78	5.40	3.48	1.30
7483.45	395835.60	16.20	92.66	51.05	223.50	3.16	11.13	-144.11	631.22	3.95	5.56	3.44	1.08
7483.52	392722.60	16.20	92.78	55.25	221.93	-1.05	10.45	-145.89	1901.63	4.38	6.81	3.27	1.05
7483.58	394145.20	16.20	97.02	55.99	221.24	-3.90	12.48	-159.83	1996.27	4.57	6.19	3.35	1.00
7483.65	393529.40	16.20	100.47	53.46	220.95	-1.94	13.76	-163.97	1920.86	4.74	4.86	3.46	0.99
7483.71	383902.80	16.40	118.73	34.07	1.33	-5.44	15.84	-190.09	-654.70	4.27	3.32	3.45	0.79
7483.78	365306.20	16.60	118.91	29.66	1.39	-2.50	16.35	-173.28	-510.12	4.16	4.85	3.31	0.66
7483.85	348434.80	16.80	99.74	45.33	244.24	5.49	14.54	-131.91	-1661.35	3.75	4.74	3.26	0.57
7483.91	334537.60	17.00	100.28	40.99	243.24	6.16	15.14	-117.79	-2654.76	3.43	4.47	3.24	0.56
7483.98	323595.80	17.00	97.07	42.31	243.17	2.86	14.25	-122.57	-3427.45	3.20	4.98	3.16	0.51
7484.04	311084.40	17.00	96.29	43.01	241.88	2.94	12.95	-84.22	-2993.25	3.57	11.20	2.78	0.67
7484.11	316853.40	17.00	95.01	46.67	240.95	0.89	12.99	-91.79	-3004.60	3.33	10.23	2.88	0.59

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7484.17	325512.80	17.00	110.68	28.30	-1.69	-6.73	15.68	-112.99	-3003.02	3.45	9.40	3.03	0.58
7484.24	316454.20	17.20	102.34	35.58	-0.73	-3.14	15.71	-87.16	-293.09	4.17	12.07	2.86	0.87
7484.30	325499.40	17.20	97.37	39.31	-1.72	-0.22	16.08	-92.60	91.79	4.28	11.37	2.98	0.85
7484.37	330302.40	17.20	95.12	44.31	-1.77	1.91	16.46	-121.39	1452.45	3.92	7.16	3.26	0.68
7484.44	331493.00	17.20	92.73	46.00	-0.12	5.19	15.11	-80.75	782.86	4.06	9.09	3.09	0.72
7484.50	334540.60	17.20	93.43	48.63	-0.18	7.50	12.71	-96.33	856.94	3.76	10.14	3.04	0.64
7484.57	344575.40	17.00	99.19	43.68	0.26	4.14	10.61	-82.63	-481.15	3.13	13.26	2.86	0.41
7484.63	319945.60	17.20	101.26	51.46	2.01	5.34	12.22	-29.16	-938.18	3.10	19.29	2.31	0.51
7484.70	323219.80	17.20	103.51	46.30	2.31	1.76	12.46	-43.66	-1046.27	3.03	16.74	2.55	0.52
7484.76	316537.80	17.20	109.26	35.49	6.51	0.70	12.84	-87.34	-533.14	2.91	14.43	2.69	0.52
7484.83	303932.80	17.20	114.93	31.77	6.39	-0.63	12.72	-86.78	-103.96	2.92	13.50	2.68	0.60
7484.90	297361.20	17.20	112.97	29.60	4.98	0.86	12.29	-141.87	-446.27	2.74	7.65	3.01	0.63
7484.96	309680.60	17.00	115.74	29.65	4.90	-0.06	12.80	-188.13	64.12	2.70	1.92	3.45	0.60
7485.03	302150.80	17.00	97.83	50.08	243.49	4.77	12.63	-157.26	-1060.32	2.66	2.15	3.38	0.67
7485.09	298850.60	17.00	96.13	58.32	238.32	5.09	12.77	-145.34	-1440.51	2.64	2.04	3.43	0.67
7485.16	305860.80	17.00	96.56	65.13	239.73	6.99	12.44	-146.81	-1881.59	2.50	1.82	3.50	0.58
7485.22	304615.80	17.00	95.57	58.49	240.13	6.24	12.26	-147.35	-2970.87	2.52	1.52	3.59	0.46
7485.29	280100.00	17.40	88.48	56.51	239.70	6.00	10.44	-143.31	-4087.39	2.42	1.13	3.64	0.37
7485.35	267959.80	17.60	107.46	40.10	0.86	0.60	8.91	-168.18	-3619.37	2.54	1.77	3.62	0.36
7485.42	257303.80	17.80	106.23	37.09	1.41	-3.89	7.99	-168.65	-3950.98	2.49	1.87	3.53	0.39
7485.49	240846.20	18.00	99.65	33.63	1.94	-6.05	9.17	-193.80	-4022.63	2.59	1.86	3.48	0.44
7485.55	234152.60	18.20	100.69	40.53	3.66	-6.98	9.62	-192.11	-5030.32	2.61	1.86	3.46	0.49
7485.62	245927.40	18.00	106.14	36.53	4.28	-9.21	9.40	-189.54	-4224.84	2.69	1.92	3.45	0.59
7485.68	242004.00	18.00	86.49	47.06	205.96	-3.62	9.46	-164.85	-5252.81	2.64	1.26	3.44	0.64
7485.75	235792.20	18.00	83.81	48.10	204.75	-1.56	11.66	-194.59	-5143.54	2.56	1.24	3.53	0.57
7485.81	231605.20	18.00	85.92	48.78	202.62	0.97	13.11	-181.30	-4426.77	2.76	1.28	3.51	0.69
7485.88	213896.00	18.20	81.54	54.13	199.84	3.85	14.08	-170.43	-3084.10	2.66	1.98	3.43	0.85
7485.94	226400.40	18.00	78.71	50.51	197.34	8.00	13.22	-185.59	-2322.16	2.51	2.05	3.48	0.91
7486.01	241863.20	17.80	94.85	39.09	-1.34	2.81	14.06	-229.36	-502.55	2.54	2.16	3.56	0.90
7486.08	254970.80	17.80	95.57	30.80	-0.39	2.93	14.11	-194.33	-159.12	2.53	2.04	3.58	1.02
7486.14	263624.40	17.80	95.10	23.46	1.55	2.19	11.35	-179.91	35.86	2.26	2.22	3.62	1.06
7486.21	308547.40	17.20	100.91	23.20	3.71	-1.27	9.66	-196.13	935.95	2.30	1.50	3.77	1.05
7486.27	329743.80	17.00	103.37	27.86	7.28	-4.63	11.11	-194.67	462.51	2.52	1.32	3.76	1.14

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7486.34	350004.80	16.80	107.55	31.47	5.08	-5.50	10.43	-186.84	-323.69	2.53	1.01	3.83	1.11
7486.40	371441.60	16.40	109.98	39.74	6.10	-8.21	9.33	-215.37	143.81	2.75	0.94	3.85	1.15
7486.47	395881.40	16.00	106.90	47.17	5.55	-8.16	10.95	-224.28	-370.44	3.09	0.79	3.87	1.18
7486.54	401384.00	16.00	102.95	45.79	4.71	-7.40	12.96	-207.73	440.96	3.23	0.69	3.90	1.07
7486.60	400576.60	16.00	101.70	43.62	2.98	-6.01	10.65	-177.67	1430.94	3.46	0.69	3.92	1.07
7486.67	358007.20	16.40	81.57	55.64	300.55	0.82	10.18	-141.48	2256.28	3.73	0.79	3.94	1.05
7486.73	355547.80	16.60	79.04	57.85	300.30	5.23	9.43	-132.45	1892.17	3.63	0.67	4.02	0.89
7486.80	349471.00	16.80	80.13	56.32	299.80	6.35	8.01	-135.23	2457.98	3.44	0.38	4.09	0.70
7486.86	328607.80	17.00	64.07	64.26	526.23	11.58	7.46	-97.43	294.02	3.36	0.54	4.05	0.69
7486.93	328483.80	17.00	60.33	60.59	526.96	9.50	8.00	-130.00	-151.57	3.23	0.46	4.14	0.56
7486.99	371066.00	16.60	75.52	46.32	228.66	3.75	6.80	-180.78	-587.39	3.32	0.38	4.19	0.57
7487.06	370155.80	16.60	72.18	44.82	227.98	-0.99	7.32	-181.90	-35.44	3.51	0.38	4.22	0.59
7487.13	374600.20	16.60	70.60	41.31	227.28	0.34	7.47	-170.40	-1019.09	3.72	0.42	4.24	0.56
7487.19	388267.40	16.60	84.69	28.22	0.34	-2.85	6.18	-223.62	474.73	4.47	0.64	4.21	0.70
7487.26	386687.40	16.60	84.09	38.16	-0.41	-5.75	6.44	-240.96	568.02	4.47	0.71	4.17	0.65
7487.32	383842.20	16.80	83.31	40.02	-1.11	-6.40	8.18	-227.86	-39.10	4.18	0.78	4.13	0.76
7487.39	379571.00	16.80	83.35	33.89	-1.38	-0.73	8.13	-216.18	-67.69	4.04	1.94	3.89	1.04
7487.45	367113.00	16.80	83.14	36.55	-1.53	-1.79	8.24	-201.08	227.00	3.84	1.94	3.84	1.08
7487.52	348629.80	16.80	79.72	40.42	0.02	-4.01	8.35	-202.08	-713.34	3.12	1.59	3.84	0.94
7487.59	327757.00	17.00	81.54	29.43	-0.43	0.53	8.77	-188.57	-1295.66	2.95	1.51	3.80	1.23
7487.65	303196.00	17.20	67.23	38.39	179.76	6.39	9.35	-151.41	-10.27	2.83	1.56	3.74	1.13
7487.72	282803.80	17.40	67.90	46.65	180.20	2.87	9.05	-141.95	-1021.33	2.63	0.37	3.81	0.91
7487.78	297263.60	17.20	67.44	45.08	179.82	2.28	10.23	-176.22	424.59	3.88	0.66	3.75	1.64
7487.85	306759.60	17.20	71.20	41.17	179.86	2.50	9.95	-150.03	585.01	3.81	0.62	3.76	1.69
7487.91	309339.80	17.20	70.78	42.17	179.43	3.32	9.80	-143.02	592.86	3.91	0.57	3.78	1.43
7487.98	328483.40	17.00	81.98	30.60	-0.44	-1.26	9.68	-189.97	-462.60	4.35	0.61	3.76	1.53
7488.04	347245.80	16.80	79.67	30.55	0.07	2.37	9.29	-192.82	1083.81	4.77	0.68	3.80	1.60
7488.11	340321.20	17.00	78.71	36.36	1.58	2.35	8.11	-189.63	549.81	4.17	0.62	3.85	1.06
7488.18	346071.40	17.00	76.24	36.08	0.28	1.25	7.40	-213.55	1619.31	4.52	0.98	3.82	1.08
7488.24	353667.40	17.00	72.76	43.39	0.76	-1.99	7.35	-174.25	1370.46	4.47	1.58	3.76	1.10
7488.31	339742.60	17.20	74.84	45.89	1.24	-2.09	6.25	-138.09	966.76	4.31	2.14	3.71	1.03
7488.37	345607.00	17.20	77.10	39.10	1.12	-2.27	6.35	-149.64	1264.26	4.00	2.08	3.77	0.88
7488.44	345121.20	17.20	80.58	32.93	0.70	-0.39	7.28	-133.70	1025.07	3.83	3.04	3.62	0.91

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7488.50	344985.20	17.20	82.62	30.23	1.50	1.07	7.93	-111.66	96.88	3.58	2.95	3.71	0.89
7488.57	353876.00	17.20	83.91	26.41	2.87	4.15	10.32	-148.88	328.20	3.49	2.56	3.75	0.88
7488.64	374036.00	17.00	85.62	21.53	2.58	3.25	11.64	-175.29	398.55	3.37	1.84	3.88	0.84
7488.70	367212.20	17.00	85.95	28.87	3.38	3.69	10.28	-164.46	-983.57	3.51	2.14	3.79	0.93
7488.77	378104.00	16.80	88.47	36.52	4.56	0.35	10.85	-158.99	125.56	3.68	1.49	3.90	0.85
7488.83	385343.40	16.60	89.65	42.73	3.38	-1.15	11.10	-181.85	420.59	3.64	1.32	3.88	0.90
7488.90	387850.60	16.40	93.75	45.20	2.32	-3.98	8.98	-196.15	848.64	3.71	1.18	3.91	1.01
7488.96	384338.60	16.40	92.87	37.14	3.21	-3.64	7.71	-202.18	1969.38	3.72	1.72	3.84	1.19
7489.03	389656.40	16.40	89.71	34.78	2.89	-7.38	7.94	-204.14	1202.37	3.51	1.44	3.91	1.26
7489.09	389411.40	16.40	83.16	30.79	2.37	-7.42	7.29	-213.39	469.19	2.76	1.14	3.97	1.22
7489.16	388405.60	16.40	86.50	29.78	3.05	-7.63	6.81	-196.11	737.78	2.83	1.23	3.99	1.20
7489.23	388277.80	16.40	86.79	28.78	3.41	-4.62	6.66	-190.85	1022.20	2.96	1.68	3.97	1.16
7489.29	394587.20	16.20	91.09	44.15	3.06	-5.22	7.06	-191.55	847.98	3.10	1.18	4.08	0.98
7489.36	397504.40	16.20	96.15	43.96	3.29	-4.15	8.29	-195.82	2520.41	3.36	2.15	4.02	0.90
7489.42	392626.40	16.20	99.09	42.06	3.08	-1.35	8.28	-198.81	1995.13	3.84	2.16	4.01	0.86
7489.49	392317.20	16.20	95.81	44.11	3.00	-0.67	9.93	-176.92	2083.25	4.12	2.25	3.96	0.84
7489.55	394994.00	16.20	95.71	40.35	2.29	-0.55	11.27	-167.14	2071.18	4.00	1.75	4.01	0.74
7489.62	385802.40	16.40	94.14	36.60	1.51	1.24	11.29	-189.04	1350.12	4.10	2.16	3.98	0.75
7489.69	390290.40	16.20	94.07	37.94	0.14	0.38	10.16	-189.62	138.33	4.19	1.26	4.08	0.73
7489.75	392974.20	16.20	95.66	38.69	-0.58	-3.17	10.06	-188.75	-183.97	3.96	1.10	4.10	0.69
7489.82	388667.60	16.40	92.90	39.98	0.08	1.11	9.38	-209.50	-752.29	3.77	0.87	4.16	0.66
7489.88	382803.40	16.60	89.74	46.15	1.13	1.58	8.59	-196.64	-1521.51	3.66	0.90	4.12	0.81
7489.95	392876.60	16.40	85.90	44.96	2.56	-0.75	8.87	-177.64	-73.86	3.44	0.44	4.17	0.99
7490.01	396701.00	16.40	82.70	45.08	3.49	-0.27	9.30	-201.47	2023.02	3.48	0.54	4.18	1.47
7490.08	400335.60	16.40	78.43	49.86	4.07	2.11	9.64	-215.66	1854.25	3.32	0.43	4.20	1.99
7490.14	404224.00	16.20	78.31	48.36	2.46	-2.80	8.32	-243.96	1898.40	3.17	0.41	4.16	2.41
7490.21	409199.00	16.00	78.88	53.28	1.60	-6.00	8.28	-246.41	2351.93	3.48	0.48	4.17	2.63
7490.28	406130.80	16.20	79.76	52.91	0.35	-4.47	8.05	-240.31	1239.19	3.47	0.48	4.15	2.50
7490.34	401828.80	16.20	79.86	55.70	-1.22	-4.07	8.57	-237.32	897.48	3.59	0.43	4.18	2.09
7490.41	383549.00	16.40	82.69	49.02	-1.15	-4.26	8.19	-225.55	2249.83	4.03	0.86	4.13	1.70
7490.47	377062.60	16.60	87.39	46.60	0.92	-4.92	10.37	-203.78	1460.17	4.72	1.59	4.08	1.62
7490.54	367313.60	16.80	87.41	35.17	0.34	-4.19	9.51	-196.91	2123.92	5.16	2.58	3.92	1.65
7490.60	351246.00	16.80	86.84	29.12	0.43	-6.29	10.75	-201.92	1545.62	5.08	2.81	3.83	1.65

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7490.67	323097.60	17.20	92.45	26.36	1.13	-10.43	11.43	-168.97	106.46	5.21	6.48	3.48	1.77
7490.73	262819.60	17.80	73.48	97.23	2.62	-10.91	22.24	-121.61	-4330.56	4.59	8.73	2.91	2.28
7490.80	194957.00	18.40	52.78	181.22	-2.74	-6.45	17.71	-82.60	-15151.48	3.57	21.12	2.21	2.39
7490.87	190716.00	18.40	59.13	182.41	-0.59	-4.82	19.67	-104.76	-16578.34	2.86	20.01	2.33	2.07
7490.93	193913.60	18.40	72.89	183.71	-0.61	-2.00	19.54	-99.25	-14772.10	2.87	19.77	2.36	2.31
7491.00	206498.60	18.20	73.28	182.81	-1.32	0.44	20.05	-92.62	-15398.61	2.48	16.08	2.64	2.20
7491.06	269749.60	17.60	98.60	114.91	-4.62	0.85	9.60	-125.08	-11564.29	2.86	13.44	3.22	1.53
7491.13	336632.80	17.00	122.97	39.16	-0.74	-0.04	13.61	-178.18	-588.11	3.53	0.37	3.97	1.05
7491.19	343733.40	17.00	120.45	37.74	-2.50	-0.50	12.60	-167.60	-1296.44	3.79	0.39	4.03	1.04
7491.26	355618.20	17.00	107.94	44.76	-3.13	3.85	12.03	-176.49	-3530.65	4.08	0.40	4.06	0.91
7491.33	372923.80	16.80	107.90	44.36	-1.59	4.44	13.14	-194.65	-1021.98	4.80	1.67	3.96	1.22
7491.39	392970.20	16.60	103.73	47.79	-1.07	5.92	14.81	-248.46	-1543.09	5.21	1.63	3.94	2.24
7491.46	407589.20	16.40	102.11	49.05	-1.49	3.69	16.65	-218.76	-851.98	5.55	1.59	3.96	2.59
7491.52	409209.60	16.40	84.65	63.86	202.23	8.30	16.16	-182.41	542.05	5.48	1.60	3.95	2.56
7491.59	409426.60	16.40	90.78	57.37	203.20	3.08	17.31	-158.17	2386.49	5.35	1.59	3.97	2.43
7491.65	406646.20	16.40	89.52	55.16	202.60	3.88	14.76	-186.60	417.19	4.81	0.24	4.09	2.24
7491.72	398081.00	16.40	92.75	51.80	202.71	4.01	13.43	-170.51	-21.59	4.52	0.24	4.08	1.48
7491.78	389315.80	16.40	92.50	44.96	204.60	4.46	10.92	-193.80	86.89	4.06	0.42	4.03	1.22
7491.85	389362.20	16.40	111.51	45.53	1.80	-3.37	10.42	-248.01	301.01	4.12	0.39	4.02	1.18
7491.92	388529.60	16.40	109.91	60.78	1.45	-5.23	7.91	-273.34	-720.37	4.18	0.40	3.96	1.22
7491.98	383697.80	16.60	111.31	70.29	2.19	-7.61	8.96	-244.28	-640.37	3.92	0.38	3.97	1.09
7492.05	377827.20	16.80	106.66	69.29	3.90	-8.79	8.28	-231.77	-461.26	3.63	0.40	4.07	0.78
7492.11	375252.40	17.00	102.78	75.25	3.03	-6.32	9.45	-216.55	-35.15	3.63	0.33	4.10	0.74
7492.18	382410.20	16.80	98.09	67.10	3.21	-2.73	10.03	-197.15	-211.62	3.70	0.45	4.15	0.83
7492.24	389625.00	16.60	93.55	64.78	3.21	-3.74	10.83	-203.24	-48.07	3.78	0.45	4.27	0.78
7492.31	392977.00	16.40	87.84	59.55	3.75	-1.47	9.68	-201.22	1023.31	4.09	0.84	4.27	0.85
7492.38	396762.40	16.20	88.16	62.74	1.80	-1.83	10.39	-179.62	1196.64	4.57	1.13	4.19	1.09
7492.44	400093.20	16.00	87.75	56.36	1.20	-3.36	7.90	-159.77	365.88	4.44	1.02	4.24	1.07
7492.51	396969.20	16.00	90.10	56.92	1.12	-4.88	8.33	-169.43	88.84	4.47	1.15	4.20	1.02
7492.57	392825.00	16.00	89.95	53.53	2.27	-1.41	7.79	-156.24	239.56	4.36	1.15	4.14	0.95
7492.64	390522.80	16.20	90.61	53.07	2.51	2.38	8.87	-177.85	-741.34	4.07	0.77	4.20	0.80
7492.70	389032.20	16.40	90.74	47.62	2.89	4.19	8.35	-187.93	-219.70	3.65	0.49	4.20	0.62
7492.77	388446.20	16.40	88.69	45.19	3.65	2.18	10.93	-221.93	-262.84	3.66	0.43	4.22	0.58

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7492.83	387798.00	16.40	86.61	49.78	3.62	4.19	11.79	-212.81	-652.39	3.47	0.23	4.21	0.56
7492.90	386178.80	16.60	85.31	49.80	2.32	3.37	13.10	-210.81	-645.61	3.51	0.58	4.16	0.59
7492.97	387182.60	16.60	83.66	47.99	1.31	-1.16	13.91	-175.35	285.35	3.60	0.58	4.15	0.61
7493.03	386849.40	16.60	82.33	51.54	2.53	-4.39	15.04	-162.20	-1251.28	3.95	1.92	4.07	0.63
7493.10	381795.80	16.80	81.71	50.93	2.99	-2.22	15.09	-137.82	-1296.57	3.93	2.07	4.01	0.60
7493.16	373013.80	17.00	80.09	40.30	4.75	-5.85	15.88	-117.42	-747.71	4.08	4.00	3.84	0.68
7493.23	366320.80	17.00	83.88	38.47	5.66	-5.22	15.65	-118.30	-765.19	3.86	3.66	3.88	0.66
7493.29	360071.20	17.00	87.44	42.49	5.38	-6.31	13.54	-139.34	-1904.62	3.78	3.66	3.82	0.65
7493.36	349453.00	17.00	88.80	44.67	6.14	-3.24	13.66	-134.06	-622.47	3.73	2.46	3.91	0.56
7493.43	343657.60	17.00	91.82	47.76	5.74	-4.93	12.73	-152.04	-795.48	3.61	2.39	3.85	0.67
7493.49	337453.80	17.00	97.84	44.07	3.65	-2.56	10.99	-176.68	-1245.49	3.20	0.72	3.90	0.61
7493.56	332103.60	17.00	102.84	40.90	3.02	-2.80	12.50	-156.70	-2170.67	3.28	0.74	3.85	0.77
7493.62	322902.40	17.00	106.69	32.03	4.50	-2.26	12.35	-158.76	-3688.81	3.27	0.81	3.80	0.83
7493.69	319827.60	17.00	110.21	28.38	3.82	-1.00	11.41	-134.82	-3679.50	3.48	3.15	3.48	1.25
7493.75	316273.60	17.00	116.43	30.16	2.59	1.60	11.02	-128.05	-3549.33	3.84	3.66	3.46	1.29
7493.82	304033.60	17.20	95.94	40.87	161.56	3.66	10.00	-86.94	-5462.95	4.20	6.38	3.20	3.79
7493.88	303202.80	17.20	89.12	39.98	161.85	4.40	8.57	-83.51	-4701.06	4.04	6.34	3.19	3.65
7493.95	301576.20	17.20	89.44	47.20	160.64	4.15	9.46	-61.78	-3091.02	3.93	6.56	3.15	3.63
7494.02	294475.80	17.40	93.89	43.50	160.02	1.38	9.27	-88.14	-3213.86	3.26	4.31	3.36	3.28
7494.08	282844.20	17.60	95.53	34.67	161.23	-0.33	9.33	-54.17	-3998.60	3.09	6.41	3.12	3.33
7494.15	280763.20	17.60	122.65	29.48	2.19	-3.03	10.79	-91.06	-2616.97	2.80	4.64	3.30	0.81
7494.21	254729.60	17.80	129.73	25.19	1.94	-1.51	10.30	-106.24	-2961.54	2.84	6.39	3.09	0.77
7494.28	257788.40	17.80	135.31	19.47	1.71	3.95	10.49	-110.10	-3313.35	2.92	6.13	3.08	0.75
7494.34	268010.40	17.60	133.02	19.50	1.04	6.18	9.08	-115.46	-3059.86	3.00	5.88	3.08	0.74
7494.41	282374.60	17.40	133.32	23.29	0.75	4.69	10.11	-170.54	-1465.57	3.22	3.48	3.30	0.61
7494.48	289682.60	17.40	128.19	29.66	-0.17	5.85	8.37	-171.35	-162.35	3.24	2.42	3.42	0.68
7494.54	310579.80	17.20	129.57	32.16	0.09	5.68	9.68	-161.40	89.18	3.41	1.05	3.54	0.79
7494.61	305692.40	17.20	127.86	32.05	0.33	-0.62	9.37	-169.96	579.58	3.57	1.18	3.53	0.98
7494.67	289967.20	17.40	126.13	41.18	1.13	-6.81	12.72	-165.16	1130.81	3.55	1.35	3.51	1.31
7494.74	285644.00	17.40	126.50	47.03	1.01	-3.92	13.29	-136.99	876.98	3.41	2.75	3.35	1.53
7494.80	289951.80	17.20	133.93	37.10	1.95	-4.49	16.49	-131.04	536.63	3.57	2.90	3.27	1.77
7494.87	260928.20	17.60	132.33	42.86	1.17	-5.84	13.81	-134.12	324.80	3.49	2.92	3.19	1.96
7494.93	250564.40	17.80	129.00	49.49	0.04	-6.34	13.38	-151.36	534.98	3.38	3.42	3.08	2.07

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7495.00	246193.60	17.80	133.08	45.50	-0.72	-3.45	10.59	-162.90	-1430.19	3.36	3.57	2.98	1.74
7495.07	236792.00	18.00	126.56	44.02	-0.52	-4.85	9.40	-167.78	-2370.23	3.19	2.14	3.09	1.50
7495.13	226961.20	18.20	119.23	45.38	-0.33	-5.16	8.44	-189.28	-2786.22	2.99	1.95	3.10	1.18
7495.20	240451.00	18.00	115.78	43.24	1.79	-6.87	11.70	-202.24	-3633.67	2.89	1.80	3.13	0.93
7495.26	224417.40	18.20	117.06	47.49	3.70	-4.92	11.31	-179.54	-3833.33	2.83	2.45	3.05	0.73
7495.33	210499.80	18.40	93.12	63.52	206.24	0.01	13.34	-142.20	-2605.79	2.72	2.43	3.06	0.74
7495.39	206926.20	18.40	101.68	64.88	206.29	-0.23	12.74	-159.61	-1844.91	2.77	2.44	3.03	0.75
7495.46	211684.80	18.40	104.31	64.97	209.33	1.73	13.25	-157.84	-2001.44	3.08	2.42	3.07	0.78
7495.52	217750.00	18.40	106.96	57.68	208.91	2.13	10.97	-139.12	-2682.35	3.10	2.18	3.05	0.84
7495.59	246789.60	18.00	103.42	54.02	208.04	2.79	11.67	-144.31	-3709.09	3.29	1.03	3.13	1.57
7495.66	291302.20	17.60	120.07	40.74	6.28	-2.35	9.58	-167.70	-3393.55	3.57	1.21	2.96	5.83
7495.72	314513.20	17.40	121.24	37.71	34.66	-4.03	9.96	-159.47	-3207.66	3.77	1.27	3.01	5.91
7495.79	312787.40	17.40	122.90	33.92	31.81	-5.59	9.19	-133.94	-3052.38	3.60	1.44	2.93	5.97
7495.85	316005.20	17.40	102.29	65.09	214.78	-0.47	9.08	-112.17	-1069.32	4.06	1.42	2.97	6.10
7495.92	320905.80	17.40	112.13	57.83	216.48	-0.09	10.60	-134.94	545.82	3.86	1.26	3.10	5.30
7495.98	311808.80	17.40	127.38	51.72	215.72	1.38	14.11	-142.09	875.43	4.31	1.23	3.27	1.33
7496.05	303390.80	17.40	125.76	51.86	190.53	2.59	16.25	-140.11	618.25	4.09	0.91	3.26	1.38
7496.12	298851.40	17.40	127.09	52.56	191.03	6.34	16.84	-158.69	12.53	4.03	0.86	3.28	1.34
7496.18	296583.80	17.40	152.80	28.77	6.20	1.57	18.86	-184.39	-656.77	3.95	1.18	3.25	1.33
7496.25	252435.00	17.80	151.01	58.69	5.74	5.63	16.96	-141.71	-1425.18	4.30	2.27	3.20	1.71
7496.31	276354.80	17.60	148.30	71.06	6.23	6.04	17.00	-157.21	-296.55	4.18	1.99	3.30	1.50
7496.38	281053.40	17.60	148.91	72.79	2.73	3.71	18.69	-140.56	-1160.88	4.25	2.00	3.33	1.39
7496.44	275472.20	17.60	148.39	82.78	-0.97	2.58	19.25	-111.60	-32.70	4.41	2.40	3.38	1.38
7496.51	292101.20	17.40	151.94	77.08	0.23	2.05	19.36	-113.26	926.94	4.31	2.48	3.40	1.41
7496.57	318924.80	17.20	158.38	46.85	-2.74	-1.29	22.16	-152.59	910.49	4.11	1.53	3.46	1.16
7496.64	295406.00	17.40	162.81	45.28	-3.44	-1.90	23.42	-160.11	-1552.57	3.86	1.35	3.46	1.13
7496.71	294244.00	17.40	159.50	39.80	-4.25	2.66	19.96	-201.03	469.86	4.20	1.36	3.46	1.31
7496.77	305199.40	17.40	158.42	31.96	-0.72	0.31	19.53	-214.35	1510.52	4.14	0.87	3.46	1.31
7496.84	293631.40	17.60	161.32	39.91	-3.10	3.55	20.27	-239.03	1777.79	4.25	1.21	3.47	1.40
7496.90	305499.00	17.40	153.59	47.82	-1.60	3.22	19.55	-241.92	2648.04	4.58	1.06	3.46	1.48
7496.97	290644.00	17.60	146.89	34.16	-1.76	2.73	17.38	-233.30	3513.72	4.47	1.25	3.37	1.53
7497.03	271982.20	17.80	150.80	34.52	-0.46	2.23	18.15	-188.20	2274.47	4.17	1.68	3.25	1.48
7497.10	266641.20	17.80	153.62	35.64	-1.07	-1.37	18.71	-181.96	747.16	4.36	1.53	3.24	1.63

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7497.17	256427.20	17.80	149.40	34.19	-1.35	-5.20	17.48	-175.06	-386.51	4.29	0.78	3.27	1.36
7497.23	247711.20	18.00	147.83	37.78	0.01	-5.58	17.71	-170.80	-1378.31	4.14	0.82	3.23	1.30
7497.30	238223.20	18.00	144.48	44.85	0.22	-7.33	17.76	-167.39	-1959.29	4.28	0.97	3.18	1.46
7497.36	238152.40	18.00	141.69	53.35	0.38	-10.03	18.91	-204.41	-2372.68	4.42	0.69	3.25	1.46
7497.43	253028.40	17.80	140.06	52.39	-0.94	-8.78	17.91	-186.23	-3138.92	4.36	1.00	3.14	1.49
7497.49	270050.00	17.60	139.37	52.34	-0.31	-9.74	18.73	-191.23	-1451.19	4.52	1.01	3.14	1.73
7497.56	283491.20	17.40	142.78	43.63	-1.89	-13.35	19.41	-199.37	-1490.72	4.78	0.97	3.20	1.94
7497.62	310039.60	17.20	159.72	42.65	0.04	-9.93	21.00	-199.52	-489.49	4.95	0.63	3.28	1.89
7497.69	326210.20	17.00	173.52	39.13	0.51	-5.51	21.08	-195.72	609.64	5.15	0.52	3.30	2.07
7497.76	332455.80	17.00	177.66	41.23	1.51	0.01	24.61	-242.55	2017.56	5.35	0.22	3.46	2.00
7497.82	344454.40	17.00	182.98	45.00	3.35	1.87	27.23	-241.32	1087.30	5.95	0.21	3.49	1.99
7497.89	354371.80	17.00	195.60	44.50	2.65	7.38	28.21	-247.53	1835.56	5.94	0.22	3.44	2.16
7497.95	351546.80	17.00	192.04	40.37	2.34	8.29	27.74	-227.28	-224.05	5.83	0.25	3.42	2.71
7498.02	352497.40	17.00	188.72	34.78	0.60	7.09	29.87	-197.80	-32.93	5.56	0.18	3.39	2.81
7498.08	351461.80	17.00	192.63	33.59	2.46	4.54	28.11	-174.75	-1563.60	5.32	0.18	3.33	3.36
7498.15	347901.40	17.00	192.42	24.87	2.06	5.36	27.29	-164.40	-1723.58	4.51	0.16	3.30	3.30
7498.22	344405.60	17.00	186.45	26.72	4.26	5.12	26.41	-125.14	-2433.53	4.25	0.15	3.32	3.00
7498.28	354051.40	17.00	183.07	26.25	3.46	2.12	27.43	-150.90	-914.18	4.62	0.13	3.37	2.52
7498.35	360437.60	17.00	180.06	33.07	3.82	1.70	28.62	-160.65	-1785.84	4.71	0.13	3.39	2.23
7498.41	369928.20	16.80	183.88	30.29	4.16	0.44	29.06	-169.89	115.76	5.28	0.13	3.45	1.64
7498.48	392745.40	16.60	192.53	40.35	3.86	-0.71	28.03	-184.94	1664.71	5.98	0.14	3.57	1.55
7498.54	404426.00	16.40	158.13	66.88	235.01	3.48	26.76	-155.94	2600.67	6.40	0.16	3.60	1.86
7498.61	408477.00	16.20	160.98	66.66	234.40	6.24	24.63	-135.40	3217.52	6.12	0.16	3.56	1.82
7498.67	413927.60	16.20	128.91	91.26	421.68	10.29	19.09	-97.88	3844.65	5.90	0.15	3.53	3.04
7498.74	411257.20	16.40	123.60	98.60	419.72	11.80	21.32	-102.46	1698.34	5.24	0.20	3.42	4.90
7498.81	397315.00	16.40	106.86	95.29	419.69	12.11	27.31	-76.52	394.23	4.46	0.19	3.19	8.29
7498.87	398592.60	16.40	143.95	70.48	187.55	7.51	28.45	-147.67	-700.41	4.25	0.18	3.16	8.16
7498.94	397653.60	16.40	146.66	79.58	188.19	6.08	29.08	-165.24	-41.44	4.74	0.72	3.13	8.28
7499.00	406386.20	16.20	195.82	58.10	-0.48	3.11	31.61	-203.61	-783.13	5.08	0.73	3.20	7.15
7499.07	415081.20	16.00	205.89	58.41	-2.22	4.82	29.88	-216.07	2200.75	5.61	0.69	3.28	5.36
7499.13	416827.00	16.00	219.77	57.09	-1.54	4.76	26.82	-233.88	4439.02	6.08	0.93	3.41	2.10
7499.20	376156.00	16.40	220.25	54.51	-3.62	-0.58	25.61	-197.79	7108.51	5.89	1.61	3.25	3.56
7499.27	327393.40	17.00	219.71	45.49	-3.16	-1.24	25.64	-178.01	6632.35	5.53	1.47	3.26	4.00

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7499.33	312283.00	17.20	210.09	37.64	-0.34	-4.67	28.35	-189.29	7791.14	5.62	1.89	3.17	5.77
7499.40	293669.00	17.40	204.18	27.59	0.86	-9.02	29.24	-183.68	6695.80	5.66	1.90	3.22	5.79
7499.46	271127.40	17.60	206.88	27.41	1.20	-5.68	29.54	-171.60	5011.77	5.93	2.85	3.11	5.80
7499.53	282653.60	17.60	205.07	28.11	2.89	-3.33	34.05	-167.08	2093.18	6.35	2.50	3.22	4.13
7499.59	291362.20	17.40	200.00	32.87	3.96	1.12	34.02	-180.17	-35.78	6.06	3.78	2.98	3.47
7499.66	269619.80	17.60	195.33	34.53	2.79	3.14	31.94	-144.14	-1325.15	5.72	3.61	2.91	1.62
7499.72	240482.60	17.80	191.07	37.17	3.60	5.14	29.63	-106.80	-2764.07	5.04	3.78	2.68	1.64
7499.79	219149.00	18.00	179.96	35.13	1.69	0.72	26.16	-107.86	-4801.18	4.09	2.75	2.66	1.51
7499.86	218843.20	18.00	178.16	29.23	0.86	2.95	22.42	-115.73	-3588.81	3.60	2.48	2.61	1.47
7499.92	227947.80	18.00	172.38	25.94	-0.27	-1.71	22.43	-103.09	-1463.56	3.59	1.12	2.72	1.54
7499.99	224760.00	18.00	164.15	65.74	-0.32	3.68	16.96	-160.22	1209.27	4.16	0.95	2.64	1.48
7500.05	245435.00	17.80	156.72	114.89	-0.78	-2.43	12.73	-251.89	2965.91	5.64	0.91	2.54	1.43
7500.12	273726.20	17.60	158.54	118.32	1.61	-0.40	12.44	-249.01	5074.74	6.08	1.34	2.55	1.53
7500.18	283038.40	17.40	160.09	147.92	1.61	-4.08	10.77	-280.42	6038.32	6.96	1.44	2.45	1.42
7500.25	286618.80	17.40	161.64	149.61	1.13	-5.73	9.19	-287.62	4764.38	7.00	1.15	2.46	1.47
7500.31	286851.40	17.40	135.05	137.79	1228.84	-7.76	10.94	-221.13	3481.55	6.64	1.81	2.46	1.61
7500.38	288425.40	17.40	146.88	96.02	1228.98	-0.22	16.03	-199.04	4390.43	7.42	1.69	2.53	1.60
7500.45	262557.00	17.60	145.39	85.52	1227.00	1.08	16.52	-213.09	4053.75	6.96	1.43	2.49	1.42
7500.51	245918.60	17.80	137.29	53.89	1227.99	4.60	19.33	-168.11	2650.95	5.78	1.45	2.53	1.45
7500.58	252567.20	17.60	137.61	49.45	1227.83	5.64	18.94	-171.80	3439.72	5.59	1.47	2.49	1.27
7500.64	264224.80	17.40	166.30	31.39	-0.71	-0.67	20.77	-212.26	3133.56	5.34	1.01	2.52	1.17
7500.71	259597.40	17.60	154.65	31.30	0.22	-3.80	19.82	-157.34	1578.40	3.29	1.55	2.50	1.33
7500.77	274181.40	17.60	149.47	46.48	1.79	-7.01	19.98	-140.88	1446.01	3.60	1.73	2.48	1.58
7500.84	281966.80	17.60	152.57	52.35	0.59	-9.34	18.46	-153.52	2601.92	3.84	1.69	2.53	1.66
7500.91	275894.00	17.80	149.37	82.05	-1.58	-12.09	16.31	-163.27	3326.19	4.35	1.71	2.53	1.77
7500.97	274708.00	18.00	136.66	92.34	-3.20	-13.39	19.80	-203.33	3137.09	5.57	1.41	2.48	1.86
7501.04	247084.40	18.20	108.96	115.68	215.10	-8.11	18.49	-175.53	2042.99	5.39	0.81	2.54	1.74
7501.10	220450.60	18.40	110.06	113.15	215.18	-8.23	15.96	-146.84	1224.74	5.24	0.53	2.53	1.55
7501.17	220504.80	18.40	80.18	141.08	423.35	-0.62	14.74	-111.48	557.88	5.38	0.42	2.52	1.61
7501.23	213925.00	18.40	80.44	123.21	426.74	4.42	18.31	-110.89	-201.53	5.29	0.44	2.55	1.62
7501.30	204096.00	18.40	94.54	92.82	430.10	8.26	13.03	-59.15	741.99	4.22	0.70	2.60	1.66
7501.36	219909.20	18.20	127.89	59.82	210.36	4.63	14.71	-83.25	1421.37	4.36	1.16	2.53	1.63
7501.43	235114.80	18.00	134.39	48.78	209.32	7.35	17.80	-129.27	1344.51	4.42	0.96	2.55	1.66

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7501.50	219872.40	18.00	168.76	19.70	1.77	-1.05	20.31	-157.40	1072.12	4.22	0.92	2.52	1.65
7501.56	227685.80	18.00	170.95	4.58	1.88	-1.43	20.80	-129.47	802.12	3.73	0.90	2.49	1.61
7501.63	234945.40	18.00	171.43	8.16	7.38	-2.57	23.15	-130.75	-656.70	3.55	0.74	2.55	1.54
7501.69	263537.20	17.80	172.15	11.54	9.24	-4.78	22.80	-151.66	-448.63	3.52	0.30	2.62	1.53
7501.76	292149.00	17.60	171.36	14.24	12.08	-7.18	21.16	-140.22	350.58	3.47	0.30	2.67	1.47
7501.82	299730.40	17.60	162.60	13.05	13.26	-3.68	20.30	-138.22	-747.56	3.56	0.31	2.65	1.40
7501.89	290976.00	17.60	159.66	14.67	11.19	-2.97	19.85	-131.39	-699.72	3.73	0.68	2.58	1.54
7501.96	291083.60	17.60	155.55	19.16	5.06	-5.00	18.49	-120.91	-221.59	3.59	0.61	2.53	1.47
7502.02	274134.40	17.80	147.62	12.44	4.37	-2.32	17.30	-104.69	1057.27	3.72	0.61	2.49	1.49
7502.09	260901.00	17.80	139.84	8.13	3.44	-0.90	18.33	-106.21	724.74	3.85	0.67	2.42	1.53
7502.15	269547.40	17.80	137.38	12.09	0.12	0.12	17.82	-105.72	2043.00	4.22	0.68	2.44	1.63
7502.22	274760.80	17.80	138.10	13.04	-0.12	-0.29	16.44	-110.70	1260.20	4.29	0.32	2.51	1.55
7502.28	276614.00	17.80	136.65	11.82	3.63	3.07	16.94	-122.78	1144.53	4.50	0.34	2.52	1.77
7502.35	272082.60	17.80	140.80	15.17	2.79	2.03	17.70	-114.91	-1470.23	4.38	0.37	2.46	1.87
7502.41	269115.00	18.00	144.85	22.99	1.21	3.01	17.94	-95.66	-231.21	4.27	0.31	2.49	2.04
7502.48	291048.40	17.60	157.16	31.95	5.08	2.77	19.53	-99.57	1068.20	4.11	0.28	2.53	2.01
7502.55	316223.20	17.40	164.09	37.47	9.65	1.62	22.94	-126.93	3341.30	4.09	0.21	2.56	2.03
7502.61	332285.80	17.20	175.44	34.25	11.21	1.20	25.96	-132.46	3432.02	4.19	0.18	2.58	1.93
7502.68	350640.40	17.00	182.57	37.63	10.43	2.78	26.53	-144.04	4800.65	4.33	0.14	2.63	1.83
7502.74	359302.80	16.80	186.93	34.77	9.27	3.86	26.24	-161.15	3858.63	4.35	0.15	2.62	1.71
7502.81	344997.80	17.00	182.13	20.97	7.98	1.48	26.65	-165.21	3782.15	4.11	0.50	2.54	1.72
7502.87	334344.20	17.00	179.12	18.98	4.29	0.85	25.27	-155.45	2979.10	4.29	0.59	2.46	1.82
7502.94	314079.00	17.20	171.20	19.45	0.66	2.44	22.78	-154.15	2611.05	4.37	0.61	2.48	1.84
7503.01	315868.00	17.20	164.30	14.82	0.49	1.96	22.75	-175.41	3508.92	4.31	0.61	2.50	1.96
7503.07	313956.60	17.20	159.68	16.94	5.14	-1.38	21.23	-187.23	4578.69	4.54	0.60	2.54	2.05
7503.14	313620.60	17.20	157.32	20.22	3.73	1.41	19.82	-177.34	2805.07	4.54	0.25	2.59	2.16
7503.20	307491.60	17.20	157.79	20.70	4.63	4.82	19.14	-172.18	1711.86	4.25	0.15	2.64	2.24
7503.27	314760.00	17.00	153.98	18.33	7.21	3.24	19.43	-170.97	1014.42	4.15	0.12	2.58	2.37
7503.33	295255.00	17.20	152.47	17.74	5.86	3.61	20.52	-143.47	-446.01	3.91	0.12	2.53	2.45
7503.40	278789.60	17.40	155.69	18.13	1.21	5.55	21.39	-120.20	-2189.98	3.53	0.12	2.44	2.52
7503.46	269836.40	17.60	155.55	23.07	32.58	3.44	20.49	-116.82	276.46	3.67	0.13	2.47	2.71
7503.53	270889.20	17.60	157.23	19.41	31.07	1.06	20.48	-94.78	879.74	3.64	0.12	2.48	2.76
7503.60	270281.60	17.60	166.39	24.68	27.57	-0.02	20.68	-97.05	1551.33	3.47	0.13	2.47	2.64

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7503.66	277333.60	17.40	173.64	29.75	29.40	-3.52	19.26	-102.03	3563.31	3.55	0.14	2.49	2.55
7503.73	295956.00	17.20	174.33	22.27	30.17	-5.96	18.84	-113.00	5210.74	4.16	0.14	2.62	2.52
7503.79	303402.20	17.00	179.16	12.15	-0.96	-5.93	20.30	-120.39	3169.78	4.03	0.12	2.58	2.30
7503.86	305027.80	17.00	169.92	15.48	3.97	-7.59	19.69	-142.35	1938.27	4.40	0.50	2.53	2.44
7503.92	305296.60	17.00	135.40	42.24	226.77	-1.76	17.52	-104.31	2554.14	4.49	0.49	2.58	2.67
7503.99	305406.80	17.00	135.39	34.71	226.99	-3.79	17.14	-117.44	544.98	4.55	0.49	2.62	2.78
7504.06	302734.60	17.00	133.15	38.74	228.98	1.48	18.28	-100.45	-544.34	4.26	1.16	2.51	2.99
7504.12	304790.00	17.00	130.62	46.86	229.66	0.04	16.93	-98.92	-502.59	4.33	1.16	2.52	3.09
7504.19	312176.80	17.00	137.96	44.51	226.03	-0.60	17.50	-122.82	2178.44	4.39	0.79	2.60	2.84
7504.25	315525.00	17.00	168.67	19.89	1.49	-6.35	19.61	-152.35	960.89	4.52	0.86	2.63	2.70
7504.32	318552.20	17.00	168.58	25.03	0.92	-2.70	21.39	-130.66	2033.63	4.45	0.87	2.62	2.61
7504.38	313994.80	17.00	171.84	23.22	-2.65	-6.13	22.36	-126.73	2242.38	4.46	0.20	2.69	2.45
7504.45	304518.20	17.20	174.68	21.55	-1.31	-2.56	23.48	-135.09	2585.20	4.33	0.23	2.70	2.20
7504.51	293297.60	17.20	180.56	21.51	-1.05	1.55	24.34	-127.00	432.36	3.92	0.23	2.69	2.10
7504.58	293505.80	17.20	187.77	23.76	-0.70	1.53	26.03	-142.58	2161.88	4.26	0.28	2.68	1.92
7504.65	292750.20	17.20	153.96	54.44	241.84	6.60	23.25	-118.20	2242.05	4.70	0.29	2.72	2.18
7504.71	309243.00	17.20	167.06	62.57	242.66	7.78	24.82	-147.33	2909.18	4.93	0.33	2.79	2.14
7504.78	333863.40	16.80	215.95	61.30	240.96	5.66	30.19	-168.11	2150.19	5.70	0.54	2.86	2.30
7504.84	349331.20	16.80	251.20	63.81	239.62	3.70	34.93	-169.71	2077.81	6.29	0.60	2.94	2.37
7504.91	359275.40	16.80	276.16	61.39	240.35	4.14	36.68	-143.63	1614.09	6.48	0.91	2.94	2.38
7504.97	372528.80	16.80	330.52	40.55	-2.48	0.58	42.10	-196.35	2721.73	6.73	0.92	2.97	1.95
7505.04	371141.00	16.80	325.68	37.36	-2.21	1.11	41.46	-203.32	1672.33	7.34	1.40	2.94	2.06
7505.10	366358.20	17.00	242.93	62.62	264.33	6.97	36.89	-147.81	1564.06	6.96	1.16	2.99	1.74
7505.17	370333.00	17.00	197.14	61.89	265.07	8.98	30.53	-131.14	3251.78	6.95	1.11	3.04	1.43
7505.24	368363.60	17.00	155.80	61.41	264.93	8.55	25.20	-126.52	4072.12	6.53	0.70	3.07	1.23
7505.30	358662.60	17.00	131.57	50.87	266.06	8.32	20.50	-109.26	2634.49	5.85	0.68	3.03	1.23
7505.37	348777.20	17.00	133.55	49.57	267.48	7.78	18.47	-85.16	2272.23	4.92	0.28	3.00	0.91
7505.43	348039.20	17.00	173.03	21.44	3.50	2.23	18.24	-116.90	3773.49	4.60	0.31	2.91	1.09
7505.50	344829.40	17.00	196.54	24.56	3.29	-0.60	19.84	-125.08	3269.94	4.21	0.41	2.85	1.32
7505.56	347478.60	17.00	230.15	24.77	2.90	2.02	22.50	-146.57	1879.87	4.25	0.67	2.83	1.57
7505.63	357289.60	17.00	238.78	29.52	2.50	0.73	25.21	-151.77	1303.59	4.48	0.70	2.84	1.66
7505.70	361761.60	17.00	223.43	32.46	1.19	2.76	24.21	-145.98	1701.12	4.26	0.59	2.85	1.74
7505.76	361375.60	17.00	228.57	34.01	-1.96	2.61	24.27	-152.87	668.66	4.32	0.57	2.84	1.77

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7505.83	358866.20	17.00	223.80	32.16	-2.01	2.33	23.47	-149.90	-158.40	4.50	0.51	2.80	1.83
7505.89	341931.60	17.20	206.60	27.39	-2.88	0.97	23.06	-141.90	-855.01	4.22	0.86	2.75	1.75
7505.96	345214.80	17.00	201.96	25.93	-3.63	4.29	20.55	-149.08	-177.65	4.36	0.86	2.72	1.76
7506.02	351786.80	17.00	207.51	23.80	-3.71	2.68	21.54	-163.56	254.49	4.50	0.85	2.69	1.88
7506.09	348143.00	17.00	198.34	29.77	-2.01	4.50	20.29	-167.78	2002.31	4.43	0.83	2.66	1.79
7506.15	342595.40	17.00	188.25	26.14	-1.99	7.72	19.12	-141.59	2107.06	4.27	0.80	2.66	1.73
7506.22	352656.80	16.80	185.01	33.63	-1.26	8.67	17.73	-128.25	3863.06	4.31	0.55	2.69	1.70
7506.29	331619.00	17.20	183.55	31.14	-0.09	7.77	18.42	-125.17	3298.94	3.99	0.54	2.70	1.59
7506.35	329396.20	17.20	183.97	31.59	1.45	8.46	17.57	-125.32	1589.22	4.03	0.54	2.81	1.42
7506.42	327802.00	17.20	177.01	23.85	0.76	8.15	16.61	-130.74	303.49	4.12	0.53	2.84	1.30
7506.48	341579.00	17.00	171.21	30.92	1.94	3.93	17.71	-165.57	920.65	4.49	0.53	2.91	1.08
7506.55	351555.20	17.00	172.32	25.75	0.61	1.48	18.76	-179.53	950.15	4.86	0.13	3.00	1.05
7506.61	363789.80	16.80	182.71	29.16	-0.06	-1.79	19.15	-190.66	1405.02	5.40	0.11	3.07	1.15
7506.68	364098.60	16.80	200.97	22.03	-2.10	-3.62	21.78	-191.16	3188.12	5.74	0.11	3.05	1.33
7506.75	378884.80	16.60	233.84	27.09	-0.86	-4.63	25.10	-183.43	2875.78	5.92	0.12	3.10	1.68
7506.81	356808.20	16.80	257.08	22.36	-1.95	-5.05	26.78	-181.10	2000.03	5.68	0.12	3.05	1.92
7506.88	337475.00	17.00	265.80	24.68	0.15	-2.05	28.53	-202.85	1872.05	5.43	0.16	3.00	1.96
7506.94	321411.60	17.20	257.23	21.10	0.07	1.79	28.50	-180.98	2042.88	4.95	0.15	2.89	1.87
7507.01	310686.00	17.20	236.02	28.84	0.37	3.93	25.50	-163.01	1697.36	5.09	0.16	2.80	1.70
7507.07	284280.20	17.60	197.31	21.15	-0.74	3.87	23.65	-148.54	984.29	5.01	0.17	2.70	1.39
7507.14	279967.00	17.80	168.45	19.68	-1.28	5.93	20.73	-158.49	1103.74	5.04	0.15	2.63	1.24
7507.20	273909.40	17.80	149.26	14.28	-1.80	5.21	18.36	-138.10	-70.91	4.99	0.12	2.59	1.10
7507.27	270229.00	17.80	141.12	17.96	0.89	0.20	18.41	-121.49	-566.29	5.07	0.14	2.57	1.01
7507.34	272883.00	17.80	139.23	18.64	1.26	-3.32	18.59	-122.85	-45.23	4.56	0.12	2.62	0.99
7507.40	280017.20	17.60	152.02	24.21	0.53	-1.04	19.52	-136.51	1248.22	4.37	0.12	2.66	1.06
7507.47	278876.20	17.60	164.66	28.73	0.92	0.71	21.07	-99.89	3326.58	4.13	0.20	2.71	1.37
7507.53	287557.40	17.40	178.98	37.09	0.31	0.21	23.20	-91.81	3188.36	4.08	0.24	2.72	1.92
7507.60	276514.00	17.40	184.90	38.43	-0.86	-0.43	22.05	-97.26	5148.64	3.83	0.32	2.67	3.95
7507.66	262420.60	17.60	184.36	34.75	-0.80	-0.31	22.59	-92.09	4669.20	3.74	0.41	2.57	4.25
7507.73	247223.40	17.80	172.23	23.63	0.04	-6.44	21.62	-71.36	4261.07	3.66	0.49	2.47	4.64
7507.80	240741.40	17.80	156.91	18.54	1.32	-8.39	20.62	-73.15	1722.73	3.60	0.65	2.34	5.02
7507.86	222344.80	18.00	140.94	15.69	1.59	-8.06	19.73	-64.87	1408.86	3.41	0.86	2.22	5.13
7507.93	233703.40	18.00	139.61	8.23	0.45	-4.79	20.29	-59.74	-1214.34	3.39	1.67	2.17	3.34

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7507.99	252167.80	17.80	152.54	12.85	0.71	-2.32	22.63	-48.99	-1111.42	3.38	2.17	2.14	4.25
7508.06	268313.60	17.60	174.65	25.53	1.71	2.43	23.79	-48.86	-2585.79	3.47	2.60	2.11	5.78
7508.12	288509.60	17.40	197.87	24.76	0.98	3.56	27.73	-51.98	-1611.53	3.61	2.84	2.21	5.93
7508.19	312634.20	17.20	213.90	21.85	0.78	3.65	30.57	-66.77	-518.20	3.85	2.88	2.31	5.72
7508.25	323352.00	17.00	213.74	27.59	-0.01	3.20	33.58	-88.38	1604.45	4.34	1.98	2.39	7.72
7508.32	306007.00	17.20	207.39	21.98	1.08	-0.15	33.20	-106.22	-407.40	4.26	1.41	2.37	7.07
7508.39	296444.00	17.40	197.03	25.79	-1.79	-1.47	35.18	-120.74	611.34	4.29	0.91	2.50	6.11
7508.45	303856.60	17.40	194.36	27.76	-1.09	-5.06	34.60	-116.26	1100.92	4.22	0.42	2.56	6.48
7508.52	307545.40	17.40	198.57	29.47	-0.48	-6.71	33.54	-103.72	159.15	4.08	0.14	2.57	7.05
7508.58	314846.40	17.40	212.29	23.32	0.44	-5.65	32.28	-91.23	-1241.84	3.80	0.16	2.64	5.18
7508.65	323260.60	17.20	217.25	26.06	-0.45	-3.81	34.74	-90.37	1014.83	3.96	0.15	2.76	5.08
7508.71	326253.20	17.00	223.86	20.64	1.30	-3.15	35.29	-85.39	2544.49	3.97	0.17	2.71	4.52
7508.78	299767.80	17.20	219.43	19.07	-1.86	2.33	35.21	-101.81	2209.04	4.01	0.18	2.65	3.79
7508.85	321191.40	17.00	213.75	22.80	-0.63	2.89	35.38	-173.02	5462.24	6.01	0.20	2.57	4.54
7508.91	333906.80	16.80	213.15	29.24	0.06	3.97	36.53	-167.78	6497.97	6.27	0.30	2.57	4.59
7508.98	328477.20	17.00	213.26	19.97	-1.38	2.95	33.83	-176.23	5533.02	6.35	0.49	2.51	4.17
7509.04	321981.00	17.20	203.76	18.46	-1.00	2.08	31.67	-163.81	4122.67	6.22	0.63	2.47	3.74
7509.11	326271.40	17.20	192.62	20.72	1.85	-1.42	28.39	-145.81	3483.95	5.93	0.61	2.49	3.26
7509.17	328500.60	17.20	172.97	30.39	0.71	-4.16	23.54	-173.50	5383.12	7.11	0.62	2.39	4.41
7509.24	320769.00	17.40	152.73	28.58	1.03	-4.82	21.08	-179.48	4973.51	6.67	0.50	2.39	4.14
7509.30	332479.80	17.20	134.10	42.96	3.53	-4.49	22.67	-173.90	5601.27	6.33	0.31	2.38	4.42
7509.37	340543.80	17.00	123.04	40.79	7.48	-4.35	22.29	-175.87	6289.76	6.21	0.14	2.39	4.45
7509.44	360986.20	16.80	123.96	44.35	8.06	-1.29	22.34	-185.58	7163.81	6.24	0.13	2.39	4.47
7509.50	326283.20	17.00	139.35	25.38	12.01	1.98	26.48	-109.13	1941.01	2.93	0.11	2.58	1.73
7509.57	302746.00	17.20	155.46	26.49	10.42	4.12	26.61	-107.83	2514.84	2.92	0.12	2.58	1.69
7509.63	307614.40	17.20	180.96	19.12	9.31	3.30	25.34	-115.02	2309.45	3.17	0.10	2.68	1.40
7509.70	312974.00	17.20	206.43	24.42	5.36	4.54	27.87	-131.62	912.72	3.59	0.29	2.72	1.38
7509.76	309866.40	17.20	226.81	20.39	2.57	3.24	30.28	-140.67	1027.47	3.94	0.29	2.73	1.32
7509.83	318731.40	17.20	236.47	28.07	9.92	1.32	31.28	-128.66	2737.31	4.24	0.28	2.71	1.24
7509.90	351418.60	16.80	237.73	26.43	10.95	-3.85	33.67	-180.08	3286.06	5.45	0.30	2.75	1.11
7509.96	346326.00	16.80	226.79	28.62	11.74	-3.97	32.85	-202.18	3290.30	5.68	0.50	2.65	0.99
7510.03	345114.80	16.80	220.77	20.92	17.16	-2.91	33.50	-189.21	3972.61	5.52	0.32	2.64	0.93
7510.09	345462.80	16.80	226.20	17.52	30.66	-4.23	36.48	-200.98	3452.06	5.47	0.35	2.63	1.03

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7510.16	342228.60	16.80	252.22	10.39	27.80	-3.00	39.95	-204.49	1728.26	5.44	0.40	2.64	1.11
7510.22	316088.20	17.20	295.75	6.66	28.88	0.11	44.30	-157.95	-965.23	4.40	0.46	2.58	1.24
7510.29	306574.80	17.40	322.83	5.56	29.80	1.13	48.70	-140.36	-682.90	4.34	0.27	2.63	1.26
7510.35	304215.20	17.40	337.80	9.93	24.85	-3.62	50.10	-146.14	451.73	4.51	0.32	2.64	1.27
7510.42	289164.80	17.60	323.05	10.48	13.08	-3.54	49.61	-144.97	305.32	4.33	0.31	2.62	1.15
7510.49	291863.80	17.60	294.34	13.97	4.61	-4.64	46.55	-154.41	-104.51	4.98	0.29	2.65	1.04
7510.55	293744.20	17.40	247.97	14.44	2.40	-7.14	41.61	-155.23	1215.78	5.06	0.32	2.66	1.34
7510.62	273681.20	17.40	214.09	5.13	0.66	-8.95	36.76	-140.36	257.45	4.64	0.34	2.48	1.34
7510.68	291516.20	17.20	209.71	9.92	0.31	-4.23	35.42	-121.47	57.33	4.48	0.28	2.53	1.51
7510.75	313794.20	17.00	227.71	11.74	0.03	-1.78	35.06	-100.56	760.52	4.59	0.27	2.60	1.72
7510.81	321380.60	17.00	242.22	9.65	-0.54	-2.10	39.07	-89.80	2215.55	3.91	0.25	2.64	2.02
7510.88	341912.60	17.00	265.09	11.65	-0.12	-0.43	42.02	-95.73	3053.52	4.04	0.15	2.68	1.92
7510.94	371093.40	16.80	284.60	19.71	0.00	1.00	47.69	-90.28	3985.06	4.42	0.46	2.87	2.01
7511.01	359767.40	17.00	275.91	12.16	-0.55	2.78	48.95	-103.08	3229.45	4.56	0.48	2.82	1.86
7511.08	369601.80	16.80	262.13	14.45	-1.86	-3.09	47.93	-186.20	3732.03	7.42	0.49	2.83	1.70
7511.14	366663.00	16.80	208.10	66.08	326.05	6.33	36.31	-155.86	4893.28	8.05	0.48	2.80	1.54
7511.21	349683.60	16.80	193.24	61.08	326.49	6.47	34.02	-157.09	4787.68	7.97	0.56	2.75	1.36
7511.27	354576.80	16.80	184.54	62.72	326.50	6.45	30.14	-183.62	5423.79	8.23	0.25	2.74	1.30
7511.34	343801.40	17.00	186.94	66.03	326.61	3.81	27.23	-168.23	4584.08	8.07	1.27	2.66	1.35
7511.40	322676.00	17.20	183.35	56.77	327.21	6.89	27.37	-84.71	4076.58	5.18	1.28	2.63	1.45
7511.47	316432.00	17.20	228.59	8.01	0.51	-0.42	36.73	-118.60	2833.27	4.55	1.38	2.67	1.51
7511.54	323214.80	17.20	228.39	11.57	-0.11	0.56	36.40	-98.98	2953.93	4.62	1.33	2.72	1.57
7511.60	318625.40	17.20	229.27	4.67	-0.64	2.27	37.67	-89.79	1607.44	4.18	1.32	2.75	1.56
7511.67	326795.00	17.00	224.69	1.87	-0.33	1.28	37.60	-120.61	2631.62	4.13	0.28	2.84	1.53
7511.73	328109.40	17.00	225.72	5.84	0.87	3.66	36.19	-111.99	2426.26	4.11	0.29	2.87	1.35
7511.80	328335.60	17.00	217.44	3.28	-1.63	1.23	32.65	-107.94	3825.14	4.31	0.19	2.82	1.10
7511.86	334668.60	17.00	170.97	39.86	241.25	3.80	28.11	-90.21	3036.11	4.39	2.62	2.70	0.86
7511.93	339254.20	17.00	163.79	50.04	240.57	3.10	25.73	-88.18	3680.98	4.53	2.74	2.70	0.81
7511.99	347262.80	17.00	159.63	57.02	242.15	4.64	25.81	-104.28	4651.17	4.91	2.75	2.72	0.76
7512.06	352473.00	17.00	163.88	58.38	241.52	1.54	26.16	-116.58	4429.52	5.02	2.73	2.71	0.82
7512.13	352448.60	17.00	175.34	64.09	243.28	3.55	28.12	-107.25	2113.73	4.74	2.76	2.73	1.00
7512.19	352588.60	17.00	232.84	31.35	1.79	0.98	34.07	-156.62	2091.66	4.65	0.35	2.85	1.27
7512.26	364199.00	16.80	260.54	24.89	2.90	-0.35	37.79	-170.18	1980.45	5.11	0.24	2.90	1.57

