



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 135

Logged By: Katherine Potter

Selected Aliases: USGS-135

USGS Site ID: 432753113093601

Total Core Recovered (ft): 1139

County & State: Butte Co., Idaho

Contractor Well ID: NA

Beginning Depth (ft): 0.0

Quadrangle Name: Quaking Aspen Butte

Drilling Agency: USGS

Ending Depth (ft): 1198.0

Lat / Lng: N43 27 53.47, W113 09 35.62

Year Drilled: 2007

Continuous Recovery

Tns / Rng / Sec: T02N R28E S30

Names of Drillers: Gilbert and Vance

Selected Intervals Recovered

UTM Coordinates: 325276.262 4814488.491

Well Status: Complete

Surface Elevation (ft): 5,135.94

Total Depth of Hole (ft): 1,198.0

Notes:

Core Geological Profile

Lithologic Patterns

-  Basalts
-  Rhyolites
-  Sedimentary Rock

Soil Patterns (See Unified Soil Classification System.)

-  Gravels - clean
-  Sands with fines
-  Gravels with fines
-  Silts and clays
-  Sands - clean

Intervals in Absentia

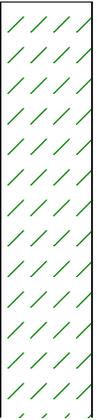
-  Surficial material
-  Interval not cored
-  Natural void
-  Missing interval

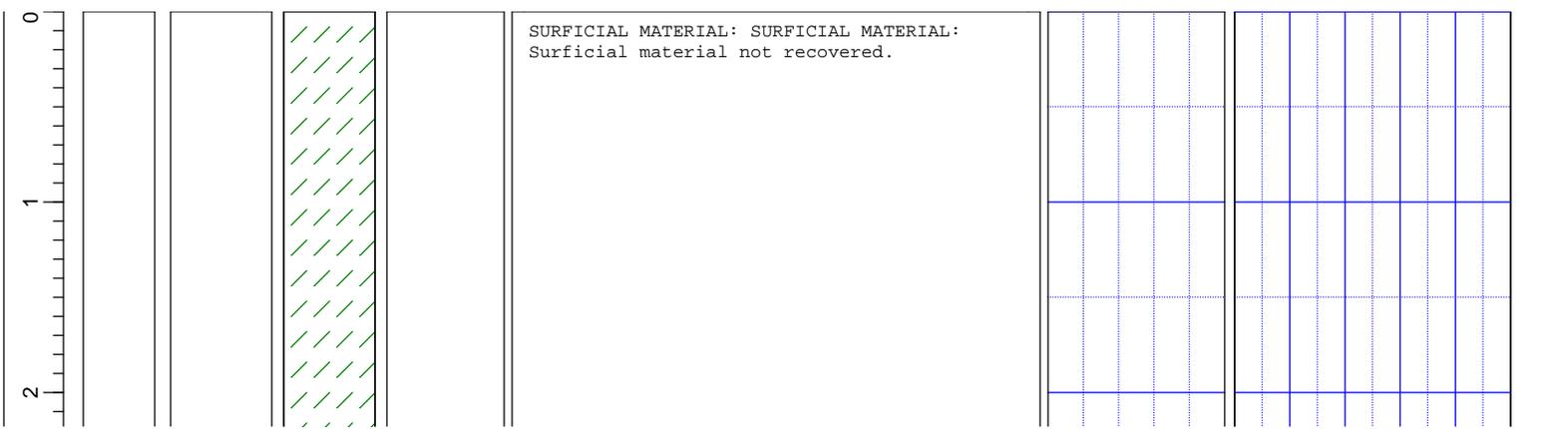
Igneous and Sedimentary Structure Symbols

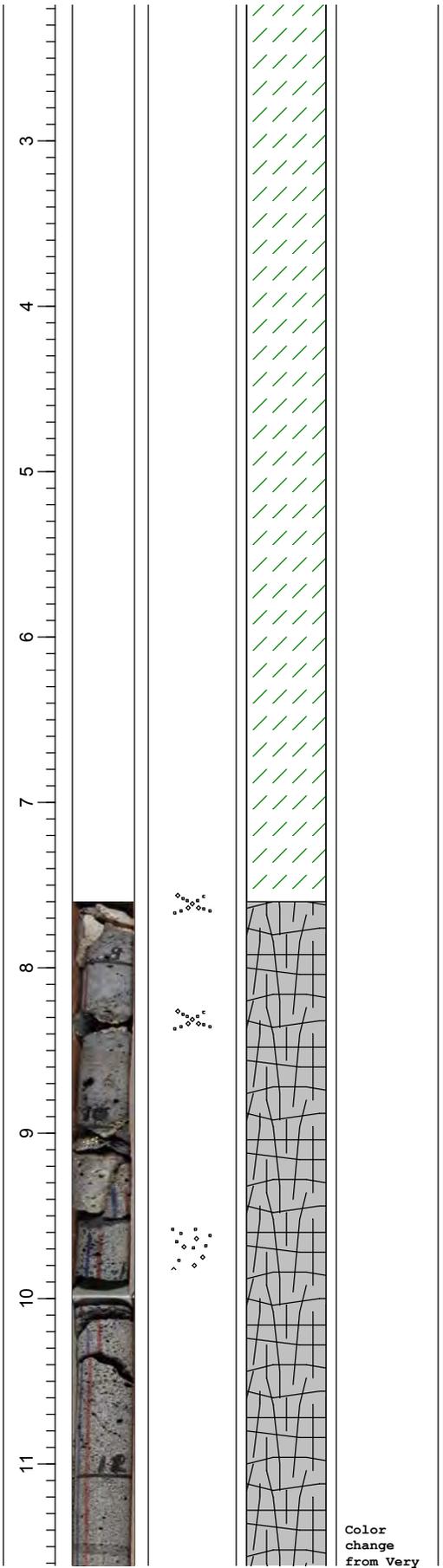
-  Vesicle zone
-  Pipe vesicles
-  Ripple marks
-  Large vesicles
-  Pillows
-  Mud cracks
-  Vesicle planes
-  Vesicle Sheet
-  Imbricated bedding
-  Mega vesicles
-  Flow/Mold
-  Graded bedding
-  Vesicle Cylinders
-  Spatter feature
-  Cross bedding

