



INL Lithologic Core Storage Library

Idaho National Laboratory
Building CFA-663
Operated by the U.S. Geological Survey
for the U.S. Department of Energy

Contact:
Linda C. Davis
PO Box 8072
Pocatello, ID.
83209

Official Name: USGS-131

Logged By: Reuben C. Johnson, Dec. 2003

Selected Aliases:

USGS Site ID: 433036112581601

Contractor Well ID:

Drilling Agency: USGS

Year Drilled: 2003

Names of Drillers: Gilbert and Vance

Well Status: Complete

Total Depth of Hole (ft): 808.5

Total Core Recovered (ft):

Beginning Depth (ft): 10.1

Ending Depth (ft): 808.5

☒ Continuous Recovery

☐ Selected Intervals Recovered

Total # of Core Boxes: 159

Notes:

County & State: Butte Co., ID

Quadrangle Name: Circular Butte 3, NW

Lat / Lng: 43° 30' 36.28" 112° 58' 16.05"

Tns / Rng / Sec: 2N 29E 11, CCA1

UTM Coordinates:

Altitude (ft): 4,977 NGVD29

Core Geological Profile

Lithologic Patterns



Basalts



Rhyolites



Sedimentary Rock

Soil Patterns

(See Unified Soil Classification System.)



Gravels - clean



Gravels with fines



Sands - clean



Sands with fines



Silts and clays

Intervals in Absentia



Surficial material



Natural void



Interval not cored



Missing interval

Igneous and Sedimentary Structure Symbols



Vesicle zone



Large vesicles



Vesicle planes



Mega vesicles



Vesicle Cylinders



Pipe vesicles



Pillows



Vesicle Sheet



Flow/Mold



Spatter feature



Ripple marks



Mud cracks



Imbricated bedding



Graded bedding



Cross bedding

Soil Structure Symbols



Structureless - Single Grained



Structureless - Massive



Platy



Granular



Blocky



Prismatic



Columnar

Depth (feet & tenths)

Core Photo

Igneous, Soil and
Sed Structures

Lithology

Description

Miscellaneous Text

Lithologic Description

Fracture
Frequency

(See fracture
classification on
website.)

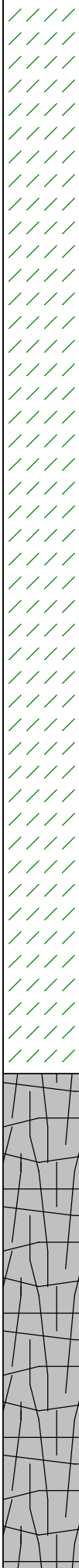
0 1 2 3 4 5

Vesicle Characteristics

Mean Size (in)
0 0.2 0.4 0.6 0.8 1.0

Volume Percentage
0 10 20 30 40 50

SURFICIAL MATERIAL: Not Cored. Surficial
sediment, modern unconsolidated sands, silts
and clays.



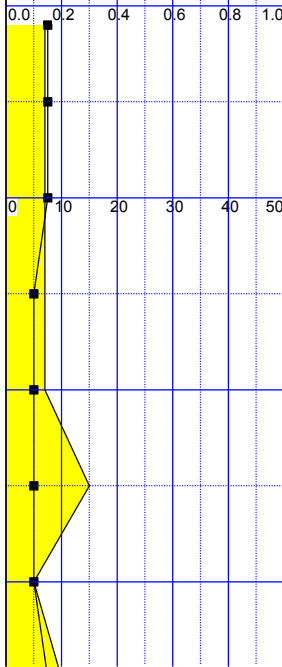
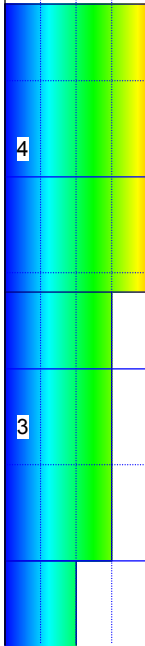
BASALT: Color: Medium and dark gray with regions of very dusky red

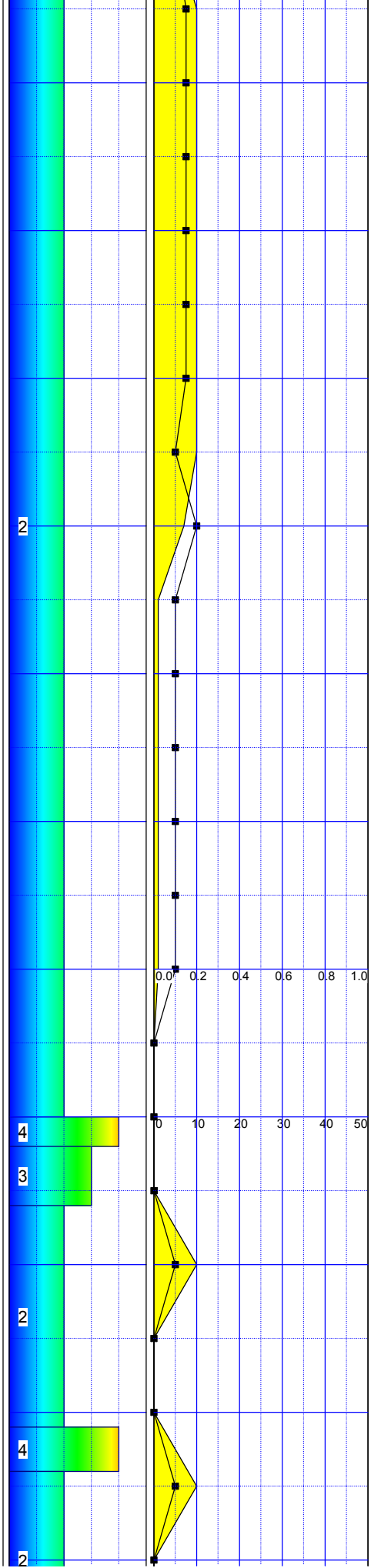
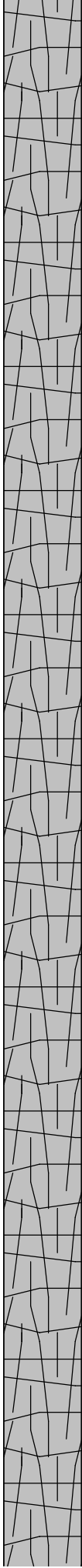
Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic granular groundmass throughout. Alternates between diktytactic, vesicular and massive texture. Grains are euhedral to subhedral, and evenly distributed. Some vesicle cylinders and sheets contain 1-2 mm euhedral to subhedral, tabular to acicular, plagioclase phenocrysts.

Xenoliths: None noted

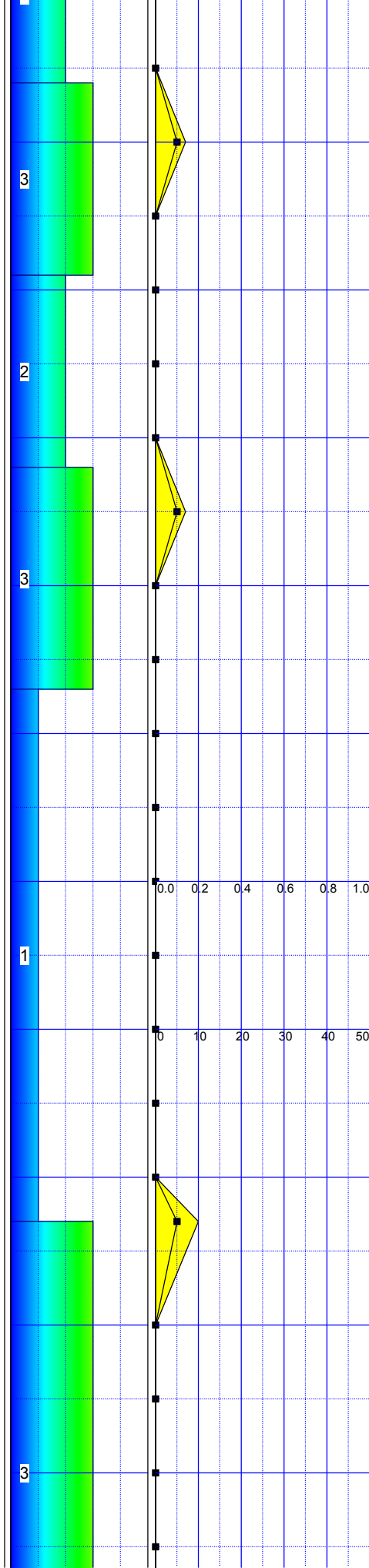
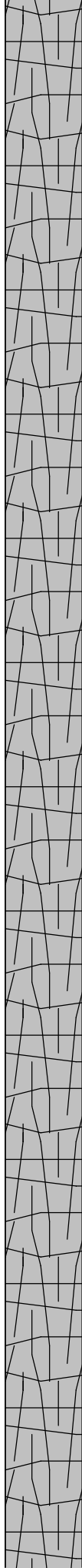
Alteration Activity: Some fracture systems and nearby vesicles are filled with silts and clays and show mild bleaching.

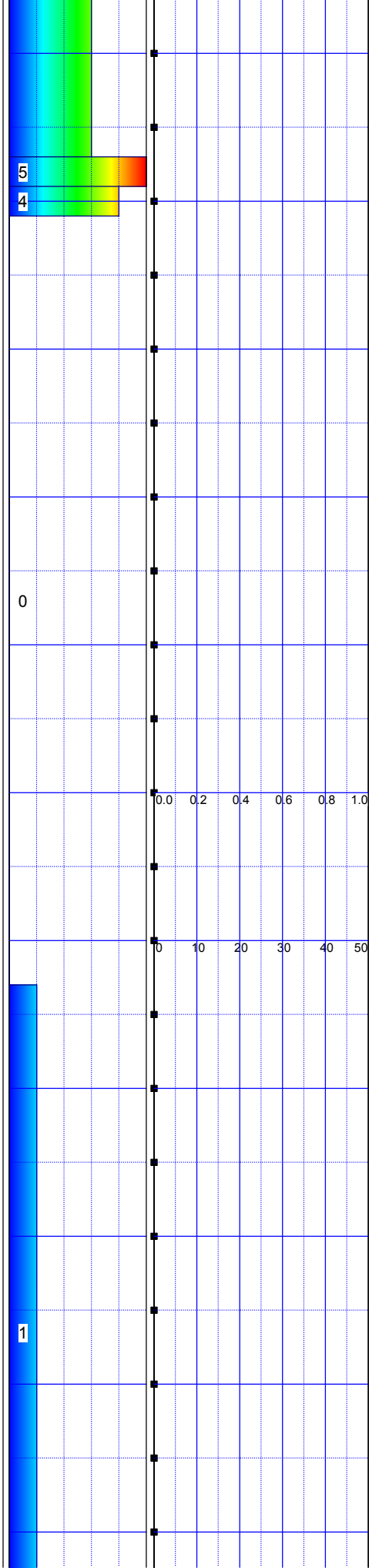
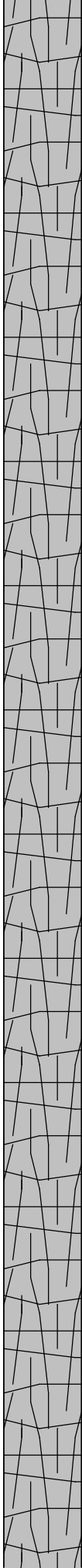
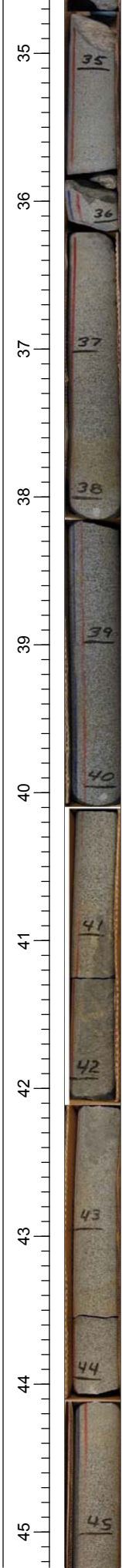


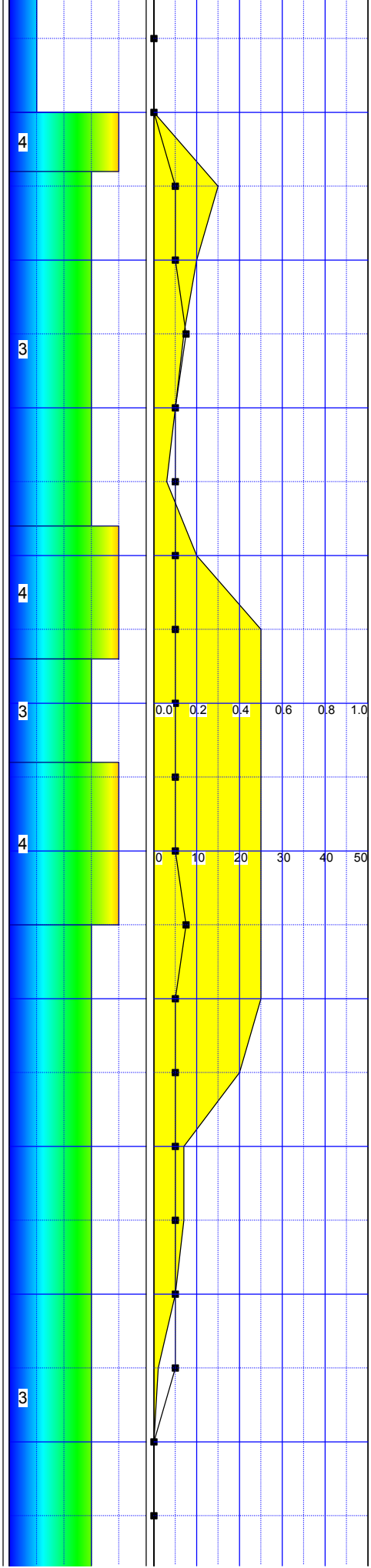
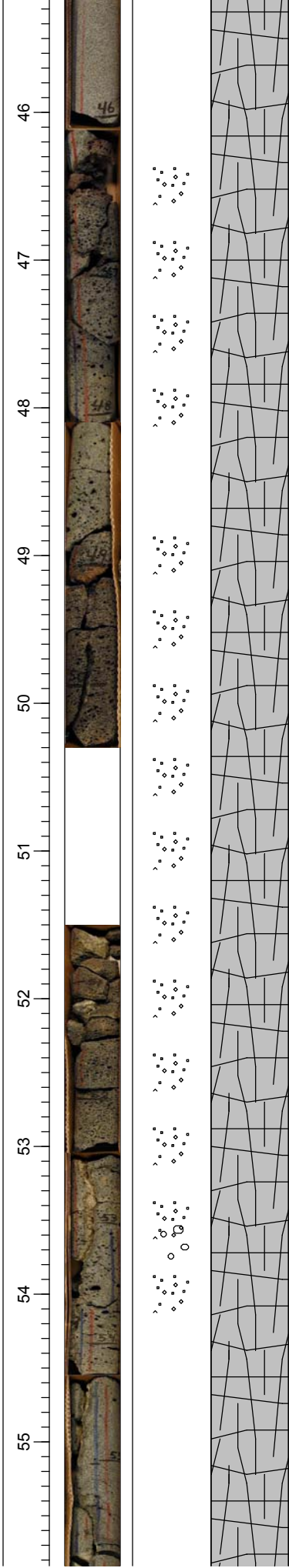


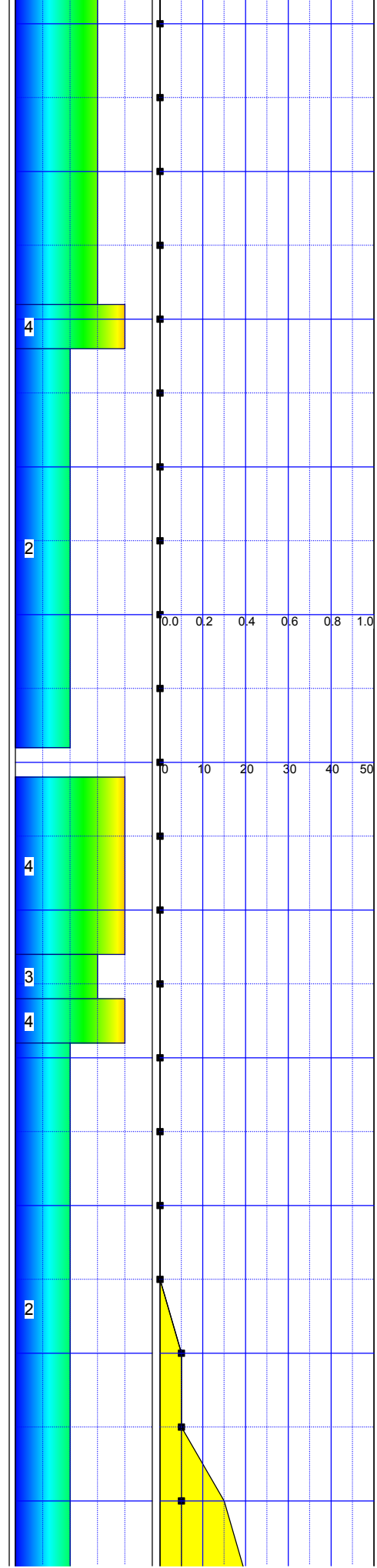
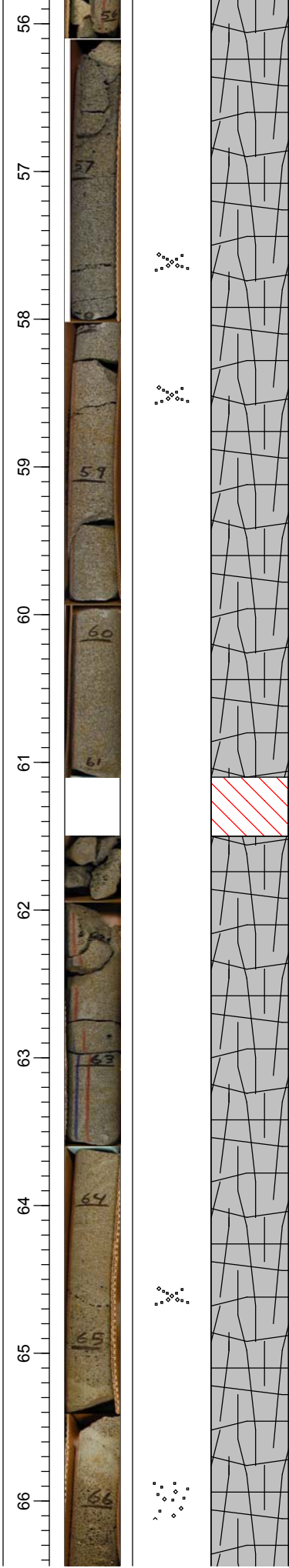


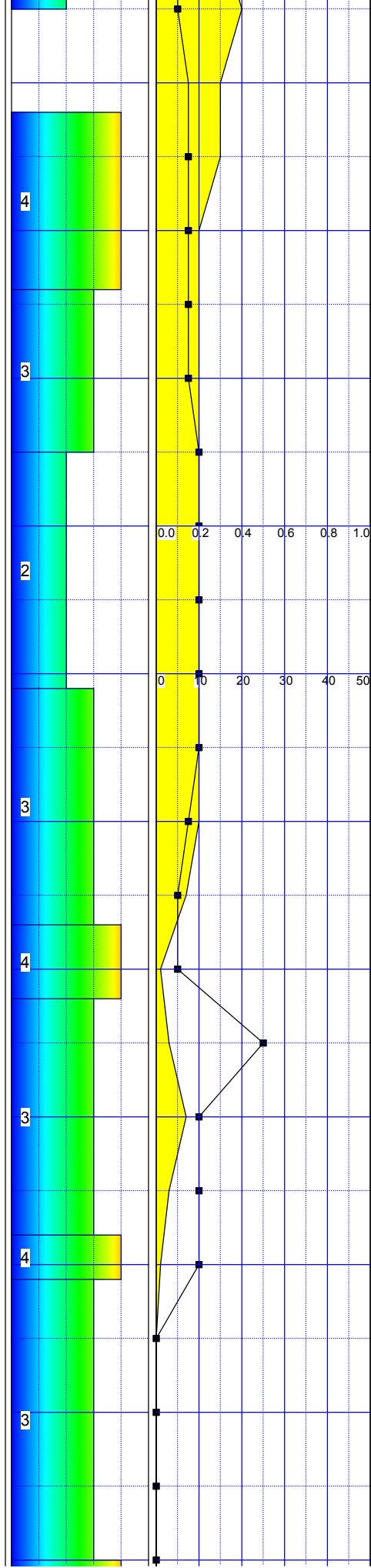
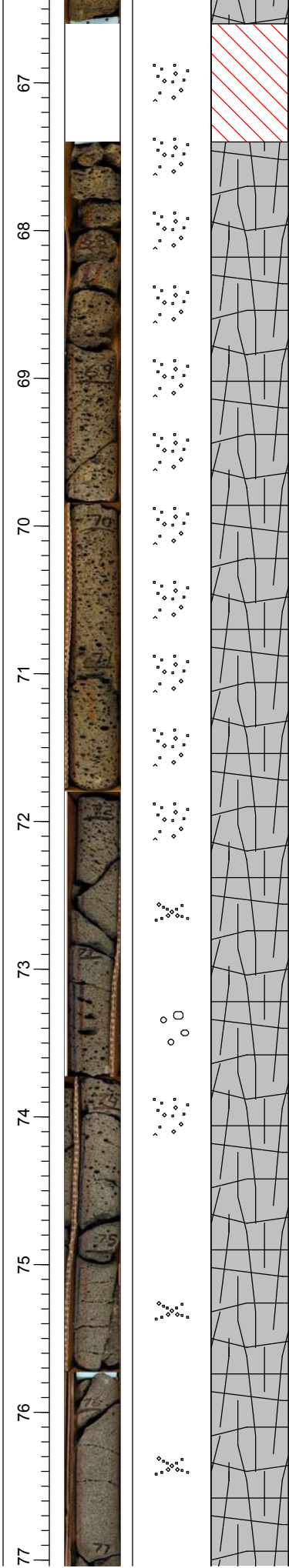
Handwritten labels and symbols: 25, 26, 27, 28, 29, 30, 31, 32, 34, and a series of small, stylized symbols (possibly representing a specific geological feature or measurement) repeated across the segments.