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7512.32	362680.40	16.80	276.09	21.06	3.01	-2.43	41.13	-151.96	1286.66	4.85	0.26	2.91	1.89
7512.39	358131.20	16.80	276.85	20.70	3.75	-1.18	41.17	-139.23	797.18	4.68	0.25	2.91	1.93
7512.45	364265.80	16.80	268.08	15.65	5.29	-0.83	42.42	-135.55	2184.43	4.98	0.22	2.93	1.92
7512.52	354238.80	16.80	251.11	18.17	4.31	-3.28	41.31	-124.86	3339.75	4.86	0.19	2.91	1.75
7512.59	338948.20	17.00	228.80	21.29	5.16	0.04	38.91	-117.05	3598.10	4.28	0.16	2.86	1.54
7512.65	339716.20	17.00	177.83	70.35	337.64	3.71	30.49	-79.59	2488.18	4.22	0.13	2.86	1.39
7512.72	340728.40	17.00	165.45	68.53	335.33	3.66	30.56	-100.39	2804.94	4.31	0.12	2.85	1.43
7512.78	332788.60	17.00	156.19	68.56	335.04	2.52	26.23	-101.50	2199.42	4.14	0.51	2.83	1.42
7512.85	329630.20	17.00	140.12	63.19	335.40	1.54	22.34	-98.81	883.33	4.12	0.51	2.82	1.46
7512.91	338837.80	17.00	130.51	62.80	334.08	1.79	20.72	-104.29	1441.57	4.47	0.52	2.88	1.70
7512.98	335852.20	17.00	159.52	14.64	0.48	-3.67	24.88	-144.87	2203.33	4.78	0.68	2.85	1.94
7513.04	331346.40	17.00	160.05	14.93	1.43	-4.73	24.07	-154.50	2493.47	4.83	0.68	2.87	2.09
7513.11	329910.80	17.00	176.75	14.63	0.52	-6.11	24.84	-165.62	2314.86	4.84	0.36	2.90	2.52
7513.18	322831.00	17.20	192.32	10.70	0.08	-4.69	26.57	-161.03	2848.41	4.94	0.58	2.87	2.72
7513.24	300936.00	17.40	201.66	13.26	2.07	-10.99	27.53	-158.70	1580.88	4.67	0.58	2.76	3.00
7513.31	270299.80	17.60	197.72	10.64	0.57	-9.44	25.14	-146.62	1893.33	4.12	0.57	2.69	2.92
7513.37	246202.80	17.80	184.55	13.14	0.93	-8.97	22.49	-123.02	1851.51	3.86	0.57	2.63	2.95
7513.44	259860.60	17.80	154.96	19.30	1.28	-8.66	22.31	-112.71	3102.21	3.74	0.50	2.57	3.99
7513.50	266941.00	17.60	131.99	23.52	1.99	-7.26	19.09	-96.50	2786.41	3.72	1.06	2.52	4.45
7513.57	271485.20	17.40	108.51	16.39	-0.99	-3.35	15.73	-75.95	2952.29	3.63	2.36	2.45	4.07
7513.64	287767.40	17.40	96.95	16.33	-0.92	-2.21	14.62	-77.46	3174.22	3.67	2.52	2.47	4.11
7513.70	309044.40	17.20	94.94	23.57	-1.07	-3.87	15.06	-72.02	4200.98	4.04	2.86	2.44	4.18
7513.77	303078.60	17.20	96.14	22.63	-0.19	-0.32	12.95	-83.09	2936.92	4.46	3.52	2.46	4.01
7513.83	280332.80	17.40	88.98	35.21	-1.92	0.84	15.08	-69.19	60.66	4.22	3.60	2.38	6.60
7513.90	290200.40	17.40	121.88	39.77	-0.10	1.39	14.16	-80.86	134.59	4.68	3.34	2.40	7.48
7513.96	300013.60	17.20	107.77	87.51	230.27	5.26	15.41	-52.42	217.84	5.37	3.90	2.36	8.14
7514.03	294985.00	17.40	112.76	79.41	231.04	7.05	15.20	-54.36	-130.78	5.69	4.53	2.32	8.71
7514.09	305879.00	17.20	109.90	81.33	229.37	5.53	15.34	-62.31	811.20	6.10	4.40	2.34	9.07
7514.16	338813.00	17.00	113.73	79.21	231.80	4.02	13.77	-79.80	3344.89	6.65	5.22	2.37	8.70
7514.23	276452.40	17.60	64.65	126.28	229.10	-1.82	16.44	-52.98	5776.43	5.84	15.46	1.92	7.83
7514.29	249665.40	17.80	77.52	95.30	0.23	-10.00	16.31	-82.49	6288.05	5.88	14.61	2.00	8.20
7514.36	255148.60	17.60	72.20	102.14	1.01	-7.27	16.51	-87.24	4986.21	5.73	14.15	2.14	7.74
7514.42	233501.00	17.80	81.13	98.26	1.07	-7.62	17.75	-102.67	3350.05	4.95	14.09	2.21	6.26

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7514.49	228791.40	17.80	94.18	98.38	0.67	-8.92	18.68	-99.20	3148.15	4.73	16.35	2.14	5.17
7514.55	287682.20	17.20	125.19	47.87	2.91	-5.67	17.72	-113.96	2035.52	5.29	9.90	2.44	5.41
7514.62	315508.80	17.00	142.98	37.55	0.81	-0.80	20.36	-117.68	-810.97	4.86	12.28	2.41	4.20
7514.69	318780.00	17.00	155.07	30.54	-0.99	-4.72	20.97	-103.50	-207.53	4.60	13.78	2.32	3.84
7514.75	322613.80	17.00	150.44	35.08	-0.23	-6.27	20.12	-84.57	1410.04	4.54	13.47	2.40	3.60
7514.82	320329.40	17.00	144.95	25.00	-0.70	-7.02	21.03	-89.74	2095.24	4.59	11.50	2.57	1.80
7514.88	316671.40	17.00	134.96	29.92	-0.82	-7.92	19.48	-81.50	420.99	5.10	8.44	2.79	1.33
7514.95	313713.40	17.00	122.26	25.22	0.30	-9.10	17.03	-69.59	2445.60	4.99	6.24	2.95	1.19
7515.01	306287.20	17.00	111.98	28.82	1.06	-7.18	15.39	-69.18	1968.66	4.82	6.80	2.90	1.08
7515.08	301071.60	17.00	114.81	23.57	0.77	-7.30	14.23	-36.43	1051.19	4.81	7.29	2.83	1.10
7515.14	323685.80	16.80	169.75	27.34	-1.72	-3.33	15.69	-59.49	830.70	5.08	5.61	3.02	1.21
7515.21	345088.40	16.60	210.42	25.18	-2.60	2.49	18.64	-70.56	2288.01	5.07	7.23	2.94	1.33
7515.28	353024.40	16.60	247.89	30.77	-2.72	5.60	21.02	-90.79	2015.69	5.70	7.69	2.89	1.42
7515.34	365798.00	16.60	277.13	30.48	-4.11	7.04	23.85	-119.28	2277.42	6.28	6.35	3.02	1.55
7515.41	369122.60	16.60	300.05	37.38	-5.13	11.04	26.60	-212.34	1989.14	6.99	6.04	3.16	1.72
7515.47	352684.80	16.80	286.80	34.52	-3.54	8.48	24.03	-214.46	2963.78	7.14	5.89	3.24	1.93
7515.54	356711.00	16.80	290.80	40.74	-3.17	5.77	22.32	-206.10	3676.11	7.37	5.23	3.30	2.19
7515.60	372449.00	16.60	247.75	45.86	-2.84	1.22	22.22	-192.19	3692.20	7.22	4.92	3.13	8.17
7515.67	380762.00	16.40	205.07	50.50	-1.32	-2.56	19.41	-188.01	4437.96	6.89	4.47	3.12	11.46
7515.73	411887.40	16.20	164.43	53.66	-0.67	-5.91	17.51	-132.01	1967.81	6.84	4.21	2.72	19.67
7515.80	437351.60	16.00	107.32	63.93	-0.60	-10.92	18.09	-162.52	2157.18	7.51	4.49	2.15	29.38
7515.87	440234.80	16.00	58.63	71.83	1.07	-11.80	19.37	-218.15	2223.29	7.50	1.90	2.06	36.57
7515.93	422108.00	16.20	71.49	75.90	0.22	-11.37	17.77	-208.72	5075.85	7.73	6.48	1.95	33.12
7516.00	429928.60	16.20	107.73	72.70	0.51	-11.15	20.83	-239.61	5911.12	8.27	5.73	2.15	31.13
7516.06	412702.40	16.40	136.91	66.52	1.45	-11.05	20.57	-267.11	7616.75	7.95	5.63	2.56	22.90
7516.13	377791.00	16.60	165.38	62.19	3.20	-4.12	21.37	-221.25	6635.00	6.85	5.47	3.10	12.89
7516.19	368904.60	16.60	187.38	47.13	2.56	-2.73	20.88	-192.54	5947.58	6.36	5.55	3.48	5.51
7516.26	374905.80	16.60	197.41	33.58	3.76	0.97	19.16	-220.53	4191.01	5.92	0.63	3.93	3.24
7516.33	361139.00	16.80	188.90	30.64	4.28	0.99	17.87	-194.46	3179.80	5.35	0.61	3.87	2.65
7516.39	348256.20	16.80	176.48	24.16	3.48	0.40	19.22	-152.95	4154.17	4.93	0.63	3.76	3.70
7516.46	350179.60	16.80	175.95	17.70	3.03	-2.58	15.55	-129.50	3257.42	4.81	4.39	3.39	4.84
7516.52	336528.20	17.00	165.24	20.41	2.40	-6.70	15.51	-144.43	3445.60	4.63	6.28	3.13	5.66
7516.59	315814.80	17.20	161.37	33.12	1.48	-10.35	15.80	-136.68	1890.68	4.38	6.43	3.07	6.25

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7516.65	298331.60	17.40	131.40	41.41	0.76	-10.80	13.28	-113.42	41.59	3.66	6.91	2.53	15.53
7516.72	299872.40	17.40	107.92	46.48	0.16	-19.09	8.36	-104.31	-1386.13	3.26	6.97	1.94	26.43
7516.78	308444.60	17.40	74.22	50.46	-0.32	-16.10	8.44	-102.36	3104.66	2.39	3.00	1.65	39.62
7516.85	308665.80	17.40	46.30	59.94	0.79	-15.48	4.33	-58.60	53.84	1.66	1.05	1.17	47.38
7516.92	312771.60	17.20	18.61	66.04	2.83	-19.66	2.11	-24.70	-754.76	1.26	1.65	0.57	52.11
7516.98	332255.40	17.00	15.20	83.34	2.07	-24.78	0.83	-40.72	799.65	2.26	1.24	0.49	53.75
7517.05	331437.80	17.00	16.72	119.70	1.09	-20.65	0.31	-47.07	153.80	3.00	3.01	0.51	49.38
7517.11	323620.20	17.00	17.44	122.72	-0.10	-28.33	-0.62	-51.72	-1918.78	3.20	3.03	0.56	49.40
7517.18	298481.00	17.20	18.98	126.07	-0.92	-27.76	0.84	-57.66	-3487.76	3.17	3.64	0.65	54.07
7517.24	293598.40	17.40	14.33	115.83	-2.79	-24.08	1.19	-68.00	1691.58	2.97	3.02	0.65	62.83
7517.31	225024.00	18.00	14.10	155.62	3.87	-28.75	0.27	-46.32	-5423.84	1.75	13.00	0.59	51.24
7517.38	221799.60	18.00	13.24	124.79	4.19	-25.39	1.77	-29.69	-3846.67	0.90	11.37	0.61	57.39
7517.44	215424.40	18.00	11.54	131.82	4.06	-19.59	1.99	-24.63	-3963.32	0.80	11.35	0.58	57.09
7517.51	228415.60	18.00	10.89	129.12	4.07	-18.83	3.07	-15.44	1852.87	0.78	11.19	0.52	56.33
7517.57	225668.40	18.00	12.83	123.27	6.02	-17.89	3.26	-13.04	-3143.57	0.75	11.22	0.53	54.78
7517.64	267673.80	17.60	14.06	69.88	0.74	-6.93	4.87	-11.54	3732.36	0.93	1.56	0.60	67.57
7517.70	254247.20	17.80	15.01	66.27	0.03	-6.19	4.32	-19.12	11509.36	0.94	2.58	0.64	65.51
7517.77	243826.00	18.00	16.45	66.81	2.09	-10.53	5.16	-20.48	14063.78	0.97	2.63	0.67	63.46
7517.83	232566.60	18.00	18.17	67.90	3.61	-17.00	2.17	-20.23	12777.30	1.03	2.82	0.68	62.30
7517.90	254430.20	17.80	18.58	73.29	2.79	-18.20	0.87	-22.87	11692.80	1.10	2.78	0.71	62.19
7517.97	277627.80	17.60	19.85	72.40	1.18	-15.61	0.86	-34.99	12312.57	1.21	2.70	0.72	61.21
7518.03	291732.20	17.40	21.16	79.99	2.59	-19.11	1.96	-38.53	2073.97	1.28	1.90	0.71	60.93
7518.10	308845.40	17.20	24.43	79.45	2.49	-17.22	0.55	-40.88	-4261.44	1.42	4.26	0.67	57.42
7518.16	325471.20	17.00	27.69	77.44	-0.13	-9.76	2.14	-43.37	-4550.82	1.50	5.51	0.68	53.85
7518.23	303468.20	17.20	37.77	72.62	-1.30	-9.18	2.78	-44.73	-3163.64	1.77	9.11	0.72	45.89
7518.29	302607.80	17.20	65.63	68.59	0.04	-9.99	4.52	-63.03	-4335.14	2.25	9.10	1.36	35.59
7518.36	292541.40	17.40	89.91	66.37	1.37	-3.65	7.39	-78.46	-1470.51	2.79	10.50	1.81	24.83
7518.43	299801.60	17.40	110.56	61.90	2.27	-7.87	10.65	-128.61	1734.18	3.87	8.62	2.34	16.98
7518.49	302413.40	17.40	128.88	55.91	3.75	-6.62	12.18	-133.70	448.08	4.23	10.62	2.59	9.87
7518.56	309617.00	17.40	145.22	53.70	4.00	-3.36	15.36	-149.57	929.18	4.32	9.44	2.83	6.03
7518.62	324483.00	17.20	140.23	73.46	4.14	-7.53	15.86	-175.68	3646.08	5.53	9.24	2.60	6.59
7518.69	344963.40	17.00	132.96	69.42	2.85	-7.65	14.22	-180.75	2451.58	5.30	7.48	2.57	9.46
7518.75	341144.00	17.00	131.09	64.07	1.60	-1.53	12.90	-156.02	1677.44	4.61	6.93	2.59	10.62

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7518.82	339252.00	17.00	123.09	64.06	1.09	-0.43	13.53	-140.58	1312.42	4.50	2.98	2.81	13.23
7518.88	364811.00	16.60	107.21	72.95	2.17	-4.84	12.85	-128.94	-1569.99	4.43	0.47	2.76	20.39
7518.95	356826.20	16.80	90.81	58.53	1.04	-1.04	10.54	-90.24	-1557.22	2.86	1.40	2.45	26.33
7519.02	365307.00	16.60	82.63	56.93	3.74	-1.15	8.73	-79.10	1221.09	2.76	1.59	2.23	30.25
7519.08	373977.20	16.60	59.49	70.22	184.98	1.22	8.30	-45.84	505.49	2.55	1.78	2.07	33.75
7519.15	382667.40	16.60	70.71	69.56	187.88	-2.74	7.71	-58.29	1785.88	2.62	2.06	2.03	32.36
7519.21	372891.60	16.80	86.26	58.66	194.27	-0.23	7.25	-60.15	6134.55	2.82	2.23	2.22	24.63
7519.28	362019.80	16.80	104.95	51.85	195.63	0.62	9.57	-49.69	4389.89	3.09	2.52	2.46	16.55
7519.34	349944.40	17.00	112.83	51.94	194.76	3.72	11.64	-52.03	2860.16	3.18	2.25	2.74	9.18
7519.41	337089.80	17.00	131.76	29.72	13.12	2.87	11.93	-71.15	2720.25	3.21	3.14	2.81	4.08
7519.48	337860.00	17.00	130.86	31.08	11.05	4.59	13.78	-73.56	1393.38	3.23	2.74	2.92	2.74
7519.54	332568.60	17.00	128.22	35.08	3.16	5.96	14.70	-68.31	-24.74	3.13	2.55	2.99	2.58
7519.61	327496.60	17.00	109.88	29.53	2.30	7.40	13.95	-87.29	26.36	3.02	1.72	3.23	2.44
7519.67	323603.40	17.00	100.11	25.98	-0.03	3.30	15.14	-70.00	298.36	3.16	1.72	3.32	2.25
7519.74	327029.00	17.00	89.55	35.06	0.54	0.42	16.43	-84.48	1157.05	3.52	1.75	3.40	1.93
7519.80	327511.60	17.00	68.92	31.89	0.40	-0.66	15.17	-114.98	2247.31	3.86	1.88	3.44	1.32
7519.87	335276.20	17.00	51.33	26.26	2.40	-1.05	14.46	-159.46	2216.47	4.28	1.91	3.50	1.12
7519.93	337735.20	17.00	45.59	27.74	2.40	-5.28	14.55	-166.41	1971.77	4.42	1.48	3.51	1.20
7520.00	334483.00	17.00	43.31	25.22	3.43	-7.27	13.41	-202.47	1601.31	4.84	1.64	3.54	1.10
7520.07	326601.40	17.00	41.76	18.64	2.79	-6.42	12.50	-196.77	1017.60	4.39	0.51	3.60	1.08
7520.13	307363.00	17.20	42.93	11.12	1.43	-5.69	11.58	-153.65	296.94	4.06	3.87	3.31	0.93
7520.20	290337.20	17.20	42.43	10.33	-0.36	-3.78	10.96	-123.90	-72.65	4.08	5.53	3.21	1.07
7520.26	277407.20	17.40	44.18	7.39	-0.47	-3.11	11.33	-106.87	-889.30	4.12	5.69	3.18	1.21
7520.33	264227.40	17.60	42.87	8.97	-1.02	-3.13	10.23	-95.78	-2200.31	3.66	5.55	3.16	1.35
7520.39	211027.20	18.20	36.10	6.53	91.46	8.97	9.84	-70.61	-1799.76	3.45	13.05	2.44	1.52
7520.46	215626.40	18.20	34.34	8.72	91.58	7.80	9.99	-102.00	-1652.44	3.24	9.66	2.72	1.63
7520.52	220490.60	18.20	35.78	7.34	92.12	8.07	10.11	-100.37	-482.22	2.99	7.97	2.84	1.54
7520.59	235270.80	18.00	39.51	14.74	91.53	9.01	9.23	-107.34	676.42	3.27	9.06	2.82	1.48
7520.66	250389.40	17.80	40.37	17.87	92.23	11.79	10.17	-127.21	2024.03	3.42	9.05	2.89	1.50
7520.72	323803.60	17.00	48.21	23.19	-0.12	-1.48	11.23	-188.40	2436.87	6.68	3.67	3.50	1.53
7520.79	326283.20	16.80	48.80	21.08	1.29	0.54	9.89	-171.27	1941.74	6.76	3.82	3.54	1.64
7520.85	327098.00	16.80	48.48	25.28	0.25	-2.51	10.61	-157.41	33.57	6.80	5.34	3.46	1.81
7520.92	338671.40	16.80	49.34	31.76	2.53	-3.56	11.51	-159.23	77.83	7.23	5.75	3.42	2.12

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7520.98	351791.40	16.80	51.65	31.44	3.00	-6.15	11.38	-138.32	660.76	7.57	5.75	3.46	2.42
7521.05	336401.60	17.00	52.57	31.43	2.90	-5.04	12.36	-97.25	188.87	4.73	3.64	3.57	2.52
7521.12	346028.20	17.00	63.32	33.37	2.09	-5.17	14.73	-108.94	1362.68	5.06	3.60	3.51	2.51
7521.18	354653.40	17.00	70.94	27.26	2.66	-6.45	14.49	-156.95	2806.25	6.02	2.45	3.55	2.32
7521.25	343187.40	17.00	82.84	20.02	0.41	-5.37	15.12	-153.47	1868.96	5.59	0.78	3.65	2.30
7521.31	345733.00	16.80	89.79	25.86	0.22	-4.00	16.17	-148.42	877.26	5.35	0.76	3.59	2.10
7521.38	355521.60	16.80	107.57	30.58	-1.13	-1.46	17.91	-145.16	-235.73	5.55	0.75	3.60	2.38
7521.44	357816.40	16.80	106.39	36.96	-1.08	-2.77	17.60	-145.73	-542.19	5.18	0.65	3.50	2.48
7521.51	353882.80	16.80	104.45	44.57	-0.35	1.36	16.65	-125.62	-1653.22	4.10	0.39	3.51	2.70
7521.57	358299.60	16.80	104.67	47.02	0.30	0.07	16.04	-132.06	-1979.36	3.88	0.37	3.52	2.74
7521.64	353597.80	17.00	110.82	42.30	0.97	0.57	16.14	-149.05	-1957.56	3.82	0.37	3.48	3.32
7521.71	360747.20	16.80	125.54	44.76	2.02	-3.64	14.52	-153.50	-681.13	3.96	1.17	3.41	3.83
7521.77	374084.20	16.60	120.11	55.45	2.14	-5.28	15.44	-151.14	528.02	4.01	1.90	3.15	10.77
7521.84	375461.00	16.60	112.51	57.22	2.56	-9.08	17.74	-121.24	2543.75	4.01	6.85	2.73	14.26
7521.90	379564.80	16.60	100.41	56.50	1.83	-7.66	18.35	-106.49	5200.78	3.94	7.03	2.63	17.03
7521.97	369664.20	16.60	84.37	58.08	1.30	-6.51	17.74	-73.32	5818.12	3.49	7.03	2.62	17.42
7522.03	360415.20	16.80	50.96	55.33	2.14	-5.87	16.73	-84.16	6334.58	3.05	6.36	2.66	17.66
7522.10	355800.20	16.80	50.70	47.17	1.14	-3.56	15.86	-79.55	6015.46	3.41	5.57	3.03	11.92
7522.17	361885.00	16.80	60.02	48.37	3.02	-2.12	15.20	-102.65	5126.45	3.47	0.53	3.52	8.72
7522.23	355114.40	16.80	58.85	48.18	3.17	-2.62	13.39	-98.41	3745.19	3.27	0.42	3.63	6.18
7522.30	359107.00	16.80	60.30	45.43	2.09	-1.17	12.11	-108.09	3971.41	3.53	0.69	3.69	5.52
7522.36	353833.00	16.80	57.44	44.56	2.26	0.20	10.91	-94.14	3071.79	3.48	0.65	3.74	4.92
7522.43	341172.20	17.00	48.90	42.51	4.09	1.80	10.24	-84.19	2639.28	3.10	1.33	3.67	4.09
7522.49	329229.20	17.00	34.13	45.99	2.41	0.87	8.32	-63.01	2423.11	2.82	1.37	3.61	4.26
7522.56	320158.00	17.00	26.61	43.51	2.80	1.66	6.79	-56.01	805.47	2.55	2.10	3.50	4.39
7522.62	313650.40	17.00	19.86	38.04	2.75	-2.71	6.65	-49.73	-690.66	2.22	1.88	3.43	4.98
7522.69	319166.20	17.00	17.12	36.33	1.00	-2.77	7.60	-70.47	-111.14	2.61	2.64	3.29	6.07
7522.76	311278.80	17.00	17.48	39.04	0.67	-4.58	5.94	-87.21	33.67	2.50	2.47	3.31	6.36
7522.82	296862.60	17.20	16.19	28.05	0.20	-2.73	5.17	-85.50	-593.40	2.17	2.53	3.29	6.27
7522.89	288451.40	17.40	13.51	24.04	0.54	-4.32	7.03	-100.34	762.11	2.09	1.76	3.43	6.05
7522.95	277644.40	17.60	11.53	25.16	1.98	-3.08	7.66	-96.89	824.34	1.97	1.80	3.44	5.95
7523.02	264141.80	17.60	8.01	27.14	2.08	-1.56	6.41	-67.75	308.71	1.30	1.98	3.35	6.64
7523.08	281165.80	17.60	5.16	23.23	2.10	-3.81	6.21	-51.73	-1152.14	1.08	1.67	2.96	14.67

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7523.15	306622.80	17.40	4.62	30.45	4.02	-7.50	7.08	-48.42	-1815.51	1.23	1.68	2.46	24.92
7523.22	328455.00	17.20	4.54	48.88	4.81	-7.64	4.20	-44.15	-553.37	1.55	2.11	1.77	36.81
7523.28	351750.60	17.00	4.69	72.51	5.41	-8.61	2.78	-47.14	919.83	2.11	2.10	1.19	48.98
7523.35	299810.20	17.60	4.01	121.09	6.73	-12.50	6.00	-42.03	411.98	1.95	5.69	0.69	46.54
7523.41	294957.80	17.60	3.73	127.24	5.55	-13.21	6.01	-38.90	-314.04	1.96	5.64	0.59	51.21
7523.48	289829.00	17.60	3.06	128.96	3.62	-14.30	4.77	-29.62	-850.00	1.82	5.69	0.54	53.16
7523.54	288008.20	17.60	3.85	116.39	2.53	-16.42	6.00	-20.44	-4701.30	1.54	5.36	0.64	53.10
7523.61	272150.40	17.80	3.05	98.72	2.13	-13.03	6.82	-13.82	-5095.88	1.11	5.27	0.91	46.18
7523.67	320758.00	17.40	4.21	47.99	1.70	-13.20	2.52	-26.57	-2453.46	1.40	0.65	1.34	50.88
7523.74	312916.40	17.40	4.80	46.13	2.73	-7.59	2.30	-29.09	470.59	1.57	0.49	1.78	39.67
7523.81	303121.40	17.40	4.31	39.69	6.29	-8.00	1.81	-31.60	2586.25	1.74	5.42	1.84	30.14
7523.87	285518.60	17.60	3.12	32.73	6.38	-7.09	2.04	-26.96	4869.60	1.70	7.66	2.18	18.57
7523.94	281837.40	17.60	4.21	30.95	6.44	-11.21	1.52	-35.79	5286.85	1.76	10.13	2.37	13.35
7524.00	270327.00	17.60	4.26	33.42	5.95	-5.71	3.03	-21.04	2901.82	1.64	13.38	2.39	9.44
7524.07	262943.80	17.80	2.37	30.43	6.27	-10.36	4.68	-22.54	181.57	1.58	13.40	2.48	8.72
7524.13	253311.40	18.00	2.65	32.94	1.63	-7.01	4.91	-31.51	-48.42	1.42	9.49	2.77	7.71
7524.20	270268.60	17.80	2.20	42.41	2.31	-6.12	5.65	-36.84	5053.88	1.45	7.13	2.70	12.51
7524.27	278652.80	17.60	1.82	47.48	2.41	-4.45	5.75	-24.18	7312.87	1.49	6.58	2.64	15.33
7524.33	296503.00	17.40	0.95	46.28	3.12	-5.58	5.45	-39.06	8563.13	1.65	3.67	2.87	15.87
7524.40	247085.20	17.80	2.45	41.74	77.97	7.49	10.67	-31.20	12338.51	1.35	8.84	2.16	14.15
7524.46	246990.20	17.80	2.22	36.84	78.63	8.36	11.93	-25.63	10633.88	1.46	7.89	2.33	12.73
7524.53	223119.80	18.00	4.85	25.59	78.66	12.05	10.39	-24.85	5769.04	1.44	7.89	2.55	8.13
7524.59	214728.80	18.20	4.06	19.43	78.09	12.10	10.60	-40.58	2376.33	1.25	5.94	2.78	5.21
7524.66	205009.80	18.40	4.43	17.99	78.84	10.59	9.64	-37.14	469.21	1.07	6.00	2.71	5.02
7524.72	258076.20	17.80	4.33	20.28	2.79	-0.24	3.44	-44.89	-2424.30	1.36	1.06	3.28	6.87
7524.79	274047.00	17.60	5.12	30.11	1.81	-3.17	1.78	-51.17	-705.41	1.38	0.79	3.00	11.23
7524.86	295467.60	17.40	3.89	39.02	3.32	-6.33	1.62	-68.96	1386.97	1.82	0.80	2.86	13.36
7524.92	309757.80	17.20	7.04	48.09	1.11	-8.46	1.77	-93.59	1703.95	2.51	1.00	2.65	15.82
7524.99	334450.60	17.00	9.25	63.20	1.47	-11.03	3.34	-91.54	1517.62	2.88	0.82	2.46	20.92
7525.05	347738.80	17.00	21.88	68.16	3.30	-11.91	4.05	-108.94	2326.74	3.47	0.56	2.64	19.78
7525.12	349834.60	17.00	27.43	72.34	4.45	-10.62	7.85	-115.82	3363.20	3.84	0.56	3.01	16.65
7525.18	354836.40	17.00	28.25	96.57	2.40	-16.53	10.32	-115.30	6587.20	4.06	0.61	2.87	18.59
7525.25	359978.40	17.00	61.49	93.72	3.68	-14.91	12.53	-111.94	6658.99	4.91	0.46	3.07	16.15

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7525.31	362261.20	16.80	98.12	79.26	2.21	-12.52	13.65	-157.56	11227.90	5.80	0.61	3.34	10.57
7525.38	361004.00	16.80	123.25	75.65	1.35	-9.18	15.72	-161.94	11601.59	6.77	1.19	3.18	10.31
7525.45	354672.40	16.80	157.23	69.37	-1.41	-5.21	16.78	-182.36	10453.70	7.39	1.67	3.12	8.37
7525.51	353059.80	16.80	190.60	40.82	-3.34	2.17	19.23	-176.77	4014.82	7.26	2.13	3.33	3.50
7525.58	350266.60	16.80	187.16	36.54	-1.37	3.47	19.58	-173.32	4881.91	6.47	3.02	3.20	2.70
7525.64	347816.40	17.00	175.67	37.44	-0.51	2.93	19.02	-146.24	1688.33	6.06	3.62	3.00	2.30
7525.71	348443.20	17.00	162.13	36.66	-0.94	1.62	17.85	-117.33	2051.33	5.44	4.82	2.84	2.12
7525.77	339697.80	17.20	148.24	32.52	4.09	-0.98	14.92	-92.76	1448.82	5.41	7.51	2.49	2.20
7525.84	332010.00	17.20	138.88	36.36	6.50	-3.03	16.75	-78.96	2559.13	5.53	11.72	2.14	2.52
7525.91	336515.60	17.20	133.82	35.13	4.59	-2.19	16.49	-56.14	2361.04	5.62	12.30	2.02	2.70
7525.97	325014.40	17.20	131.07	29.87	4.36	-1.26	17.73	-54.49	2655.81	5.45	11.42	2.03	2.89
7526.04	326525.60	17.20	129.89	32.73	4.80	-2.94	17.93	-67.40	2113.11	5.27	10.00	2.10	2.91
7526.10	344045.60	17.00	127.06	39.19	3.62	-5.60	19.51	-57.97	2807.25	5.20	7.21	2.26	3.11
7526.17	346028.80	17.00	125.00	39.22	4.24	-3.16	15.01	-79.66	1078.36	5.18	2.49	2.52	3.25
7526.23	347401.40	17.00	128.56	43.36	7.92	-2.41	16.01	-113.39	359.46	5.06	1.06	2.61	3.37
7526.30	353455.20	17.00	133.83	52.67	8.47	-1.31	15.52	-111.24	-623.19	4.99	0.99	2.60	3.30
7526.36	354217.60	17.00	140.08	56.85	8.33	0.90	13.18	-137.81	40.83	5.20	0.82	2.57	3.36
7526.43	361134.40	16.80	141.45	55.05	6.96	3.28	12.00	-162.26	-529.32	4.53	0.43	2.49	3.10
7526.50	363861.20	16.80	136.86	58.26	5.00	3.97	13.69	-165.09	995.17	4.41	0.52	2.43	2.99
7526.56	357079.40	16.80	129.37	60.85	2.02	3.23	11.00	-146.96	1825.20	4.20	0.42	2.42	2.74
7526.63	358077.40	16.80	124.67	56.31	1.17	4.59	11.94	-142.89	3551.35	4.06	0.41	2.47	2.61
7526.69	354612.40	16.80	123.86	50.83	0.12	4.62	15.87	-132.85	1875.75	3.77	0.81	2.50	2.67
7526.76	346660.20	17.00	119.43	52.36	0.55	4.81	16.75	-146.68	2626.21	4.17	0.95	2.62	2.92
7526.82	345340.20	17.00	121.19	50.43	2.48	2.38	15.92	-161.46	2194.00	4.20	0.89	2.71	3.38
7526.89	339714.60	17.00	121.00	45.39	2.40	1.45	16.56	-152.49	2606.70	4.54	2.60	2.63	3.69
7526.96	329395.00	17.00	115.63	48.38	2.19	-0.60	16.27	-166.09	789.20	4.89	3.65	2.53	4.57
7527.02	318258.20	17.00	102.13	48.02	2.78	-2.20	15.90	-149.40	698.88	4.53	3.58	2.45	5.76
7527.09	309815.60	17.00	94.28	46.80	2.80	-3.58	15.81	-136.29	522.15	4.55	3.62	2.53	6.44
7527.15	300217.60	17.20	92.31	42.41	1.29	-4.38	14.47	-120.23	-485.97	4.43	3.66	2.53	6.73
7527.22	289737.00	17.40	87.04	40.24	1.31	-7.00	14.32	-119.84	-1213.93	4.16	2.15	2.62	7.36
7527.28	288231.80	17.40	81.40	36.92	0.15	-8.34	13.44	-119.99	-1443.96	3.77	1.18	2.74	7.33
7527.35	284540.60	17.60	82.85	40.61	0.90	-9.16	11.81	-128.87	-128.27	4.04	0.85	2.86	6.80
7527.41	274738.20	17.80	86.59	32.60	0.22	-8.13	11.56	-139.03	-898.57	3.77	0.68	2.89	6.20

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7527.48	225187.40	18.20	69.78	84.22	-2.46	-16.92	11.71	-93.06	-885.09	3.18	4.63	2.33	4.87
7527.55	230518.60	18.00	67.05	79.60	-1.83	-15.31	11.02	-85.05	-1127.13	3.11	4.45	2.40	4.13
7527.61	226857.00	18.20	69.09	77.83	-0.43	-12.22	11.31	-91.80	-1149.23	3.18	4.57	2.42	3.46
7527.68	232256.20	18.00	77.82	75.57	-1.56	-12.45	11.30	-123.29	-603.93	3.37	4.38	2.52	2.39
7527.74	235657.00	18.00	94.18	80.15	-0.67	-8.96	11.65	-96.11	-907.72	4.00	4.37	2.59	1.92
7527.81	305760.60	17.40	125.65	30.22	1.78	3.33	15.46	-131.30	1452.92	5.49	1.47	3.23	2.14
7527.87	325592.80	17.40	135.94	32.86	0.29	4.88	18.17	-157.05	2070.20	6.13	1.48	3.33	1.90
7527.94	333159.20	17.20	142.30	34.39	-0.45	4.24	19.33	-161.59	2104.43	6.40	1.96	3.38	1.60
7528.01	334959.20	17.20	135.90	29.80	-0.62	2.38	19.92	-139.65	1515.39	6.43	2.36	3.38	1.98
7528.07	346788.40	17.00	124.12	28.43	-1.17	-4.54	21.22	-169.96	1279.04	6.23	3.66	3.27	2.33
7528.14	328176.00	17.00	112.96	30.94	-2.25	-3.49	19.33	-170.69	-233.24	5.83	5.03	3.15	2.66
7528.20	309262.00	17.00	105.45	33.17	-1.83	-3.48	19.05	-164.14	-1254.28	5.48	6.63	2.97	3.02
7528.27	306562.00	17.00	101.32	38.84	-1.93	-6.47	18.22	-114.00	-746.32	5.88	9.73	2.75	3.35
7528.33	297778.40	17.20	98.17	41.55	-2.64	-3.46	19.73	-117.79	-1584.23	5.53	10.46	2.64	3.30
7528.40	278591.00	17.40	96.48	44.95	-3.25	-2.10	18.93	-104.20	-1464.20	5.31	10.00	2.63	3.17
7528.46	267684.20	17.60	96.19	47.22	-1.89	-2.47	19.85	-115.69	-2090.22	5.06	8.28	2.73	2.87
7528.53	253857.40	17.80	102.92	45.50	-2.52	-2.02	20.00	-144.46	-2235.68	5.07	6.84	2.82	2.69
7528.60	235162.80	18.00	104.93	37.86	-2.06	-0.06	21.66	-214.59	-1993.65	4.76	4.13	2.89	2.51
7528.66	245286.40	17.80	90.98	52.72	242.02	4.63	19.43	-174.98	-2509.26	4.91	3.21	2.98	2.35
7528.73	258965.20	17.60	99.18	57.77	241.48	5.80	19.78	-191.88	-1407.64	5.12	3.21	2.95	2.38
7528.79	272376.40	17.40	100.18	49.97	241.53	2.61	20.60	-213.01	397.71	5.03	2.46	3.04	2.37
7528.86	294502.80	17.20	94.08	70.10	245.67	-4.03	18.90	-226.77	1654.33	6.33	3.35	2.73	1.94
7528.92	344748.40	16.80	78.55	191.78	238.71	25.60	3.98	-222.59	2496.96	8.28	2.25	2.31	1.46
7528.99	361492.00	16.60	97.78	189.43	-4.63	22.70	6.21	-233.57	3245.65	8.26	2.54	2.30	1.55
7529.06	369581.20	16.60	72.01	188.46	6004.51	25.49	5.59	-190.97	4026.66	8.68	4.63	1.92	1.62
7529.12	370559.40	16.60	62.24	189.75	6003.91	29.17	5.37	-147.35	1685.85	8.44	5.59	1.72	2.94
7529.19	363414.00	16.60	58.69	175.78	6001.90	34.21	4.07	-78.32	542.57	7.02	8.09	1.72	3.17
7529.25	333015.20	16.80	71.04	54.53	6008.38	4.61	16.09	-41.87	-752.11	4.64	8.24	2.23	3.64
7529.32	311740.60	17.00	67.42	47.27	6009.48	1.78	14.87	-60.16	-1139.95	4.40	8.00	2.21	3.53
7529.38	298802.60	17.00	85.77	37.92	0.56	-3.49	15.14	-66.60	-1905.35	3.63	7.20	2.50	3.33
7529.45	288980.00	17.20	90.73	42.26	2.28	-7.26	11.83	-86.46	347.32	3.79	6.80	2.61	1.88
7529.51	266698.40	17.40	92.94	48.82	-1.38	-6.87	11.68	-102.82	655.73	3.84	3.35	2.84	1.80
7529.58	298364.00	17.20	91.97	80.86	-4.19	-11.20	10.39	-367.93	4460.39	11.45	5.58	2.62	1.46

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7529.65	289353.60	17.40	93.32	69.78	-5.05	-7.68	10.31	-368.17	5422.99	11.43	7.41	2.47	1.39
7529.71	280817.80	17.60	88.11	81.80	-4.02	-8.82	7.38	-380.86	5309.65	11.73	5.48	2.44	1.36
7529.78	270646.00	17.60	89.25	88.71	-4.92	-8.75	7.65	-366.30	3992.88	11.56	6.29	2.31	1.71
7529.84	273084.40	17.60	93.82	89.57	-3.03	-11.55	8.87	-349.28	4552.99	11.34	7.10	2.24	2.24
7529.91	214459.40	18.20	97.75	70.06	0.10	-9.90	10.52	-98.84	1074.73	3.77	4.85	2.38	3.03
7529.97	201716.20	18.20	93.97	91.89	0.55	-19.26	8.98	-103.68	1240.73	3.82	3.37	2.35	4.21
7530.04	194351.80	18.20	97.37	87.45	-0.07	-13.52	11.77	-106.18	702.61	3.26	4.49	2.37	4.28
7530.10	194248.40	18.20	97.05	75.83	-1.45	-12.72	13.47	-138.73	1218.51	3.31	4.23	2.42	4.03
7530.17	206105.40	18.20	84.58	151.40	-3.44	-2.34	10.57	-324.22	2896.03	5.86	4.27	2.04	3.35
7530.24	211296.20	18.00	82.67	133.45	-4.14	-0.57	11.23	-304.52	2698.94	5.76	5.75	1.97	2.98
7530.30	209001.60	18.00	84.95	123.25	-4.81	3.08	11.45	-289.80	1347.52	5.54	7.26	1.88	2.35
7530.37	214012.00	18.00	81.39	117.88	-4.51	-1.28	10.26	-269.00	1153.18	5.62	7.72	1.84	2.69
7530.43	191441.80	18.20	63.10	126.24	2950.81	5.04	8.73	-222.31	-150.54	5.74	7.07	1.78	3.50
7530.50	187195.20	18.20	70.66	35.72	2951.41	-2.77	11.49	-57.36	-2266.70	3.12	7.78	2.11	4.11
7530.56	173658.00	18.40	66.47	52.23	2952.52	-6.74	10.04	-69.29	-1971.04	3.16	6.73	2.21	4.39
7530.63	144370.20	18.80	49.53	89.32	2956.45	0.79	9.65	-35.84	-2608.62	2.68	9.17	1.87	3.74
7530.70	149544.80	18.80	46.91	104.49	2955.79	5.94	8.25	-77.88	-728.73	3.53	8.48	1.78	3.76
7530.76	163928.20	18.80	57.90	108.03	1.80	4.65	9.35	-109.47	-878.34	3.52	8.75	1.72	5.45
7530.83	177278.80	18.60	47.69	176.53	3.04	1.14	2.46	-212.11	-177.42	5.98	7.25	1.45	7.12
7530.89	182110.80	18.60	41.46	181.27	3.03	5.26	1.73	-198.02	882.70	5.78	7.02	1.33	10.76
7530.96	222044.40	18.20	51.10	158.83	-1.30	-1.91	0.86	-234.95	650.19	6.75	3.51	1.63	14.19
7531.02	220969.20	18.20	48.51	141.40	-1.21	-4.47	2.71	-195.12	-1568.83	5.70	2.92	1.63	19.10
7531.09	234642.00	18.00	47.38	133.75	-1.24	-10.38	1.59	-183.83	578.01	5.40	2.26	1.64	20.61
7531.15	214354.20	18.20	57.77	65.30	-0.36	-9.35	9.29	-59.01	-127.24	3.00	3.46	1.87	19.82
7531.22	248873.00	17.80	66.40	51.71	-0.98	-11.53	9.95	-68.47	-1957.56	3.19	3.91	1.99	16.86
7531.29	272362.00	17.60	74.43	36.87	0.34	-7.86	13.20	-63.81	-1705.85	2.87	3.20	2.29	14.46
7531.35	293439.20	17.40	84.72	43.64	0.37	-10.77	12.52	-89.64	-893.79	3.10	4.14	2.44	9.75
7531.42	315644.00	17.20	93.97	43.52	0.89	-10.02	11.41	-97.79	-1095.32	3.32	5.16	2.56	6.21
7531.48	373917.40	16.60	94.55	74.55	0.50	-6.23	8.82	-274.82	3858.93	8.45	4.33	2.50	5.23
7531.55	381678.80	16.60	95.71	74.30	1.17	-2.59	9.67	-270.47	4552.65	8.42	3.68	2.57	4.70
7531.61	380112.80	16.60	98.46	70.87	0.23	-2.21	7.58	-265.99	6400.30	8.35	3.52	2.58	4.61
7531.68	376661.40	16.60	97.26	66.56	-0.09	2.54	7.57	-261.91	4861.28	8.40	2.28	2.69	4.88
7531.75	373759.20	16.60	98.79	61.42	0.18	0.26	8.59	-280.87	4108.09	8.39	1.88	2.72	5.33

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7531.81	337033.40	17.00	98.56	33.92	1.09	-0.81	12.24	-133.36	-1512.10	3.16	2.93	2.83	5.81
7531.88	336462.40	17.00	102.95	40.00	0.77	2.45	12.71	-127.45	93.41	3.51	4.11	2.76	6.13
7531.94	343906.00	17.00	104.05	42.44	3.09	0.94	15.01	-146.16	-737.49	3.61	3.97	2.79	6.53
7532.01	342897.80	17.00	107.15	38.63	4.92	-0.24	16.76	-137.90	1493.97	3.68	8.18	2.51	6.23
7532.07	346952.60	17.00	107.93	45.96	5.42	1.92	17.34	-124.67	3819.70	3.77	7.48	2.58	6.71
7532.14	346850.60	17.00	114.17	47.78	5.92	2.63	16.01	-100.91	5834.71	4.08	7.84	2.59	7.05
7532.20	333252.00	17.00	115.77	49.92	7.00	-1.15	15.93	-85.56	4266.05	3.92	11.96	2.31	6.73
7532.27	319622.20	17.00	114.76	51.69	6.15	-0.19	13.89	-79.43	5539.13	3.92	12.05	2.27	6.53
7532.34	329567.60	17.00	114.39	62.17	3.70	-0.25	14.29	-84.31	3663.33	3.93	7.63	2.58	7.50
7532.40	333378.40	17.00	109.06	67.76	3.27	0.80	14.90	-75.00	2789.61	4.04	7.60	2.58	7.48
7532.47	346323.00	17.00	106.23	66.59	2.28	-2.82	14.25	-88.22	1880.43	3.98	5.70	2.74	7.52
7532.53	359274.40	17.00	104.38	59.97	2.33	-4.68	14.74	-102.19	3021.77	4.08	1.59	3.01	7.46
7532.60	367305.40	17.00	109.07	58.67	2.34	-8.44	15.34	-101.80	4008.33	4.21	1.53	3.06	7.35
7532.66	364458.40	17.00	113.31	59.47	5.42	-10.32	13.38	-117.54	5402.40	4.38	1.58	3.08	7.57
7532.73	359112.00	17.00	114.59	51.34	3.90	-10.06	14.69	-102.49	5201.45	4.26	1.59	3.06	8.99
7532.80	357448.00	17.00	107.54	55.90	4.36	-8.80	14.67	-101.56	5027.30	3.95	1.54	2.84	12.99
7532.86	361993.60	16.80	101.48	58.26	5.99	-8.40	15.60	-113.55	5478.01	3.81	0.32	2.78	17.39
7532.93	362654.20	16.80	94.14	56.06	6.46	-7.63	17.77	-114.05	4703.58	3.65	0.67	2.63	20.07
7532.99	357139.00	16.80	88.75	57.89	6.68	-8.88	20.77	-88.39	2154.36	3.36	1.21	2.46	21.69
7533.06	356607.20	16.80	94.63	62.70	7.42	-12.03	21.19	-104.17	1025.97	3.34	1.21	2.47	21.27
7533.12	339986.00	17.00	106.65	63.23	6.99	-9.63	24.91	-95.73	-126.82	3.56	3.23	2.53	17.61
7533.19	328437.40	17.20	112.86	59.71	6.07	-8.38	23.45	-92.44	-1801.18	3.47	3.19	2.67	14.15
7533.25	321068.80	17.20	117.12	52.95	5.29	-8.93	23.03	-90.08	-3835.67	3.45	2.95	2.80	12.16
7533.32	312388.60	17.20	116.99	41.94	2.90	-5.53	22.41	-103.35	340.95	3.55	2.42	2.95	10.05
7533.39	319803.80	17.20	115.31	34.06	3.69	-5.25	21.52	-101.32	-1298.61	3.62	2.44	2.99	8.92
7533.45	324792.00	17.00	110.24	28.41	4.26	-7.05	19.93	-106.47	-196.23	3.61	0.86	3.13	8.70
7533.52	325318.00	17.00	109.06	27.75	3.86	-8.75	20.42	-96.57	-531.36	3.68	1.84	3.08	8.39
7533.58	317303.20	17.20	107.15	24.39	2.69	-5.59	19.42	-78.50	-440.47	3.81	6.52	2.78	7.00
7533.65	304262.60	17.40	112.03	25.05	2.83	-5.90	17.85	-48.96	-3532.82	3.93	12.27	2.38	5.71
7533.71	235103.60	18.00	93.90	63.12	9.15	-10.39	15.00	-29.23	1474.39	3.22	17.59	1.74	4.27
7533.78	227587.20	18.20	75.30	81.73	258.68	-5.09	13.38	-11.93	962.87	3.26	17.77	1.72	3.10
7533.85	204753.80	18.40	78.65	78.33	258.52	-3.10	13.75	-39.88	-53.71	3.45	16.89	1.79	2.01
7533.91	212317.40	18.20	82.62	82.74	258.64	-2.82	15.18	-53.53	-75.50	3.48	12.02	2.11	1.96

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7533.98	227008.40	18.00	83.27	82.74	257.64	-1.82	17.71	-74.89	1962.54	3.52	6.31	2.51	2.28
7534.04	280719.60	17.40	108.95	44.83	250.88	6.28	22.09	-104.09	-310.58	4.31	0.99	3.12	2.44
7534.11	306261.80	17.00	140.65	30.30	2.72	2.16	25.76	-150.82	759.84	4.65	0.38	3.32	2.16
7534.17	329013.60	16.80	148.03	34.88	0.82	1.98	25.07	-124.60	2161.08	4.58	0.27	3.37	1.87
7534.24	309165.00	17.00	155.39	44.88	2.72	6.26	24.02	-111.31	3405.46	4.83	3.49	3.15	1.68
7534.30	315707.60	17.00	163.88	37.26	5.83	7.17	22.21	-116.07	2832.99	4.85	4.89	3.08	1.27
7534.37	313892.60	17.00	161.87	44.36	5.77	5.34	20.05	-124.61	1796.94	4.83	5.09	3.11	1.09
7534.44	302063.00	17.20	152.88	39.44	2.65	5.40	17.74	-112.89	398.72	4.60	6.56	2.86	1.16
7534.50	290486.60	17.40	146.72	38.34	3.81	4.52	17.85	-88.18	517.07	4.73	13.05	2.36	1.57
7534.57	252841.80	17.80	113.62	79.44	-1.33	0.72	13.00	-76.58	-4822.47	3.73	16.51	1.94	1.58
7534.63	236486.00	18.00	109.40	91.63	-0.63	-1.97	12.45	-52.50	-4884.80	3.46	19.20	1.61	1.50
7534.70	233564.60	18.20	113.31	86.10	-0.04	-2.57	12.99	-41.59	-4753.38	3.55	20.88	1.34	1.68
7534.76	239083.20	18.20	133.24	89.44	1.62	-2.18	14.63	-27.59	-4063.45	3.68	20.68	1.27	1.65
7534.83	254482.40	18.00	142.20	90.92	1.62	-4.35	17.49	-54.82	-4863.99	3.70	14.18	1.70	1.23
7534.90	297712.20	17.60	174.61	42.06	4.51	-3.56	23.13	-89.51	-885.89	4.34	7.50	2.27	1.08
7534.96	301579.00	17.60	172.26	40.18	2.08	-0.10	25.34	-81.05	-1777.98	4.30	4.09	2.55	1.01
7535.03	309471.40	17.40	169.09	44.32	2.08	-2.28	24.95	-56.81	-874.12	3.97	2.25	2.78	0.76
7535.09	306697.80	17.40	152.00	44.58	0.29	-2.54	23.83	-84.77	-478.45	3.58	1.42	2.88	0.71
7535.16	312885.00	17.40	145.39	42.69	0.57	2.66	22.38	-90.79	1774.40	3.41	1.45	2.89	0.76
7535.22	340656.40	17.20	144.28	43.83	1.59	2.43	22.08	-89.01	3024.40	3.54	2.55	2.85	0.83
7535.29	348292.20	17.00	144.56	41.96	3.00	2.29	21.92	-83.58	3092.57	3.97	7.24	2.51	1.95
7535.35	362589.40	16.80	143.31	40.52	2.73	5.72	23.34	-110.20	3237.61	4.70	10.38	2.30	2.07
7535.42	363657.40	16.80	147.10	36.63	4.48	6.05	22.75	-87.82	3025.12	5.27	10.58	2.23	2.28
7535.49	355970.60	16.80	154.78	35.95	4.71	3.20	21.39	-102.58	841.17	5.19	10.54	2.17	2.64
7535.55	345417.40	16.80	159.17	31.14	5.03	2.89	21.44	-101.52	413.55	5.13	9.70	2.18	3.05
7535.62	355632.80	16.80	163.80	34.82	5.10	1.30	19.51	-142.32	56.62	4.80	5.22	2.48	2.33
7535.68	349723.20	17.00	165.80	28.28	4.88	0.73	18.82	-129.57	-342.43	4.18	2.13	2.65	2.58
7535.75	349378.20	17.00	163.48	27.69	4.52	0.24	19.99	-129.25	-669.16	3.72	1.48	2.75	2.57
7535.81	340231.60	17.00	129.48	50.56	198.73	5.31	18.65	-84.78	971.85	3.85	3.71	2.60	2.32
7535.88	348742.60	17.00	123.27	55.40	197.27	2.77	20.21	-83.86	76.39	3.89	3.44	2.67	2.03
7535.94	345858.60	17.00	118.36	54.05	195.98	3.26	21.08	-76.39	944.64	3.96	2.73	2.73	1.81
7536.01	344694.80	17.00	118.46	58.19	195.18	2.08	21.34	-95.62	383.00	4.04	3.53	2.70	1.58
7536.08	330388.60	17.20	130.18	64.93	193.65	4.14	21.60	-97.48	-647.81	4.06	4.76	2.53	1.57

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7536.14	365591.40	17.00	154.20	54.95	-1.60	-2.85	24.07	-183.29	-517.79	5.67	2.72	2.72	1.79
7536.21	363552.20	17.00	152.78	56.67	-1.33	-1.13	22.92	-182.77	-153.64	5.74	4.06	2.54	1.94
7536.27	371845.20	16.80	127.20	80.90	219.67	2.18	21.16	-158.78	244.07	5.80	3.81	2.60	2.18
7536.34	381581.80	16.60	130.86	83.09	219.45	3.98	21.40	-162.14	829.81	6.03	2.92	2.67	2.44
7536.40	401012.40	16.40	121.61	83.61	219.88	0.91	21.10	-151.26	2622.32	6.35	3.44	2.69	2.58
7536.47	385087.60	16.40	134.92	73.83	220.63	1.77	20.10	-95.52	818.62	5.03	3.95	2.64	2.54
7536.54	383549.00	16.40	143.90	74.14	222.90	1.76	20.12	-96.58	1008.31	5.16	3.21	2.74	2.56
7536.60	388037.40	16.40	173.34	54.03	1.49	-3.59	24.79	-159.28	854.03	5.81	3.20	2.83	2.62
7536.67	354404.40	16.80	140.93	77.50	310.02	0.19	21.64	-114.89	-257.02	5.55	3.89	2.82	2.48
7536.73	333826.80	17.00	147.34	82.27	310.10	4.12	21.54	-152.35	-173.21	5.51	3.59	2.92	2.44
7536.80	332127.80	17.20	141.14	86.60	310.49	5.88	23.96	-142.10	887.84	5.28	3.19	3.01	2.32
7536.86	342405.40	17.00	132.69	86.50	309.49	7.06	23.67	-145.28	1942.11	5.53	3.06	3.12	2.20
7536.93	331451.80	17.20	134.44	81.59	309.90	5.32	20.98	-118.01	2569.54	4.98	3.11	3.07	2.05
7536.99	357773.80	17.00	167.81	52.46	0.59	0.22	25.52	-163.78	4454.93	5.44	2.42	3.16	2.11
7537.06	393141.80	16.60	162.55	49.29	-0.44	-4.63	26.34	-177.44	3934.21	5.96	0.97	3.31	2.01
7537.13	397280.40	16.40	161.31	44.66	-1.22	-4.00	25.23	-198.92	3028.52	6.08	0.82	3.35	2.08
7537.19	396000.60	16.40	167.84	47.51	-1.75	-8.08	27.08	-208.32	2695.44	6.14	0.36	3.37	2.27
7537.26	406938.20	16.20	175.05	53.73	-0.01	-5.55	30.24	-213.97	4613.17	7.67	1.31	3.30	2.55
7537.32	402246.80	16.20	193.05	61.61	1.49	-1.79	33.55	-194.74	2636.68	7.62	5.04	3.00	2.40
7537.39	373333.00	16.40	201.29	47.68	3.03	-2.00	35.89	-158.18	3058.10	7.11	6.09	2.83	2.37
7537.45	358778.40	16.60	216.77	47.84	3.98	-3.32	39.84	-158.55	3838.73	7.45	8.67	2.58	2.24
7537.52	337569.00	16.80	240.72	38.69	3.53	-2.80	44.07	-165.72	4577.89	7.28	9.24	2.50	2.21
7537.59	306201.80	17.20	244.97	37.63	1.20	0.08	44.95	-155.82	1590.30	5.69	8.25	2.58	1.75
7537.65	312384.20	17.20	241.78	34.30	4.02	-2.37	44.59	-175.24	2254.40	5.81	4.68	2.85	1.77
7537.72	256105.80	17.80	199.88	40.46	59.64	9.26	43.55	-146.94	3933.12	4.75	7.94	2.29	1.61
7537.78	248182.40	17.80	202.90	36.41	60.86	12.67	42.04	-129.90	3979.81	4.56	7.30	2.34	1.56
7537.85	261286.00	17.80	199.37	40.60	65.24	13.54	41.00	-134.93	3305.84	4.79	7.17	2.45	1.25
7537.91	275216.00	17.60	209.55	32.31	66.50	9.42	41.39	-159.58	3614.60	5.04	7.19	2.48	1.19
7537.98	277822.20	17.60	217.21	39.89	63.15	6.24	40.19	-184.73	3413.41	6.13	9.27	2.40	1.15
7538.04	351773.00	16.80	279.10	43.57	7.75	-1.72	42.49	-195.55	1390.91	7.71	6.20	2.97	1.35
7538.11	371827.40	16.60	275.36	44.44	4.45	-4.67	42.64	-218.26	1839.92	7.82	4.19	3.22	1.34
7538.18	374357.80	16.60	266.26	42.63	2.04	-4.38	42.83	-222.18	1195.68	7.82	4.05	3.18	1.37
7538.24	383745.40	16.60	260.26	49.70	1.23	-0.63	41.18	-204.22	1475.66	7.89	8.06	2.91	1.57

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7538.31	354831.20	16.80	245.28	30.81	-0.85	1.38	40.22	-157.54	2061.09	6.42	7.90	2.84	1.65
7538.37	333492.20	17.00	225.56	22.62	0.34	2.12	38.38	-154.83	1421.86	5.65	8.79	2.79	1.60
7538.44	320175.20	17.20	181.30	48.51	307.06	7.20	32.90	-106.86	664.76	5.15	8.74	2.77	1.65
7538.50	310044.80	17.20	162.67	53.28	304.68	7.02	28.25	-94.19	689.83	4.56	8.90	2.75	1.63
7538.57	312639.00	17.00	144.27	55.73	304.59	4.31	27.12	-86.57	1653.91	4.39	5.06	2.97	1.49
7538.64	341377.40	16.80	132.61	66.27	306.91	6.36	26.25	-97.70	1237.13	4.36	2.97	3.18	1.58
7538.70	356862.00	16.80	121.68	71.19	306.58	1.08	22.58	-106.44	1305.97	4.52	3.86	3.07	1.58
7538.77	361465.20	16.80	151.90	53.26	2.73	-5.42	24.53	-129.82	1442.51	4.85	4.64	2.95	1.65
7538.83	373775.80	16.80	169.95	56.93	5.84	-3.46	25.18	-91.08	2039.74	4.80	9.07	2.68	1.64
7538.90	377151.40	16.80	142.48	81.36	277.61	1.75	22.49	-61.43	1585.66	5.05	11.47	2.56	1.55
7538.96	371854.60	16.80	145.77	77.42	277.11	0.63	20.94	-46.70	2100.28	5.20	12.78	2.43	1.57
7539.03	371340.20	16.80	150.93	90.19	277.91	3.54	22.57	-68.33	3465.88	5.28	9.75	2.66	1.92
7539.09	385089.80	16.60	169.22	88.94	275.62	2.46	25.12	-82.55	4067.87	5.24	11.53	2.57	2.14
7539.16	377965.40	16.60	167.28	88.61	274.12	0.42	26.10	-69.08	3126.73	5.56	12.53	2.49	2.48
7539.23	377738.80	16.60	198.12	65.07	3.21	-5.19	30.63	-117.48	4150.85	5.61	12.11	2.44	2.92
7539.29	353391.20	16.80	166.76	121.09	1721.13	-0.82	29.87	-94.14	1540.92	6.56	11.01	2.40	2.97
7539.36	321083.60	17.00	171.53	109.51	1719.35	-1.67	29.60	-99.59	1605.18	6.94	14.11	2.15	5.26
7539.42	300479.40	17.20	171.62	101.05	1720.16	1.49	29.95	-82.07	197.74	6.58	17.77	1.91	5.12
7539.49	283962.20	17.40	165.11	92.28	1720.77	1.06	28.73	-112.34	-372.86	6.45	15.20	2.03	5.57
7539.55	255115.80	17.80	182.80	88.77	1720.46	4.25	28.39	-96.61	-2706.97	6.16	14.68	2.05	5.99
7539.62	290406.00	17.40	237.33	34.62	4.28	0.73	32.83	-160.41	1830.54	5.89	15.13	2.16	6.57
7539.69	314852.60	17.20	242.48	43.13	5.29	-2.36	37.22	-176.82	538.81	6.13	14.23	2.26	4.13
7539.75	301161.80	17.40	262.71	47.87	5.49	-4.47	37.62	-253.84	490.84	7.06	8.82	2.62	4.40
7539.82	306593.00	17.20	287.28	55.09	5.84	-2.52	41.47	-317.91	2517.71	8.78	5.72	2.83	4.20
7539.88	305598.60	17.20	309.69	52.00	8.10	-2.70	41.15	-353.27	3789.39	9.52	4.95	2.89	3.69
7539.95	284149.80	17.40	295.31	55.74	11.50	-4.71	41.65	-360.28	1127.23	10.03	4.90	2.83	3.32
7540.01	271298.20	17.60	313.53	54.82	7.66	-2.11	37.35	-352.44	828.89	10.06	3.77	2.93	3.66
7540.08	264068.20	17.60	298.68	56.75	8.55	0.18	37.56	-325.66	1340.23	10.13	3.25	2.84	3.40
7540.14	256121.40	17.80	278.48	65.28	2.81	2.45	36.43	-314.33	4827.34	9.76	3.74	2.77	3.22
7540.21	272989.20	17.60	281.88	63.72	-0.66	0.87	41.34	-318.03	7841.93	10.64	4.53	2.78	3.15
7540.28	280050.40	17.60	312.93	64.99	-5.71	-0.35	44.23	-304.29	10134.48	11.50	5.36	2.69	2.97
7540.34	287641.60	17.40	279.33	76.31	-2.12	0.67	46.27	-366.83	12881.10	13.87	5.77	2.64	2.83
7540.41	310619.80	17.20	274.73	78.81	-3.42	0.62	48.22	-388.42	17287.38	14.97	6.59	2.59	3.20