Soil Structure Symbols

-  Structureless - Single Grained
-  Structureless - Massive
-  Platy
-  Granular
-  Blocky
-  Prismatic
-  Columnar

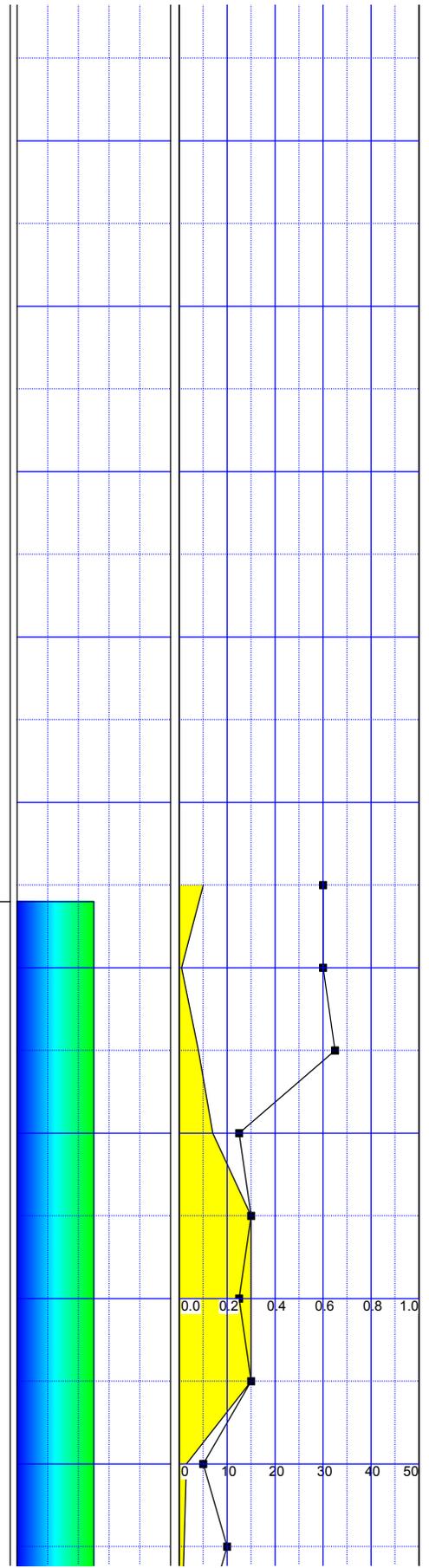
Depth (feet & tenths)	Core Photo	Igneous, Soil and Sed Structures	Lithology	Description	Fracture Frequency (See fracture classification on website.)	Vesicle Characteristics <div style="display: flex; justify-content: space-between;"> <div> <p>Mean Size (in)</p> <p>0 0.2 0.4 0.6 0.8 1</p> </div> <div> <p>Volume Percentage</p> <p>0 10 20 30 40 50</p> </div> </div>
0				SURFICIAL MATERIAL: SURFICIAL MATERIAL: Surficial material not recovered.	0 1 2 3 4 5	0 10 20 30 40 50
1						
2						