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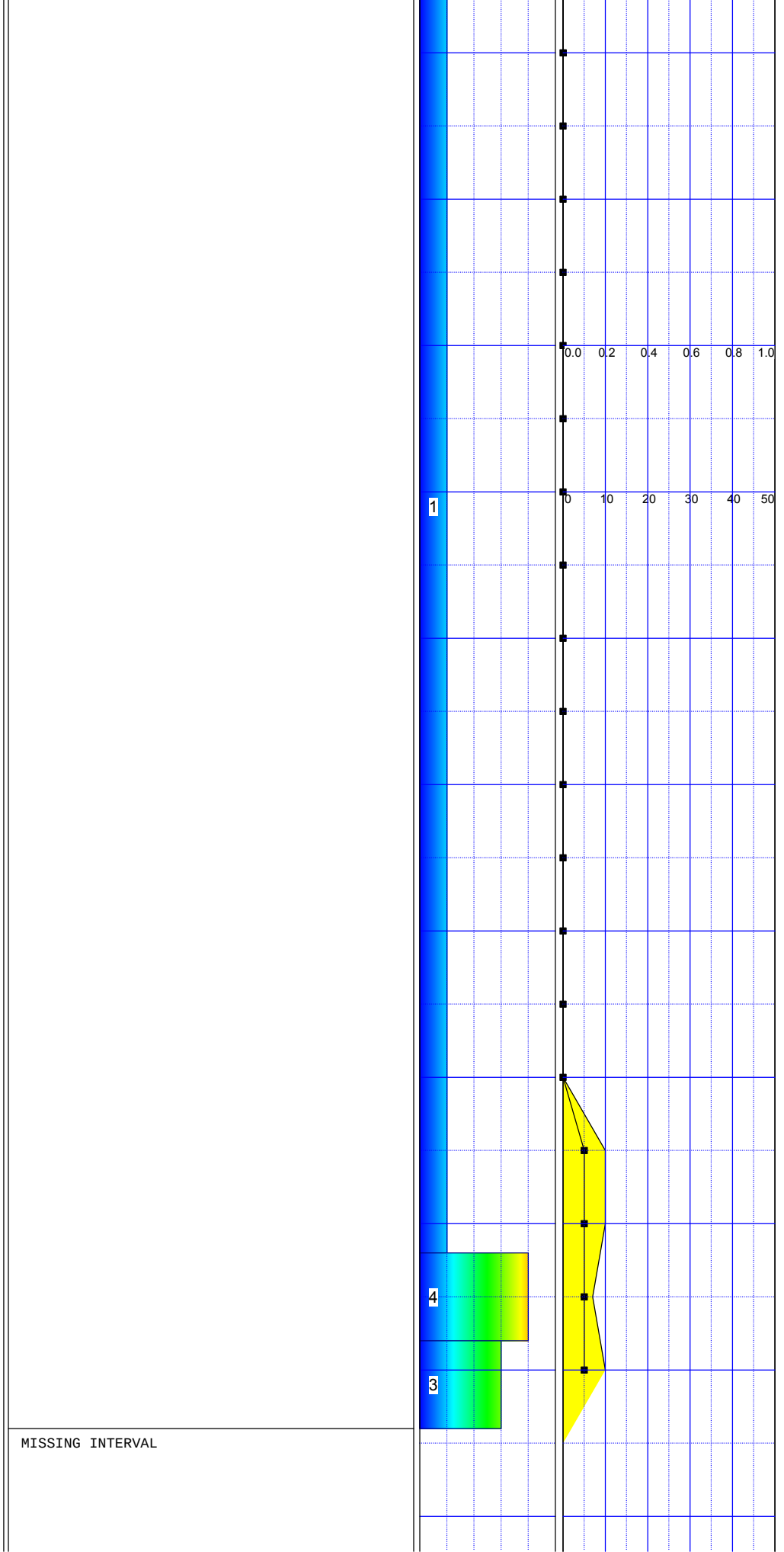
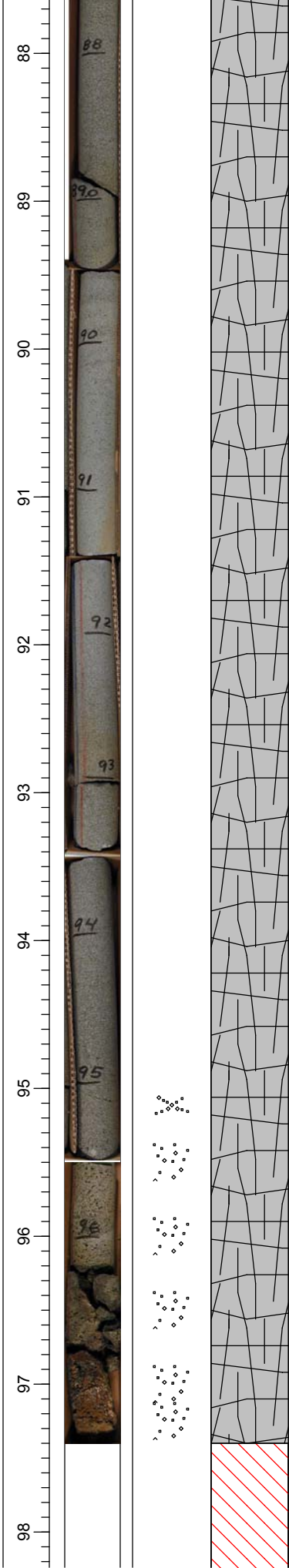
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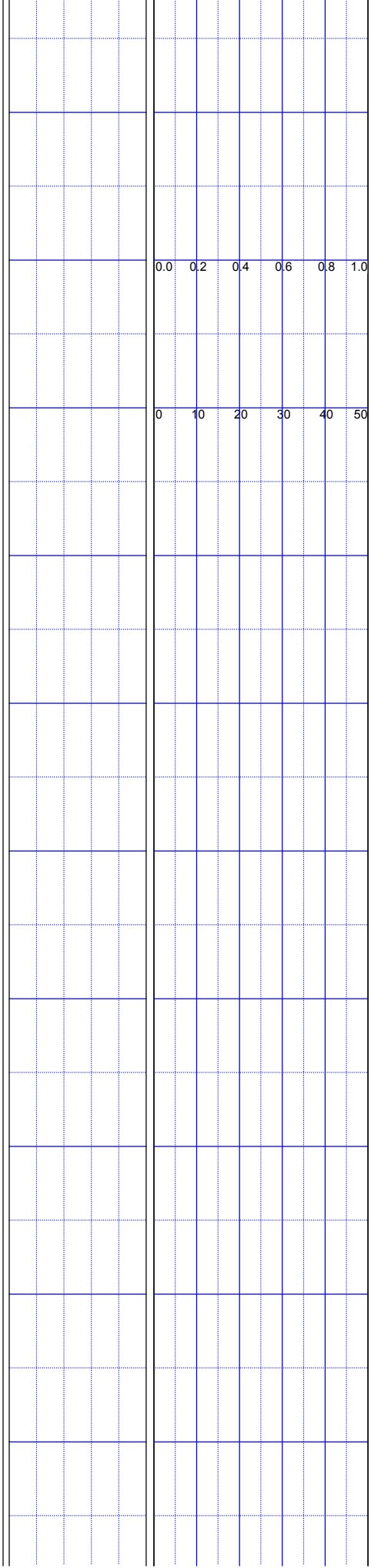
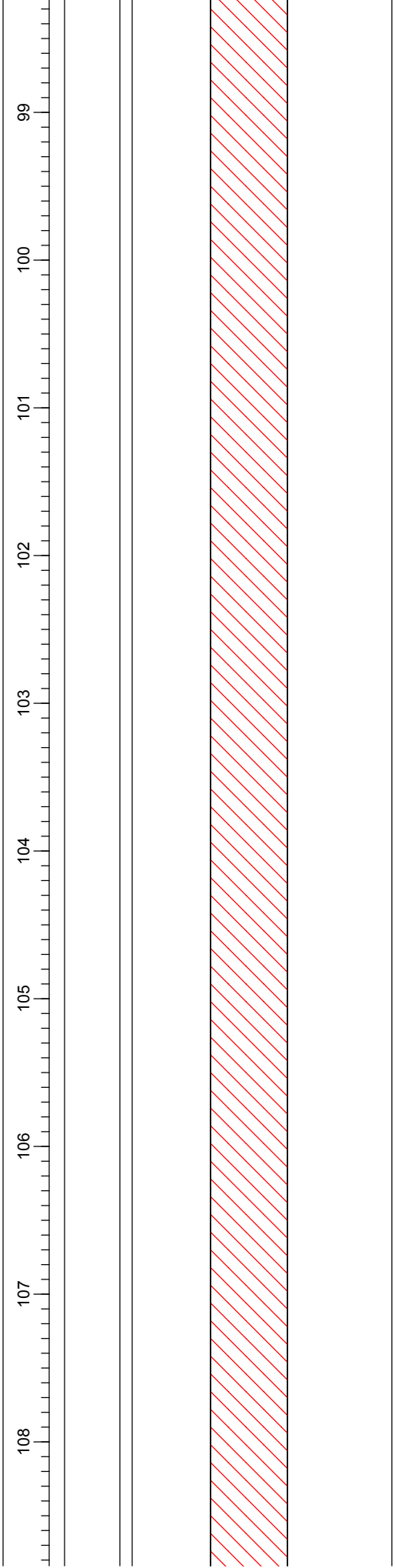
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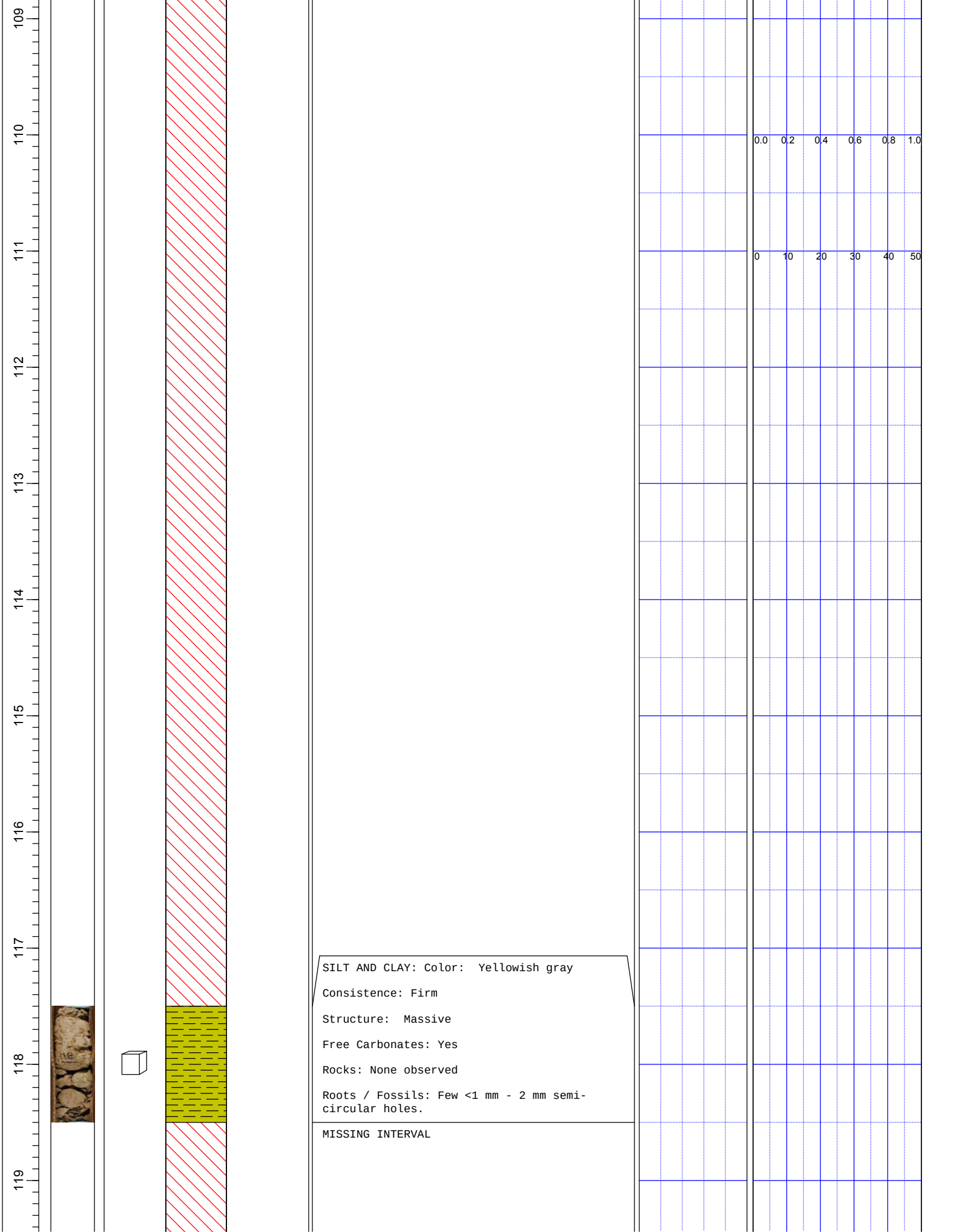
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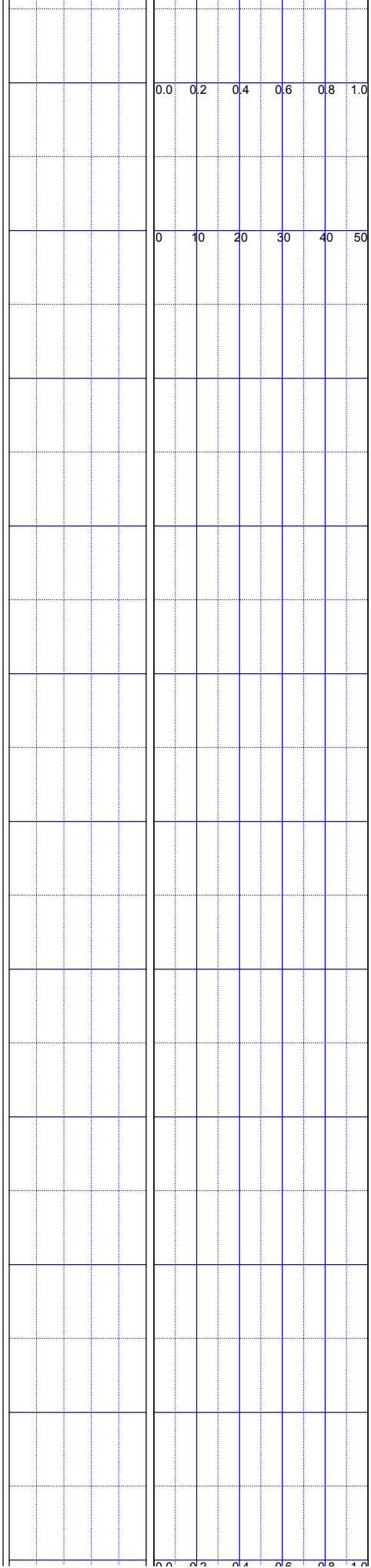
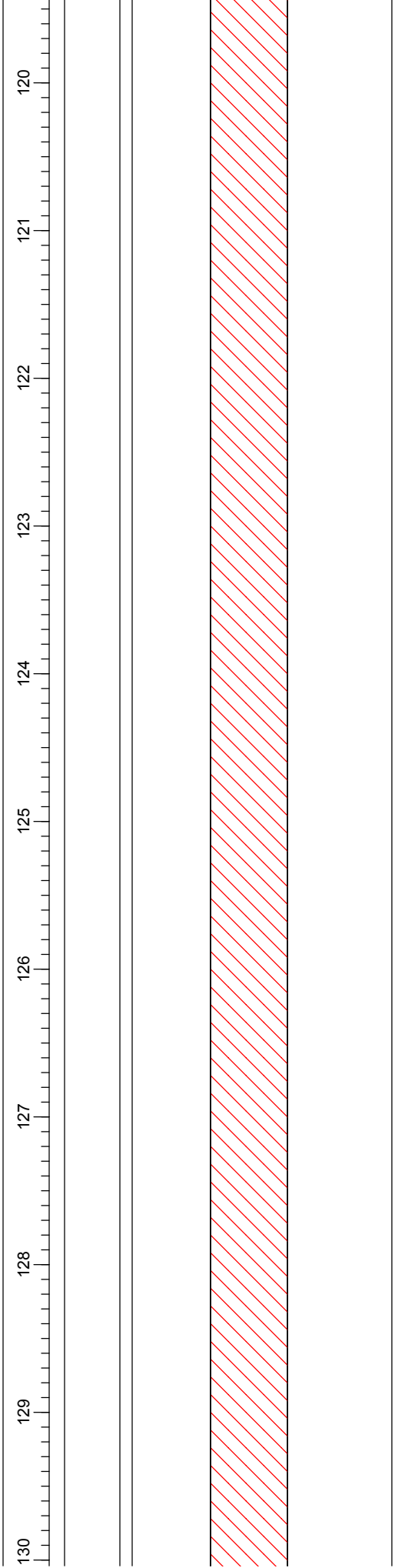
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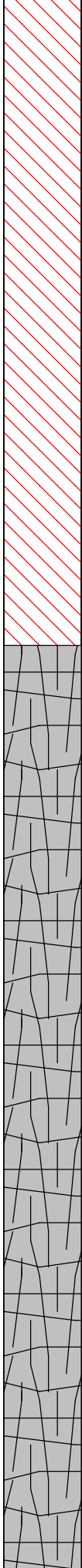
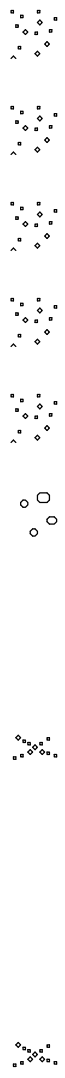








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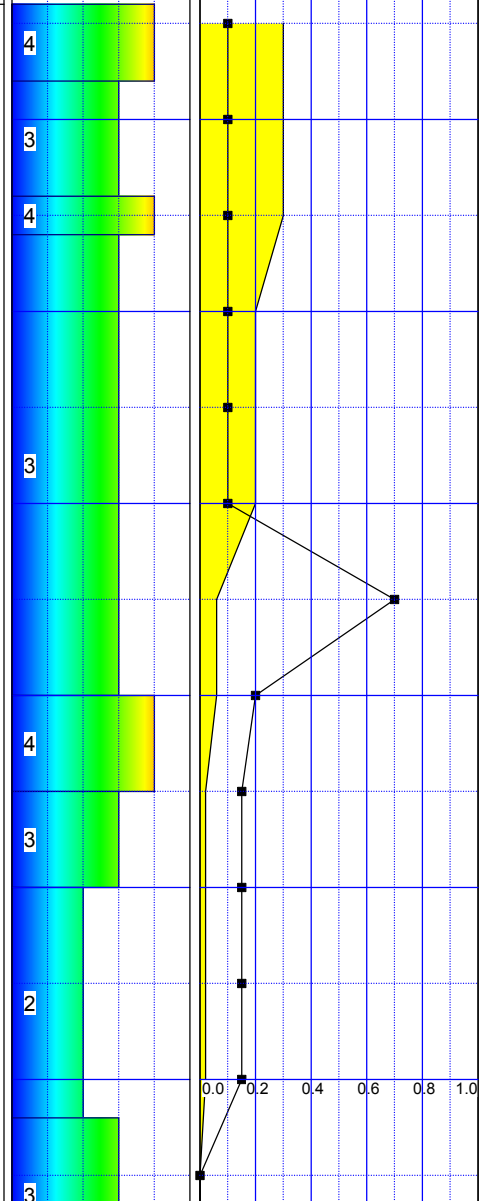
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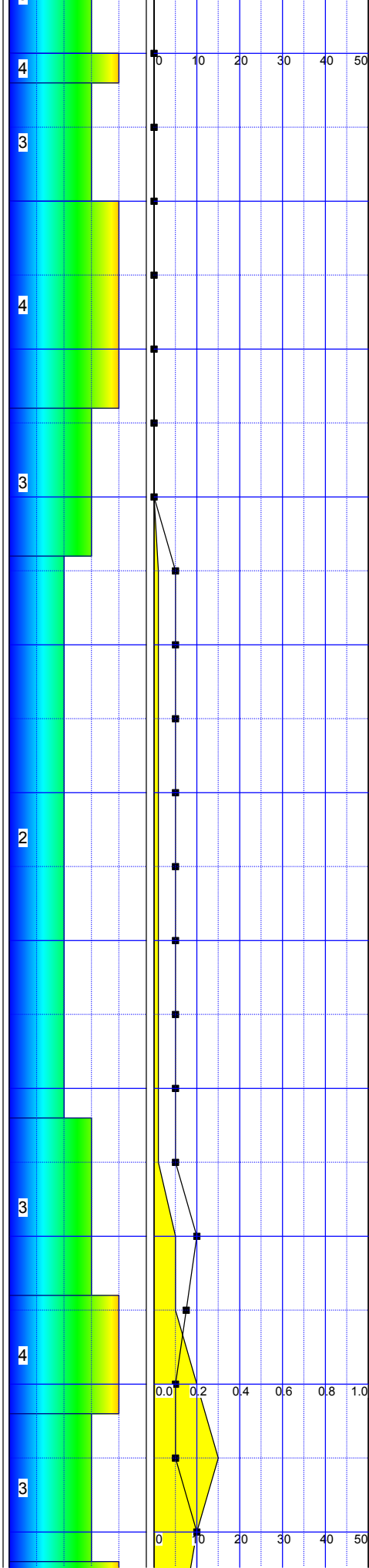
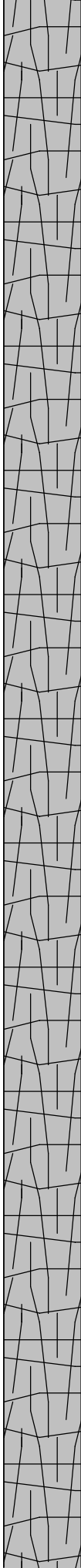
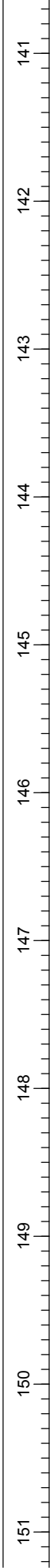
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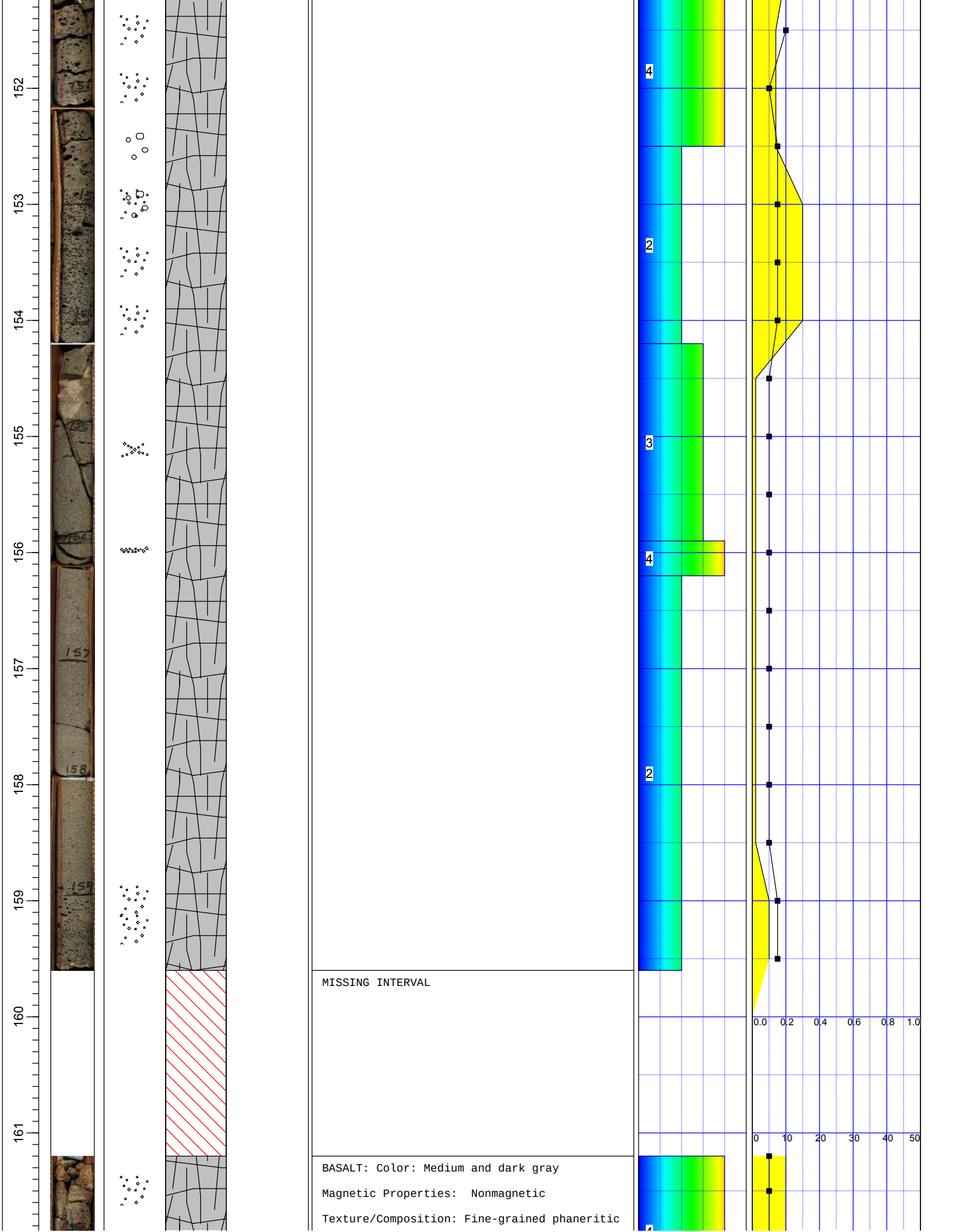
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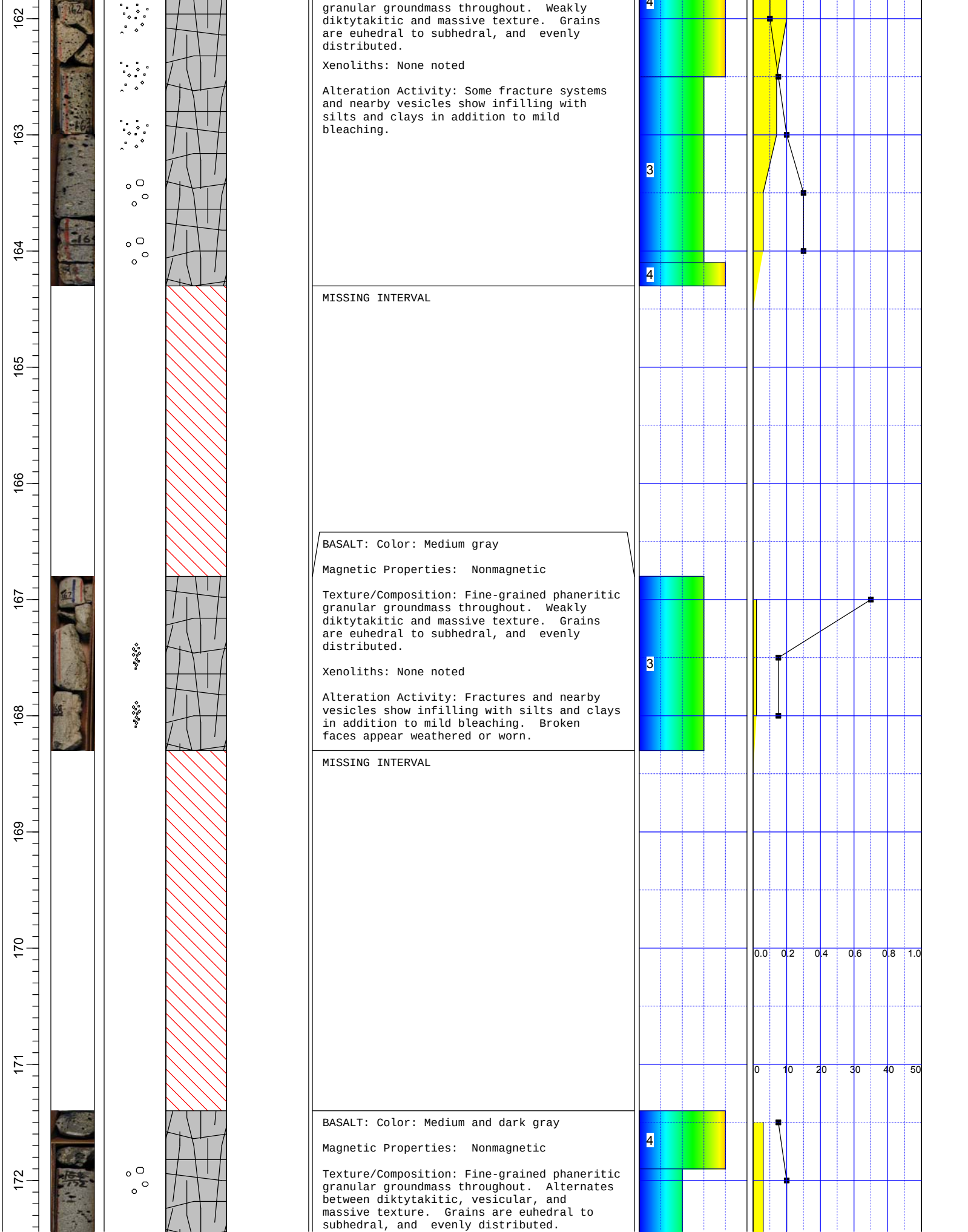
Xenoliths: None noted

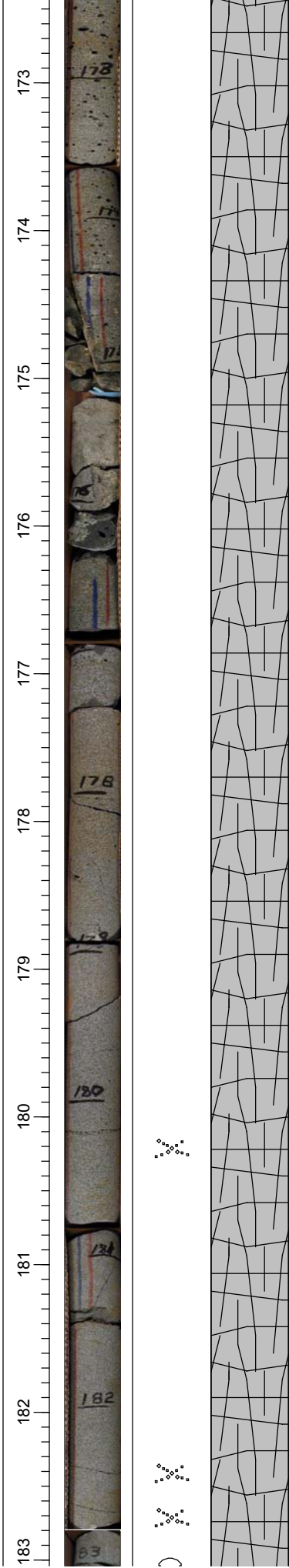
Alteration Activity: Some fracture systems and nearby vesicles show infilling with silts and clays in addition to mild bleaching.