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7540.47	317747.20	17.00	292.76	68.62	-1.23	-0.79	50.25	-346.68	14022.97	15.11	7.67	2.47	3.15
7540.54	299494.00	17.20	248.19	87.35	-2.01	-6.36	44.58	-394.04	10513.06	15.80	8.41	2.29	3.48
7540.60	300340.60	17.20	216.37	86.07	-0.12	-6.66	41.03	-413.55	10255.88	14.65	7.67	2.34	3.80
7540.67	289950.60	17.40	244.83	70.63	2.61	-6.93	43.58	-376.55	7404.18	12.91	7.06	2.36	3.73
7540.73	292657.60	17.40	250.55	71.86	0.91	-5.32	42.16	-368.61	6211.26	12.37	6.23	2.41	3.90
7540.80	290703.60	17.60	243.61	74.22	3.32	-5.96	39.62	-378.59	4657.70	11.90	4.68	2.51	4.37
7540.87	292015.80	17.60	264.62	62.41	4.92	2.28	38.26	-293.43	6818.95	10.33	3.13	2.62	4.61
7540.93	283956.00	17.60	270.89	66.15	3.86	4.72	39.32	-345.79	7383.35	10.91	2.49	2.70	4.53
7541.00	291971.60	17.40	258.95	57.12	0.67	4.27	33.45	-336.58	8768.81	10.65	2.13	2.57	4.99
7541.06	299930.60	17.40	239.34	56.91	3.33	5.13	30.95	-321.31	7139.69	10.24	1.90	2.54	5.51
7541.13	323499.40	17.00	224.20	51.51	4.89	6.59	28.58	-313.47	8387.84	10.24	2.13	2.51	6.17
7541.19	346589.40	16.80	208.22	49.85	6.35	2.66	27.57	-327.27	6680.52	9.78	1.33	2.42	7.67
7541.26	338932.60	17.00	178.06	55.94	7.81	4.58	23.59	-225.06	6103.87	8.18	1.44	2.11	11.53
7541.33	350093.00	17.00	134.81	62.75	7.32	1.88	20.07	-160.94	7624.04	6.31	1.41	1.71	20.07
7541.39	347560.20	17.00	99.85	59.51	5.47	-2.68	15.55	-95.24	7548.12	4.54	1.88	1.24	33.35
7541.46	349397.80	17.00	64.18	65.62	2.38	-7.56	10.46	-71.67	6126.34	2.70	1.63	0.78	48.79
7541.52	354163.00	16.80	28.26	65.78	1.00	-10.27	7.11	-31.88	5249.13	1.64	1.74	0.41	62.37
7541.59	381171.40	16.40	12.24	58.75	0.55	-16.23	3.14	-14.29	4497.53	1.01	1.63	0.19	73.85
7541.65	386401.40	16.40	9.17	60.95	0.51	-12.12	2.15	-8.77	4530.85	0.94	2.12	0.20	78.48
7541.72	394765.80	16.20	8.81	62.58	2.69	-11.53	3.89	-17.64	2857.39	1.06	1.61	0.25	78.05
7541.78	395578.80	16.20	9.98	62.73	4.33	-10.78	3.78	-19.80	3608.88	1.40	3.93	0.28	72.66
7541.85	396789.60	16.20	12.21	69.32	4.81	-13.31	4.07	-25.25	878.57	1.49	6.43	0.28	67.94
7541.92	397563.00	16.20	14.63	68.14	4.77	-13.89	3.52	-30.22	-2488.18	1.88	6.43	0.29	62.44
7541.98	389586.40	16.20	18.28	62.42	5.65	-16.34	5.92	-48.83	-5481.66	2.19	5.42	0.32	54.29
7542.05	349413.20	16.60	23.46	57.21	2.89	-14.17	6.30	-57.37	-5685.11	2.34	5.41	0.34	43.71
7542.11	313117.40	17.00	36.09	55.06	1.91	-15.61	10.23	-66.27	-4488.77	2.68	4.19	0.43	35.98
7542.18	285862.60	17.40	78.28	49.63	0.80	-11.27	17.06	-80.37	-64.72	4.08	2.17	0.86	26.91
7542.24	272223.60	17.60	139.10	42.95	1.93	-4.58	25.01	-119.78	2045.45	4.93	2.37	1.32	17.11
7542.31	267349.60	17.60	194.39	43.10	3.84	-1.29	31.51	-137.19	4059.45	6.26	2.55	1.74	11.79
7542.38	285620.00	17.40	239.10	39.12	7.07	-5.51	37.55	-172.85	5614.79	7.29	2.58	2.15	9.03
7542.44	296130.20	17.40	291.39	32.60	5.28	-4.26	40.26	-210.17	2429.28	8.05	1.55	2.51	6.06
7542.51	304943.80	17.20	300.12	26.81	5.73	-4.65	41.50	-221.70	2938.85	7.94	0.93	2.51	4.51
7542.57	316723.40	17.00	272.00	38.56	7.10	-10.00	37.76	-269.62	5579.12	10.86	1.15	2.41	4.57

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7542.64	312846.60	17.00	271.92	40.24	3.46	-12.85	38.67	-249.95	6110.72	11.03	1.13	2.46	4.43
7542.70	310533.20	17.20	264.89	46.64	3.51	-7.28	38.63	-228.54	5837.14	11.35	1.31	2.52	4.61
7542.77	322431.60	17.00	220.85	49.51	6.52	-6.52	37.88	-223.14	9966.84	11.12	2.00	2.32	7.17
7542.83	345309.00	16.80	231.06	46.97	6.38	-3.93	39.62	-234.10	7823.18	11.27	1.95	2.41	7.06
7542.90	347140.00	16.80	252.92	39.60	4.07	1.55	44.82	-211.67	6842.21	8.69	1.50	2.55	7.24
7542.97	376476.00	16.60	256.43	42.48	5.45	4.12	44.22	-284.54	6862.18	9.03	1.36	2.63	7.47
7543.03	402295.20	16.20	235.64	48.84	3.72	-0.65	47.08	-274.90	9364.11	8.23	1.15	2.37	12.99
7543.10	412928.00	16.00	246.85	52.43	3.88	-0.31	48.96	-256.01	9458.42	8.87	2.19	2.44	12.84
7543.16	418111.60	16.00	221.15	63.78	5.97	-0.91	45.69	-266.60	11892.19	9.21	2.48	2.46	13.68
7543.23	425042.20	16.00	214.42	62.48	6.26	-0.86	44.06	-259.22	12159.69	9.86	2.97	2.42	13.70
7543.29	402271.00	16.20	209.96	58.72	7.55	-1.38	44.13	-214.21	10672.46	9.40	3.00	2.38	13.27
7543.36	415416.40	16.20	227.32	59.33	6.41	0.79	39.48	-248.60	8242.54	11.17	3.07	2.62	7.14
7543.43	417450.00	16.20	221.14	50.46	4.73	2.68	38.49	-271.19	6053.34	10.52	1.02	2.74	4.63
7543.49	408757.60	16.20	231.80	40.44	4.08	-0.65	41.95	-245.71	5055.21	10.02	1.09	2.65	3.75
7543.56	409825.40	16.20	236.55	46.91	2.54	-2.51	43.49	-237.53	5171.57	9.54	0.62	2.64	3.91
7543.62	432019.80	16.00	223.98	53.35	3.76	-1.20	42.64	-251.64	3481.71	9.72	0.61	2.57	4.68
7543.69	408265.40	16.20	184.05	77.82	482.54	4.93	37.12	-189.99	3632.40	9.21	1.05	2.53	5.51
7543.75	394083.20	16.40	190.24	83.79	483.24	5.26	40.11	-181.30	4252.87	9.37	1.38	2.51	6.04
7543.82	349104.40	16.80	170.28	93.70	481.92	7.33	37.04	-209.31	4317.76	9.23	1.40	2.39	7.87
7543.88	266952.60	17.60	115.15	85.18	541.41	19.91	30.74	-152.55	2173.64	7.26	5.35	1.90	6.84
7543.95	250492.40	17.80	111.07	80.61	537.95	17.26	33.31	-174.14	3632.59	6.97	5.59	1.82	6.37
7544.02	256344.20	17.60	161.88	48.88	60.88	9.83	41.27	-245.01	3698.79	6.23	5.07	1.78	5.50
7544.08	250759.20	17.60	128.16	79.31	420.91	14.37	32.23	-193.56	3191.96	5.91	4.74	1.66	4.61
7544.15	275996.00	17.40	134.30	71.60	421.01	14.35	31.70	-168.37	2322.32	5.63	4.37	1.64	3.05
7544.21	321006.80	17.00	162.33	97.30	360.55	-0.97	32.86	-247.02	3358.88	7.11	0.99	1.93	3.65
7544.28	308640.40	17.00	147.07	165.70	357.59	-4.66	15.33	-361.84	3377.13	8.59	1.26	1.69	3.18
7544.34	275893.40	17.40	120.76	185.37	355.11	-13.84	9.13	-325.80	2618.28	8.60	2.40	1.53	3.30
7544.41	261860.80	17.60	152.00	166.02	-3.55	-20.15	15.27	-389.30	2431.95	9.01	2.52	1.54	3.37
7544.48	241361.60	17.80	150.55	192.48	-3.58	-19.28	10.98	-410.44	3513.39	9.28	2.86	1.48	2.98
7544.54	229125.00	17.80	154.70	180.91	-0.97	-19.15	11.83	-376.19	4449.54	8.88	3.59	1.47	3.19
7544.61	212636.80	18.00	156.06	135.04	2.46	-17.88	26.26	-228.88	5802.03	6.88	3.21	1.64	3.40
7544.67	223564.20	18.00	149.91	132.30	3.91	-10.34	29.57	-247.28	6472.41	6.56	2.07	1.69	3.38
7544.74	237486.40	17.80	137.66	154.62	2.12	-13.34	27.36	-279.69	6939.72	7.08	2.36	1.65	3.20

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7544.80	249747.40	17.80	126.55	156.59	1.22	-15.53	28.18	-285.03	3836.38	7.06	2.76	1.73	3.42
7544.87	216169.20	18.20	94.70	192.83	1.13	-16.35	25.63	-246.97	2803.85	6.03	7.81	1.47	2.68
7544.93	211174.80	18.20	84.06	188.11	0.83	-15.99	24.29	-249.32	869.37	5.70	7.65	1.49	2.77
7545.00	211441.60	18.00	101.40	170.27	0.60	-14.40	23.60	-225.04	246.57	5.58	7.69	1.54	3.21
7545.07	217835.80	18.00	130.13	144.13	1.27	-13.33	28.44	-222.44	-859.42	5.41	7.27	1.71	3.21
7545.13	242942.60	17.60	156.00	116.13	2.16	-9.00	33.38	-224.29	155.74	5.68	6.53	1.86	2.99
7545.20	309283.40	17.00	154.62	106.35	407.71	0.85	30.57	-209.87	-1764.53	7.34	0.14	2.31	3.55
7545.26	345767.60	16.80	186.93	82.64	406.44	6.19	33.34	-206.84	517.13	8.01	0.15	2.42	3.70
7545.33	354649.60	16.80	220.35	77.76	405.61	6.74	37.16	-213.12	-298.75	8.36	0.11	2.47	3.14
7545.39	344015.80	17.00	204.61	77.43	406.47	5.52	35.19	-140.29	-1890.44	7.48	1.08	2.14	6.41
7545.46	328355.80	17.20	189.08	92.19	406.34	-2.64	34.71	-132.43	-1504.74	7.34	1.16	1.93	8.85
7545.52	338674.80	17.00	240.99	73.40	0.61	-11.95	45.54	-197.97	-465.91	7.81	1.47	1.85	10.35
7545.59	348734.00	16.80	262.86	80.36	0.16	-11.95	48.55	-196.70	-1900.46	8.08	1.49	1.95	10.16
7545.66	364341.00	16.60	264.87	79.40	1.52	-11.57	49.90	-208.27	-663.11	8.37	1.55	2.01	10.03
7545.72	390378.60	16.20	301.06	73.42	2.72	-5.97	54.42	-263.57	998.36	9.33	0.58	2.37	6.88
7545.79	411936.20	16.00	333.58	56.10	2.32	0.19	56.14	-258.17	3320.51	9.94	0.63	2.59	4.67
7545.85	414654.00	16.00	346.33	37.24	2.12	6.02	55.91	-233.84	3845.52	9.45	0.32	2.63	2.89
7545.92	416499.20	16.00	343.49	30.53	5.73	3.61	58.07	-229.59	4079.71	9.33	0.30	2.51	2.88
7545.98	438364.20	15.80	320.27	56.18	3.14	3.31	59.28	-429.53	3603.13	14.49	0.25	2.51	3.03
7546.05	437418.00	15.80	311.83	58.50	0.86	5.94	59.68	-434.74	3420.52	14.86	0.28	2.48	2.94
7546.12	429126.60	16.00	318.24	55.61	-0.03	6.07	61.86	-431.25	3345.40	14.29	0.22	2.40	3.42
7546.18	421277.00	16.20	253.34	112.28	385.13	7.48	51.56	-388.80	4322.21	14.25	0.61	2.40	4.33
7546.25	411093.80	16.40	250.15	115.13	384.03	5.87	50.13	-382.49	3938.03	14.25	0.99	2.42	6.45
7546.31	370388.20	16.80	255.63	96.97	388.87	7.14	51.20	-182.05	5049.15	8.91	1.65	2.27	7.97
7546.38	332914.60	17.20	249.91	94.13	390.70	1.37	51.54	-118.34	5726.17	7.86	3.78	2.06	8.86
7546.44	290804.00	17.60	237.11	111.77	392.07	2.29	53.06	-104.67	2011.67	7.60	4.70	1.97	9.87
7546.51	263259.40	17.80	299.64	51.15	6.41	-3.02	65.63	-169.10	-603.46	7.84	5.30	1.96	10.03
7546.57	227412.60	18.00	290.26	62.08	6.45	0.93	63.20	-178.26	-2142.46	7.68	6.36	1.86	8.33
7546.64	183272.20	18.40	295.60	92.73	4.27	0.37	57.86	-204.24	-5718.16	7.63	5.80	1.96	7.30
7546.71	198087.80	18.20	319.64	91.70	0.20	2.26	58.20	-252.51	-4537.79	8.20	4.16	2.13	6.34
7546.77	251834.00	17.60	325.68	80.24	4.70	3.08	56.48	-291.57	-1255.53	8.71	3.86	2.19	4.82
7546.84	264565.00	17.40	345.41	73.03	6.64	4.09	59.72	-272.21	-503.03	8.13	3.09	2.13	3.64
7546.90	264277.60	17.40	343.14	84.40	10.21	3.65	64.15	-249.46	657.55	8.62	3.92	2.00	3.17

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7546.97	325860.20	16.80	354.57	54.45	36.13	9.96	75.23	-240.60	3753.38	9.35	3.83	2.05	2.70
7547.03	322993.40	17.00	344.02	51.02	40.25	10.24	75.25	-214.86	2630.81	8.65	3.31	2.00	2.80
7547.10	290532.40	17.40	341.46	53.99	37.95	7.77	77.77	-181.03	470.54	8.11	2.62	1.94	3.59
7547.17	300743.20	17.40	310.96	63.34	37.56	6.80	74.75	-215.53	1076.81	8.21	2.40	2.01	4.37
7547.23	334347.80	17.20	295.26	39.15	35.12	4.73	76.46	-247.09	1778.47	8.46	0.86	2.09	5.21
7547.30	329378.00	17.40	297.57	32.08	10.07	-0.18	74.84	-234.08	922.49	7.46	0.83	1.97	5.91
7547.36	361373.60	17.00	301.06	31.39	12.43	-0.54	76.93	-264.00	1241.01	8.46	0.89	2.04	5.81
7547.43	376778.40	16.80	301.50	19.87	14.54	3.15	75.58	-249.35	2816.43	8.39	0.99	2.11	4.74
7547.49	380420.00	16.80	319.72	21.86	19.31	4.95	78.92	-204.48	3083.56	8.51	2.20	2.01	4.27
7547.56	381205.80	16.80	334.91	24.86	23.99	5.99	76.96	-184.87	2993.46	7.55	2.07	2.03	3.35
7547.62	371893.40	16.80	306.63	22.46	26.15	6.49	69.58	-183.91	2477.51	7.51	2.34	1.99	2.47
7547.69	342331.60	17.00	279.09	19.20	24.09	7.24	65.37	-152.10	2717.06	6.35	2.60	1.84	2.34
7547.76	334970.20	17.00	270.71	12.27	36.87	5.87	66.85	-177.06	2116.33	6.34	2.53	1.82	2.24
7547.82	311219.20	17.20	241.69	8.26	31.72	3.73	58.72	-177.52	2364.35	5.60	1.34	1.80	1.97
7547.89	299830.60	17.20	219.68	10.29	23.06	4.89	54.58	-182.24	1021.24	5.61	0.70	1.82	1.83
7547.95	300878.40	17.20	245.48	13.20	22.21	1.34	63.52	-206.08	817.57	5.93	0.44	1.91	1.79
7548.02	248768.20	17.80	203.09	70.49	18.92	0.55	50.37	-175.33	-2579.78	4.96	4.24	1.60	1.59
7548.08	252914.00	17.80	200.34	81.35	6.42	-1.69	49.87	-177.16	-3012.78	5.00	4.20	1.61	1.62
7548.15	263855.00	17.60	238.93	85.51	2.60	1.73	60.45	-190.91	-3497.03	5.46	4.20	1.71	1.45
7548.22	270260.40	17.60	252.37	83.37	4.47	0.98	60.97	-205.37	-3208.25	5.45	4.21	1.74	1.47
7548.28	268278.20	17.60	226.63	80.07	2.63	1.34	53.33	-183.82	-1609.62	5.06	4.22	1.75	1.33
7548.35	333311.00	17.00	300.25	28.54	2.29	3.48	69.06	-232.12	2327.92	6.61	0.11	2.20	1.43
7548.41	333489.80	17.00	292.66	26.33	-2.29	1.41	67.05	-219.18	2692.81	6.71	0.14	2.16	1.37
7548.48	332471.60	17.00	277.46	20.76	-1.36	-0.47	60.38	-210.54	2983.80	6.31	0.29	2.00	1.25
7548.54	323065.40	17.00	291.45	15.22	-0.56	-0.42	57.82	-170.41	5262.79	5.91	0.36	1.87	1.13
7548.61	317136.60	17.00	289.57	19.36	-0.43	3.12	52.52	-159.17	4943.06	5.82	0.80	1.62	1.26
7548.67	313423.40	17.00	266.22	20.04	2.62	0.55	49.64	-126.35	3817.39	5.53	0.80	1.57	1.32
7548.74	310812.60	17.00	271.04	24.65	4.21	5.05	43.15	-120.86	3510.76	5.13	0.99	1.49	1.42
7548.81	315734.60	17.00	260.27	26.41	3.91	6.28	37.92	-111.62	2917.06	5.14	0.84	1.50	1.47
7548.87	324982.60	17.00	244.47	32.45	3.88	2.33	35.32	-141.15	680.28	5.51	0.87	1.57	1.65
7548.94	333875.80	17.00	233.70	34.47	3.60	-0.42	33.01	-139.73	-44.68	5.56	0.60	1.67	2.10
7549.00	334745.40	17.00	201.07	37.09	1.60	-2.99	29.64	-153.72	852.07	5.19	0.59	1.53	5.21
7549.07	327648.20	17.20	187.55	36.25	-0.23	-4.67	33.22	-149.82	1205.88	5.00	0.62	1.66	8.04

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7549.13	340994.00	17.00	174.14	39.00	0.62	-7.24	29.77	-176.31	2238.66	5.79	0.61	1.74	8.54
7549.20	347242.80	17.00	165.25	36.45	-1.07	-5.99	30.40	-165.99	4022.81	5.59	0.51	1.85	8.89
7549.27	348707.00	17.00	181.32	32.80	-2.44	-5.40	33.32	-134.80	5632.98	5.46	0.34	1.99	8.74
7549.33	366044.60	16.80	202.90	31.08	-1.50	-1.12	30.59	-138.53	4183.43	5.81	0.33	2.12	5.98
7549.40	402872.60	16.40	191.30	42.01	-0.79	-2.50	27.69	-158.04	6952.95	7.53	0.47	2.19	3.85
7549.46	393799.60	16.60	178.59	42.67	-1.06	-1.34	30.28	-135.29	6544.45	6.73	0.47	2.21	3.99
7549.53	348055.80	17.00	184.82	56.15	1.54	3.62	28.86	-111.70	6087.90	6.33	0.48	2.03	4.02
7549.59	321705.40	17.20	163.49	47.29	2.88	2.22	24.43	-126.52	4881.34	6.15	0.58	1.75	3.85
7549.66	283191.40	17.60	150.86	45.45	2.23	2.24	22.41	-124.53	4897.49	6.18	0.99	1.54	3.80
7549.72	229998.00	18.00	159.01	28.94	1.61	3.45	22.04	-78.35	1764.07	4.60	0.82	1.36	3.30
7549.79	229603.00	18.00	194.26	27.60	4.02	2.72	22.32	-57.49	2287.92	4.75	1.06	1.31	2.90
7549.86	273021.00	17.60	195.97	21.44	2.59	-3.72	22.80	-66.36	909.58	5.24	1.34	1.39	2.64
7549.92	290796.80	17.40	192.61	31.48	1.96	-2.01	26.14	-81.00	1835.89	5.15	1.33	1.57	2.89
7549.99	317410.80	17.20	210.83	38.09	1.84	-1.51	35.18	-76.88	3301.72	4.79	1.41	1.65	3.41
7550.05	374548.40	16.60	230.83	50.12	1.90	-0.02	40.68	-151.92	14882.55	6.96	1.49	1.77	4.51
7550.12	377823.00	16.60	220.38	48.51	0.02	1.88	43.12	-164.80	14262.66	7.57	2.99	1.72	4.57
7550.18	374629.80	16.60	205.48	48.00	1.92	5.23	43.41	-152.31	15416.83	7.60	3.41	1.70	4.45
7550.25	358972.40	16.80	209.09	45.37	2.70	6.94	43.45	-144.58	14545.52	7.56	3.65	1.64	3.96
7550.31	353442.60	16.80	206.28	41.10	3.11	5.23	38.27	-156.72	14050.91	7.69	3.49	1.61	3.04
7550.38	300396.60	17.40	171.04	25.40	7.76	3.50	31.99	-72.60	3884.79	5.55	5.02	1.34	1.70
7550.45	266541.60	17.60	142.43	28.26	7.70	0.27	26.79	-68.56	4268.88	4.62	4.44	1.25	1.54
7550.51	283958.00	17.40	184.76	27.55	15.96	-2.21	32.52	-91.66	5708.09	5.18	4.55	1.36	1.55
7550.58	306041.00	17.20	180.15	31.72	15.62	-4.54	33.29	-97.59	7027.65	5.87	4.63	1.43	1.94
7550.64	294468.00	17.20	163.29	28.05	15.09	-4.83	33.67	-58.71	6474.32	5.76	6.60	1.38	2.65
7550.71	309010.20	17.00	176.71	33.02	10.30	-4.97	33.07	-76.59	6453.38	5.46	4.78	1.50	2.80
7550.77	309347.60	17.00	187.28	37.99	10.65	-5.44	33.37	-82.80	6832.69	5.83	4.37	1.58	2.97
7550.84	263291.00	17.40	154.89	23.90	0.16	-2.31	28.55	-78.79	3791.55	5.02	5.24	1.36	2.89
7550.91	250985.20	17.60	193.46	20.12	18.68	0.25	30.44	-81.37	4147.60	4.96	5.19	1.47	3.02
7550.97	220401.20	18.00	167.00	45.68	313.18	6.87	25.60	-71.32	3680.70	4.67	3.12	1.66	2.77
7551.04	211738.00	18.20	140.24	57.70	312.51	7.50	20.96	-67.10	-778.61	4.13	3.13	1.48	12.46
7551.10	176997.00	18.60	107.61	44.16	388.41	19.03	19.40	-48.14	-1232.36	3.08	6.35	1.19	12.06
7551.17	209006.20	18.40	74.47	60.32	389.31	12.90	14.27	-25.16	-6736.05	2.21	4.75	1.05	25.01
7551.23	219358.20	18.20	14.40	62.52	371.17	9.49	5.98	9.95	-9356.45	1.22	5.57	0.65	36.00

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7551.30	264826.60	17.80	16.39	47.66	76.95	-0.72	5.73	-5.11	-6362.78	0.73	6.02	0.27	47.35
7551.36	286170.20	17.60	14.62	41.81	78.60	-2.62	5.19	0.25	-4790.71	0.83	6.78	0.25	50.26
7551.43	347045.00	17.00	15.37	50.86	1.69	-17.38	4.21	-3.61	-8183.93	0.97	4.47	0.31	61.58
7551.50	336487.20	17.00	13.81	48.97	2.12	-16.32	3.73	-7.85	-1207.61	1.00	4.58	0.26	62.58
7551.56	319662.20	17.20	15.29	60.42	2.44	-14.50	4.71	-13.33	-3919.71	1.02	6.71	0.23	60.64
7551.63	294543.20	17.40	15.27	54.34	2.38	-11.43	2.48	-11.64	-4168.81	0.93	9.12	0.19	58.60
7551.69	274451.40	17.60	14.25	68.48	1.48	-14.79	4.72	-10.85	-2750.01	0.88	9.24	0.19	58.42
7551.76	244490.20	17.80	13.30	87.60	1.49	-6.42	1.86	-11.48	5766.86	0.88	10.27	0.17	57.87
7551.82	272499.80	17.60	12.39	95.30	2.12	-3.92	0.70	-5.26	6515.92	0.78	10.08	0.15	59.10
7551.89	311986.60	17.20	10.37	97.93	1.57	-6.91	0.70	-2.53	9290.79	0.66	6.81	0.14	65.59
7551.96	352636.80	16.80	8.40	92.22	1.78	-6.80	2.28	2.78	6093.26	0.61	3.72	0.13	71.46
7552.02	384748.60	16.40	7.94	75.20	1.93	-7.33	2.10	0.48	6460.99	0.55	3.03	0.13	73.77
7552.09	432131.60	16.00	6.40	49.08	307.96	-8.98	6.56	4.89	-1777.59	0.50	0.34	0.12	78.47
7552.15	425567.60	16.00	6.01	49.14	308.27	-14.12	6.26	-24.20	-6255.17	1.36	0.33	0.18	77.08
7552.22	405503.40	16.20	4.77	31.59	426.45	-11.31	7.08	-24.29	-7136.90	1.73	1.69	0.20	71.09
7552.28	420282.40	16.00	6.37	45.02	425.82	-11.62	7.56	-38.77	-8372.20	2.18	1.98	0.20	67.89
7552.35	421771.60	16.00	16.29	62.83	426.71	-7.54	9.61	-33.89	-6247.73	3.70	8.73	0.21	57.08
7552.41	385592.40	16.40	47.11	68.45	121.41	-6.79	12.06	-55.03	-4873.47	4.66	9.30	0.64	42.34
7552.48	383992.60	16.40	121.95	59.61	119.79	1.55	21.55	-39.18	-634.81	4.93	10.41	1.03	29.01
7552.55	395860.80	16.20	172.24	74.98	1.60	1.82	27.89	-61.78	1756.20	5.68	11.20	1.37	19.20
7552.61	379185.60	16.40	242.06	71.54	2.12	3.98	37.02	-70.25	3675.89	6.53	11.11	1.85	7.19
7552.68	363977.80	16.60	273.95	55.17	1.48	7.59	40.49	-74.73	1175.22	6.24	6.36	2.12	3.22
7552.74	383223.20	16.40	266.81	59.97	2.52	3.05	43.94	-67.32	3320.03	5.89	7.27	2.08	5.01
7552.81	324156.20	17.00	195.12	63.57	3.00	4.49	37.07	-46.81	641.75	4.89	12.83	1.72	4.24
7552.87	304320.60	17.20	145.93	62.80	2.98	5.75	30.35	-14.84	-913.70	3.98	14.89	1.72	3.78
7552.94	278620.00	17.40	95.87	57.24	2.95	2.23	27.10	-4.58	-1027.59	3.12	17.59	1.40	3.60
7553.01	228668.00	17.80	79.57	79.65	5.02	4.34	26.24	-27.71	-1626.14	2.31	15.57	1.51	3.90
7553.07	226510.40	17.80	57.62	100.12	281.51	11.83	19.22	-6.01	-1607.50	2.42	14.08	1.48	1.94
7553.14	271922.40	17.40	88.47	91.71	282.28	10.12	24.94	-28.91	585.52	3.18	7.40	1.68	2.50
7553.20	279140.40	17.40	121.65	81.73	281.43	8.58	30.70	-32.53	1940.51	4.13	3.36	1.64	2.74
7553.27	272129.20	17.60	117.61	78.79	282.03	13.63	28.86	-29.41	2291.06	4.20	1.40	1.72	2.51
7553.33	322677.00	17.20	140.45	50.31	279.55	11.57	30.00	-3.79	3367.13	4.71	2.27	1.66	2.09
7553.40	337060.80	17.00	201.51	30.32	2.12	9.33	41.34	-31.69	2688.57	5.19	3.62	1.65	1.81

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7553.46	346883.60	16.80	186.88	31.89	-0.90	7.12	40.69	-39.48	3149.43	6.16	4.37	1.84	1.48
7553.53	346374.00	16.80	196.05	29.03	-0.86	5.66	41.84	-64.82	2684.02	5.73	5.44	1.91	1.53
7553.60	349327.80	16.80	209.61	25.04	-1.18	3.65	42.16	-43.74	3389.29	5.68	9.85	1.81	1.53
7553.66	315589.80	17.00	163.69	32.61	-1.83	1.20	34.95	-33.48	2560.62	4.85	13.87	1.71	1.27
7553.73	291206.60	17.40	117.29	24.50	-2.40	-1.15	25.65	-46.34	2093.68	3.97	12.90	1.71	1.16
7553.79	270577.00	17.60	135.98	21.89	-0.45	0.93	25.36	-38.86	2106.47	2.68	12.16	1.53	1.13
7553.86	271992.00	17.60	135.27	21.53	0.86	1.27	24.29	-61.28	2223.88	2.97	10.91	1.65	1.58
7553.92	257876.00	17.60	117.31	28.99	0.62	3.99	20.26	-73.10	1200.54	2.83	5.62	1.76	2.22
7553.99	262259.60	17.60	133.62	23.80	0.93	0.97	24.50	-102.23	367.19	3.25	0.59	1.92	2.80
7554.06	244140.00	17.60	151.23	33.76	1.40	1.67	23.04	-95.25	1290.00	3.50	0.59	1.99	4.08
7554.12	232917.00	17.80	111.67	49.04	178.97	4.62	17.47	-77.25	1622.77	3.57	0.61	2.07	5.90
7554.19	172498.20	18.40	70.98	90.63	180.65	3.11	13.14	-45.13	-1977.66	2.61	2.40	1.59	6.07
7554.25	183970.40	18.40	71.02	88.02	180.42	-2.39	12.87	-58.42	-3646.61	2.58	4.06	1.39	11.68
7554.32	199989.60	18.20	62.52	91.13	180.18	-2.46	10.58	-52.44	867.85	2.23	5.36	1.09	17.76
7554.38	218575.00	18.20	35.18	84.72	180.45	-5.67	9.58	-30.66	-727.79	1.77	8.22	0.67	22.97
7554.45	228355.60	18.20	38.02	69.72	2.49	-12.61	8.89	-35.35	-898.36	1.49	10.55	0.28	27.26
7554.51	285740.80	17.60	37.31	80.12	198.18	-1.93	6.63	-22.66	2685.70	2.81	9.02	0.78	29.47
7554.58	301712.60	17.40	40.87	86.72	197.58	-1.67	7.58	-15.72	5436.23	2.99	9.48	0.92	29.62
7554.65	305783.20	17.40	78.43	88.65	198.15	0.33	9.51	-21.39	3397.32	3.56	10.97	1.03	26.42
7554.71	308088.80	17.20	133.77	89.59	197.84	2.90	10.58	-17.08	5119.70	4.54	9.47	1.41	20.50
7554.78	306908.00	17.20	176.26	89.44	197.82	5.65	12.83	-16.96	3403.89	5.00	9.93	1.75	14.81
7554.84	314530.00	17.20	184.23	40.90	-0.04	-7.88	14.08	-18.50	1254.06	3.91	12.53	1.27	19.92
7554.91	316759.60	17.20	176.25	35.60	0.86	-6.99	12.64	-16.72	785.58	3.55	11.36	1.09	22.62
7554.97	324904.00	17.20	133.64	35.42	1.71	-9.88	9.29	-2.62	2712.99	2.84	8.71	0.89	29.88
7555.04	272998.60	17.80	79.42	56.78	9.50	-5.74	9.27	13.14	1115.22	1.71	10.79	0.48	29.15
7555.10	284978.20	17.60	60.24	51.95	10.00	-6.93	9.27	4.21	2303.78	1.08	8.01	0.38	33.53
7555.17	261512.20	17.80	56.28	57.16	11.06	-2.41	9.72	-2.96	4707.11	0.83	7.13	0.48	30.01
7555.24	202914.60	18.20	49.39	69.04	14.13	1.45	12.61	-35.61	2285.81	0.90	6.74	1.11	20.69
7555.30	178524.40	18.40	44.46	83.12	14.21	8.14	12.30	-32.08	-1633.74	1.29	6.58	1.86	9.97
7555.37	199978.20	18.20	39.43	63.27	5.74	3.76	10.82	-44.58	-2624.74	1.53	5.39	2.36	9.85
7555.43	171936.40	18.40	35.51	62.46	6.47	4.42	10.89	-34.76	-4036.10	1.54	6.46	2.31	5.29
7555.50	178870.20	18.40	100.44	52.00	6.24	5.13	15.06	-34.09	-4203.65	2.09	4.83	2.49	1.66
7555.56	225019.20	18.00	173.69	38.33	2.34	3.17	17.85	-1.18	-1480.99	2.29	4.22	2.16	2.78

Depth	XRF	XRF Live Time	Nb (ppm)	Mo (ppm)	Ba (ppm)	Pb (ppm)	Th (ppm)	U (ppm)	P (ppm)	S (%)	Cl (%)	K (%)	Ca (%)
7555.63	234912.00	18.00	230.32	13.95	1.56	-0.38	23.81	-18.30	-289.91	2.27	4.27	1.65	3.81
7555.70	256553.40	17.80	281.71	6.25	2.54	2.48	28.58	-34.58	1595.42	2.42	2.03	1.37	5.01
7555.76	274370.20	17.80	342.75	9.48	1.61	5.34	35.26	-42.97	3271.15	2.79	0.98	1.49	6.29
7555.83	271544.40	17.80	319.48	16.16	1.04	4.79	35.26	-49.17	2604.16	2.46	0.69	1.37	8.30
7555.89	273309.40	17.80	268.65	12.42	1.77	-2.38	31.82	-72.33	3510.91	3.78	0.98	1.10	10.30
7555.96	275566.20	17.60	304.67	16.71	2.32	-0.84	31.24	-62.91	3197.47	4.14	1.21	1.22	11.33
7556.02	290284.40	17.40	362.97	15.69	1.49	-3.91	29.69	-56.54	4385.27	4.42	0.84	1.33	11.96
7556.09	296820.40	17.20	306.84	26.73	3.22	-10.63	23.20	-40.75	6003.32	4.89	3.47	1.09	15.59
7556.15	303572.00	17.00	308.90	24.09	3.79	-9.92	20.99	-39.35	7172.39	5.20	3.95	1.17	13.96
7556.22	314484.00	17.00	383.00	27.52	3.61	-5.41	23.34	-34.03	4297.81	4.29	3.76	1.81	12.58
7556.29	318397.00	17.00	323.57	27.32	3.78	-6.47	21.46	-57.08	2680.11	4.16	3.53	1.94	11.95
7556.35	325544.00	17.00	290.24	33.18	5.17	-6.63	23.90	-89.59	1482.57	4.59	3.52	2.18	12.79
7556.42	306111.20	17.20	371.87	20.20	2.95	1.58	25.92	-101.64	-1384.40	4.17	5.32	2.29	8.69
7556.48	318911.60	17.20	327.32	14.88	2.17	0.60	22.30	-125.24	368.77	6.41	6.59	2.04	7.68
7556.55	289246.40	17.40	230.50	7.60	2.34	4.64	17.52	-105.37	3175.14	5.63	7.93	1.33	8.11
7556.61	268039.20	17.60	197.48	8.42	0.82	3.76	14.93	-76.83	5411.45	5.07	10.15	0.84	8.48
7556.68	238536.40	17.80	120.85	7.15	0.26	2.93	7.12	-45.73	4956.97	4.38	12.81	0.28	6.42
7556.75	250483.20	17.80	15.10	18.72	-0.65	-4.13	3.22	-41.00	5412.10	3.99	14.51	0.08	11.78
7556.81	249865.60	17.80	13.73	25.73	-0.54	-7.05	2.87	-7.41	3528.14	1.14	13.29	0.08	22.64
7556.88	285911.60	17.60	14.09	38.24	-0.01	-13.95	1.90	-6.19	1027.53	1.04	13.12	0.09	33.62
7556.94	324541.60	17.20	14.09	48.34	0.69	-17.00	1.94	-6.95	-213.32	0.93	11.58	0.07	45.78
7557.01	360147.80	17.00	14.91	54.89	-0.97	-18.49	3.83	-2.56	171.55	0.51	9.06	0.07	57.69

Table D-7, MSCL Mining Suite:

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
Ft	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7445.07	170922	9	1597.2	5088.57	34184.5	5378.53	14024.57	821.93	459570.41	0	303946.67
7445.13	165018	9	1654.09	6005.35	42607.76	6511.16	17017.13	1039.31	455609.84	0	132384.62
7445.20	273658	7	1481.46	1723.83	14393.68	1053.71	2772.97	150.43	281487.36	0	388742.65
7445.26	335892	7	339.14	728.82	5282.67	435.12	1083.76	56.4	332717.9	0	520114.24
7445.33	177759	9	1706.06	5723.97	34623.91	5447.48	14211.09	840.1	476421.98	0	315058.62
7445.39	94792	9	1635.23	5306.94	32619.97	4778.94	12450.96	725.42	475688.82	0	376509.15
7445.46	144070	9	1997.35	6735.64	41025.35	7588.48	19748.36	1260.13	527104.64	0	15067.26
7445.52	176220	9	1795.51	6179.59	40849.98	6485.58	16854.93	1023.99	460070.21	0	159035.04
7445.59	160496	9	1749.01	6447.33	42627.1	7410.99	19329.06	1231.11	488567	0	0
7445.66	162045	9	1698.35	6737.92	44581.36	7898.59	20578.98	1317.3	470875.4	0	0
7445.72	196806	8	1110.77	5911.32	40438.64	6400.35	16679.42	1006.81	420790.68	0	280516.45
7445.79	172408	9	1476.37	6210.43	48935.63	7194.67	18775.83	1177.71	461768.56	0	35183.74
7445.85	169505	9	1517.23	5987.3	50542.43	7219.91	18806.3	1179.78	453713.77	0	0
7445.92	177975	9	1366.08	6496.18	51014.52	7602.91	19844.83	1252.85	451727.33	0	21898.48
7445.98	187336	8	1533.1	5601.71	48917.43	6145.9	16025.88	973.49	438023.88	0	172412.48
7446.05	173576	9	2148.14	6079.08	51501.71	7582.54	19894.7	1269.24	479302	0	0
7446.12	169737	9	1470.45	5790.98	54358.26	7158.86	18723.11	1178.86	465957.1	0	22523.71
7446.18	165540	9	1458.13	6226.15	51050.21	7519.99	19709.26	1245.04	465385.77	0	22003.48
7446.25	173445	9	1092.11	6023.74	47923.09	6480.79	17002.47	1035.71	460741.32	0	183563.71
7446.31	173943	9	1636.49	6355.46	53092.18	7583.1	19866.68	1248.04	439440.56	0	55169.27
7446.38	176698	9	1149.48	6178.16	54435.97	7441.29	19358.51	1203.71	332330.45	77030.33	0
7446.44	168545	9	1561.43	6380.42	52765.1	7835.4	20498.18	1303.36	467899.07	0	0
7446.51	170287	9	1073.82	6054.79	48649.52	7191.11	18747.45	1178.67	474185.14	0	12568.38
7446.57	165904	9	1732.41	5917.52	53411.77	7401.75	19308.26	1218.88	472116.31	0	15027.12
7446.64	218623	8	927.24	5043.22	39513.68	5377.63	13951.9	820.88	402567.8	0	363726.98
7446.71	121559	9	1065.4	6337.98	43742.66	7773.73	20338.05	1318.63	558955.45	0	9316.79
7446.77	170805	9	1472.47	7020.65	47581.49	8145.79	21303.95	1345.48	358954.25	57199.93	0
7446.84	169237	9	1281.29	7041.47	44097.45	8388.42	21940.71	1407.29	450436.94	0	0
7446.90	263464	8	475.6	3054.52	17874.67	2774.32	7202.12	402.04	383828.49	0	493213.73
7446.97	160042	9	1367.73	6313.47	44947.05	7484.85	19519.42	1236.78	476931.1	0	0
7447.03	52256	10	2849.95	0	26683.76	2533.1	0	359.93	8064.2	378085.33	395543.79
7447.10	130645	9	1828.52	6291.8	44811.57	7141.02	18692.45	1169.14	461518.94	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7447.17	161022	9	2044.46	6062.34	50934.45	7460.58	19488.29	1233.69	472670.08	0	0
7447.23	137003	9	2366.56	6247.99	45070.75	7439.48	19408.99	1252.13	554284.7	0	17084.82
7447.30	125621	9	2194.85	5793.77	46032.72	7271.03	19092.29	1230.95	584565.59	0	0
7447.36	125198	9	1622.76	6120.34	43476.3	7201.01	18879.97	1217.96	585281.66	0	0
7447.43	193161	8	2133.4	4864.59	33190.37	4421.42	11534.72	665.66	427151.17	0	422852.17
7447.49	244533	8	1098.97	3904.18	23858.09	3307.39	8604.37	489.5	377267.99	0	469690.03
7447.56	140276	9	1487.85	5212.05	49056.41	5610.43	14693.32	900.72	506076.72	0	236857.49
7447.62	74098	9	1931.9	5821.69	40427.22	6144.25	16206.38	1028.58	661690.53	0	167903.02
7447.69	72833	9	2030.66	5019.46	40735.41	5776.78	15075.09	957.89	698098.55	0	103181.7
7447.76	179338	8	1599.11	5295.23	41452.3	5059.04	13212.85	787.74	447875.96	0	333857.96
7447.82	148904	9	2004.66	5986.69	46493.49	7082.73	18604.8	1171.06	518014.76	0	37945.06
7447.89	179840	8	1872.31	6314.56	50933.96	6904.42	18019.9	1114.53	442866.15	0	77513.62
7447.95	114874	9	2285.5	5873.06	45482.42	6932.17	18191.53	1154.97	594548.37	0	36390.85
7448.02	113571	9	1150.78	5404.2	48887.15	6541.7	17132.58	1076.77	575567.71	0	69243.17
7448.08	194260	8	2163.75	6058.55	47219.84	6586.96	17140.72	1043.56	422748.57	0	210299.65
7448.15	239453	8	1367.11	5007.21	34367.6	4595.24	11941.59	689.12	394478.43	0	427964.77
7448.22	176814	9	1919.65	5649.23	35993.53	4864.61	12668.98	734.66	347332.92	51798.16	406844.94
7448.28	150670	9	1864.81	6278.43	46181.05	6957.46	18145.89	1128.13	394161.25	93476.23	26782.01
7448.35	154185	9	1773.25	6617.64	44553.39	7719.33	20138.61	1283	465536.16	0	29282.81
7448.41	195635	8	4094.41	7615.12	39374.2	6641.77	17338.32	1051.74	407809.1	47303.95	255180.16
7448.48	192996	8	4572.49	7416.01	36737.1	6080.59	15836.18	957.58	469517.79	0	254628.71
7448.54	172854	9	4795.23	8262.25	43762.65	7297.44	19072.93	1195.42	487300.68	0	112419.74
7448.61	179107	8	1651.31	5890.81	50312.9	6411.33	16765.08	1020.11	462941.87	0	178255.71
7448.67	189592	8	2769.15	6391.56	46073.63	6047.69	15827.75	945.92	449758.81	0	288179.28
7448.74	215322	8	2122.05	5872.58	39425.79	5482.68	14335.61	840.42	411451.76	0	367809.18
7448.81	250585	8	1009.52	4659.83	40123.08	4612.58	12002.77	693.32	360456.85	0	463552.2
7448.87	261608	8	873.56	4013	30835.08	3799.79	9879.76	564.9	355442.38	0	474499.58
7448.94	296772	7	417.71	2302.64	17820.83	2016.41	5219.91	291.56	403536.46	0	507159.04
7449.00	266326	8	0	3462.39	27607.38	3161.92	8247.06	461.39	356477.43	0	482852.18
7449.07	109662	9	1356.82	5564.61	53159.96	6075.63	15946.38	956.52	411790.39	0	37804.28
7449.13	236288	8	1753.26	5150.61	33342.96	4522.59	11791.02	673.63	398548.67	0	440032.94
7449.20	160888	9	2155.64	6147.38	46489.13	6924.57	18129.89	1134.09	497036.04	0	0
7449.27	214744	8	2300.11	5472.09	42974.1	4955.6	12949.7	756.19	353538.28	42411.99	393157.97

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7449.33	197198	8	2271.61	6006.26	43046.55	5926.13	15445.33	923.27	444936.86	0	293618.66
7449.40	173301	9	2537.33	6734.31	53001.28	7747.44	20297.96	1277.74	449252.02	0	0
7449.46	172660	9	4171.71	7478.03	48529.07	7562.58	19820.15	1250.58	474864.21	0	30423.66
7449.53	197068	8	1754.76	6192.73	41855.66	6217.12	16273.02	972.72	430137.42	0	262608.48
7449.59	232560	8	2278.19	5675.45	33409.33	4775.57	12489.58	726.57	385012.22	0	443504.84
7449.66	201972	8	2219.89	5926.28	41011.96	5830.52	15188.21	901.05	411945.3	0	325125.03
7449.72	178913	9	3019.69	6507.63	47932.6	6811.05	17868.44	1098.71	454492.5	0	135110.83
7449.79	204963	8	1912.29	5742.78	38465.15	5480.27	14360.23	845.03	414892.64	0	346132.71
7449.86	170674	9	3660.42	6773.73	47842.27	6923.18	18064.22	1119.34	485358.84	0	117191.41
7449.92	216279	8	2536.66	5386.93	34904.33	4972.87	12929.98	755.23	415313.12	0	407830.37
7449.99	215148	8	2305.66	5526.29	39448.81	5204.28	13595.7	799.83	410516.07	0	384218.46
7450.05	218043	8	2499.71	5634.41	31078.01	4683.42	12217.63	706.2	400906.75	0	425302.22
7450.12	213812	8	5318.95	6250.31	33977.44	5823.36	15236.09	912.26	412591.39	0	354275.02
7450.18	207701	8	2031.47	6137.19	40707.21	6006.16	15689.13	941.8	415719.14	0	315314.69
7450.25	233191	8	1754.83	5250.85	31292.3	4823.82	12614.39	729.24	392888.87	0	443306.6
7450.31	218845	8	3577.18	6614.11	33375.6	5303.15	13834.03	817.23	420207.64	0	406244.63
7450.38	183218	8	2717.29	5305.64	67147.23	5787.2	15015.57	895.84	384364.49	0	248435.7
7450.45	182249	8	1462.59	6291.89	48184.07	6724.6	17565.39	1077.5	451060.76	0	157229.07
7450.51	206715	8	1760.28	5588.4	38372.01	5512.08	14406.42	852.05	410084.43	0	334360.55
7450.58	190640	8	1994.37	6073.48	38644.07	6012.6	15726.95	942.41	445024.57	0	277630.63
7450.64	190098	8	1603.54	5381.63	37359.4	5492.08	14372.41	856.27	435987.08	0	286823.13
7450.71	233946	8	1542.47	5038.48	31775.86	4664.27	12195.09	706.76	345143.96	37097.09	437290.36
7450.77	205947	8	1021.46	5640.51	37282.78	5779.79	15110.59	893.36	405248.28	0	360242.03
7450.84	174777	9	1688.78	5967.59	55414.54	7350.81	19199.29	1198.08	441231.79	0	70239.07
7450.91	255251	8	674.12	3684.94	25596.05	3382.28	8785.99	499.12	366244.15	0	481958.63
7450.97	249644	8	772.47	3166.68	20131.6	2858.25	7457.5	417.2	386868.21	0	477374.9
7451.04	243829	8	515.31	3042.5	16832.07	2737.03	7091.9	396.87	411083.22	0	486996.28
7451.10	81674	9	0	4693.87	34323.32	4711.94	12259.57	694.44	293625.59	0	301888.48
7451.17	200915	8	2093.06	5617.76	37372.18	5636.75	14732.42	873.23	424927.83	0	292369.56
7451.23	174319	9	2634.23	6170.67	42702.66	6450.83	16931.06	1049.56	474179.72	0	158121.19
7451.30	203195	8	2422.24	5621.8	37741.89	5320.12	13879.14	824.73	423753.44	0	339536.91
7451.36	175768	9	4195.18	6432.88	47781.65	6393.78	16752.84	1024.61	485625.05	0	141784.58
7451.43	194837	8	1359.28	5126.52	39917.95	5052.04	13140.18	776.62	437157.79	0	327819.23

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7451.50	205807	8	1740.49	5309.23	40941.74	5199.75	13533.73	791.57	423959.64	0	344583.2
7451.56	225623	8	2284.83	5222.51	38684.95	4536.77	11792.5	685.87	393310.71	0	424981.34
7451.63	219805	8	2240.11	5558.31	38815.03	4939.38	12868.91	748.18	406081.1	0	406608.61
7451.69	156633	9	2115.26	6039	42229.9	5780.61	15110.08	902.54	413372.5	0	288561.77
7451.76	187391	8	1533.21	6524.7	48747.18	7058	18459.98	1134.5	413625.09	0	181804.63
7451.82	224286	8	2494.88	5542.71	33849.27	5013.32	13095.21	766.56	402246.09	0	412307.36
7451.89	208009	8	3619.75	6358.97	28351.3	5066.13	13201.11	777.11	438044.89	0	373670.5
7451.96	189204	8	3155.77	6020.23	32997.01	5617.71	14706.42	879.9	451935.26	0	327977.21
7452.02	163333	9	4538.24	7553.95	41802.07	6860.23	17971.36	1111.34	508097.94	0	159369.26
7452.09	157070	9	2441.01	6236.67	43573.97	7089.32	18548.43	1163.7	501915.21	0	0
7452.15	239744	8	2541.14	6046.98	29611.85	5212.35	13564.11	794.38	387603.48	0	461364.99
7452.22	158193	9	2438.75	6299.87	46789.82	7200.02	18837.28	1196.6	509537.56	0	0
7452.28	152835	9	2557.7	6320.22	48768.08	7174.17	18790.81	1189.66	509114.61	0	0
7452.35	166375	9	2359.01	6049.84	48649.83	6425.33	16786.42	1030.04	465433.7	0	189507.84
7452.41	171250	9	1655.35	6219.33	45720.2	7262.48	19090.58	1183.88	455131.34	0	127088.34
7452.48	162478	9	1852.1	6488.74	45758.75	7271.98	18957.15	1202.43	484555.99	0	11450.69
7452.55	158491	9	2618.08	6242.11	46857.07	6798.38	17781.41	1108.44	495407.79	0	70792.84
7452.61	232578	8	2080.02	5411.39	31587.96	4743.16	12399.4	714.85	391414.15	0	461364
7452.68	192125	8	4729	6063.59	60623.68	5226.92	13472.31	800.71	417630.46	0	323029.87
7452.74	196685	8	3958.95	5760.35	34579	4898.96	12779.69	752.98	435200.62	0	358427.46
7452.81	174186	9	2062.9	6320	45932.95	6219.17	16229.62	988.97	463494.42	0	174184.33
7452.87	233967	8	683.58	3170.68	19063.34	2788.98	7221.21	406.92	388005.19	0	480465.38
7452.94	259487	8	927.19	3082.4	22378.25	2796.89	7257.59	408.04	382190.69	0	486441.17
7453.01	169326	9	1669.22	6179.92	51220.8	7619.98	19859.32	1258.96	444505.67	0	22094.36
7453.07	187325	8	655.36	5832.3	47013.81	6574.51	17188.77	1040.84	430625.47	0	197432.91
7453.14	80278	9	0	4362.44	29534.52	4339.66	11235.74	640.76	359936.7	0	336158.07
7453.20	183311	8	1264.71	5524.6	40123.98	5803.76	15160.98	905.3	443174.05	0	285966.66
7453.27	175432	9	957.28	5394.89	41522.97	5846.34	15267.23	919.57	464303.26	0	264620.3
7453.33	142420	9	1405.33	5938.93	42419.16	7048.95	18447.17	1156.5	531632.73	0	82696.94
7453.40	150409	9	1620.06	5907.93	47144.14	6836.46	17813.98	1130.63	526433.87	0	0
7453.46	134299	9	1953.01	5840.88	48586.43	7354.6	19286.91	1234.65	529796.83	0	0
7453.53	165831	9	2344.28	5858.57	49185.77	6847.84	17875.54	1126.28	490974.74	0	0
7453.60	157350	9	1972.11	6339.64	37233.91	6611.07	17302.93	1068.62	491712.7	0	108429.05

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7453.66	157706	9	2567.83	6033.13	49246.06	7189.55	18770.33	1180.89	478874.36	0	0
7453.73	216884	8	1384.94	5524.43	28067.03	5049.78	13201.96	771.16	409634.68	0	418981.13
7453.79	182624	8	1603.97	5529.15	43945.36	5944.61	15613.21	940.17	433141.59	0	240693.75
7453.86	163164	9	2324.86	6687.86	47750.44	7468.45	19625.44	1243.71	480630.51	0	17427.57
7453.92	226341	8	1943.48	5029.68	41021.04	5000.13	13066.18	766.74	383447.35	0	415408.36
7453.99	259182	8	1461.38	3530.2	20860.09	2836.85	7409.38	412.86	394347.12	0	487709.12
7454.06	248408	8	1936.88	4146.96	37481.01	3650.43	9527.83	544.03	349802.13	0	464767.09
7454.12	262622	8	639.18	2363.19	20591.75	2016.46	5225.04	289.49	408903.07	0	512046.6
7454.19	275708	7	6862.84	3313.03	21970.68	3123.3	8118.9	458.79	384700.08	0	488015.05
7454.25	237367	8	1575.52	5508.38	27087.71	5013.47	13108.35	759.31	400951.23	0	436231.74
7454.32	234048	8	1682.28	3530.22	39179.17	3381.48	8789.74	503.56	367474.34	0	456468.49
7454.38	212750	8	1950.94	5441.07	45689.61	5076.1	13036.49	759.74	397406.19	0	425058.18
7454.45	221477	8	1434.36	6185.28	44780.29	6256.94	16284.72	961.8	415472.69	0	298392.56
7454.51	240127	8	1529.49	5814.94	41759.25	5851.5	15197.75	893.84	372958.03	0	418809.89
7454.58	207750	8	2120.26	6219.73	28862.25	5806.57	15212.03	898.76	436850.53	0	366960.93
7454.65	219414	8	1069.36	5273.55	39295.84	5253.08	13762.65	796.01	424366.9	0	233470.68
7454.71	180455	8	0	2522.4	32115.65	2362.61	6172.21	339.54	386139.65	0	463714.24
7454.78	149624	9	1326.44	5090.58	35443.83	5176.93	13545.69	780.34	461515.78	0	370485.33
7454.84	157367	9	1614.77	4882.58	35200.1	4462.8	11671.94	665.13	425661.86	0	421424.22
7454.91	172788	9	1379.58	5112.54	27979.58	4526.05	11871.93	669.47	380934.6	0	456859.93
7454.97	194175	8	1589.26	5746.99	41537.72	5761.58	15153.06	889.3	455892.06	0	228083.58
7455.04	234541	8	638.55	3285.43	17031.6	2721.05	7099.06	395.59	387591.05	0	482493.69
7455.10	193666	8	0	5518.09	55376.48	6669.43	17591.06	1064.39	514940.27	0	70232.2
7455.17	195566	8	2362.63	6064.29	55495.82	5913.42	15499	910.13	407802	0	213030.47
7455.24	252674	8	1830.22	5908.87	57002.76	6023.24	15814.13	920.15	349015.98	0	300590.27
7455.30	219956	8	2353.69	6144.3	37943.92	5441.55	14287.5	824.37	402072.11	0	340333.33
7455.37	191575	8	1917.85	6085.32	45670.67	5912.21	15510.03	911.21	463405.49	0	222408.8
7455.43	195416	8	2025.02	5585.44	33435.43	4739	12445.74	708.17	396670	0	364395.15
7455.50	239022	8	2018.9	5960.97	33561.98	4807.6	12606.14	712.66	322689.31	0	430900.35
7455.56	317691	7	4110.09	5412.73	17985.17	2929.72	7708.19	420.15	265606.45	0	333919.69
7455.63	324870	7	2762.81	4173.88	13713.5	2671.79	6974.31	379.01	264236.84	0	333625.5
7455.70	291796	7	6813.32	5948.48	21097.75	2650.71	6949.53	388.36	367000.93	0	192710.81
7455.76	300163	7	8245.85	6822.39	26713.42	3324.26	8614.94	491.7	438300.12	0	33796.39

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7455.83	297591	7	3820.85	4926.86	20073.79	2601.92	6788.18	368.32	303775.58	0	327268.48
7455.89	186074	8	2410.83	5679.53	97274.77	8226.52	21539.31	1355.49	469632.07	0	16287.75
7455.96	303014	7	462.28	2693.9	19410.61	2350.43	6039.86	337.58	400021.63	0	513402.99
7456.02	168233	9	2990.98	7871.71	43925.95	8712.61	22752.19	1475.87	501722.07	0	20682.91
7456.09	179948	8	4268.32	8196.14	44229.53	7963.48	20801.25	1297.24	478627.06	0	151088.63
7456.15	208448	8	2513.69	6121.99	51827.25	6642.36	17100.28	1037.36	435221.03	0	261642.46
7456.22	280690	7	13509.77	3755.59	22927.15	3382.38	8704.82	491.58	394854.99	0	466068.55
7456.29	206612	8	2101.15	6181.67	42358.74	6308.47	16401.41	977.97	413394.37	0	301144.25
7456.35	175778	9	1806.84	7049.25	44816.63	7790.34	20310.52	1274.27	455075.49	0	93002.63
7456.42	214585	8	4296.16	6899.82	35344.05	5874.85	15316.54	907.18	438143.31	0	361961.06
7456.48	168004	9	2627.82	6657.64	61257.44	7441.16	19374.05	1208.84	366238.45	79035.69	0
7456.55	189038	8	2360	5828.61	53741.86	5805.08	15032.34	893.79	426277.37	0	265122.72
7456.61	234629	8	4402.86	6800.71	38720.82	5757.14	14904.11	870.77	349334.48	40150.91	381697.54
7456.68	207877	8	3099.95	6079.15	56594.75	5540.67	14301.18	844.75	373004.32	57733.16	297431.57
7456.75	128757	9	2309.33	5728.53	38710.7	6342.05	16532.9	1014.66	573637.55	0	180777.71
7456.81	129530	9	1743.06	6444.28	37759.74	6707.18	17482.15	1083.22	563787.51	0	202713.55
7456.88	178226	8	2159.15	5670.67	44920.81	5851.81	15141.95	907.67	481716.14	0	279076.44
7456.94	221375	8	1322.35	4733.29	32063.87	4350.37	11262.08	651.82	415058.97	0	458547.66
7457.01	207021	8	1567.17	5382.66	43048.95	5297.27	13756.27	812.37	432054.99	0	386510.86
7457.07	169687	9	1178.37	4714	32791.87	4541.55	11795.58	686.92	430630.11	0	430341.08
7457.14	214375	8	413.23	2608.72	18658.48	2319.08	6003.34	336.98	420174.25	0	495286.27
7457.20	121398	9	1699.56	4345.46	39568.24	4628.47	11932.18	702.65	376838.61	0	304129.37
7457.27	176205	9	2498.61	5881.95	58904.22	7065.11	18320.71	1157.07	451429.75	0	47508.06
7457.34	168315	9	2723.32	6637.68	54885.55	7445.15	19311.24	1224.68	494441.66	0	45895.78
7457.40	200087	8	2541.09	5546.62	35659.65	5212.8	13560.51	798.27	444636.27	0	341792.53
7457.47	176557	9	3445.86	6434.31	45507.49	6619.17	17267.13	1069.42	489843.24	0	128768.84
7457.53	187785	8	4732.13	7128.44	42016.19	6052.07	15728.84	944.33	472743.58	0	251857.14
7457.60	165199	9	2628.97	6294.45	48987.94	7057.94	18279.51	1148.8	486865.87	0	0
7457.66	179640	8	3102.89	7043.06	50205.92	7703.75	20102.69	1273.93	467796.11	0	42683.72
7457.73	179406	9	4040.66	7616.57	47090.36	7247.91	18856.42	1168.8	410456.43	65247.22	77080.34
7457.80	182719	8	4405.47	7679.69	45747.73	7337.38	19066.33	1193.58	477642.63	0	98800.56
7457.86	169085	9	4669.85	7876.75	44988.01	7276.42	18990.75	1201.03	511716.67	0	50376.48
7457.93	226927	8	2165.05	5615.7	35965.88	5308.79	13762.76	814.64	417877.13	0	373207.19

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7457.99	196554	8	3294.44	6761.52	43762.64	6864.25	17866.38	1087.54	454173.17	0	241109.39
7458.06	176824	9	4051.36	6991	46643.1	7314.44	19031.66	1195.62	498967.53	0	106081.81
7458.12	182244	8	3125.38	6551.53	45031.89	6791.23	17602.15	1087.28	475242.77	0	194900.99
7458.19	205804	8	2168.61	5730.36	45799.95	5758.67	14935.74	887.78	413161.06	0	303852.15
7458.25	261503	8	4109.97	4298.59	20547.12	3428.16	8889.1	505.38	389910.92	0	473182.44
7458.32	204897	8	1802.7	6472.54	41645.51	6212.3	16154.7	972.02	438636.2	0	285171.59
7458.39	191456	8	4363.24	7446.46	40274.61	6588.67	17091.49	1043.91	470925.72	0	251133.78
7458.45	197284	8	3851	6818.4	42886.9	6162.17	15982.05	963.74	463212.05	0	277602.14
7458.52	182063	8	1773.68	6245.3	39508.19	6659.89	17356.55	1060.18	441125.15	0	218594.08
7458.58	245912	8	2031.77	5708.63	30735.18	5056.19	13150.82	758.89	346571.73	43269.33	442542.19
7458.65	251245	8	2153.36	5345.12	37465.79	4497.02	11651.11	676.52	371949.48	0	466533.58
7458.71	174433	9	2654.62	6295.97	52331.84	7082.92	18407.32	1147.53	482721.63	0	66058.21
7458.78	194230	8	5236.94	7263.9	43270.4	6123.63	15974.61	958.16	470328.84	0	220451.42
7458.85	254246	8	1845.2	4132.14	35181.75	3464.83	8974.59	509.93	357172.26	0	461361.69
7458.91	232726	8	1287.09	5058.55	43506.67	4946.51	12857.84	746.91	390876.39	0	406992.01
7458.98	250529	8	1707.5	5307.95	41611.2	5004.49	13076.75	763.23	372707.13	0	424904
7459.04	220523	8	2584.75	5587.15	65171.39	5926.59	15437.38	928.45	372556.26	0	280067.41
7459.11	187700	8	2267.48	5844.15	63578.62	7225.19	18796.84	1171.6	433530.97	0	23640.31
7459.17	200905	8	1097.8	6209.82	47329.04	6925.95	18035.13	1095.07	425753.68	0	275139.58
7459.24	112820	9	2141.14	5832.62	42216.22	6277.66	16269.01	989.1	423257.43	0	143572.92
7459.30	176080	9	2415.9	6294.53	51579.5	7215.15	18765.4	1171.79	466350.61	0	83912.47
7459.37	190638	8	2463.2	6044.82	44336.02	6028.98	15722.68	940.55	461081.77	0	268327.11
7459.44	173818	9	1569.39	5477.58	41155.39	5262.21	13750.24	809.97	399795.03	0	371969.33
7459.50	205407	8	2684.28	6377.72	48662.22	6166.56	16066.61	959.58	424921.98	0	285629.25
7459.57	175008	9	2813.84	6702.3	56100.09	7530.41	19721.76	1249.56	491192.2	0	26793.78
7459.63	181969	8	2744.14	6761.61	54276.99	7074.27	18412.08	1143.36	455787.34	0	124015.39
7459.70	229069	8	2358.81	5650.74	40271.12	5115.4	13265.15	775.25	397707.53	0	409757.29
7459.76	191592	8	3948.23	5986.03	60587.26	6139.76	15913.07	964.31	438869.66	0	199259.4
7459.83	171624	9	4262.71	7321.87	49873.71	7613.71	19875.84	1256.37	501871.76	0	87574.54
7459.90	171071	9	3205.53	6898.65	51604.99	7410.55	19320.54	1222.47	481923.7	0	25291.67
7459.96	188227	8	3258.8	6398.52	51500.51	6418.92	16797.75	1022.22	471814.2	0	187550.91
7460.03	201296	8	3620.73	6456.61	47781.62	6053.97	15801.79	947.43	436258.36	0	300806.79
7460.09	183526	8	3660.85	6896.22	52411.75	6591.1	17201.24	1058.62	477405.06	0	192048.43