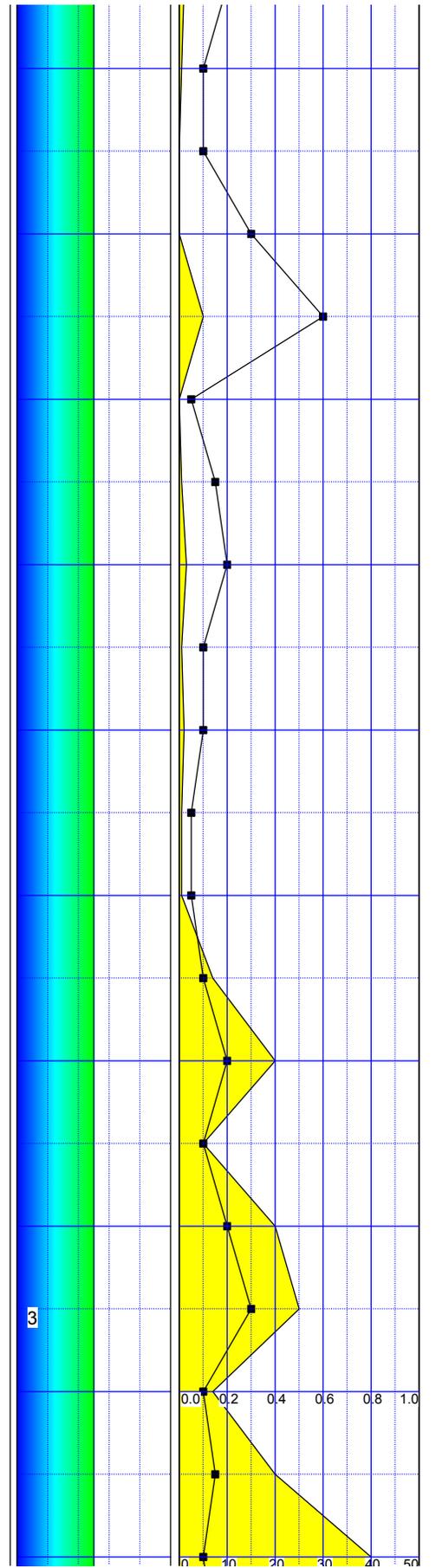
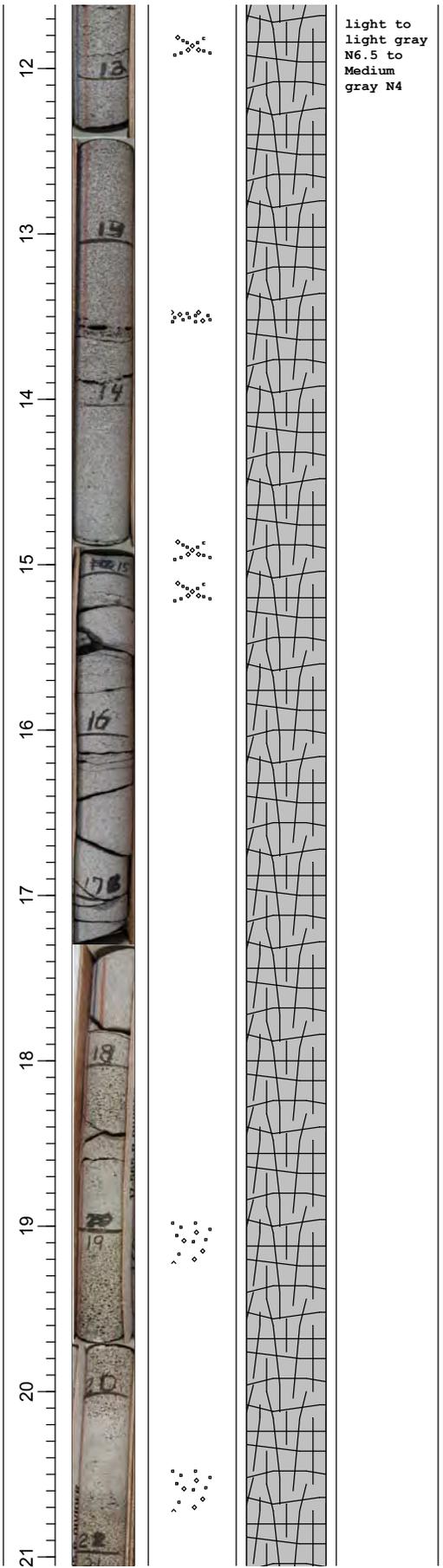


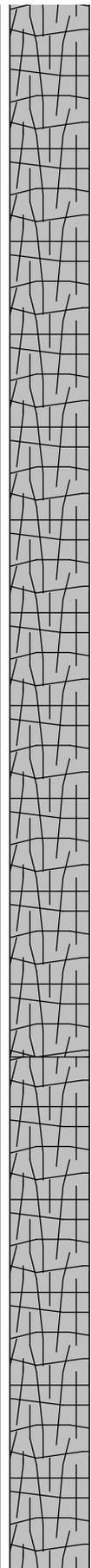


Color
change
from Very

BASALT:
COLOR: Light gray N7 to medium light gray N6. Yellowish gray 5 Y 8/1 calcareous clay on fracture surfaces and in vesicles from 7.6 to 10 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, dikitytaxitic, vesicular basalt. Vesicles are rounded to subrounded and decrease in frequency from 8.3 to 10.8 feet, and from increase from 20.6 feet through the end of the interval. Large vesicles and megavesicles are present from 8.0 to 8.9 feet.
COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral white plagioclase; 20% submillimeter to 1mm blocky to bladed black pyroxene phenocrysts; 10% submillimeter subhedral to euhedral green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Plagioclase alteration observed in various locations.







Semi-scoracious vesiculation and oxidized portion of interval could mark flow division

BASALT:

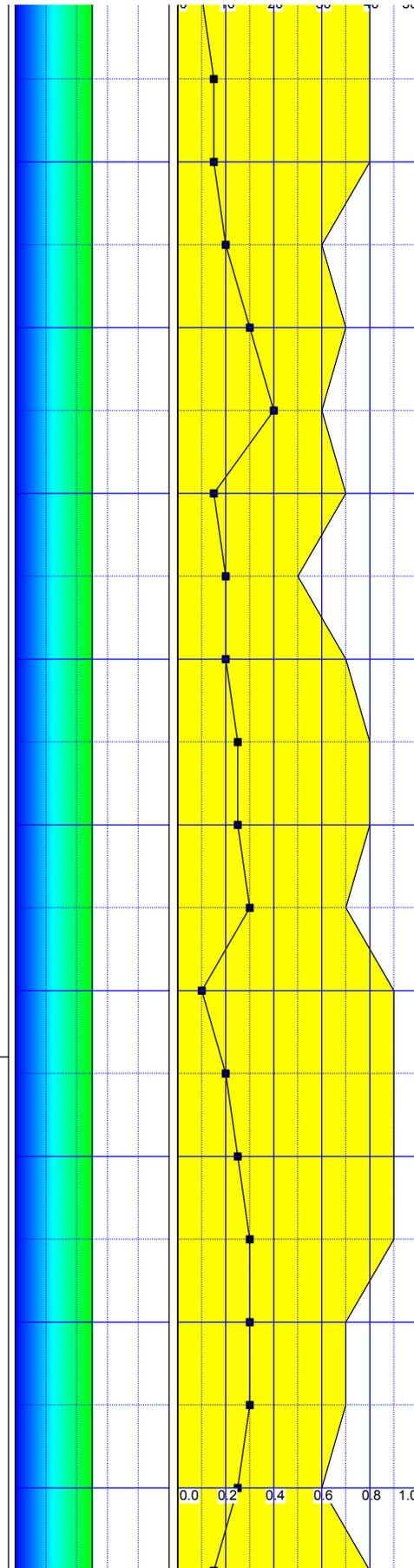
COLOR: Light gray N7 to medium gray N5. light gray color observed in central portion of interval.