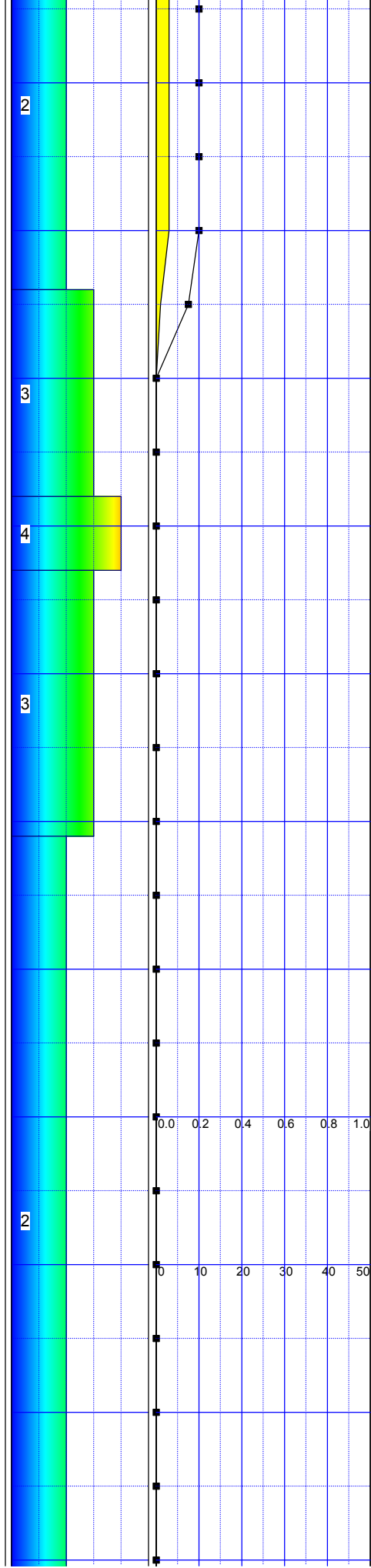






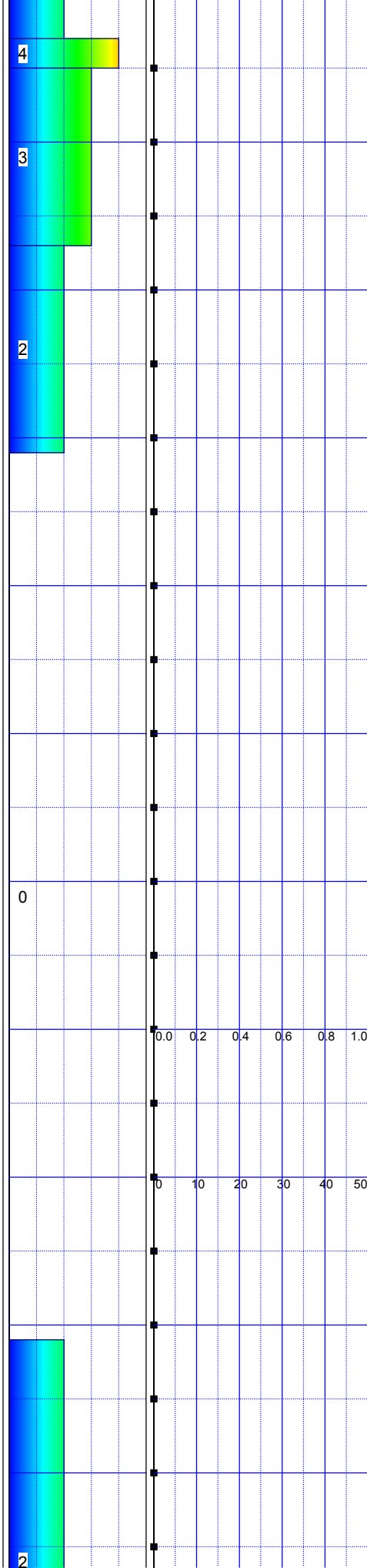
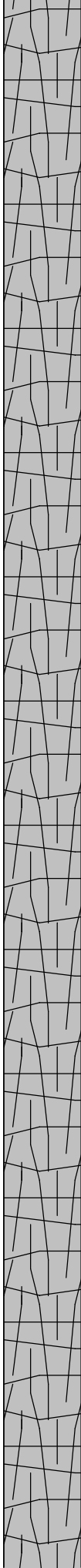
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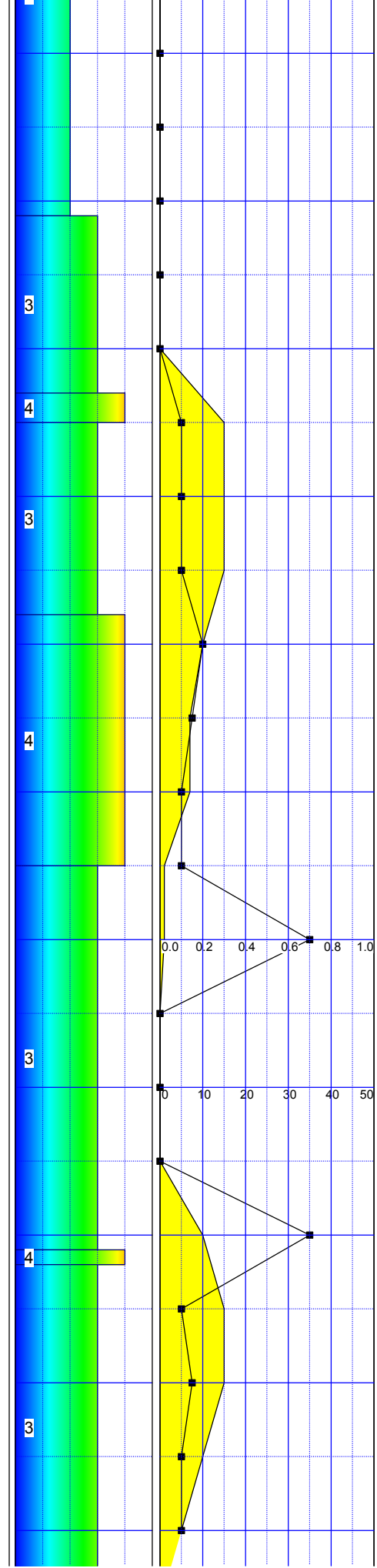
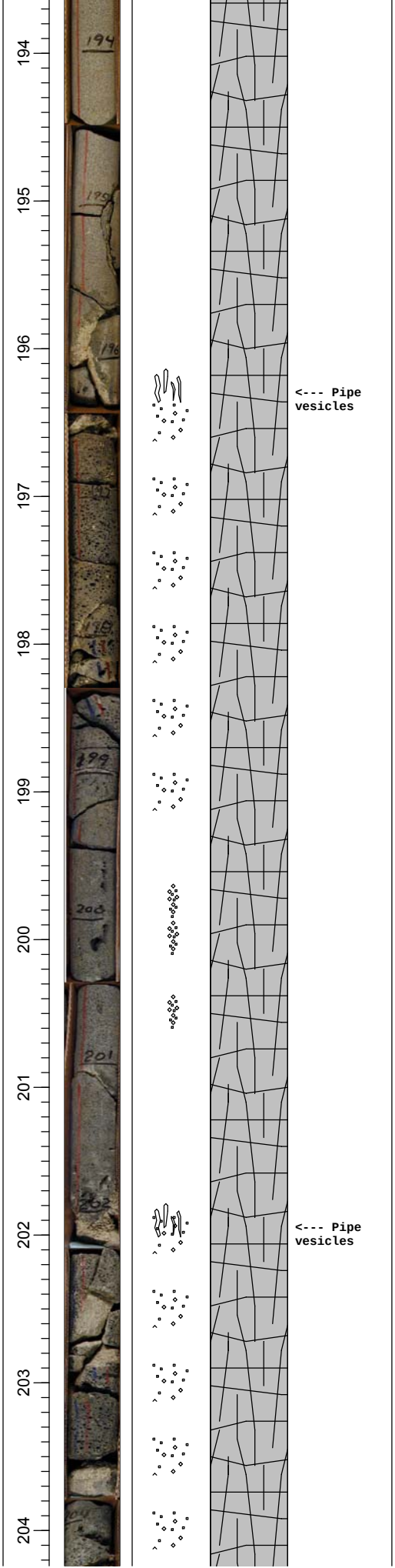
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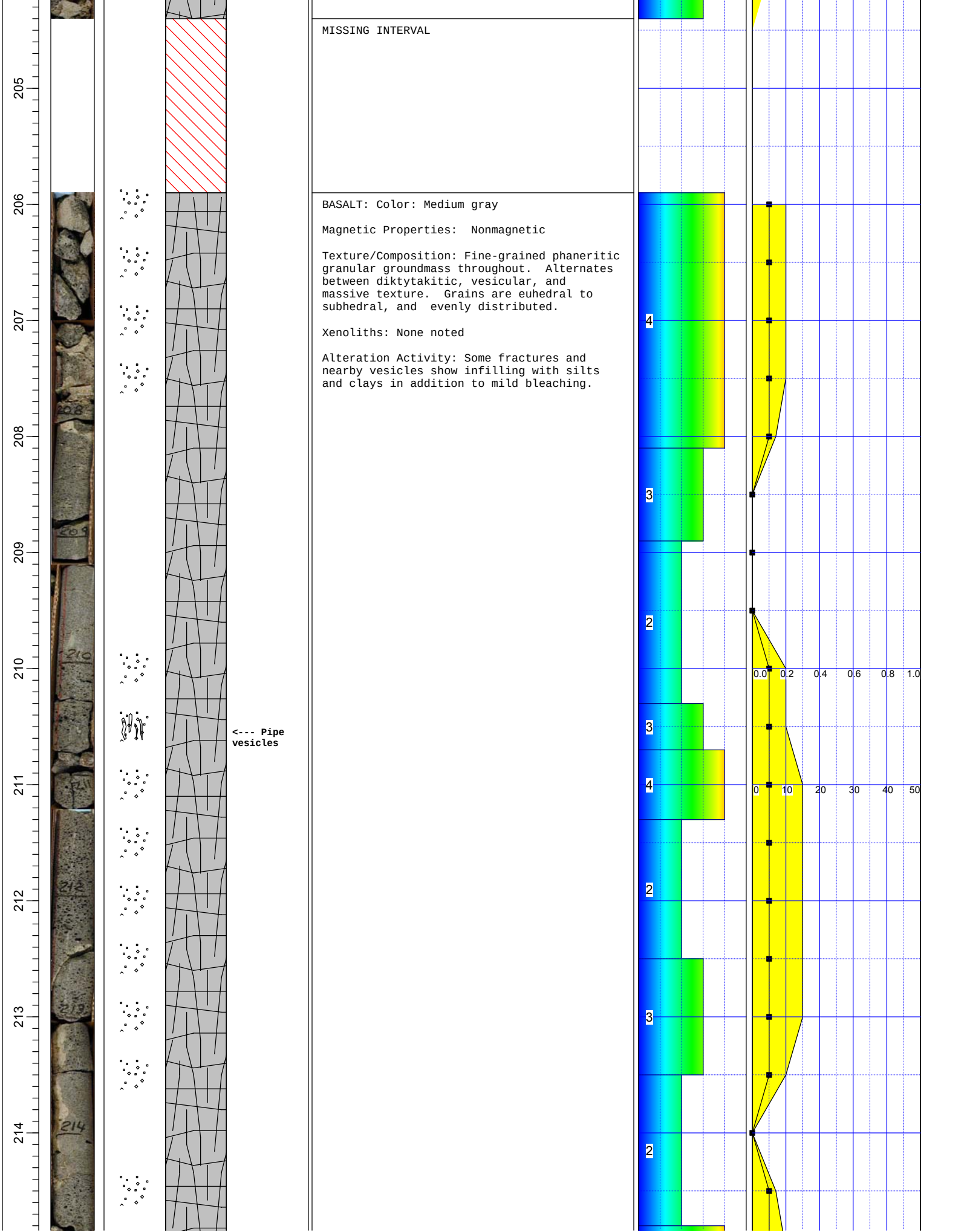


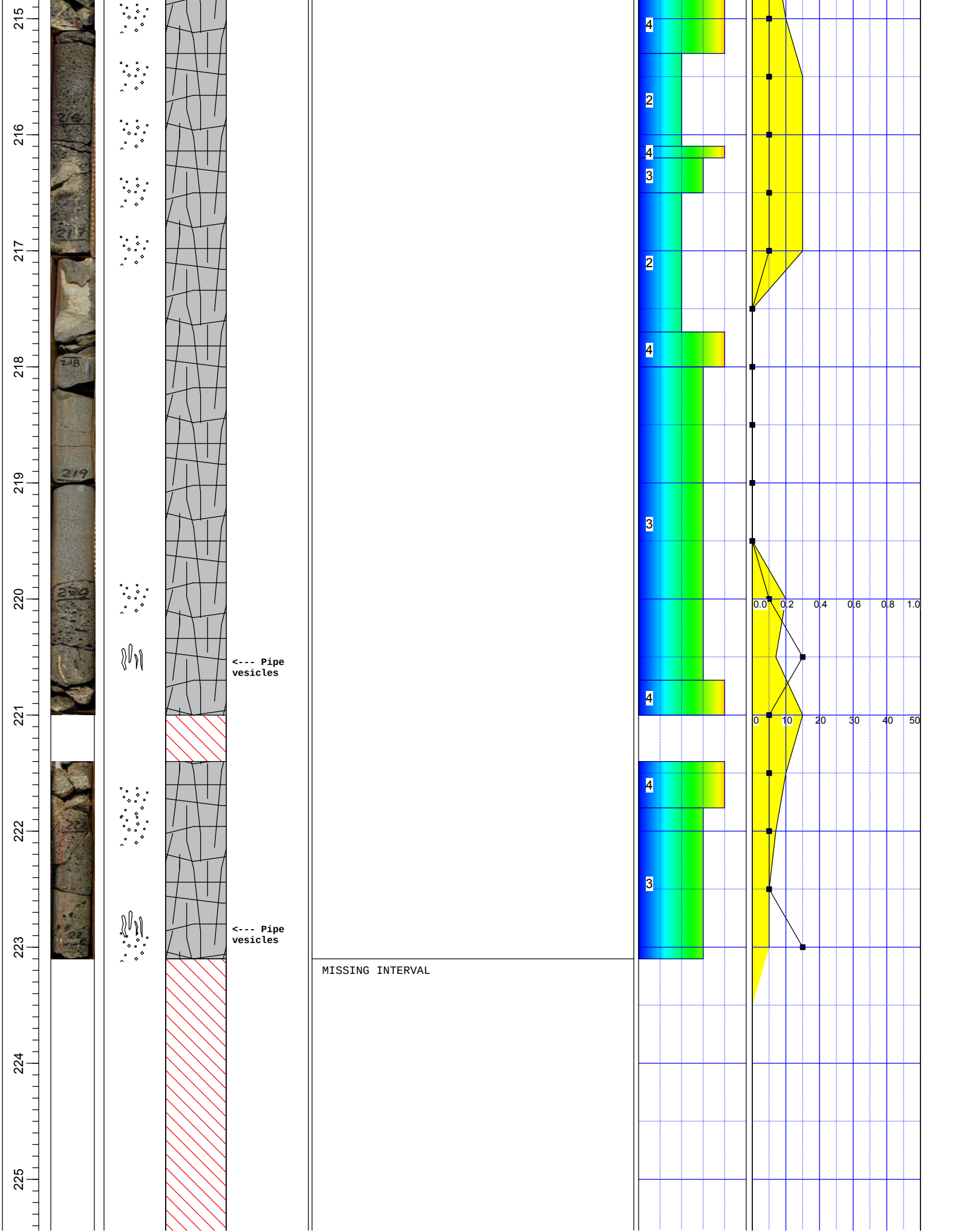


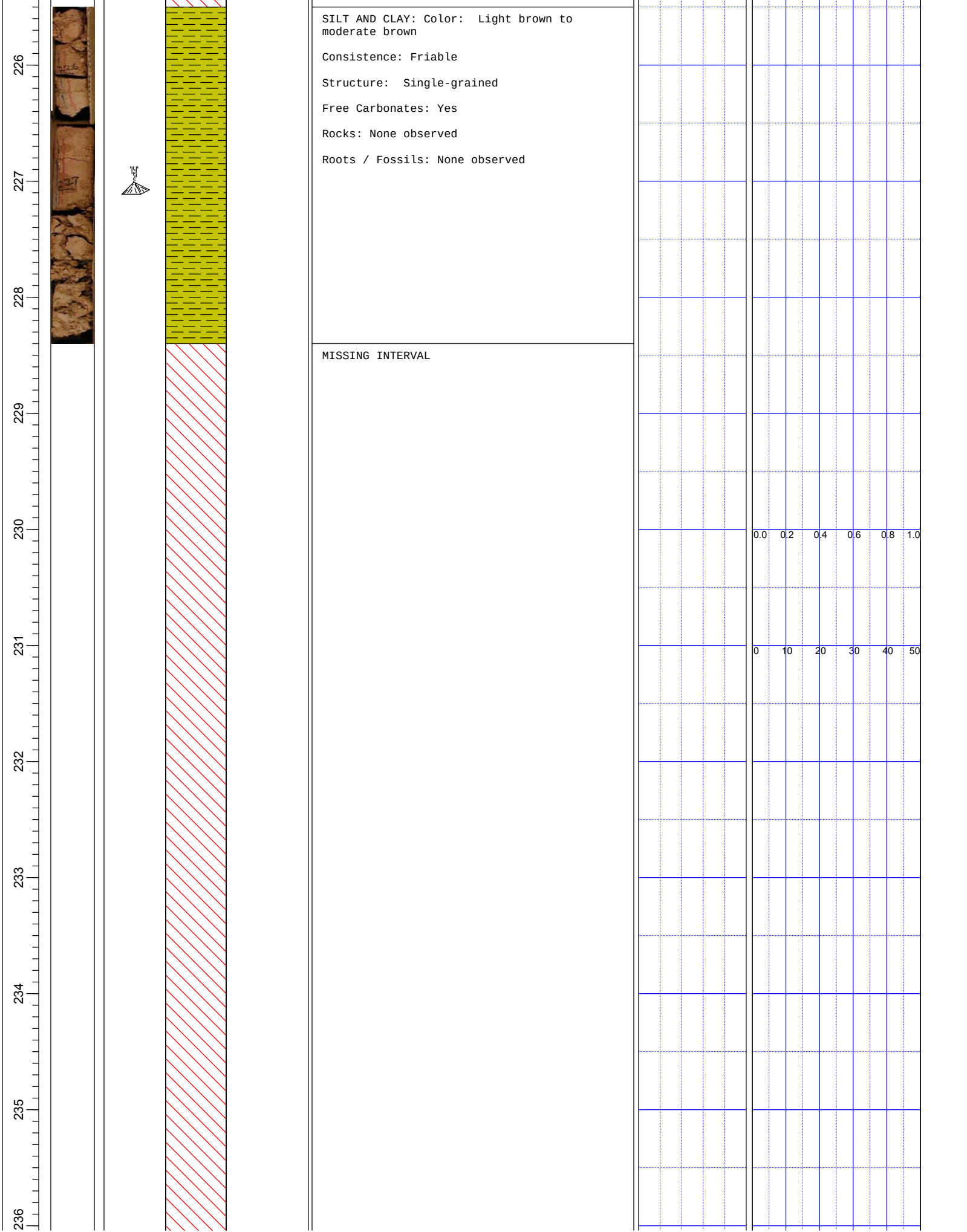
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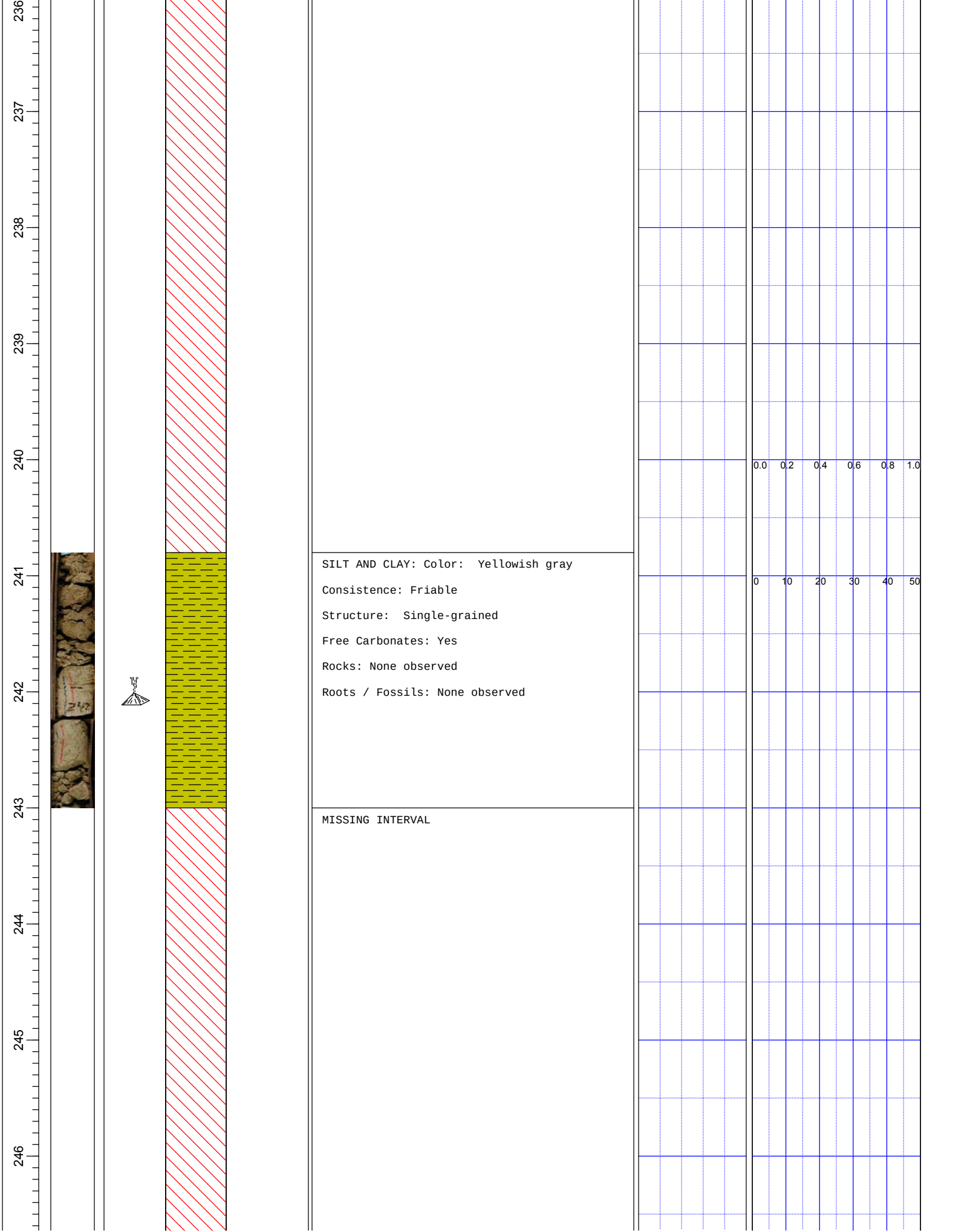