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7460.16	200355	8	1532.78	6000.02	43000.05	6080.82	15842.12	947.24	449945.82	0	297757.33
7460.22	195052	8	3368	6557.16	49790.65	6859.21	17807.77	1098.82	392806.66	54620.02	137690.55
7460.29	223675	8	2496.66	5504.32	41838.94	5232.53	13581.27	805.12	409917.3	0	371173.16
7460.35	166961	9	1613.15	6455.68	53781.39	7899.19	20533.33	1311.31	479165.35	0	0
7460.42	169576	9	2329.9	6484.7	45283.08	6903.23	18016.61	1120.5	496625.1	0	132546.08
7460.49	153577	9	2034.44	5973.27	56939.48	6945.2	18120.48	1136.1	507623.12	0	47509.84
7460.55	202388	8	2816.77	6191.9	53812.05	6385.88	16620.58	1007.16	425825.49	0	217190.83
7460.62	215470	8	3243.9	5917.13	67568.52	5759.66	15053.72	896.24	414883.12	0	234435.99
7460.68	230638	8	2537.13	4900.63	68254.89	5158.27	13430.33	799.32	394418.64	0	301879.1
7460.75	219162	8	2316.32	6170.6	42138.21	5658.19	14743.12	881.9	433457.69	0	324455.7
7460.81	205864	8	1509.65	6081.46	44018.78	6347.6	16556.74	1001.1	440689.34	0	283933.32
7460.88	191426	8	2476.5	5824.33	63664.91	6803.94	17759.4	1086.91	433261.18	0	127812.85
7460.94	285053	7	1027.2	2417.46	18887.16	1901.78	4907.85	271.06	406511.98	0	503042.57
7461.01	233253	8	1621.12	4774.07	53929.09	4836.63	12591.42	734.44	353456.41	0	398230.92
7461.08	297150	7	626.94	2444.43	20499.6	2167.61	5612.69	311.72	403249.28	0	499384.78
7461.14	223568	8	1188.18	5314.32	43306.58	5385.47	14029.11	819.7	398534.74	0	372131.46
7461.21	141830	9	1850.96	5348.99	74286.67	7355.38	19063.35	1202.33	427133	0	0
7461.27	178373	8	2979.75	5937.65	55555.46	6994.75	18205.84	1127.24	472453.89	0	98294.61
7461.34	164578	9	1781.39	6523.49	49661.65	7558.14	19740.69	1238.02	486817.56	0	71871.35
7461.40	165000	9	2303.47	6162.1	53783.73	7222.05	18796.15	1175.47	480674.86	0	25414.91
7461.47	189331	8	2055.63	6159.61	68601.23	7482.02	19429.45	1203.85	423406.73	0	34564.56
7461.54	181543	9	2919.19	6530.61	60057.99	7510.75	19527.2	1219.73	462966.47	0	16303.59
7461.60	222308	8	2773.93	5978.18	37283.91	5578.16	14472.9	852.64	424535.02	0	360952.28
7461.67	174752	9	2546.36	7053.39	55019.49	8025.45	20959.06	1338.11	463601.57	0	22738.43
7461.73	189744	8	2525.28	6937.03	43091.46	6771.23	17528.93	1069.21	444916.19	0	190027.1
7461.80	252181	8	1581.12	4298.59	26414.3	3604.44	9363.2	536.43	370925.21	0	468461.44
7461.86	191725	8	3452.33	6823.27	58957.74	6422.23	16702.23	1017.76	415584.86	0	153577.86
7461.93	225949	8	2984.56	6578.18	44020.27	5782.4	15053.92	890.69	396244.79	0	371459.12
7461.99	233875	8	2394	6008.33	35767.22	5271.54	13722.93	801.86	387730.04	0	438625.71
7462.06	189169	8	2982.18	7126.7	48951.36	6648.45	17384.83	1067.43	461955.09	0	199306.47
7462.13	193759	8	2983.36	6000.9	70582.97	7051.29	18364.45	1137.3	421474.52	0	93034.38
7462.19	237221	8	7614.69	5939.65	46394.97	6126.82	15941.25	947.8	397209.67	0	333971.21
7462.26	266367	8	2779.25	3005.34	15339.44	1814.07	4699.57	259.07	356028.06	0	490413.38

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7462.32	216404	8	2077.43	5081.94	42825.81	4333.94	11242.11	644.92	382933.78	0	456563.15
7462.39	164156	9	3196.19	6014.46	48496.49	5919.21	15448.72	933.71	493289.78	0	251208.39
7462.45	181263	8	2598.96	5420.41	31296.39	4729.59	12289.16	724.88	453519.65	0	400214.91
7462.52	170128	9	1361.14	4884.1	25741.7	4273.9	11091.78	634.31	383981.51	0	450064.43
7462.59	266173	8	901.16	3547.33	19850.91	3181.52	8266.61	462.92	381860.32	0	483316.79
7462.65	170569	9	2606.68	6351.78	43490.39	6894.13	17995.32	1115.95	465393.17	0	58590.69
7462.72	206320	8	623.19	3259.19	18938.46	2804.72	7265.46	405.8	416959.15	0	471421.17
7462.78	182362	8	2723.24	5292.37	31480.54	4515.28	11754.75	682.97	449711.04	0	391780.4
7462.85	243024	8	720.72	2485.7	12449.94	2021.14	5247.22	287.33	429680.8	0	493942.29
7462.91	154893	9	2348.37	6825.37	39484.25	7167.88	18688.86	1166.54	494598.15	0	117993.91
7462.98	163500	9	1859.63	6884.71	39987.03	7603.08	19860.18	1256.98	467307.84	0	76098.92
7463.04	212611	8	1061.22	4788.75	31108.75	4515.92	11747.93	682.37	413393.46	0	404923.47
7463.11	173770	9	1916.63	6181.34	42914.42	7087.92	18526.56	1156.03	453304.06	0	73690.28
7463.18	225638	8	0	4608.01	30764.49	4609.93	11984.11	687.93	392582.35	0	431871.12
7463.24	112805	9	1554.64	5751.13	40799.16	6701.22	17511.77	1108.18	497454.6	0	0
7463.31	235450	8	489.4	3706.6	19149.87	3404.61	8840.29	503.75	397934.71	0	471901.83
7463.37	261033	8	0	2579.64	11116.75	2151.07	5565.33	307.96	421327.23	0	500481.68
7463.44	190504	8	1523.42	5326.92	32726.91	5215.47	13606.37	794.15	435553.75	0	383091.12
7463.50	136849	9	1685.14	6444.79	39667.99	7381.7	19266.97	1217.81	532920.38	0	48482.06
7463.57	281191	7	532.81	2858.04	17800.91	2456.55	6352.51	357.2	399688.1	0	496825.15
7463.64	293794	7	329.8	2007.85	14731.93	1729.01	4463.52	247.17	425358.56	0	505562.15
7463.70	178630	9	2062.79	5792.53	57582.49	6865.4	17873.99	1109.09	474392.73	0	12651.52
7463.77	175278	9	1624.46	6585.44	45405.75	7179.47	18678.15	1163.98	466278.43	0	92518.23
7463.83	201604	8	1653.79	5936.52	34042.53	5634.07	14635.19	865.57	428367.63	0	352922.16
7463.90	152362	9	1471.69	5646.56	46569.78	6392.86	16619.57	1002.49	423762.07	0	186342.72
7463.96	176252	9	1874.06	6180.56	42679.95	6731.14	17677.27	1089.66	475361.62	0	136322.86
7464.03	246423	8	697.42	3568.86	24508.61	3136.03	8206.86	459.37	372341.5	0	479933.23
7464.09	222660	8	1341.2	4923.89	35793.97	4971.43	12980.52	754.36	396249.51	0	444372.89
7464.16	229486	8	678.98	3445.92	18981.63	3043.4	7883.35	444.13	398772.38	0	475906.53
7464.23	226674	8	4316.58	5558.13	27378.91	5000.92	13008.33	759.96	423734.65	0	442613.68
7464.29	214002	8	1414.03	4643.76	30245.31	4499.39	11718.35	675.32	423381.31	0	452066.58
7464.36	277425	7	0	2232.87	13064.07	1956.83	5089.69	278.41	418263.58	0	500418.94
7464.42	250078	8	664.29	3542.8	23302.15	3233.33	8426	477.31	372515.2	0	477822.15

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7464.49	191907	8	1544.17	5619.34	38453.85	5636.87	14709.7	874.55	432097.64	0	297269.7
7464.55	276481	7	498.47	1900.69	9103	1488.18	3841.47	209.29	445791.26	0	500355.3
7464.62	157793	9	1677.11	5901.27	44679.02	6551.19	17019.32	1052.41	508139.72	0	85419.94
7464.69	245104	8	843.79	3773.73	25449.62	3375.75	8766.38	498.57	370376.55	0	464132.15
7464.75	277575	7	598.5	2696.63	22502.79	2409.82	6272.67	348.6	386618.94	0	503328.39
7464.82	188425	8	1880.66	5336.77	44825.58	5500.35	14262.67	861.04	452990.46	0	311235.15
7464.88	218548	8	1367.21	5471.6	33179.26	4830.3	12626.62	732.81	408023.11	0	457617.78
7464.95	249917	8	562.03	2388.81	11500.37	1827.51	4720.42	259.38	444634.24	0	494329.38
7465.01	261905	8	527.74	2312.97	12761.64	1866.79	4844.76	266.86	436342.77	0	499355.51
7465.08	154179	9	2859.05	7102.8	53550.01	8030.48	20894.11	1335.73	520537.69	0	15663.93
7465.14	150400	9	2954.92	6573.33	46104.3	7054.58	18380.64	1159.68	514347.76	0	58955.72
7465.21	133131	9	3033.94	6591.09	50391.49	7804.7	20437.56	1315.62	552407.49	0	26341.46
7465.28	187988	8	3348.28	7365.02	48112.82	7597.68	19926.42	1242.93	429864.06	0	113795.57
7465.34	193991	8	2381.05	6092.99	53555.34	6578.46	17138.27	1044.43	420184.67	0	134968.16
7465.41	200637	8	1625.51	5067.47	47025.66	5007.2	13099.97	756.66	371878.08	0	358824.11
7465.47	176316	9	3062.2	6385.88	47175.26	6434.83	16809.11	1021.76	451480.43	0	206227.48
7465.54	166435	9	1809.09	5585.61	39002.83	5488.72	14252.84	851.31	440541.85	0	270676.56
7465.60	163282	9	2236.41	6495.35	49120.96	7395.87	19280.46	1217.61	477722.93	0	34632.67
7465.67	159254	9	1736	5290.65	55281.41	6222.86	16262.38	988.27	448379.99	0	138901.33
7465.73	212238	8	1067.29	4906.48	47769.01	5192.27	13585.86	796.69	393468.93	0	366438.65
7465.80	262494	8	559.27	2743.26	15623.64	2336.87	6049.71	336.65	403733.29	0	502490.98
7465.87	191668	8	1968.02	5818.83	38721.05	5897.26	15342.5	908.81	356040.27	52003.5	290849.46
7465.93	237242	8	964.54	4035.91	22260.5	3599.5	9363.27	536.05	380961.75	0	468670.8
7466.00	220080	8	2015.52	5470.51	37922.1	5047.96	13151.02	768.63	384771.75	0	412287.04
7466.06	189284	8	1195.2	5581.59	53984.36	6507.98	17086.28	1042.83	438384.63	0	46522.49
7466.13	195076	8	1532.87	5191.41	63544.1	6168.44	16191.3	985.96	413664.83	0	114775.34
7466.19	185762	8	2231.17	5590.96	52678.91	6377.93	16651.63	1014.58	427401.42	0	166316.78
7466.26	206377	8	6539.57	8608.38	39200.54	6556.84	17117.2	1020.72	362267.23	0	411661.8
7466.33	209879	8	4444	7896.73	39111.77	6563.27	17161.92	1025.65	395850.51	0	345741.23
7466.39	230787	8	3659.39	6348.15	44690.7	5293.72	13807.45	801.87	358979.75	0	454194.51
7466.46	213999	8	1153.73	5299.88	38643.39	5154.46	13511.45	783.58	381490.19	0	409170.14
7466.52	218081	8	718.94	4749.35	34174.87	4533.83	11851.14	681.44	366503.23	0	439056.11
7466.59	253702	8	1024.47	4242.65	25527.52	3873.16	10083.7	574.37	351193.77	0	481435.8

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7466.65	280861	7	545.29	2597.4	13639.37	2122.44	5529.51	304.47	417186.1	0	504039.17
7466.72	165769	9	1476.84	7071.47	45367.93	7678.07	20084.84	1274.37	485480.66	0	0
7466.78	161529	9	4151.18	8416.06	47033.44	8247.77	21579.59	1385.9	487848.06	0	9146.42
7466.85	263869	8	578.1	2425.88	13028.41	2004.73	5198.59	284.85	425942.73	0	502314.39
7466.92	177763	8	2649.26	6435.13	56528.29	8020.26	21055.74	1320.83	418018.5	0	22003.3
7466.98	196489	8	2197.15	5635.31	59830	6665.66	17491.33	1068.87	397856.74	0	104929.64
7467.05	248472	8	1464.77	4915.82	39735.19	4930.93	12885.32	747.24	344005.42	0	422907.69
7467.11	247755	8	1330.57	4160.23	29585.8	3515.13	9188.3	523.12	361861.56	0	479792.63
7467.18	96924	9	2722.19	5235.87	43910.66	4698.14	12324.63	716.92	432744.8	0	387281.27
7467.24	198377	8	4219.38	5405.8	47499.35	5999.86	15639.28	940.61	448379.47	0	241926.67
7467.31	225162	8	1112.13	4708.48	34609.55	4775.22	12477.58	720.06	404241.47	0	391087.98
7467.38	173121	9	1163.49	6070.85	47111.14	7134.52	18667.9	1176.12	481492.03	0	18074.68
7467.44	162136	9	1180.22	5864.17	46169.17	7066.8	18525.82	1147.79	499464.29	0	54471.91
7467.51	236541	8	0	4047.26	41258.38	4146.08	10836.84	618.45	395524.81	0	275784.4
7467.57	195808	8	1009.7	5053.39	43086.37	5308.07	13900.39	815.51	423318.08	0	389651.37
7467.64	242470	8	0	4560.37	41030.93	4550.67	11866.7	691.59	391491.19	0	278288.9
7467.70	213224	8	989.77	4981.17	35668.31	5084.97	13257.79	767.52	386337.58	0	390438.36
7467.77	194402	8	1081.47	5767.23	58561.34	7066.11	18535.88	1141.07	435772.97	0	47239.13
7467.83	220327	8	0	4837	49876.18	5238.57	13660.75	792.91	366714.77	0	360758.34
7467.90	295690	7	0	2900.37	40589.9	2780.45	7254.51	401.2	306448.8	0	325546.31
7467.97	319137	7	0	2181.9	34129.3	2149.74	5612.07	310.12	251740.78	0	407529.88
7468.03	320969	7	0	2167.29	28540.76	1949.23	5099.65	283.27	260606.89	0	388587.79
7468.10	295070	7	0	2829.56	43383.94	2842.29	7426.99	410.59	353331.82	0	209612.39
7468.16	220183	8	1067.94	5058	52101.08	5543.24	14464.41	845.13	395838.01	0	235077.89
7468.23	196639	8	10667.28	6100.7	47734.22	7349.62	19264.39	1188.08	460451.65	0	84074.93
7468.29	195590	8	971.84	5956.43	43901.61	6583.42	17212.07	1037.1	404845.4	0	258963.01
7468.36	198481	8	871.48	5744.06	50579.98	6384.36	16630.92	1003.94	400343.3	0	200470.17
7468.43	274900	8	0	2622.93	23071.68	2463.72	6429.42	360.03	397005.23	0	508193
7468.49	233718	8	756.04	4786.02	52482.26	5218.1	13591.16	789.65	380031.91	0	380544.04
7468.56	174191	9	1827.58	5635.06	51064.36	6957.92	18072.73	1108	451901.73	0	101298.88
7468.62	187642	8	1706.94	5277.28	40742.81	5731.22	14913.49	892.24	444424.82	0	251325.49
7468.69	207206	8	836.22	5810.02	33105.56	5790.96	15039.97	882.66	418406.05	0	363658.38
7468.75	235528	8	0	5161.33	28945.08	4986.49	12919.55	744.56	386676.94	0	462683.11

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7468.82	197063	8	908.08	5037.55	33626.78	5081.01	13202.9	778.99	383671.02	42987.28	317757.36
7468.88	246566	8	632.8	4421.58	38792.55	4492.04	11710.38	674.38	360871.79	0	440730.83
7468.95	210814	8	819.1	4929.52	50830.21	5423.03	14126.38	835.55	392993.61	0	256188.43
7469.02	198871	8	0	2062.07	17413.26	1836.54	4748.33	264.92	436192.32	0	486632.05
7469.08	147532	9	0	4787.67	27679.57	4923.13	12875.5	749.44	461426.3	0	404621.94
7469.15	147047	9	0	2450.57	19921.02	2223.12	5767.97	318.64	438285.56	0	475587.7
7469.21	153408	9	1355.63	6065.95	44947.51	6037.38	15817.96	951.11	447366.21	0	157236.6
7469.28	252618	8	484.98	3219.92	20556.91	2989.66	7740.2	435.96	393757.23	0	480114.84
7469.34	174208	9	1096.8	5371.9	36455.05	5401.06	14014.98	823.96	454113.57	0	332767.42
7469.41	291436	7	0	2337.36	13227.39	2092.22	5392.65	298.52	418729.47	0	498772.69
7469.48	259352	8	0	3634.87	20855.45	3379.71	8736.91	493.58	384853.1	0	474054.39
7469.54	197132	8	802.12	5322.77	47771.4	5884.5	15231.7	908.72	441419.65	0	185032.36
7469.61	222624	8	1203.31	5034.5	42887.8	5348.49	13844.55	815.67	388150.37	0	350400
7469.67	186111	8	1488.71	5939.12	55401.67	7280.04	18984.85	1185.54	438884.53	0	15546.14
7469.74	264230	8	662.44	4779.37	35316.7	4769.76	12377.86	719.13	345344.95	0	464640.01
7469.80	188216	8	1214.05	6396.07	44334.92	7048.81	18334.41	1125.09	433725.07	0	154618.72
7469.87	177026	8	1269.01	6838.57	47451.93	7919.82	20564.09	1301.97	443149.64	0	45207.27
7469.93	299568	7	0	2121.39	12017.77	1865.12	4808.86	263.3	429569.29	0	502357.11
7470.00	240322	8	813.9	4724.89	33624.24	4783.92	12330.5	719.81	385471.56	0	421396.2
7470.07	190162	8	1352.51	5141.86	40523.82	5342.81	13828.18	818.47	429418.84	0	261024.66
7470.13	196929	8	0	5561.08	46994.01	6167.15	15984.76	964.97	461976.04	0	138255.26
7470.20	174067	9	956.59	5940.59	50411.08	7108.76	18409.39	1154.65	479391.3	0	53334.68
7470.26	167869	9	1323.91	6093.71	44270	6838.17	17813.6	1099.62	463138.73	0	99734.82
7470.33	165966	9	1053.82	6410.91	45629.88	7586.5	19722.71	1246.9	497328.55	0	61197.14
7470.39	295107	7	969.67	3201.88	16145.75	2492.16	6460.14	361.24	385755.22	0	499137.63
7470.46	241616	8	899.82	4950.41	34038.06	4823.15	12511.15	725.24	373177.07	0	445250.76
7470.52	192446	8	1544.49	5534.1	42071.6	5918.58	15370.67	927.85	360599.23	59706.51	258148.98
7470.59	195699	8	1094.28	6121.9	47371.44	6919.59	18054.08	1112.08	468878.18	0	33165.53
7470.66	186931	8	783.95	4930.79	43392.88	5276.88	13715.95	810.39	432795.64	0	244081.99
7470.72	244909	8	0	3631.22	23267.87	3480.62	9046.42	509.92	368144.28	0	474633.49
7470.79	229841	8	1425.26	4869.39	34174.43	5012.55	12978.59	756.95	387334.43	0	419958.46
7470.85	202146	8	981.6	5798.34	46297.78	6105.37	15843.6	949.08	327837.15	65716.34	263647.53
7470.92	254383	8	1012.17	3894.32	30890.19	3583.05	9291.91	533.01	360146.35	0	464221.72

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7470.98	259731	8	633.12	3157.83	31385.19	3022.46	7820.11	443.36	353679.82	0	472694.73
7471.05	277685	7	0	3918.64	54787.26	4131.11	10796.7	620.32	307014.47	0	347935.13
7471.12	289536	7	0	1808.77	19442.09	1667.61	4311.5	237.12	399073.26	0	509313.68
7471.18	300517	7	0	2312.62	23038.05	2190.37	5630.65	317.16	388804.6	0	506599.78
7471.25	139098	9	7463.04	5679.18	41875.63	6789.86	17676.88	1101.49	495625.92	0	19568.29
7471.31	172890	9	2134.6	6236.77	45329.84	6762.36	17600.68	1094.58	474017.95	0	41236.31
7471.38	175222	9	2548.87	6505.79	49946.19	6923.67	17977.12	1104.63	447106.74	0	114819.94
7471.44	118868	9	4821.1	9064.28	42055.26	8241.5	21523.2	1397.67	575642.05	0	99660.44
7471.51	227195	8	6879.1	10269.12	40856.65	6568.56	17157.87	1016.64	361230.98	0	324084.18
7471.57	257417	8	2084.55	5819.61	44089.24	5295.99	13765.52	818.11	469450.32	0	41689.53
7471.64	293872	7	0	4366.37	36152.06	3978.45	10366.89	595.63	372977.56	0	207189.33
7471.71	181499	8	1378.84	5470.6	48591.48	6473.99	16787.16	1032.56	453056.28	0	100828.35
7471.77	249245	8	0	3425.77	24909.73	3269.5	8459.8	480.48	362892.77	0	465528.32
7471.84	188547	8	1280.64	6120.2	47315.15	7163.31	18621.67	1161.25	450454.61	0	0
7471.90	152215	9	2743.74	6646.95	46027.49	6855.57	17737.16	1083.32	445092.64	0	93476.3
7471.97	259260	8	1848.7	4403.63	22013.32	3374.28	8704.35	491.77	376897.04	0	478830.82
7472.03	264032	8	1759.27	4365.76	20912.68	3108.34	8046.46	453.54	377546.1	0	492891.28
7472.10	233011	8	4852.08	7805.34	42160.38	5914.77	15330.02	905.08	365325.16	0	426670.8
7472.17	173127	9	4651.99	8506.76	55976.68	8115.65	21109.88	1332.4	451541.22	0	101485.84
7472.23	154963	9	2634.73	4883.03	24141.91	3385.93	8728.87	494.93	364765.4	0	478249.32
7472.30	234438	8	2223.93	6281.23	32652.89	5303.18	13744.84	798.88	384590.48	0	450167.02
7472.36	166202	9	3282.28	7177.38	43168.03	7078.51	18375.52	1131.17	468469.76	0	164839.69
7472.43	217174	8	1124.63	4028.07	26550.69	3440.92	8896.72	504.88	381766.7	0	467014.81
7472.49	176672	8	3694.51	7831.66	42232.97	7061.84	18404.91	1127.02	452375.66	0	223186.66
7472.56	197316	8	3752.65	7483.56	43537.11	6750.4	17527.08	1063.94	410952.11	0	244606.97
7472.62	252714	8	1737.02	4565.18	21842.11	3676.27	9520.72	541.45	378448.72	0	480800.7
7472.69	234638	8	3155.26	6004.32	40082.45	4962.98	12920.53	748.76	360697.62	0	459395.27
7472.76	193160	8	1641.16	5397.85	35392.17	5064.07	13145.48	763.06	400164.63	0	413698.03
7472.82	193538	8	2912.57	6743.43	53646.45	7084.98	18363	1132.06	431714.18	0	98596.16
7472.89	285426	7	922.57	3391.8	18000.57	2520.46	6527.85	364.9	392240.37	0	504723.75
7472.95	179378	8	4477.54	8398.57	48298.19	7962.28	20737.41	1304.55	434284.12	0	90743.36
7473.02	227040	8	3298.51	6557.96	31652.86	5365.24	13874.95	807.9	376367.69	0	446531.25
7473.08	230385	8	2761.15	7174.75	32309.65	5716.3	14834.28	865.24	301176.84	48943.84	460118.3

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7473.15	189513	8	3985.75	7634.68	49032.1	7218.88	18802.05	1154.76	408207	0	246412.37
7473.22	124250	9	2896.24	7157.3	55339.68	7375.16	19203.7	1181.38	405303.51	0	71169.88
7473.28	260366	8	1007.3	3846.25	34031.78	3391.4	8789.94	495.42	295063.12	53091.05	486775.17
7473.35	199788	8	3463.26	7550.47	44824.5	6500.55	16942.88	1016.49	402899.3	0	342561.55
7473.41	186240	8	3685.19	7342.52	38975.59	6495.9	16899.85	1014.7	444899.58	0	286753.4
7473.48	183589	8	3524.69	7553.81	43720.9	6947.7	18046.06	1095.63	423129.16	0	243263.09
7473.54	184194	8	5103.68	8657.2	54925	7687.98	20008.61	1227.47	329428.88	67381.64	153145.41
7473.61	280533	7	1309.47	3235.75	23316.01	2435.29	6297.34	350.41	378809.39	0	508333.53
7473.67	190415	8	3843.51	7614.47	52620.37	7295.96	19143.57	1166.13	411342.37	0	189450.19
7473.74	187271	8	3060.08	7359.15	57226.9	7703.54	20089.63	1240.46	418262.16	0	152147.46
7473.81	264921	8	2330.86	4633.69	26521.11	3486.95	9048.05	509.12	364632.55	0	494127.14
7473.87	193083	8	4784.91	8324.76	42573.79	6930.67	17982.25	1086.17	395064.42	0	272881.18
7473.94	262711	8	1357.46	3829.42	20714.36	3122.58	8095.27	457.49	378391.13	0	493175.29
7474.00	173176	9	4049.37	8073.91	55875.64	8013.41	20907.33	1320.18	451020.2	0	0
7474.07	195158	8	5390.75	8459.55	50480.79	7081.53	18504.29	1120.88	387245.6	0	267064.38
7474.13	182733	8	6671.73	9618.48	53856.18	7863.57	20487.75	1266.56	402247.82	0	181411.11
7474.20	190792	8	4611.36	8042.61	36694.18	6206.09	16177.37	963.05	398017.32	0	337718.1
7474.27	197278	8	6827	8345.22	41131.16	7276.21	18979.69	1162.39	430175	0	225837.42
7474.33	168469	9	4435.79	7990.82	48526.61	8345	21689.28	1383.19	460167.47	0	13246.44
7474.40	251424	8	505.22	3114.39	23295.94	2946.73	7574.3	425.02	384232.5	0	483570.63
7474.46	212085	8	959.48	5338.09	42745.26	5540.6	14326.74	843.92	389045.54	0	358401.31
7474.53	310903	7	0	1689.16	10944.84	1513.17	3889.51	212.13	440816.98	0	507497.17
7474.59	201037	8	1542	5878.1	44293.95	6255.51	16214.91	963.54	402811.37	0	260253.87
7474.66	175618	8	1044.31	6618.56	43310.29	7655.57	19893.97	1248.07	444569.68	0	119256.82
7474.72	251172	8	556.36	3768.66	25793.81	3574.88	9237.78	523.87	374450.48	0	468798.41
7474.79	221628	8	713.9	5038.71	36988.46	5170.91	13440.92	773.04	386318.75	0	404154.02
7474.86	166150	9	1783.5	6385.9	46544.77	7605.49	19712.13	1228.72	388738.4	56377.59	27249.87
7474.92	236109	8	788.79	4693.05	32377.24	4769.22	12385.82	717.65	382304.35	0	447604.48
7474.99	191362	8	1461.26	5600.89	45744.6	6230.97	16146.11	969.9	418259.52	0	272425.09
7475.05	160513	9	952.55	6312.02	51495.27	7567.39	19704.98	1246.88	467718.45	0	10617.38
7475.12	166514	9	1298.54	5799.88	44400.09	6583.82	17105.03	1041.69	449310.99	0	173774.17
7475.18	233963	8	917.96	5447.41	44431.4	5517.49	14280.27	840.07	380038.77	0	320793.88
7475.25	57195	10	0	5209.83	28628.96	4887.5	12809.29	729.42	198080.18	0	122085.48

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7475.31	203799	8	3344.81	7351.5	52198.58	7756.03	20095.04	1262.32	452772.48	0	0
7475.38	170629	9	5713.13	9371.51	50969.86	8669.33	22589.16	1431.93	439165.61	0	49555.08
7475.45	114605	9	3165.21	7212.24	50375.98	7365.93	19098.03	1194.45	406383.67	0	0
7475.51	178268	8	2857.16	7110.19	52593.14	7933.24	20804.47	1313.64	443118.01	0	33967.28
7475.58	172019	9	2326.3	6278.08	54433.48	7218.12	18780.4	1165.86	443780.67	0	93985.82
7475.64	183171	8	2337.56	6489.09	48185.39	7001.71	18231.92	1103.4	429230.37	0	183093.06
7475.71	205587	8	1275.83	5774.1	50284.11	6781.45	17651.39	1071.82	447376.96	0	0
7475.77	261553	8	0	4537.54	32662.25	4498.04	11637.52	666.48	354300.75	0	456863.09
7475.84	225342	8	1454.19	5453.19	42284.44	5876.65	15267	901.19	401141.12	0	230189.62
7475.91	221474	8	1130.37	6909.8	45780.32	7640.68	19959.77	1230.29	443563.12	0	0
7475.97	272999	7	53338.49	31074.34	290171.59	9754.4	25869.17	1543.82	113745.54	156515.34	0
7476.04	141849	9	1952.82	6604.06	45932.43	7688.27	19959.25	1268.28	476140.76	0	0
7476.10	179327	8	1322.69	6403.92	45347.11	7311.46	19008.54	1175.4	434106.65	0	148009.88
7476.17	169316	9	1611.33	6368.77	56283.09	7674.18	20016.11	1260.04	464390.88	0	0
7476.23	190483	8	1529.99	5240.38	54482.12	6171.85	16051.06	965.38	441964.55	0	120179.45
7476.30	217603	8	13006.74	5333.65	53696.46	6248.6	16240.54	972.44	427338.85	0	238348.85
7476.36	186288	8	1330.72	5568.09	46820.1	6081.12	15850.93	957.7	418794.34	0	188428.14
7476.43	185511	8	1640.37	5428.84	50048.38	6280.63	16277.47	987.37	449404.72	0	131561.39
7476.50	162804	9	1518.8	6148.99	46153	7255.4	18976.45	1187.35	485588.18	0	17758.06
7476.56	205068	8	1176.34	5373.51	37913.57	5673.61	14695.32	871.16	418922.83	0	305180.48
7476.63	166052	9	1381.52	6038.06	52756.26	7403.73	19222.87	1221.93	448524.47	0	0
7476.69	167967	9	1435.9	6026.46	55609.31	7670.51	20013.79	1266.03	447815.63	0	0
7476.76	195936	8	909.85	6105.28	43261.89	6174.45	16049.78	956.48	432985.37	0	293514.79
7476.82	156481	9	1140.45	6208.21	42187.76	6863.27	17890.33	1101.12	480807.7	0	111710.89
7476.89	162228	9	1492.49	6089.56	43082.27	6808.46	17715.6	1084.38	394875.42	59039.38	144968.98
7476.96	206764	8	1533.3	5248.82	64620.82	6424.56	16654.63	1004.64	393199.01	0	188485.08
7477.02	195082	8	1094.75	5924.01	66970.74	7441.84	19464.98	1203.8	423190.52	0	51301.31
7477.09	196168	8	1280.94	4865.8	47697.13	5334.66	13912.08	815.71	379146.18	0	386811.78
7477.15	215056	8	1471.73	5484.33	56581.94	6247.9	16280.48	974.76	381344.17	0	281816.55
7477.22	225201	8	895.67	5681.83	47243.55	5918.59	15391.53	909.03	373493.32	0	368490.2
7477.28	267646	18	1369.81	6216.91	51361.14	7372.57	19253.97	1211.23	434396.2	0	18011.34
7477.35	387579	17	1622.87	5806.92	62357.36	7065.99	18414.65	1128.71	355716.45	51676.73	81945.84
7477.41	507582	15	578.19	3351.09	36388.64	3380.94	8776.23	498.58	355349.88	0	472992.2

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7477.48	407802	16	1460.32	4893.29	63262.09	5604.86	14619.13	866.55	402913.48	0	253337.99
7477.55	414729	16	1641.12	5068.34	55464.49	5733.29	14936.54	884.69	377129.21	0	289265.89
7477.61	328666	17	1933.07	6517.58	43423.12	7720.46	20182.64	1273.54	450732.67	0	23377.11
7477.68	343761	17	1489.95	6482.55	43261.2	7317.63	19123.29	1185.57	445727.82	0	126378.42
7477.74	321716	17	1946.7	6542.41	45366.1	7922.63	20700.79	1317.04	463667.46	0	16539.15
7477.81	315071	17	1920.31	6556.64	42343.09	7608	19877	1253.83	468548.25	0	27985.66
7477.87	328417	17	1374.66	6157.99	39373.55	6731.21	17492.27	1077.01	455396.81	0	149068.87
7477.94	361982	17	1744.93	5817.87	39958.59	6309.91	16392.15	990.22	444588.83	0	216003.65
7478.01	326084	17	1715.59	6411.76	48883.02	7562.86	19692.06	1227.86	400982.65	48118.32	0
7478.07	343654	17	2383.49	6222.76	58740.2	7543.24	19688.08	1237.55	444684.84	0	28667.42
7478.14	369581	17	1699.87	5765.26	52389.54	6541.15	17017.16	1036.83	436418.97	0	164635.21
7478.20	359931	17	1225.9	6138.19	45170.22	6712.39	17480.4	1065.6	454295.81	0	200849.3
7478.27	311324	17	1531.41	6523.27	46125.87	7765.47	20290.2	1289.19	474475.48	0	15987.65
7478.33	435948	16	1057.51	5150.1	40394.2	5267.68	13728.46	802.91	389953.2	0	402324.71
7478.40	318878	17	1487.44	6504.37	45320.96	7366.35	19200.31	1198.13	400920.96	53894.75	72012.25
7478.46	307283	17	1611.41	6614.72	41750.83	7538.03	19715.42	1253.25	489469.34	0	7952.31
7478.53	411832	16	1028.03	5466.4	32699.58	5482.82	14248.14	836.53	416105.83	0	342821.88
7478.60	444659	16	1110.62	4971.28	30262.34	4867.61	12644.24	737.32	401833.84	0	426851.87
7478.66	593893	14	210.73	2357.06	22331.54	2194.18	5667.16	315.38	395195.6	0	507603.52
7478.73	416514	16	1150.73	5343.03	57968.25	6191.36	16138.85	962.92	398379.62	0	285234.35
7478.79	329400	17	1673.45	6431.35	53476	7736.19	20278.32	1271.93	453829.47	0	0
7478.86	350933	17	1421.01	6134.16	54950.88	7561.55	19723.05	1233.04	471202.14	0	17263.67
7478.92	376795	17	253.74	2768.59	14716.8	2429.84	6293.72	353.16	437707.27	0	475020.45
7478.99	170630	19	1193.19	5808.49	36060.59	6033.03	15731.99	953.42	550031.61	0	272001.18
7479.06	291019	18	642.41	4118.55	31040.98	3781.76	9805.53	553.38	394248.35	0	423804.3
7479.12	479066	16	0	1112.94	5828.42	947.74	2442.22	130.41	474223.67	0	499675.23
7479.19	506923	15	0	1286.01	6742.09	1083.9	2787.21	150.41	464033.33	0	500461.56
7479.25	326543	17	3443.39	5949.21	44285.21	7077.45	18396.73	1154.57	479307.16	0	66579.26
7479.32	333204	17	1984.63	6233.35	44070.95	7019.92	18272.66	1143.44	462097.01	0	71838.28
7479.38	454988	16	664.4	4736.41	31903.77	4813.47	12526.12	726.85	396297.26	0	437574.79
7479.45	318367	17	1072.98	5996.14	45547.61	7038.4	18313.03	1148.21	473919.98	0	59812.01
7479.51	342110	17	1311.41	5608.98	43253.59	6129.16	15971.41	960.65	447720.77	0	238410.21
7479.58	311033	17	1475.41	5669.51	51028.91	7074.55	18445.02	1155.22	489532.13	0	18341.67

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7479.65	381084	17	932.71	5662.63	34789.05	5824.99	15198	906.16	423016.78	0	336063.3
7479.71	299892	17	1156.4	6371.67	43267.88	7448.86	19501.46	1231.42	486289.39	0	26410.31
7479.78	433611	16	1037.99	5296.92	30513.39	5126.92	13375.81	784.31	408889.41	0	417724.12
7479.84	482518	16	545.58	3704.87	20596.35	3405.22	8838.13	503.76	386640.79	0	469067.94
7479.91	298103	17	1659.26	6141.11	41432.75	7070.98	18507.88	1151.23	484482.91	0	78700.72
7479.97	317591	17	1254	5773.68	34926.89	6254.9	16336.22	986.78	474495.34	0	207032.99
7480.04	351449	17	974.34	5350.38	30156.49	5486.74	14259.23	845.66	460241.29	0	326164.51
7480.10	342546	17	1204.71	5607.05	32541.43	5938.65	15473.26	924.69	460278.62	0	280198.22
7480.17	290309	18	1919.12	6098.03	34875.97	6262.2	16350.94	987.67	496885.22	0	234411.75
7480.24	446032	16	2362.14	2727	14378.38	2476.75	6421.59	359.03	426679.68	0	479839.52
7480.30	374354	17	1502.26	5710.36	35395.08	5769.62	15001.31	894.02	432137.11	0	281143.74
7480.37	261238	18	1548.73	5884.83	41960.41	6936.19	18130.46	1140.98	528751.64	0	56677.37
7480.43	496983	15	291	2847.24	13409.4	2510.12	6514.87	364.36	417984.05	0	493090.11
7480.50	343589	17	1512.52	6111.6	48665.07	7209.65	18795.4	1167.46	434114.65	0	74850.59
7480.56	413609	16	968.23	4826.29	36524.27	4937.2	12864.32	748.33	400328.85	0	433692.82
7480.63	301714	17	1427.23	5681.46	48600.98	6387.89	16727.28	1012.83	483345.77	0	179885.86
7480.70	259652	18	1013.17	5916.66	47274.01	7070.93	18541.8	1177.73	544152.08	0	33579.32
7480.76	329053	17	1626.46	5912.2	45596.57	6971.83	18245.31	1135.53	476131.38	0	56615.4
7480.83	314678	17	1387.71	6286.03	45670.49	7316.52	19144.76	1198.48	483043.41	0	47544.9
7480.89	493359	15	692.96	5158.84	34498.29	5188.15	13531.24	785.41	363122.7	0	330345.78
7480.96	578549	14	0	4078.05	27962.01	3888.21	10173.84	570.62	346414.67	0	296737.12
7481.02	521460	15	0	4640.56	37551.65	4893.6	12817.57	744.53	475931.61	0	57993.09
7481.09	503426	15	0	3969.97	27103.34	3679.71	9605.38	538.3	366963.44	0	300644.37
7481.15	481464	16	0	3809.42	28635.48	3610.82	9440	535.81	422338.34	0	185650.3
7481.22	389612	17	0	2799.68	18589.12	2562.91	6650.56	363.44	280259.57	0	356027.41
7481.29	568582	15	1168.51	5041.78	36549.67	5117.31	13427.75	785.52	456549.79	0	14296.26
7481.35	623398	14	0	2806.31	19071.91	2512.42	6536.48	362.33	304727.61	0	463315.93
7481.42	523356	15	501.84	3270.45	19040.66	2939.91	7666.9	429.06	381835.34	0	482054.01
7481.48	448908	16	1176.23	5458.06	27193.78	5192.57	13621.32	786.9	396688.72	0	399170.65
7481.55	451291	16	976.62	4892.59	31858.39	4835.82	12643.31	729.26	396196.01	0	403485.04
7481.61	476819	16	1609.53	7168.37	39641.87	6910.58	18174.25	1088.13	432157.33	0	137425.82
7481.68	467367	16	767.81	6992.28	37086.14	7633.19	20095.71	1237.46	498657.47	0	0
7481.75	564298	15	0	6203.71	37709.56	6390.9	16827.29	996.75	467417.61	0	4578.57

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7481.81	505681	15	0	5740.57	29014.75	5846.2	15348.7	891.32	413679.64	0	219648.77
7481.88	497049	15	0	4181.18	24233.35	4007.19	10496.9	591.08	352992.34	0	417266.75
7481.94	229416	18	1568.63	6034.53	41402.94	5997.21	15735.91	939.72	446882.12	0	62289.4
7482.01	423804	16	911.85	6628.12	41757	7325.83	19268.8	1180.69	461441.26	0	0
7482.07	480056	16	818	6747.5	48718.3	7209.61	18956.55	1154.59	425784.91	0	61615.57
7482.14	577072	14	0	3490.37	24344.19	3310.23	8654.13	485.24	330983.35	0	465952.93
7482.20	516406	15	645.99	4991.78	38080.83	4876.67	12747.45	731.27	347754.49	0	340518.56
7482.27	437063	16	1264.35	5350.83	40505.78	5676.26	14897.33	881.73	400484.88	0	268778.03
7482.34	615663	14	257.63	2613.93	16230.29	2226.44	5804.19	322.66	380967.22	0	502003.72
7482.40	611492	14	1101.84	3823.66	20291.47	2919.13	7621.17	425.39	335532.11	0	484916.27
7482.47	548999	15	0	1451.69	8457.3	1222.54	3176.08	172.67	446031.69	0	500415.27
7482.53	399464	17	802.31	4602.26	30498.05	4490.54	11734.73	684.38	426106.63	0	423618.61
7482.60	359592	17	48552.01	34439.77	88500.91	10924.68	28831.67	1810.33	371550.72	0	293338.89
7482.66	247992	18	1444.85	5105.95	31328.26	4921.41	12849.85	748.93	447465.57	0	297235.11
7482.73	471978	16	1206.62	5267.43	30950.04	5261.96	13743.11	804.49	393779.47	0	401737.24
7482.80	580204	14	296.34	2462.9	14737.45	2204.97	5718.09	317.98	410183.19	0	492761.91
7482.86	584576	14	0	3033.37	19636.06	2853.38	7426.99	416.81	363754.88	0	478697.12
7482.93	380759	17	408.47	2651.18	18371.07	2356.17	6118.24	338.73	440474.46	0	480799.31
7482.99	297675	18	822.21	5143.56	27963.59	5076.11	13235.01	780.86	496287.16	0	354109.57
7483.06	406598	16	0	2112.13	11871.29	1863.43	4822.52	265.21	452040.5	0	484857.65
7483.12	424829	16	287.75	2348.64	13271.37	2083.27	5388.86	298.08	437544.89	0	483920.64
7483.19	361005	17	929.47	4648.59	33420.8	4743.13	12368.72	717.69	404325.96	35019.5	370793.14
7483.25	135056	19	0	2733.85	9193.39	2612.93	6794.8	410.17	856982.2	0	72800.41
7483.32	368287	17	3153.63	5163.18	41197.2	5714.43	14883.13	891.86	458686.25	0	226791.86
7483.39	465214	16	724.81	4890.58	30703.33	4809.63	12511.9	725.06	391933.47	0	430563.29
7483.45	342591	17	1454.32	5559.34	40336.8	5849.87	15275.29	921.5	454897.98	0	226091.82
7483.52	423066	16	1574.83	4843.86	31264.9	4623.15	12039.29	690.93	411737.81	0	436135.72
7483.58	490563	16	308.34	2425.86	13763.11	2140.71	5554.59	307.1	427582.82	0	487874.77
7483.65	581831	14	0	2258.08	12690.48	2008.73	5219	287.88	418539.56	0	501354.12
7483.71	356576	17	1322.57	6083.3	44931.3	6898.15	18047.32	1114.77	396355.92	50795.4	78455.29
7483.78	346654	17	1476.94	5967.31	42603.48	6815.18	17770.6	1096.31	464204.72	0	72205.08
7483.85	319942	17	1411.96	5919.94	44340.18	7070	18503.51	1165.64	481216.41	0	0
7483.91	349587	17	1047.56	5192.19	38523.03	5552.68	14479.65	861.75	449254.03	0	318871.08

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7483.98	503290	15	663.08	3580.59	21333.6	3312.56	8607.08	485.37	377666.03	0	477300.73
7484.04	464733	16	1034.29	4875.59	32118.34	4818.38	12563.44	727.48	398156.96	0	428877.19
7484.11	576015	15	316.18	2249.36	12905.14	1970.76	5098.89	282.06	421133.13	0	502123.04
7484.17	443222	16	1198.17	5331.6	37188.72	5393.93	14039.11	827.25	390690.37	0	390126.66
7484.24	437904	16	762.98	4991.39	32984.25	4920.91	12795.09	747.1	400788.51	0	404419.27
7484.30	357665	17	10140.87	5874.71	37146.8	7004.06	18268.41	1135.49	493613.4	0	152702.54
7484.37	545269	15	224.83	2931.85	13853.68	2660.93	6880.25	385.27	403005.35	0	492498.05
7484.44	539014	15	222.08	2871.54	13963.56	2606.41	6729.94	376.52	408144.98	0	490587.64
7484.50	359395	17	1123.28	6074.28	36655.14	6477.6	16835.91	1022.51	426540.7	0	164385.68
7484.57	396423	17	930.14	5708.53	29701.49	5679.32	14803.51	874.66	416535.5	0	317618.28
7484.63	637431	14	0	1455.28	6451.64	1220.07	3145.41	169.24	458713.4	0	503285.96
7484.70	450927	16	1220.59	4638.82	31637.73	4523.12	11762.99	674.24	391368.66	0	437686.08
7484.76	383836	17	968.45	5750.45	33054.15	5774.91	15061.43	898.78	431398.71	0	313137.94
7484.83	641679	14	0	1493.07	7002.29	1266.13	3267.05	177.49	451290.04	0	507951.86
7484.90	449190	16	1172.15	4637.44	32638.53	4585.67	11928.62	693.8	393645.44	0	421815.35
7484.96	374078	17	791.97	5406.11	35112.23	5444.38	14194.76	838.11	421297.51	0	296295.65
7485.03	389090	17	1162.5	5577.25	34300.99	5749.12	14976.04	895.23	418685.47	0	275960.65
7485.09	582643	14	0	2485.86	11172.71	2221.49	5762.57	318.68	405819.94	0	504921.56
7485.16	593849	14	0	2147.1	10403.04	1900.21	4910.41	269.82	422761.95	0	504695.7
7485.22	408582	16	532.85	3423.01	17605.72	3103.72	8059.04	451.25	379296.66	0	482066.71
7485.29	218676	18	1691.2	6135.24	39032.97	6893.09	18016.57	1118.39	397113.62	0	0
7485.35	479333	16	642.98	3624.75	20023.37	3407.01	8842.6	504.39	379387.84	0	464812.18
7485.42	490072	16	409.18	2927.25	14703.23	2571.24	6673.78	373.1	415035.43	0	484392.87
7485.49	451040	16	344.04	2801.95	16421.33	2579.5	6660.97	372.94	416589.78	0	475895.53
7485.55	430982	16	908.55	4653.67	30885.97	4442.25	11531.94	661.82	417901.2	0	441869.73
7485.62	439163	16	1156.66	4946.94	29371.85	4723.22	12290.67	709.43	417970.24	0	446261.08
7485.68	253660	18	1603.75	5433.36	39222.35	5825.53	15143.98	903.45	448453.04	0	240170.9
7485.75	315172	17	1295.38	6123.05	35530.61	6675.91	17411.13	1074.4	477340.43	0	133305.23
7485.81	309864	17	1193.18	5329	31846.7	5328.11	13866.81	818.78	460453.16	0	299598.09
7485.88	156723	19	5050.49	6771.35	38211.17	5836.7	15162.83	918.41	511697.46	0	234097.51
7485.94	273306	18	970.33	5085.98	30006.17	5104.2	13316.05	782.72	505877.2	0	323826.93
7486.01	305161	17	1179.24	5053.12	33770.58	5215.72	13590.44	806.93	486948.69	0	278667.32
7486.08	235415	18	1273.45	5427.18	38665.42	6123.46	15962.53	988.71	541675.36	0	107395.63

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7486.14	250709	18	1485.15	5651.36	42508.29	6544.6	17145.86	1069.55	546475.98	0	90422.66
7486.21	262482	18	1070.13	5201.09	37850.14	5775.63	15051.35	908.19	527214.32	0	228626.81
7486.27	282354	18	1190.08	5376.22	31947.89	5490.15	14320.75	854.58	508309.93	0	318076.46
7486.34	247885	18	1085.85	5172.03	32637.45	5440.45	14196.17	850.68	509811.15	0	243772.57
7486.40	351206	17	904.12	4750.27	28610.32	4620.81	12031.25	697.71	434349.17	0	435289.71
7486.47	304232	17	411.81	2492.99	15844.23	2324.1	6037.91	333.29	405073.35	0	472781.63
7486.54	358918	17	1085.14	5335.42	33168.31	5528.49	14413.45	856.33	452476.83	0	290975.7
7486.60	340067	17	1099.09	5465.84	34006.58	5761.27	15028.16	898.33	450861.79	0	233191.97
7486.67	306578	17	1417.24	6185.45	35786.41	6698.95	17510.81	1075.79	492120.42	0	145670.78
7486.73	286391	18	1077.08	5237.82	31780.39	5422.15	14150.88	836.92	469340.34	0	328875.41
7486.80	382084	17	1346.02	5797.17	35169.29	6207.28	16151.87	965.55	386103.77	31286.24	255995.57
7486.86	499716	15	463.21	4996.32	25305.54	4789.64	12454.66	715.54	378293.15	0	465840.7
7486.93	338441	17	1193.89	6488.11	38930.06	7077.01	18452.16	1137.44	397312.57	41474.66	88776.89
7486.99	430970	16	553.23	5707.47	30288.67	5766.08	15013.88	889.64	406777.21	0	365599.56
7487.06	497310	15	503.97	3285.86	19988.55	3105.83	8063.08	453.17	387859.06	0	473156.92
7487.13	349334	17	1094.36	6185.06	38146.26	6904.63	18000.82	1108.73	437601.07	0	114007.77
7487.19	382872	17	1081.45	6016.39	35444.03	6302.65	16422.11	989.46	418216.31	0	266693.15
7487.26	131478	19	1034.36	0	3732.28	309.66	0	49.55	457465.3	0	508225.1
7487.32	114705	19	0	2950.89	16166.42	2617.03	6760.2	366.28	308076.82	0	407918.02
7487.39	325665	17	2248.77	6240.69	39861.42	7133.22	18649.26	1160.74	470787.42	0	42217.87
7487.45	350651	17	1205.65	5709.47	33119.88	6234	16288.87	984.31	447718.73	0	233005.47
7487.52	368508	17	1001.25	5181.06	34566.64	5236.24	13687.99	802.47	431839.77	0	329094.64
7487.59	328290	17	1295.36	5509.2	46416.6	6426.75	16835.66	1037.27	468604.77	0	82007.67
7487.65	349189	17	1554.53	5955.52	47695.83	6990.22	18284.94	1126.26	436180.2	0	108399.13
7487.72	378959	17	1666.78	5920.8	40110.42	6239.78	16302.54	977.02	368375.94	36392.93	251069.29
7487.78	413485	16	1512.73	5284.99	37987.72	5553.7	14521.62	857.06	402154.61	0	324684.28
7487.85	603048	14	210.36	2213.04	11709.17	1939.75	5031.95	277.31	427040.32	0	503417.9
7487.91	530833	15	500.11	3518.95	20366.27	3252.6	8454.09	475.3	381622.94	0	485241.89
7487.98	405975	16	1109.68	5558.51	34403.5	5883.56	15347.08	911.3	425590.55	0	317776.03
7488.04	475231	16	702.81	4908.72	29963.98	4783.34	12477.75	716.94	380743.03	0	426666.94
7488.11	401935	16	1492.72	5449.68	33563.98	5630.23	14681.25	870.09	411626.87	0	320843
7488.18	435699	16	1063.55	5407.51	28337.97	5383.45	14077.87	822.44	420330.86	0	397128.15
7488.24	351501	17	1165.69	5888.12	40390.3	6543.49	17085.88	1037.3	455743.74	0	156416.38

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7488.31	323964	17	1215.52	6216.57	37552.69	6961.49	18199	1123.33	475883.5	0	119212.13
7488.37	329337	17	9997.18	5802.44	36891.13	6998.7	18326.17	1148.34	521741.48	0	69698.74
7488.44	388282	17	1665.66	5584.52	56053.88	6644.65	17386.76	1059.43	353518.74	60062.1	57083.29
7488.50	323990	17	1455.6	6699.48	41225.08	7907.45	20672.6	1307.29	393528.71	47025.24	0
7488.57	356970	17	1592.61	6021.98	44817.37	6926.03	18040.64	1106.58	432955.51	0	134341.84
7488.64	371681	17	1321.26	5848.15	37197.19	6465.15	16881.83	1016.3	438532.13	0	233029.26
7488.70	385995	17	1268.09	5834.86	39266.82	6299.17	16412.61	989.36	433255.73	0	239733.69
7488.77	415457	16	1199.46	5515.57	36979.4	5796.72	15132.97	897.4	409082.35	0	326472.97
7488.83	426065	16	951	5174.87	31838.03	5155.43	13436.95	782.44	410209.61	0	377390.46
7488.90	339711	17	1470.69	6016.85	35802.36	6529.31	17076.74	1038.33	454341.46	0	149628.64
7488.96	556944	15	346.32	3069.72	14498.14	2816.8	7317.49	408.53	397292.04	0	492030.67
7489.03	348149	17	1219.04	6334.97	38457.56	6984.16	18246.22	1114.71	365841.53	50344.88	109519.32
7489.09	425609	16	1219.88	5589.38	32994.71	5661.1	14784.72	872.62	410487.55	0	336429.43
7489.16	436013	16	826.3	5233.52	29384.68	5105.88	13306.19	770.4	397871.06	0	394395.77
7489.23	337776	17	1095.03	6035.93	45108.26	6967.99	18232.88	1124.54	446920.79	0	73970.58
7489.29	389172	17	1083.37	5971.14	37793.45	6312.13	16469.29	987.48	425992.16	0	273289.46
7489.36	300026	17	766.6	4815.65	26313.42	4666.78	12170.68	702.97	416839.47	0	391972.57
7489.42	512200	15	647.22	3242.53	23838.03	3038.84	7879.72	441.74	380402.6	0	482233.35
7489.49	347259	17	1186.93	5939.73	39621.04	6571.17	17108.07	1039.52	453383.08	0	185656.22
7489.55	324538	17	1560.08	5771.31	42954.16	6600.47	17232.04	1058.72	482858.8	0	105178.83
7489.62	391032	17	1219.12	5064.18	31123.57	5151.87	13450.16	784.2	436033.75	0	377655.97
7489.69	298330	17	1574.02	6011.51	37928.92	6982.34	18287.96	1142.64	500057.17	0	68752.02
7489.75	438999	16	1451.69	5609.27	30711.28	5652.58	14774.74	868.89	402160.84	0	362876.85
7489.82	340431	17	1513.6	6544.82	39965.49	7314.45	19126.35	1180.68	396726.91	38693.04	101561.53
7489.88	515576	15	0	3276.42	17881.37	3116.91	8094.53	453.66	378616.3	0	488056.45
7489.95	388707	17	1017.99	5738.41	36623.3	6041.67	15757.69	939.22	427948.59	0	289968.43
7490.01	427378	16	973.68	4887.18	31082.66	5017.27	13078.42	758.26	410911.34	0	392794.63
7490.08	488306	16	629.54	3749.05	21155.56	3443.9	8937.81	505.3	385587.12	0	472862.29
7490.14	402650	16	1019.06	5492.75	32467.13	5532.88	14413.42	851.77	423083.18	0	340415.44
7490.21	353030	17	1094.67	6397.75	41385.15	7261.92	18987.26	1166.18	429419.69	0	130571.9
7490.28	374535	17	1431.37	5529.77	41261.85	6012.74	15706.52	934.59	407771.84	0	310683.29
7490.34	359582	17	1375.24	5642.17	42328.71	6207.85	16218.59	977.6	440362.84	0	208072.93
7490.41	370559	17	3561.36	5830.64	43102.16	6551.95	17092.02	1033.1	434404.64	0	196973.65

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7490.47	363920	17	1381.29	6043.11	39246.82	6558.21	17123.57	1036.31	422847.19	0	223174.72
7490.54	452348	16	1195.51	5137.44	28806.61	5137.07	13420.66	782.1	400903.93	0	413304.84
7490.60	358677	17	1219.45	5589.31	45145.96	6420.41	16755.5	1016.86	442483.61	0	117266.22
7490.67	477986	16	981.37	4730.66	36375.7	4808.1	12549.25	725.22	377154.44	0	429368.46
7490.73	361669	17	1314.38	5893.44	49199.45	6674.29	17449.35	1055.45	397552.38	44761.38	115227.66
7490.80	342714	17	1427.9	6038.4	43596.96	6856.57	17967.5	1100.6	473085.26	0	105149.17
7490.87	519208	15	0	3625.79	19101.55	3395.32	8844.75	499.47	391824.5	0	472239.9
7490.93	386605	17	1312.27	5958.62	37482.03	6323.84	16518.45	989.95	414172.37	0	258713.5
7491.00	373050	17	1224.33	6009.2	47663.77	6726.41	17575.9	1067.64	426652.16	0	208065.79
7491.06	428089	16	1245.71	4616.64	38421.9	4749.9	12361.48	713.46	391083.62	0	434305.71
7491.13	454881	16	957.31	5392.89	33241.74	5371.89	13982.52	816.7	390833.13	0	412649.55
7491.19	636220	14	0	1499.61	6815.44	1277.25	3300.87	179.3	450690.56	0	505966.91
7491.26	335936	17	1151.91	6386.22	40156.8	7206.52	18861.19	1172.02	453013.89	0	81886.92
7491.33	554117	15	0	1708.66	7600.91	1509.76	3903.76	212.92	452537.67	0	501853.4
7491.39	123129	19	0	3782.94	19471.53	3498.36	8996.18	509.93	362083.39	0	84174.7
7491.46	348801	17	1448.69	6350.32	42346.11	7389.22	19269.62	1199.2	452194.81	0	80519.51
7491.52	345934	17	1287.11	6532.71	40669.29	7465.62	19491.33	1207.17	462644.89	0	126604.53
7491.59	319984	17	1432.74	6806.82	45251.93	8387.28	21950.23	1414.83	480220.09	0	0
7491.65	339560	17	1536.81	6299.31	49500.43	7526.61	19707.84	1236.06	455955.08	0	81898.16
7491.72	324756	17	1768.51	6492.66	49749.46	7956.24	20793.37	1309.11	393640.5	57596.03	16074
7491.78	393860	17	1060.55	5848.27	43438.33	6471.63	16918.94	1016.14	427332	0	223203.69
7491.85	394296	17	1208.44	4986.56	45074.12	5409.28	14115.94	832.29	419159.82	0	312045.99
7491.92	384253	17	1604.84	5411.51	62923.13	6809.58	17857.68	1103.39	436306.91	0	0
7491.98	357318	17	1476.81	5498.66	61633.11	7077.44	18554.34	1154.28	450986.86	0	0
7492.05	347838	17	1145.29	5297.26	60520.83	6768.13	17685.1	1099.86	458321.01	0	0
7492.11	374265	17	871.38	5729.05	40609.34	6218.6	16276.14	975.91	432660.51	0	250475.16
7492.18	547265	15	0	2290.92	15049.29	2098.62	5435.68	300.18	416527.04	0	498505.31
7492.24	340798	17	1249.96	5747.29	55795.89	7070.58	18500.54	1148.95	472127.65	0	21441.22
7492.31	454157	16	2188.32	6416.55	31390.63	5790.91	15103.36	886.8	375734.73	0	403993.82
7492.38	343090	17	8454.54	12108.12	47617.6	10292.75	27041.79	1749.64	341258.41	47631.18	0
7492.44	409464	16	6440.61	10591.92	35792.58	7703.59	20133.11	1220.56	373325.96	0	324586.25
7492.51	362429	17	4188.73	8639.26	38798.61	7575.15	19779.07	1218.33	423573.66	0	212703.63
7492.57	321355	17	3099.55	7367.9	39196.15	7722	20195.21	1274.01	466776.4	0	67487.63

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7492.64	283655	18	2549.37	6468.02	39401.27	6622.02	17292.51	1052.3	442579.88	0	199496.32
7492.70	390581	17	2287.02	7049.18	40641.76	7050.64	18435.58	1119.39	396140.14	0	265019.4
7492.77	341350	17	2613.57	7502.7	46184.61	7778.59	20329.22	1264.7	439429.41	0	95765.91
7492.83	408057	16	2195.58	6080.16	34875.49	5825.55	15216.62	899.63	402832.17	0	348436.16
7492.90	401508	16	2240.03	6433.24	34639.12	5942.08	15487.15	918.39	414236.98	0	334708.08
7492.97	409134	16	2196.31	6489.87	33238.78	6118.13	15993.06	946.93	367894.19	29874.14	339240.23
7493.03	364567	17	2568.47	7439.16	39813.23	7371.89	19286.21	1187.17	421365.85	0	189740
7493.10	327284	17	2622.66	7711.29	44537.1	8029.39	20975.55	1323.23	462402.63	0	73740.67
7493.16	358162	17	1928.19	6766.56	33188.34	6462.02	16871.13	1020.11	432637.45	0	270344.04
7493.23	373714	17	1639.15	6519.16	34865.84	6323.68	16496.96	985.78	432365.08	0	280515.56
7493.29	379753	17	1400.88	6619.17	35653.43	6699.21	17504.52	1054.18	414928.89	0	243317.06
7493.36	293319	18	2301.39	7184.84	45561.13	8354.56	21883.37	1407.19	474992.87	0	0
7493.43	328626	17	2799.03	6976.7	44732.17	7878.96	20600.75	1302.88	455964.88	0	13684.4
7493.49	516793	15	575.5	3529.67	19214.64	3203.27	8329.11	466.39	383580.29	0	486508.02
7493.56	369950	17	2227.13	6167.48	39362.43	6308.65	16447.5	990.64	433192.31	0	249172.46
7493.62	470030	16	1518.57	5338.73	32566.17	4969.02	12949.91	744.96	371636.11	0	466823.67
7493.69	391902	17	1832.18	6104.04	33972.81	5891.15	15347.57	908.89	409681.59	0	317979.36
7493.75	628296	14	0	1434.13	5628.26	1182.74	3060.7	164.92	459652.91	0	507061.08
7493.82	304990	17	2052.75	6994.9	41083.52	7983.52	20826.35	1332.46	484770.86	0	0
7493.88	322825	17	2267.71	7074.98	40870.19	7493.43	19609.11	1220.27	466364.49	0	111379.27
7493.95	318635	17	1764.56	6165.44	47794.28	6615.47	17308.45	1050.92	424681.04	0	174832.22
7494.02	365216	17	2085.42	6649.49	52814.4	7421.1	19419.56	1195.09	364986.05	54961.7	66757.97
7494.08	461730	16	1861.18	5435.61	37152.83	5066.6	13216.55	765.29	376017.52	0	417740.62
7494.15	556272	15	334.05	2738.62	13948.52	2287.3	5922.96	327.44	412894.09	0	505755.62
7494.21	348260	17	1653.41	6053.1	41072.97	6323.98	16522.49	999.86	449900.85	0	222163.67
7494.28	437236	16	1170.09	4953.82	35684.27	4965.02	12932.57	753.13	396906.01	0	403735.65
7494.34	372797	17	1095.87	5869.09	45198.52	6496.02	16968.1	1017.88	428458.26	0	258376.7
7494.41	484103	16	525.88	3150.22	21524.32	2965.85	7697.02	430.8	390582.4	0	482561.17
7494.48	378818	17	3287.34	5968.32	37833.76	6472.46	16934.19	1029.94	448435.79	0	192260.91
7494.54	537885	15	297.67	2951.19	15353.63	2688.19	6981.17	389.42	399908.65	0	491936.58
7494.61	570226	15	0	2008.37	9797.16	1731.93	4478.51	245.22	432245.11	0	504326.06
7494.67	371013	17	1265.66	5971.1	33640.32	6014.78	15689.81	934.64	435665.31	0	304226.15
7494.74	446246	16	598.74	5112.36	35118.36	5289.68	13777.76	804.92	387508.55	0	348329.37