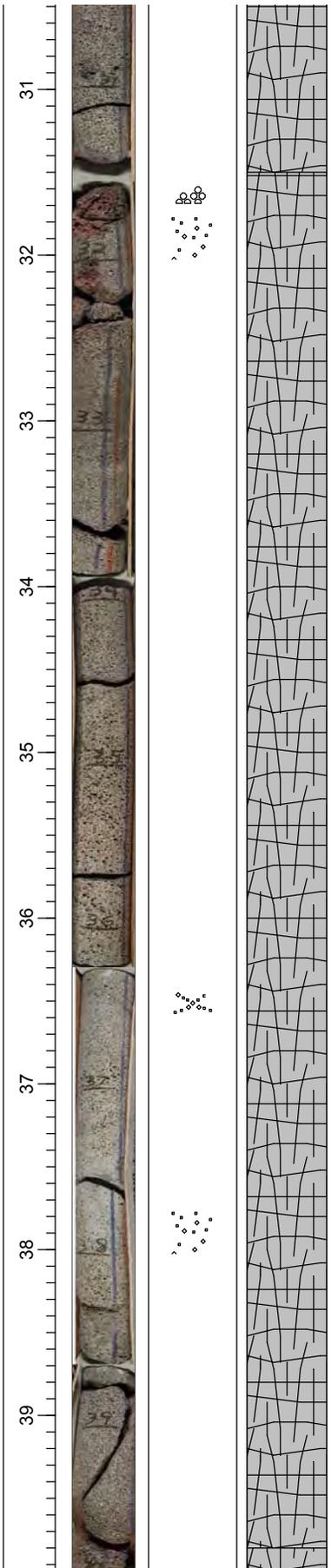
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles are rounded to subrounded and increase in size from 28.3 to 31.5 feet. Flow mold present at 27.4 feet.

COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.

XENOLITHS/AUTOLITHS: None observed.

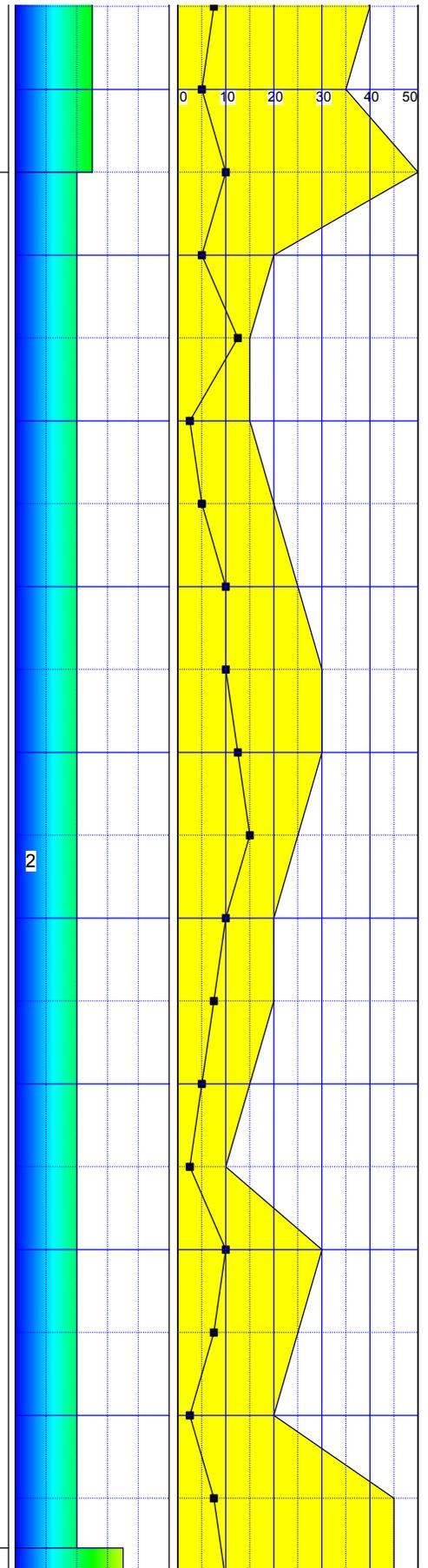
ALTERATION: Pale yellowish brown 10YR 6/2 to dark yellowish orange 10YR 6/6 coatings from 27.4 to 27.7 feet. Grayish red 5R 4/2 oxidation(?) from 27.4 feet through 28.8 feet.