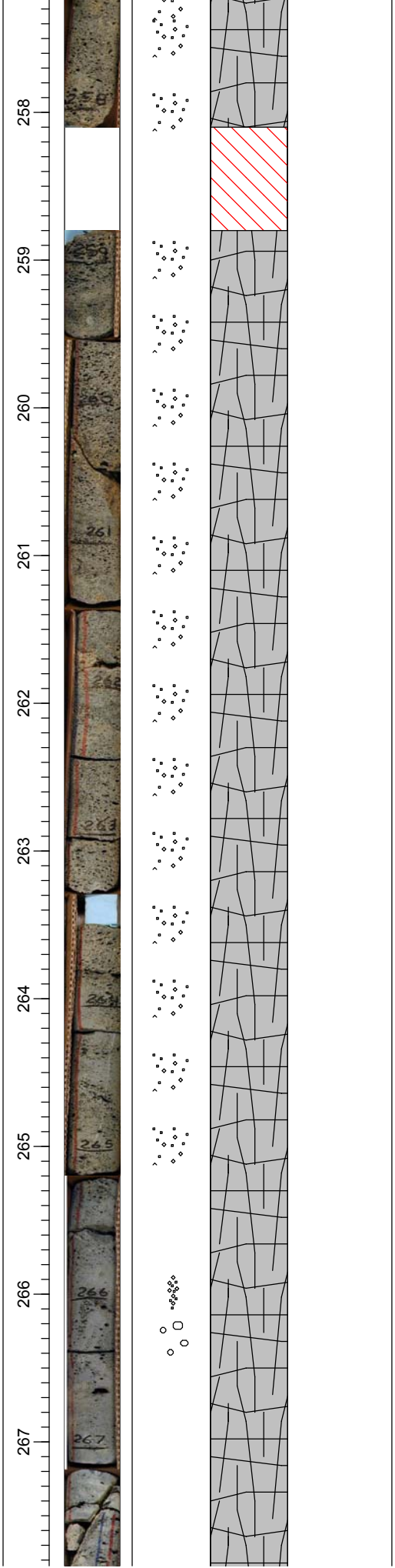






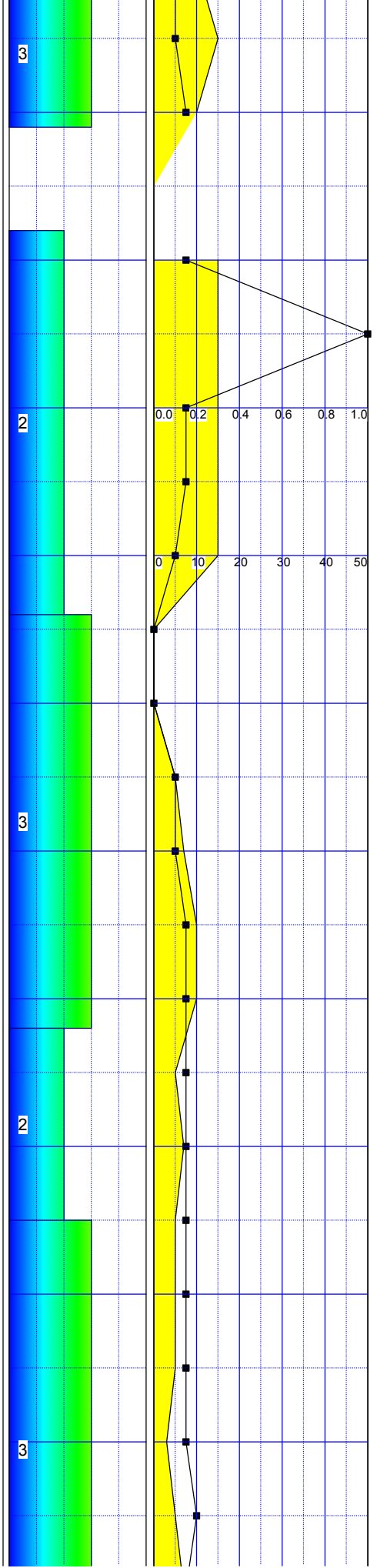


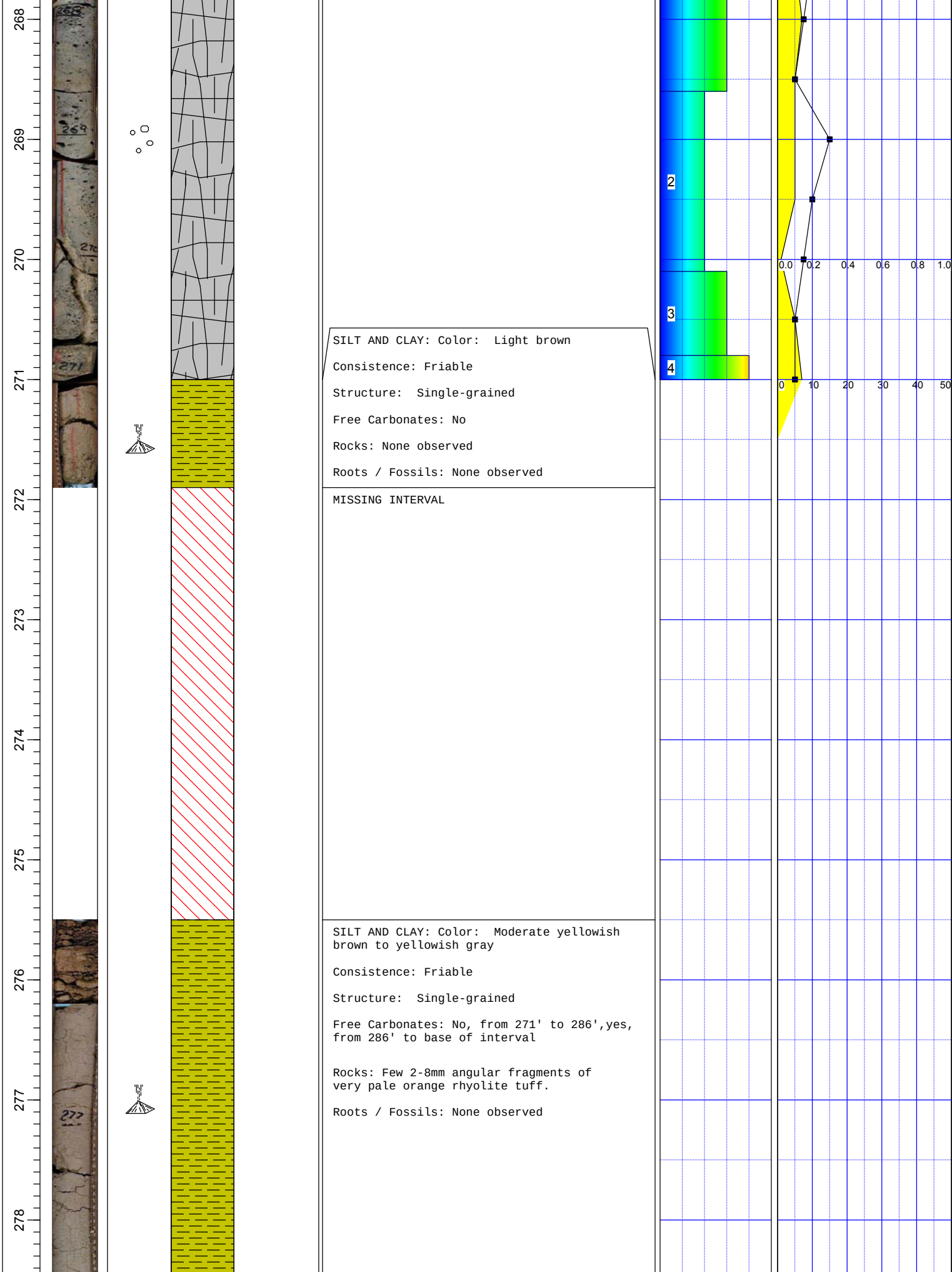


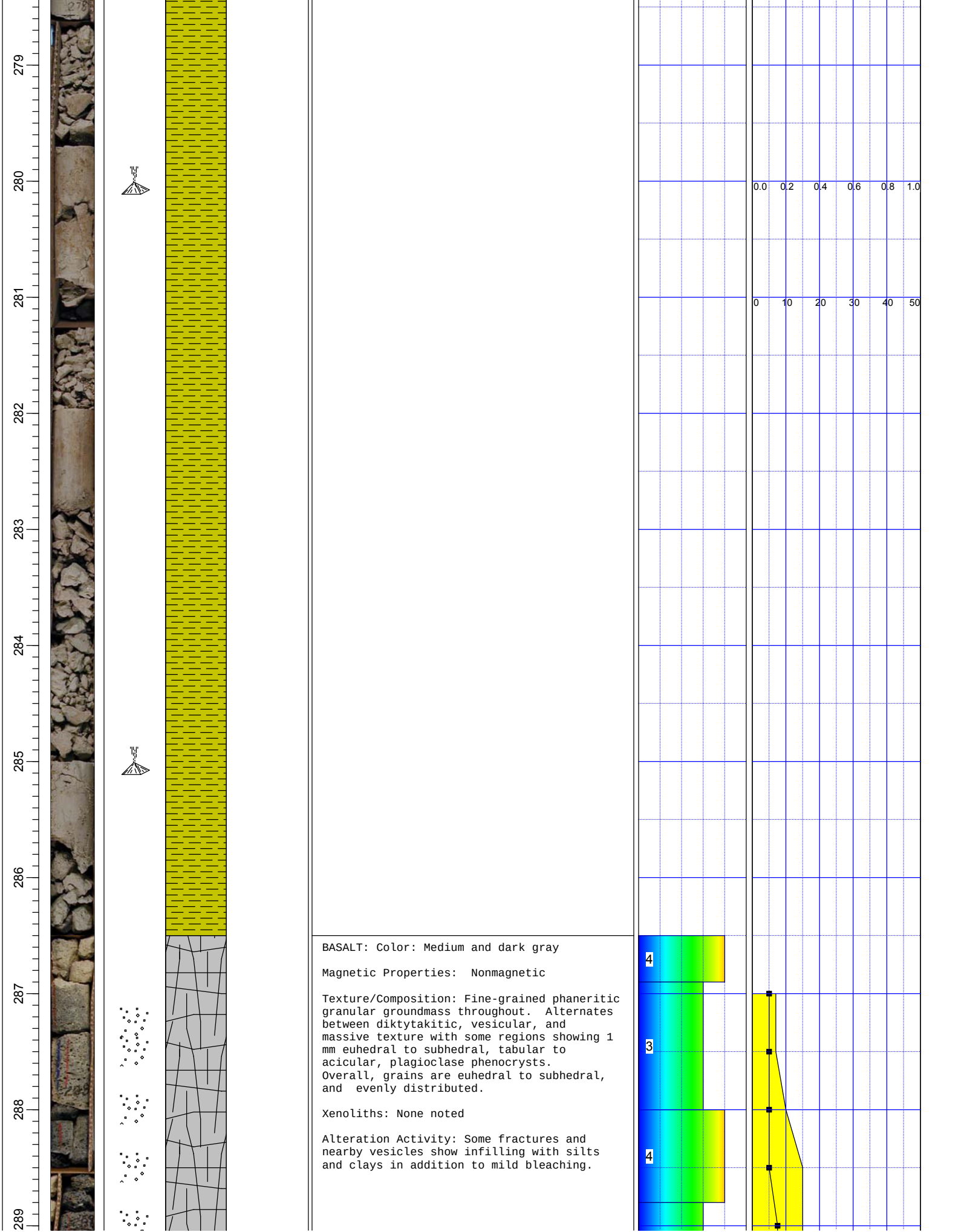


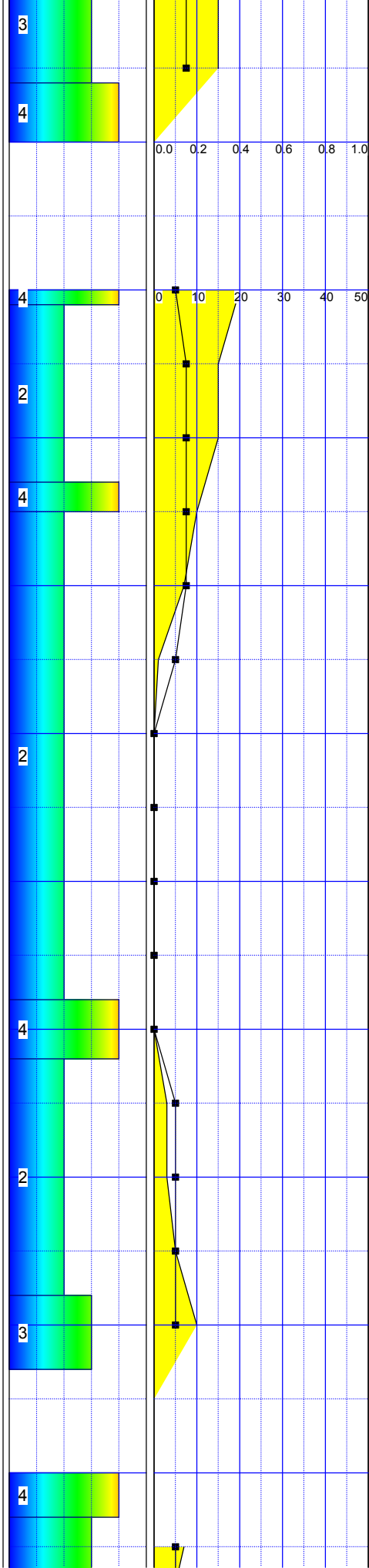
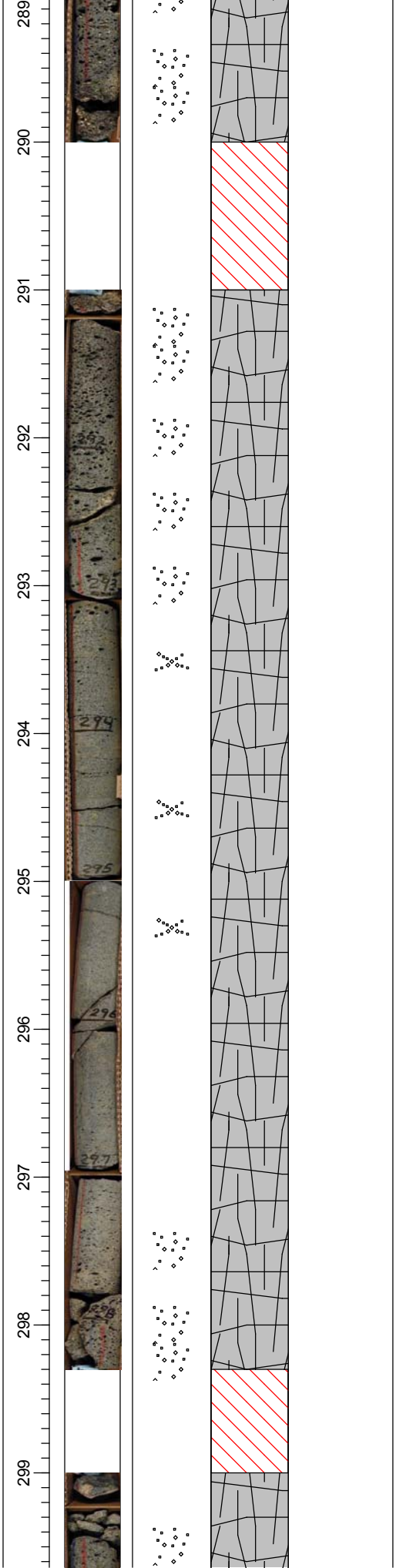
Xenoliths: None noted

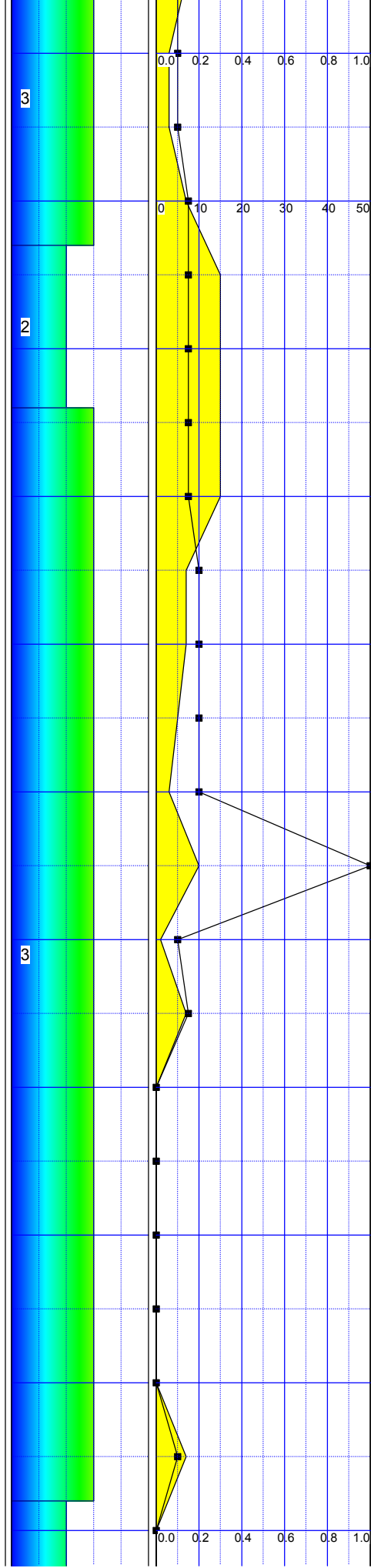
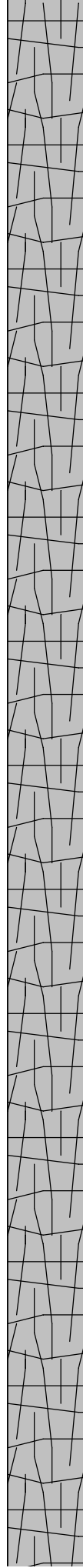
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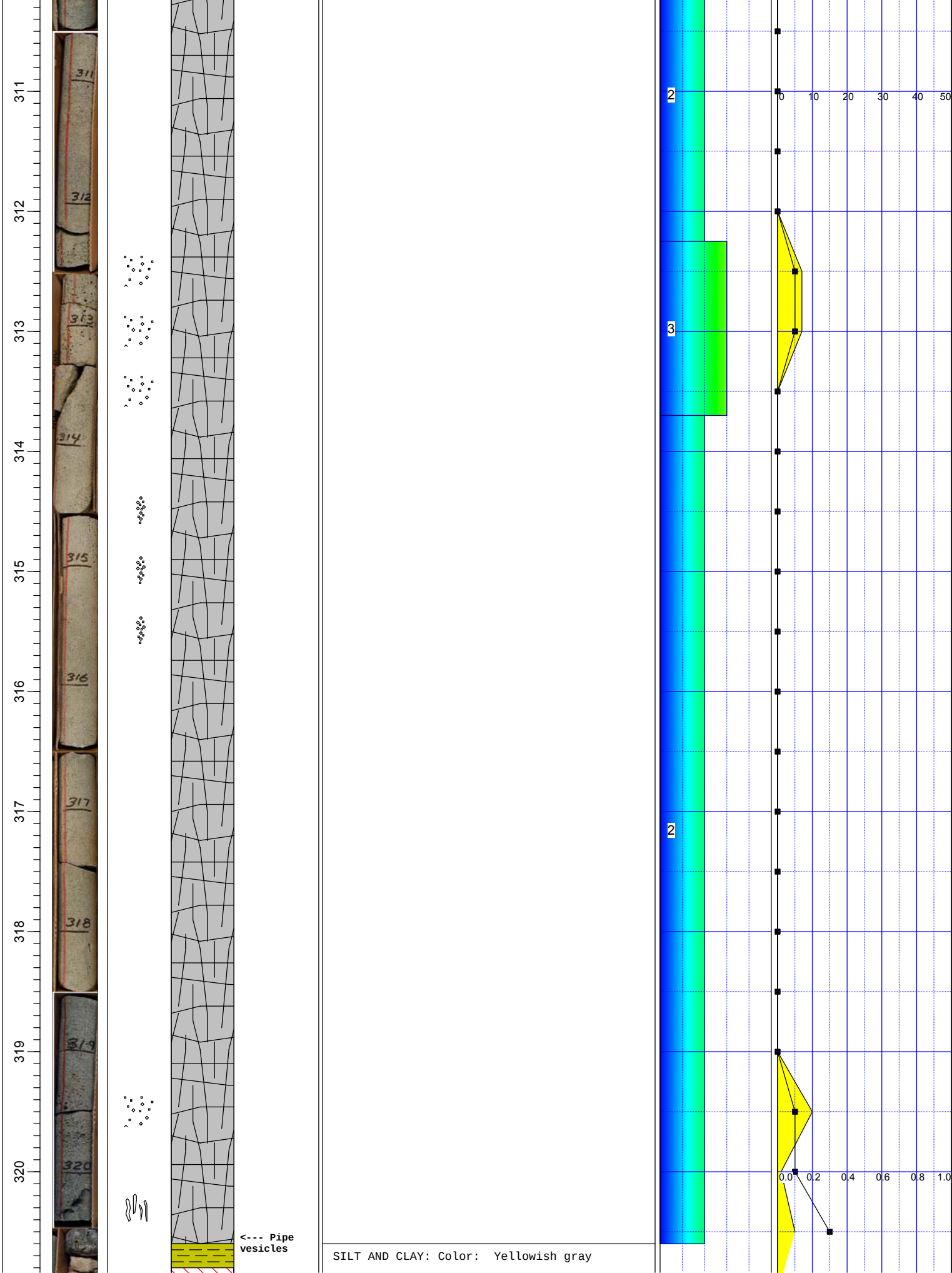


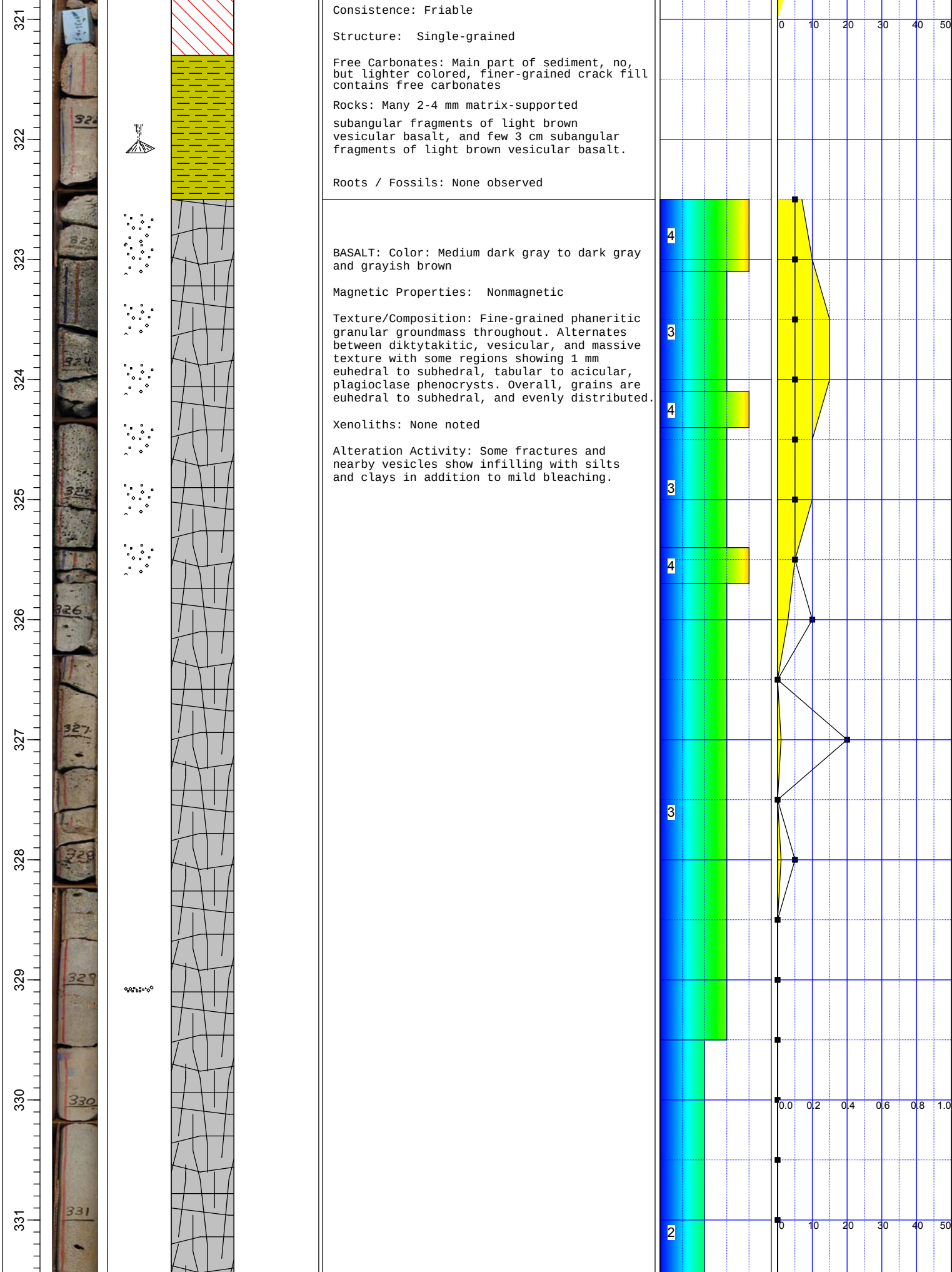


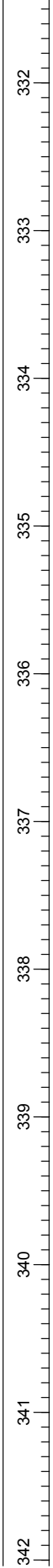




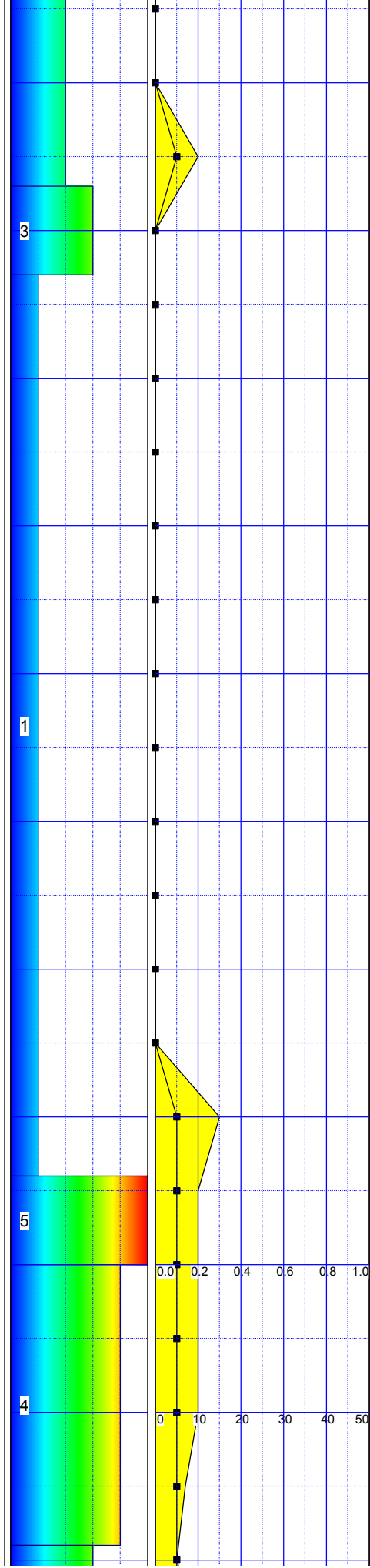
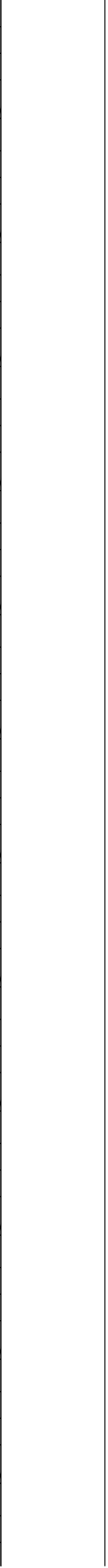
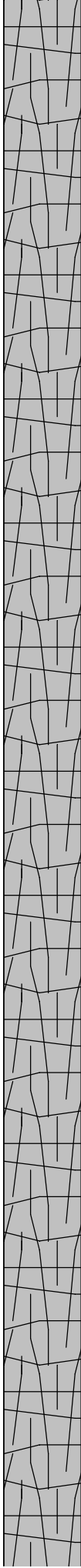


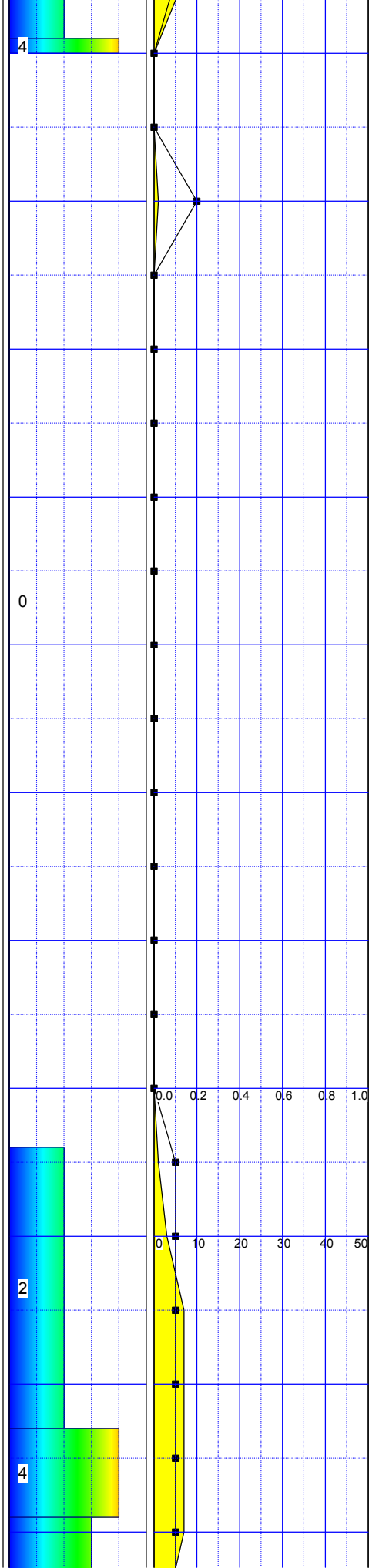
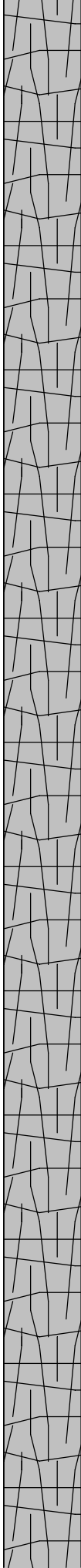
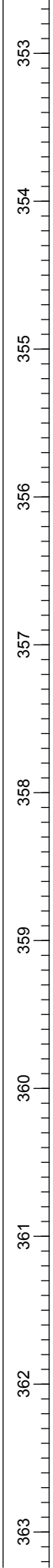


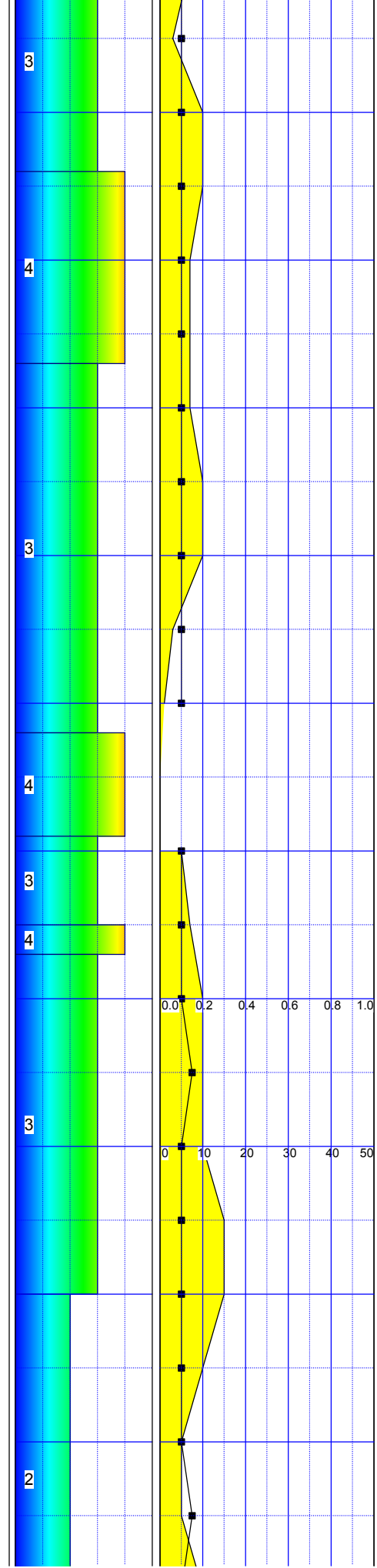
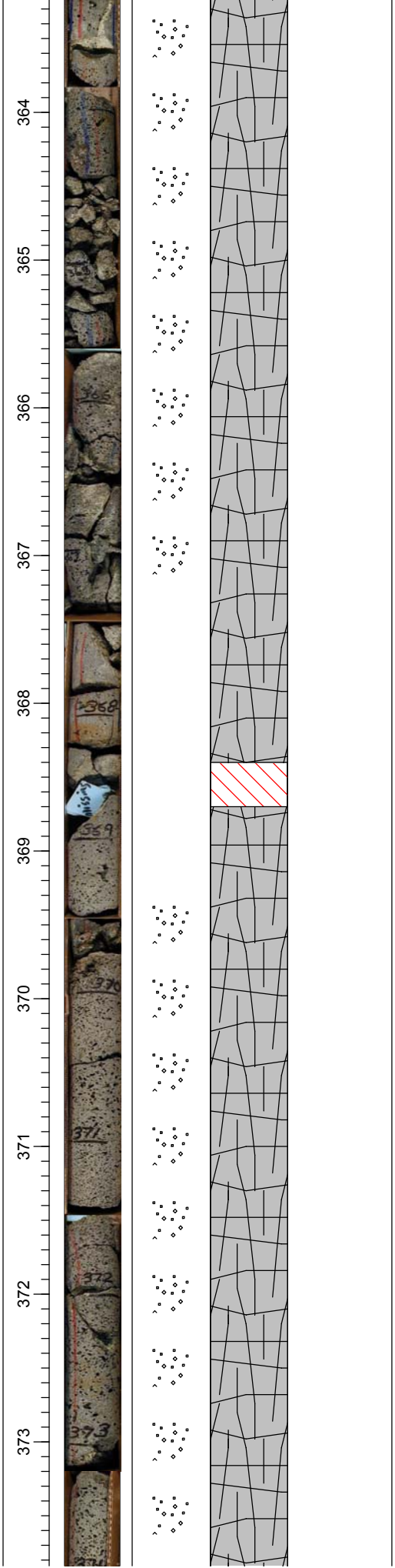


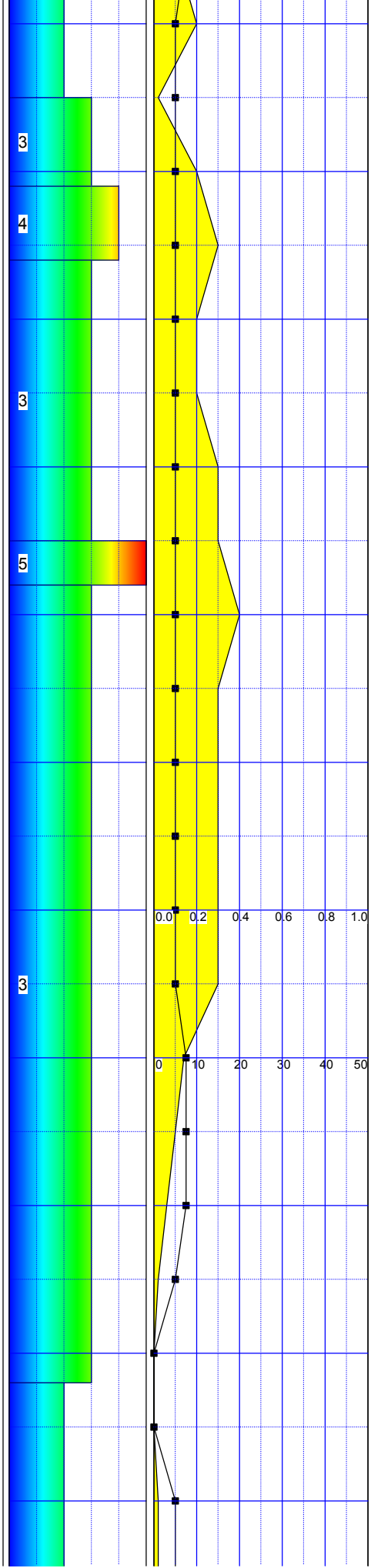
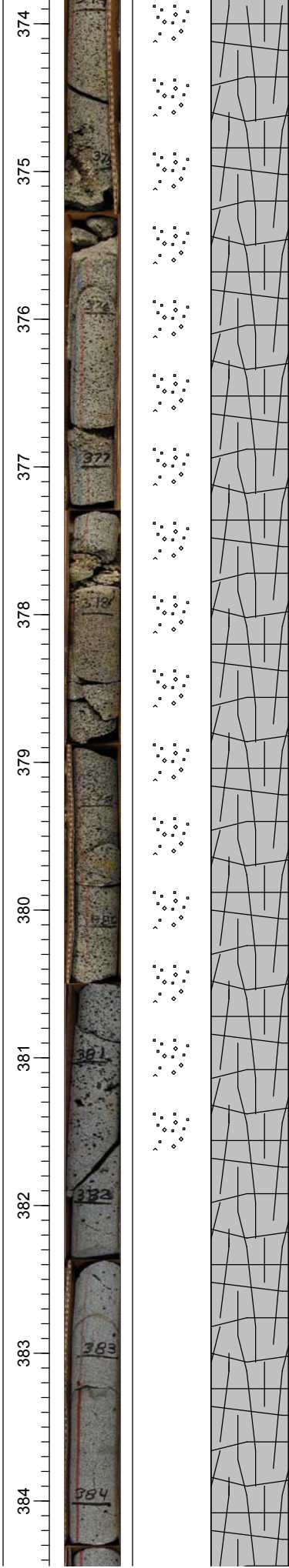