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7494.80	494945	15	0	3012.14	18550.88	2730.19	7091.88	398.1	392986.35	0	488203.92
7494.87	525859	15	0	2965.08	15291.7	2681.37	6958.23	387.47	410392.49	0	489398.98
7494.93	386860	17	911.78	5661.3	37706.4	6010.66	15686.28	940.09	451676.38	0	126698.93
7495.00	488006	16	305.94	3699.02	17522.78	3518.1	9125.45	515.72	375741.55	0	474877.14
7495.07	359862	17	779.78	5469.63	30112.16	5562.29	14488.86	857.9	456140.65	0	343219.5
7495.13	339477	17	777.75	5187.86	31029.07	5199.25	13551.84	798.22	456029.79	0	371215.43
7495.20	337820	17	866.11	5042.61	33573.29	5253.75	13617.78	797.55	459900.28	0	349825.11
7495.26	266316	18	1356.26	5826.03	40336.2	6956.65	18139.85	1142.86	538685.84	0	58458.16
7495.33	376398	17	0	2420.1	12943.38	2178.48	5627.21	310.46	439954.28	0	485466.96
7495.39	201604	18	2008.14	6349.01	42443.06	6827.01	17756.12	1089.67	458555.77	0	217841.29
7495.46	334957	17	2696.36	6733.86	44380.63	7536.18	19580.38	1237.43	459030.04	0	0
7495.52	377333	17	1438.45	5719.22	39050	5918	15449.72	918.54	430864.96	0	272747.14
7495.59	362418	17	1247.44	6263.63	36350.57	6792.56	17720.19	1078.54	434988.44	0	195754.39
7495.66	503191	15	349.9	3547.27	21151.8	3372.17	8764.16	497.61	380244.85	0	471675.23
7495.72	402568	16	1119.22	5168.51	35813.3	5333.49	13867.69	812.73	414638.35	0	283771.1
7495.79	301073	17	1057.26	5307.76	35153.46	5615.49	14632.32	868.84	449294.38	0	282717.76
7495.85	371351	17	844.42	5502.97	34503.09	5643.09	14690.82	869.51	444765.89	0	321012.02
7495.92	351529	17	901.36	4576.61	34663.58	4709.8	12233.92	711.93	448244.69	0	371161.15
7495.98	307813	17	823.03	5039.85	31961.79	5261.62	13651.78	804.42	492395.92	0	311230.51
7496.05	318582	17	619.61	5125.46	32770.37	5314.08	13861.42	822.52	483659.73	0	290941.8
7496.12	322890	17	502.22	4836.31	31317.3	4860.9	12641.66	736.09	468566.2	0	355738.65
7496.18	374280	17	1015.44	5108.13	32859.04	5165.47	13412.68	783.05	429386.48	0	361661.66
7496.25	335368	17	1117.56	5048.04	33361.43	5248.48	13622.67	808.15	467383.56	0	309535.99
7496.31	289049	18	0	4075.86	24925.43	3898.33	10117.23	576.02	465739.2	0	447419.22
7496.38	238933	18	700.48	4898.26	26857.23	4793.5	12476.56	729.47	503150.18	0	390488.81
7496.44	364362	17	3295.03	4174.73	30755.53	4309.34	11201.88	652.05	457560.8	0	404290.31
7496.51	484035	16	607.35	4312.71	31661.77	4243.26	11005.12	633.03	382124.53	0	466873.11
7496.57	300452	17	1335.43	5157.04	43864.96	5578.27	14477.39	876.28	503847.79	0	99815.73
7496.64	570112	15	246.06	1921.67	21673.96	1759.45	4525.83	248.94	388369.03	0	486035.19
7496.71	538732	15	0	1995.76	10546.48	1758.19	4525.87	249.4	423717	0	492359.81
7496.77	414260	16	945.63	4199.84	35843.71	4184.09	10864.51	619.23	358577.53	0	435701.49
7496.84	366151	17	833.33	5365.47	29423.99	5466.11	14162.96	843.08	453165.51	0	259772.31
7496.90	371678	17	561.11	5589.95	30247.66	5653.19	14679.27	880.21	452000.48	0	279290.47

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7496.97	277682	18	1196.93	5564.27	34569.07	6084.47	15753.47	965.51	516551.1	0	160735.29
7497.03	331903	17	674.38	5177.16	37975.62	5456.47	14152.26	842.29	471916.55	0	260020.98
7497.10	379155	17	876.51	5348.63	37669.94	5648.99	14613.26	863.99	397198.48	0	274532.81
7497.17	341778	17	1622.45	6049.82	33918.5	6149.16	15969.3	968.69	456513.89	0	188568.05
7497.23	432164	16	0	2572.36	12207.17	2225.81	5746.17	320.15	428409.17	0	482716.68
7497.30	294263	18	0	4744.35	26448.33	4364.64	11343.68	651.4	365939.07	0	448016.12
7497.36	502317	15	772.81	3579.64	25263.34	3325.36	8617.09	490.01	371721.83	0	469243.38
7497.43	290450	18	3722.02	6770.84	48101.59	7781.04	20269.77	1299.25	466142.58	0	0
7497.49	363740	17	2524.38	6503.11	49711.6	6873.14	17836.38	1091.93	423417.88	0	154722.48
7497.56	380096	17	1601.31	6289	38756.57	6188.09	16126.57	970.44	442922.41	0	260903.09
7497.62	319265	17	2428.18	7010.46	42336.06	7093.51	18490.71	1145.55	487319.24	0	120842.13
7497.69	337624	17	2905.87	7108.75	46591.19	7499.03	19529.05	1219.96	462815.3	0	112342.47
7497.76	425361	16	2326.34	5704.17	41513.37	5221.45	13545.43	797.52	384417.16	0	400574.43
7497.82	313708	17	2372.6	6903.72	46195.23	7395.93	19288.46	1212.73	482046.32	0	47139
7497.89	341077	17	843.43	5101.26	33330.03	5079.22	13237	774.12	437755.76	0	346338.46
7497.95	356978	17	2339.82	7047.84	47245.01	7793.21	20233.72	1271.18	434366.82	0	24705.75
7498.02	364276	17	2597.98	7828.44	45698.81	7942.14	20687.19	1300.29	424657.95	0	37429.87
7498.08	335433	17	1269.61	5363.31	27700.77	4823.27	12556.47	730.06	411159.75	0	399550.79
7498.15	367878	17	1956.28	7101.87	42418.53	7242.02	18883.02	1162.28	441324.67	0	112550.71
7498.22	336141	17	2179.35	7072.43	48122.47	7611.13	19826.4	1244.84	460701.31	0	103627.67
7498.28	307433	17	2658.06	6895.7	43249.04	6846.54	17889.9	1104.47	499948.34	0	163797.22
7498.35	284042	18	3408.91	7633.27	41468.56	7264	18940.98	1179.41	513766.03	0	156083.52
7498.41	301965	17	3155.23	7656.06	44381.68	7513.68	19607.88	1235.03	501954.51	0	137030.47
7498.48	475615	16	8384.92	6548.01	35183.24	5928.18	15434.29	917.16	412494.95	0	378494.2
7498.54	410355	16	3059.84	7219.49	41064.82	6527.63	17021.88	1022.99	399433.1	0	254702.1
7498.61	416153	16	2003.11	6457.75	43093.47	6351.88	16505.37	992.83	401692.85	0	274743.36
7498.67	374559	17	1243.96	5972.61	35042.39	5373.16	14003.38	823.13	393524.69	0	381650.12
7498.74	360183	17	2483.86	6825.54	49536.56	7437.3	19315.89	1206.99	441575.21	0	51074.05
7498.81	404745	16	2328.48	6556.5	37622.5	6022.83	15653.33	933.92	409794.99	0	306409.53
7498.87	365862	17	2099.22	5944.15	55762.4	6886.46	17857.03	1107.37	447670.12	0	104739.28
7498.94	384972	17	530.3	5207.43	49241.74	5800.55	14988.75	907.82	438078.9	0	155619.88
7499.00	359842	17	841.61	6121.24	42633.18	6819.52	17687.31	1097.53	474870.63	0	45528
7499.07	354186	17	617.34	5978.29	43134.5	6706.71	17401.95	1080.37	467190.13	0	40783.24

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7499.13	368072	17	822.31	5925.88	41205.51	6493.87	16821.67	1039.96	465098.04	0	60844.23
7499.20	337184	17	772.25	6180.47	43673.56	7338.43	19033.59	1205.83	471392.72	0	0
7499.27	338476	17	1058.63	6230.28	42271.09	7218.9	18716.2	1180.57	482530.99	0	16744.61
7499.33	356098	17	1078.37	6034.38	45610.29	6826.76	17696.01	1097.78	465772.32	0	129508.11
7499.40	359853	17	1222.35	5615.2	53103.57	6516.43	16899.78	1040.02	450687.92	0	100602.27
7499.46	336992	17	1383.94	6015.29	48820.33	7181.25	18630.62	1181.86	468120.65	0	0
7499.53	345115	17	1233.78	5519.8	57605.22	6680.2	17332.27	1068.8	458224.98	0	114517.75
7499.59	392368	17	766.36	5281.12	49050.17	5980.96	15456.29	932.68	427140.81	0	228093.41
7499.66	408116	16	690.38	5025.7	39925.9	5313.35	13753.77	816.51	419105.39	0	308083.4
7499.72	377406	17	0	5147.89	35700.55	5307.15	13701.35	817.79	442323.19	0	282826.31
7499.79	363327	17	520.71	5250.86	38590.81	6005.2	15519.97	953.47	509541.54	0	0
7499.86	393502	17	590.39	5279.39	38347.55	5662.91	14626.1	879.99	469554.55	0	64390.46
7499.92	444709	16	0	5299.44	39702.31	5577.84	14468.55	858.81	411450.41	0	183575.94
7499.99	436492	16	609.55	5033.19	43905.02	5378.3	13951.99	825.79	387514.95	0	322804.99
7500.05	622815	14	0	1585.41	10973.45	1409.68	3608.33	198.18	435393.23	0	506115.59
7500.12	368021	17	978.08	5645.23	46682.72	6524.7	16851.59	1033.04	443191.7	0	141699.25
7500.18	340507	17	1212.41	5647.41	53713.29	7179.13	18559.07	1166.77	462080.21	0	0
7500.25	335206	17	1147.82	5109.13	62618.87	6579.7	17009.15	1042.03	467020.65	0	107841.6
7500.31	299299	17	0	5146.16	38287.1	5557.07	14350.05	871.25	518438.37	0	254263.05
7500.38	354709	17	768.29	4857.12	41834.71	5320.64	13731.71	816.21	423082.5	0	281143.16
7500.45	413137	16	1477.74	4842.57	32181.32	4229.5	10906.57	628.03	391449.06	0	360425.18
7500.51	360790	17	508.77	4547.06	40606.28	4644.34	11995.74	704.58	422001.47	0	366191.73
7500.58	247711	18	0	4547.81	44220.77	5070.37	13110.28	787.36	488475.43	0	313797.05
7500.64	301489	17	0	4453.32	34051.43	4608.76	11945.97	699.76	466191.93	0	399235.32
7500.71	302536	17	0	5239.11	29887.12	5293.9	13709.96	808.88	487544.39	0	335249.41
7500.77	337508	17	0	4975.69	29039.81	4946.86	12768.59	746.94	445723.46	0	375023.71
7500.84	292986	18	807.9	5579.88	34521.38	6137.53	15905.92	978.16	527896.93	0	139812.7
7500.91	333375	17	480.27	4669.62	26377.49	4587.57	11838.11	690.64	459358.59	0	368429.9
7500.97	288562	18	0	5596.47	32765.32	6047.74	15638.94	949.22	508416.21	0	222778.43
7501.04	349020	17	6216.4	9925.51	29194.44	6454.01	16750.99	999.26	411821.84	0	373253.12
7501.10	424956	16	15175.47	16683.4	26537.37	8387.01	21925.55	1322.21	314977.44	0	449331.95
7501.17	426880	16	13028.92	13657.08	20581.03	6036.83	15741.12	915.59	281822.35	0	506568.21
7501.23	474101	16	32618.09	28441.45	33545.96	10500.87	27502.83	1692.27	236123.01	0	427392.45

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7501.30	321113	17	2484.9	6431.22	24817.45	5213.83	13561.55	791.32	432165.84	0	422749.42
7501.36	393828	17	21228.53	18071.41	40187.01	7462.39	19484.14	1164.64	348482.99	0	432553
7501.43	189049	18	2436.07	3282.08	7773.69	1845.84	4776.62	264.35	431036.44	0	507965.55
7501.50	332354	17	7134.35	11416.58	39187.97	9428.29	24564.09	1596.88	434842.37	0	37268.35
7501.56	497699	15	10302.9	10784.23	70063.99	6335.2	16551.04	979.49	364629.64	0	388726.15
7501.63	317592	17	1717.93	5913.56	23855.66	5032.57	13022.66	762.85	463502.4	0	367712.44
7501.69	308756	17	3234.84	8680.51	29615.36	7422.29	19320.76	1201.21	475033.51	0	191792.2
7501.76	332552	17	5693.69	10721.8	35556.97	8920.79	23268.97	1503.52	429664.24	0	21726.2
7501.82	384625	17	4710.43	9816.41	31732.67	7342.09	19072.68	1156.74	396284.42	0	290402.79
7501.89	442580	16	3638.96	7837.68	25513.03	5559.08	14390.25	839.28	357819.61	0	459983.81
7501.96	407355	16	6208.12	9639.6	26666.37	6388.93	16635.45	987.65	382468.75	0	395481.85
7502.02	333427	17	2714.52	7888.09	32317.85	6884.52	17874.3	1098.04	458186.66	0	180161.74
7502.09	374359	17	18954.45	20271.81	34068.36	10263.78	26846.79	1685.78	346614.47	0	260065.23
7502.15	369409	17	39651.45	32374.93	48786.82	14355.58	37835.79	2577.72	369615.81	0	0
7502.22	177311	19	0	5319.84	31447.32	6110	15814.94	1004.98	649953.81	0	77321.75
7502.28	177221	19	0	4728.84	30722.07	5120.72	13234.57	807.34	603426.29	0	130809.32
7502.35	229716	18	0	5396.73	40640.29	6404.83	16597.83	1052.07	590781.52	0	37522.78
7502.41	246996	18	816.37	5009.16	48501.36	6205.68	16058.21	996.49	502736.87	0	34956.76
7502.48	284276	18	0	4614.34	32089.79	4844.35	12522.42	741.25	497928.82	0	234358.21
7502.55	291006	18	0	4446.58	32072.73	4601.58	11870.76	702.2	493398.76	0	294365.38
7502.61	237225	18	0	4911.68	36846.16	5421.17	13925.24	851.72	544881.89	0	79463.79
7502.68	231419	18	997.3	5260.26	35925.97	6045.43	15629.02	978.74	493955.73	69765.9	17911.3
7502.74	349863	17	532.8	5361.27	33084.37	5573.01	14437.67	866.1	426065.52	0	142531.61
7502.81	538836	15	0	2527.18	14155.52	2267.66	5844.45	325.63	381548.62	0	497890.83
7502.87	309250	17	0	5573.47	35167.42	6158.88	15957.17	986.83	483489.4	0	6870.41
7502.94	336984	17	612.08	5594.49	35052.11	5947.3	15382.05	933.7	447318.25	0	92270.42
7503.01	341176	17	0	4836.74	27493.72	4827.41	12498.61	731.1	467839.24	0	308641.61
7503.07	337410	17	505.1	4619.59	27338.89	4560.27	11794.95	686.22	472651.2	0	311415.79
7503.14	316510	17	659.58	5868.38	36465.66	6485.92	16864.35	1047.89	458421.64	0	0
7503.20	356830	17	638.75	5044.11	34742.87	5197.83	13447.57	799.44	432536.67	0	235688.13
7503.27	318474	17	856.68	5187.97	40438.94	5677.12	14659.45	889.52	461725.6	0	95495.79
7503.33	339858	17	810.84	4604.87	38803.37	4880.28	12593.47	747.13	461225.49	0	216290.75
7503.40	278199	18	787.87	5067.39	39872.2	5617.83	14540.53	885.12	516215.1	0	81959.84

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7503.46	311687	17	952.54	5367.31	37579.42	5849.15	15094.69	925.42	481731.82	0	84852.43
7503.53	272733	18	673.7	5968.38	35933.27	6547.47	16896.72	1041.65	452236.94	0	0
7503.60	334159	17	681.13	5573.13	37198.65	5958.01	15390.81	935.02	462565.86	0	75265.06
7503.66	404928	16	556.31	4648.19	31667.86	4705.13	12095.87	708.25	416636.8	0	322482.33
7503.73	306747	17	936.63	5721.73	38842.39	6363.12	16439.26	1018.78	467759.96	0	17879.7
7503.79	355707	17	0	5060.21	34157.95	5135.68	13285.74	781.79	436236.22	0	247939.9
7503.86	353570	17	551.74	5145.76	31592.93	5348.14	13833.27	818.76	453386.41	0	210593.01
7503.92	489676	16	0	4210.65	23140.85	4070.06	10499.2	599.16	389093.16	0	455518.63
7503.99	320528	17	662.38	5620.72	35499.7	6243.38	16139.76	991.32	457333.41	0	0
7504.06	341094	17	497.3	5973.23	35885.24	6348.15	16450.07	1002.69	447590.41	0	62841.39
7504.12	491206	16	0	3051.31	15693.2	2820.53	7263.52	406.2	384807.64	0	472199.6
7504.19	345119	17	619.75	5847.52	41625.84	6568.53	17028.44	1050.18	435502.93	0	35254.68
7504.25	334955	17	866.72	5539.51	48376.33	6325	16419	1006.04	364121.68	52221.12	0
7504.32	343566	17	0	5131.86	37438.04	5337.55	13813.22	822.66	432641.26	0	179241.65
7504.38	321735	17	484.58	5652.61	39430.38	6184.71	16025.68	986.83	477721.02	0	24679.64
7504.45	335250	17	525.6	5163.71	35426.57	5496.86	14223.97	857.33	447216.27	0	143524.59
7504.51	316697	17	636.47	5639.84	37198.94	6304.87	16272.67	1008.99	479131.3	0	0
7504.58	307540	17	541.72	5599.7	34688.03	5949.69	15405.11	944.51	490158.7	0	0
7504.65	316281	17	619.4	5533.34	39077.9	6168.03	15890.01	973.58	483248.51	0	0
7504.71	305602	17	892.7	5534.91	36752.48	6122.05	15823.18	967.34	459702.54	0	0
7504.78	320161	17	548.88	5998.53	36266.05	6623	17093.59	1069.08	475280.18	0	0
7504.84	319535	17	826.15	5976.67	39419.19	6710.03	17375.36	1085.63	474369.64	0	0
7504.91	325366	17	932.96	5894.57	42578.73	6749.28	17466.09	1087.54	457702.19	0	0
7504.97	317230	17	888.21	6209.22	38905.73	6879.88	17879.64	1112.95	479587.88	0	0
7505.04	456916	16	519.29	4127.38	26030.17	3908.61	10080.82	573.12	380365.61	0	451161.4
7505.10	300669	17	572.67	6148.92	31867.54	6508.74	16885.23	1047.05	502872.08	0	43310.33
7505.17	343844	17	803.73	5828.6	33374.48	5958.59	15419.39	932.14	455921.31	0	163662.94
7505.24	486753	16	391.11	4470.39	27866.9	4348.78	11247.39	648.1	367567.88	0	442809.38
7505.30	342936	17	649.34	6459.23	41048.88	7100.39	18398.65	1137.88	399312.72	43044.69	0
7505.37	382501	17	619.82	5325.91	34470.3	5472.57	14170.89	841.12	425286.61	0	280233.73
7505.43	384702	17	675.59	4985.4	38554.86	5192.54	13443.88	797.49	424943.67	0	283774.12
7505.50	366361	17	0	5517.94	28380.21	5392.39	13918.59	823.68	439268.06	0	274670.53
7505.56	163885	19	0	5691.7	28544.55	5842.81	15104.83	919.02	458260.41	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7505.63	306873	17	1201.49	5991.97	40676.14	6751.37	17508.85	1101.89	499439.68	0	0
7505.70	282074	18	647.38	5397.89	42222.37	6300.36	16359.8	1018.72	528702.95	0	35559.21
7505.76	272395	18	1195.35	5692.42	34157.19	6170.93	15944.15	989.44	535298.92	0	43280.65
7505.83	286107	18	1038.32	5987.93	47307.08	7411.99	19312.45	1232.02	521179.55	0	0
7505.89	350296	17	1746.25	5427.92	53476.17	6146.41	15936.39	969.82	450330.49	0	119613.56
7505.96	362185	17	618.95	5047.72	38070.23	5205.82	13468.7	792.64	403533.61	0	334404.47
7506.02	365072	17	846.83	6677.34	53051.4	8316.23	21449.04	1367.2	467633.93	0	0
7506.09	389669	17	870	5872.84	44331.33	6249.72	16085.48	984.54	435058.16	0	266220.45
7506.15	387526	17	908.3	5818.73	47543.66	6487.04	16731.08	1018.99	435191.78	0	216180.07
7506.22	346442	17	620.37	6321.84	50187.23	7755.21	20077.96	1269.76	471988.91	0	65997.29
7506.29	373374	17	1066.91	5777.26	61271.05	7172.37	18590.71	1157.63	432135.41	0	72449.33
7506.35	344524	17	1334.3	5519.99	65967.07	7105.4	18376.62	1146.35	445808.48	0	49529.42
7506.42	348530	17	1294.89	5612.86	63721.13	7236.21	18849.44	1186.17	406994.67	0	0
7506.48	339254	17	1132.85	5667.31	53077.15	6667.27	17280.05	1076.51	366417.18	46047.08	0
7506.55	318728	17	1119.1	6344.89	36804.17	7059.48	18293.99	1158.72	465769.69	0	0
7506.61	322791	17	784.27	5574.66	33572.07	5874.06	15257.55	924.83	482829.07	0	151022.4
7506.68	326105	17	1005	6136.45	36154.56	6726.17	17387.71	1088.29	453750.08	0	0
7506.75	374651	17	462.77	5801.82	32285.14	5924.32	15303.06	917.72	444404.67	0	249125.17
7506.81	364981	17	737.02	5676.53	37567.51	5973.92	15399.98	925.99	448730.98	0	218176.96
7506.88	350276	17	1053.38	5902.59	38923.88	6431.76	16619.87	1026.57	444516.13	0	73409.7
7506.94	313753	17	879.58	6283.31	34787.91	6944.1	18068.8	1143.46	472137.59	0	0
7507.01	357484	17	592.91	5865.36	35681.47	6265.17	16245.79	987.46	450105.77	0	157309.71
7507.07	328953	17	711.8	6036.36	45919.07	7023.66	18229.75	1154.05	470777	0	0
7507.14	410679	16	624.05	5220.22	32261.92	5118.51	13295.48	784.66	399804.91	0	344040.61
7507.20	372087	17	736.98	5599.1	44290.94	6098.43	15820.91	955.06	410931	0	156481.3
7507.27	322518	17	1068.43	5802.1	41165.11	6821.04	17684.31	1107.86	469462.89	0	0
7507.34	312620	17	896.46	6168.05	37717.09	6839.09	17805.52	1117.61	473308.63	0	0
7507.40	307728	17	812.41	5834.25	41939.5	6637.37	17218.03	1081.29	481717	0	0
7507.47	307607	17	1319.62	5153.76	36879.7	5571.5	14440.79	863.54	443754.19	0	177826.87
7507.53	305349	17	1158.55	5648.1	36363.8	6089.11	15802.24	971.58	490328.37	0	110123.85
7507.60	321783	17	1618.15	5917	39187.49	6636.72	17230.74	1081.45	468353.83	0	0
7507.66	297194	17	1113.83	6048.64	35428	6620.89	17226.15	1080.18	505133.47	0	16054.49
7507.73	263582	18	905.22	5397.8	43607.22	6352.01	16456.85	1026.25	458305.35	51514.63	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7507.80	339400	17	913.16	5104.16	52962.95	5906.86	15359.34	933.32	440955.35	0	92847.96
7507.86	317655	17	932.1	5900.62	49852.07	7265.59	18892.36	1190.61	472472.89	0	0
7507.93	297460	17	850.17	6158.32	46830.16	7337.13	19019.99	1214.2	503443.6	0	0
7507.99	298580	17	768.16	5992.07	46621.23	7168.46	18612.86	1178.62	519763.1	0	0
7508.06	342116	17	540.07	6319.33	45830.1	7594.81	19651.29	1248.12	459526.96	0	0
7508.12	436330	16	0	4950.34	32212.13	5114.89	13202.12	774.03	405987.22	0	368321.47
7508.19	295250	17	0	5078.89	34134.08	5445.89	14092.77	849.64	501837.32	0	220659.91
7508.25	253731	18	0	5620.53	36632.79	6470.62	16835.39	1060.64	548575.82	0	40299.52
7508.32	357660	17	0	4447.53	43351.57	4802.11	12416.7	728.7	430588	0	365289.01
7508.39	272435	18	928.85	5069.39	45201.3	6256.52	16223.01	1009.81	502922.01	0	0
7508.45	279583	18	647.52	5272.54	41127.13	6051.51	15705.17	954.14	499073.6	0	80580.45
7508.52	260883	18	876.73	5251.47	43100.06	6137.29	15991.53	993.54	515331.08	0	0
7508.58	278852	18	11067.96	4561.79	38834.12	5879.44	15231.83	959.7	569082.76	0	0
7508.65	295724	18	592.64	5581.73	38167.85	6354.93	16484.12	1027.57	488386.96	0	0
7508.71	272786	18	853.65	5533.84	39341.65	6479.41	16811.43	1056.27	520802.08	0	0
7508.78	286857	18	557.23	5244.97	32513.25	5590.63	14475.72	886.12	507995.82	0	212629.45
7508.85	256449	18	877.45	5197.88	37948.85	5978.52	15501.29	965.79	557456.77	0	78257.49
7508.91	219121	18	1043.95	5459.51	33608.23	6401.61	16590.35	1055.55	588634.43	0	8222.17
7508.98	262868	18	524.6	5681.09	30738.93	6142.25	15925.5	978.15	531452.72	0	167767.77
7509.04	277572	18	0	5318.16	30831.62	5693.51	14789.85	889.32	508219.41	0	237903.01
7509.11	242842	18	0	4995.57	32738.12	5223.69	13583.6	814.8	533054.99	0	180535.3
7509.17	255715	18	0	5752.8	30728.02	6106.31	15909.95	985.42	544286.58	0	131023.36
7509.24	518077	15	0	3301.63	16358.93	3057.96	7896.55	442.59	375621.13	0	480136.86
7509.30	408820	16	0	4798.75	23457.69	4669.12	12097.49	698.02	401520.06	0	408805.11
7509.37	451192	16	1183.2	5294.87	25360.18	4654.55	12032.51	692.73	387799.46	0	440839.71
7509.44	355042	17	614.44	5128.8	30559.57	5172.06	13341.61	786.53	432228.66	0	306138.02
7509.50	356984	17	0	5092.55	31585.97	5248.12	13583.12	809.79	445511.33	0	270843.66
7509.57	296667	17	664.46	4967.64	35982.65	5364.96	13884.44	833.02	522180.24	0	109857.39
7509.63	365018	17	23513.16	4676.6	36131.24	6197.48	16115.11	1003.21	541680.69	0	0
7509.70	343595	17	643.81	6083.9	36309.52	6622.87	17111.26	1056.51	475110.29	0	0
7509.76	367696	17	0	6201.07	34704.9	6660.58	17253.1	1068.17	464528.38	0	64341.79
7509.83	332760	17	0	6247.65	33565.6	6912.7	17872.48	1121.5	501402.15	0	0
7509.90	314925	17	785.89	5430.34	35388.5	5939	15272.99	924.61	490227.72	0	111260.85

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7509.96	315346	17	740.16	5888.16	38679.42	6739.38	17454.39	1095.35	490704.77	0	0
7510.03	520290	15	0	3167.53	18428.85	2936.89	7542.6	424.62	373763.23	0	478716.9
7510.09	312576	17	711.78	6283.68	38115.88	6819.51	17571.71	1088.03	403668.96	56279.68	43486.42
7510.16	475082	16	0	2800.05	83357.1	3329.69	8596.29	505.51	322766.26	0	296925.19
7510.22	340061	17	566.63	5935.78	39049.06	6689.18	17237.97	1069.93	470260.88	0	61516.1
7510.29	372939	17	0	5310.12	28171.22	5308.22	13746.14	813.86	447551.95	0	307491.3
7510.35	430592	16	0	2433.6	10921.63	2148.78	5531.49	308.29	429374.29	0	478866.48
7510.42	262171	18	548.63	6040.74	29354.47	6680.76	17380.18	1108.27	526338.25	0	0
7510.49	404077	16	0	2330.26	99434.82	3199.07	8267.17	482.59	378156.01	0	84622.44
7510.55	313809	17	582.81	6239.51	32392.48	6662.65	17280.03	1078.69	455920.19	0	0
7510.62	317062	17	5631.68	5793.67	28665.75	6446.71	16766.11	1052.37	531050.34	0	0
7510.68	239591	18	1024.33	5963.14	29795.97	6441.04	16733.75	1057.65	556256.91	0	0
7510.75	292471	18	603.66	6073.71	33848.8	6738.87	17471.23	1098.22	487421.99	0	0
7510.81	256301	18	1019.13	5989.76	32011.01	6710.91	17381.65	1094.48	550635.58	0	34539.47
7510.88	258577	18	539.52	6183.82	31098.48	6713.85	17382.61	1085.35	506762.22	0	0
7510.94	325959	17	1372.92	6970.39	36026.41	7535.13	19436.87	1231.29	481265.84	0	0
7511.01	324308	17	827.87	5521.19	35670.67	6176.83	15923.06	966.96	463104.01	0	144202.53
7511.08	373820	17	501.79	5154.23	34952.85	5423.29	14000.43	838.12	438708.9	0	262942.38
7511.14	307453	17	491.12	6154.46	35559	6969.89	18024.66	1127.46	478898.23	0	0
7511.21	331281	17	863.3	5856.39	35850.87	6383.92	16559.19	1015	453944.62	0	97632.71
7511.27	412980	16	387.81	4609.6	32101.18	4618.19	11957.09	697.53	414167.14	0	363426.45
7511.34	296448	17	864.04	5908.58	37022.25	6668.62	17224.82	1076.9	487666.3	0	0
7511.40	332728	17	0	6117.52	36555.63	6716.48	17383.64	1071.45	472884.72	0	127155.7
7511.47	382513	17	0	5853.42	32722.26	6117.7	15733.48	936.22	440322.2	0	269591.91
7511.54	482714	16	0	5118.5	25474.49	4993.05	12819.19	741.4	396910.52	0	439443.62
7511.60	158570	19	0	4544.43	33347.23	4820.79	12265.62	733.33	404568.57	0	0
7511.67	331817	17	816.72	4785.54	47526.05	5509.59	14178.63	850.42	465307.22	0	222847.07
7511.73	271067	18	957.5	6187.15	32313.25	6853.74	17730.06	1123	539293.67	0	0
7511.80	322076	17	842.48	5084.64	35679.97	5227.8	13505.12	816.95	484726.61	0	223041.67
7511.86	387508	17	669.95	4419.99	42630.3	4670.08	12087.47	705.07	422052.08	0	358037.44
7511.93	289106	18	861.59	4832.81	38170.79	5080.29	13071.16	783.11	510578.4	0	251089.17
7511.99	295801	17	827.95	5475.4	37275.46	6229.41	16073.31	1006.9	515124.52	0	0
7512.06	303836	17	0	6029.41	36261.47	6840.05	17577.12	1104.54	513024.12	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7512.13	298387	17	551.67	5567.78	43269.59	6702.15	17200.33	1089.59	524426.34	0	0
7512.19	290741	17	0	5553.14	45181.71	6660.86	17049.06	1084.14	520779.61	0	0
7512.26	207264	18	844.44	6002.07	37205.56	7016.52	18148.33	1173.47	591349.57	0	7612.07
7512.32	418214	16	0	2441.9	15523.19	2231.55	5709.11	319.83	415896.01	0	482442.08
7512.39	270668	18	866.23	5298.13	44387.3	6424.94	16592.43	1044.98	522610.69	0	0
7512.45	340366	17	684.24	5095.43	66695.98	6698.15	17263.3	1086.25	473722.2	0	0
7512.52	301788	17	770.63	5354.98	47977.06	6396.76	16520.82	1033.86	508675.95	0	0
7512.59	394971	16	434.22	5132.45	39124.02	5223.83	13483.72	795.84	409295.14	0	319621.16
7512.65	293022	17	550.39	5570.3	40148.77	6506.17	16772.55	1053.69	496884.34	0	0
7512.72	472865	16	0	4178.89	25149.19	3993.64	10298.75	591.63	377368.56	0	452605.48
7512.78	455678	16	414.23	4595.79	27500.15	4474.54	11556.21	668.99	397565.28	0	427447.96
7512.85	321357	17	831.87	6281.43	37236.88	7068.95	18342.01	1154.81	489061.03	0	0
7512.91	308282	17	634.42	5529.56	36181.26	6066.27	15724.9	961	498998.57	0	61143.48
7512.98	376690	17	0	5266.38	29691.07	5316.42	13725.29	810.16	445762.92	0	287247.76
7513.04	304927	17	546.37	5735.88	27640.37	5747.66	14864.47	893.83	472273.66	0	168584.98
7513.11	373966	17	453.18	4749.07	28696.25	4677.26	12096.08	708.27	445627.59	0	329145.31
7513.18	268383	18	820.96	5810.83	41176.76	6702.88	17396.66	1100.81	541671.7	0	0
7513.24	407062	16	0	5283.96	27560.38	5164.94	13369.9	780.17	414972.38	0	344724.74
7513.31	473128	16	0	4455.49	28518.3	4316.46	11137.56	643.44	374153.32	0	458955.25
7513.37	313501	17	937.93	5610.81	38263.28	6351.08	16475.02	1019.43	468262.25	0	0
7513.44	308212	17	993.76	6101.27	35114.57	6441.09	16637.67	1025.64	439549.68	45088.11	50294.75
7513.50	341287	17	522.25	5583.55	34683.09	5902.03	15226.46	919.16	465359.78	0	195913.83
7513.57	339182	17	954.47	5984.08	40326.65	6879.17	17733	1109.89	468425.38	0	0
7513.64	253899	18	903.67	5824.01	39572.66	6434.05	16531.6	1026.18	459744.35	0	0
7513.70	347644	17	806.79	5591.29	34322.11	6001.72	15469.13	936.95	478796.06	0	139066.63
7513.77	295351	17	798.34	5887.35	36983.76	6558.23	16927.63	1059.77	514102.6	0	0
7513.83	302580	17	849.92	5837.67	42319.23	6672.72	17249.83	1090.24	485146.35	0	0
7513.90	332202	17	1084.96	5300.57	60196.65	6623.98	17078.88	1059.93	456154.07	0	38518.06
7513.96	279779	18	899.93	5298.38	39103.76	5972.06	15421.73	960.43	517957.69	0	0
7514.03	347684	17	722.5	6166.78	33352.14	6487.91	16763.93	1029.84	463663.58	0	129347.05
7514.09	350248	17	504.05	5360.61	53751.86	6266.34	16142.26	982.33	438194.46	0	147119.07
7514.16	467273	16	353.19	4078.65	22219.07	3742.57	9659.12	553.54	393492.37	0	464682.45
7514.23	303695	17	760.5	6428.05	33946.34	6992.8	18141.04	1139.9	476145.22	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7514.29	377717	17	1134.3	4558.54	81627.5	6260.53	16280.56	991.4	395122.37	0	0
7514.36	358937	17	610.53	5742.84	38970.26	6136.3	15913.47	975.74	448677.96	0	132317.09
7514.42	408519	16	0	4978.98	27407.16	4938.19	12784.77	746.62	405311.81	0	387027.47
7514.49	552620	15	0	2250.02	10565.65	1963.56	5046.51	278.13	423580.28	0	501062.42
7514.55	319540	17	560.58	6061.58	37500.78	6550.43	16877.16	1051.05	485036.02	0	85125.75
7514.62	314216	17	742.52	6251.78	41880.28	7309.82	18960.38	1196.34	484453.69	0	0
7514.69	303286	17	702.05	6128.27	29783.54	6468.42	16803.14	1041.38	484603.66	0	29091.28
7514.75	309340	17	614.7	6020.44	30792.12	6599.49	17114.62	1069.24	484509.41	0	0
7514.82	344517	17	0	5641.15	33745.89	6021.37	15666.79	951.62	452350.6	0	0
7514.88	370704	17	0	6274.96	31665.19	6413.46	16641.23	1021.51	470391.14	0	0
7514.95	599599	14	0	1678.27	8259.83	1435.23	3699.99	203.19	428962.77	0	504092.35
7515.01	394837	17	0	4379.26	23091.98	4192.26	10893.47	626.44	426760.07	0	400043.91
7515.08	311998	17	0	4504.36	25427.67	4305.89	11190.23	650.37	462898.72	0	339538.01
7515.14	356446	17	0	3885.22	26744.35	3689.37	9563.83	543.9	412990.11	0	452655.93
7515.21	636904	14	0	1410.84	7756.65	1226.39	3164.26	171.11	437642.53	0	510290.77
7515.28	643500	14	0	1231.06	5311.29	1031.82	2652.45	143.46	452415.24	0	504467.81
7515.34	664732	13	0	1236.56	6968.99	1063.3	2723.99	147.51	454548.38	0	508787.54
7515.41	626438	14	0	1329.12	6156	1152.82	2961.05	159.33	460773.15	0	503002.65
7515.47	431113	16	0	2673.86	22191.75	2448.88	6319.22	355.08	397733.24	0	485130.59
7515.54	619384	14	0	1924.39	8851.04	1695.77	4372.85	239.97	424291.28	0	508518.5
7515.60	645312	14	0	1761.2	8783.38	1535.31	3954.34	216.49	418572.67	0	515210.12
7515.67	114084	19	0	4699.87	31070.6	4697.63	12194.62	714.98	580329.23	0	137172.26
7515.73	489214	16	0	4950.01	23803.92	4731.45	12297.8	710.63	359786.32	0	419334.39
7515.80	324001	17	1013.36	6434.43	39062.22	7162.01	18571.3	1162.55	469071.91	0	107295.44
7515.87	468890	16	313.04	3081.57	18133.37	2891.65	7477.77	420.5	386702.59	0	480338.68
7515.93	582443	14	0	2349.96	11962.44	2104.41	5426.84	301.52	415052.46	0	500758.7
7516.00	497286	15	0	3967.32	20638.29	3743.17	9664.69	549.56	345402.17	29125.91	477328.63
7516.06	426813	16	559.14	5497.08	28853.83	5427.93	14059.51	826.02	404463.87	0	388983.79
7516.13	348626	17	474.95	6018.03	32231.38	6348.36	16521.82	1000.23	432416.83	0	252889.57
7516.19	549494	15	0	2660.64	11553.93	2377.66	6134.26	340.26	409533.42	0	495336.62
7516.26	548876	15	330.33	2602.81	42553.32	2729.53	7043.79	396.47	354212.5	0	502150.43
7516.33	372035	17	943.46	5884.25	31660.69	5956.27	15475	929.15	425505.42	0	265900.64
7516.39	527741	15	0	2505.08	10731.6	2191.35	5664.78	313.93	417784.87	0	497486.18

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7516.46	422332	16	0	5124.2	23448.8	4955.24	12867.99	746.7	406354.78	0	438296.72
7516.52	400342	16	529.04	6182.04	44072.69	6947.39	17888.98	1089.59	426727.48	0	207801.2
7516.59	497255	15	0	4556.25	38190.98	4639.2	11906.26	688.87	358776.5	0	476840.34
7516.65	365720	17	736.21	5337.09	42343.22	5834.43	15015.27	896.53	438242.12	0	311695.42
7516.72	370791	17	1422.83	5163.94	38196.41	5630.58	14501.68	863.17	447104.77	0	327652.64
7516.78	301737	17	555.52	5508.93	48978.15	6102.53	15810.95	954.28	430420.48	0	235694.45
7516.85	302406	17	929.51	6423.12	48690.58	7624.49	19761.12	1238.01	516844.7	0	129526.78
7516.92	561168	15	0	3070.07	19875.69	2914.84	7477.66	422.98	388323.85	0	493771.79
7516.98	536661	15	0	4981.43	33803.95	5075.16	13250.85	766.72	377407.51	0	195178.19
7517.05	462345	16	553.67	5131.24	33205.94	5137.3	13485.4	790.86	430253.91	0	208730.58
7517.11	556827	15	0	4925.94	44379.39	5269.25	13797.67	802.18	433467.24	0	104873.66
7517.18	580098	14	0	3680.78	48240.69	3904.98	10243.86	586.97	372506.1	0	155713.6
7517.24	561972	15	0	5061.62	43972.57	5265	13713.08	809.21	423746.66	0	79507.39
7517.31	522081	15	0	2619.45	14924.43	2442.66	6304.48	354.17	375994.12	0	491775.72
7517.38	374299	17	673.74	7128.98	52558.58	8594	22402.59	1423.29	479065.53	0	0
7517.44	329585	17	689.01	7327.75	43836.15	8826.69	22955.55	1503.39	480172.03	0	0
7517.51	311347	17	1028.19	6677.66	42330.14	7379.37	19130.74	1195.04	465832.5	0	174728.7
7517.57	360611	17	1253.94	7134.82	43443.61	7969.29	20696.95	1299.18	448531.32	0	135040.83
7517.64	322004	17	1162.73	7167.32	41124.76	8211.71	21325.96	1373.59	504861.45	0	0
7517.70	315120	17	1143.71	6270.33	32035.7	6239.01	16210.74	969.7	432860.32	0	294945.3
7517.77	278812	18	980.16	7811.93	34702.05	8691.86	22630.07	1460.79	448039.77	68143.48	12888.03
7517.83	326000	17	0	7778.29	30505.58	8253.01	21532.08	1372.66	516903.75	0	66703.01
7517.90	474119	16	0	5673.57	22611.93	5370.39	13895.45	805.06	385118.44	0	441844.32
7517.97	549272	15	0	2829.39	11405.24	2550.77	6579.68	366.92	411405.9	0	490859.96
7518.03	379103	17	607.04	7546.98	32744.4	8090.93	21037.71	1325.69	464295.96	0	102203.11
7518.10	616642	14	802.2	3688.97	7788.04	2619.34	6812.33	374.49	314540.72	0	295432.81
7518.16	635620	14	4271.95	9417.87	7661.06	5911.72	15507.33	905.91	461111.03	0	16265.7
7518.23	639114	14	6078.34	9892.23	8394.31	6131.6	16112.35	942.57	437793.13	0	0
7518.29	616558	14	1900.58	6595.51	9505.83	4465.97	11688.81	653.16	256356.19	0	418442.72
7518.36	545921	15	22259.48	22802.1	22830.51	9683.78	25453.02	1549.98	359177.46	0	0
7518.43	620536	14	41140.57	30968.05	17271.6	7658.74	20142.6	1177.45	213815.07	0	235010.87
7518.49	632466	14	14189.77	12662.27	8950.65	4481.97	11710.34	666.36	351256.96	0	127445.12
7518.56	637098	14	0	2877.89	7122.36	2208.14	5751.52	318.3	473211.1	0	32246.93

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7518.62	302806	17	0	2662.66	7299.09	2156.25	5597.77	312.42	400776.4	0	103265.6
7518.69	542088	15	0	2012.04	4795.86	1576.99	4125.25	222.64	360888.58	0	237610.65
7518.75	517061	15	25783.37	1745.66	5834.82	2102.7	5508.79	310.44	528216.98	0	30057.64
7518.82	513099	15	0	2089.5	5559.88	1741.24	4553.24	250.04	535570.38	0	31860.38
7518.88	451361	16	0	1938.77	5342.25	1456.35	3779.91	212.26	408554.03	0	208007.77
7518.95	520598	15	0	2512.68	7205.19	2005.49	5198.51	286.48	508622.82	0	44037.69
7519.02	531156	15	0	2004.21	6100.73	1678.13	4398.89	242.63	430097.48	0	137176.32
7519.08	574427	15	0	1876.3	5414.34	1560.61	4057.28	220.22	301411.09	0	332611.56
7519.15	555803	15	0	2662.39	8900.17	2364.75	6116.65	342.01	524601.39	0	18486.49
7519.21	469131	16	0	2469.64	6877.18	1943.1	4998.5	271.62	430897.79	0	187990.43
7519.28	620432	14	0	2056.21	5588.67	1721.79	4459.97	239.5	310696.49	0	295992.18
7519.34	620402	14	0	2068.1	7600.49	1710.64	4439.19	242.59	359885.74	0	187793.59
7519.41	627859	14	0	2469.28	8350.86	2030.71	5266.07	286.72	465605.02	0	50789.79
7519.48	659809	13	1349.74	3440.79	5394.13	2138.53	5567.11	304.73	267288.4	0	458535.06
7519.54	594526	14	1346.88	4417.43	8488.7	3049.53	7925.94	441.93	320780.81	0	286642.69
7519.61	492364	15	329.26	2883.42	7775.74	2156.68	5583.04	306.27	378446.38	0	472525.02
7519.67	404871	16	662.1	7947.68	30483.98	8281.88	21561.51	1352.89	458350.62	0	108070.69
7519.74	209358	18	1156.44	7655.34	28106.86	7724.61	20096.86	1264.58	449838.06	0	0
7519.80	476854	16	10633.08	13880.46	45997.88	8077.9	21089.92	1263.07	283094.89	0	419669.95
7519.87	452488	16	0	6497.21	22303.54	6087.95	15843.9	940.06	396881.52	0	382733.78
7519.93	321586	17	575.19	7122.97	28088.88	7127.73	18528.71	1126.93	434283.39	0	213628.26
7520.00	459834	16	16953.45	18165.55	85654.42	11758.96	30890.33	1965.01	330219.51	0	38532.46
7520.07	444424	16	0	7316.37	24172.19	7363.96	19210.01	1182.17	481921.4	0	35487.33
7520.13	361345	17	658.1	7370.83	31335.96	7920.53	20680.03	1310.36	512459.09	0	0
7520.20	417863	16	0	7315.47	26443.68	7443.5	19463.95	1203.47	486872.16	0	0
7520.26	565307	15	0	5207.02	18928.15	4752.92	12420.84	720.27	480816.17	0	0
7520.33	548158	15	0	3983.32	14437.67	3757.53	9783.19	554.35	413555.81	0	148329.92
7520.39	530922	15	0	4725	14476.09	4394.54	11458.64	662.57	438142.53	0	112866.24
7520.46	459453	16	0	7006.12	21613	6782.14	17722.01	1077.21	498750.55	0	29119.83
7520.52	361309	17	0	7193.05	26616.43	7503.08	19577.15	1217.14	494732.77	0	100828.88
7520.59	312423	17	0	6532.18	28281.19	6599.93	17156.65	1055.94	489463.78	0	179433.46
7520.66	346560	17	576	6284.77	28271.87	6416.91	16687.45	1010.03	451487.35	0	249018.48
7520.72	307116	17	1031.47	7072.95	31959.86	7804.99	20391.56	1311.25	489146.54	0	6974.84

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7520.79	365211	17	0	7097.7	24300.67	7061.22	18380.48	1125.23	451778.39	0	224988.49
7520.85	345491	17	561.38	8200.27	34038.14	9155.07	23979.59	1573.94	494588.08	0	0
7520.92	298323	17	0	8537.62	32834.34	9811.77	25673.09	1720.2	508104.05	0	0
7520.98	411741	16	576.93	5734.14	20071.76	5427.24	14156.09	829.03	434757.25	0	406301.6
7521.05	307956	17	1000.26	7363.39	42552.86	8730.48	22818.83	1482.35	480183.9	0	0
7521.12	304664	17	1324.8	7005.22	42526.92	8080.54	21132.54	1346.4	492439.31	0	48852.25
7521.18	389002	17	1171.47	6490.53	57110.07	7785.16	20343.39	1247.95	423198.6	0	181400.76
7521.25	366340	17	798.09	6919.52	34279.13	7496.07	19619.13	1205.92	457443.16	0	232707.47
7521.31	294533	18	1003.99	7424.39	31941.39	8225.05	21574.07	1393.86	525164.78	0	9812.93
7521.38	276033	18	748.47	6930.04	34368.22	7719.34	20217.28	1276.61	487904.43	0	43878.07
7521.44	304849	17	1024.35	8308.86	29890.48	9214.69	24163.08	1591.2	490620.03	0	0
7521.51	475936	16	416.75	5602.95	23663.32	5445.29	14177.09	826.58	388406.87	0	464452.55
7521.57	380439	17	1074.46	6334.28	36918.88	6749.13	17665.26	1057.37	438903.11	0	295574.88
7521.64	327209	17	1071.32	7020.13	33001.64	7576.37	19788.27	1230.3	497488.21	0	172197.34
7521.71	235365	18	1211.81	7868.74	31971.84	8913.3	23332.1	1547.73	560101.98	0	6694.17
7521.77	288730	18	1359.74	7572.16	36170.74	8484.57	22253.25	1415.12	412141.22	64100.34	83713.67
7521.84	333205	17	927.82	7661.36	27899.52	8310.01	21737.8	1381.28	474472.17	0	95835.26
7521.90	327307	17	1049.11	7500.01	40601.4	8916.59	23409.9	1519.42	489179.22	0	0
7521.97	383437	17	858.21	6495.48	37798.03	6938.71	18140.59	1095.6	427628.98	0	288234.84
7522.03	319970	17	1320.37	7070.81	36852.44	7785.79	20339.12	1282.55	490825.22	0	101239.14
7522.10	464196	16	489.42	5057.68	60596.25	5802.2	15197.28	889.09	377438.89	0	411368.58
7522.17	337002	17	1006.67	7749.33	30093.07	8337.15	21824.79	1380.14	468211.38	0	109975.36
7522.23	365727	17	1180.86	6998.89	33205.46	7431.52	19441.86	1192.05	441498.81	0	215063.61
7522.30	445261	16	813.76	6297.11	35456.33	6354.28	16629.57	983.09	397232.68	0	372416.95
7522.36	407197	16	733.89	6460.91	37364.94	6713.49	17547.35	1051.56	419670.31	0	288609.79
7522.43	328262	17	540.18	7613.09	30107.78	8065.89	21132.91	1328.78	494127.59	0	118342.56
7522.49	322874	17	919.65	7883.96	33130.85	8475.65	22165.73	1403.32	433104.04	46983.03	114965.57
7522.56	496493	15	0	3223.5	35746.51	3305	8564.01	485.26	378649.38	0	491220.81
7522.62	538087	15	0	3061.59	14428.7	2846.3	7359.36	412.57	411359.36	0	496267.18
7522.69	325489	17	943.25	7909.99	39595.24	9243.01	24131.94	1586.17	488832.02	0	0
7522.76	411183	16	0	6521.25	32603.04	6586.79	17131.94	1027.22	416634.98	0	374996.14
7522.82	327299	17	6048.98	7354.26	30728.69	8259.91	21595.8	1386.65	527714.1	0	136268.37
7522.89	309108	17	622.97	7737.11	40735.52	9040.7	23691.07	1553.41	514903.44	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7522.95	389833	17	681.54	6678.27	26600.48	6770.66	17621.9	1062.77	442352.68	0	320506.5
7523.02	329726	17	794.37	8075.69	34666.95	9069.77	23738.89	1557.8	528016.28	0	0
7523.08	411237	16	481.1	7679.46	40473.39	8304.69	21590.6	1341.75	423354.5	0	220103.74
7523.15	595153	14	0	6479.32	15464.07	6244.53	16265.13	954.41	439659.66	0	51362.98
7523.22	491609	16	0	6416.35	25408.2	6377.97	16676.68	983.09	353343.22	0	435781.48
7523.28	421604	16	0	8354.92	30294.84	9041.62	23700.29	1501.16	492080.62	0	20628.09
7523.35	340200	17	559.61	8576.53	27506.74	9175.08	23996.71	1546.99	498714.45	0	9719.46
7523.41	473099	16	0	7127.62	22653.79	6936.68	18103.43	1075.35	389764.13	0	367951.04
7523.48	432365	16	0	7539.84	26855.8	7573.19	19716.66	1194.47	410444.56	0	312860.27
7523.54	331793	17	0	8679.32	28120.51	9583.65	25073.2	1647.92	507046.42	0	0
7523.61	450373	16	0	6711.51	17334.72	6415.02	16754.2	988.91	405015.09	0	433191.4
7523.67	384240	17	0	6884.86	22482.73	6623.82	17237.44	1025.42	382772.43	38847.29	398788.58
7523.74	449453	16	0	6847.13	17527.65	6518.81	17015.95	1006.27	399391.73	0	390929.96
7523.81	98472	19	0	4910.74	8022.96	4831.73	12618.02	762.33	702708.65	0	105840.89
7523.87	382782	17	454.41	7600.7	15439.27	7369.72	19287.34	1171.96	448460.4	0	265669.92
7523.94	284936	18	852.01	7795.16	25249.99	7989.97	20791.11	1291.65	474582.93	0	170937.87
7524.00	349772	17	592.82	9258.58	20582.85	9837.07	25879.57	1698.85	492986.72	0	0
7524.07	420483	16	0	6989.81	24888.3	7062.85	18458.01	1102.36	419024.27	0	314392.07
7524.13	374084	17	0	8906.74	28466.94	9693.67	25453.18	1641.2	487048.01	0	14660.96
7524.20	317854	17	672.27	8500.6	21150.65	9045.51	23718.09	1538.2	509209.06	0	27929.08
7524.27	416171	16	0	6997.33	17894.31	6812.55	17816.12	1062.72	412073.11	0	367725.99
7524.33	467490	16	0	6184.08	11197.64	5764.41	15048.2	871.29	393707.26	0	464609.1
7524.40	415087	16	0	8764.4	14165.92	8502.93	22373.1	1386.43	492566.84	0	68165.15
7524.46	628671	14	0	8724.49	14865.16	8470.87	22257.46	1336.47	421733.19	0	72919.67
7524.53	541271	15	0	8930.72	17129.03	9025.36	23741.63	1453.54	439634.41	0	109186.5
7524.59	551232	15	60282.12	42919.47	134377	15328.03	40634.79	2546.77	222097.56	0	100166.26
7524.66	600176	14	9786.82	11649.23	14739.31	5418.05	14213.8	820.85	408627.99	0	96607.68
7524.72	576497	14	40860.43	33977.02	22390.85	10728.02	28256.85	1712.26	327842.5	0	106575.03
7524.79	642939	14	0	3200.72	6887.2	2842.74	7430.28	407.77	432814.53	0	86943.2
7524.86	638326	14	0	4084.07	7352.56	3797.12	9968.96	565.97	446867.57	0	69307.97
7524.92	638049	14	0	4003.92	8622.34	3627.23	9509.7	532.68	473864.31	0	32866.63
7524.99	512080	15	0	9224.1	15829.42	9242.19	24292.46	1517.04	500565.32	0	4131.21
7525.05	463900	16	0	9564.4	16330.43	9902.04	26067.45	1656.67	521309	0	9162.62

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7525.12	428051	16	0	9582.48	21778.08	10130.34	26641.52	1708.12	470637.08	0	60015.7
7525.18	616466	14	0	4333.37	8429.58	3946.14	10312.3	578.06	340066.84	0	490816.96
7525.25	470522	16	0	7008.63	13061.44	6643.27	17395.08	1027.77	394559.14	0	414120.34
7525.31	482479	16	0	6763.43	16457.98	6451.04	16884.33	989.59	363958.14	0	451438.29
7525.38	396154	17	0	7068.73	13694.09	6776.27	17754.31	1057.69	427874.55	0	361475.76
7525.45	363356	17	0	9189.93	19537.12	9627.18	25337.88	1637.12	493667.6	0	57027.95
7525.51	471889	16	0	7371.86	12926.66	7060.87	18496.85	1094.65	383364.92	0	389693.8
7525.58	495175	15	0	10057.54	17182.32	10641.86	27995.45	1795.9	483513.17	0	0
7525.64	485819	16	0	6434.55	19258.92	6236.93	16322.53	952.2	371439.47	0	321142.35
7525.71	368672	17	0	8378.32	24209.91	8929.12	23419.57	1484.28	482089.26	0	92856.14
7525.77	336431	17	607.3	9035.57	17584.69	9507.73	25006.33	1633.7	499277.21	0	0
7525.84	372477	17	346.24	3917.85	10592.14	3461.31	9001.77	506.95	405023.69	0	472697.14
7525.91	310349	17	1179.54	8904.91	18104.19	9091.45	23938.25	1559.44	535180.25	0	0
7525.97	365225	17	704.11	8016.78	15848.2	7663.08	20091.38	1230.29	467742.36	0	227191.92
7526.04	424053	16	596.45	6981.9	13115.78	6542.65	17140.68	1014.08	420055.42	0	388927.46
7526.10	355027	17	0	8232.12	23260.57	8232.06	21539.38	1334.23	457835.81	0	224716.33
7526.17	399735	16	0	9823.51	18894.9	10174.71	26737.1	1745.66	523724.73	0	0
7526.23	413206	16	0	10222.3	23302.11	10899.95	28683.73	1875.05	491713.51	0	30327.57
7526.30	631716	14	0	2471.57	6220.73	2189.05	5697.32	312.08	422316.1	0	515983.92
7526.36	598639	14	1293.61	6346.8	12450.06	4751.22	12432.74	704.16	303500.55	0	464506.18
7526.43	385067	17	1581.19	9055.86	32828.66	8931.25	23356.89	1468.01	444052.98	0	169896.81
7526.50	341917	17	1839.94	10124.32	28444.66	10833.48	28451.17	1903.1	506882.33	0	0
7526.56	553589	15	3884.89	8968.1	8526.54	5520.56	14435.01	831.66	328323.8	0	498251.5
7526.63	408389	16	943.33	5878.59	47385.02	6075.44	15682.12	936.79	414995.81	0	288418.74
7526.69	350194	17	1394.68	6350.67	58145.45	7495.73	19305.27	1218.93	499028.83	0	28591.74
7526.76	510337	15	428.53	3198.5	18762.19	2815.09	7189.79	406.8	404137.94	0	482242.88
7526.82	374521	17	708.8	5918.98	40317.68	6010.84	15459.24	920.9	452496.73	0	305762.67
7526.89	307837	17	5571.35	6221.35	33260.96	6480.04	16689.74	1035.46	535725.03	0	157868.67
7526.96	332339	17	727.5	5533.95	29005.84	5283.49	13590.11	799.34	459239.95	0	360325.17
7527.02	413486	16	394.43	4584.83	27520.57	4318.17	11107.35	646.67	416383.3	0	425074.9
7527.09	370225	17	539.68	4662.49	27551.88	4345.96	11138.99	643.34	432522.21	0	402715.32
7527.15	351607	17	435.08	4229.2	26068.5	3909.4	10038.39	576.85	436693.71	0	439598.66
7527.22	481290	16	422.17	3170.01	15544.76	2727.24	6986.5	393.36	387094.9	0	466515.87

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7527.28	487293	16	0	4521.41	24790.73	4145.33	10668.51	610.92	374865.08	0	442713.39
7527.35	306173	17	1033.04	6229.49	37681.45	6614.45	17068.21	1067.84	531571.52	0	0
7527.41	331972	17	668.99	6569.21	37408.03	6954.42	17938.52	1124.65	475947.71	0	0
7527.48	370060	17	799.89	5906.15	32904.27	5786.37	14975.05	898.38	447022.11	0	214008.49
7527.55	336765	17	661.91	5809.34	34299.06	5898.74	15167.7	917.05	475684.89	0	117930.64
7527.61	357131	17	756.4	6233.82	35954.96	6376.22	16406.11	1001.64	446294.63	0	89668.99
7527.68	361058	17	964.44	6077.55	31346.64	6080.32	15657.1	950.48	445852.67	0	145801.71
7527.74	349396	17	1034.76	5691.47	33560.96	5878.34	15114.03	913.94	451804.39	0	160771.04
7527.81	269628	18	5061.7	4605.3	40077.62	4940.15	12642.64	758.55	497629.83	0	120377.12
7527.87	338202	17	1039.73	5591.72	29646.23	5363.56	13811.1	820.6	460655.15	0	154701.23
7527.94	297455	17	1061.63	6203.37	35981.94	6830	17717.9	1110.45	500386.03	0	0
7528.01	315283	17	1235.13	6455.94	35247.35	6819.25	17628.85	1099.04	487837.84	0	11679.16
7528.07	360924	17	908.84	5883.88	36102.69	6113.46	15730.28	950.99	453006.43	0	189381.37
7528.14	349713	17	1230.53	5716.84	36889.19	5980.12	15417.96	932.96	454627.26	0	123178.28
7528.20	367220	17	1016.54	5825.47	37933.84	6159.86	15886.49	952.7	436141.69	0	146203.16
7528.27	363545	17	1427.83	6943.97	39346.29	7561.94	19565.37	1225.96	451820.75	0	0
7528.33	361699	17	1077.14	6982.18	38875.1	7586.25	19659.84	1232.73	443300.49	0	49266.23
7528.40	469072	16	504.05	4908.66	20411.8	4554.08	11806.51	675.11	370824.68	0	350313.89
7528.46	417557	16	624.92	6361.59	25550.19	6297.54	16290.24	981.32	406491.83	50762.04	0
7528.53	377792	17	732.14	5779.29	29756.77	5680.38	14690.91	875.73	441393.56	0	185469.54
7528.60	409774	16	704.84	5861.43	27646.74	5649.52	14610.2	872.04	462370.1	0	69662.02
7528.66	350216	17	682.05	5429.07	28025.58	5312.21	13764.23	813.72	429801.12	0	205628.99
7528.73	452587	16	722.72	5145.86	27168.69	5036.49	13028.86	760.61	391874.8	0	334537.17
7528.79	362403	17	1289.27	6536.62	34538.36	6720.81	17444.27	1071.77	453599.22	0	111561.49
7528.86	398286	16	8182.36	5231.41	67681.91	7229.95	18735.5	1164.02	485557.02	0	12694.17
7528.92	320270	17	943.53	6760.59	36333.27	7326.12	19005.56	1201.62	490055.4	0	0
7528.99	392416	17	754.76	5602.81	28889.73	5510.43	14236.82	843.72	428686.06	0	318755.79
7529.06	329409	17	1124.43	6190.8	44220.26	7214.82	18634.84	1171.61	488924.47	0	47573.03
7529.12	280240	18	1257.1	5915.57	50127.24	7257.65	18645.75	1172.47	486246.8	0	43753.18
7529.19	494519	15	781.2	4702.35	35957.52	4802.98	12382.03	718.91	371563.95	0	441826.93
7529.25	348542	17	1141.07	6094.38	56724.6	7608.34	19753.27	1246.97	458760.13	0	7295.99
7529.32	295551	17	836.94	6309.94	38605.04	6909.9	17968.5	1117	512868.22	0	164707.09
7529.38	320087	17	798.85	5047.07	37833.33	5257.7	13586.55	798.73	454728.71	0	350524.34

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7529.45	415794	16	854.38	4934.42	33904.48	5031.28	12960.21	753.99	401215.11	0	398745.01
7529.51	530647	15	0	2130.68	9944.09	1855.38	4774.65	262.68	434008.55	0	500150.63
7529.58	459789	16	353.39	3463.5	19416.1	3235.97	8348.25	471.72	396675.75	0	472360.4
7529.65	443352	16	0	2283.19	19129.46	2120.67	5461.7	303.12	421770.76	0	489061.99
7529.71	333208	17	1118.4	5153.47	33218.64	5128.9	13310.98	781.73	455338.16	0	359020.56
7529.78	289556	18	1456.91	5188.5	31795.88	4827.88	12477.61	719.38	399241.04	0	448066.59
7529.84	256343	18	2226.26	5188.76	61407.92	5470.18	13937.31	826.97	265412.29	73380.11	153824.83
7529.91	440944	16	1039.71	5134.12	31016.34	4871.32	12597.7	732.38	392957.1	0	457673.6
7529.97	368822	17	3304.35	6235.37	35632.56	4861.75	12501.78	730.66	423897.43	0	426457.84
7530.04	262001	18	1078.55	6417.97	35676.83	6862.78	17713.96	1090.64	439696.59	0	90832.11
7530.10	376478	17	1297.36	5979.3	48261.02	6736.48	17377.21	1067.53	425692.51	0	126577.6
7530.17	339122	17	1595.32	6645.14	40373.52	7274.59	18874.25	1179.37	467305.48	0	135178.23
7530.24	338100	17	11657.61	14008.36	27351.91	7850.89	20486.48	1248.13	409285.01	0	367895.95
7530.30	367693	17	44804.43	33003.77	46855.51	10361.31	27175.02	1727.35	370642.31	68266.02	160104.46
7530.37	550849	15	3524.38	4991.07	10363.34	2610.18	6749.35	378.83	418552.62	0	495963.23
7530.43	355231	17	1674.27	6609.09	32289.33	6535.64	16984.49	1031.57	442847.58	0	184066.89
7530.50	399852	16	4554.14	9548.21	25635.68	7274.59	18985.84	1156.77	454386.2	0	52050.97
7530.56	399351	16	2414.68	7111.52	26181.85	5881.83	15265.4	900.15	408461.63	0	344430.19
7530.63	443799	16	554.59	5254.67	23027.57	4938.07	12794.24	740.99	383454.42	0	402341.61
7530.70	436174	16	2814.12	7010.58	25788.12	5676.95	14722.97	865.91	384290.99	0	425371.5
7530.76	453535	16	146033.42	91954.93	40908.33	19918.34	52686.72	3588.59	284408.36	0	137048.1
7530.83	454042	16	1945.37	4567.79	15023.37	3333.93	8607.91	486.23	397217.38	0	487168.1
7530.89	453830	16	135018.76	83452.18	44714.12	18561.33	49168.41	3354.92	327707.78	0	0
7530.96	339725	17	1733.98	7114.74	39824.97	7804.31	20275.13	1289.66	457480.02	0	46041.69
7531.02	633272	14	19670.83	15536.02	18805.3	3537.27	9232.68	516.93	330088.21	0	583413.03
7531.09	364493	17	1614.74	5810.27	24996.88	4838.15	12551.74	729.54	439805.59	0	400696.65
7531.15	263056	18	2536.15	7547.07	30005	7050.95	18308.3	1150.4	539177.15	0	73327.16
7531.22	329758	17	1775.34	6894.11	27873.58	6429.01	16681.75	1016.48	466412.95	0	192545.91
7531.29	436727	16	4641.47	9736.36	24133.48	6902.95	17954.42	1068.1	360144.38	0	422296.8
7531.35	436543	16	87650.97	58312.82	50061.01	17300.47	45702.57	3086.77	316154.48	0	84837.34
7531.42	485534	16	6849.26	9250.57	14236.35	4650.46	12080.68	696.34	356858.25	0	500565.63
7531.48	352685	17	19682.86	18284.87	31009.53	8554.06	22340.4	1381.45	420953.09	0	339099.98
7531.55	364774	17	24697.3	21252.01	22068.74	7355.29	19231.49	1149.11	378631.22	0	448492.45