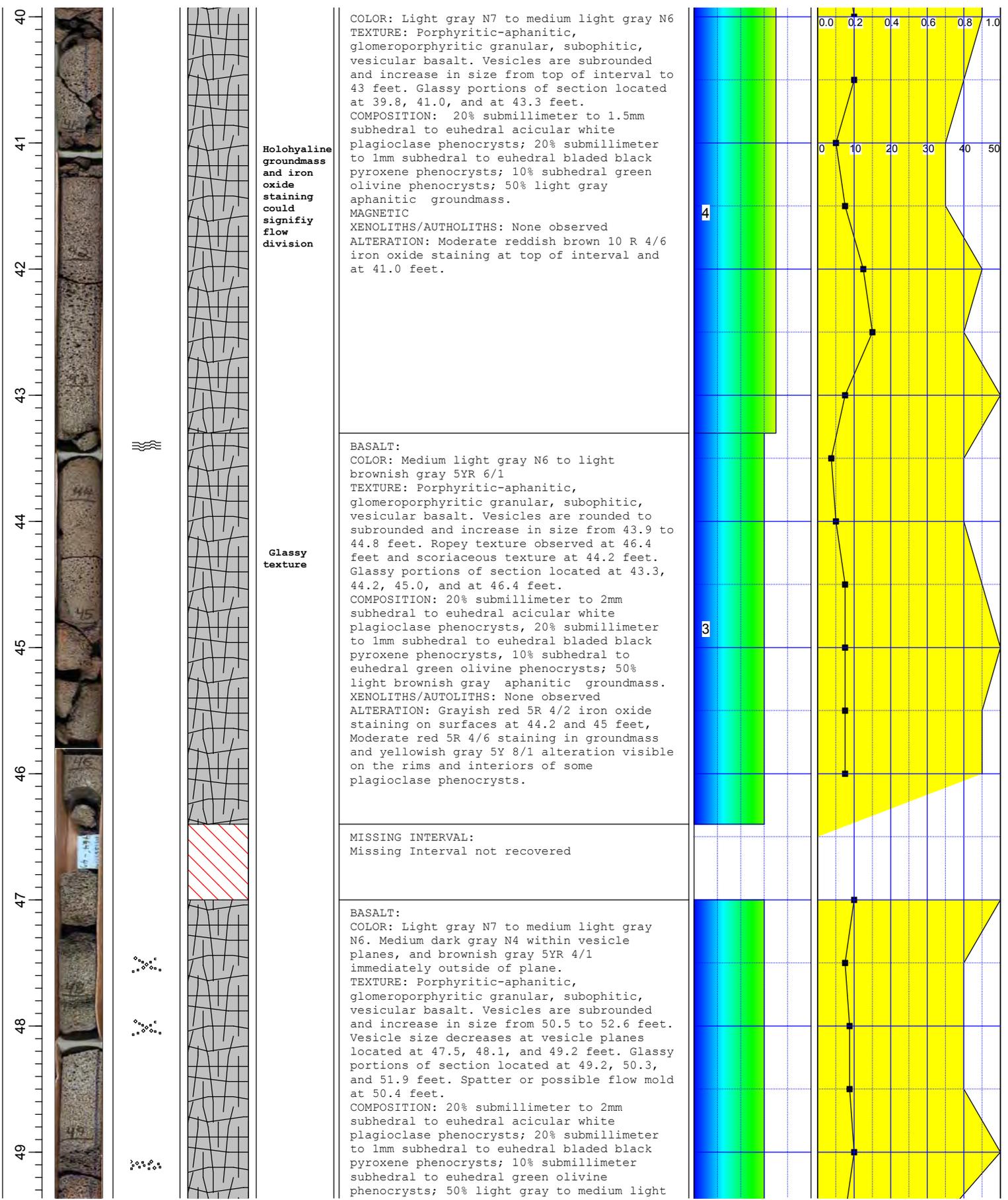


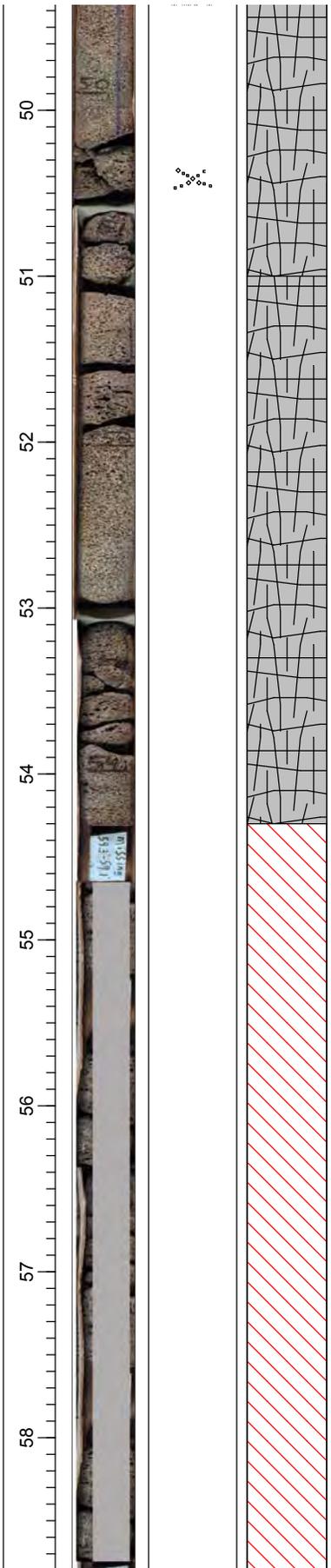


BASALT:
COLOR: Medium gray N5 to very light gray N8. Very light gray color is present in the central portion of the interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Grain size increases from 33.7 to 39.7 feet. Vesicles are subrounded to irregular. Vesicle distribution decreases from 31.8 through 33.8 feet, and increases through remainder of interval. Spatter and flow features are present at the top and bottom portions of the interval.
COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter subhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Minor grayish red 5R 4/2 deposits at top and base of interval. Alteration of plagioclase phenocrysts throughout interval. From 38.7 feet through the end of the interval, very pale orange 10YR 8/2 wavy bands 1mm to 2mm thick.

BASALT:



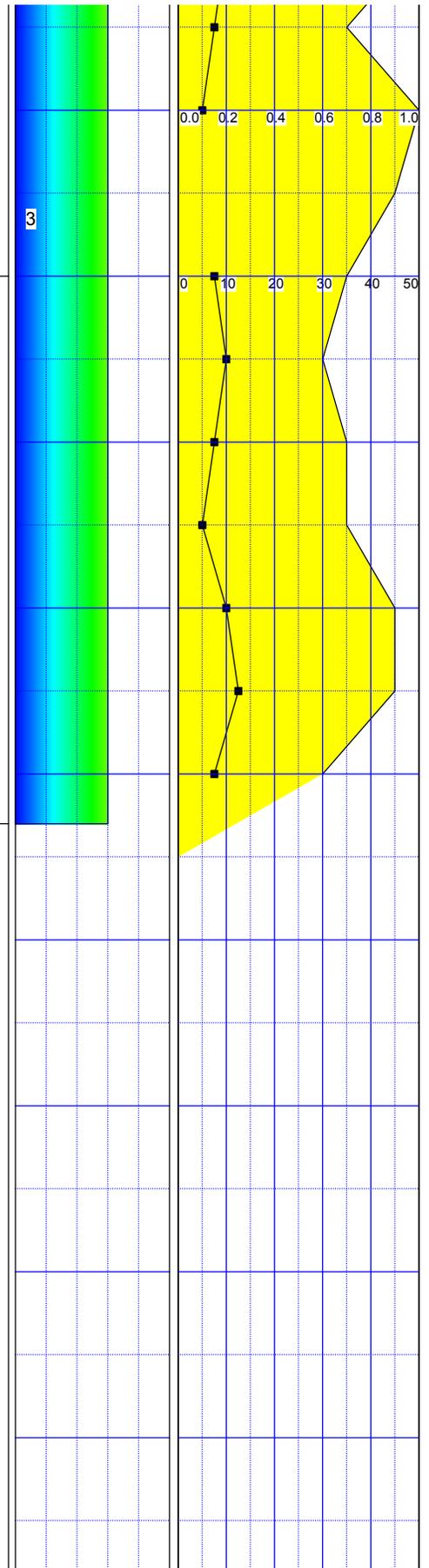


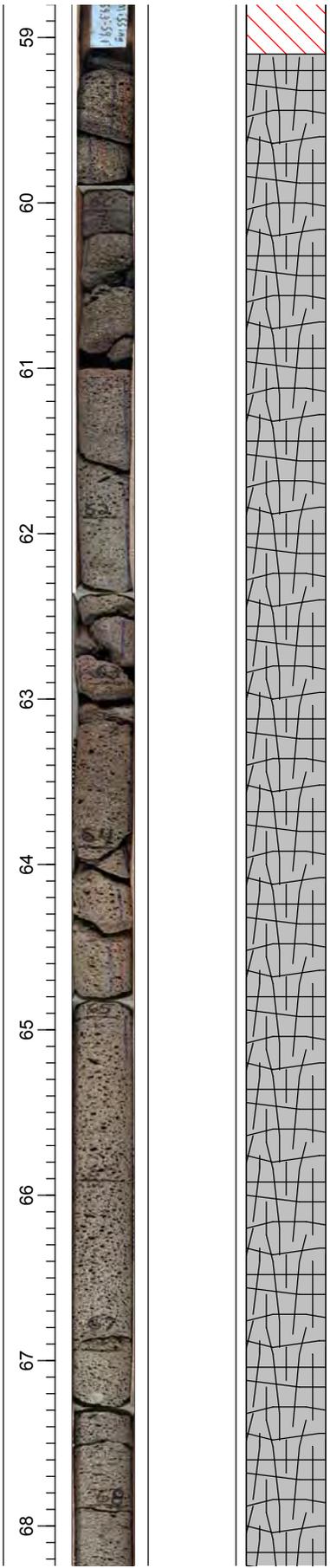


gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: Moderate red 5R 4/6 alteration observed within groundmass, grayish yellow 5Y 8/1 alteration observed along rims and sometimes within plagioclase phenocrysts.

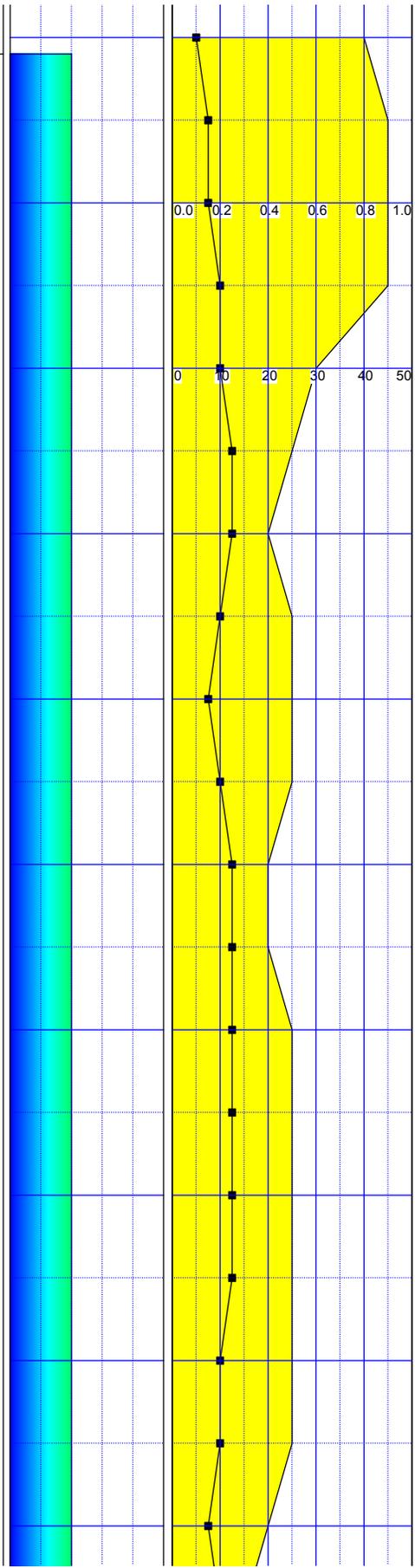
BASALT:
 COLOR: Light brownish gray 5YR 6/1 to medium gray N5. Medium gray color found in aphanitic flow features at top of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles are subrounded to irregular and are uniformly distributed and sized throughout interval. Flow feature at top of interval.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% light brownish gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish orange 10YR 7/4 alteration patches are located throughout the interval. Brownish gray 5YR 4/1 clay is located on fracture surfaces from 53.2 to 53.9 feet. Moderate yellowish brown 10YR 5/4 vesicle fillings located from 51.0 to 51.9 feet.