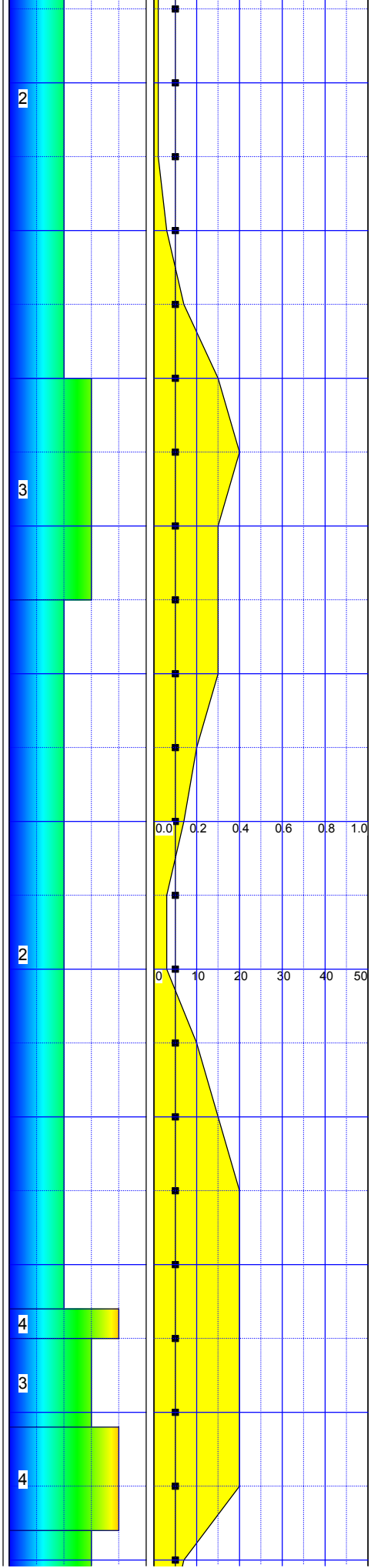
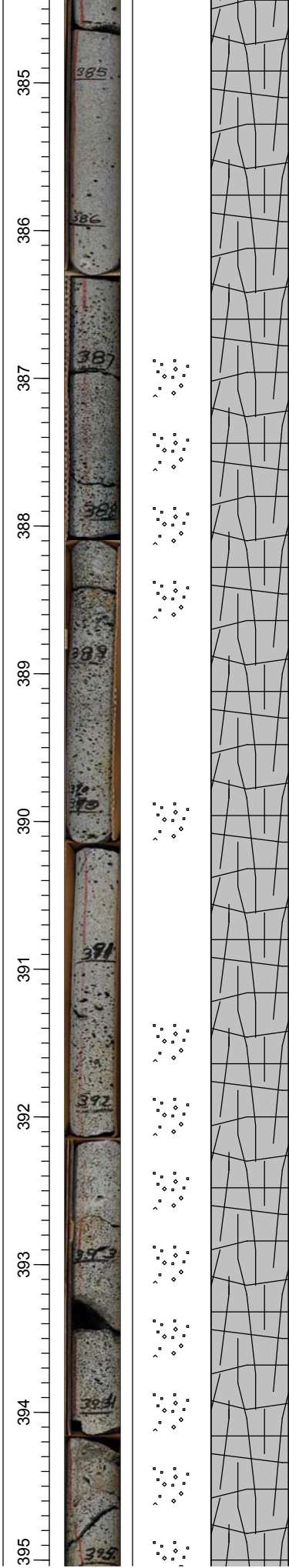
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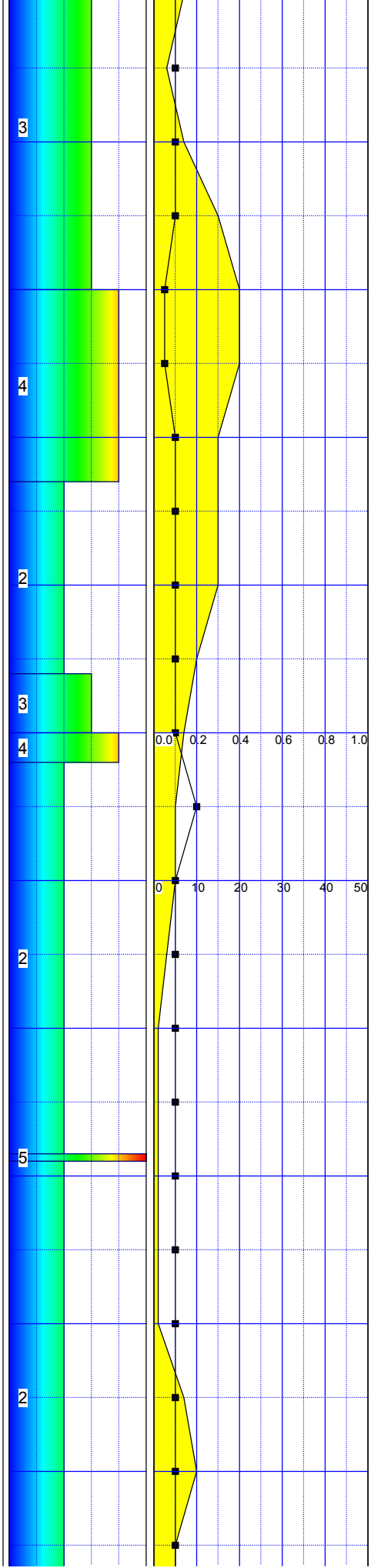
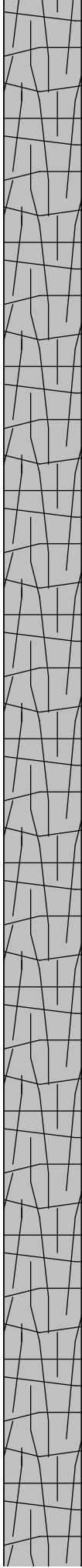
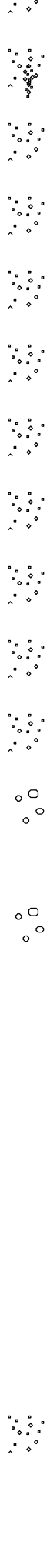


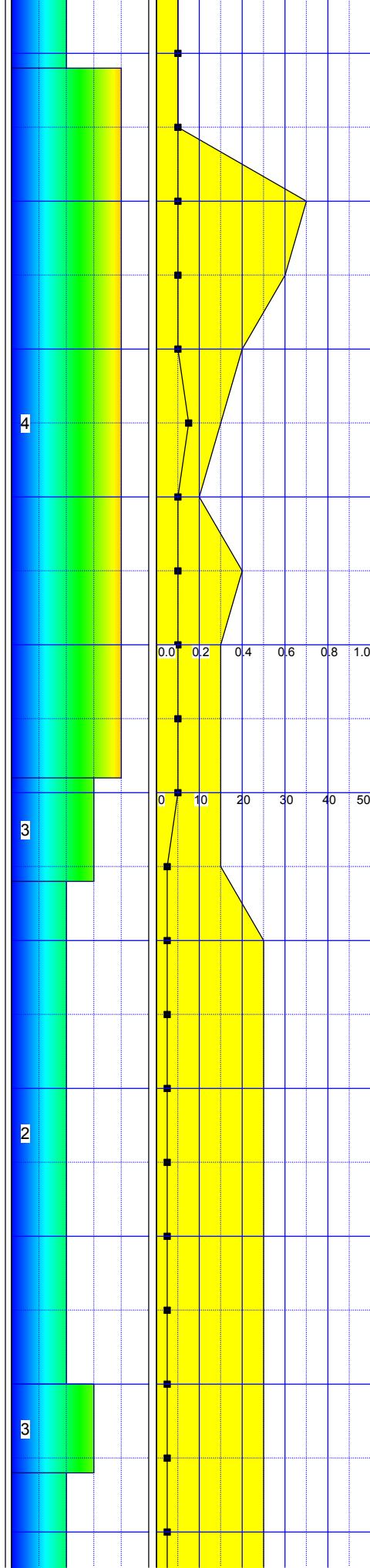
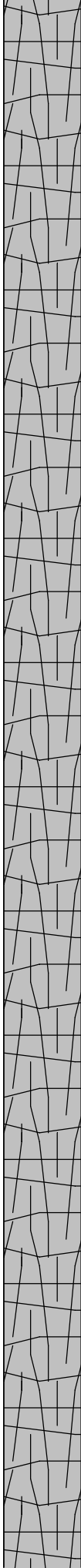
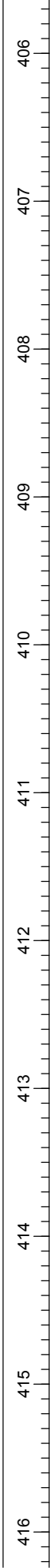


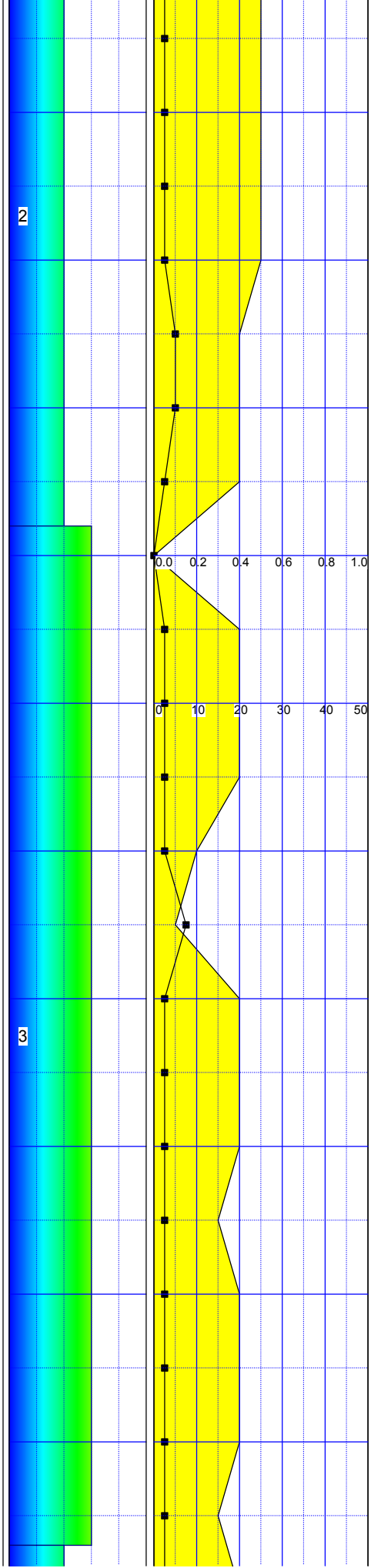
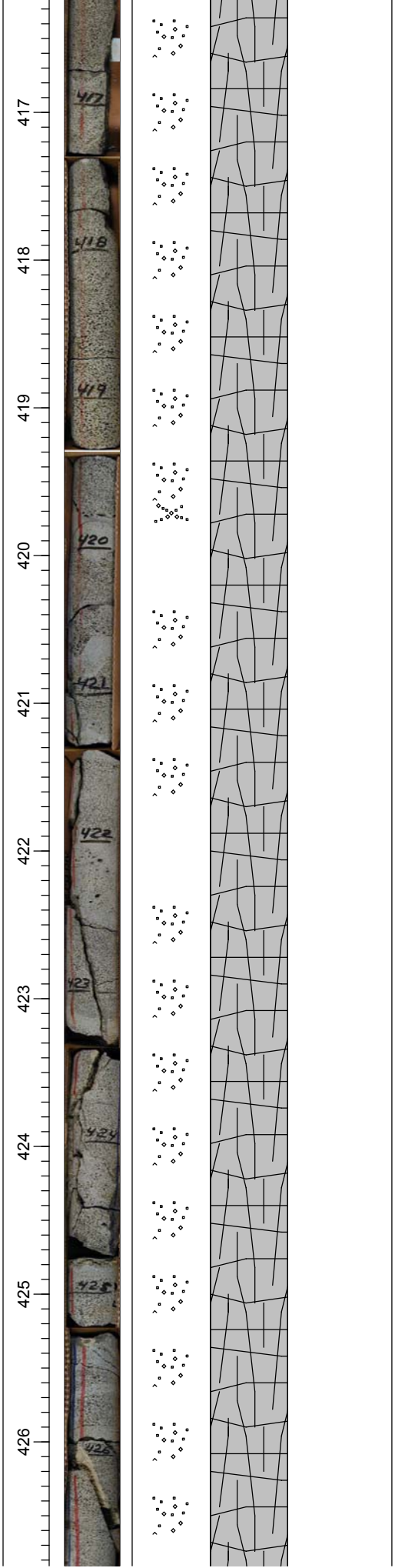


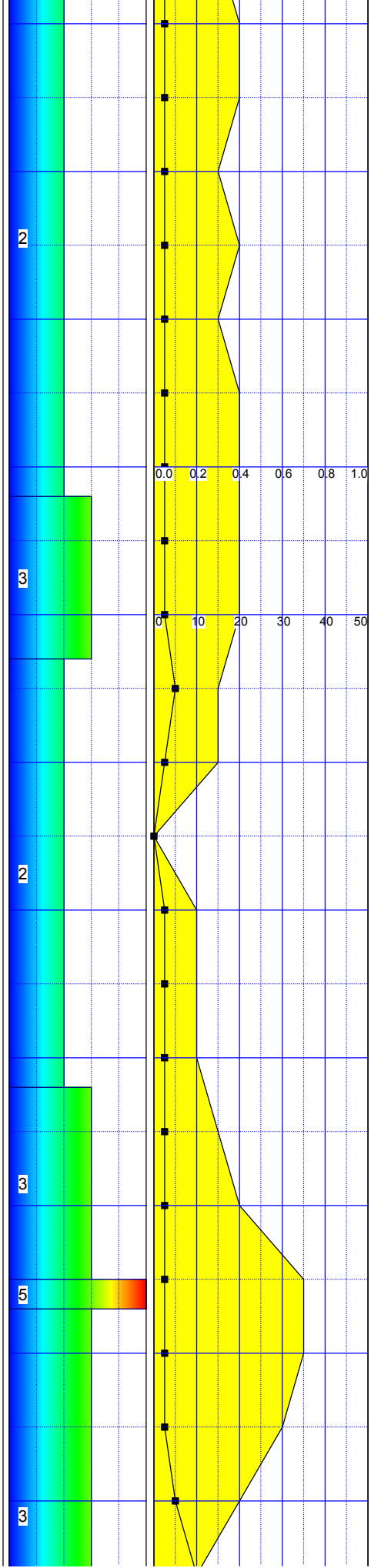
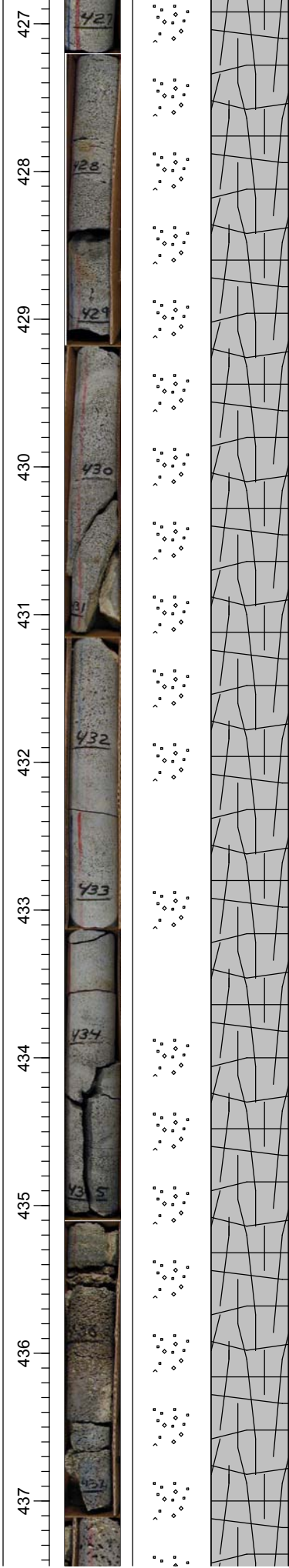


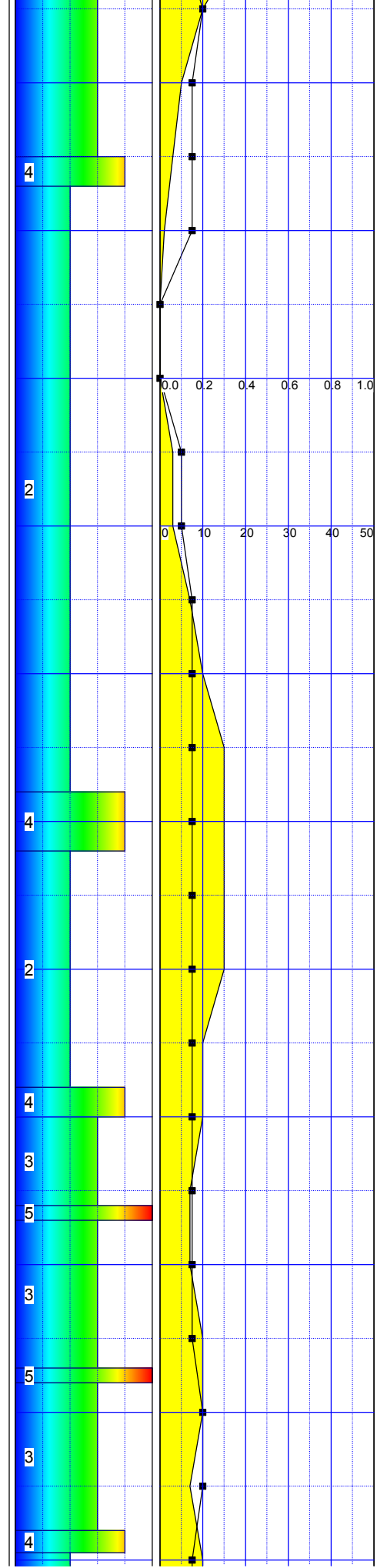
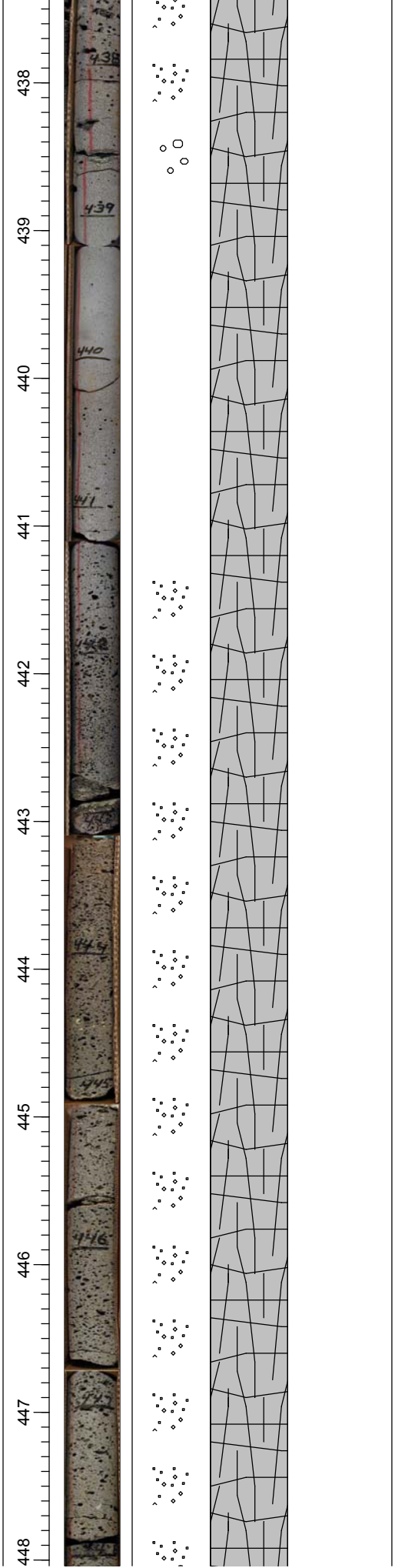


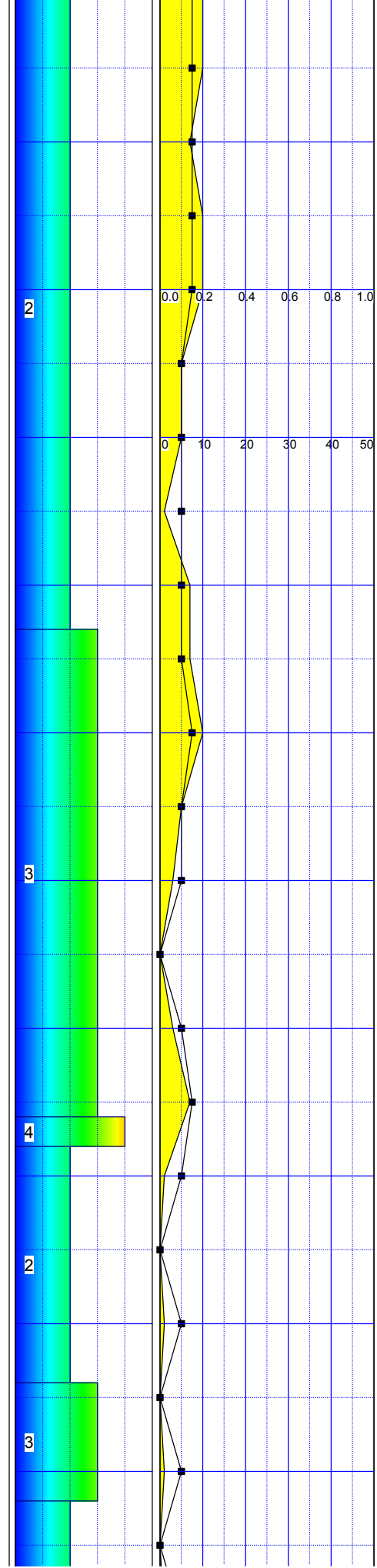
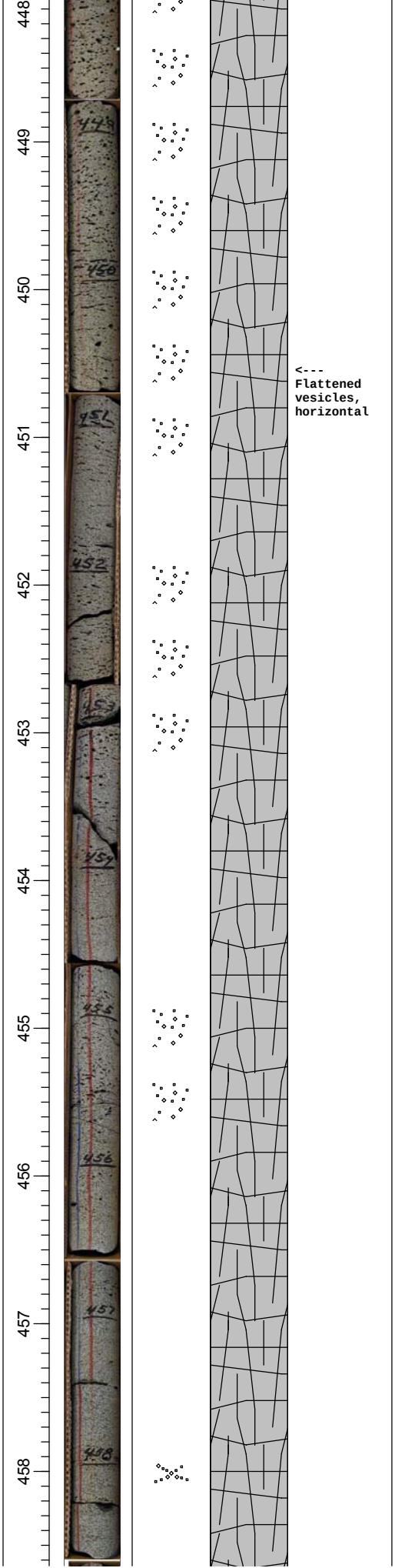


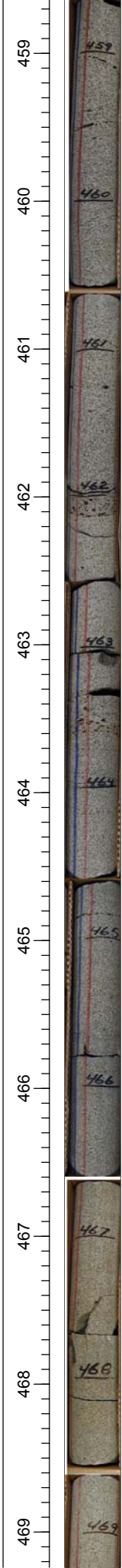






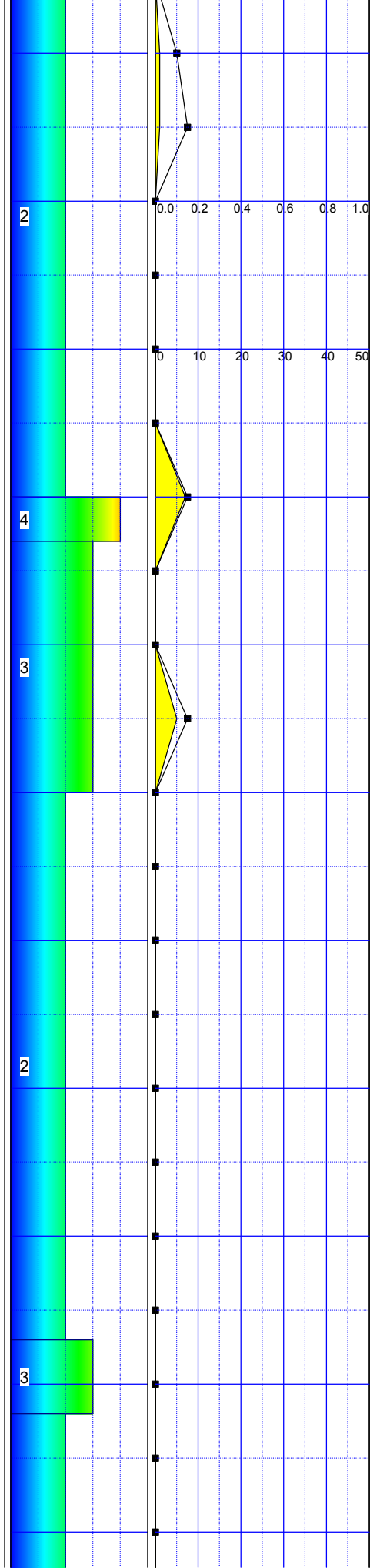
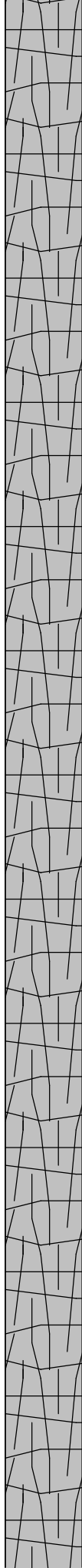


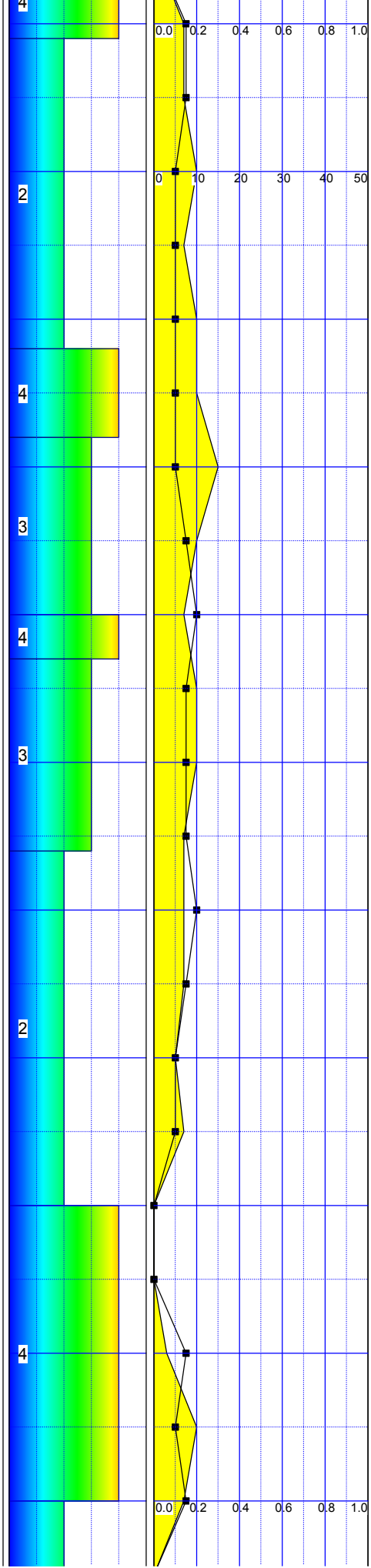
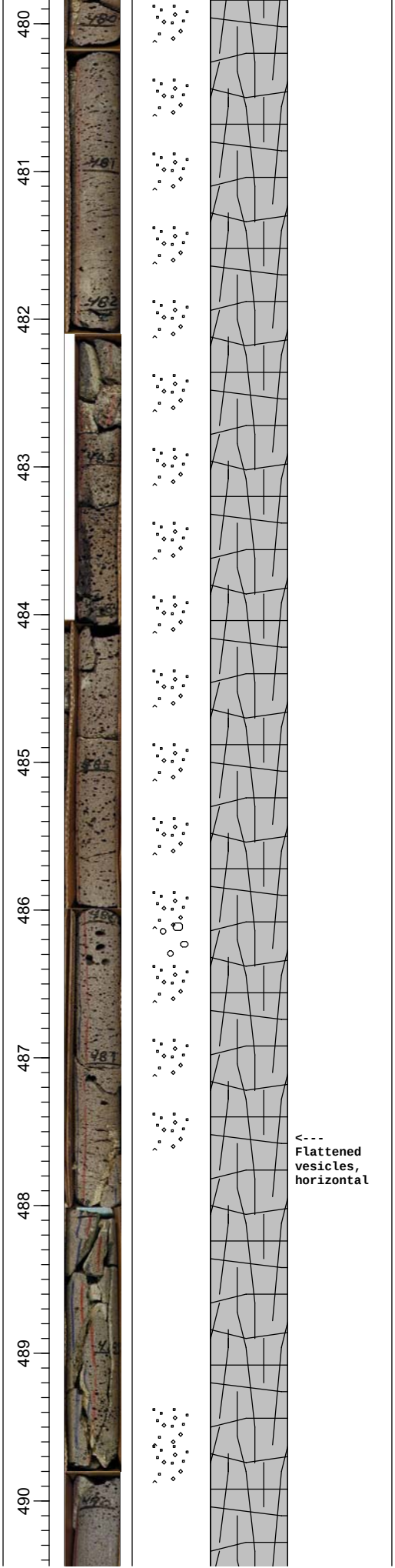