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7531.61	362992	17	4444.29	8380.93	25029.5	5858.59	15242.71	896.96	423755.01	0	406689.3
7531.68	467359	16	0	2769.77	11723.16	2457.51	6344.85	353.31	412832.03	0	483800.35
7531.75	304817	17	702.05	5395.44	25042.37	5136.85	13332.45	788.7	471119.74	0	303054.37
7531.81	430795	16	0	2349.44	9527.37	2017.58	5200.69	286.16	437214.73	0	486304.55
7531.88	254710	18	2150.14	6577.16	27739.27	6173.45	16074.69	978.67	584280.14	0	153780.34
7531.94	512970	15	913.77	2719.01	12402.19	2276.23	5884.68	326.67	405283.51	0	490815.04
7532.01	306823	17	2542.2	6691.59	28528.85	6071.38	15786.65	948.87	484128.64	0	224611.91
7532.07	298107	18	4614.78	8238.36	30163.6	6751.98	17640.76	1095.7	540988.85	0	96787.68
7532.14	317668	17	1513.37	5379.73	20930.97	4685.14	12135.9	702.34	431950.86	0	259967.89
7532.20	372300	17	24060.17	20572.03	23249.62	6804.72	17813.69	1054.97	407094.02	0	252508.9
7532.27	457665	16	0	5777.23	21590.55	5552.04	14437.4	858.58	469940.11	0	45709.75
7532.34	464291	16	42320.26	33909.49	27264.33	11750.36	30993.07	1955.24	364145.02	0	96598.67
7532.40	519335	15	0	4419.36	17095.75	3818.77	9954.08	567.64	388622.79	0	210290.69
7532.47	447598	16	0	4903.93	21257.63	4694.73	12219.15	709.27	448379.83	0	96289.55
7532.53	394404	17	605.73	4116.39	18238.11	3881.66	10049.97	571.82	386279.95	0	414766.03
7532.60	422578	16	467.75	5879.87	25576.37	5796.86	15104.54	892.52	403675.56	0	241046.44
7532.66	384918	17	517.45	6207.72	30928.88	6332.49	16454.16	987.15	432225.94	0	127454.1
7532.73	507656	15	0	3059.46	14077.49	2728.54	7051.89	392.88	386944.05	0	486510.67
7532.80	352194	17	631.55	6364.85	30413.76	6558.91	17005.99	1035.78	464305.99	0	68207.38
7532.86	552054	15	82057.96	52535.44	183513.43	14683.39	38957.84	2452.52	222877.92	0	160296.17
7532.93	378869	17	9555.53	5455.28	29205.2	5903.65	15346.66	927.19	464971.89	0	123800.96
7532.99	516066	15	0	2948.16	12042.82	2600.29	6714.71	374.3	395170.45	0	488720.07
7533.06	419392	16	564.47	4974.29	25835.52	4761.66	12350.26	722.08	403955.79	0	350214.27
7533.12	449683	16	0	4751.23	22057.06	4408.12	11422.14	652.81	375068.76	0	422990.38
7533.19	383749	17	733.66	5778.5	28400.29	5671.56	14686.34	869.5	408451.63	0	246732.04
7533.25	465276	16	0	5284.64	25531.67	5298.85	13731.76	799.4	363615.43	0	363797.77
7533.32	412397	16	722.57	6255.7	36250.47	6527.01	16982.87	1022.97	420363.11	0	100667.13
7533.39	588372	14	0	1789.54	7121.18	1510.76	3887.56	210.36	432738.07	0	504206.3
7533.45	381325	17	918.55	6244.33	32431.67	6463.12	16775.85	1022.32	465256.6	0	54710.71
7533.52	393983	17	640.26	5757.31	29427.94	5696.34	14729.4	875.58	434444.36	0	211381.88
7533.58	508638	15	0	2783.94	11535.23	2471.58	6391.03	354.77	393218.43	0	487168.89
7533.65	372589	17	636.86	5876.8	36289.52	5961.47	15432.02	926.19	414339	0	138909.09
7533.71	501844	15	0	4793.01	21693.52	4430.27	11474.27	653.81	356334.41	0	419860.21

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7533.78	450388	16	470.68	5283.26	25042.7	5109.69	13254.46	774.01	369422.48	0	334224.45
7533.85	371307	17	0	6812	35481.85	7153.14	18565.54	1152.35	445597.95	0	0
7533.91	304571	17	853.58	4856.28	28219.74	4720.5	12240.93	712.22	410926.31	0	337852.3
7533.98	351580	17	1122.78	6372.53	36633.22	6916.84	17922.71	1114.2	480939.11	0	0
7534.04	420587	16	569.9	4903.83	29458.46	4801.94	12394.94	722.86	409312.73	0	321446.63
7534.11	389112	17	618.67	5930.1	34987.88	6252.29	16225.46	991.53	494227.27	0	0
7534.17	453300	16	0	5364.22	29388.75	5335.46	13866.47	822.27	481986.53	0	0
7534.24	506902	15	0	5221.73	24981.42	4937.36	12895.08	748.8	443014.27	0	53311.7
7534.30	479480	16	0	5451.56	26182.91	5316.18	13780.61	806.67	468224.03	0	56456.27
7534.37	463943	16	0	5148.85	22748.27	4940.72	12801.52	744.07	402802.02	0	248611.58
7534.44	405999	16	0	6222.86	31808.25	6424.25	16625.45	1016.23	475868.21	0	0
7534.50	361622	17	822.81	5655.29	30629.2	5814.65	15072.45	906.58	488495.21	0	134148.93
7534.57	400168	16	505.23	5804.31	29171.38	5795.33	15046.26	896.46	436334.6	0	183790.86
7534.63	381511	17	849.77	6595.59	32329.67	7002.66	18210.68	1126.39	474347.19	0	45219.12
7534.70	363123	17	844.64	5713.89	35915.08	5851.01	15213.64	912.05	457446.52	0	161138.54
7534.76	351280	17	706.46	6316.16	33931.54	6785.8	17671.83	1081.91	465550.38	0	12108.21
7534.83	366819	17	720.89	6073.73	32533.33	6280.39	16315.43	979.47	463784.38	0	141080.4
7534.90	523090	15	0	3399.41	14609.96	3060.24	7932.86	446.05	368504.5	0	476949.67
7534.96	416528	16	580.84	4813.18	24950.79	4772.81	12363.81	717.48	410666.62	0	396605.99
7535.03	391302	17	687.5	4682.85	26795.81	4625.23	11956.86	695.55	419431.29	0	391426.21
7535.09	332813	17	963.68	4886.25	30767.11	5038.67	13030.45	764.98	461371.43	0	307134.33
7535.16	259650	18	1020.03	5451.27	38889.03	5881.95	15247.41	925.99	468216.39	0	109353.07
7535.22	342677	17	1172.65	5880.27	38923.45	6370.16	16471.99	1004.79	453472.74	0	100159.28
7535.29	324701	17	1154.76	6034.8	38805.51	6620.56	17156.89	1058.55	479891.85	0	48563.25
7535.35	291522	18	777.15	5923.43	39556.93	6727.46	17397.96	1088.95	517896.18	0	0
7535.42	438341	16	713.84	4811.66	30389.35	4639.95	11955.96	691.06	394503.43	0	386539.84
7535.49	431299	16	444.84	4425.9	25351.1	4248.54	10947.91	627.51	412001.5	0	438719.17
7535.55	335596	17	1211.79	6183.12	44060.76	7263.15	18764.09	1170.03	447376.96	0	16066.83
7535.62	295975	17	1162.74	6282.68	38417.96	7203.35	18665.24	1180.68	490599.95	0	0
7535.68	374276	17	489.46	5551.23	31034.71	5606.18	14516.55	864.44	423757.22	0	292817.66
7535.75	376888	17	426.56	5221.78	28146.81	5031.97	13052.55	766.96	441458.23	0	344896.77
7535.81	601458	14	0	1313.32	5751.19	1103.24	2832.8	152.29	459713.91	0	502840.2
7535.88	221840	18	762.22	5276.36	34550.77	5656.34	14605.14	890.91	554940.72	0	208546.31

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7535.94	297170	18	0	860.7	4245.18	685	1763.4	92.42	453301.17	0	511784.15
7536.01	434922	16	497.54	4278.5	28554.12	4111.71	10601.21	607.94	408337.18	0	429903.42
7536.08	512604	15	0	2923.69	18109.41	2659.63	6816.69	383.42	382248.51	0	482591.66
7536.14	323625	17	979.6	5805.24	38576.44	6232.7	16102.67	984.48	481602.84	0	128141.04
7536.21	253259	18	753.41	4803.3	33836.71	4989.6	12875.95	767.9	515939.11	0	239898.09
7536.27	303368	17	827.65	5260.09	29404.04	5322.99	13744.75	815.31	483485.94	0	280162.86
7536.34	309048	17	562.98	5556.24	28432.72	5618.46	14513.14	870.7	477216.2	0	256940.64
7536.40	318970	17	1014.27	6084.97	33150.73	6281.01	16287.93	991.88	462681.08	0	141069.17
7536.47	329687	17	898	6007.27	34957.33	6442.24	16718.35	1021.78	455276.54	0	86059.36
7536.54	445441	16	383.13	4462.14	26054.46	4315.95	11175.99	637.22	396614.38	0	425704.73
7536.60	595190	14	0	1293.52	6715.22	1113.35	2854.22	154.13	448652.53	0	503562.17
7536.67	511303	15	303.46	2145.67	20209.08	1915.23	4913.6	273.29	406005.64	0	494856.26
7536.73	370496	17	563.66	5114.17	36447.32	5244.33	13535.64	794.92	434023.44	0	303464.79
7536.80	300456	17	523.22	6081.1	36492.27	6695.61	17332.02	1079.12	504112.01	0	0
7536.86	335831	17	765.79	5182.63	31903.85	5299.87	13674.36	805.84	459664.99	0	257844.1
7536.93	431698	16	490.04	4851.85	26310.92	4630.46	11990.51	691.65	382051.31	0	379238.89
7536.99	336816	17	706.94	5728.16	32916.48	5969.08	15466.28	938.17	445194.23	0	95753.82
7537.06	321527	17	653.27	6013.91	36932.71	6505.67	16806.24	1034.17	468905.69	0	105384.62
7537.13	398077	17	388.2	2786.33	14769.03	2440.33	6279.03	348.06	406768.94	0	479788.06
7537.19	308552	17	1064.43	5848.05	41125.07	6637.53	17140.65	1062.38	479494.65	0	0
7537.26	352906	17	740.33	5123.31	29694.89	5082.51	13148.09	774.73	443215.41	0	280358.95
7537.32	313851	17	904.77	5320.88	33180.43	5595.02	14480.71	873.24	473776.02	0	187102.54
7537.39	360646	17	0	4931.23	29383.97	4781.3	12306.79	716.37	450028.65	0	388415.48
7537.45	361836	17	842.73	4653.36	68440.28	5762.37	14896.28	905.56	415310.14	0	69002.97
7537.52	465048	16	0	4490.73	24139.96	4173.2	10790.03	618.79	380310.78	0	448091.93
7537.59	339631	17	824.68	5687.29	36993.52	6093.43	15687.78	959.34	453108	0	56880.59
7537.65	345738	17	1074.19	5394.93	37241.24	5749.68	14879.75	894.37	454937.95	0	152297.66
7537.72	471118	16	585.93	4243.02	26741.22	4035.69	10404.17	596.49	385677.88	0	435689.99
7537.78	375908	17	725.4	5437.51	38281.16	5616.02	14491.13	862.82	423859.43	0	190416.29
7537.85	344122	17	774.14	5336.83	36076.91	5448.18	14112.25	840.62	443326.04	0	201079.14
7537.91	310216	17	1034.52	5653.3	52416.19	6674.43	17277.12	1072.62	424488.43	51488.25	0
7537.98	179536	19	1008.73	4933.77	27287.87	4823.25	12524.96	757.54	561182.34	0	30047.65
7538.04	347000	17	1199.55	5931.6	39764.77	6295.38	16318.77	1000.69	448464.7	0	38560.49

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7538.11	422081	16	659.97	4502.49	28672.31	4340.12	11210.58	647.23	416136.59	0	380745.6
7538.18	348365	17	1314.35	5460.39	40190.6	5551	14403.52	857.35	449718.6	0	204542.21
7538.24	310488	17	993.83	6046.4	39527.06	6602.05	17052.05	1057.69	510742.66	0	73832.94
7538.31	328845	17	1478.53	4799.1	79437.13	5921.24	15360.53	925.38	364855.98	0	79451.65
7538.37	428090	16	953.24	5360.52	49127.98	5504.5	14219.76	836.32	373326.12	0	310269.23
7538.44	365350	17	834.91	6039.02	42258.25	6655.35	17193.47	1055.15	434031.49	0	77176.38
7538.50	355659	17	578.69	6008.46	43179.33	6777.15	17475.28	1080.13	464453.44	0	52979.55
7538.57	440424	16	0	4987.43	31237.11	4974.2	12770.16	743.1	413512.9	0	385642.25
7538.64	340797	17	904.2	5698.03	35443.72	5999.61	15383.97	929.3	477392.74	0	163421.11
7538.70	334267	17	962.15	6200.6	40836.53	6814.48	17490.19	1081.7	472606.65	0	24044.51
7538.77	390751	17	818.44	5487.49	52938.46	5815.05	14923.72	882.49	406818.87	0	285631.56
7538.83	386713	17	512.61	5656.89	36330.51	5614.03	14376.17	853.92	445167.74	0	285163.59
7538.90	357471	17	1114.9	6147.46	41961.99	6428.4	16456.33	1001.41	453013.15	0	161716.65
7538.96	379035	17	5025.22	5869.71	43928.9	6236.64	15978.77	979.3	465262.53	0	160034.84
7539.03	410788	16	727.12	5188.07	38940.94	5028.42	12881.48	756.02	430268.09	0	372275.58
7539.09	420478	16	789.22	5010.92	39512.59	5005.04	12751.42	750.71	411809.05	0	361757.47
7539.16	332743	17	1147.61	6169.73	40051.33	6524.18	16662.63	1029.37	488709.43	0	81433.71
7539.23	338174	17	1418.93	4535.98	79207.87	5680.05	14461.42	862.02	394010.85	0	161191.84
7539.29	424909	16	431.38	5759.47	34400.42	5651.75	14494.9	860.24	412029.09	0	318515.14
7539.36	332403	17	1181.68	6418.05	48248.1	7238.05	18586.98	1160.41	476474.55	0	36879.97
7539.42	416316	16	473.17	4700.39	37217.4	4601.34	11746.79	680.7	401183.54	0	438404.5
7539.49	390478	17	628.56	5446.98	38842.49	5250.41	13455.41	787.73	421021.07	0	357951.08
7539.55	323170	17	687.87	4495.07	29890.73	4088.06	10408.49	605.3	449924.14	0	416081.03
7539.62	475293	16	727.58	5036.89	29840.75	4783.5	12275.89	711.91	390250.02	0	452536.56
7539.69	384045	17	936.14	5891.56	33576.55	5947.56	15363.92	923.42	416990.73	0	224321.64
7539.75	416779	16	543.52	4863.52	29089.94	4687.02	12045.67	699.52	399071.51	0	377560.73
7539.82	360306	17	831.21	4779.54	31139.13	4627.91	11916.73	688.87	383217.38	0	369852.95
7539.88	346952	17	984.41	6414.27	44347.76	7182.69	18516.68	1159.19	429860.1	0	0
7539.95	175871	19	1134.46	4290.07	24354.41	4187.95	10823.47	615.15	366068.17	0	293674.1
7540.01	533369	15	0	3337.75	19574.63	3018.64	7750.54	438.31	370268.36	0	484134.69
7540.08	350719	17	856.09	5841.12	48724.38	6755.37	17327.8	1070.94	438972.67	0	38233.53
7540.14	519779	15	340.62	2925.57	19038.22	2643.85	6755.95	377.63	387670.95	0	487243.57
7540.21	419986	16	684.21	4305.83	42822.92	4332.24	11141.14	648.57	385727.98	0	410760.93

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7540.28	447332	16	0	3221.66	21496.69	2819.62	7211.25	407.86	382960.36	0	476299.73
7540.34	358579	17	978.58	6310.51	42395.51	6951.05	17917.81	1117.88	444001.44	0	7210.36
7540.41	409113	16	559.16	5581.24	35377.71	5682.44	14677.34	873.32	402839.4	0	275243.35
7540.47	586321	14	0	2301.98	22280.77	2086.72	5355.19	297.25	380187.78	0	506034.11
7540.54	665217	13	0	1074.22	6157.6	875.33	2228.49	120.31	458614.75	0	510448.42
7540.60	277124	18	1211.79	6275.81	17981.74	5143.24	13407.66	764.09	383441.06	0	351591.18
7540.67	383519	17	0	2868.07	14643.06	2562.12	6566.94	369.09	418874.97	0	476625.62
7540.73	410896	16	423.99	1846.67	26497.93	1533.81	3983.84	219.67	425290.07	0	510925.37
7540.80	610446	14	0	2391.09	16448.51	2186.68	5589.4	309.89	396995.86	0	515587.73
7540.87	313227	17	0	4447.73	35876	4423.8	11324.87	650.73	378722.38	0	429871.98
7540.93	603410	14	0	2786.41	43515.69	2710.04	6916.8	387.94	349033.71	0	502443.76
7541.00	266998	18	3030.51	6541.7	60488.89	5638.57	14346.78	854.73	420010.91	62683.26	241629.3
7541.06	272582	18	1326.34	5993.34	54327.52	5861.61	14916.32	896.08	488774.47	0	280394.02
7541.13	284771	18	608.75	6229.59	63154.55	7184.49	18250.58	1149.94	530936.39	0	65461.31
7541.19	411888	16	720.44	5289.36	52475.14	5386.8	13580.11	797.49	408362.75	0	369429.84
7541.26	284665	18	1457.7	6103.5	61243.79	6562.79	16646.03	1012.01	475580.8	0	208661.59
7541.33	392343	17	710.89	5024.74	58127.92	4984.83	12649.45	742.09	395220.68	0	386997.46
7541.39	288663	18	2939.64	6836.49	72263.88	6824.32	17352.03	1062.81	483546.14	0	167083.29
7541.46	307316	17	0	5365	56438.6	5260.16	13423.19	793.58	373147.81	70486.59	368928.56
7541.52	309772	17	621	4483.29	64022.3	4791.1	12034.87	698.33	440054.1	0	389178.81
7541.59	302030	17	0	2433.9	50274.2	2295.75	5838.82	332.74	406058.51	0	463460.87
7541.65	307072	17	1059.82	4161.17	78484.49	5138.36	12820.06	774.35	498921.08	0	178917.86
7541.72	284227	18	0	4921.03	66441.27	5385.38	13494.61	812.2	488194.42	0	284962.49
7541.78	265464	18	0	4414.86	60125.98	4741.62	12006.49	708.6	481521.36	0	352315.86
7541.85	365919	17	0	4464.93	53558.83	4672.58	11847.57	696.28	410463.69	0	334187.83
7541.92	439763	16	1020.41	5646.43	67677.75	6206.69	15778.19	948.27	397345.35	0	217502.19
7541.98	360428	17	777.49	5923.79	62148.68	6094.4	15454.76	921.92	402379.23	0	299217.94
7542.05	349909	17	928.61	6126.2	71487.45	7418.04	18818.12	1181.9	504583.43	0	52385.08
7542.11	333450	17	916.57	5428.38	65427.58	6403.82	16191.15	987.93	509110.39	0	114694.69
7542.18	332229	17	519.83	5244.96	53530.39	5732.98	14551.28	871.87	477174.14	0	258175.59
7542.24	320211	17	693.74	5661.44	60460.22	6678.89	16986.43	1048.79	509837.02	0	34877.46
7542.31	388161	17	0	5108.04	38676.53	5079.84	12961.69	757.7	433775.78	0	335594.92
7542.38	341012	17	0	5707.14	40963.94	5941.43	15215.2	912.94	502884.85	0	154536.87

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7542.44	377708	17	0	5243.36	30239.08	5023.53	13046.09	752.94	454636.28	0	145562.33
7542.51	562030	15	0	2377.09	4988.17	1831.49	4770.53	259.48	333538.56	0	307397.23
7542.57	627316	14	0	2902.32	3324.06	2538.56	6623.81	365.47	357041.25	0	186909.61
7542.64	690021	13	0	2911.35	2946.25	2427.75	6320.5	347.61	350096.78	0	155250.13
7542.70	682211	13	0	2725.41	5557.83	2327.81	6074.37	335.99	427323.82	0	67488.49
7542.77	701062	13	0	3382.71	6996.16	2856.84	7476.01	414.36	467930.33	0	15276.14
7542.83	642887	14	0	2000.15	4586.9	1684.81	4395.93	244.35	333136.35	0	183747.76
7542.90	678580	13	0	2524.46	7678.33	2256.8	5848.81	322.83	490574	0	5326.22
7542.97	696120	13	0	1688.06	6003.46	1338.6	3469.9	188.28	221559.98	0	430238.54
7543.03	703070	13	6596.19	1571.46	4464.72	1454.47	3795.59	206.43	219762.8	0	425190.61
7543.10	610544	14	0	3076.74	21067.39	2818.99	7367.82	412.26	427769.62	0	30247.91
7543.16	506214	15	0	3382.37	20417.69	3168.17	8270.7	465.98	435202.28	0	0
7543.23	349425	17	0	3250.69	16707.5	3136.53	8116.69	459.98	526938.2	0	7177.51
7543.29	464204	16	0	2527.91	21068.89	2352.99	6097.37	336.32	356452.43	0	385597.18
7543.36	419979	16	0	4795.75	52086.59	5036.88	13048.56	763.2	419967.88	0	261280.05
7543.43	376387	17	492.16	6083.23	55694.63	7025.14	17846.6	1095.36	470280.09	0	126501.86
7543.49	338436	17	0	5702.32	54407.68	6412.11	16275.45	987.62	443707.69	52950.47	118036.72
7543.56	323357	17	0	6142.88	48460.72	7039.63	18009.28	1132.08	550229.12	0	36388.22
7543.62	337011	17	0	6289.5	49352.87	7157.24	18292.11	1140.54	525922.65	0	68166.7
7543.69	341500	17	573.7	5834.17	55133.73	6618.69	16834.59	1046.13	502272.25	0	19431.68
7543.75	467016	16	731.83	2741.48	176500.85	4223.7	10724.36	629.37	261643.64	67126.48	237651.81
7543.82	302062	17	613.86	5764.43	60900.9	6919.3	17590.53	1103.76	551066.77	0	24857.69
7543.88	360487	17	0	6340.62	50435.55	7207.75	18369.63	1143.24	492254.11	0	92658.3
7543.95	445080	16	0	4720.83	38088.6	4753.96	12236.07	715.32	415395.35	0	175444.42
7544.02	319105	17	0	5387.91	68861.37	6525.78	16812.4	1023.4	421256.29	0	13252.4
7544.08	384806	17	737.52	5823.37	69675.75	7034.3	17913.52	1116.21	478436.59	0	0
7544.15	342837	17	966.52	6270.35	62124.46	7059.66	17954.63	1112.65	407461.5	104917.14	0
7544.21	417313	16	0	6453.08	38180.83	6305.57	16241.58	981.95	492355.89	0	33290.44
7544.28	483777	16	0	5673.71	51760.96	6018.17	15384.64	914.19	399613.01	0	206900.64
7544.34	423108	16	0	6237.79	67121.12	7113.47	18315.08	1122	460531.94	0	0
7544.41	396142	17	739.07	6254.53	68514.38	7428.78	18983.49	1173.81	474596.27	0	39394.68
7544.48	383653	17	809.87	5389.96	42523.85	5333.68	13583.73	807	469848.51	0	257832.46
7544.54	453067	16	890.2	4023.21	103418.96	5037.72	12891.61	772.12	406791.97	0	200707.99

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7544.61	359974	17	0	6766.74	40913.71	7121.11	18318.45	1139.32	511874.24	0	0
7544.67	375621	17	529.13	5259.91	81768.71	6484.28	16662.86	1023.66	451131.28	0	67555.38
7544.74	376409	17	0	6030.32	58931.97	6954.07	17706.15	1092.18	477472.35	0	0
7544.80	394440	17	571.79	5836.28	67830.91	6758.9	17227.05	1068.68	462647.07	0	6522.1
7544.87	399479	16	0	5958.5	57906.49	6265.47	16012.96	977.09	462668.42	0	140956.75
7544.93	379347	17	0	5870.7	55002.78	6103.72	15591.06	936.65	453357.95	0	188976.11
7545.00	395249	17	0	5375.3	48705.85	5381.65	13806.23	820.1	451244.03	0	223618.51
7545.07	393200	17	8687.45	5263.95	67123.92	6595.22	16696.71	1039.16	507126.42	0	31225.04
7545.13	335749	17	0	4970.63	53882.08	5131.05	12994.24	774.34	464813.98	0	204555.78
7545.20	307639	17	0	5038.37	61628.71	6080.53	15328.2	954.05	530521.97	0	0
7545.26	282291	18	0	5123.36	48531.96	5288.74	13521.37	821.37	521126.49	0	0
7545.33	391510	17	6817.38	10438.4	40361.57	7085.38	18195.23	1112.12	420788.74	0	223212.92
7545.39	480716	16	49512.76	38964.04	32454.27	12357.09	32407.32	2022.22	224869.06	0	457207.47
7545.46	375430	17	48480.15	38620.07	55106.99	15534.23	40837.1	2796.74	402320.33	0	27942.5
7545.52	336817	17	12535.91	15376.5	44892.2	9242.59	23911.75	1536.42	478848.31	0	63342.68
7545.59	424141	16	19026.82	19049.25	36023.05	8046.87	20890.67	1257.32	318004.2	0	423167.8
7545.66	435006	16	12104.67	13939.59	27641.93	6790.75	17600.47	1047.55	352267.34	0	364080.88
7545.72	392903	17	7507.94	10201.82	30369.32	5995.3	15530.37	917.03	406208.32	0	359803.37
7545.79	405717	16	26325.49	24453.18	46196.86	11930.11	31061.21	2041.69	367571.16	0	0
7545.85	427772	16	18273.12	18608.25	35013.8	9245.56	23959.92	1477.99	345001.28	0	263250.89
7545.92	602420	14	9561.02	10079.27	14169.45	3737.81	9725.84	549.58	349522.2	0	551398.12
7545.98	346451	17	12291.71	15928.14	32886.9	9765.98	25400.24	1647.54	456224.38	0	21871.38
7546.05	142576	19	1041.44	1580.49	1899.08	1292.42	3358.39	193.64	835365.22	0	102705.11
7546.12	346017	17	30617.37	19033.4	47362.52	11557.03	30202.87	2026.17	511769.72	0	0
7546.18	361851	17	2412.29	7406.43	50581.14	7167.92	18245.11	1145.46	478204.91	0	0
7546.25	362520	17	1245.25	5817.62	60116.94	6724.16	17054.46	1063.86	479972.2	0	0
7546.31	365462	17	1218.69	5387.14	67348.99	6531.45	16517.26	1028	482017.43	0	40463.01
7546.38	376612	17	767.22	6489.22	54643.92	7459.48	19053.65	1193.41	491358.99	0	0
7546.44	391287	17	627.45	6645.49	44997.13	7196.15	18403.74	1155.53	489524.56	0	0
7546.51	487723	16	4853.68	9430.35	20548.5	5604.46	14481.15	840.31	356955.51	0	322421.24
7546.57	519133	15	18136.59	18917.78	74119.38	9309.65	24359.24	1469.34	270518.13	0	187154.8
7546.64	378586	17	14228.46	15849.86	47364.92	8509.15	22130.64	1343.88	336835.25	0	199612.15
7546.71	545124	15	40664.93	29529.57	68968.24	7204.74	18815.14	1103.59	228359.73	0	458560.21

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7546.77	354766	17	703.71	6077.09	61835.13	6773.52	16995.34	1043.96	397054.18	93566.91	6067.4
7546.84	336188	17	603.81	5159.88	64947.6	5953.1	14970.07	914.48	422799.41	59162.22	0
7546.90	372301	17	760.11	5403.06	65224.53	6256.59	15728.9	964.51	451995.87	0	0
7546.97	354393	17	0	5413.32	61112.44	6378.7	16168.95	993.49	472920	0	0
7547.03	446132	16	11467.06	3838.15	122311.67	5930.55	15137.06	922.81	403365.21	0	0
7547.10	358018	17	955.8	4984.34	66625.92	5822.84	14621.05	899.65	469891.94	0	0
7547.17	327083	17	0	5507.82	55356.5	6090.42	15405.1	937.55	456444.14	56149.8	41788.29
7547.23	348609	17	0	5892.05	42154.8	6037.62	15362.8	922.2	457120.48	0	111699.99
7547.30	464646	16	0	5239.52	38049.58	5195.05	13216.2	774.45	413532.01	0	264780.12
7547.36	354266	17	0	6248.96	45431.99	6826.61	17306.6	1062.79	516001.6	0	77865.13
7547.43	438651	16	0	4124.58	25541.68	3855.4	9849.15	561.53	380070.4	0	453786.85
7547.49	426688	16	0	6003.93	57740.42	6564.91	16699.78	1011.59	444198.74	0	82207.94
7547.56	337922	17	0	5797.41	56909.77	6776.06	17290.49	1071.82	535434.36	0	9992.33
7547.62	367860	17	0	5995.04	44236.29	6414.06	16318.74	991.99	511485.65	0	88388.22
7547.69	368096	17	0	4881.55	49089.61	4725.3	11999.98	700	439245.18	0	363147.49
7547.76	335700	17	0	5391.93	36846.97	5314.72	13571.54	800.07	468145.14	0	309789.16
7547.82	216191	18	7648.99	8608.63	36488.6	4597.16	11731.69	694.95	525298.48	0	323050.43
7547.89	206146	18	7306.83	8869.95	55780.05	6163.33	15523.59	948.69	508363.21	0	243777.69
7547.95	252465	18	0	4108.18	61164.04	4284.99	10890.35	635.87	423612.81	0	382748.51
7548.02	309434	17	879.56	5557.99	65337.73	6339.82	15845.84	978.78	444275.17	0	0
7548.08	379521	17	914.44	5510.34	69191.95	6339.83	15977.12	989.67	470694.97	0	0
7548.15	323139	17	0	6118.99	41424.79	6491.55	16405.08	1013.91	526854.12	0	12006.18
7548.22	378285	17	1189.02	4564.99	94002.29	5427.77	13863.14	835.69	463588.21	0	89264.02
7548.28	386686	17	943.08	6120.07	52794.67	6575.94	16712.28	1031.72	444986.33	0	0
7548.35	373841	17	595.93	5381.57	42479.94	5245.7	13265.06	788.57	455546.84	0	162076.41
7548.41	388108	17	0	6128.22	50338.07	6682.3	16859.92	1041.71	478842.93	0	0
7548.48	343644	17	774.52	5593.44	59765.65	6398.09	16188.15	1006.86	481621.62	0	9235.53
7548.54	388029	17	0	5746.11	40671.4	5543.76	13954.79	834.44	450218.21	0	222009.36
7548.61	361954	17	602.18	5840.34	56452.98	6321.46	16065.37	991.19	453470.96	0	11894.69
7548.67	316792	17	761.1	4587.02	43543.27	4509.43	11426.08	675.13	486548.02	0	120297.9
7548.74	340851	17	480.33	4794.73	44084.18	4751.44	12005.66	716.05	470047.4	0	163538.91
7548.81	323392	17	0	4884.4	39051.66	4472.73	11324.98	675.35	485720.55	0	114946.9
7548.87	294573	17	642.57	5322.86	43261.41	5294.18	13379.53	807.56	475058.93	0	107572.98

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7548.94	325716	17	1071.71	5692.47	35684.61	5235.81	13440.1	815.05	479190.44	0	0
7549.00	343257	17	1327.84	6103.66	47635.66	6017.67	15240.46	936.98	449760.03	0	0
7549.07	411155	16	13451.42	5230.4	61086.01	6359.76	16137.85	1003.08	478240.78	0	0
7549.13	346720	17	1054.33	5215.66	58515	5707.89	14381.87	876.43	477446.01	0	0
7549.20	320219	17	486.32	5712.86	45941.62	6130.4	15524.53	971.68	505242.83	0	0
7549.27	331519	17	634.36	5746.29	53361.72	6572.49	16812.66	1040.22	466655.95	0	0
7549.33	322074	17	1307.55	5286.41	49756.95	5770.64	14677.11	904.15	473796.22	0	0
7549.40	340123	17	0	5890.86	55269.71	6766.53	17193.31	1072.77	479101.71	0	11317.9
7549.46	332217	17	840.34	4959.25	57941.77	5682.16	14380.46	879.15	481190.96	0	12609.75
7549.53	337687	17	571.02	4479.02	38947.66	4458.5	11159.68	658.09	463557.66	0	144217.79
7549.59	315617	17	0	4637.67	39104.66	4631.03	11681.13	698.53	476606.61	0	60453.94
7549.66	341552	17	0	4031.47	34043.86	3759.38	9498.48	552.64	458885.54	0	188968.78
7549.72	332828	17	805.74	5252.05	49041.93	5937.16	15139.23	942.04	472653.07	0	0
7549.79	348902	17	0	4571.17	33550.81	4371.35	11064.64	642.81	456692.96	0	229055.33
7549.86	240287	18	0	5412.17	37948.01	5686	14388.11	880	464359.78	0	0
7549.92	398178	17	0	4402.4	33450.68	4235.3	10866.2	628.06	448687.45	0	280527.97
7549.99	361801	17	0	4399.86	34365.52	4202.69	10758.68	629.6	435036.25	0	188875.72
7550.05	334540	17	516.69	5640.1	42883.18	6145.27	15760.96	971	487525.18	0	0
7550.12	352080	17	1485.9	4479.36	32584.88	4526.43	11756.57	691.32	527983.89	0	40202.44
7550.18	308908	17	937.82	5487.2	43944.15	5568.5	14293.78	857.03	412268.41	63978.86	80585.54
7550.25	345583	17	892.53	5757.12	49936.03	6626.3	16992.65	1063.67	494970.72	0	0
7550.31	326988	17	693.54	5800.48	38934.29	6099.26	15736.6	977.3	495024.59	0	35539.78
7550.38	285002	18	583.48	5895.93	43704.81	6850.84	17517.23	1104.65	523719.86	0	0
7550.45	410633	16	0	5166.22	41015.91	5288.64	13608.37	803.18	408779.59	0	249152.48
7550.51	357005	17	0	5120.74	44459.79	5675.76	14636.42	900.16	446636.78	0	0
7550.58	331350	17	0	4932.16	26869.33	4870.92	12584.87	745.97	458169.75	0	143555.2
7550.64	307575	17	0	5199.63	42970.52	5586.97	14154.54	864.79	521078.32	0	66353.33
7550.71	298388	17	423.96	3360.68	25043.59	3059.21	7779.53	445.12	494145.96	0	281018.61
7550.77	288072	18	557.04	4506.57	31174.1	4351.85	11103.92	654.8	507473.66	0	185147.9
7550.84	297542	17	0	4707.71	28220.6	4503.83	11502.36	679.06	477426.73	0	108863.56
7550.91	356169	17	0	4552.04	35151.23	4562.47	11521.16	680.06	455400.7	0	219056.01
7550.97	439871	16	0	3839.16	45024.3	3704.37	9532.09	551.05	391768.91	0	404554.32
7551.04	284262	18	538.82	5247.74	29307.49	5257.75	13555.51	824.52	521721.89	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7551.10	387980	17	1373.69	4832.52	32442.18	4600.62	11758.48	691.57	427968.91	0	203732.53
7551.17	390662	17	0	5074.52	38089.16	4921.43	12551.93	734.15	424059.43	0	299473.01
7551.23	384290	17	900.91	4905.26	45268.72	4677.64	11955.8	706.34	434021.49	0	240433.84
7551.30	343324	17	0	4155.28	23504.25	3831.4	9778.96	565.82	468404.43	0	292090.46
7551.36	400252	16	0	3986.89	39778.95	3822.41	9666.34	552.28	394197.49	0	300165.72
7551.43	294144	18	0	3460.55	24654.94	3052.16	7766.11	448.46	498417.96	0	209627.67
7551.50	281646	18	0	3189.92	18929.72	2780.34	7145.95	403.97	516745.64	0	283471.53
7551.56	207154	18	0	4536.22	27255.25	4506.18	11418.93	678.3	514442.74	0	140776.85
7551.63	373687	17	0	5216.1	38373.32	5442.14	14016.12	844.38	439711.44	0	87712.87
7551.69	522992	15	0	2653.78	41717.97	2591.01	6691.08	373.05	339567.12	0	476441.28
7551.76	466215	16	0	4010.66	21992.82	3682	9379.84	534.12	406298.51	0	438144.67
7551.82	305425	17	0	4248.74	67697.91	5070.14	13078.45	782.51	508487.97	0	158419.9
7551.89	326390	17	0	3897.57	21782.1	3600.56	9147.43	522.36	475940.11	0	304951.66
7551.96	382728	17	0	5752.19	37866.8	5804.97	14749.46	881.13	413521.95	0	258184.64
7552.02	331394	17	0	6077.27	34427.05	6225.44	16021.01	975.02	484985.74	0	133051.33
7552.09	280862	18	674.9	5603.1	30194.44	5557.93	14296.98	868.11	496585.96	0	220101.2
7552.15	540508	15	8655.41	2655.88	5612.6	2140.02	5575.39	313.54	507682.29	0	18084.68
7552.22	654116	14	0	2901.59	4632.81	2296.6	5943.24	329.92	460723.01	0	40124.32
7552.28	651836	14	593.54	2088.16	3935.72	1647.92	4237.91	232.02	337817.65	0	203940.19
7552.35	590349	14	0	2059.93	7876.55	1593.17	4145.21	222.79	361404.94	0	189665.87
7552.41	630531	14	0	3018.22	5122.36	2249.63	5854.59	322.81	356335.1	0	186974.01
7552.48	659914	13	0	1769.83	3604.99	1383.47	3607.14	195.6	295241.02	0	274385.82
7552.55	612197	14	0	2022.96	2907.85	1511.55	3936.22	215.01	386272.2	0	147046.08
7552.61	623372	14	274.28	1431.27	1441.68	956.61	2487.42	134.01	292579.09	0	473433.51
7552.68	641246	14	804.79	1912.55	2172.31	1254.18	3275.97	179.8	231798.38	0	411659.73
7552.74	648064	14	1064.16	2331.13	2906.42	1440.42	3731.59	203.81	291686.47	0	277271.6
7552.81	518325	15	0	2279.37	2115.71	1708.6	4445.9	238.63	214736	0	434626.68
7552.87	698043	13	0	3932.1	2898.72	3459.51	9070.96	506.85	503020.66	0	0
7552.94	680298	13	0	3538.43	2467.09	2897	7598.6	433.39	515365.22	0	0
7553.01	666638	13	0	2574.54	2885.45	2099.92	5532.11	307.94	517163.47	0	0
7553.07	660865	13	2443.89	2543.04	2825.65	2054.15	5334.27	295.99	475395.25	0	38761.64
7553.14	661870	13	0	2165.82	2471.96	1779.36	4621.9	253.08	518802.17	0	0
7553.20	619399	14	1290.29	7426.01	22916.78	5814.53	15252.04	903.62	498524.83	0	0

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7553.27	549064	15	0	2756.48	7933.61	2344.58	6127.3	332.64	329981.64	0	283022.5
7553.33	630129	14	0	5528.29	14652.46	5444.52	14268.22	824.96	416473.29	0	71399.02
7553.40	702584	13	0	686.1	13734.96	594.16	1526.4	83.24	372964.18	0	539344.06
7553.46	428979	16	0	4842.29	27365.84	4595.1	11855.07	691.76	408144.14	0	442626.51
7553.53	309440	17	0	6609.77	35119.83	6982.26	17842.95	1096.23	513303	0	161495.59
7553.60	531825	15	0	1766.12	9993.79	1517.92	3878.73	214.27	442852.85	0	497611.2
7553.66	568001	15	0	3442.62	17260.7	2927.61	7564.76	426.49	416780.76	0	512392.24
7553.73	472000	16	0	4724.46	25444.64	4597.98	11818.97	686.88	390371.5	0	463506.95
7553.79	559909	15	0	2989.56	12346.78	2527.73	6563.61	368.45	392191.54	0	499171.57
7553.86	373558	17	693.81	3689.43	5090.11	2705.19	7031.47	393.78	469383.35	0	489307.46
7553.92	488440	16	0	7407.75	10376.68	6797.25	17801.42	1084.82	432806.42	0	489568.75
7553.99	474909	16	0	3291.67	12699.25	2979.55	7687.61	434.97	392834.56	0	473108
7554.06	103833	19	3413.46	0	11264.9	1335.64	0	206.4	366902.45	0	480156.62
7554.12	234252	18	0	5396.32	31594.89	5473.5	14138.51	859.72	532017.49	0	115196.34
7554.19	308455	17	5560.26	5423.61	34195.88	5741.62	14781.89	920.5	533349.94	0	14649.75
7554.25	300956	17	0	5903.43	34230.89	5902.62	15113.28	928.35	515931.9	0	0
7554.32	349789	17	635.85	5532.22	29549.63	5330.52	13689.22	813.02	473304.2	0	273713.09
7554.38	334600	17	0	3802.21	23554.14	3470.1	8916.84	511.36	466798.18	0	300745.11
7554.45	416475	16	448.79	4443.39	21066.8	4087.48	10493.93	602.86	424972.01	0	370643.6
7554.51	431868	16	0	5266.95	34234.24	5193.34	13191.04	771.26	398493.7	0	343914.76
7554.58	442751	16	627.95	4200.9	49036.27	4267.76	11009.79	645.03	388451.12	0	371449.08
7554.65	439788	16	0	4663.33	19063.2	4227.1	10828.72	622.98	383605.77	24736.68	412527.72
7554.71	428671	16	0	5734.51	24820.26	5475.36	14083.91	830.74	414322.23	0	415784.61
7554.78	467874	16	0	2035.9	15115.26	1560.19	4063.13	224.28	425503.9	0	505605.9
7554.84	209670	18	511.95	5139	12193.17	4216.11	10939.89	627.9	398938.36	0	466703.46
7554.91	297736	17	0	5287.58	27308.3	5386.52	13765.89	829.8	480653.22	0	57549.45
7554.97	324677	17	0	6232	36196.93	6680.19	17155.18	1072.76	490139.36	0	0
7555.04	311056	17	0	4954.56	19574.03	4720.7	12206.91	730.28	482491.19	0	83905.35
7555.10	346152	17	0	5124.5	24977.98	4927.5	12762.31	756.89	467559.32	0	243484.5
7555.17	449410	16	0	3657.8	16675.14	3325.01	8533.25	485.69	384326.87	0	410090.23
7555.24	396367	17	0	6005.92	30822.55	6062	15744.8	944.89	434539.19	0	166181.34
7555.30	637873	14	0	1546.17	23390.21	1308.61	3412.62	184.55	253767.86	0	468529.18
7555.37	652761	14	192.29	1276.22	1809.31	980.15	2522.47	133.64	346453.33	0	512233.6

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7555.43	648299	14	0	1576.73	3493.6	1277.12	3288.46	178.78	323886.3	0	487612.33
7555.50	641791	14	0	2612.72	2812.52	2067.35	5373.61	294.85	316755.78	0	234029.83
7555.56	515587	15	0	2061.18	21022.99	1793.12	4653.33	253.29	334248.64	0	354263.88
7555.63	580364	14	0	3036.89	12755.96	2790.19	7207.03	407.96	399606.75	0	494329.17
7555.70	654100	14	0	1262.34	2164.32	1022.16	2627.51	141.72	324881.53	0	493232.8
7555.76	523233	15	0	6030.88	18621.2	5714.69	14771.63	860.39	352480.54	0	429542.19
7555.83	633206	14	0	2485.59	7450.08	2146.13	5499.99	302.61	430775.62	0	505973.12
7555.89	578099	14	0	3826.64	9578.44	3307.43	8569.5	483.81	392914.85	0	500819.06
7555.96	604713	14	0	3372.63	12707.54	2927.36	7520.31	421.92	402740.47	0	24151.5
7556.02	574704	15	0	2696.62	5532.73	2291.39	5947.93	329.25	400831.89	0	117114.47
7556.09	559671	15	0	2051.35	4194.88	1717.62	4461.34	243.41	333598.14	0	285513.84
7556.15	243095	18	0	8144.18	23709.68	8458.53	21937.51	1389.33	488520.48	0	51434.71
7556.22	481452	16	0	4131.89	4868.31	3455.11	9020.15	504.52	477248.86	0	73216.93
7556.29	181733	19	0	9669.78	15473.9	9253.4	24360.72	1574.13	526589.68	0	326485.61
7556.35	248799	18	0	10527.66	21095.61	11017.24	29062.95	1947.4	537360.75	0	250269.59
7556.42	219315	18	1018.72	7842.68	108875.63	11715.21	30804.16	2053.71	382854.17	0	26796.26
7556.48	281531	18	0	5103.45	9339.4	4704.67	12175.99	705.69	476930.8	0	341660.9
7556.55	352126	17	0	6607.1	22120.34	6381.67	16340.33	991.13	467239.03	0	162315.52
7556.61	334439	17	0	7148.66	23260.27	6958.32	17778.84	1101.35	491903.42	0	0
7556.68	332439	17	0	5939.13	21629.35	5505.65	13987.6	827.94	483068.74	0	52621.38
7556.75	344621	17	0	5856.78	18747.19	5476.66	13967.85	816.15	476091.3	0	162217.86
7556.81	367617	17	0	6950.55	23935.63	6622.36	16969.29	1033.98	481883.19	0	78284.72
7556.88	379264	17	0	6604.37	18595.16	6416.13	16550.39	1007.73	484922.24	0	32673.84
7556.94	430301	16	0	2989.07	48314.29	3153.97	8128.83	468.51	385026.8	0	141127.72
7557.01	378212	17	0	7414.57	25623.69	7564.21	19359.9	1184.18	493921.12	0	121452.31
7557.07	398513	17	0	7425.73	26017.7	7334.47	18730.81	1159.29	462790.54	0	27781.57
7557.14	612431	14	0	2661.5	10283.38	2344.79	5982.89	325.62	297458.49	0	434214.61
7557.20	413155	16	0	5320.38	19216.53	4903.73	12619.05	739.99	426823.52	0	281259.99
7557.27	433351	16	0	9148.81	30742.29	8756.19	22642.97	1433.54	438179.14	0	227834.97
7557.34	348719	17	0	6465.92	26278.13	6530.69	16816.96	1039.78	500921.72	0	60195.11
7557.40	415157	16	0	8113.05	40956.14	8926.29	23014.97	1479.95	492900.47	0	0
7557.47	481344	16	0	2551.89	6818.25	2187.64	5633.77	311.77	446808.79	0	489818.21
7557.53	462535	16	0	982.04	20820.2	935.92	2418.67	134.05	375069	0	460815.42

True Depth	XRF tCOUNTS	XRF Live Time	Ti (ppm)	V (ppm)	Fe (ppm)	Ni (ppm)	Cu (ppm)	Pb (ppm)	LE (ppm)	Mg (ppm)	Cl (ppm)
7557.60	450726	16	0	1761.95	1166.77	1488.36	3871.2	205.68	400326.18	0	417960.37
7557.66	481631	16	0	836.96	771.88	615.3	1601.18	84.02	394118.94	0	478842.86
7557.73	498842	15	175.14	1059.55	2063.57	736.7	1915.53	101.1	401802.49	0	476870.95
7557.80	606336	14	0	678.17	562.24	464.6	1201.61	63.66	418536.85	0	512692.15
7557.86	587553	14	0	2324.43	2276.42	2074.9	5400.95	295.88	353304.5	0	219520.14
7557.93	648111	14	0	2153.54	2337.93	1762.63	4589.61	246.79	327745.06	0	207452.05
7557.99	664767	13	0	2241.27	2354.97	1743.64	4532.11	245.17	350150.32	0	174244.37
7558.06	623808	14	0	2331.16	2421.94	1954.34	5091.4	282.14	447025.6	0	45367.58
7558.12	573901	15	396.89	962.29	620.84	554.61	1442.69	77.22	403550.79	0	513964.03

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
Ft	Total Counts	secs	ppm	ppm	ppm	ppm	ppm	ppm
7445.07	170922	9	135411.58	31362.57	0	4931.72	0	3681.76
7445.13	165018	9	261516.62	60076.39	0	10954.84	0	4622.89
7445.20	273658	7	26390.73	6193.41	0	3138.73	0	272471.03
7445.26	335892	7	14093.65	5657.76	0	2809.08	0	116681.47
7445.33	177759	9	107210.8	23310.03	0	4848.47	0	10597.49
7445.39	94792	9	66298.13	14873.91	0	3534.81	0	5577.71
7445.46	144070	9	284884.25	61312.36	0	12818.63	15312.03	5145.53
7445.52	176220	9	226064.09	56636.93	0	11793.59	6700.14	6510.42
7445.59	160496	9	329754.19	71688.69	0	13115.27	14387.02	3693.24
7445.66	162045	9	338153.61	79763.15	0	14624.5	10328.78	3442.04
7445.72	196806	8	170086.85	43241.74	0	8918.95	0	4898.03
7445.79	172408	9	306697.39	75620.45	0	19526.25	9563.6	7869.37
7445.85	169505	9	347241.37	79510.26	0	16521.17	10361.46	7399.02
7445.92	177975	9	328875.98	70807.38	0	21237.58	7243.16	10632.72
7445.98	187336	8	228175.1	54519.67	0	16432.37	0	11238.98
7446.05	173576	9	316894.28	72441.81	0	21601.1	9948.47	11336.92
7446.12	169737	9	314583.43	71152.48	0	19803.02	7919.88	9379.88
7446.18	165540	9	319997.93	73476.45	0	15548.92	8284.23	8094.45
7446.25	173445	9	205442.92	49679.7	0	12073.07	0	8941.38
7446.31	173943	9	313909.16	75281.07	0	18723.6	0	7694.38
7446.38	176698	9	371365.4	90687.15	0	19286.2	13121.56	6411.8
7446.44	168545	9	317950.32	77299.79	0	23950.58	12065.38	10490.98
7446.51	170287	9	314274.65	73915.75	0	18424	15383.83	8352.89
7446.57	165904	9	308626.13	75567.78	0	17380.46	16773.82	5517.79
7446.64	218623	8	112595.61	31115.12	0	8760.58	0	15599.37
7446.71	121559	9	253673.91	65755.07	0	10528.79	18735.87	2457.69
7446.77	170805	9	365013.78	95147.55	0	14190.92	20948.4	1675.36
7446.84	169237	9	340846.63	88018.47	0	12468.5	22115.7	1957.13
7446.90	263464	8	69523.75	19498.46	0	2152.31	0	0
7446.97	160042	9	329061.57	78548.13	0	12827.44	19238.54	2523.93
7447.03	52256	10	140227.17	32561.63	0	6735.98	0	14419.37
7447.10	130645	9	350211.32	89791.82	0	16244.04	0	2299.38

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7447.17	161022	9	325743.55	78093.75	0	16744.26	17092.63	2431.92
7447.23	137003	9	255898.12	56356.2	0	12449.19	15759.95	6381.12
7447.30	125621	9	243760.3	54144.7	0	11944.33	17973.48	5996
7447.36	125198	9	245424.27	55904.54	0	11183.05	15942.9	7745.24
7447.43	193161	8	63873.43	14681.09	0	5060.14	0	9571.84
7447.49	244533	8	80152.24	18788.02	0	6070.14	0	6769.09
7447.56	140276	9	136833.15	31328.19	0	7576.1	0	4367.57
7447.62	74098	9	71623.63	15351	0	5185.66	0	6686.13
7447.69	72833	9	100275.46	15987.96	0	6931.23	0	5929.8
7447.76	179338	8	109302.53	28781.95	0	6761.95	0	6013.38
7447.82	148904	9	265159.88	63804.58	0	13676.7	15677.96	4377.63
7447.89	179840	8	290873.79	72298.14	0	16698.74	9166.94	5422.94
7447.95	114874	9	207975.25	46644.58	0	10639.36	18695.32	5186.63
7448.02	113571	9	203342.31	40263.59	0	11817.12	13944.61	5628.31
7448.08	194260	8	211935.51	53828.92	0	10885.58	7536.29	2552.11
7448.15	239453	8	82437.09	23243.78	0	6531.77	0	7376.29
7448.22	176814	9	97120.98	22173.54	0	7462.19	0	5436.61
7448.28	150670	9	291624.94	73276.79	0	13462.12	23903	2757.89
7448.35	154185	9	317985.07	78738.56	0	13008.39	11320.76	2043.02
7448.41	195635	8	154357.39	39047.36	0	10651.44	0	9535.05
7448.48	192996	8	148775.2	41903.35	0	7929.41	0	5645.6
7448.54	172854	9	227447.82	60551.46	0	12079.87	10899.96	4914.56
7448.61	179107	8	197775.96	51157.59	0	17057.24	0	10760.1
7448.67	189592	8	129335.01	34012.1	0	9836.09	0	10823.01
7448.74	215322	8	111068.19	27508.81	0	6521.63	0	7561.31
7448.81	250585	8	70790.61	19249.19	0	7954.35	0	14895.7
7448.87	261608	8	84751.41	22678.16	0	5228.8	0	7433.57
7448.94	296772	7	38931.44	9433.47	0	4648.48	0	8222.05
7449.00	266326	8	80603.92	19845.31	0	4411.93	0	12869.09
7449.07	109662	9	340192.4	79901.93	0	17082	0	30169.07
7449.13	236288	8	70072.57	18090.96	0	4003.25	0	12017.54
7449.20	160888	9	304465.61	74068.93	0	13344.63	19173.7	10930.38
7449.27	214744	8	98616.12	26949.02	0	8342.8	0	7576.01

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7449.33	197198	8	132125.67	35030.39	0	11170.65	0	9498.63
7449.40	173301	9	340579.31	83015.09	0	17824.92	14950.7	2781.89
7449.46	172660	9	295434.83	75229.37	0	16963.42	13012.69	5259.69
7449.53	197068	8	172967.37	44113.67	0	10114.19	0	6792.86
7449.59	232560	8	78485.82	21100.68	0	5443.21	0	7098.54
7449.66	201972	8	139230.2	39205.53	0	7356.82	0	6059.22
7449.72	178913	9	237056.03	59420.54	0	14300.99	8694.29	7686.71
7449.79	204963	8	127443.52	33707.79	0	6316.67	0	4700.92
7449.86	170674	9	225251.91	53849.49	0	16470.77	8139.41	9355.01
7449.92	216279	8	85062.52	21982.72	0	4677.43	0	3647.85
7449.99	215148	8	98606.42	24813.32	0	7299.55	0	7665.62
7450.05	218043	8	84943.95	23232.26	0	4867.9	0	3927.55
7450.12	213812	8	122997.02	33441.99	0	5474.24	0	3701.93
7450.18	207701	8	142866.1	37218.76	0	10130.85	0	7237.51
7450.25	233191	8	78947.39	19422.9	0	4926.68	0	4042.12
7450.31	218845	8	77062.53	19878.3	0	5838.89	0	7246.71
7450.38	183218	8	196583.23	48502.26	0	18493.77	0	6751.78
7450.45	182249	8	231396.52	56112.45	0	16727.22	0	6167.94
7450.51	206715	8	142523.8	34576.5	0	7849.32	0	4114.16
7450.58	190640	8	156861.26	39160.42	0	8225.51	0	3703.73
7450.64	190098	8	159375.45	41452	0	7830.78	0	3466.23
7450.71	233946	8	93351.73	21588.87	0	5624.41	0	3980.65
7450.77	205947	8	129195.25	30929.17	0	5914.92	0	2741.87
7450.84	174777	9	311283.56	65613.59	0	18817.38	0	1995.52
7450.91	255251	8	82910.82	21742.41	0	3725.02	0	796.46
7450.97	249644	8	77953.75	20655.68	0	2343.77	0	0
7451.04	243829	8	55153.76	12597.22	0	2616.89	0	936.95
7451.10	81674	9	269848.86	63476.7	0	14477.23	0	0
7451.17	200915	8	163861.62	42554.11	0	6700.2	0	3261.28
7451.23	174319	9	223095.33	51140.05	0	11611.94	0	5912.76
7451.30	203195	8	126828.16	30312.49	0	7427.57	0	6331.51
7451.36	175768	9	209178.26	50612.9	0	13325.91	6774.1	10118.27
7451.43	194837	8	124093.17	29830.54	0	7751.54	0	7975.15

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7451.50	205807	8	115814.95	28052.03	0	8349.99	0	11723.67
7451.56	225623	8	84389.54	21520.42	0	5434.93	0	7155.64
7451.63	219805	8	85267.94	19922.23	0	6783.1	0	10167.11
7451.69	156633	9	168006.32	39209.54	0	10266.08	0	8406.38
7451.76	187391	8	245729.2	55941.76	0	13456.63	0	5985.11
7451.82	224286	8	92626.95	23329.49	0	5262.67	0	3465.49
7451.89	208009	8	94229.43	25363.44	0	5448.79	0	5868.58
7451.96	189204	8	116388.25	31218.21	0	5312.13	0	3791.89
7452.02	163333	9	184428.32	47281.52	0	10497.38	6061.13	4427.27
7452.09	157070	9	316706.52	72692.17	0	14724.98	12961.15	1946.88
7452.15	239744	8	66317.97	17913	0	4189.5	0	4840.25
7452.22	158193	9	310421.56	67166.15	0	16199.15	11747.91	2165.32
7452.28	152835	9	312414.24	64846.24	0	16355.21	10296.59	2172.47
7452.35	166375	9	204012.47	45255.72	0	11306.4	0	3183.4
7452.41	171250	9	262597.54	61525.56	0	10337.81	0	2187.6
7452.48	162478	9	329733.01	71803.9	0	17142.33	0	3782.94
7452.55	158491	9	271402.97	61921.59	0	14467.86	0	4601.46
7452.61	232578	8	57483.5	14906.73	0	6347.7	0	11547.13
7452.68	192125	8	116426.67	30689.56	0	11500.83	0	9806.4
7452.74	196685	8	105874.72	26153.7	0	5954.9	0	5658.67
7452.81	174186	9	215947.01	50792.33	0	12822.41	0	5005.89
7452.87	233967	8	72203.09	18747.87	0	3977.56	0	3266.18
7452.94	259487	8	68409.71	16718.46	0	5219.06	0	4170.56
7453.01	169326	9	343943.06	75751.33	0	22309.87	0	3587.51
7453.07	187325	8	216837.83	55835.49	0	15595.59	0	5367.11
7453.14	80278	9	189118.74	47699.84	0	11674.48	0	5299.04
7453.20	183311	8	155001.02	36921.04	0	7512.55	0	2641.34
7453.27	175432	9	154265.82	34631.68	0	8599.03	0	3671.61
7453.33	142420	9	232855.44	52065.96	0	10133.74	12015.1	2184.04
7453.40	150409	9	298740.27	65829.35	0	16101.16	9783.42	2658.73
7453.46	134299	9	296880.39	66010.43	0	18460.43	0	4595.45
7453.53	165831	9	328902.46	68129.91	0	21255.4	0	7499.22
7453.60	157350	9	244439.33	59548.6	0	9982.1	11577.81	3782.12

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7453.66	157706	9	327381.87	74953.57	0	16295.29	15213.55	2293.59
7453.73	216884	8	87095.03	23004.83	0	4036.9	0	3248.13
7453.79	182624	8	190021.78	50127.78	0	9183.99	0	3254.64
7453.86	163164	9	302923.5	73038.77	0	19581.33	15405.69	5891.87
7453.92	226341	8	97112.51	24012.48	0	6441.97	0	6750.08
7453.99	259182	8	56892.84	15925.81	0	4358.1	0	4256.26
7454.06	248408	8	87835.87	24953.18	0	7721.71	0	7632.89
7454.12	262622	8	33407.42	8233.47	0	3918.11	0	2366.21
7454.19	275708	7	59115.03	17622.67	0	3931.9	0	2767.73
7454.25	237367	8	77752.27	19186.07	0	4532.97	0	8292.99
7454.32	234048	8	74241.01	20865	0	11564.89	0	12319.82
7454.38	212750	8	64054.49	17233.32	0	10482.43	0	13811.43
7454.45	221477	8	131908.88	38907.43	0	17511.05	0	21904
7454.51	240127	8	93833.52	25692.46	0	8102.46	0	9556.87
7454.58	207750	8	98999.75	25028.57	0	2806.3	0	10234.33
7454.65	219414	8	130531.78	33345.95	0	5041.83	0	107792.37
7454.71	180455	8	30361.2	4797.05	0	4916.26	0	66559.19
7454.78	149624	9	41764.5	7699.3	0	1853.78	0	55317.51
7454.84	157367	9	29350.21	3220.53	0	1546.25	0	60299.61
7454.91	172788	9	44595.64	10468.83	0	787	0	54814.85
7454.97	194175	8	119521.1	28851.47	0	847.49	0	96126.38
7455.04	234541	8	49322.41	9090.74	0	1230.76	0	39100.08
7455.10	193666	8	164444.16	33481.09	0	2173.01	0	128509.82
7455.17	195566	8	135200.61	38650.2	0	4410.12	0	114661.3
7455.24	252674	8	116937.35	31740.72	0	6196.37	0	108019.93
7455.30	219956	8	65121.73	16176.41	0	2157.63	0	107143.45
7455.37	191575	8	97752.22	21023.9	0	3563.8	0	115838.5
7455.43	195416	8	55686.13	17921.18	0	2049.95	0	104338.79
7455.50	239022	8	61674.39	18470.37	0	3029.97	0	103567.36
7455.56	317691	7	54956.35	14620.09	0	3548.18	0	288783.18
7455.63	324870	7	41998.49	11140.3	0	2522.64	0	315800.93
7455.70	291796	7	81327.57	24462.36	0	5579.53	0	285070.67
7455.76	300163	7	104717.08	33007.28	0	6946.74	0	329019.83