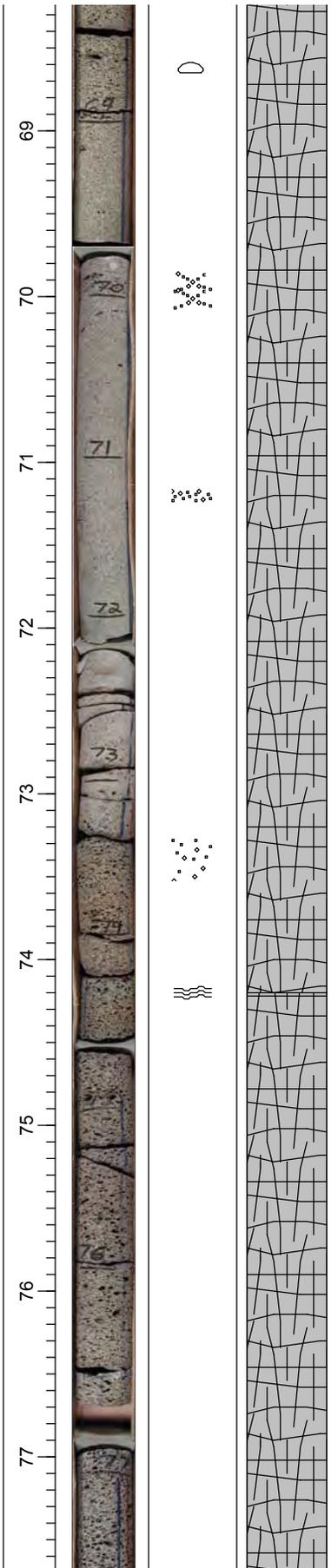
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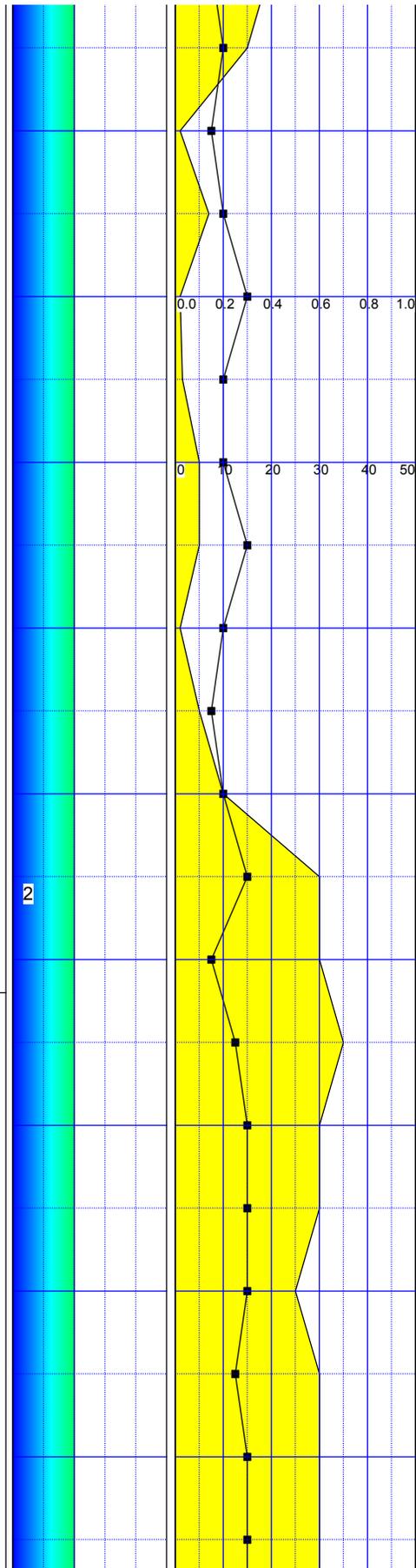


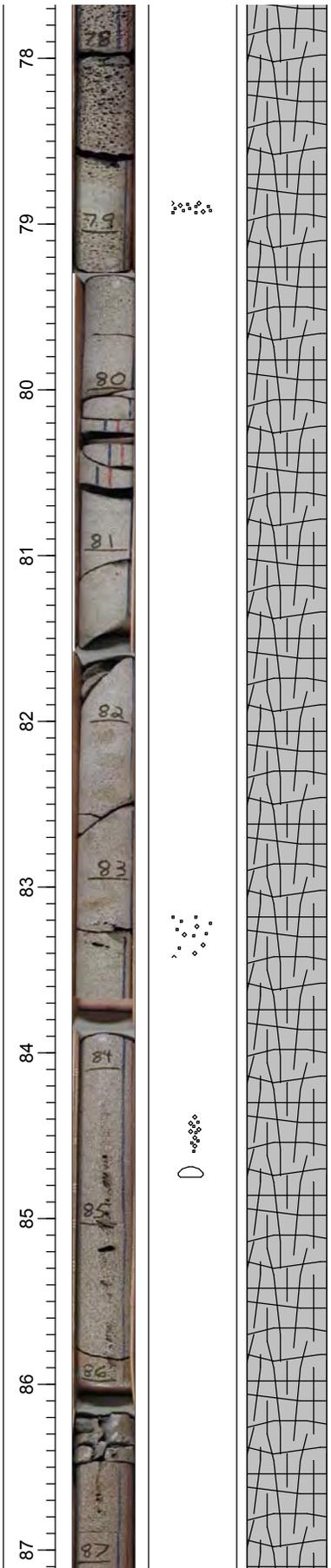
BASALT:
COLOR: Very light gray N8 to medium gray N5. Medium gray color present at top of interval, after which color grades into very light gray in the massive portion of the interval. Color darkens to medium light gray N6 near the base of the interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, dikitytaxitic, massive to vesicular basalt. Vesicles are rounded to irregularly shaped, and increase in size from 64.2 to 67.4 feet and increase in frequency from 72.7 feet to base of interval. Dikitytaxitic texture begins at 68.0 feet and continues through 72.0 feet. Massive texture begins at 72.0 feet and continues through 72.7 feet. At 50.4 feet, a vesicle plane dipping 40 degrees containing numerous 0.3 to 0.5 inch vesicles was observed. Flow mold present at 74.2 feet.
COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter subhedral to euhedral green olivine phenocrysts; 50% very light gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Grayish red 5R 4/2 iron oxide staining, on surface at 63.1 feet, Moderate brown 5YR 4/4 deposit in fracture at 64.0. Olivine and plagioclase phenocryst alteration throughout the interval.