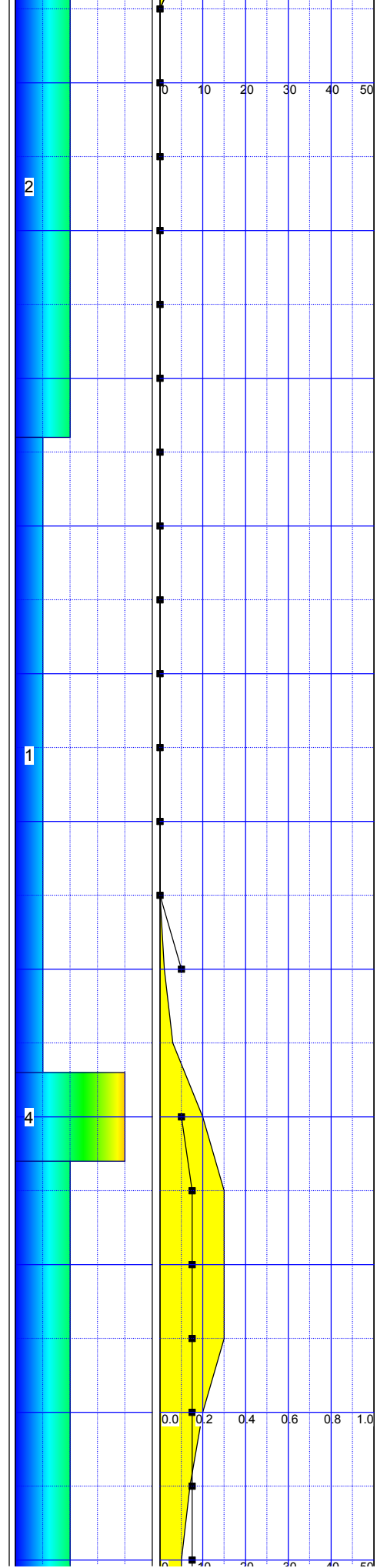
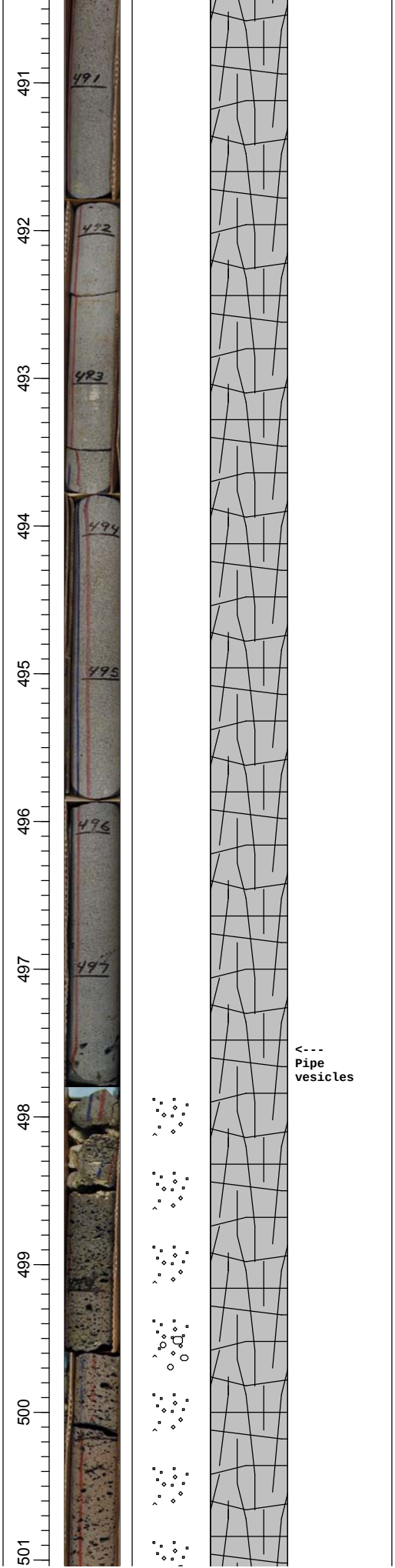


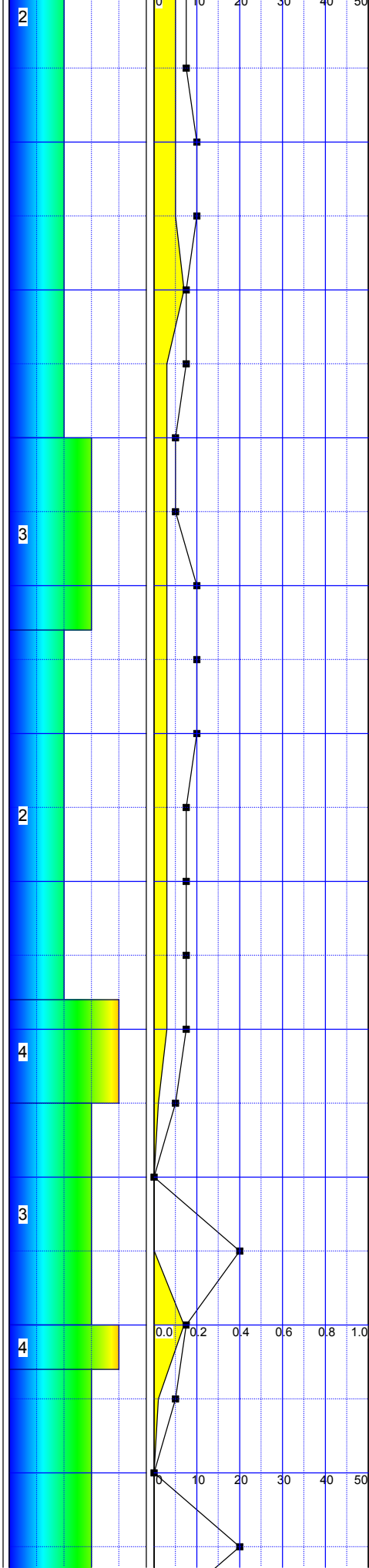
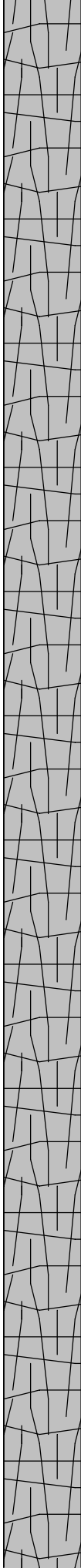
99%₂SiO₂+1%₂O

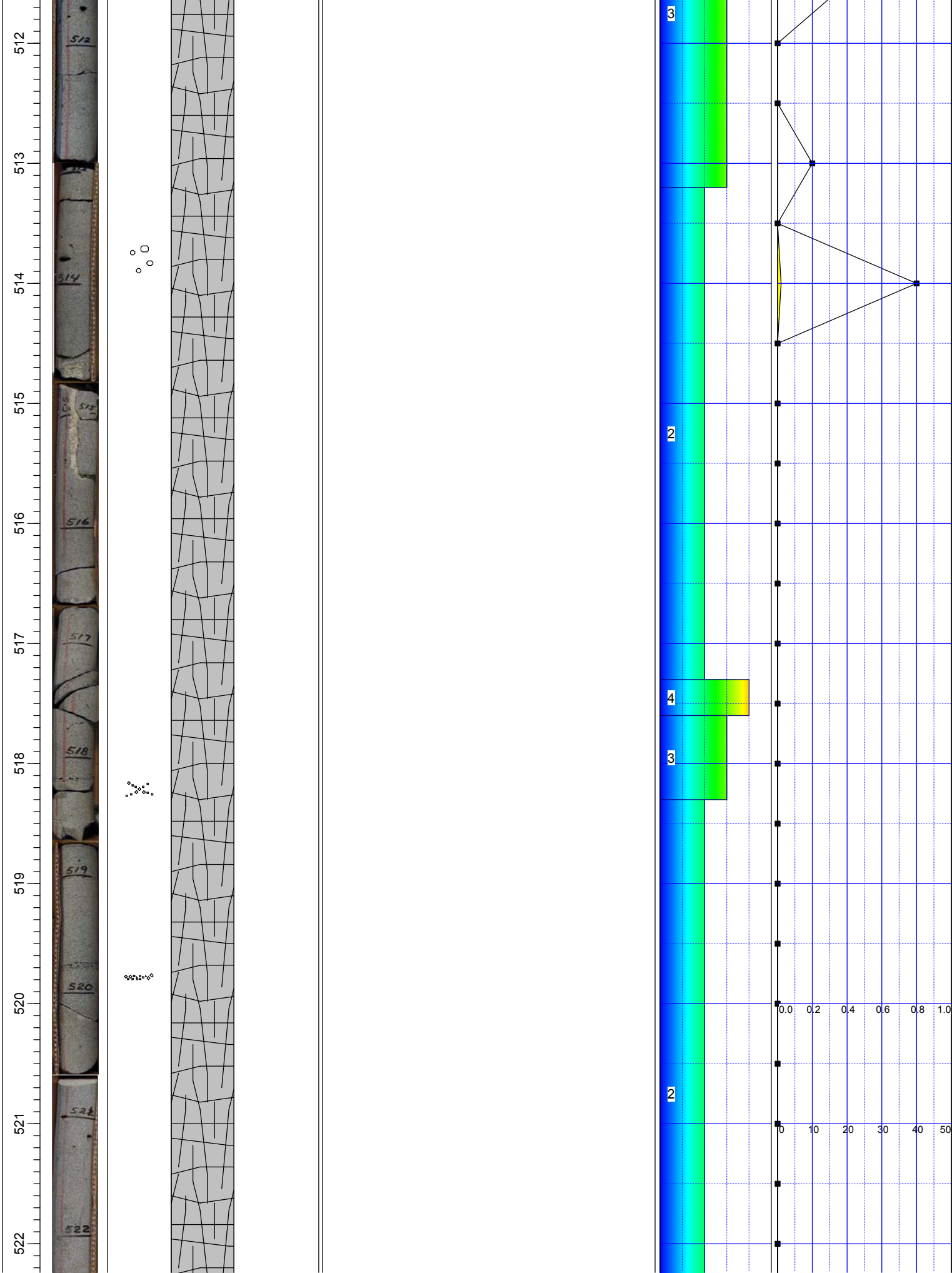
99%₂SiO₂+1%₂O

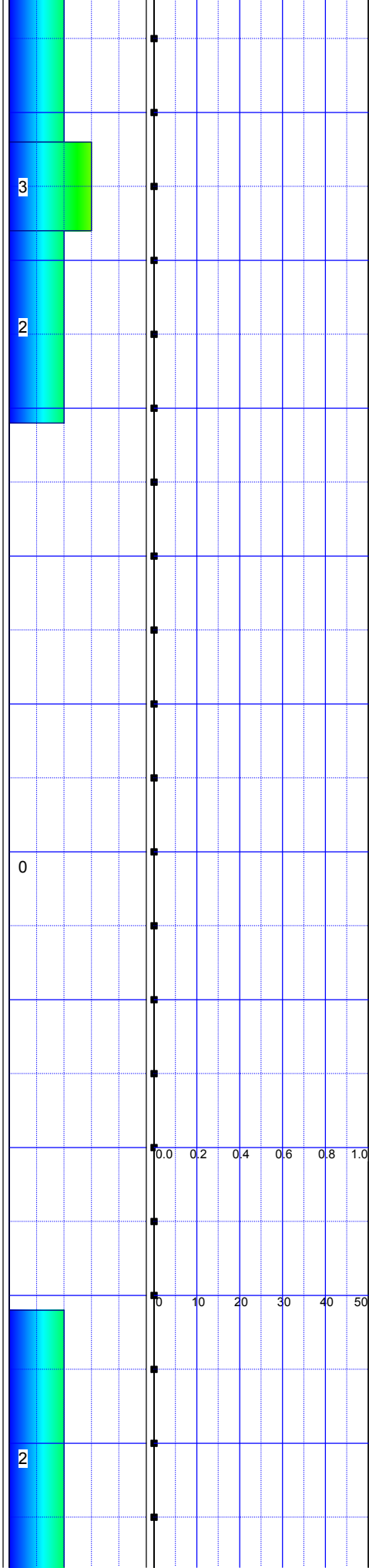
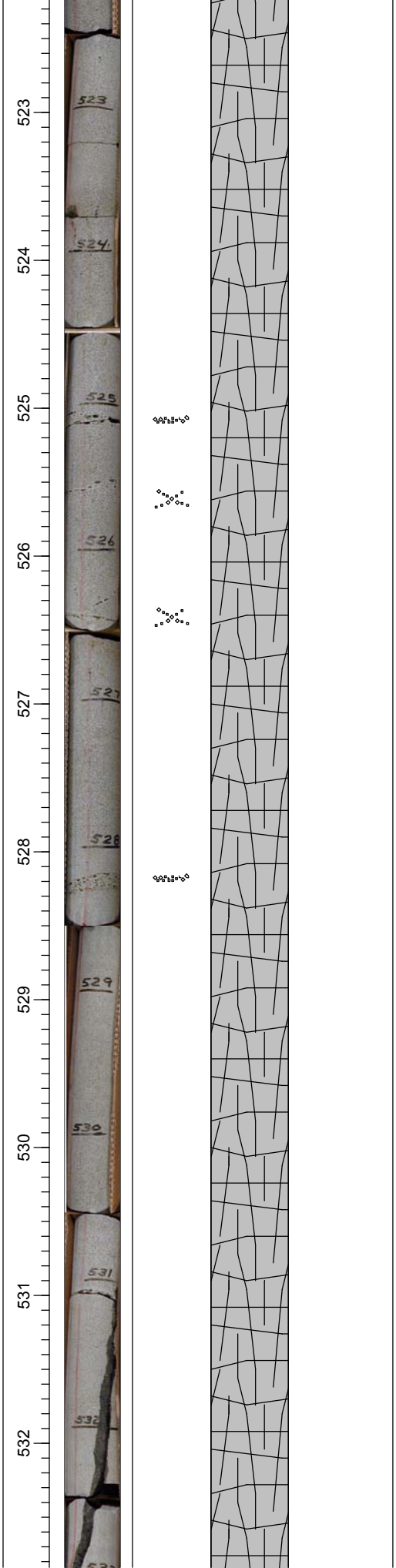


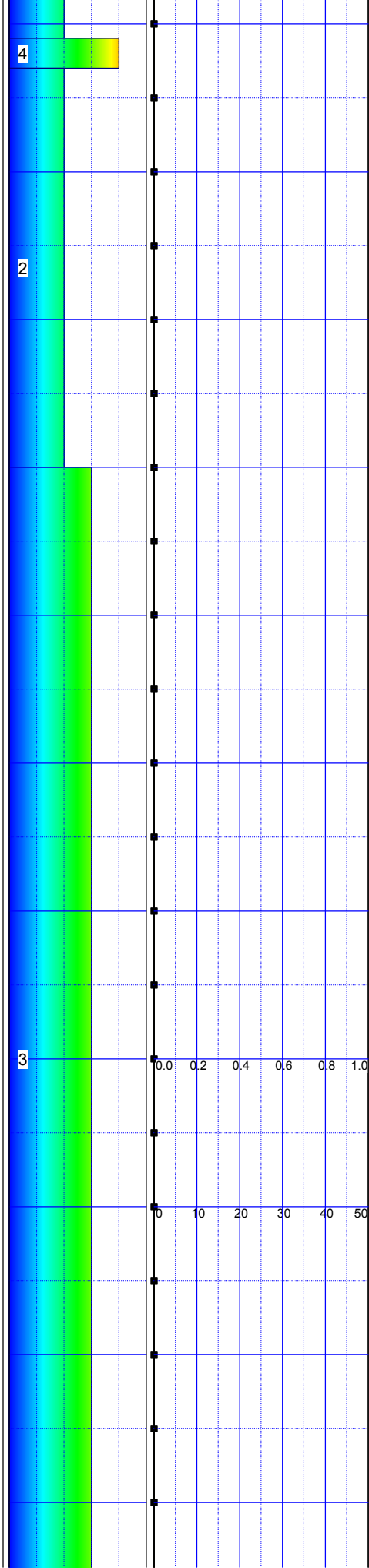
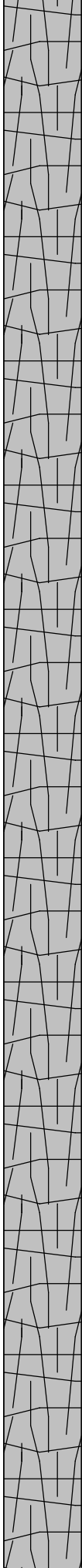
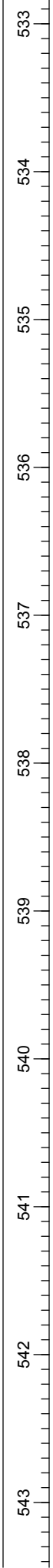


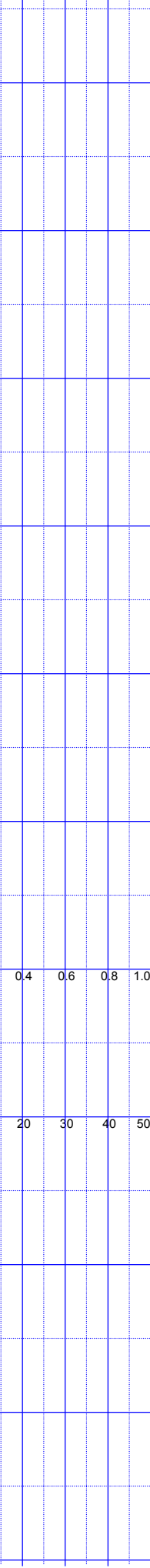
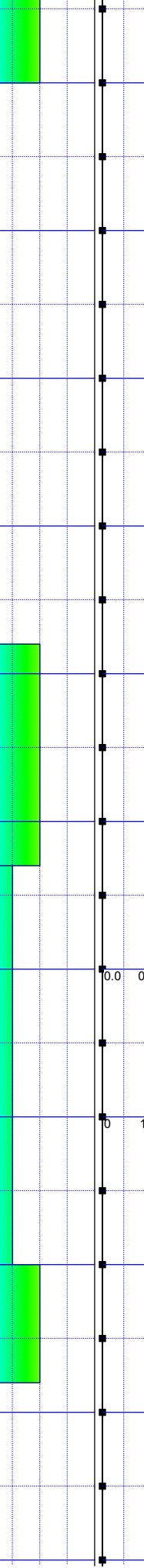
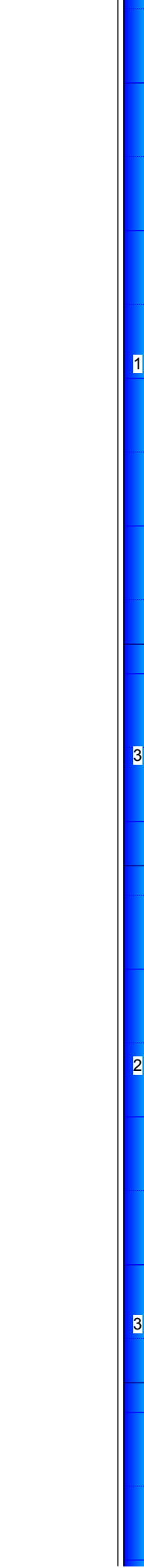
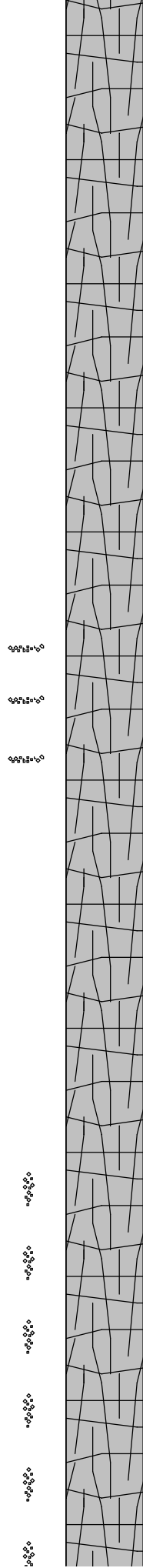
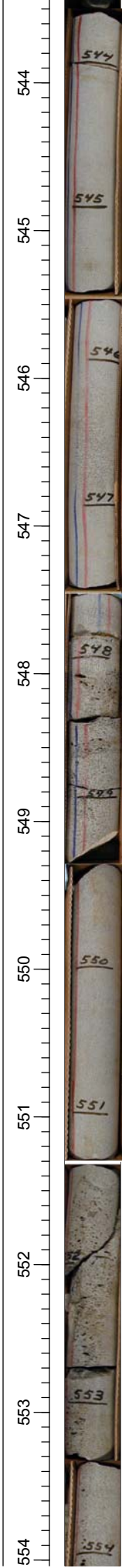




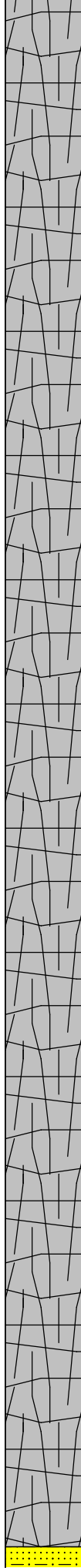








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SANDS WITH FINES: Medium to very fine lithic and volcanic sands, sub rounded to well rounded, spherical to sub prismatic, poorly to very poorly sorted.

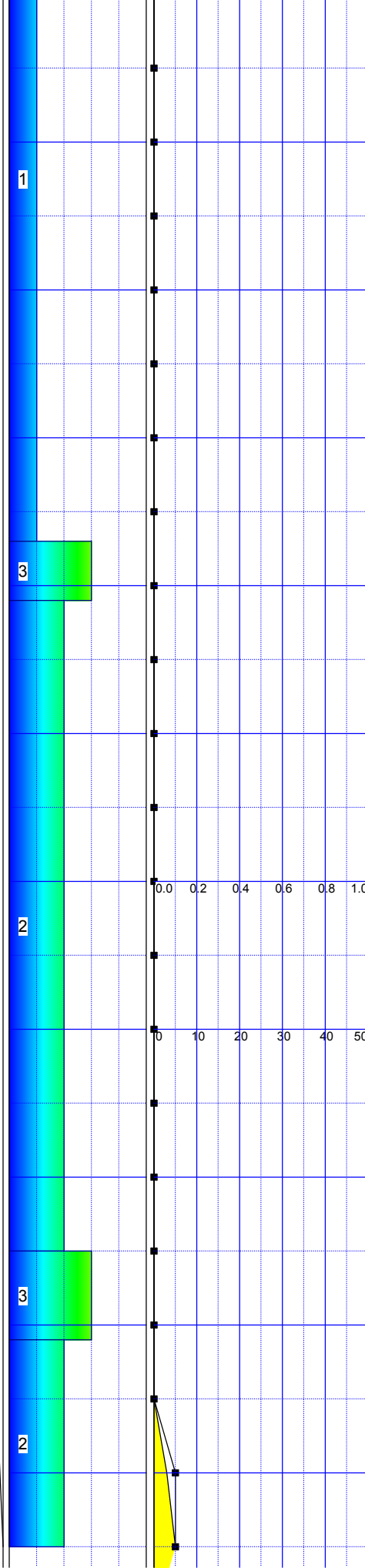
Color: Reddish brown

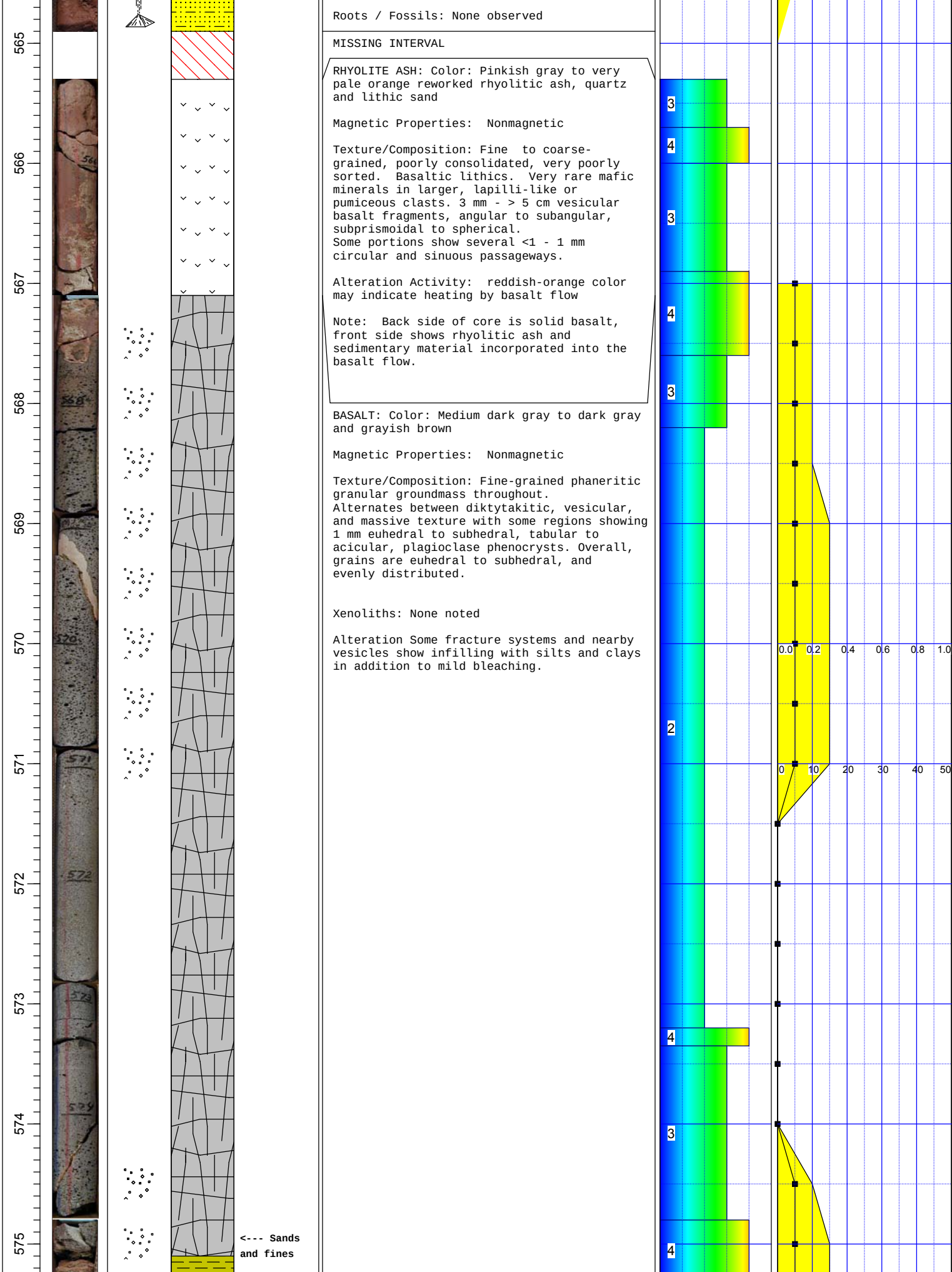
Consistence: Loose

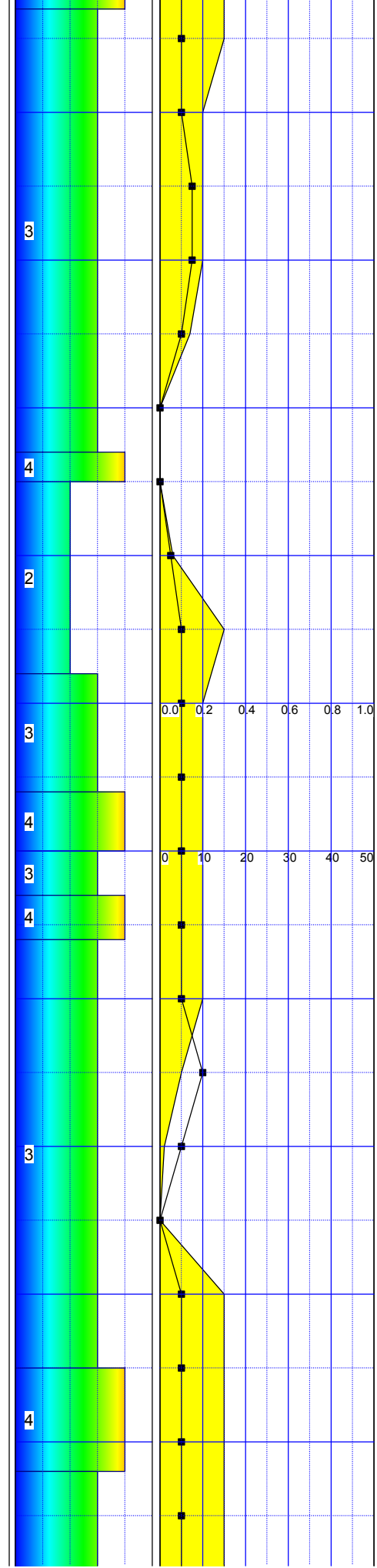
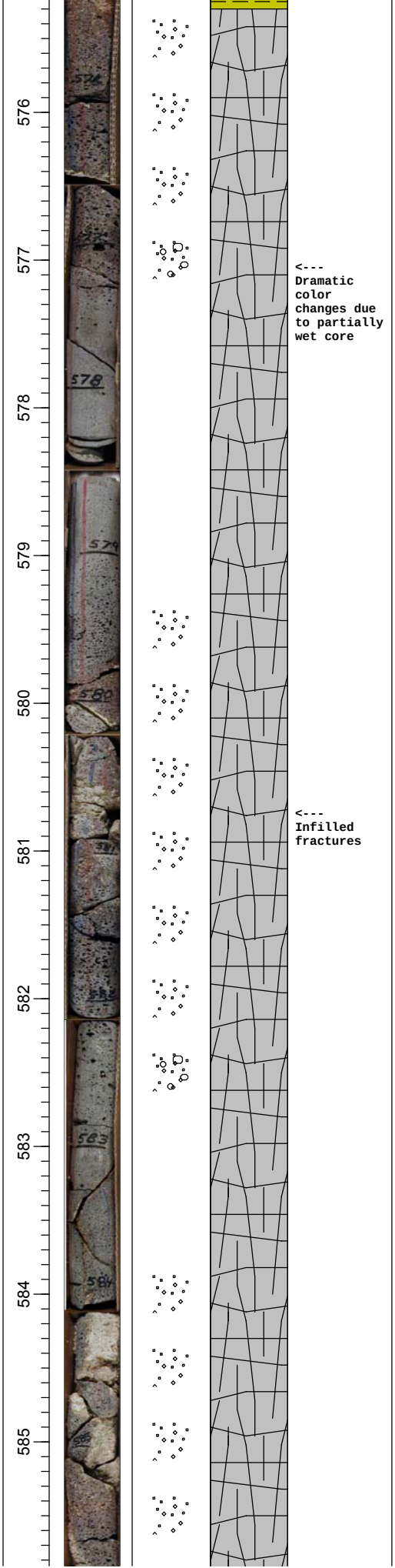
Structure: Single-grained