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7455.83	297591	7	50854.26	15891.1	0	4206.24	0	259424.42
7455.89	186074	8	219128	72244.52	0	36766.22	25050.26	24404.74
7455.96	303014	7	36710.69	12299.96	0	3800.73	0	2469.33
7456.02	168233	9	255155.19	84402.56	0	12272.19	34319.05	3716.74
7456.09	179948	8	181591.74	59807.03	0	11701.82	23748.98	6678.77
7456.15	208448	8	139162.49	42811.54	0	19148.43	0	16771.13
7456.22	280690	7	51178.13	18245.39	0	6415.6	0	10466.04
7456.29	206612	8	143324.62	43660.75	0	8552.41	10406.75	5187.44
7456.35	175778	9	247230.08	75007.21	0	13028.53	30708.89	2899.32
7456.42	214585	8	83946.78	28090.57	0	8321.32	0	10898.35
7456.48	168004	9	315590.29	85552.05	0	22468.02	23600.79	8947.77
7456.55	189038	8	145870.8	43189.88	0	18784.68	0	17092.88
7456.61	234629	8	100111.92	31550.25	0	11054.82	0	14643.66
7456.68	207877	8	105448.23	32632.24	0	13781.42	0	33508.63
7456.75	128757	9	112682.67	27666.31	0	11161.16	13002.02	10434.41
7456.81	129530	9	105693.43	26403.57	0	9882.06	10369.19	9931.06
7456.88	178226	8	105479.37	30847.17	0	13276.21	0	14952.62
7456.94	221375	8	44018.7	10308.29	0	6016.56	0	11666.04
7457.01	207021	8	65828.75	16980.28	0	11355.62	0	17404.8
7457.07	169687	9	57590.58	14887.91	0	4272.74	0	6569.29
7457.14	214375	8	39874.03	11441.03	0	2316.8	0	567.79
7457.20	121398	9	186738.02	54190.21	0	11096.76	0	4130.49
7457.27	176205	9	284541.11	76477.28	0	21838.14	18705.21	5672.78
7457.34	168315	9	256529.06	64119.23	0	20427.62	18090.18	8268.85
7457.40	200087	8	105547.45	29480.78	0	7410.78	0	7813.27
7457.47	176557	9	208873	53275.94	0	14694.3	17080.26	7121.04
7457.53	187785	8	135453.49	37082.96	0	9065.76	6456.82	10738.26
7457.60	165199	9	307550.98	79010.93	0	17943.5	20010.59	4220.52
7457.66	179640	8	280719.72	76909.95	0	18007.57	18705.53	5745.16
7457.73	179406	9	252223.81	65382.15	0	16352.95	18214.18	9022.18
7457.80	182719	8	226440.5	66086.71	0	16740.98	18359.65	10498.78
7457.86	169085	9	240591.47	67100.07	0	16994.1	19559.15	8659.25
7457.93	226927	8	97026.1	27460.95	0	8966.88	0	11828.94

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7457.99	196554	8	153938.51	42117.57	0	11530.11	6917.48	10576.99
7458.06	176824	9	211807.27	54516.52	0	15387.11	16958.61	11053.98
7458.12	182244	8	168839.92	46356.68	0	11784.75	14783.37	7902.08
7458.19	205804	8	149046.72	41374.7	0	10546.69	0	6737.58
7458.25	261503	8	63855.69	20715.21	0	4891.87	0	5665.54
7458.32	204897	8	132631.56	41098.4	0	11719.73	6817.84	10664.9
7458.39	191456	8	128767.07	40474.48	0	11336.43	8938.95	11615.2
7458.45	197284	8	118900.19	35684.23	0	10430.99	6827.1	10679.05
7458.52	182063	8	186976.08	58959	0	7437.99	11753.48	2550.44
7458.58	245912	8	73199	21408.26	0	6721.35	0	8846.65
7458.65	251245	8	66283.2	19865.89	0	6206.2	0	7372.73
7458.71	174433	9	245224.68	67819.35	0	19428.75	22516.45	8310.72
7458.78	194230	8	147797.29	43652.63	0	13136.17	7429.61	18376.4
7458.85	254246	8	85529.88	25424.98	0	8492.5	0	7910.26
7458.91	232726	8	84057.18	25736.86	0	10438.91	0	13495.09
7458.98	250529	8	83017.34	27048.74	0	10432.21	0	14419.45
7459.04	220523	8	166769.78	48162.57	0	19281.12	6715.38	10811.79
7459.11	187700	8	300906.7	85380.38	0	27609.04	22605.28	7443.45
7459.17	200905	8	145492.92	43013.43	0	11145.97	12007.15	6754.45
7459.24	112820	9	256286.03	83206.27	0	16007.61	0	3944
7459.30	176080	9	243572.2	73777.37	0	14630.83	26102.65	4211.61
7459.37	190638	8	127216.88	37991.64	0	9917.2	10567.75	9361.4
7459.44	173818	9	106202.37	32974.58	0	9413.64	0	11620.27
7459.50	205407	8	134437.18	42129.33	0	10967.8	9940.27	11057.23
7459.57	175008	9	255721.67	76403.49	0	18772.08	26796.31	10202.52
7459.63	181969	8	216761.59	65859.8	0	14468.54	23007.78	9687.12
7459.70	229069	8	81435.67	26126.6	0	7530.51	0	10005.94
7459.76	191592	8	173030.75	53077.71	0	14914.77	17539.54	9769.52
7459.83	171624	9	210467.03	65997.95	0	14281.06	21470.2	8133.25
7459.90	171071	9	274131.68	78304.15	0	16527.98	30007.15	4150.95
7459.96	188227	8	163007.48	50112.27	0	16234.4	14769.8	11114.22
7460.03	201296	8	122250.68	38650.44	0	10278.77	0	11092.83
7460.09	183526	8	155627.1	46965.72	0	13508.56	15590.59	11034.76

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7460.16	200355	8	113819.27	34504.4	0	14076.29	0	16493.87
7460.22	195052	8	220266.82	67476	0	13777.29	22913.92	4967.14
7460.29	223675	8	101462.13	31068.64	0	8451.37	0	8468.55
7460.35	166961	9	291292.94	85973.51	0	18701.34	31969.51	1303.32
7460.42	169576	9	190808.03	59398.6	0	12690.3	21723.41	6070.45
7460.49	153577	9	239239.27	69390.59	0	17852.54	24021.54	3214.1
7460.55	202388	8	183045.72	55328.98	0	13815.53	11566.77	6392.32
7460.62	215470	8	163128.72	46437.26	0	22654.08	0	20021.65
7460.68	230638	8	121793.99	35773.03	0	22991.91	0	28062.75
7460.75	219162	8	103236.51	33680.13	0	14388.87	0	18872.75
7460.81	205864	8	123656.64	36622.1	0	14596.95	10122.24	14864.09
7460.88	191426	8	224711.36	65328.79	0	19948.38	20426.87	10894.57
7460.94	285053	7	37773.11	12253.13	0	4500.78	0	6505.92
7461.01	233253	8	112028.55	36242.25	0	9110.77	0	12444.34
7461.08	297150	7	39763.63	11088.7	0	6921.28	0	7929.34
7461.14	223568	8	113587.87	32830.95	0	8859.56	0	4012.06
7461.21	141830	9	321882.51	91987.98	0	36526.27	11131.34	2231.23
7461.27	178373	8	222439.99	65381.54	0	18458.91	26801.47	5368.89
7461.34	164578	9	233887.23	70555.94	0	13924.26	32325.86	4114.42
7461.40	165000	9	268469.98	80553.38	0	16702.52	33567.94	5173.43
7461.47	189331	8	290853.13	86170.72	0	26368.19	29297.12	4407.77
7461.54	181543	9	282055.46	82659.23	0	21435.61	29523.74	7290.44
7461.60	222308	8	96414.36	30387.1	0	8700.67	0	12070.85
7461.67	174752	9	285395.8	81081.77	0	19046.77	28300.78	4893.02
7461.73	189744	8	190074.56	56946.2	0	10914.97	23083.2	6114.66
7461.80	252181	8	78392.1	26380.79	0	5258.92	0	4783.48
7461.86	191725	8	203699.96	62747.35	0	17990.09	11707.87	41316.47
7461.93	225949	8	98679.74	30675.57	0	9696.41	0	17934.35
7461.99	233875	8	68070.19	21742.73	0	6481.87	0	13383.59
7462.06	189169	8	165323.2	49646.45	0	11472.22	18702.81	9432.81
7462.13	193759	8	251171.39	74592.02	0	25730.8	19009.36	8867.26
7462.19	237221	8	114377.36	38550.41	0	14192.64	0	18733.52
7462.26	266367	8	50476.68	17343.98	0	4413.48	0	53427.68

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7462.32	216404	8	61365.62	17546.07	0	5389.15	0	9996.07
7462.39	164156	9	115128.52	32335.72	0	8451.82	7955.19	11621.81
7462.45	181263	8	61428.21	18436.06	0	3917.53	0	5424.25
7462.52	170128	9	82741.62	25093.01	0	5360.62	0	4771.88
7462.59	266173	8	68574.75	21519.1	0	4407.73	0	4110.85
7462.65	170569	9	280777.3	75962.45	0	11918.43	22951.07	5952.64
7462.72	206320	8	53528.67	14001.43	0	4984.73	0	5808.03
7462.78	182362	8	67908.81	19856.72	0	4907.19	0	9386.71
7462.85	243024	8	38419.48	9420.86	0	2307.57	0	3016.96
7462.91	154893	9	216173.74	61172.4	0	8052.8	22182.79	4144.95
7462.98	163500	9	265642.43	74840.34	0	9812.94	25967.38	2878.54
7463.04	212611	8	89772.92	26220.68	0	5180.92	0	6603.61
7463.11	173770	9	275698.7	77267.49	0	10986.4	25301.73	5968.44
7463.18	225638	8	81095.93	23237.65	0	6576.32	0	11982.16
7463.24	112805	9	319640.22	80522.15	0	12968.51	10496.88	5491.55
7463.31	235450	8	68015.09	19559.24	0	3610.47	0	2884.14
7463.37	261033	8	39715.62	12418.68	0	2508.71	0	1827.33
7463.44	190504	8	83721.44	26412.91	0	4069.03	0	7958.52
7463.50	136849	9	236905.4	67318.15	0	9579.14	27112.11	2018.36
7463.57	281191	7	50828.04	16296.87	0	3420.63	0	2583.19
7463.64	293794	7	30659.37	6376.61	0	4269.93	0	4264.11
7463.70	178630	9	279283.34	76665.55	0	14802.16	23545.87	27372.55
7463.77	175278	9	238184.3	70305.9	0	12954.21	24725.69	14396
7463.83	201604	8	102803.57	31456.85	0	5194.92	7061.84	9425.35
7463.90	152362	9	213684.43	64167.07	0	12346.39	15407.73	6586.64
7463.96	176252	9	202565.68	56509.4	0	10188.19	16673.76	26145.83
7464.03	246423	8	60412.42	14659.01	0	2495.59	0	29581.1
7464.09	222660	8	62519.1	18063.64	0	4774.76	0	13254.74
7464.16	229486	8	61417.26	21576.09	0	2933.26	0	4917.09
7464.23	226674	8	48901.74	14607.45	0	4123.75	0	9995.91
7464.29	214002	8	43333.79	11969.7	0	4733.21	0	11319.25
7464.36	277425	7	38396.97	12109.02	0	1833.35	0	6356.28
7464.42	250078	8	74774.88	22610.74	0	3701.62	0	8929.53

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7464.49	191907	8	136762.94	42704.94	0	6548.7	11159.71	6617.89
7464.55	276481	7	24683.35	6478.56	0	2725.78	0	2924.66
7464.62	157793	9	218823.68	62036.93	0	11163.39	25789.93	11746.09
7464.69	245104	8	84720.63	27616.79	0	4480.16	0	5965.87
7464.75	277575	7	51684.61	16650.82	0	3520.73	0	3367.49
7464.82	188425	8	110427.27	33346.43	0	8810.14	0	10523.48
7464.88	218548	8	50510.6	12451.67	0	4356.96	0	8832.07
7464.95	249917	8	26340.51	5471.56	0	3552.95	0	4412.84
7465.01	261905	8	29227.27	6680.2	0	3029.53	0	2783.97
7465.08	154179	9	241106.99	67344.33	0	16440.62	27060	18074.25
7465.14	150400	9	226055.26	64255.67	0	12109.1	28822.76	13226.29
7465.21	133131	9	222213.88	63162.7	0	13133.47	26640.73	6525.87
7465.28	187988	8	251622.44	75732.5	0	13076.92	23677.4	4637.96
7465.34	193991	8	226586.67	66160.52	0	15609.15	16557.59	33142.71
7465.41	200637	8	131644.06	38847.45	0	9702.05	0	16521.78
7465.47	176316	9	173794.12	53186.57	0	10887.72	19882.19	3652.46
7465.54	166435	9	149677.44	45973.67	0	7280.38	14224.13	4635.57
7465.60	163282	9	270714.65	80522.11	0	18319.05	27003.12	5338.83
7465.67	159254	9	227332.53	63654.06	0	15819.12	9910.78	10220.6
7465.73	212238	8	110614.6	33513.24	0	8978.84	0	13668.13
7465.80	262494	8	45351.65	14283.61	0	2812.9	0	3678.18
7465.87	191668	8	153904.08	50124.6	0	7841.1	14205.02	6375.49
7465.93	237242	8	77471.76	22582.91	0	4557.05	0	4995.96
7466.00	220080	8	95314.73	28879.44	0	5867.05	0	8504.27
7466.06	189284	8	275411.81	73840.04	0	17213.4	14432.23	48797.17
7466.13	195076	8	234385.38	64079.15	0	21619.41	14103.15	43758.65
7466.19	185762	8	215467.57	61646.03	0	15149.75	16718.15	12755.11
7466.26	206377	8	102507.78	34909.01	0	6565.01	0	3045.92
7466.33	209879	8	123800.09	36959.27	0	7589.92	8466.8	5388.86
7466.39	230787	8	73522.19	22199.28	0	8182.19	0	8320.8
7466.46	213999	8	100742.65	30393.53	0	5525.31	0	8131.68
7466.52	218081	8	88751.75	29184.01	0	6530.32	0	13265.02
7466.59	253702	8	83892.11	27309.09	0	5555.56	0	5287.79

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7466.65	280861	7	34527.29	10971.88	0	3785.53	0	4751.54
7466.72	165769	9	277106.59	82094.01	0	14007.35	29853.53	28504.34
7466.78	161529	9	269399.56	73689.4	0	15492.78	23691.32	29918.52
7466.85	263869	8	33075.51	8812.76	0	2984.88	0	3349.18
7466.92	177763	8	318043.69	93932.59	0	20046.55	26686.17	5259.71
7466.98	196489	8	270493.55	77851.17	0	19338.19	16348.47	20293.93
7467.05	248472	8	100495.76	30274.04	0	5547.57	0	32090.24
7467.11	247755	8	70182.16	21803.7	0	5778.43	0	12278.37
7467.18	96924	9	54909.72	14586.06	0	5884.89	0	34984.85
7467.24	198377	8	137167.95	42078.73	0	7712.97	10580.61	32449.31
7467.31	225162	8	86750.35	25366.11	0	3949.17	0	30201.92
7467.38	173121	9	270798.79	71963.99	0	12922.46	23704.89	39719.12
7467.44	162136	9	230868.69	62267.93	0	11723.08	27765.09	33485.03
7467.51	236541	8	85328.03	23467.98	0	5280.8	0	153706.97
7467.57	195808	8	76289.01	21727.87	0	5158.5	0	14681.75
7467.64	242470	8	110048.88	28874.52	0	6519	0	122077.25
7467.70	213224	8	110603.62	35170.08	0	6543.8	0	10157.04
7467.77	194402	8	264094.29	75010.59	0	16167.56	17815.62	51746.73
7467.83	220327	8	110352.09	30996.42	0	7426.12	0	49346.84
7467.90	295690	7	51804.2	11609.74	0	6276.99	0	244387.55
7467.97	319137	7	29670.69	4911.88	0	5182.45	0	256581.18
7468.03	320969	7	29686.82	4119.47	0	3315.7	0	275643.15
7468.10	295070	7	62447.18	12079.19	0	5205.05	0	300431.01
7468.16	220183	8	144871.56	40935.39	0	11974.63	0	92222.73
7468.23	196639	8	246892.84	74970.63	0	12049.52	14942.4	14313.74
7468.29	195590	8	181022.69	55026.03	0	9730.78	9254.2	5495.4
7468.36	198481	8	212940.13	63091	0	12209.26	8216.72	21514.68
7468.43	274900	8	36949.69	12563.02	0	4417.31	0	5923.98
7468.49	233718	8	90873.16	23031.67	0	13835.94	0	34060.04
7468.56	174191	9	247596.37	67239.67	0	16680.11	21641	8976.58
7468.62	187642	8	160609.18	46484.79	0	9796.4	13015.41	5079.94
7468.69	207206	8	110619.28	32431.71	0	6652.31	0	6766.89
7468.75	235528	8	71653.79	20057.1	0	3688.62	0	2483.44

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7468.82	197063	8	140622	40609.28	0	8728.79	0	6988.93
7468.88	246566	8	89513.98	26542.65	0	6907	0	14710.01
7468.95	210814	8	183822.84	47618.77	0	13187.3	0	29225.25
7469.02	198871	8	33997.8	7744.33	0	3806.05	0	5302.33
7469.08	147532	9	46793.52	11471.15	0	2570.48	0	22101.31
7469.15	147047	9	30857.67	6763.32	0	3999.92	0	13824.52
7469.21	153408	9	194353.71	57997.45	0	10779.55	0	57090.95
7469.28	252618	8	64365.5	19855.52	0	3450.4	0	3028.89
7469.34	174208	9	103121.07	31056.53	0	4822.72	6707.21	4247.72
7469.41	291436	7	41638.61	11285.79	0	3506.53	0	2718.78
7469.48	259352	8	73046.02	22011.41	0	5341.68	0	3592.88
7469.54	197132	8	200223.41	51031.51	0	15899.98	7748.16	22723.71
7469.61	222624	8	127367.12	35497.98	0	12881.63	0	16568.6
7469.67	186111	8	307113.79	76744.04	0	24300.89	15639.04	31491.65
7469.74	264230	8	76291.97	22316.81	0	9142.34	0	23638.65
7469.80	188216	8	224037.22	67531.69	0	15302.57	18139.33	8192.06
7469.87	177026	8	291993.93	79188.35	0	18153.63	28283.23	8678.56
7469.93	299568	7	31370.36	8197.89	0	4089.07	0	3339.83
7470.00	240322	8	90438.14	26359.05	0	7926.21	0	11411.58
7470.07	190162	8	152148.67	41875.41	0	11575.22	0	36949.55
7470.13	196929	8	186836.57	51052.22	0	22890.3	11072.05	52245.59
7470.20	174067	9	247785.6	67362.2	0	25292.53	19119.37	23733.27
7470.26	167869	9	247580.24	70481.72	0	14043.13	24386.79	3195.57
7470.33	165966	9	234520.56	67520.87	0	22668.84	25274.8	9838.51
7470.39	295107	7	40985.25	12118.39	0	4822.22	0	27550.44
7470.46	241616	8	86301.13	25730.56	0	6167.73	0	5424.93
7470.52	192446	8	169238.56	49303.13	0	12860.54	10507.03	8268.72
7470.59	195699	8	242972.28	61278.73	0	15950.09	13347.86	83733.96
7470.66	186931	8	151996.9	43782.96	0	9368.22	0	49063.44
7470.72	244909	8	80864.15	26042.03	0	5532.04	0	4847.96
7470.79	229841	8	94001.82	28180.01	0	6055.72	0	5252.38
7470.85	202146	8	181453.64	50931.45	0	15323.09	11816.79	7298.24
7470.92	254383	8	82831.6	26359.97	0	9468.42	0	7767.29

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7470.98	259731	8	75369.18	20763.73	0	6128.23	0	24902.25
7471.05	277685	7	82157.59	23225.52	0	10867.99	0	154545.27
7471.12	289536	7	33742.58	8579.37	0	5265.33	0	16558.68
7471.18	300517	7	39477.01	11517.6	0	6816.15	0	13296
7471.25	139098	9	286118.53	84031.04	0	13969.91	10768.54	9331.7
7471.31	172890	9	278408.77	70853.53	0	15089.47	19787.04	21448.1
7471.38	175222	9	238799.05	63635.29	0	16832.69	14586.19	19213.82
7471.44	118868	9	162795.18	38282.72	0	11660.29	16227.53	8628.79
7471.51	227195	8	118454.46	30300.48	0	8008.53	0	75173.43
7471.57	257417	8	143386.41	29370.01	0	7491.16	0	236739.54
7471.64	293872	7	79148.43	17332.65	0	5025.66	0	262866.97
7471.71	181499	8	244159.02	68467.83	0	11866.31	18267.56	23620.02
7471.77	249245	8	77377.83	23416.75	0	4787.67	0	25451.39
7471.84	188547	8	295645.25	85884.12	0	14646.22	21914.83	49792.75
7471.90	152215	9	260466.09	74273.37	0	16623.74	17204.79	11768.84
7471.97	259260	8	63728.91	16768.55	0	6016.77	0	16921.85
7472.03	264032	8	51905.59	13052.39	0	6392.21	0	19566.37
7472.10	233011	8	79675.25	22669.8	0	11191.54	0	17499.8
7472.17	173127	9	229360.62	66084.05	0	23385.4	23519.88	4929.62
7472.23	154963	9	79269.33	25216.19	0	5350.94	0	2879.43
7472.30	234438	8	73061.23	21804.15	0	5482.01	0	3890.17
7472.36	166202	9	192490.22	56421.93	0	12268.18	22081.51	3215.83
7472.43	217174	8	72726.35	18921.93	0	5580.75	0	9443.54
7472.49	176672	8	160395.33	48942.89	0	11903.25	16642.42	6200.89
7472.56	197316	8	172182.82	51975.02	0	11865.94	15499.57	12802.83
7472.62	252714	8	65271.2	20472.81	0	5535.87	0	7587.95
7472.69	234638	8	75977.59	23628.84	0	6505.1	0	5921.29
7472.76	193160	8	87934.57	26894.76	0	5878.87	0	4025.35
7472.82	193538	8	242605.21	63526.29	0	17047.04	16661.45	39967.19
7472.89	285426	7	46255.26	14158.22	0	4835.23	0	6059.02
7472.95	179378	8	258383.85	75694.39	0	17188.27	23244.9	9282.57
7473.02	227040	8	80186.85	24681.69	0	5816.79	0	4858.32
7473.08	230385	8	89636.89	29257.12	0	5250.03	0	1955.6

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7473.15	189513	8	175554.1	52007.76	0	11947.54	16336.71	1706.3
7473.22	124250	9	310900.46	87101.13	0	24812.37	0	7559.2
7473.28	260366	8	66553.45	20132.06	0	6798.85	0	20024.2
7473.35	199788	8	125969.84	35542.18	0	9044.12	0	3684.87
7473.41	186240	8	130695.68	35744.28	0	7764.48	16334.89	3393.93
7473.48	183589	8	174337.22	51729.01	0	10067.23	15059.59	1525.91
7473.54	184194	8	243641.35	68541.5	0	18657.82	19188.24	2405.21
7473.61	280533	7	50001.16	15924.6	0	5532.6	0	4454.45
7473.67	190415	8	210509.37	58512.47	0	15918.38	17815.14	4768.07
7473.74	187271	8	224764.72	67833.68	0	20189.93	18076.11	2046.19
7473.81	264921	8	65165.47	21056.17	0	5859.97	0	2628.92
7473.87	193083	8	168755.82	51119.54	0	10801.74	17464.3	2230.44
7473.94	262711	8	64587.99	19912.25	0	4140.43	0	2216.33
7474.00	173176	9	302975.56	82728.75	0	22808.6	25354.54	16872.51
7474.07	195158	8	169455.07	49264.91	0	12922	13000.38	10009.88
7474.13	182733	8	212329.47	64938.25	0	17750.44	18510.3	3048.34
7474.20	190792	8	135908.52	41436.22	0	7687.2	0	6537.96
7474.27	197278	8	176232.96	55729.14	0	10003.07	12849.56	5451.17
7474.33	168469	9	300612.09	86142.8	0	17645.74	26638.79	3175.96
7474.40	251424	8	66220.03	20930.7	0	4511.86	0	2672.67
7474.46	212085	8	131189.93	41918.4	0	7628.5	0	2062.24
7474.53	310903	7	21803.23	4991.98	0	4527.08	0	2114.77
7474.59	201037	8	177706.6	56367.17	0	11116.97	13263.62	3332.38
7474.66	175618	8	240683.2	75282.4	0	11026.46	27330.64	2080.03
7474.72	251172	8	78979.22	23984.39	0	4102.7	0	6229.43
7474.79	221628	8	104638.02	33642.48	0	6037.86	0	3082.93
7474.86	166150	9	305442.51	88914.21	0	14882.17	29891.5	5243.24
7474.92	236109	8	79461.41	25995.61	0	4395.27	0	4507.12
7474.99	191362	8	153762.95	49185.76	0	9499.68	15143.56	5569.71
7475.05	160513	9	295837.19	85604	0	17672.42	31779.61	3491.87
7475.12	166514	9	201980.73	60656.19	0	9958.53	17827.28	10263.05
7475.18	233963	8	119519.44	31936.1	0	10321.53	0	65955.68
7475.25	57195	10	376653.12	101394.8	0	28511.17	0	121010.26

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7475.31	203799	8	268870.87	72920.8	0	19813.06	14092.12	79522.4
7475.38	170629	9	273239.89	78802.12	866.76	20858.87	30982.22	7784.53
7475.45	114605	9	340928.62	96612.21	0	24862.66	18350.65	24450.35
7475.51	178268	8	283631.43	87270.27	0	24646.14	26931.13	7823.9
7475.58	172019	9	251410.96	73192.78	0	19717.17	23290.43	4419.91
7475.64	183171	8	199402.07	56884.8	0	13107.89	17065.86	17866.88
7475.71	205587	8	267561.1	73259	0	18275.02	16778.35	93910.87
7475.77	261553	8	62955.7	17629.51	0	7149.19	0	47099.94
7475.84	225342	8	145573.99	42478.55	0	11810.69	0	97569.36
7475.91	221474	8	247276.25	75100.73	0	11857.3	16878.58	122672.79
7475.97	272999	7	82769.89	31447.23	0	203770.18	0	0
7476.04	141849	9	292220.55	94459.73	0	16740.26	26304.25	10729.34
7476.10	179327	8	224315.57	72034.8	0	13042.74	23862.31	4058.93
7476.17	169316	9	303367.83	80473.4	0	23257.52	24470.12	10826.73
7476.23	190483	8	218098.5	63812.39	0	18099.31	17791.76	35613.25
7476.30	217603	8	144399.76	45582.56	0	13581.53	6971.56	28278.46
7476.36	186288	8	205911.82	63251.56	0	11878.11	21697.13	13430.23
7476.43	185511	8	210583.37	65045.7	0	14356.6	23418.06	24967.08
7476.50	162804	9	277800.78	80026	0	14655.06	32757.33	10174.62
7476.56	205068	8	136731.51	43333.88	0	9830.64	12308.09	7989.05
7476.63	166052	9	320979.01	91590.64	0	20195.17	29671.55	1014.79
7476.69	167967	9	317330.31	87085.88	0	21503.08	31958.43	2284.67
7476.76	195936	8	128150.76	38667.43	0	11509.73	9923.65	11790.55
7476.82	156481	9	221685.71	66328.99	0	11439.75	28494.6	4141.21
7476.89	162228	9	220000.96	66539.22	0	10899.18	24304.01	3100.1
7476.96	206764	8	210085.05	64605.44	0	25572.88	12085.32	10480.46
7477.02	195082	8	272641.36	77073.22	0	32048.54	15905.36	25739.58
7477.09	196168	8	101334.23	30789.15	0	12833	0	15179.34
7477.15	215056	8	166999.16	50181.72	0	20671.23	0	11946.04
7477.22	225201	8	127505.67	39183.45	0	10605.75	0	4681.4
7477.28	267646	18	327453.32	93831.6	0	20981.13	15141.51	3399.27
7477.35	387579	17	268154	74651.57	0	23339.51	21604.68	26514.72
7477.41	507582	15	73201.65	23620.27	0	9570.4	0	12291.94

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7477.48	407802	16	157316.25	46714.27	0	20982.93	7794.66	20234.17
7477.55	414729	16	170552.72	52035.83	0	14475.1	6378.16	6434.63
7477.61	328666	17	313138.72	86876.02	0	14109.2	30715.86	0
7477.68	343761	17	241103.44	69874.03	0	12705.36	23092.4	2258.33
7477.74	321716	17	304497.06	85102.04	0	15244.8	29887.6	1266.2
7477.81	315071	17	291839.41	86416.81	0	12340.85	31758.54	1551.6
7477.87	328417	17	218644.45	66934.58	0	9463.2	24854.51	3430.87
7477.94	361982	17	178490.99	54932.23	0	9466.36	20752.33	4551.93
7478.01	326084	17	324184.01	89042.95	0	17603.14	31746.79	2828.97
7478.07	343654	17	293256.47	84317.98	0	22837.44	26801.88	3618.66
7478.14	369581	17	205040	62946.18	0	19358.36	19763.9	7387.56
7478.20	359931	17	174073.38	53048.96	0	15215.91	16504.28	8219.64
7478.27	311324	17	296352.17	84419.41	0	14603.94	29082.11	1553.82
7478.33	435948	16	96776.49	30103.02	0	8456.33	0	5985.38
7478.40	318878	17	268558.43	77849.76	0	14355.08	29736.27	1594.95
7478.46	307283	17	291392.61	85594.26	0	13721.98	32155.42	1230.42
7478.53	411832	16	123642.85	38648.71	0	5942.18	8885.75	4191.3
7478.60	444659	16	84169.97	26324.37	0	3763.88	0	2462.66
7478.66	593893	14	39057.72	11375.52	0	8274.38	0	5417.2
7478.73	416514	16	146943.27	42683.91	0	20351.28	0	18652.44
7478.79	329400	17	305088.52	83383.76	0	19158.49	28460.09	19212.43
7478.86	350933	17	271628.65	75384.65	0	20491.79	22091.33	30914.07
7478.92	376795	17	41798.25	10439.18	0	4127.74	0	4091.26
7478.99	170630	19	73265.2	20625.48	0	4846.87	9169.03	4279.92
7479.06	291019	18	44020.18	10359.26	0	6080.9	0	71544.4
7479.12	479066	16	10034.58	1380.85	0	2635.78	0	1588.14
7479.19	506923	15	13823.77	2825.89	0	2857.66	0	3948.18
7479.25	326543	17	257551.15	76808.45	0	14130.3	20191.29	5125.83
7479.32	333204	17	266872.05	74170.71	0	14288.36	25115.85	6892.79
7479.38	454988	16	75104.06	21910.62	0	6043.94	0	7698.32
7479.45	318367	17	268647.09	74229.07	0	14317.23	25135.15	4823.09
7479.51	342110	17	165874.73	47673	0	8912.28	14799.38	3374.41
7479.58	311033	17	282712.51	75368.51	0	18537.43	24253.8	6405.32

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7479.65	381084	17	124538.34	36674.84	0	6559.65	5700.23	4133.33
7479.71	299892	17	289711.38	77270.11	0	13043.03	26355.26	1942.83
7479.78	433611	16	83944.16	23396.28	0	4947.52	0	4963.17
7479.84	482518	16	75690.25	22503.37	0	5065.44	0	3438.3
7479.91	298103	17	255946.41	71781.84	0	10863.38	20599.19	1662.35
7479.97	317591	17	175662.76	49035.42	0	7247.08	16801.89	4192.06
7480.04	351449	17	111046.84	28972.4	0	5545.14	6418.99	4537.99
7480.10	342546	17	140572.91	38888.66	0	5589.25	9379.62	3402.93
7480.17	290309	18	141575.5	41225.72	0	5495.42	10396.23	3516.24
7480.24	446032	16	46342.37	14066.78	0	2466.29	0	1880.48
7480.30	374354	17	157804.41	44453.9	0	6058.54	10035.88	4093.77
7480.37	261238	18	236063.9	63288.61	0	11790.04	22824.02	5002.84
7480.43	496983	15	45421.25	11652.23	0	3420.16	0	2495.21
7480.50	343589	17	286705.54	79485.64	0	16098.1	22153.66	3130.1
7480.56	413609	16	76723.47	19999.52	0	4723.63	0	3663.07
7480.63	301714	17	172038.92	47378.29	0	11969.46	18477.47	7066.57
7480.70	259652	18	231494.64	60126.85	0	13694.97	26123.02	9834.81
7480.76	329053	17	259393.11	70603.16	0	13601.65	23524.16	20643.23
7480.83	314678	17	263283.87	71861.76	0	13083.9	20818.83	19359.33
7480.89	493359	15	110490.79	28747.31	0	4583.84	0	102854.7
7480.96	578549	14	63477.81	12650.66	0	2465.81	0	231581.21
7481.02	521460	15	109867.99	23495.49	0	4875.67	0	267188.24
7481.09	503426	15	50903.88	11362.78	0	2543	0	222685.85
7481.15	481464	16	57651.76	9423.65	0	2804.92	0	276099.49
7481.22	389612	17	50122.75	11057.41	0	2895.17	0	268671.98
7481.29	568582	15	145844.86	36419.93	0	5138.91	0	279659.71
7481.35	623398	14	43365.15	9747.58	0	2220.33	0	145333.95
7481.42	523356	15	66541.02	18146.68	0	2347.27	0	15226.85
7481.48	448908	16	80377.43	22399.35	0	2712.88	0	45222.11
7481.55	451291	16	70885.65	17402.23	0	3000.17	0	53094.9
7481.61	476819	16	133125.48	31489.49	0	4464.86	0	186744.29
7481.68	467367	16	190708.66	49841.93	0	3694.85	0	183284.51
7481.75	564298	15	149172.23	39243.14	0	4610.82	0	266849.41

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7481.81	505681	15	110080.62	28807.8	0	1344.25	0	169597.38
7481.88	497049	15	42524.87	9031.71	0	1199.49	0	133475.14
7481.94	229416	18	260007.53	68592.03	0	8588.76	0	81961.23
7482.01	423804	16	262786.58	65482.29	0	5959.52	7581.92	119676.14
7482.07	480056	16	212542.66	53418.52	0	11500.27	0	151533.5
7482.14	577072	14	67302.89	18547.86	0	5244.93	0	71683.88
7482.20	516406	15	106868.2	29957.6	0	6201.81	0	106625.36
7482.27	437063	16	154862.68	43553.14	0	9727.77	0	54017.24
7482.34	615663	14	30005.62	6773.18	0	5105.74	0	47689.39
7482.40	611492	14	42235.99	9059.19	0	6162.37	0	85911.43
7482.47	548999	15	19365.33	3506.82	0	3194.49	0	13006.1
7482.53	399464	17	53285.08	13239.19	0	4781.14	0	26157.09
7482.60	359592	17	54389.91	13819.3	0	45515.16	0	8326.66
7482.66	247992	18	140406.77	38066.01	0	8300.35	0	12126.95
7482.73	471978	16	100168.38	27986.84	0	8038.65	0	11055.77
7482.80	580204	14	45734.25	10493.59	0	5092.55	0	9996.78
7482.86	584576	14	54928.11	13678.75	0	6033.33	0	49541.2
7482.93	380759	17	32724.74	6828.01	0	4752.57	0	4177.05
7482.99	297675	18	65226.58	15967.87	0	4851.97	0	10535.5
7483.06	406598	16	26572.26	5286.26	0	4303.49	0	6005.26
7483.12	424829	16	38253.42	9213.96	0	3872.89	0	3516.25
7483.19	361005	17	94397.04	25758.37	0	6543.7	0	6333.88
7483.25	135056	19	31751.58	9497.24	0	2799.84	0	4423.58
7483.32	368287	17	169530.9	46102.09	0	9813.67	11827.98	6243.84
7483.39	465214	16	84527.73	23199.62	0	5149.47	0	10261.1
7483.45	342591	17	181474.01	46067.91	0	9976.44	9399.28	2695.44
7483.52	423066	16	71041.93	18091.32	0	4628.56	0	3327.71
7483.58	490563	16	44795.8	9306.96	0	3529.67	0	2410.28
7483.65	581831	14	40920.05	9670.92	0	3896.05	0	3155.12
7483.71	356576	17	274450.88	69754.87	0	14910.87	12482.16	24397.21
7483.78	346654	17	273929.24	70662.05	0	14448.11	16738.03	12082.96
7483.85	319942	17	316527.75	81761.05	0	15162.39	19829.45	7091.72
7483.91	349587	17	122097.69	33270.2	0	5527.95	0	5322.19

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7483.98	503290	15	77213.65	21923.28	0	4037.01	0	3877
7484.04	464733	16	81590.4	21110.23	0	5681.9	0	8445.81
7484.11	576015	15	38171.55	10069.2	0	3329.34	0	2351.36
7484.17	443222	16	114485.23	30453.99	0	6820.68	0	3444.29
7484.24	437904	16	98803.72	25642.5	0	7025.83	0	6118.46
7484.30	357665	17	200957.14	54461.88	0	8181.92	8052.23	2460.55
7484.37	545269	15	53722.99	16025.05	0	4403.39	0	3408.37
7484.44	539014	15	53822.89	13732	0	4113.8	0	2828.63
7484.50	359395	17	250455.82	65046.12	0	9684.3	13303.85	2394.82
7484.57	396423	17	157078.66	43045.53	0	5744.99	0	2279.39
7484.63	637431	14	16568.39	3269.81	0	3651.53	0	2069.28
7484.70	450927	16	86798.16	22812.71	0	4333.47	0	2543.42
7484.76	383836	17	137141.43	39053.21	0	6186.01	8711.11	2863.4
7484.83	641679	14	19161.36	4580.23	0	2794.92	0	1015.57
7484.90	449190	16	94129.34	26303.1	0	5130.15	0	3320.41
7484.96	374078	17	165928.32	45904.3	0	6974.79	0	1811.86
7485.03	389090	17	178052.29	47970.9	0	8120.7	5815.54	2733.32
7485.09	582643	14	48076.02	13283.56	0	3494.18	0	2443.43
7485.16	593849	14	36516.04	10580.68	0	3459.28	0	2355.76
7485.22	408582	16	74325.56	24098.56	0	4156.86	0	2880.05
7485.29	218676	18	410244.18	99163.23	0	17590.71	0	3000.79
7485.35	479333	16	87673.05	22453.71	0	4655.91	0	3972.22
7485.42	490072	16	53566.82	14081.46	0	3035.13	0	2230.51
7485.49	451040	16	57760.62	14116.28	0	3026	0	3431.07
7485.55	430982	16	63700.77	14837.1	0	3718.94	0	4888.05
7485.62	439163	16	60182.51	15010.58	0	3100.3	0	4276.53
7485.68	253660	18	180730.8	50412.14	0	6638.66	0	5462.03
7485.75	315172	17	232412.16	60510.8	0	7497.88	18131.32	2691.68
7485.81	309864	17	133842.22	33164.77	0	4851.62	7096.04	2611.54
7485.88	156723	19	138821.65	31346.61	0	7083.33	0	5002.49
7485.94	273306	18	85908.43	22055.87	0	3542.42	0	3523.69
7486.01	305161	17	124825.41	30573.54	0	5773.24	7802.07	5793.69
7486.08	235415	18	201336.74	48926.92	0	9007.67	17372.37	5844.55

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7486.14	250709	18	203526.29	50822.2	0	9292.38	19860.84	5194.85
7486.21	262482	18	124035.97	29101.75	0	6454.25	11678.62	7031.76
7486.27	282354	18	83712.25	19628.13	0	3944.71	0	7148.86
7486.34	247885	18	137146.34	33708.16	0	5448.94	7287.51	3442.71
7486.40	351206	17	55748.39	12980.97	0	3469.05	0	6548.22
7486.47	304232	17	65725.48	17286.89	0	3215.96	0	8472.37
7486.54	358918	17	142424.61	34625.96	0	5484.19	4577.44	9048.13
7486.60	340067	17	186197.33	45457.04	0	6026.86	8214.29	7791.46
7486.67	306578	17	209839.56	50630.77	0	8429.73	14193.89	10440.2
7486.73	286391	18	103429.14	25690.12	0	4195.58	0	9964.16
7486.80	382084	17	189573.15	49629.16	0	5765.5	6385.35	9624.08
7486.86	499716	15	73610.77	18992.62	0	5187.48	0	9350.37
7486.93	338441	17	291759.19	73928.98	0	9855.36	13735.15	9878.54
7486.99	430970	16	120005.7	30567.55	0	7824.66	0	11006.36
7487.06	497310	15	66144.37	16099.29	0	4967.51	0	16372.39
7487.13	349334	17	274289.95	71084.64	0	10320.13	15793.91	5462.68
7487.19	382872	17	181589.62	47007.33	0	8382.83	4531.9	7322.77
7487.26	131478	19	14402.86	9686.1	0	2485.53	0	2609.26
7487.32	114705	19	186467.23	50280.77	0	10629.93	0	7766.41
7487.39	325665	17	301769.51	74902.45	0	12065.19	19789.37	3174.1
7487.45	350651	17	184353.64	47338.77	0	7249.88	12377.6	4413.74
7487.52	368508	17	132826.39	36037.87	0	5319.54	0	4406.13
7487.59	328290	17	264581.42	69073.1	0	13098.9	17628.88	7484.4
7487.65	349189	17	265945.54	68307.84	0	14171.58	19338.8	6049.61
7487.72	378959	17	197470.71	52488.98	0	9718.2	8282.38	4984.22
7487.78	413485	16	152971.36	42066.49	0	8326.68	0	4078.76
7487.85	603048	14	31387.94	8073.95	0	4833.5	0	3864.8
7487.91	530833	15	67148.48	18794.2	0	5557.83	0	5067.35
7487.98	405975	16	138775.01	35066.52	0	7279.66	0	12298.61
7488.04	475231	16	90232.73	25070.9	0	6232.79	0	17500.06
7488.11	401935	16	148973.84	40216.04	0	6093.79	5104.33	5454.16
7488.18	435699	16	87787.45	23600.3	0	6793.23	0	9267.23
7488.24	351501	17	222127.05	55758.98	0	9565.51	12819	15458.57

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7488.31	323964	17	239299.27	59997.16	0	9420.5	17952.58	6966.25
7488.37	329337	17	231681.69	64226.18	0	8176.88	16333.73	8977.36
7488.44	388282	17	297874.65	78109.76	0	16801.83	11538.92	36615.79
7488.50	323990	17	354844.26	86559.41	0	13596.53	19146.64	6031.71
7488.57	356970	17	252124.22	64932.79	0	15082.98	15308.21	6749.25
7488.64	371681	17	187229.91	46739.48	0	9630.33	7656.36	8452.65
7488.70	385995	17	178601.2	47417.71	0	13176.2	8129.88	9614.68
7488.77	415457	16	140161.57	39078.07	0	9323.94	0	10359.56
7488.83	426065	16	110205.15	30011.18	0	6727.64	0	8117.24
7488.90	339711	17	235324.06	62431.32	0	9501.08	15783.18	5055.97
7488.96	556944	15	57565.83	15935.96	0	4603.94	0	4114.57
7489.03	348149	17	294715.99	75252.69	0	10304.57	18050.76	3613.58
7489.09	425609	16	138678.78	38134.87	0	8004.96	0	7141.98
7489.16	436013	16	109003.82	30988.91	0	5865.83	0	7247.64
7489.23	337776	17	283191.71	75118.89	0	12034.12	21410.31	8788.97
7489.29	389172	17	163667.45	43585.54	0	8595.67	9725.79	6527.07
7489.36	300026	17	101236.09	30254.6	0	5101.14	0	5160.02
7489.42	512200	15	69009.31	18949.15	0	5198.59	0	5118.91
7489.49	347259	17	202711.98	54742.65	0	8071.33	13317.23	10651.06
7489.55	324538	17	233962.9	59689.63	0	10753.67	19314.77	13064.62
7489.62	391032	17	89673.3	24432.23	0	4644.54	0	10767.11
7489.69	298330	17	252293.52	65031.27	0	7420.3	24206.95	10311.38
7489.75	438999	16	125641.6	35655.8	0	5252.26	0	9344.21
7489.82	340431	17	274241.97	75503.56	0	10233.55	18875.86	8518.18
7489.88	515576	15	69985.83	20713.3	0	4863.96	0	4941.29
7489.95	388707	17	148815.4	42372.91	0	8595.59	9035.12	7145.68
7490.01	427378	16	99238.21	30178.34	0	5624.48	0	5455.54
7490.08	488306	16	71170.38	20266.4	0	5997.52	0	5695.13
7490.14	402650	16	125781.49	35268.17	0	8529.4	0	7145.32
7490.21	353030	17	261106.67	69093.46	0	11831.75	16705.75	4977.85
7490.28	374535	17	153388.36	44628.88	0	8013.14	0	4637.65
7490.34	359582	17	194900.25	52415.57	0	12273.77	12092.17	7132.29
7490.41	370559	17	207377.65	54810.42	0	10302.13	11966.93	6993.37

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7490.47	363920	17	203076.13	54310.32	0	9272.99	9365.69	6563.64
7490.54	452348	16	92496.74	25526.03	0	4475.4	0	8813.68
7490.60	358677	17	253451.46	65958.44	0	10905.11	16918.6	16869.06
7490.67	477986	16	85391.83	23022.8	0	5489.81	0	19402.36
7490.73	361669	17	238732.54	62496.26	0	10125.17	18376.55	31141.68
7490.80	342714	17	228161.13	61755.32	0	8156.18	20215.25	26489.76
7490.87	519208	15	63704.83	18389.46	0	7139.05	0	11235.37
7490.93	386605	17	183643.33	50481.61	0	7745.97	8076.04	8582.01
7491.00	373050	17	196134.45	52255.99	0	12825.54	13856.51	9942.32
7491.06	428089	16	78720.85	19629.98	0	5453.82	0	8696.94
7491.13	454881	16	87048.04	23025.28	0	8731.56	0	17949.39
7491.19	636220	14	19007.37	4543.82	0	3847.95	0	2870.91
7491.26	335936	17	278626.28	72562.34	0	10678.46	19488.93	8808.52
7491.33	554117	15	20898.78	4697.8	0	3267.71	0	1808.63
7491.39	123129	19	379216.69	100490.56	0	22595.79	0	15179.93
7491.46	348801	17	268098.46	74541.56	0	11234.19	21147.22	14261.07
7491.52	345934	17	230416.98	60532.76	0	11716.26	22137.68	9293.67
7491.59	319984	17	305473.22	81174.94	0	15169.68	24872.44	7845.81
7491.65	339560	17	262426.99	70322.69	0	15818.39	22117.12	5654.5
7491.72	324756	17	314627.11	82131.18	0	17907.61	22606.55	7347.66
7491.78	393860	17	179968.13	50378.67	0	15469.25	11404.46	17489.93
7491.85	394296	17	136141.4	38125.38	0	9122.2	0	13778.57
7491.92	384253	17	304687.28	79155.66	0	24612.86	17036.15	42491.01
7491.98	357318	17	304668.51	79032.56	0	25981.4	19801.48	24134.56
7492.05	347838	17	303358.81	79215.99	0	24006.76	15380.41	27200.56
7492.11	374265	17	169296.06	50115.12	0	9595.87	9839.45	7337.41
7492.18	547265	15	38875.91	10959.17	0	4130.04	0	5827.85
7492.24	340798	17	281439.44	72856.87	0	19215.35	19813.63	23592.63
7492.31	454157	16	109971.21	32465.1	0	6925.41	0	9133.17
7492.38	343090	17	354607.01	92818.36	0	22181.04	26684.26	7555.3
7492.44	409464	16	157993.82	44722.65	0	8532.56	0	8956.39
7492.51	362429	17	196124.22	53525.78	0	9472.55	15133.27	9267.74
7492.57	321355	17	272490.22	74102.7	0	11405.6	23566.26	5316.37

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7492.64	283655	18	200653.76	57195.41	0	8511.61	13212.26	4965.26
7492.70	390581	17	186616.39	51829.01	0	9304.85	8433.36	6073.29
7492.77	341350	17	264427.16	72540.31	0	14419.47	17166.49	10577.86
7492.83	408057	16	129976.38	36718.04	0	5884.49	5483.98	5575.75
7492.90	401508	16	130339.28	36620.99	0	6805.29	4692.84	6936.54
7492.97	409134	16	142793.74	41091.97	0	6643.39	0	7479.26
7493.03	364567	17	215926.3	59328.83	0	10226.57	20155.87	5590.46
7493.10	327284	17	268463.92	68838.91	0	14426.56	22835.3	4092.78
7493.16	358162	17	161566.22	44777.62	0	8490.39	10450.17	5497.77
7493.23	373714	17	151606.22	43754.96	0	7696.04	11109.13	6122.44
7493.29	379753	17	191839.39	54305.02	0	8213.77	12947.55	5516.93
7493.36	293319	18	307750.63	87177.89	0	14209.44	22664.42	6512.27
7493.43	328626	17	319219.83	84983.88	0	15409.91	20361.17	6085.44
7493.49	516793	15	67716.43	19890.04	0	4075.75	0	2910.9
7493.56	369950	17	172484.53	47411.01	0	8817.47	11436.3	5982.08
7493.62	470030	16	74148.08	21006.12	0	4706.97	0	3591.69
7493.69	391902	17	149220.11	42034.55	0	6070.54	7576.47	3380.73
7493.75	628296	14	15202.08	3701.83	0	2250.5	0	660.85
7493.82	304990	17	309235.15	80953.7	0	13352.31	26046	5368.5
7493.88	322825	17	242181.75	64660.04	0	10896.95	21888.58	4093.21
7493.95	318635	17	228761.97	61516.04	0	13423.58	13651.46	2434.57
7494.02	365216	17	294123.03	72147.33	0	17087.21	14057.81	26293.83
7494.08	461730	16	89400.51	22687.29	0	6752.63	0	23903.38
7494.15	556272	15	37435.06	9941.89	0	3174.27	0	5240.18
7494.21	348260	17	180475.93	47897.55	0	9107.73	12257.52	5570.96
7494.28	437236	16	100681.33	26705.76	0	5073.58	0	6438.78
7494.34	372797	17	168700.04	44677.78	0	9320.89	9944.16	3876.68
7494.41	484103	16	65319.95	16904.39	0	4492.12	0	3845.89
7494.48	378818	17	203182.99	53736.64	0	8159.4	7567.44	15130.81
7494.54	537885	15	59003.35	14857.39	0	2812.49	0	2820.26
7494.61	570226	15	32265.51	8438.68	0	2320.49	0	2142.96
7494.67	371013	17	139325.29	36029.67	0	5518.34	5626.81	10092.13
7494.74	446246	16	126098.94	32240.58	0	5732.46	0	39388.28

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7494.80	494945	15	59137.97	17112.91	0	4221.5	0	6554.17
7494.87	525859	15	47419.8	12737.73	0	4262.98	0	7504.18
7494.93	386860	17	211670.83	55165.42	0	8533.33	7139.85	72198.74
7495.00	488006	16	82478.25	24178.11	0	3954.45	0	4083.49
7495.07	359862	17	102458.19	26204.28	0	4235.57	0	10471.2
7495.13	339477	17	84824.94	20791.34	0	3913.69	0	6680.84
7495.20	337820	17	91332.24	23077.92	0	4750.78	0	11962.59
7495.26	266316	18	237144.99	54882.9	0	11439.3	20830.81	4800.14
7495.33	376398	17	36753.04	8463.41	0	3179.27	0	2703.4
7495.39	201604	18	186335.56	46187.08	0	8661.53	0	5945.74
7495.46	334957	17	337242.46	78591.83	0	18362.66	17392.93	7215.23
7495.52	377333	17	166076.53	42416.32	0	10343.32	0	9057.8
7495.59	362418	17	215299.02	56615.2	0	8599.67	8343.8	10946.55
7495.66	503191	15	77718.94	19884.31	0	5675.4	0	7118.37
7495.72	402568	16	159436.43	40123.33	0	6774.39	0	33141.46
7495.79	301073	17	142682.41	37543.51	0	6581.64	0	18545.18
7495.85	371351	17	124336.85	30412.35	0	6259.24	0	11159.74
7495.92	351529	17	85759.91	20943.45	0	4688.28	0	11405.34
7495.98	307813	17	101061.42	22627.86	0	4793.06	0	10348.74
7496.05	318582	17	117372.64	23903.47	0	5641.3	0	19967.6
7496.12	322890	17	87128.37	18890.76	0	5636.56	0	9144.99
7496.18	374280	17	112543.58	26853.19	0	5749.46	0	5461.81
7496.25	335368	17	122697.71	25920.44	0	7190.57	0	8065.39
7496.31	289049	18	27128.58	2960.27	0	3554.04	0	9605.83
7496.38	238933	18	36321.42	6939.64	0	3828.54	0	8815.89
7496.44	364362	17	60460.83	11938.51	0	4233.31	0	7127.67
7496.51	484035	16	66159.76	15247.62	0	7252.61	0	9879.14
7496.57	300452	17	239640.98	50992.45	0	12786.13	0	21627.55
7496.64	570112	15	42356.47	8138.74	0	4330.04	0	40394.63
7496.71	538732	15	38032.21	7420.76	0	3856.88	0	15537.65
7496.77	414260	16	94294.89	19480.72	0	6498.9	0	28789.46
7496.84	366151	17	171275.72	39568.2	0	10525.37	0	9597.97
7496.90	371678	17	154537.83	34332.67	0	10969.45	0	11257.72

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7496.97	277682	18	193756.66	44432.61	0	8610.66	5579.81	6200.15
7497.03	331903	17	144258.38	32366.3	0	10665.26	0	16494.34
7497.10	379155	17	190190.19	46089.62	0	10347.65	0	16619.92
7497.17	341778	17	219060.3	52646.51	0	10206.07	0	8327.25
7497.23	432164	16	46251.79	10772.48	0	4415.59	0	4362.62
7497.30	294263	18	90723.1	23113.29	0	5756.84	0	18899.2
7497.36	502317	15	81087.36	21157.53	0	7502.39	0	7239.25
7497.43	290450	18	331004.74	85134.55	0	20800.97	0	8972.65
7497.49	363740	17	241063.64	59930.27	0	15520.08	11706.43	9098.67
7497.56	380096	17	151253.17	38741.6	0	11062.81	4606.83	20578.12
7497.62	319265	17	222357.84	52304	0	12535.92	13563.99	12572.42
7497.69	337624	17	245023.9	56477.22	0	16779.54	10993.39	10714.33
7497.76	425361	16	99425.35	23105.25	0	9789.79	0	13579.74
7497.82	313708	17	277830.48	66191.86	0	17393.24	14368.07	11662.38
7497.89	341077	17	108998.04	28344.2	0	6680.38	0	13518.1
7497.95	356978	17	323059.41	80662.41	0	22530.55	12347.5	16396.79
7498.02	364276	17	323866.2	76734.26	0	21331.19	9324.89	20600.78
7498.08	335433	17	95048.06	21573.78	0	6845.09	0	13379.05
7498.15	367878	17	251387.68	61689.81	0	24387.69	6933.87	22961.57
7498.22	336141	17	250515.79	61385.89	0	18495.35	8040.56	11176.8
7498.28	307433	17	173402.41	40019.92	0	17624	7154.76	19409.64
7498.35	284042	18	171533.13	38890.39	0	12762.56	8727.15	18342.09
7498.41	301965	17	193046.77	43352.44	0	15515.54	7825.48	17725.23
7498.48	475615	16	89066.09	24181.1	0	8198.71	0	15169.15
7498.54	410355	16	184296.42	44843.8	0	15424.25	0	25383.69
7498.61	416153	16	170066.85	40025.96	0	16109.15	0	21957.41
7498.67	374559	17	109223.35	28918.43	0	8782.62	0	15442.14
7498.74	360183	17	299127.83	70265.47	0	25674.81	4915.08	20561.41
7498.81	404745	16	155263.73	36414.43	0	11087.33	0	11912.41
7498.87	365862	17	257006.21	55649.05	0	28550.06	0	16728.66
7498.94	384972	17	227299.19	50947.76	0	19128.65	0	32249.04
7499.00	359842	17	279237.95	57341.78	0	21809.39	0	46011.85
7499.07	354186	17	298616.97	65105.38	0	19972.99	0	33412.12

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7499.13	368072	17	282727.71	60788.19	0	19550.48	0	38682.14
7499.20	337184	17	333905.9	70898.1	0	23085.53	0	22513.61
7499.27	338476	17	309206.08	66381.63	0	23424.16	5186.74	19850.11
7499.33	356098	17	233962.48	52052.79	0	20036.41	0	20324.32
7499.40	359853	17	263011.8	54556.98	0	23035.14	0	23708.55
7499.46	336992	17	334670.07	72729.27	0	22121.15	6867.81	12277.77
7499.53	345115	17	249144.7	54629.26	0	23096.71	0	10946.53
7499.59	392368	17	188607.82	40818.14	0	18446.84	0	19425.38
7499.66	408116	16	140039.48	29418.98	0	13377.66	0	24449.49
7499.72	377406	17	152333.68	34482.4	0	10074.2	0	17285.5
7499.79	363327	17	265534.16	55132.09	0	15274.36	0	87676.83
7499.86	393502	17	234388.58	49800.59	0	12177.53	0	104301.95
7499.92	444709	16	183931.89	39974.72	0	13670.43	0	101489.66
7499.99	436492	16	148619.28	32139.52	0	15771.14	0	23446.28
7500.05	622815	14	25458.93	5468.6	0	4734.42	0	5054.18
7500.12	368021	17	248800.47	53145.24	0	20091.56	0	15356.43
7500.18	340507	17	338421.65	68235.27	0	29184.88	0	14599.92
7500.25	335206	17	243092.61	51726.25	0	25321.76	0	11490.43
7500.31	299299	17	99785.19	18268.1	0	8106.84	0	36926.82
7500.38	354709	17	135307.64	31713.54	0	11850.04	0	49574.45
7500.45	413137	16	81321.05	17691.17	0	8165.95	0	86681.86
7500.51	360790	17	77003.18	15685.84	0	8832.71	0	47278.3
7500.58	247711	18	85174.85	16274.75	0	8990.94	0	19550.39
7500.64	301489	17	51801.59	8007.15	0	6368.01	0	12636.76
7500.71	302536	17	88374.71	15480.27	0	6892.12	0	11520.12
7500.77	337508	17	91961.25	16481.95	0	6157.57	0	12174.16
7500.84	292986	18	208196.58	37930.41	0	10811.27	0	11421.34
7500.91	333375	17	91522.76	16405.66	0	5550.29	0	10089.1
7500.97	288562	18	157011.43	29309.07	0	9784.08	0	11703.1
7501.04	349020	17	104828.01	18126.04	0	9748.23	0	12682.16
7501.10	424956	16	104380.61	20050.94	0	10223.67	0	11004.4
7501.17	426880	16	100636.42	21716.27	0	9560.05	0	9736.14
7501.23	474101	16	140618.26	24734.49	0	19706.9	0	17123.42

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7501.30	321113	17	67618.71	12408.94	0	4094.37	0	7662.44
7501.36	393828	17	72050.34	10911.1	0	17775.54	0	10628.9
7501.43	189049	18	27175.23	4544.07	0	4654.77	0	4245.29
7501.50	332354	17	337669.36	64043.65	0	20582.88	0	12265.23
7501.56	497699	15	75218.13	14456.7	0	36005.42	0	5947.1
7501.63	317592	17	90103.24	16837.79	0	4199.76	0	7339.13
7501.69	308756	17	205525.32	38349.83	0	9098.98	0	10725.21
7501.76	332552	17	368368.51	63818.82	0	19843.94	0	10912.56
7501.82	384625	17	183729.81	31352.06	0	10852.39	0	13547.51
7501.89	442580	16	89990.88	14189.31	0	5660.19	0	14577.93
7501.96	407355	16	109875.03	19842.74	0	7767.15	0	18038.37
7502.02	333427	17	227050.47	40085.79	0	12141.51	0	13596.49
7502.09	374359	17	210556.72	34096.96	0	19591.13	0	16984.5
7502.15	369409	17	328092.41	51774.81	0	51960.5	0	22974.17
7502.22	177311	19	171288.36	19697.22	0	9015.84	0	13025.93
7502.28	177221	19	166806.14	24024.77	0	8672.94	0	11647
7502.35	229716	18	238363.33	34006.18	0	14023.89	0	15210.55
7502.41	246996	18	301821.86	50579.47	0	21066	0	11251.77
7502.48	284276	18	161664.85	25352.92	0	10967.09	0	14915.96
7502.55	291006	18	122073.16	19635.08	0	6860.95	0	9972.81
7502.61	237225	18	246640.86	36810.45	0	15353.73	0	14893.3
7502.68	231419	18	279944.91	40308.65	0	15760.38	0	17516.41
7502.74	349863	17	300879.34	47468.31	0	11761.07	0	11438.9
7502.81	538836	15	75265.25	12361.48	0	3090.24	0	4723.11
7502.87	309250	17	362281.14	51768.96	0	18534.99	0	13211.34
7502.94	336984	17	320751.08	48648	0	15739.84	0	11750.67
7503.01	341176	17	131982.49	20109.69	0	9398.25	0	11641.14
7503.07	337410	17	127454.59	19610.67	0	7950.99	0	11411.74
7503.14	316510	17	384168.05	58573.04	0	17769.25	0	13676.23
7503.20	356830	17	217283.03	32602.76	0	11273.92	0	10744.92
7503.27	318474	17	300035.17	42440.7	0	19154.02	0	13439.06
7503.33	339858	17	200935.14	29052.36	0	14593.9	0	15462.4
7503.40	278199	18	267233.94	38244.89	0	15720.04	0	13855.25

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7503.46	311687	17	285715.09	43223.69	0	16911.89	0	21796.55
7503.53	272733	18	378923.44	59939.02	0	17958.2	0	23881.22
7503.60	334159	17	311906.05	46037.29	0	16500.9	0	21988.09
7503.66	404928	16	153239.95	25084.36	0	11602.56	0	16572.39
7503.73	306747	17	356367.82	56106.03	0	18957	0	13607.6
7503.79	355707	17	197541.74	32880.84	0	11354.82	0	15625.12
7503.86	353570	17	218008.33	32698.54	0	11815.43	0	16207.69
7503.92	489676	16	80695.63	12105.77	0	6475.53	0	13591.35
7503.99	320528	17	385826.4	58050.36	0	18481.53	0	15151.03
7504.06	341094	17	334764.58	52002.83	0	17365.86	0	19278.24
7504.12	491206	16	82680.98	13613.47	0	6349.24	0	11114.3
7504.19	345119	17	360523.01	53168.98	0	22151.92	0	20658.23
7504.25	334955	17	398564.61	58623.02	0	26307.87	0	21629.11
7504.32	343566	17	249645.78	36991.28	0	15917.94	0	23018.74
7504.38	321735	17	331460.37	49230.74	0	21167.55	0	26975.87
7504.45	335250	17	268814.41	41755.73	0	14008.23	0	22986.73
7504.51	316697	17	358214.4	51727.21	0	18838.82	0	25026.5
7504.58	307540	17	351222.79	53442.55	0	16723.39	0	25323.82
7504.65	316281	17	347824.81	49143.34	0	18396.32	0	33124.76
7504.71	305602	17	364486.78	59927.34	0	19134.7	0	30655.98
7504.78	320161	17	360896.97	55530.81	0	18483.42	0	22209.49
7504.84	319535	17	357828.16	55872.78	0	19201.09	0	21335.3
7504.91	325366	17	363051.23	59166.48	0	21176.26	0	24194.65
7504.97	317230	17	349769.27	57926.8	0	19549.5	0	21290.91
7505.04	456916	16	82323.27	12025.65	0	6736.7	0	22147.98
7505.10	300669	17	295977.25	46250.27	0	15927.2	0	32632.72
7505.17	343844	17	241711.86	41211.27	0	11917.05	0	23258.64
7505.24	486753	16	95134.04	16343.52	0	6996.45	0	22176.04
7505.30	342936	17	367406.61	58604.15	0	20785.91	0	36051.56
7505.37	382501	17	174792.23	30886.94	0	11161.93	0	16737.95
7505.43	384702	17	166982.77	28796.64	0	12081.66	0	19771.39
7505.50	366361	17	174734.69	30419.96	0	8913.26	0	17960.67
7505.56	163885	19	376941.86	64681.61	0	21706.94	0	22306.28

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7505.63	306873	17	325233.86	52825.09	0	21575.11	0	27694.55
7505.70	282074	18	280419.83	45938.01	0	19861.88	0	17571.61
7505.76	272395	18	280358.24	43372.11	0	17130.51	0	16410.1
7505.83	286107	18	309006.57	50319.6	0	25508.96	0	11695.52
7505.89	350296	17	247730.78	43456.04	0	24548.1	0	30618.07
7505.96	362185	17	139051.81	30246.52	0	11548.18	0	18011.36
7506.02	365072	17	317189.14	65106.24	0	33626.24	0	24736.4
7506.09	389669	17	159965.51	31861.09	0	15265.76	0	17235.11
7506.15	387526	17	197860.09	40072.12	0	18504.53	0	13683.61
7506.22	346442	17	284738.86	53630.65	0	26604.53	0	10807.4
7506.29	373374	17	288510.85	54867.86	0	36015.61	0	20985.02
7506.35	344524	17	296112.69	56682.77	0	35016.16	0	17400.75
7506.42	348530	17	383410	70768.65	0	36402.88	0	4523.09
7506.48	339254	17	392880.33	68911.45	0	31933.17	0	8909.64
7506.55	318728	17	367220.3	63588.05	0	20065.14	0	12576.48
7506.61	322791	17	234674.29	41323.55	0	13336.89	0	14826.37
7506.68	326105	17	378525.13	65002.52	0	20536.42	0	13687.67
7506.75	374651	17	184548.74	35660.58	0	11296.08	0	14269.93
7506.81	364981	17	200106.68	35743.22	0	13942.03	0	17019.17
7506.88	350276	17	315975.32	54647.57	0	20908.1	0	20585.13
7506.94	313753	17	361933.39	61395.24	0	18346.62	0	18079.99
7507.01	357484	17	244745.92	45584.93	0	17255.45	0	19360.05
7507.07	328953	17	341016.61	58718.54	0	27742.48	0	22670.68
7507.14	410679	16	151679.43	27696.06	0	8257.04	0	11217.12
7507.20	372087	17	271991.11	47704.54	0	19708.62	0	19682
7507.27	322518	17	354502.11	57366.78	0	22086.61	0	22932.75
7507.34	312620	17	358444.47	58890.47	0	21297.29	0	17515.33
7507.40	307728	17	345988.35	55055.61	0	24802.68	0	18913.53
7507.47	307607	17	243197.61	42144.01	0	14693.58	0	14154.83
7507.53	305349	17	258379.03	46426.05	0	16715.13	0	11994.18
7507.60	321783	17	363417.73	65182.18	0	19662.22	0	11712.48
7507.66	297194	17	326858.74	55895.26	0	16962.79	0	11577.54
7507.73	263582	18	333957.1	54422.6	0	20987.2	0	7067.78

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7507.80	339400	17	302785.84	49401.3	0	26189.4	0	6640.35
7507.86	317655	17	343955.54	55966.65	0	30455.96	0	13115.61
7507.93	297460	17	318295.43	56706.19	0	24626.23	0	15518.58
7507.99	298580	17	299167.53	55416.75	0	23946.07	0	21365.15
7508.06	342116	17	344995.15	65722.44	0	25789.66	0	22782.07
7508.12	436330	16	124865.13	23713.23	0	8581.91	0	12277.52
7508.19	295250	17	170890.73	25819.82	0	10577.11	0	10613.82
7508.25	253731	18	271861.38	42078.15	0	17947.66	0	12617.51
7508.32	357660	17	96598.1	15265.57	0	13173.42	0	13339.29
7508.39	272435	18	339484.63	49751.21	0	23465.38	0	9687.9
7508.45	279583	18	276688.47	42201.5	0	21002.28	0	10695.71
7508.52	260883	18	335058.87	48281.79	0	22132.24	0	6845.41
7508.58	278852	18	277060.99	51131.71	0	17305.06	0	8884.61
7508.65	295724	18	348637.71	59477.27	0	20434.73	0	14854.5
7508.71	272786	18	323576.96	52273.26	0	19366.1	0	13905.34
7508.78	286857	18	163024.12	27168.02	0	11045.24	0	18869.42
7508.85	256449	18	224487.36	35771.9	0	15568.02	0	21988.67
7508.91	219121	18	269637.76	43596.84	0	13554.96	0	12194.63
7508.98	262868	18	193219.74	28060.27	0	11044.17	0	8464.81
7509.04	277572	18	157274.58	23540.03	0	8886.17	0	6654.34
7509.11	242842	18	183022.08	25986.69	0	10777.8	0	9267.33
7509.17	255715	18	207498.96	29103.1	0	11467.66	0	17137.84
7509.24	518077	15	90349.57	14976.96	0	3866.95	0	3990.87
7509.30	408820	16	102172.6	19119.55	0	5188.17	0	17473.44
7509.37	451192	16	83470.27	13810.17	0	5038.04	0	19824.31
7509.44	355042	17	146879.57	26166.68	0	7865.15	0	25118.9
7509.50	356984	17	167236.86	26924.13	0	9993.76	0	23170.71
7509.57	296667	17	196409.48	25646.86	0	12093.78	0	72115.08
7509.63	365018	17	264216.98	51362.16	0	14604.03	0	40499.35
7509.70	343595	17	327799.77	56183.09	0	16229.21	0	56849.76
7509.76	367696	17	277616.43	47176.82	0	14518.1	0	65930.67
7509.83	332760	17	308683.52	50488.1	0	16208.19	0	57498.12
7509.90	314925	17	253204.73	42832.43	0	14057.16	0	24675.8

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7509.96	315346	17	329786.81	52405.98	0	18934.46	0	37571.13
7510.03	520290	15	82749.37	14441.69	0	4801.77	0	13026.55
7510.09	312576	17	319078.6	52996.64	0	19657.7	0	34241.4
7510.16	475082	16	154487.29	18020.53	0	26078.66	0	83133.42
7510.22	340061	17	300477.66	52613.8	0	19778.79	0	24804.2
7510.29	372939	17	147872.62	24578.13	0	8164.91	0	10991.53
7510.35	430592	16	54276.46	7398.29	0	4943.77	0	3796.9
7510.42	262171	18	338996.76	48209.03	0	13528.06	0	11814.86
7510.49	404077	16	255569.6	25241.48	0	40413.71	0	102282.84
7510.55	313809	17	386469.05	58798.44	0	16041.97	0	18534.19
7510.62	317062	17	315221.46	55178.51	0	11158.7	0	23034.69
7510.68	239591	18	309804.81	47836.53	0	12659.44	0	12426.44
7510.75	292471	18	361423.23	54193.56	0	17130.9	0	13995.84
7510.81	256301	18	278583	42714.47	0	14773.93	0	14546.61
7510.88	258577	18	339162.17	63461.75	0	15392.48	0	12217.75
7510.94	325959	17	346402.05	61569.26	0	22671.63	0	15518.21
7511.01	324308	17	258755.27	43566.04	0	14527.45	0	10758.13
7511.08	373820	17	181092.32	31897.13	0	14833.47	0	9655.08
7511.14	307453	17	365487.4	57102.55	0	19438.66	0	10746.58
7511.21	331281	17	303306.89	50271.8	0	20793.75	0	7521.54
7511.27	412980	16	128720.65	20565.47	0	11467.3	0	7281.6
7511.34	296448	17	354831.29	56167.72	0	23199.72	0	9369.76
7511.40	332728	17	253699.44	44621.57	0	18029.17	0	15764.66
7511.47	382513	17	169638.39	30465.47	0	14930.16	0	13688.8
7511.54	482714	16	84644.41	16830.05	0	5381.73	0	7643.05
7511.60	158570	19	417019.9	76569.52	0	33570.89	0	12559.73
7511.67	331817	17	181833.08	31040.57	0	18429.4	0	6875.72
7511.73	271067	18	322613.92	49856.52	0	15854.19	0	7217
7511.80	322076	17	180694.13	29067.78	0	13566.67	0	7746.19
7511.86	387508	17	115954.31	19328.51	0	11490.29	0	7954.5
7511.93	289106	18	131594.32	18773.83	0	10412.97	0	14751.56
7511.99	295801	17	327864.91	59990.48	0	20024.22	0	10107.45
7512.06	303836	17	325426.36	54964.13	0	20027.83	0	18744.95

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7512.13	298387	17	306625.48	52310.82	0	22153.52	0	20102.71
7512.19	290741	17	308409.9	53018.61	0	23858.56	0	18404.4
7512.26	207264	18	256986.82	41858.55	0	15395.72	0	16406.87
7512.32	418214	16	60392.35	9254.09	0	3736.24	0	2053.64
7512.39	270668	18	320153.28	49370.23	0	23610.12	0	9641.65
7512.45	340366	17	318796.39	51252.59	0	46896.99	0	11808.48
7512.52	301788	17	324465.57	46527.37	0	27664.49	0	14612.51
7512.59	394971	16	159925.07	26298.97	0	11237.01	0	9428.56
7512.65	293022	17	343690.59	55746.65	0	20592.1	0	12484.44
7512.72	472865	16	97611.95	18074.57	0	4276.43	0	5850.89
7512.78	455678	16	94949.1	17125.89	0	4940.78	0	8761.09
7512.85	321357	17	342716.72	56179.24	0	20902.21	0	20224.86
7512.91	308282	17	292798.4	49606.64	0	18101.55	0	14253.93
7512.98	376690	17	165092.25	27853.09	0	11008.69	0	8225.97
7513.04	304927	17	243485.25	42343.39	0	9969.1	0	7915.04
7513.11	373966	17	136373.39	23111.55	0	8207.97	0	6154.09
7513.18	268383	18	310212.45	46030.52	0	23295.87	0	5780.56
7513.24	407062	16	150784.22	25246.2	0	7759.75	0	4353.36
7513.31	473128	16	93239.86	16135.51	0	5209.14	0	3235.66
7513.37	313501	17	370473.78	63673.76	0	20685.97	0	8246.68
7513.44	308212	17	314999.56	53281.42	0	17264.99	0	13207.49
7513.50	341287	17	213807.47	37134.36	0	12972.41	0	11975.62
7513.57	339182	17	352790.96	61043.88	0	22958.03	0	21794.48
7513.64	253899	18	363832.66	66666.5	0	21366.17	0	18098.16
7513.70	347644	17	235355.1	42949.91	0	14005.16	0	26699.15
7513.77	295351	17	331394.51	54396.01	0	18838.32	0	13053.49
7513.83	302580	17	352538.92	54698.19	0	23014.71	0	10582.23
7513.90	332202	17	319955.04	53748.31	0	30698.71	0	9580.83
7513.96	279779	18	331277.28	53285.24	0	19859.02	0	9964.48
7514.03	347684	17	264678.63	47995.38	0	13409.12	0	16383.13
7514.09	350248	17	255192.09	42732.73	0	22832.24	0	10921.97
7514.16	467273	16	77127.83	12391.55	0	4618.62	0	7081.03
7514.23	303695	17	367681.89	59282.18	0	17834.76	0	11647.32

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7514.29	377717	17	372503.59	60016.32	0	45240.84	0	16264.07
7514.36	358937	17	262291.57	43849.05	0	16411.83	0	28103.36
7514.42	408519	16	114981.59	21777.1	0	5941.9	0	14104.43
7514.49	552620	15	41291.66	7131.37	0	2372.43	0	4457.97
7514.55	319540	17	279831.81	46079.22	0	16145.16	0	19180.48
7514.62	314216	17	337434.73	52160.67	0	20438.73	0	29171.05
7514.69	303286	17	337670.25	52190.58	0	13386.47	0	22130.95
7514.75	309340	17	359192.41	52713.25	0	14737.17	0	26637.15
7514.82	344517	17	362284.8	56216.69	0	17175.25	0	49945.82
7514.88	370704	17	307230.28	48227.93	3581.42	15627.47	0	92925.4
7514.95	599599	14	33372.32	4721.63	0	3518.17	0	10056.24
7515.01	394837	17	89172.94	14257.8	0	5022.85	0	21559.02
7515.08	311998	17	104151.69	15073.58	0	4906.47	0	27353
7515.14	356446	17	57327.36	8712.48	0	4880.49	0	19006.96
7515.21	636904	14	23271.08	2864.03	0	2771.43	0	9430.91
7515.28	643500	14	17781.47	2410.88	0	3587	0	8967.52
7515.34	664732	13	18176.39	1891.94	0	2722.59	0	1732.81
7515.41	626438	14	13958.39	1202.27	0	3427	0	5878.22
7515.47	431113	16	55917.68	8960.24	0	4970.03	0	13299.44
7515.54	619384	14	30947.04	5269.3	0	3712.69	0	10177.18
7515.60	645312	14	28692.3	4653.2	0	3221.11	0	13399.89
7515.67	114084	19	105658.48	24686.77	0	11610.16	0	87165.39
7515.73	489214	16	85232.39	14538.98	0	5986.22	0	68627.89
7515.80	324001	17	261033.73	50701.03	0	16415.68	0	22076.35
7515.87	468890	16	59323.19	11352.2	0	4843.69	0	25121.74
7515.93	582443	14	36341.85	6102.92	0	3550.77	0	16048.13
7516.00	497286	15	73781.08	17045.97	0	4905.3	0	13847.89
7516.06	426813	16	106276.92	22028.21	0	6911.05	0	16112.64
7516.13	348626	17	184811.31	41938.75	0	9539.98	0	15808.78
7516.19	549494	15	52745.1	10534.98	0	4113.88	0	4669.26
7516.26	548876	15	59614.08	11662.91	0	12000.84	0	4702.99
7516.33	372035	17	184877.37	40976.58	0	10818.98	0	11072.19
7516.39	527741	15	48765.79	9595.24	0	2923.05	0	2038.13

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7516.46	422332	16	77672.53	17505.15	0	4891.27	0	8136.62
7516.52	400342	16	204969.26	45913.82	562.73	18645.56	0	18670.22
7516.59	497255	15	71274.26	15336.03	0	7206.85	0	10584.45
7516.65	365720	17	127543.15	26643.92	0	13510.7	0	12201.92
7516.72	370791	17	113614.49	22859.99	0	10763.78	0	12225.72
7516.78	301737	17	178264.33	42562.41	0	17648.86	0	17499.13
7516.85	302406	17	186255.09	43530.82	0	18070.02	0	21105.76
7516.92	561168	15	54307.58	13235.79	0	6836.25	0	9763.51
7516.98	536661	15	121005.04	19673.66	0	10475.72	0	218381.75
7517.05	462345	16	129229.02	26372.4	0	8652.72	0	138456.96
7517.11	556827	15	96535.94	17392.89	0	12836.39	0	265719.46
7517.18	580098	14	74686.13	8042.42	0	13940.25	0	308454.22
7517.24	561972	15	122375.24	24541.21	0	17308.7	0	263699.3
7517.31	522081	15	46761.2	11903.16	0	6066.06	0	40854.55
7517.38	374299	17	265251.5	64685.61	0	26223.28	6793.54	65199.37
7517.44	329585	17	309510.15	70577.99	0	24371.25	9911.39	20318.64
7517.51	311347	17	200012.26	48472.89	0	15454.83	5324.35	12433.34
7517.57	360611	17	234026.57	56638.7	0	18285.35	8246.33	17433.11
7517.64	322004	17	287668.53	67462.56	0	21184.28	12740.34	25716.79
7517.70	315120	17	138377.6	37624.69	0	10351.64	0	22971.27
7517.77	278812	18	270242.62	61265.17	0	15171.37	5796.56	42176.16
7517.83	326000	17	227342.9	45960.95	0	11006.2	0	62641.58
7517.90	474119	16	71762.46	16505.7	0	5433.73	0	30978.95
7517.97	549272	15	44806.73	9295.91	0	3967.73	0	15931.77
7518.03	379103	17	227014.86	53768.14	0	12622.08	9735.66	59007.44
7518.10	616642	14	38857.12	2796.25	0	1745.34	0	324542.39
7518.16	635620	14	66971.74	3783.64	0	2036.99	0	406155.05
7518.23	639114	14	119446.22	6606.42	0	3318.97	0	385283.84
7518.29	616558	14	55629.58	4409.14	0	1856.64	0	228495.88
7518.36	545921	15	204408.69	12149.08	0	13544.05	0	306141.86
7518.43	620536	14	32715.53	1683.28	0	10775.23	0	387641.01
7518.49	632466	14	37942.3	4891.59	0	5046.39	0	420756.26
7518.56	637098	14	48900.58	6632.61	0	1745.01	0	418985.55

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7518.62	302806	17	43459.43	8629.83	0	2643.59	0	423196.97
7518.69	542088	15	21214.34	1929.21	0	1299.41	0	364325.04
7518.75	517061	15	38335.16	9764.14	0	1082.18	0	351258.1
7518.82	513099	15	27703.35	0	0	1156.5	0	389515.49
7518.88	451361	16	20295.89	0	0	1121.78	0	349290.98
7518.95	520598	15	41661.43	2780.77	0	1793.48	0	383895.46
7519.02	531156	15	30573.71	1951.33	0	1398.88	0	384377.68
7519.08	574427	15	20300.29	0	0	1413.85	0	331134.47
7519.15	555803	15	57127.69	4221.03	0	2274.83	0	372902.6
7519.21	469131	16	31810.98	0	0	1455.98	0	331284.78
7519.28	620432	14	29795.31	1910.36	0	1719.24	0	345820.28
7519.34	620402	14	45180.39	4278.86	0	1958.3	0	384842.1
7519.41	627859	14	72429.99	7888.51	0	2410.07	0	382472.98
7519.48	659809	13	36809.29	2484.09	0	1934.99	0	214753.13
7519.54	594526	14	58657.62	4192.03	0	2294.99	0	301761.46
7519.61	492364	15	30135.34	4946.08	0	2485.24	0	92427.52
7519.67	404871	16	201116.12	55447.52	0	12561.81	10776.81	83386.39
7519.74	209358	18	319679.64	76623.72	0	17617.88	0	70236.02
7519.80	476854	16	114712.24	26007.64	0	17201.49	0	38371.48
7519.87	452488	16	95090.48	21714.79	0	4993.46	0	46913.29
7519.93	321586	17	186331.11	44558.29	0	7918.7	0	50709.85
7520.00	459834	16	240785.71	47906.26	0	48996.44	0	128171.91
7520.07	444424	16	212786.13	38363.49	0	8506.57	0	163690.39
7520.13	361345	17	261138.58	54087.23	0	13016.81	0	90022.48
7520.20	417863	16	234046.97	49786.46	0	10153.32	0	157271.01
7520.26	565307	15	146995.64	23088.92	0	6221.57	0	300848.51
7520.33	548158	15	107987.5	12774.45	0	3531.38	0	281304.88
7520.39	530922	15	117865.04	15426.51	0	4059.08	0	275923.74
7520.46	459453	16	173331.22	32270.65	0	7697.64	0	204629.64
7520.52	361309	17	207230.74	37667.28	0	8951.61	0	88481.87
7520.59	312423	17	199687.11	36026.37	0	10206.08	0	25557.32
7520.66	346560	17	181986.58	35636.97	0	8203.6	0	14419.99
7520.72	307116	17	336908.57	61601.45	0	14226.8	0	21569.71

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7520.79	365211	17	191082.87	43499.01	0	6582	0	24103.93
7520.85	345491	17	295473.22	64682.78	0	15065.94	6324.03	46357.54
7520.92	298323	17	306379.59	69281.2	0	13436.69	9269.71	14951.73
7520.98	411741	16	83711.77	19898.35	0	3707.24	0	4828.59
7521.05	307956	17	327948.1	70201.99	0	19891.47	7388.4	10437.98
7521.12	304664	17	263208.17	69157.13	0	18229.52	17976.42	8720.77
7521.18	389002	17	204402.22	50499.47	0	24675.79	6069.63	15604.95
7521.25	366340	17	168559.59	42791.3	0	10517.04	6858.1	10805.48
7521.31	294533	18	282154.6	68489.98	0	15487.2	16514.49	10813.27
7521.38	276033	18	286137.24	72511.97	0	15963.65	14540.38	7804.29
7521.44	304849	17	320756.11	75806.05	0	16295.69	15867.64	6461.81
7521.51	475936	16	67323.44	16943.67	0	5137.19	0	7604.3
7521.57	380439	17	135690.62	33796.35	0	10943.69	0	15291.98
7521.64	327209	17	176599.34	44621.65	0	11162.3	10662.02	17581.12
7521.71	235365	18	256186.67	63280.24	0	12605.94	12792.64	13492.85
7521.77	288730	18	257226.44	69139.57	0	15471.72	4924.92	16026.54
7521.84	333205	17	255859.21	68370.77	0	9802.73	14306	13436.06
7521.90	327307	17	304579.31	72904.55	0	21454.4	13846.1	15039.98
7521.97	383437	17	150674.36	37574.28	0	11053.37	0	13507.56
7522.03	319970	17	232134.36	56406.03	0	13596.24	14753.6	16394.35
7522.10	464196	16	74754.88	18402.75	0	18217.97	0	11785.02
7522.17	337002	17	243381.34	63296.7	0	10260.97	15018.4	19464.7
7522.23	365727	17	185928.91	50066.11	0	9451.19	5334.97	23205.74
7522.30	445261	16	106145.94	26626.37	0	8777.25	0	22266.66
7522.36	407197	16	137552.79	37902.42	0	11027.38	7820.07	27545.11
7522.43	328262	17	217280.33	54396.01	0	13091.83	11451.92	22521.12
7522.49	322874	17	230412.75	58483.38	0	13999.43	12425.59	15647.06
7522.56	496493	15	51666.38	14580.37	0	7404.7	0	5154.07
7522.62	538087	15	42942.91	11747.63	0	4351.8	0	5222.6
7522.69	325489	17	300391.55	69640.55	0	18285.13	15254.22	24186.92
7522.76	411183	16	92052.3	22388.89	0	6769.63	0	23287.82
7522.82	327299	17	185948.03	43872.27	0	10539.75	0	20283.19
7522.89	309108	17	279893.82	61194.2	0	17635.17	13249.64	29742.95

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7522.95	389833	17	113357.83	29461.98	0	7934.32	0	26971.05
7523.02	329726	17	250560.08	63890.73	0	14801.2	11402.69	53425.53
7523.08	411237	16	171324.16	43747.61	0	12287.22	0	49311.76
7523.15	595153	14	114251.99	17752.01	0	3351.59	0	328214.31
7523.22	491609	16	69775.67	21725.01	0	4172.24	0	59340.11
7523.28	421604	16	214855.79	50853.09	0	11163.47	0	137526.11
7523.35	340200	17	250931.24	65894.43	0	9473.04	8433.89	85471.82
7523.41	473099	16	92663.34	23892	0	4890.14	0	64942.49
7523.48	432365	16	123477.9	31726.77	0	7013.39	0	51597.14
7523.54	331793	17	272765.29	70941.62	0	11464.46	16568.93	48108.7
7523.61	450373	16	65909.24	17433.55	0	4193.17	0	26053.18
7523.67	384240	17	78759.89	20960.55	0	4887.07	0	20729.91
7523.74	449453	16	98383.38	26534.75	0	4098.4	0	31745.98
7523.81	98472	19	95138.85	33686.1	0	3116.69	0	28363.04
7523.87	382782	17	148690.38	40491.7	0	2296.77	4555.05	38512.39
7523.94	284936	18	183939.06	46978.6	0	8229.85	9135.19	42226.61
7524.00	349772	17	284749.14	66643.46	0	8726.39	11845.14	67199.41
7524.07	420483	16	117202.8	27338.05	0	6501.05	0	57040.41
7524.13	374084	17	248823.22	58111.03	0	9445.06	10215.02	97534.97
7524.20	317854	17	256977.11	66070.96	0	6830.62	17841.33	50516.52
7524.27	416171	16	104172.63	29969.82	0	2346.72	0	33128.7
7524.33	467490	16	61923.19	15633.68	0	1197.95	0	23863.2
7524.40	415087	16	170233.96	39605.46	0	3448.86	0	170786.96
7524.46	628671	14	93308.26	13460.77	0	2587.9	0	340335.77
7524.53	541271	15	111919.76	18880.52	0	2919.15	0	257179.37
7524.59	551232	15	47408.14	8798.63	0	51721.76	0	273719.46
7524.66	600176	14	27177.85	3481.24	0	5401.28	0	402075.89
7524.72	576497	14	33750.92	5321.16	0	14890.66	0	373694.31
7524.79	642939	14	34769.97	7474.43	0	1895.22	0	415333.94
7524.86	638326	14	40259.88	6504.64	0	1461.95	0	409829.32
7524.92	638049	14	52992.24	6445.65	0	1791.77	0	405743.53
7524.99	512080	15	166241.24	30384.03	0	3154.76	0	235418.24
7525.05	463900	16	166527.68	29474.23	0	4039.56	0	205965.92

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7525.12	428051	16	221448.17	51795.22	0	7015.54	0	119247.76
7525.18	616466	14	42879.49	6938.39	0	1486.98	0	90211.88
7525.25	470522	16	83491.45	19474.77	0	1509.07	0	41709.04
7525.31	482479	16	74248.96	19084.82	0	2322.16	0	41401.27
7525.38	396154	17	94096.5	23665.45	0	1942.84	0	44593.81
7525.45	363356	17	234624.62	54906.01	0	5392.98	6847.64	82203.98
7525.51	471889	16	82104.7	18992.27	0	1484.87	0	77408.57
7525.58	495175	15	201349.92	36537.74	0	3400.2	0	207525.9
7525.64	485819	16	89663.25	21166.08	0	3089.69	0	144294.04
7525.71	368672	17	222291.73	52022.27	0	6616.27	5743.98	71959.14
7525.77	336431	17	280612.25	65741.69	0	3547.7	12630.53	74815.3
7525.84	372477	17	60204.39	14086.74	0	2632.38	0	17529.41
7525.91	310349	17	256805.61	61620.59	0	5325.47	16823.11	61467.19
7525.97	365225	17	155771.86	39068.17	0	2969.11	5354.17	48348.57
7526.04	424053	16	85201.34	23414.71	0	1674.25	0	35335.26
7526.10	355027	17	153967.62	36901.4	0	4766.3	0	59214.2
7526.17	399735	16	222557.39	42322.73	0	5335.74	0	138683.54
7526.23	413206	16	221234.82	41030.32	0	7797.4	0	132913.25
7526.30	631716	14	16813.51	2340.95	0	2330.63	0	23324.14
7526.36	598639	14	49154.05	9450.74	0	2952.23	0	132457.66
7526.43	385067	17	186027.24	47482.01	0	13210.16	5553.32	56555.63
7526.50	341917	17	250011.02	67771.67	0	11476.84	17257.73	65003.75
7526.56	553589	15	44095.03	7280.03	524.96	3156.61	0	76201.33
7526.63	408389	16	124727.44	28882.75	0	15569.7	0	50504.25
7526.69	350194	17	241524.13	52373.86	0	32271.97	8946.08	43352.67
7526.76	510337	15	51332.31	12527.01	0	6933.88	0	10025.08
7526.82	374521	17	117820.65	26097.39	0	12614.8	0	15871.31
7526.89	307837	17	174072.56	35893.09	0	9723.39	0	17458.37
7526.96	332339	17	88474.23	19240.49	0	5745.87	0	12034.06
7527.02	413486	16	77213.03	12572.97	0	6210.63	0	13973.15
7527.09	370225	17	83325.67	13057.8	0	6231.43	0	13265.22
7527.15	351607	17	54376.25	8389.62	0	4492.1	0	11192.25
7527.22	481290	16	82139.72	12366.63	0	4563.98	0	18074.85

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7527.28	487293	16	95596.88	15950.16	0	6998.38	0	19139.21
7527.35	306173	17	297973.14	48448.92	0	21931.41	0	30380.51
7527.41	331972	17	347001.87	54337.18	0	24648.85	0	27400.58
7527.48	370060	17	196916.59	32973.87	0	16949.69	0	30859.15
7527.55	336765	17	247618.56	38161.92	0	16605.69	0	41244.5
7527.61	357131	17	290553.23	49024.73	0	20393.86	0	37335.42
7527.68	361058	17	256897.14	42456.92	0	15906.76	0	32008.27
7527.74	349396	17	247593.14	37116.21	0	17508.34	0	23013.39
7527.81	269628	18	234862.16	39362.43	0	18372.46	0	21310.04
7527.87	338202	17	238918.16	35724.69	0	12317.24	0	41410.57
7527.94	297455	17	334445.76	54698.49	0	18414.99	0	23149.44
7528.01	315283	17	335844.54	52989.75	0	18755.39	0	24407.75
7528.07	360924	17	214401.45	38865.96	0	15983.69	0	22670.97
7528.14	349713	17	261882.89	45698.02	0	16092.13	0	32353.84
7528.20	367220	17	252584.28	44908.4	0	15478.53	0	36909.05
7528.27	363545	17	332023.83	66192.99	0	20485.28	0	53405.8
7528.33	361699	17	317432.14	59712.38	0	22198.69	0	32676.83
7528.40	469072	16	129355.2	19843.66	0	6006.37	0	80795.97
7528.46	417557	16	283034.72	42028.74	0	11667.39	0	149909.46
7528.53	377792	17	205491.03	36782.07	0	10633.67	0	62714.91
7528.60	409774	16	233030.7	37843.8	0	13476.09	0	128272.53
7528.66	350216	17	191224.33	39040.85	0	9726.82	0	70551.03
7528.73	452587	16	128557.25	23840.72	0	9020.73	0	60306.1
7528.79	362403	17	252649.71	49412.1	0	15686.78	0	49489.6
7528.86	398286	16	247672.13	53181.64	0	54027.01	0	38642.88
7528.92	320270	17	320056.78	63635.96	0	18159.91	0	36521.28
7528.99	392416	17	134806.04	26944.19	0	8064.04	0	26905.62
7529.06	329409	17	284939.34	59439.31	0	29526.06	0	11041.03
7529.12	280240	18	278789.34	60046.09	0	31527.42	0	15261.39
7529.19	494519	15	86825.66	18817.97	0	9443	0	12177.5
7529.25	348542	17	316228.5	66949.66	0	31176.27	6396.07	20624.75
7529.32	295551	17	176978.15	37732.21	0	14434.28	5014.05	16518.69
7529.38	320087	17	87945.45	16658.87	0	7200.16	0	19620.26

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7529.45	415794	16	90808.98	19617.46	0	8083.52	0	23091.17
7529.51	530647	15	30552.1	5360.12	0	3624.64	0	7336.48
7529.58	459789	16	63184.42	12152.92	0	5176.3	0	15161.28
7529.65	443352	16	37352.18	5245.45	0	5771.7	0	11499.78
7529.71	333208	17	83174.25	15181.78	0	6189.94	0	22383.19
7529.78	289556	18	58422.94	11263.53	0	6390.78	0	20148.95
7529.84	256343	18	285045.43	65782.88	0	33731.61	0	33765.45
7529.91	440944	16	58698.05	12183.32	0	5790.03	0	17306.32
7529.97	368822	17	53915.23	11184.93	0	6564.8	0	14713.32
7530.04	262001	18	302998.66	61984.83	0	19002.21	0	16644.87
7530.10	376478	17	267780.68	57103.27	0	21692.21	0	20434.81
7530.17	339122	17	238896.45	52488.76	0	14812.35	0	15376.53
7530.24	338100	17	99542.44	20704.58	0	8374.66	0	11593.99
7530.30	367693	17	158730.82	27847.95	0	39611.01	0	10870.05
7530.37	550849	15	37901.85	7391.34	0	6551.91	0	5021.88
7530.43	355231	17	223318.51	43525.94	0	11690.68	0	29426.02
7530.50	399852	16	246093.53	35588.76	0	11747.56	0	132977.73
7530.56	399351	16	133831.11	25894.5	0	7791.79	0	21835.36
7530.63	443799	16	118659.8	23092.16	0	6651.64	0	18490.23
7530.70	436174	16	92378.96	19567.18	0	5653.26	0	15859.45
7530.76	453535	16	132523.43	8108	0	81158.96	0	1662.8
7530.83	454042	16	59162.55	11679.41	0	4683.09	0	6124.87
7530.89	453830	16	218361.27	9352.86	0	110308.37	0	0
7530.96	339725	17	311713.76	63367.61	0	20502.31	5202.51	17649.31
7531.02	633272	14	9302.38	989.59	0	6602.97	0	2304.79
7531.09	364493	17	78049.54	12780.44	0	4629.23	0	13497.22
7531.15	263056	18	236848.52	41066.68	0	12198.05	0	30784.57
7531.22	329758	17	193667.94	36326.25	0	9329.22	0	41047.45
7531.29	436727	16	98498.34	19474.61	0	6380.15	0	28768.93
7531.35	436543	16	195381.5	39089.74	0	60411.8	8891.84	33118.69
7531.42	485534	16	65073.12	12540.31	0	4298.04	0	12901
7531.48	352685	17	94667	17426.89	0	12883.54	0	13716.33
7531.55	364774	17	43714.11	6798.13	0	7677.09	0	18933.05

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7531.61	362992	17	76643.42	14000.49	0	5808.34	0	13250.46
7531.68	467359	16	58458.25	10183.09	0	3517.44	0	7560.24
7531.75	304817	17	122981.95	20517.43	0	5276.32	0	26652.34
7531.81	430795	16	38685.45	5444.67	0	3451.37	0	9517.97
7531.88	254710	18	86952.75	22432.73	0	7758.03	0	85102.63
7531.94	512970	15	54550.65	10292.32	0	3252.1	0	11283.83
7532.01	306823	17	159646.77	27654.56	0	7406.45	0	35982.12
7532.07	298107	18	187869.86	30726.69	0	12803.61	0	62318.12
7532.14	317668	17	119101.23	20957.33	0	5091.35	0	117583.89
7532.20	372300	17	68353.56	8929.27	0	12334.15	0	157224.89
7532.27	457665	16	188550.08	32643.04	0	7470.09	0	207471.13
7532.34	464291	16	156311.1	22606	0	20227.28	0	191919.18
7532.40	519335	15	121365.34	15631.8	0	4900.23	0	223333.54
7532.47	447598	16	189516.18	27426.78	0	7109.86	0	187493.1
7532.53	394404	17	85122.82	15220.72	0	6148.81	0	54998
7532.60	422578	16	181084.42	35897.01	0	8587.7	0	75990.96
7532.66	384918	17	248744.62	52070.21	0	12647.75	0	65429.54
7532.73	507656	15	65974.5	12393.88	0	3048.37	0	17818.26
7532.80	352194	17	278942.28	53966.48	0	13423.16	0	59143.87
7532.86	552054	15	82625.75	15436.59	0	136295.41	0	8267.58
7532.93	378869	17	239066.37	46758.12	0	11301.48	0	47707.67
7532.99	516066	15	57715.78	11455.12	0	3888.58	0	18369.72
7533.06	419392	16	119229.96	23969.76	0	5968.97	0	47452.97
7533.12	449683	16	90690.74	18479.54	0	5371.91	0	44107.31
7533.19	383749	17	179352.57	37863.67	0	8953.24	0	62507.01
7533.25	465276	16	125502.21	26946.94	0	8349.84	0	61141.49
7533.32	412397	16	250856.97	49634.25	0	16432.32	0	94284.64
7533.39	588372	14	28015.35	4718.39	0	4040.92	0	11761.58
7533.45	381325	17	259682.71	48661.01	0	14387.86	0	93445.27
7533.52	393983	17	177340.57	33144.03	0	9678.99	0	76883.35
7533.58	508638	15	54079.03	10505.73	0	4214.4	0	27276.98
7533.65	372589	17	250377.72	50277.51	0	14674.93	0	66298.89
7533.71	501844	15	88932.21	16973.1	0	5772.2	0	69082.99

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7533.78	450388	16	142250.57	27342.22	0	7043.6	0	69781.88
7533.85	371307	17	330078.57	62579.35	0	18698.92	0	73880.35
7533.91	304571	17	126098.56	24969.22	0	8330.77	0	40219.58
7533.98	351580	17	310823.05	59730.65	0	19182.36	0	59242.54
7534.04	420587	16	122625.6	23399.4	0	9139.74	0	61223.97
7534.11	389112	17	247309.84	48343.37	0	15180.62	0	129932.98
7534.17	453300	16	228320.05	38396.88	0	12060.83	0	184458.54
7534.24	506902	15	186422.15	28919.57	0	9211.19	0	230336.74
7534.30	479480	16	178274.15	28882.73	0	9388.5	0	207236.39
7534.37	463943	16	129008.15	22415.81	0	6266.95	0	144512.04
7534.44	405999	16	263410.04	50421.9	0	13710.2	0	134492.61
7534.50	361622	17	170187.6	32688.4	0	9663.71	0	105915.19
7534.57	400168	16	187296.04	37458.13	0	9407.06	0	88494.36
7534.63	381511	17	254079.08	50339.27	0	13217.31	0	96683.27
7534.70	363123	17	197234.52	38416.71	0	11594.43	0	69718.98
7534.76	351280	17	295270.27	60295.84	0	17033.95	0	83247.63
7534.83	366819	17	206943.46	42865.24	0	12064.26	0	70359.03
7534.90	523090	15	66411	13855.26	0	4718.58	0	40112.47
7534.96	416528	16	95595.2	19402.92	0	5311.91	0	24218.45
7535.03	391302	17	92717.63	19233.48	0	6158.68	0	21588.91
7535.09	332813	17	126667.83	22888.28	0	7750.94	0	18736.06
7535.16	259650	18	259297.44	52947.98	0	18683.52	0	24085.94
7535.22	342677	17	280547.74	53844.44	0	17689.36	0	24463.14
7535.29	324701	17	294449.05	57431.13	0	18895.75	0	29937.9
7535.35	291522	18	313578.08	57123.41	0	21476.84	0	18453.62
7535.42	438341	16	123027.28	25170.66	0	7859.86	0	9697.11
7535.49	431299	16	74299.39	13580.74	0	5787.91	0	9565.48
7535.55	335596	17	340085.36	74554.05	0	23436.38	10552.07	9275.39
7535.62	295975	17	334377.35	65154.92	0	19969.54	7241.85	9743.74
7535.68	374276	17	172683.83	35591.47	0	9113.72	0	7973.52
7535.75	376888	17	120013.49	22215.34	0	8025.03	0	10744.52
7535.81	601458	14	18308.2	2132.11	0	2749.21	0	3103.53
7535.88	221840	18	137483.58	21942.48	0	8874.62	0	6470.56

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7535.94	297170	18	21072.06	3164.32	0	1881.88	0	1149.72
7536.01	434922	16	71235.99	14080.5	0	8367.96	0	19423.94
7536.08	512604	15	73484.23	15255.53	0	7630	0	7897.24
7536.14	323625	17	241621.72	48384.83	0	21168.78	0	10399.68
7536.21	253259	18	140875.53	27500.41	0	9984.61	0	7775.37
7536.27	303368	17	140858.03	27153.4	0	7245.28	0	5719.66
7536.34	309048	17	164191.35	32073.32	0	7697.59	0	6326.64
7536.40	318970	17	259330.1	52190.24	0	12244.4	0	8674.21
7536.47	329687	17	307430.26	55829.28	0	18277.96	0	11081.62
7536.54	445441	16	96845.67	18806.33	0	6555.03	0	8444.97
7536.60	595190	14	17648.73	1672.94	0	2771.39	0	13561.79
7536.67	511303	15	49981.53	8443	0	5886.53	0	5066.72
7536.73	370496	17	144715.13	25432.32	0	12922.63	0	17741.63
7536.80	300456	17	321905.6	53531.1	0	19803.44	0	32444.51
7536.86	335831	17	158246.95	28881.64	0	9969.03	0	27760.95
7536.93	431698	16	137440.5	23706.62	0	6880.11	0	21717.13
7536.99	336816	17	303317.2	53006.05	0	15374.94	0	25628.64
7537.06	321527	17	271383.54	50100.55	0	16808.73	0	19470.9
7537.13	398077	17	62912.54	11439.57	0	4603.18	0	7476.74
7537.19	308552	17	341706.28	64806.33	0	21647.63	0	19467
7537.26	352906	17	167222.37	29714.87	0	9783.59	0	15140.95
7537.32	313851	17	214537.59	39208.26	0	11494.21	0	13526.35
7537.39	360646	17	76952.71	14001.77	0	5422.81	0	13058.94
7537.45	361836	17	307393.71	51509.29	0	33813.8	0	27469.52
7537.52	465048	16	85644.02	14458.92	0	7237.78	0	20043.87
7537.59	339631	17	313274.48	57551.05	0	21583.29	0	31356.54
7537.65	345738	17	235938.55	44625.29	0	19410.4	0	27555.98
7537.72	471118	16	86041.95	15433.73	0	9048.22	0	21501.72
7537.78	375908	17	233157.11	42720.57	0	19998.97	0	24433.59
7537.85	344122	17	208609.03	39744.29	0	16619.23	0	28033.33
7537.91	310216	17	320529.54	60187.51	0	27876.26	0	31301.82
7537.98	179536	19	252105.46	52571.76	0	16632.64	0	36124.01
7538.04	347000	17	335125.35	62850.01	0	23266.48	0	21222.22

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7538.11	422081	16	108187.03	20827.81	0	8011.19	0	16059.09
7538.18	348365	17	202459.86	40431.56	0	14877.99	0	20192.59
7538.24	310488	17	247182.42	49373.92	0	22745.43	0	24843.55
7538.31	328845	17	314951.38	66984.24	0	43961.54	0	21873.31
7538.37	428090	16	171796.55	35927.93	0	15810.68	0	16867.16
7538.44	365350	17	301553.05	62211.08	0	25057.53	0	25934.32
7538.50	355659	17	288582.16	56577.66	0	27371.98	0	34936.17
7538.57	440424	16	96057.82	20647.83	0	11467.4	0	17959.79
7538.64	340797	17	216971.87	41117.13	0	18720.82	0	18017.5
7538.70	334267	17	321915.75	62231.23	0	25438.54	0	20377.66
7538.77	390751	17	157458.06	33744.89	0	19124.46	0	16356.52
7538.83	386713	17	140525.74	29204.73	0	14890.48	0	21703.58
7538.90	357471	17	230313.69	48848.76	0	17789.14	0	15208.12
7538.96	379035	17	212234.17	48305.39	0	20269.46	0	15875.08
7539.03	410788	16	91411.23	18728.18	0	11172.87	0	12621.99
7539.09	420478	16	114537.95	24964.13	0	12607.73	0	10503.77
7539.16	332743	17	259075.15	55164.46	0	25314.01	6057.89	12660.5
7539.23	338174	17	236153.53	47683.34	0	41948.54	0	12845.63
7539.29	424909	16	140718.29	29995.08	0	14335.05	0	22809.19
7539.36	332403	17	303209.71	59645.06	0	27847.15	0	13110.29
7539.42	416316	16	69185.32	13893.34	0	8311.93	0	9601.58
7539.49	390478	17	105919.69	22884.7	0	8668.94	0	19142.94
7539.55	323170	17	56365.56	9869.95	0	4958.54	0	12625.25
7539.62	475293	16	71960.41	15435.07	0	4896.85	0	11544.57
7539.69	384045	17	220792.36	46511.62	0	13075.18	0	15669.3
7539.75	416779	16	129436.17	26066.73	0	6895.32	0	9040.35
7539.82	360306	17	145617.38	29674.64	0	7986.55	0	9667.7
7539.88	346952	17	371278.42	70481.2	0	25243.42	0	24531.86
7539.95	175871	19	224043.11	45572.42	0	11455.68	0	13781.02
7540.01	533369	15	78184.29	15452.97	0	5690.2	0	12149.63
7540.08	350719	17	333817.01	61713.98	0	25731.43	0	20955.67
7540.14	519779	15	69563.59	13843.78	0	4960.89	0	4635.37
7540.21	419986	16	104511.31	19125.34	0	8894.12	0	7045.41

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7540.28	447332	16	76457.42	13860.37	0	5411.36	0	9853.68
7540.34	358579	17	342224.36	64526.48	0	24833.96	0	41532.06
7540.41	409113	16	180324.91	37505.06	0	12654.36	0	28681.73
7540.47	586321	14	49365.74	8816.81	0	8828.58	0	14445.07
7540.54	665217	13	16135.42	1810.09	0	1701.59	0	833.78
7540.60	277124	18	17571.27	3206.32	0	4236.24	0	195169.61
7540.67	383519	17	34547.05	5946.82	0	4066.95	0	32929.32
7540.73	410896	16	12374.75	4179.28	0	3225.04	0	9499.59
7540.80	610446	14	40409.44	7823.08	0	4003.7	0	8254.62
7540.87	313227	17	84132.22	17223.06	0	8180.39	0	25146.85
7540.93	603410	14	52943.83	10220.4	0	12329.95	0	16711.49
7541.00	266998	18	108391.17	19471.62	0	15624.6	0	41287.95
7541.06	272582	18	89780.02	15304.03	0	14384.72	0	28041.53
7541.13	284771	18	208522.89	39512.77	0	30435.98	0	28552.76
7541.19	411888	16	87708.63	18624.41	0	15149.91	0	22475.11
7541.26	284665	18	141734.6	28109.54	0	19405.32	0	33482.33
7541.33	392343	17	80324.64	13936.83	0	13939.92	0	27340.56
7541.39	288663	18	164892.5	32063.58	0	25936.13	0	19199.19
7541.46	307316	17	64931.86	11872.73	0	14039.59	0	15312.33
7541.52	309772	17	46410.61	6927.98	0	13904.08	0	16873.52
7541.59	302030	17	38179.28	5204.94	0	13952.54	0	11968.44
7541.65	307072	17	134562.76	20870.11	0	29910.47	0	34379.47
7541.72	284227	18	80124.67	14830.57	0	18352.98	0	22480.37
7541.78	265464	18	46440.26	6660.99	0	14146.01	0	16917.96
7541.85	365919	17	103643.45	18562.35	0	16704.38	0	41198.1
7541.92	439763	16	182984.94	36275.29	0	28004.48	0	40610.02
7541.98	360428	17	132171.35	28100.81	0	26003.25	0	20806.37
7542.05	349909	17	209767.37	35872.2	0	41995.64	0	49435.97
7542.11	333450	17	180446.85	26467.39	0	35539.9	0	38385.34
7542.18	332229	17	104495.32	15948.43	0	19799.28	0	43955.93
7542.24	320211	17	230420.35	39563.73	0	30056.07	0	63715.87
7542.31	388161	17	81484.47	14264.43	0	13791.59	0	58505.02
7542.38	341012	17	145091.98	16182.28	0	15646.01	0	96917.35

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7542.44	377708	17	151145.72	16711.99	0	11748.99	0	165889.67
7542.51	562030	15	58723.03	0	0	2723.56	0	283390.87
7542.57	627316	14	20305.23	0	0	1025.62	0	418964.07
7542.64	690021	13	13257.81	1629.21	0	1091.65	0	463720.97
7542.70	682211	13	21472.15	0	0	1729.45	0	464964.68
7542.77	701062	13	25710.01	4576.86	0	2117.57	0	463263.01
7542.83	642887	14	17037.54	1995.88	0	1510.73	0	449659.59
7542.90	678580	13	37458.44	1988.44	0	2358.61	0	443663.04
7542.97	696120	13	15610.6	1909.83	0	2510.68	0	315482.06
7543.03	703070	13	15743.12	3355.2	0	1724.56	0	316134.86
7543.10	610544	14	126576.92	4156.62	0	7469.83	0	369035.89
7543.16	506214	15	248221.94	7825.8	0	9028.5	0	264016.56
7543.23	349425	17	239890.94	6552.71	0	6512.07	0	181257.17
7543.29	464204	16	65103.64	4705.2	0	5970.69	0	149787.38
7543.36	419979	16	115470.46	21969.33	0	19301.96	0	86279.35
7543.43	376387	17	209745.19	38933.25	0	26772.55	0	39529.94
7543.49	338436	17	201327.35	30477.16	0	30285.35	0	39430.06
7543.56	323357	17	214797.6	34638.68	0	31721.7	0	51440.08
7543.62	337011	17	206741.38	36154.86	0	27585.57	0	53196.58
7543.69	341500	17	279044.58	41267.02	0	37578.08	0	34365.38
7543.75	467016	16	114947.76	18568.54	0	78864.61	0	25645.57
7543.82	302062	17	226670.15	37096.93	0	35883.66	0	31532.03
7543.88	360487	17	209172.44	37751.2	0	26280.15	0	58387.02
7543.95	445080	16	158243.66	18461.32	0	16247.45	0	155693.03
7544.02	319105	17	285201.24	46906.94	0	41667.83	0	93104.43
7544.08	384806	17	290761.65	49888.39	0	48857.08	0	29755.62
7544.15	342837	17	262130.31	44773.4	0	36840.37	0	48389.02
7544.21	417313	16	173974.89	24148.42	0	18231.14	0	189836.2
7544.28	483777	16	140823.85	25731.61	0	20515.13	0	126664.09
7544.34	423108	16	242407.07	42609.64	0	38455.37	0	116086.52
7544.41	396142	17	243030.75	42263.63	0	44626.23	0	52994.38
7544.48	383653	17	135288.19	25782.8	0	16965.17	0	25834.78
7544.54	453067	16	156482.21	25996.52	0	52434.07	0	30553.43

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7544.61	359974	17	277971.66	38532.58	0	25436.56	0	71925.63
7544.67	375621	17	253145.5	37271.34	0	43887.84	0	35280.12
7544.74	376409	17	299240.1	44353.6	0	36991.93	0	51227.34
7544.80	394440	17	289117.99	43664.32	0	40040.84	0	58714.07
7544.87	399479	16	187734.83	32735.98	0	30015.56	0	58767.95
7544.93	379347	17	164494.45	28107.81	0	23092.93	0	58465.83
7545.00	395249	17	125950.74	15360.18	0	19164.76	0	90572.66
7545.07	393200	17	230927.91	39625.81	0	33505.35	0	52183.05
7545.13	335749	17	172348	25024.9	0	27450.63	0	28054.36
7545.20	307639	17	278703.24	35229.75	0	32989.12	0	33526.06
7545.26	282291	18	297729.84	33476.1	0	29943.88	0	44436.91
7545.33	391510	17	181847.26	21228.26	0	22220.23	0	46692.51
7545.39	480716	16	87116.75	12053.45	0	22446.04	0	28589.52
7545.46	375430	17	235784.48	34730.5	0	61187.34	0	36659.57
7545.52	336817	17	241960.5	33645.85	0	33131.24	0	41576.05
7545.59	424141	16	93689.79	12706.38	0	18180.21	0	29957.64
7545.66	435006	16	130164.87	15546.1	0	12592.78	0	46223.08
7545.72	392903	17	108403.73	14984.9	0	10963.29	0	29114.6
7545.79	405717	16	344345.78	46365.05	0	49286.99	0	50422.48
7545.85	427772	16	193361.28	28344.17	0	23664.27	0	39799.49
7545.92	602420	14	29684.76	4264.5	0	7730.92	0	9576.52
7545.98	346451	17	305847.22	45833.86	0	26578.21	0	45724.44
7546.05	142576	19	31246.07	6377.52	0	3657.39	0	11283.23
7546.12	346017	17	231110.99	38714.33	0	35384.66	0	42220.94
7546.18	361851	17	313163.09	50108.96	0	35514.03	0	36050.67
7546.25	362520	17	309499.81	49130.02	0	42861.49	0	26514.2
7546.31	365462	17	267987.23	40061.99	0	43783.44	0	27655.38
7546.38	376612	17	287908.84	40788.06	0	41930.41	0	48406.79
7546.44	391287	17	274866.68	39261.41	0	32235.76	0	85086.11
7546.51	487723	16	103737.71	9485.77	0	10693.8	0	140947.51
7546.57	519133	15	158518.23	16137.68	0	38057.38	0	183301.8
7546.64	378586	17	164464.28	24188.04	0	38784.4	0	126688.97
7546.71	545124	15	72846.71	12738.92	0	41215.07	0	19993.16

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7546.77	354766	17	280852.47	45399.6	0	42827.93	0	40802.75
7546.84	336188	17	294201.48	46207.23	0	49305.74	0	35774.99
7546.90	372301	17	336174.45	46087.03	0	44203.37	0	27201.58
7546.97	354393	17	320090.84	41319.27	0	41183.06	0	34419.93
7547.03	446132	16	289557.78	44897.7	0	73566.79	0	29005.22
7547.10	358018	17	324671.86	41883.79	0	46921.91	0	22720.88
7547.17	327083	17	243547.19	31254.81	0	31129.96	0	56388.43
7547.23	348609	17	229146.41	33263.72	0	27388.25	0	71011.68
7547.30	464646	16	101988.75	14171.72	0	15511.43	0	127541.16
7547.36	354266	17	186448.34	23146.12	0	24909.28	0	94752.57
7547.43	438651	16	54447.64	6625.77	0	10026.53	0	51110.47
7547.49	426688	16	235164.66	32461.52	0	32162.34	0	85784.16
7547.56	337922	17	229397.91	32957.8	0	28670.9	0	75701.16
7547.62	367860	17	190185.96	24807.85	0	21330.78	0	89845.42
7547.69	368096	17	73349.21	9918.3	0	13524.54	0	29418.85
7547.76	335700	17	82594.33	11455.38	0	10940.08	0	55150.66
7547.82	216191	18	41720.57	11484.36	0	8592.78	0	20083.35
7547.89	206146	18	102212.81	17206.98	0	15593.73	0	18253.14
7547.95	252465	18	60537.6	6283.05	0	12907.66	0	32826.95
7548.02	309434	17	339886.67	50175.98	0	45692.94	0	25029.51
7548.08	379521	17	288446.62	44883.16	0	49642.08	0	47409.81
7548.15	323139	17	272580.18	33579.2	0	28795.02	0	54730.99
7548.22	378285	17	197109.28	21914.54	0	44561.74	0	63679.31
7548.28	386686	17	332024.15	43482.1	0	34098.48	0	61231.17
7548.35	373841	17	223543	27395.62	0	21417.54	0	42263.82
7548.41	388108	17	298838.92	43817.22	0	35806.9	0	61643.81
7548.48	343644	17	315630.39	39849.93	0	39638.73	0	24297.1
7548.54	388029	17	195340.88	24124.19	0	24219.62	0	17337.24
7548.61	361954	17	327976.53	42597.34	0	39146.36	0	38640.61
7548.67	316792	17	257900.02	27570.51	0	25197.44	0	16984.08
7548.74	340851	17	234051.31	25180.12	0	23368.52	0	16981.34
7548.81	323392	17	271989.34	27228.14	0	22353.58	0	17352.36
7548.87	294573	17	275654.43	33998.4	0	22801.39	0	16205.77

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7548.94	325716	17	368638.9	35775.93	0	22868.22	0	31586.76
7549.00	343257	17	383635.37	44288.77	0	31341.38	0	13712.19
7549.07	411155	16	315038.27	47337.78	0	35848.23	0	20266.43
7549.13	346720	17	340001.74	42592.8	0	38140.57	0	16067.7
7549.20	320219	17	326642.54	42981.33	0	35070.9	0	15294.99
7549.27	331519	17	353407.31	43749.04	0	33083.39	0	18936.58
7549.33	322074	17	358146.01	47576.5	0	31174.13	0	11604.33
7549.40	340123	17	327715.58	41763.67	0	39864.22	0	14043.75
7549.46	332217	17	337524.75	34392.48	0	36672.41	0	12926.52
7549.53	337687	17	275030.94	25446.89	0	23006.37	0	8466.37
7549.59	315617	17	335437.1	29023.65	0	26310.09	0	11415.6
7549.66	341552	17	246463.72	18581.1	0	18515.59	0	16699.45
7549.72	332828	17	353490.64	43439.8	0	37047.18	0	16251.16
7549.79	348902	17	204065.69	20679.66	0	18106.55	0	17199.03
7549.86	240287	18	393157.94	37543.41	0	28953.07	0	11671.5
7549.92	398178	17	163213.46	17161.99	0	23386.74	0	13439.75
7549.99	361801	17	247249.7	21385	0	19165.59	0	33931.39
7550.05	334540	17	327924.46	35935.66	0	24100.68	0	52596.82
7550.12	352080	17	200754.57	18768.65	0	11923.17	0	144842.83
7550.18	308908	17	237220.48	31847.62	0	36530.49	0	66480.13
7550.25	345583	17	305660.14	34898.83	0	37153.16	0	46048.84
7550.31	326988	17	302631.24	38599.41	0	24092.04	0	35871.46
7550.38	285002	18	305345.51	38137.6	0	24436.43	0	32703.64
7550.45	410633	16	188294.77	24205.05	0	19549.38	0	44136.42
7550.51	357005	17	355963.03	42409.74	0	27701.41	0	56496.19
7550.58	331350	17	254876.85	25439.15	0	13476.57	0	54479.23
7550.64	307575	17	266452.47	24827.63	0	23016.86	0	29494.93
7550.71	298388	17	133828.63	8156.42	0	10422.44	0	32315.84
7550.77	288072	18	184991.99	15280.76	0	16452.18	0	38305.24
7550.84	297542	17	292669.23	26049.36	0	21295.33	0	24082.23
7550.91	356169	17	207001.5	23405.92	0	17969.68	0	20699.24
7550.97	439871	16	95721.27	9656.14	0	14780.55	0	20867.85
7551.04	284262	18	336316.34	30915.15	0	16119.69	0	40195.09

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca(ppm)
7551.10	387980	17	229608.87	21032.71	0	15271.3	0	46686.61
7551.17	390662	17	155543.31	17541.12	0	15241.15	0	26770.79
7551.23	384290	17	191365	25336.94	0	20034.18	0	20393.89
7551.30	343324	17	157488.21	13750.15	0	9709.31	0	16721.73
7551.36	400252	16	198761.91	18533.37	0	22306.96	0	8227.68
7551.43	294144	18	214137.84	12937.11	0	12121.68	0	13375.52
7551.50	281646	18	135391.97	8411.23	0	8353.26	0	15176.47
7551.56	207154	18	244853.85	24677.48	0	13453.82	0	13400.38
7551.63	373687	17	306797.25	33102.87	0	33076.21	0	35707.3
7551.69	522992	15	84412.52	9503.23	0	12852.69	0	23196.28
7551.76	466215	16	74994.82	7720.46	0	10275.11	0	22966.99
7551.82	305425	17	173033.68	16081.62	0	30990.3	0	22108.78
7551.89	326390	17	139477.05	11135.24	0	11634.98	0	17910.95
7551.96	382728	17	199591.02	28619.16	0	16256.27	0	18772.4
7552.02	331394	17	219534.28	30538.02	0	18408.06	0	49756.77
7552.09	280862	18	162622.38	25701.2	0	10749.51	0	27044.29
7552.15	540508	15	89044.76	9529.89	0	2873.55	0	347831.99
7552.22	654116	14	53779.7	4241.74	0	1938.97	0	423088.1
7552.28	651836	14	32763.14	2255.22	0	1520.4	0	408968.13
7552.35	590349	14	29540.96	3184.85	0	2316.09	0	397989.64
7552.41	630531	14	25153.68	3559.98	0	1682.22	0	409727.39
7552.48	659914	13	19836.47	0	0	1391.63	0	398584.03
7552.55	612197	14	21662.88	1622.17	0	1174.36	0	431628.73
7552.61	623372	14	11961.41	1020.32	0	1021.6	0	213258.8
7552.68	641246	14	14459.27	1809.2	0	1103.67	0	329570.13
7552.74	648064	14	21001.5	2756.61	0	1571.35	0	394034.93
7552.81	518325	15	14112.63	1589.24	0	1304.73	0	322842.52
7552.87	698043	13	27650.84	0	0	701.76	0	448758.61
7552.94	680298	13	22925.95	0	0	712.17	0	444062.15
7553.01	666638	13	19849.06	0	0	981.37	0	448606.15
7553.07	660865	13	21874.04	4280.37	0	786.18	0	443405.52
7553.14	661870	13	18294.69	0	0	1147.77	0	450463.26
7553.20	619399	14	38499.81	5590.28	0	7008.67	0	396773.13

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7553.27	549064	15	43322.28	0	0	2843.58	0	321335.39
7553.33	630129	14	63212.29	2109.02	0	4430.71	0	401657.22
7553.40	702584	13	13189.21	0	0	4098.94	0	53778.75
7553.46	428979	16	56116.03	7905.06	0	6754.03	0	29104.18
7553.53	309440	17	171772.1	26923.45	0	17130.93	0	41723.89
7553.60	531825	15	30746.73	2232.53	0	4707.56	0	4478.29
7553.66	568001	15	28201.57	6359.95	0	3183.31	0	1460
7553.73	472000	16	67332.75	10021.5	0	7404.37	0	14089.99
7553.79	559909	15	38061.38	8893.42	0	2452.79	0	34433.16
7553.86	373558	17	16653.62	4117.52	0	934.26	0	0
7553.92	488440	16	23516.61	9366.62	0	1273.68	0	0
7553.99	474909	16	83680.36	10063.61	0	2739.49	0	10480.94
7554.06	103833	19	93195.86	7636.31	0	5017.01	0	30871.34
7554.12	234252	18	221244.11	38124.07	0	13480.36	0	22474.69
7554.19	308455	17	300354.36	36027.26	0	19716.16	0	29278.77
7554.25	300956	17	322171.58	30704.99	0	20898.96	0	48213.99
7554.32	349789	17	146176.93	17921.64	0	13351.59	0	19982.11
7554.38	334600	17	158716.69	15500.73	0	7804.15	0	10180.49
7554.45	416475	16	130601.13	17144.09	0	8229.16	0	7266.77
7554.51	431868	16	145913.57	21970.92	0	14027.85	0	17022.37
7554.58	442751	16	120183.66	17426.24	0	16173.6	0	16528.61
7554.65	439788	16	100334.11	13442.48	0	6199.74	0	19748.19
7554.71	428671	16	86978.21	14183.75	0	5310.66	0	12475.76
7554.78	467874	16	31371.38	11763.1	0	2756.97	0	0
7554.84	209670	18	78916.7	13588.76	0	2239.47	0	5985.24
7554.91	297736	17	347320.81	37991.85	0	15370.28	0	8536.29
7554.97	324677	17	341065.64	47266.2	0	23963.34	0	30228.39
7555.04	311056	17	301260.1	26684.62	0	10365.4	0	53106.88
7555.10	346152	17	175855.83	23422.07	0	11117.5	0	30011.62
7555.17	449410	16	72417.94	10948.22	0	5306.77	0	84233.08
7555.24	396367	17	211650.53	32755.22	0	12690.22	0	82603.35
7555.30	637873	14	21677.3	2011.09	0	8315.18	0	215857.25
7555.37	652761	14	15214.28	1819.75	0	2455.07	0	114909.9

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7555.43	648299	14	35130.84	1148.63	0	2094.02	0	140313.2
7555.50	641791	14	74544.57	3392.59	693.67	1328	0	356094.51
7555.56	515587	15	94711.4	2130.12	0	7400.82	0	177461.23
7555.63	580364	14	42519.43	9598.33	0	6977.28	0	20771.01
7555.70	654100	14	18862.35	0	0	2888.82	0	152916.46
7555.76	523233	15	61527.68	8795.54	0	6677.76	0	94977.5
7555.83	633206	14	21267.63	3292.75	0	4835.43	0	15971.04
7555.89	578099	14	44209.95	11847.53	0	3953.18	0	20489.62
7555.96	604713	14	152063.6	8970.89	0	7465.72	0	377658.05
7556.02	574704	15	108505.7	2129.73	0	1506.25	0	353114.05
7556.09	559671	15	56463.78	1771.7	0	1637.1	0	308346.84
7556.15	243095	18	266949.56	39783.72	0	11299.02	0	78373.27
7556.22	481452	16	151691.3	9536.25	0	1649.29	0	264677.38
7556.29	181733	19	56070.65	21472.65	0	3281.23	0	5768.25
7556.35	248799	18	69841.18	27714.05	0	3578.11	17633.93	19951.53
7556.42	219315	18	273521.69	80044.34	0	13570.91	47439.7	13462.81
7556.48	281531	18	120699.24	9771.49	0	1979.03	0	16929.35
7556.55	352126	17	230796.08	23949.53	0	11427.17	0	51832.1
7556.61	334439	17	341267.55	34019.56	0	13812.65	0	62749.37
7556.68	332439	17	318284.05	27452.37	0	12082.2	0	58601.58
7556.75	344621	17	227133.04	18086.92	0	8447.46	0	63158.79
7556.81	367617	17	248534.89	25088.23	0	12069.65	0	98627.52
7556.88	379264	17	280195.15	21011.76	0	8924.17	0	123099.06
7556.94	430301	16	235129.87	8232.17	0	23235.57	0	144193.2
7557.01	378212	17	197863.16	24426.07	0	13448.69	0	87742.11
7557.07	398513	17	311244.24	30242.82	0	21035.24	0	86237.59
7557.14	612431	14	55730.98	3193.67	0	7076.39	0	180727.68
7557.20	413155	16	158932.01	15961.8	0	9006.16	0	65216.83
7557.27	433351	16	131958.15	35224.38	0	12578.42	3924.18	77576.97
7557.34	348719	17	257246.57	37599.48	0	13876.51	0	73029.11
7557.40	415157	16	241635.8	46746.28	0	21309.95	0	114917.1
7557.47	481344	16	26077.78	2577.98	0	3197.54	0	14016.36
7557.53	462535	16	112996.12	1509.96	0	9739.67	0	14578.95

True Depth	XRF tCOUNTS	XRF Live Time	Si (ppm)	Al (ppm)	P (ppm)	S (ppm)	K (ppm)	Ca (ppm)
7557.60	450726	16	103507.1	866.78	0	1452.81	0	67392.78
7557.66	481631	16	83060.85	1866.81	0	1724.32	0	36476.89
7557.73	498842	15	90938.13	1676.85	0	2341.48	0	20318.51
7557.80	606336	14	10057.84	0	0	916.08	0	54826.8
7557.86	587553	14	59975.57	0	0	457.87	0	354369.34
7557.93	648111	14	39856.02	1592.08	0	474.09	0	411790.19
7557.99	664767	13	44206.42	0	0	377.34	0	419904.38
7558.06	623808	14	91911.43	0	0	446.61	0	403167.79
7558.12	573901	15	7703.4	0	0	1542	0	69185.24