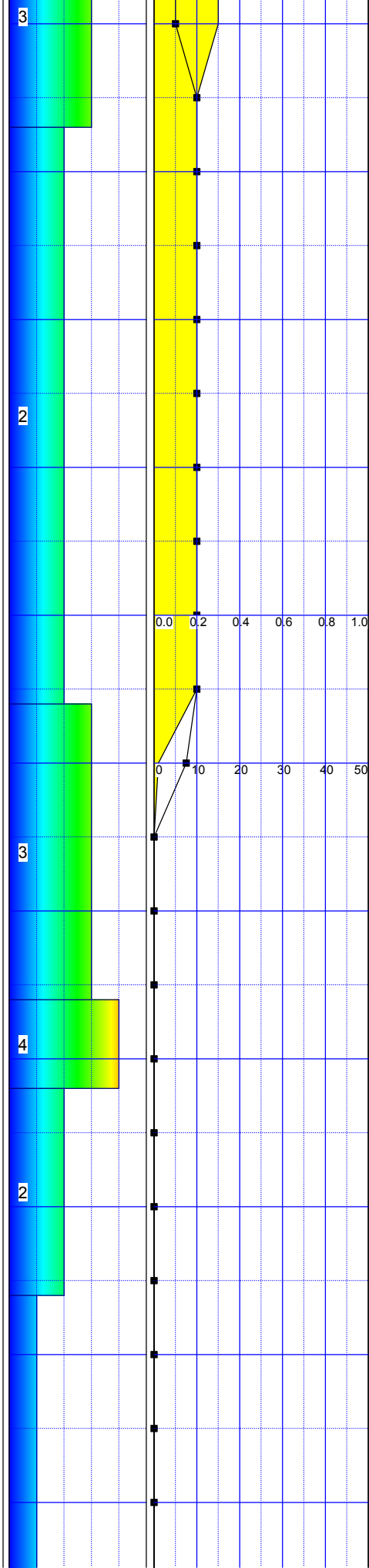
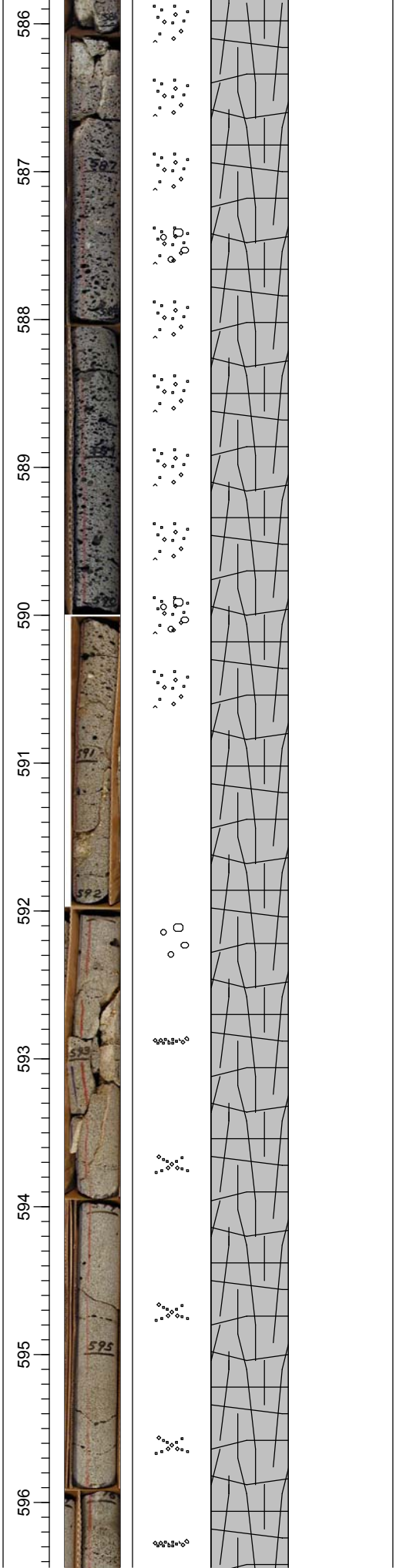
Free Carbonates: No

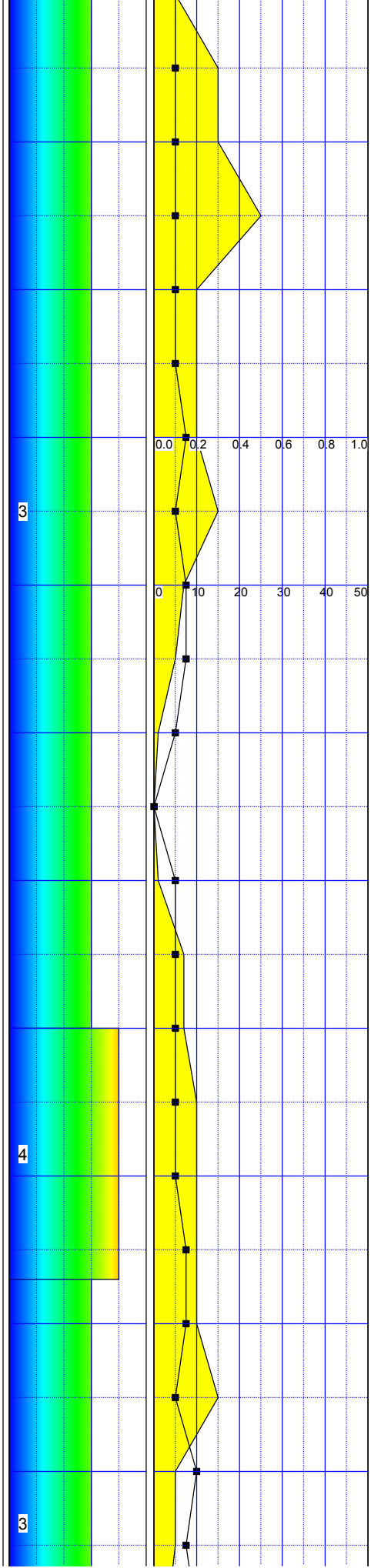
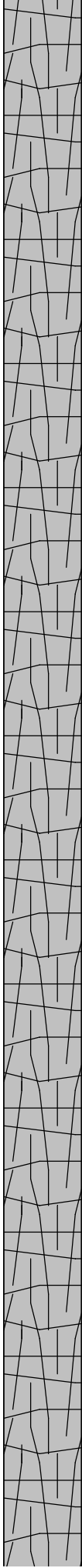
Rocks: None observed

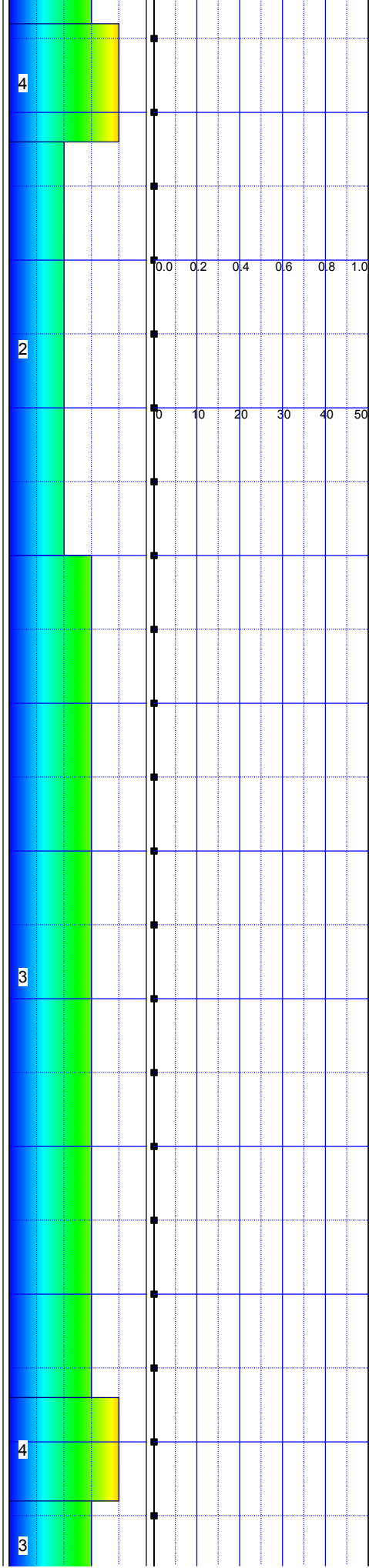
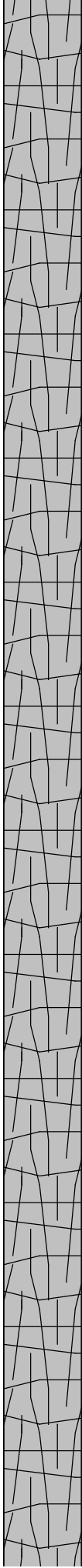


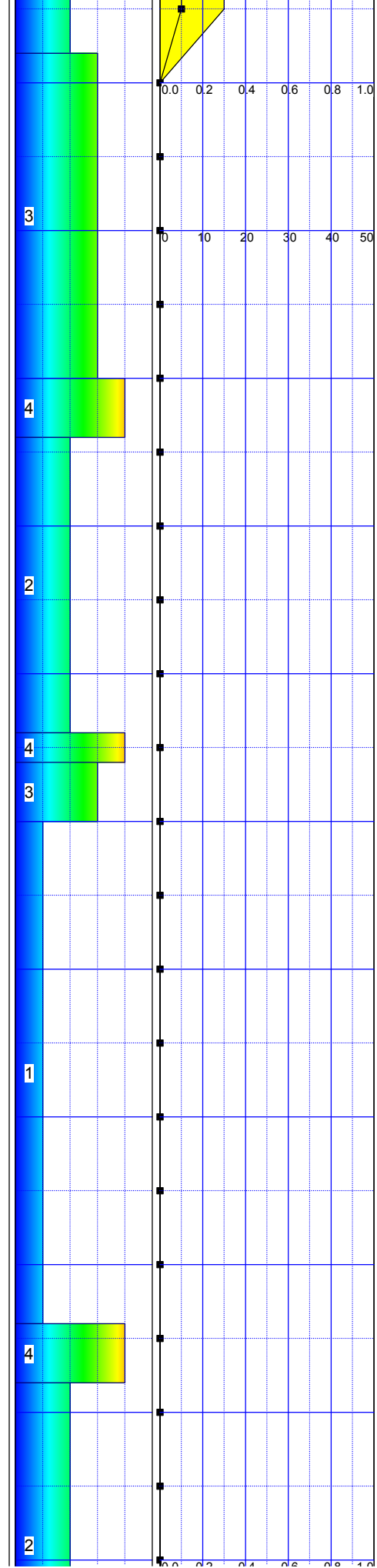
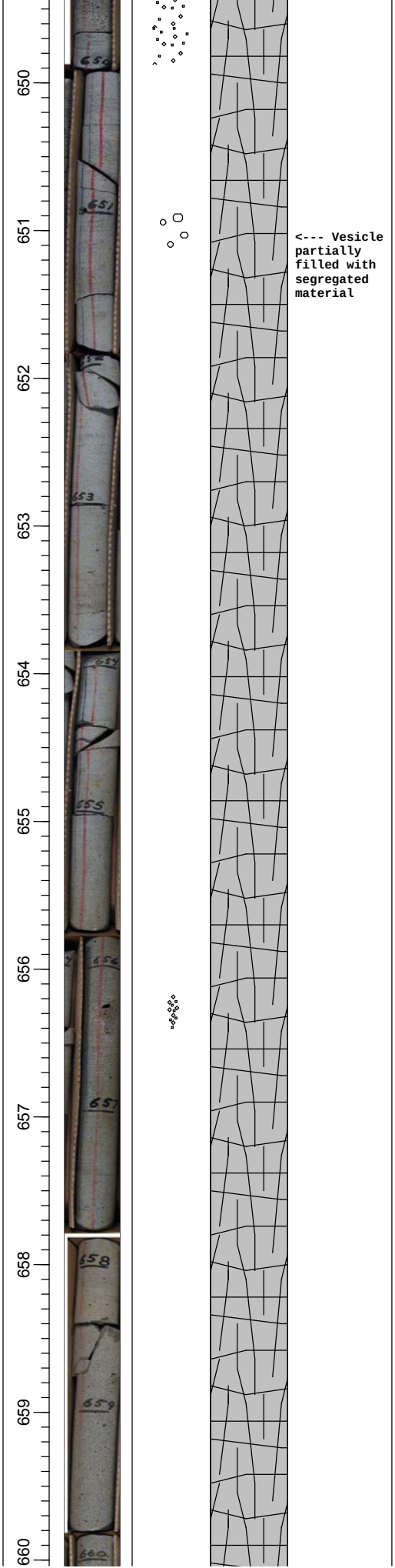


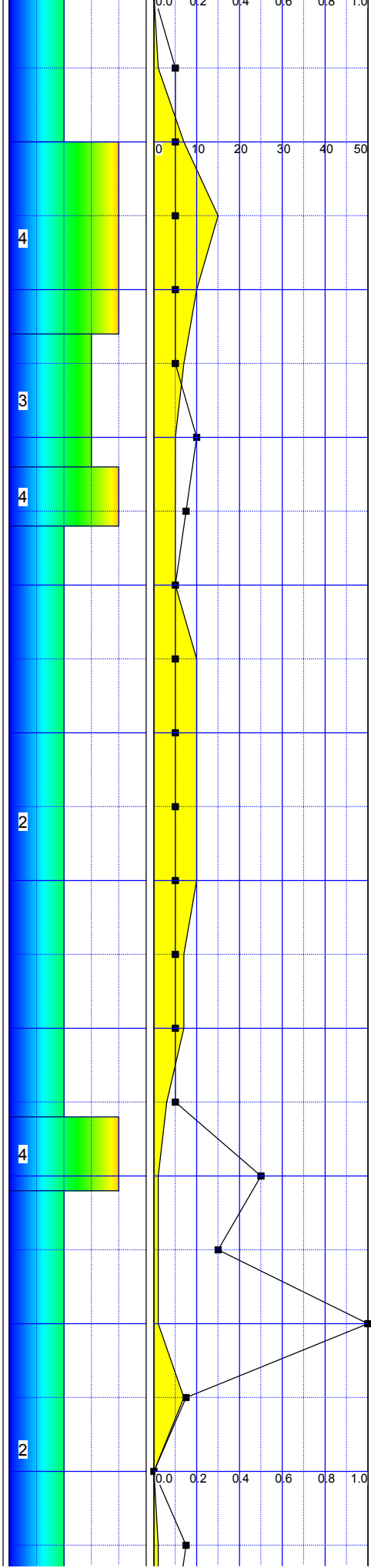
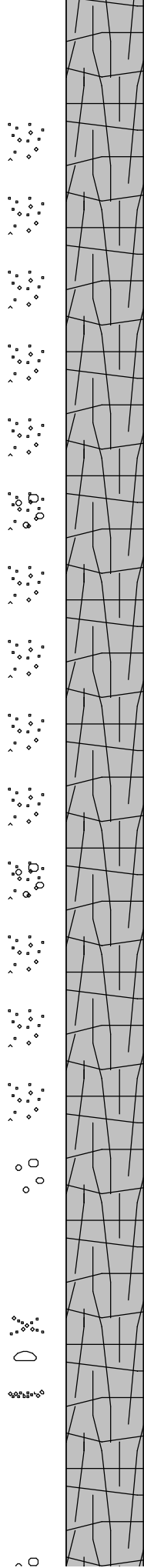


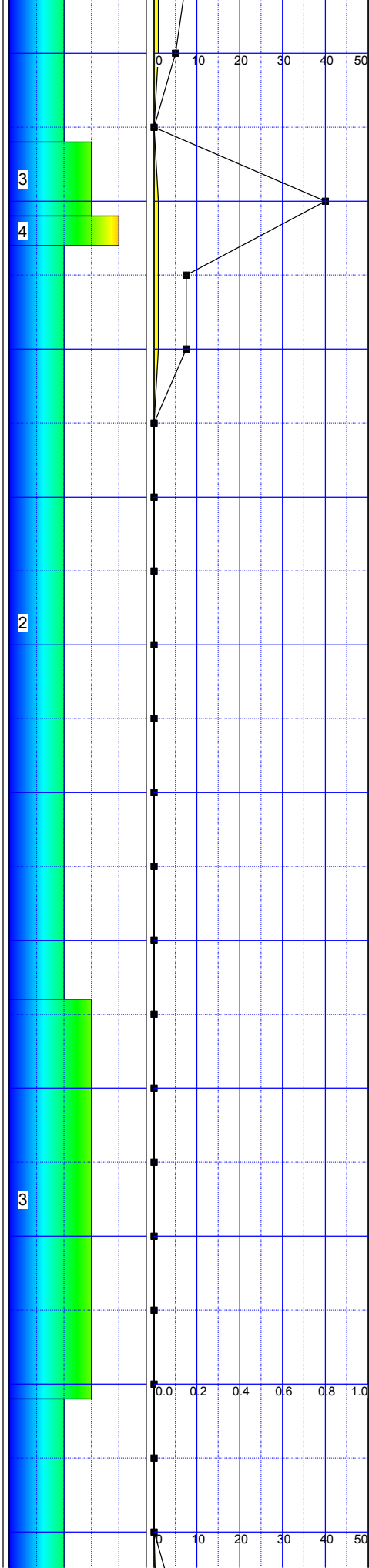
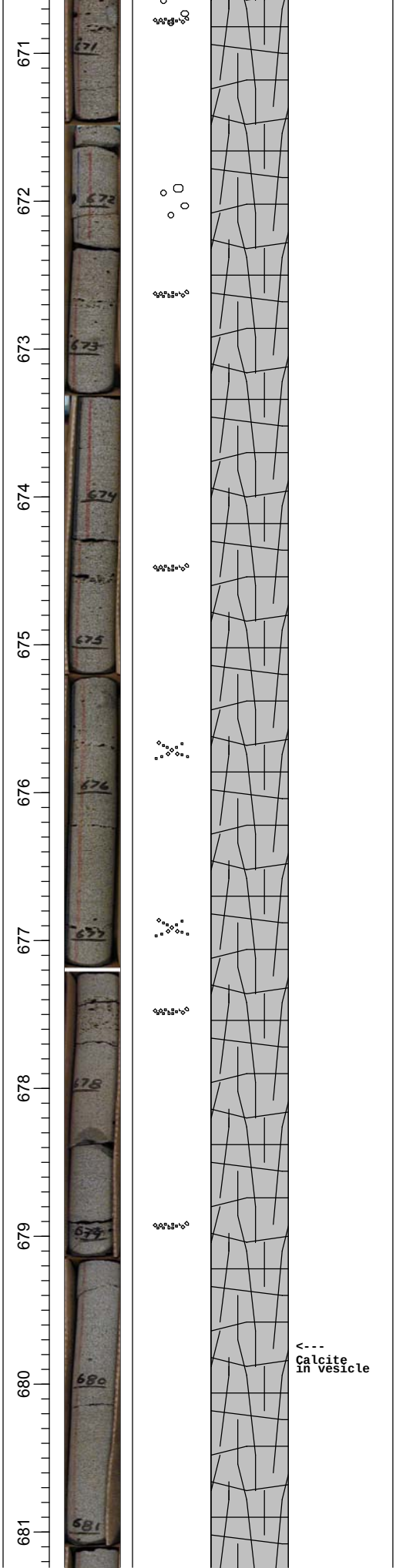




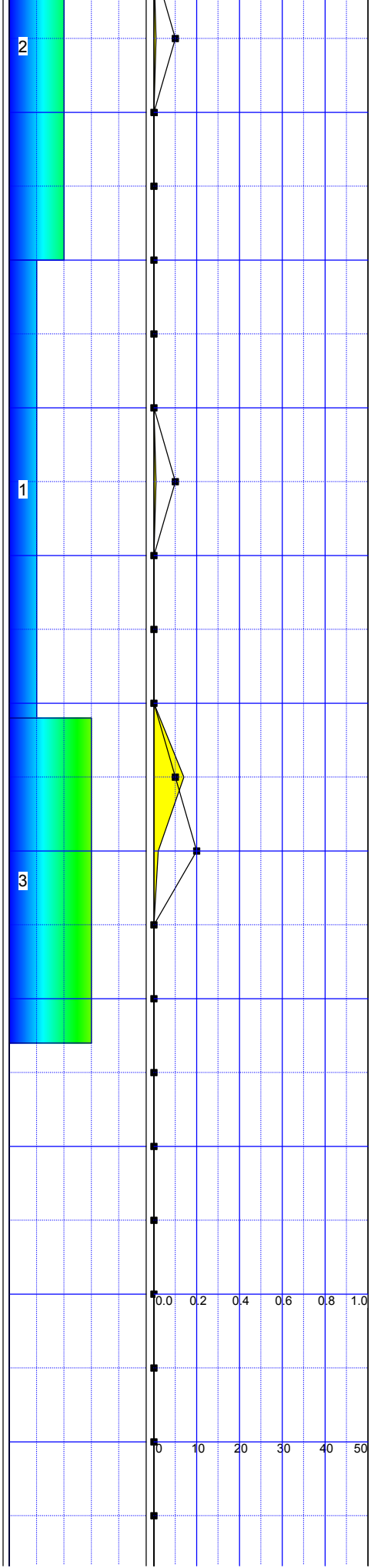
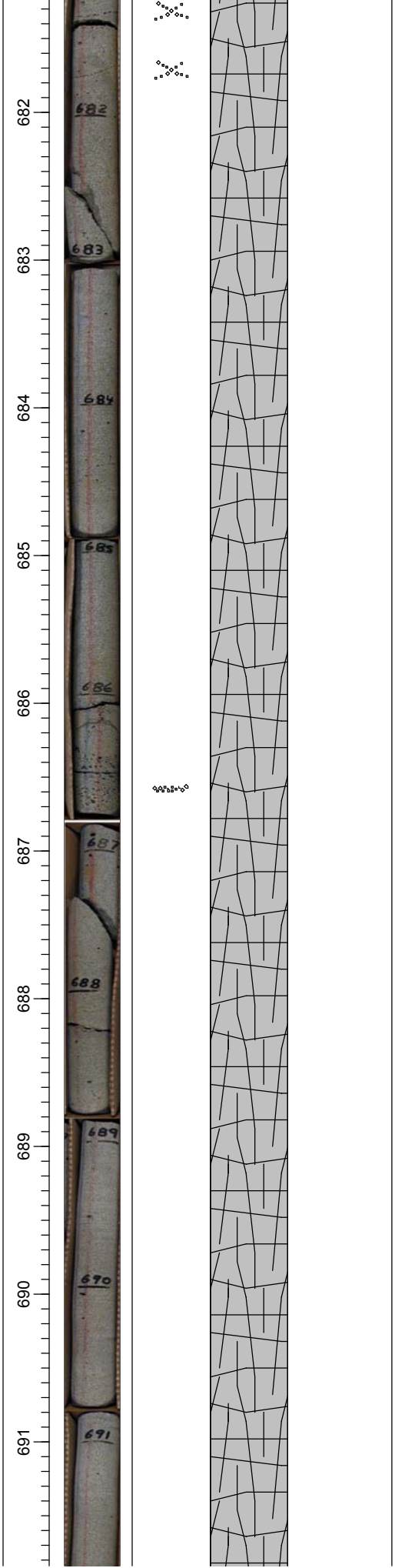


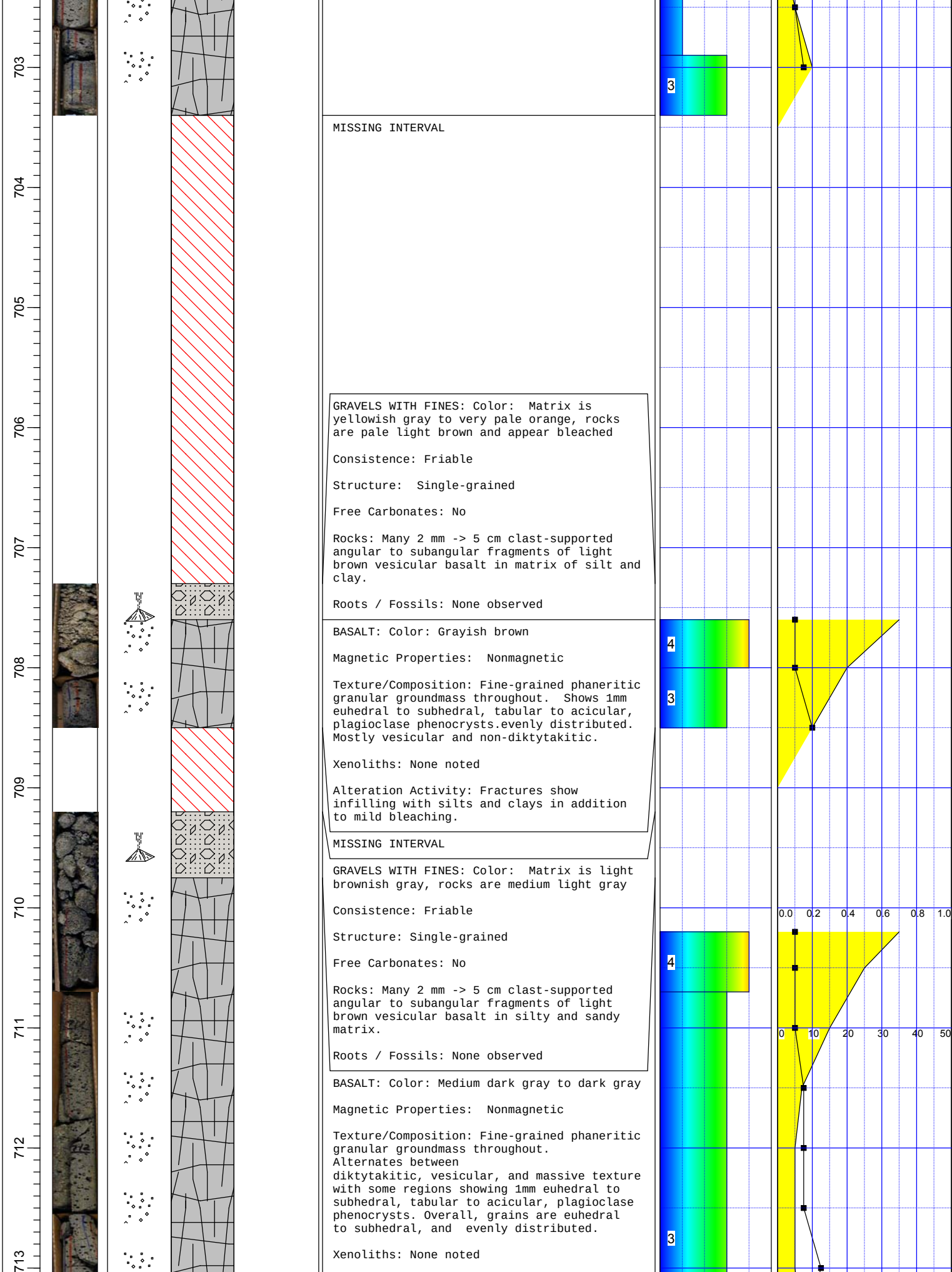


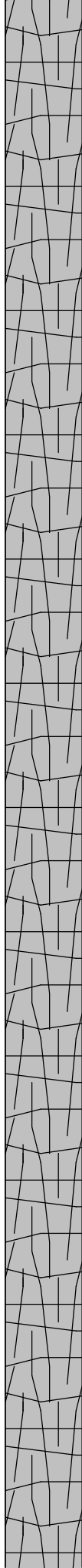




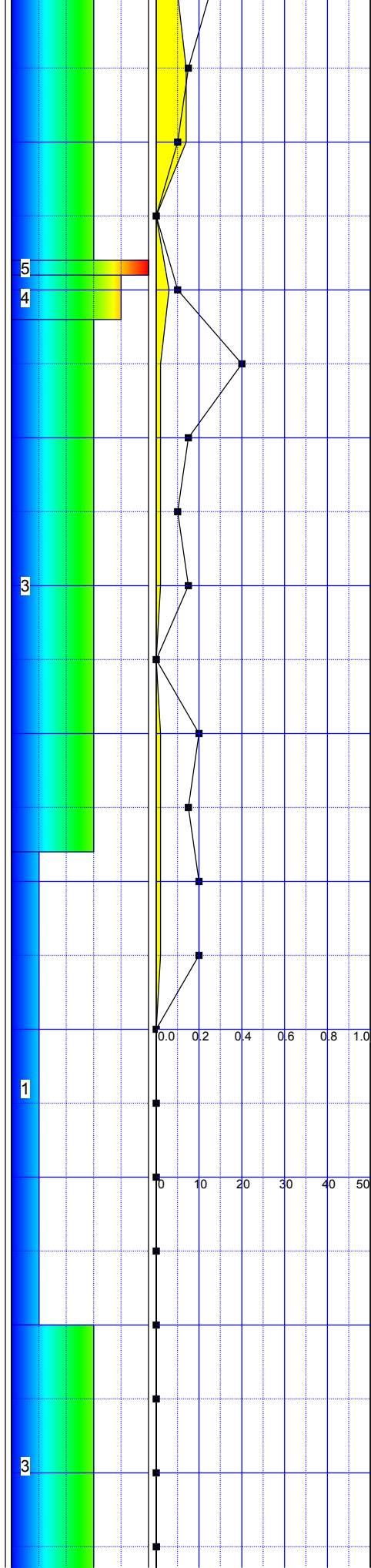
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Calcite
in vesicle

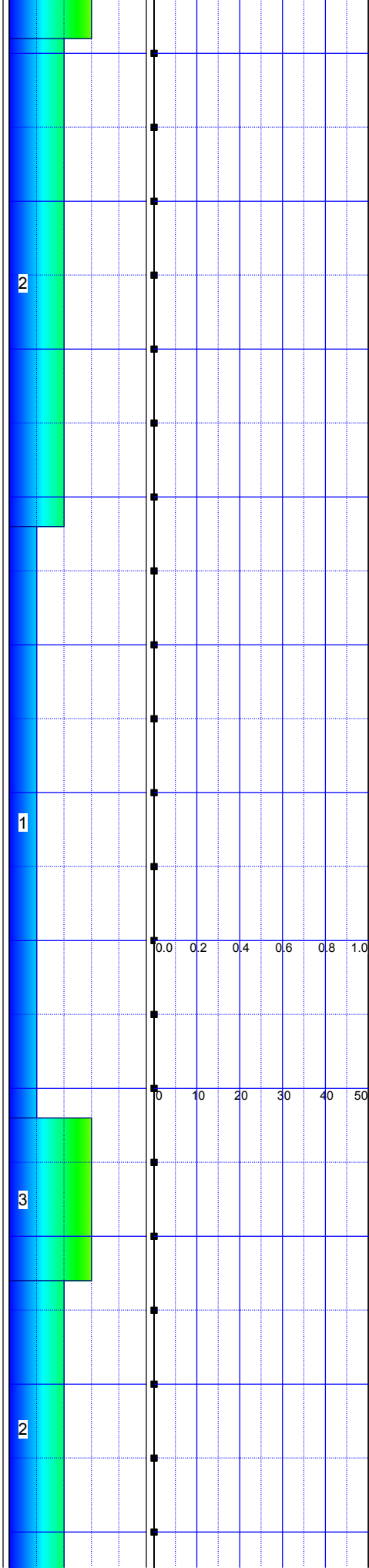
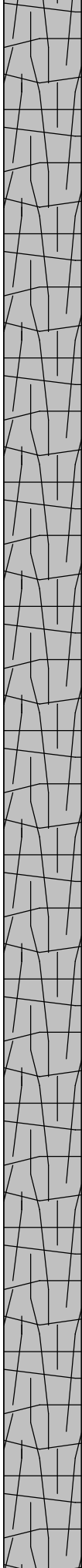
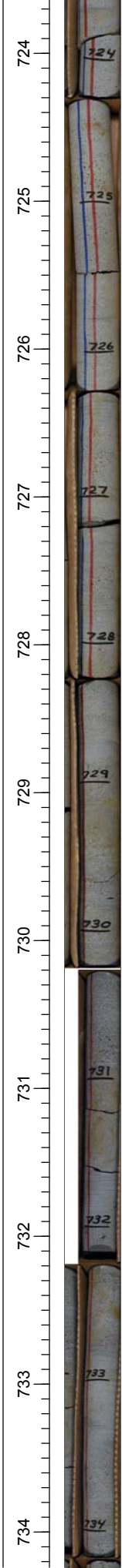


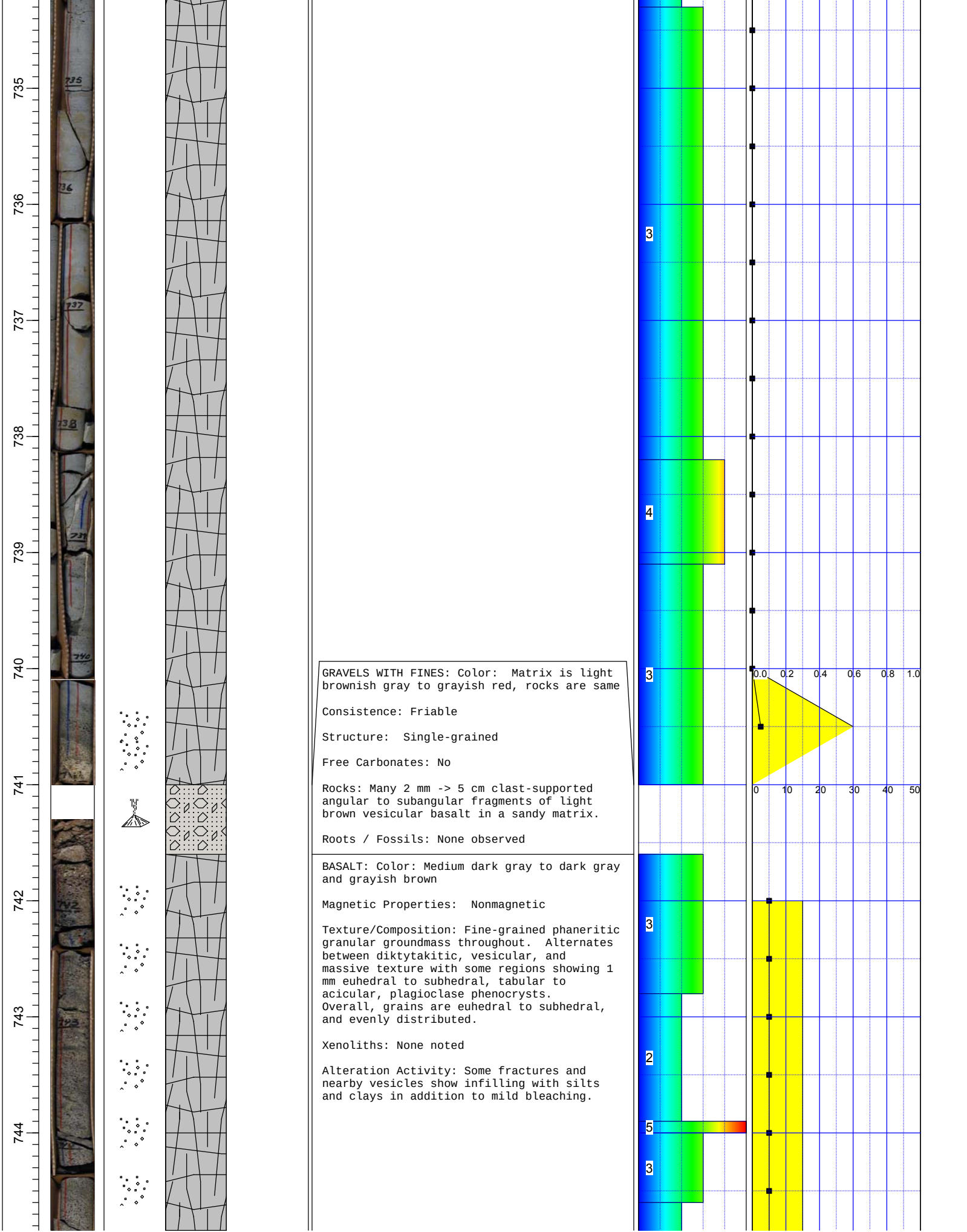


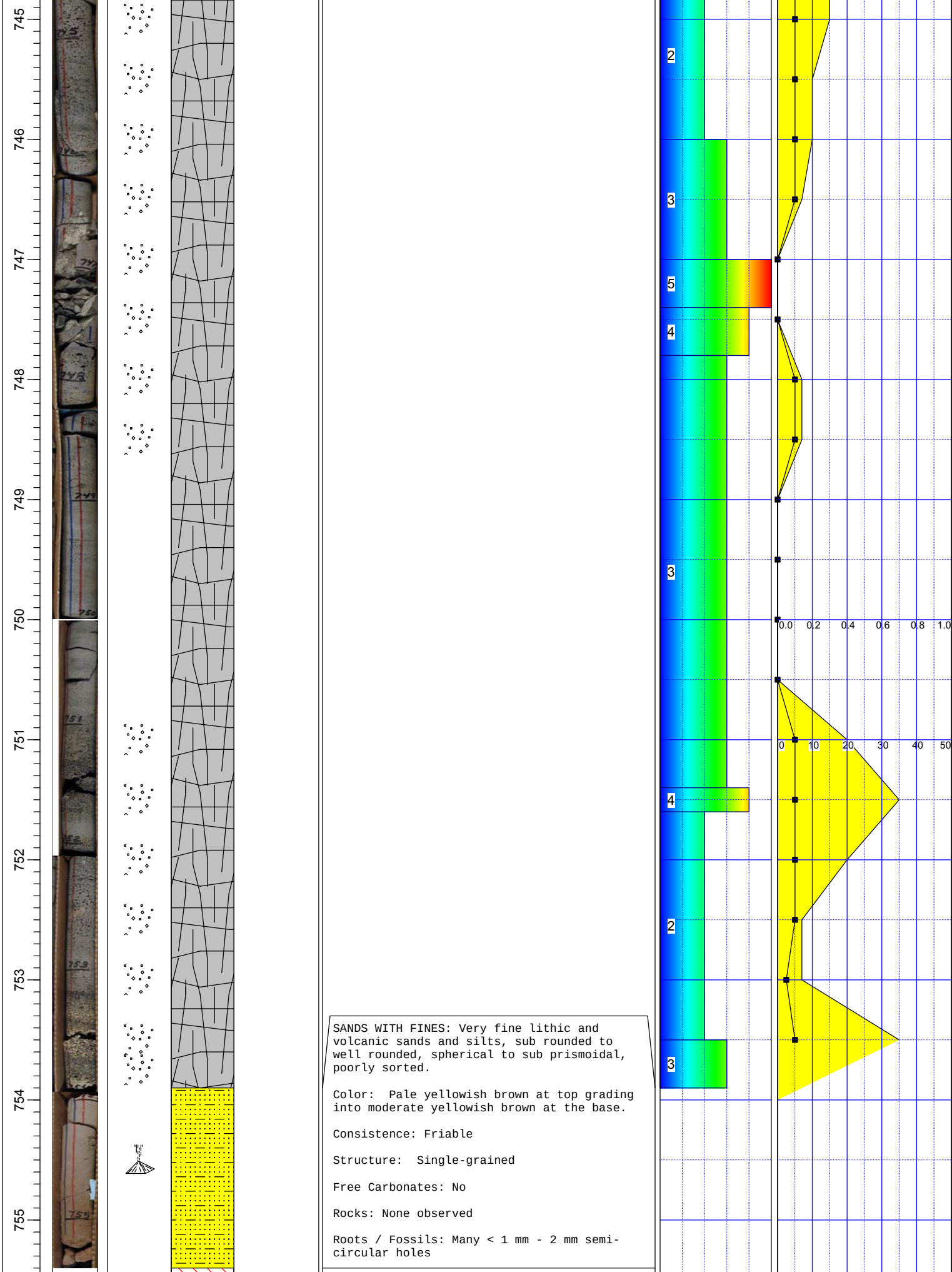


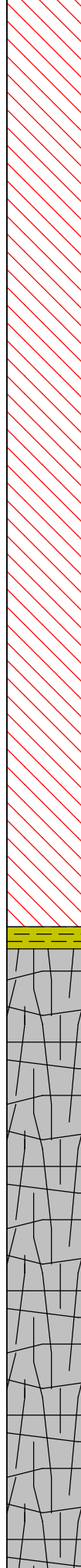
Alteration Activity: Some fracture systems and nearby vesicles show infilling with silts and clays in addition to mild bleaching.











MISSING INTERVAL

SILT AND CLAY: Color: Yellowish gray

Consistence: Friable

Structure: Single-grained

Free Carbonates: Yes

Rocks: Many 4 cm angular to subangular fragments of light brown vesicular basalt at base.

Roots / Fossils: A relatively large quantity of PLANT MATERIAL (possibly grasses) present in small fragments

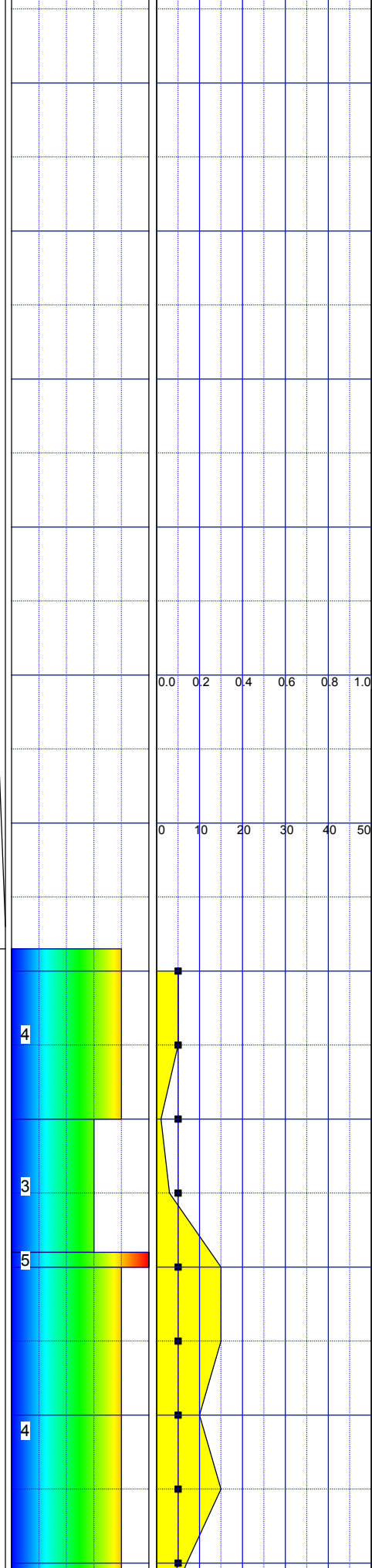
BASALT: Color: Medium dark gray to dark gray and grayish brown

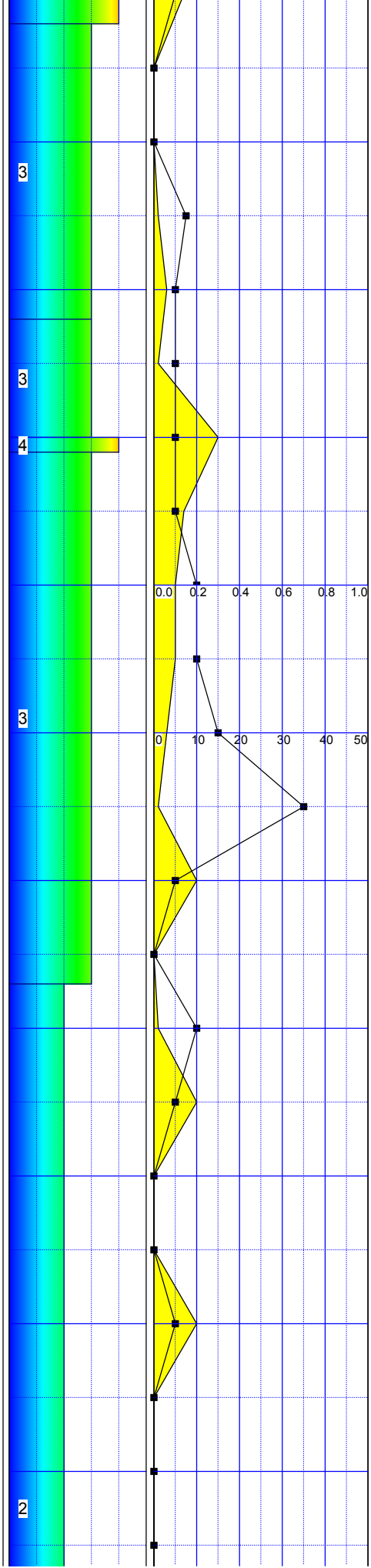
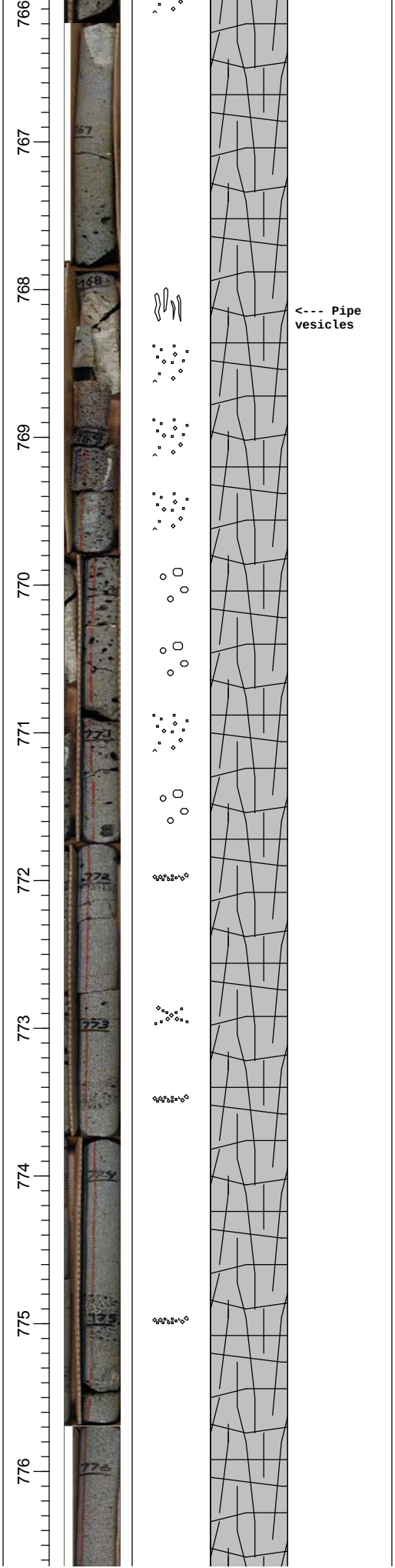
Magnetic Properties: Nonmagnetic

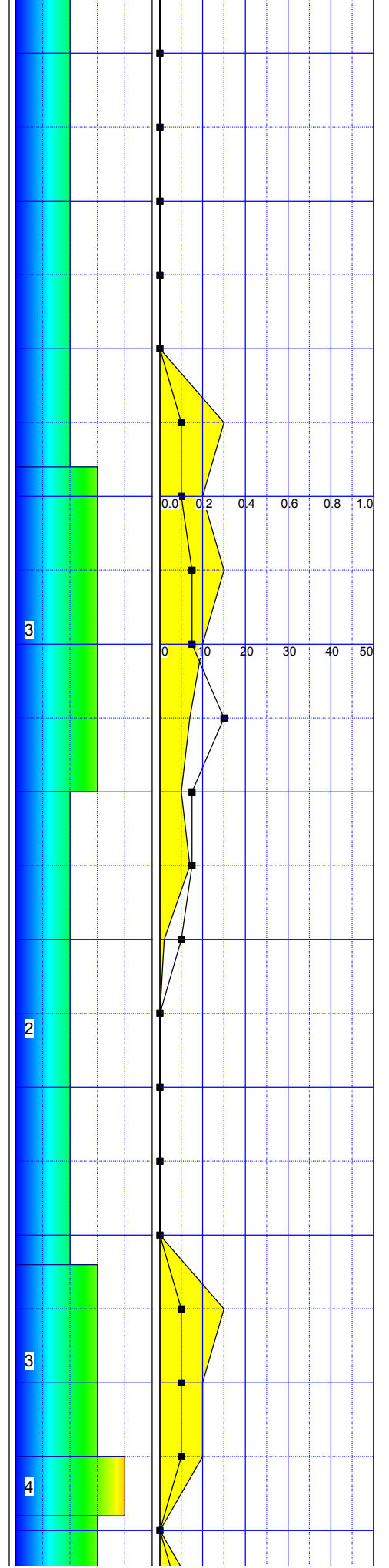
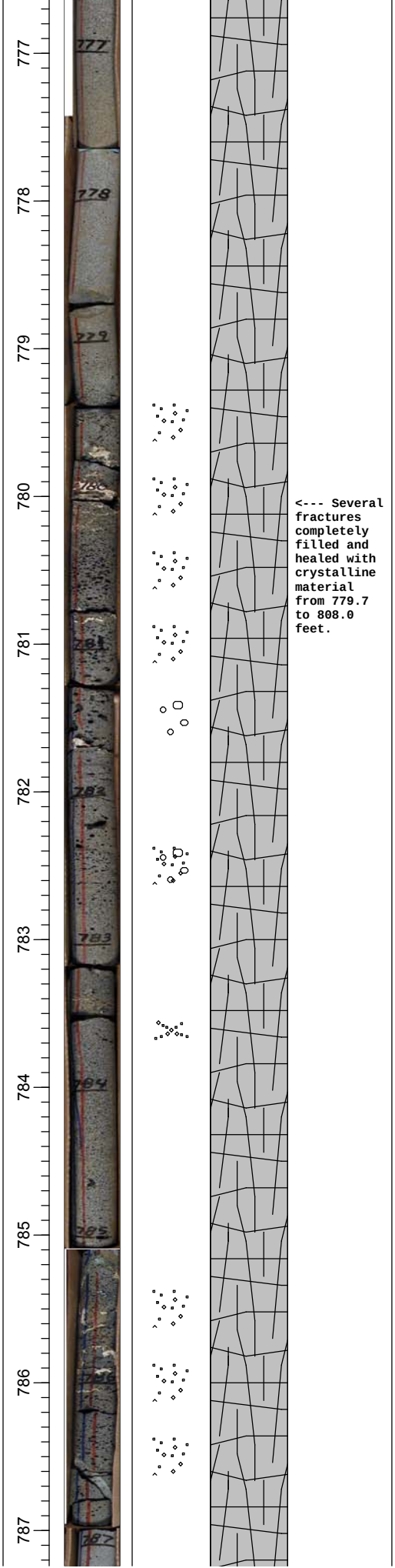
Texture/Composition: Fine-grained phaneritic granular groundmass throughout. Alternates between diktytactic, vesicular, and massive texture with some regions showing 1 mm euhedral to subhedral, tabular to acicular, plagioclase phenocrysts. Overall, grains are euhedral to subhedral, and evenly distributed.

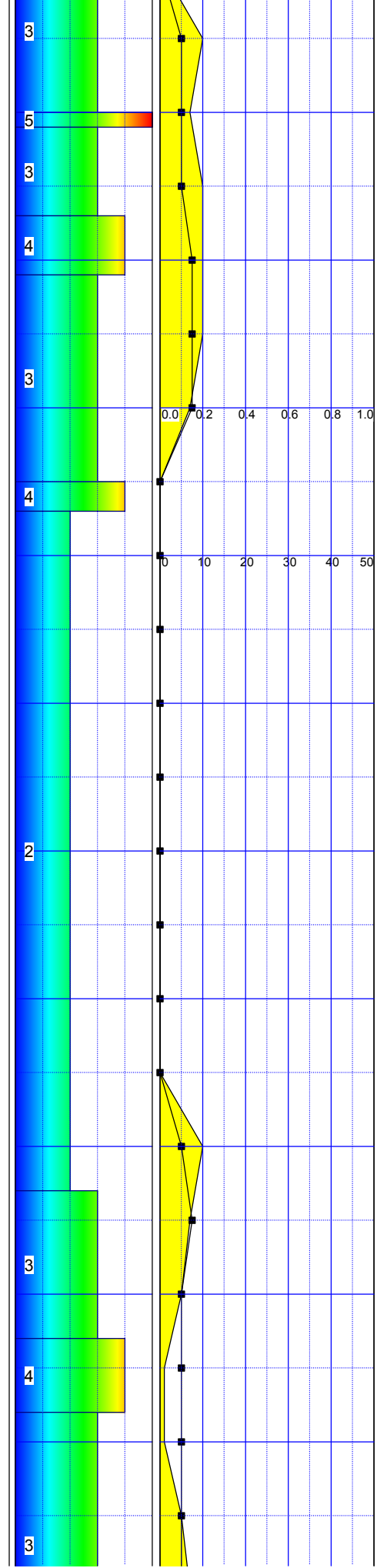
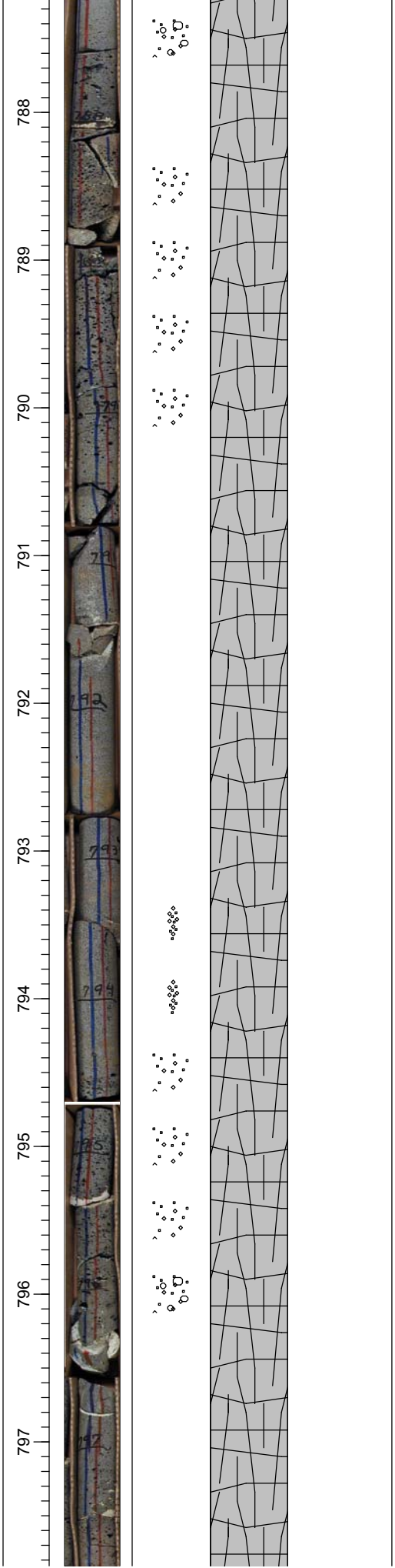
Xenoliths: None noted

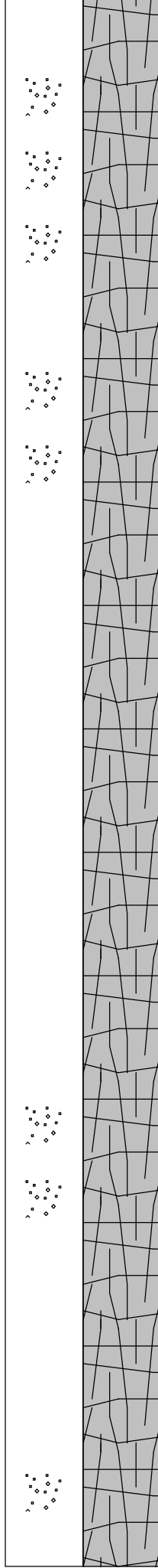
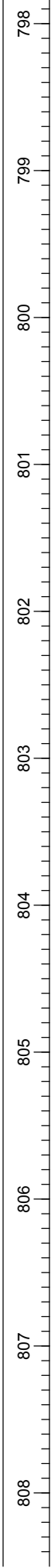
Alteration Activity: Some fractures and nearby vesicles show infilling with silts and clays in addition to mild bleaching.











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