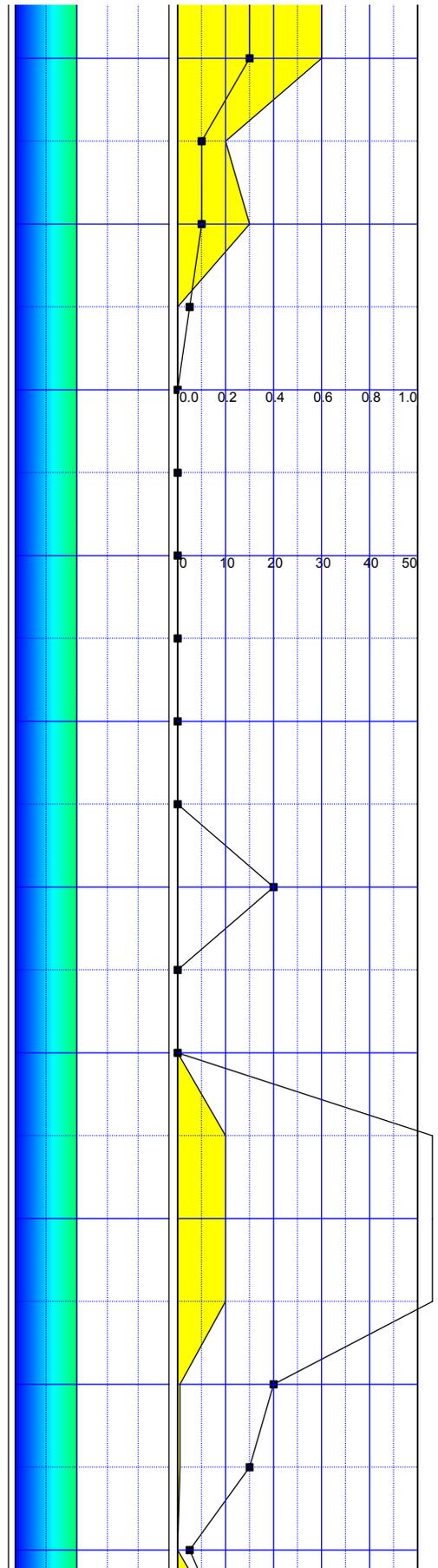


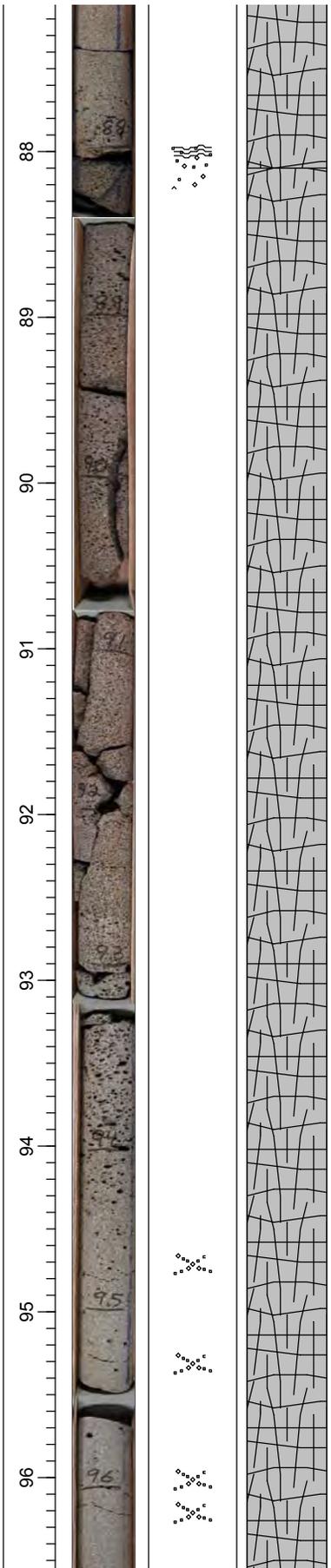
BASALT:
COLOR: Very light gray N8 to medium light gray N6. Light gray N7 color is present at the top and bottom of interval and grades into medium light gray in the interior of the interval. Very light gray color present in the massive portion of the interval. Light olive gray 5Y 6/1 sediment on fracture surface at 76.8 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, dikitytaxitic, massive to vesicular basalt. Vesicles are subrounded to rounded and increase in size and frequency from 74.2 to 78.4 feet. Dikitytaxitic texture begins at 79.2 and continues to 79.7 feet, then resumes from 83.3 to 87.6 feet. Massive texture was observed from 79.7 to 83.3 feet. Spatter or large vesicle plane at 83.3 feet. Flow mold at 88.1 feet.
COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts, 10% submillimeter subhedral to euhedral green olivine phenocrysts; 50% very light gray to medium light gray aphanitic groundmass
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Pale yellowish brown 10YR 6/2 on fracture surface at 78.0 feet. Olivine





phenocrysts are moderately altered throughout the interval.





BASALT:

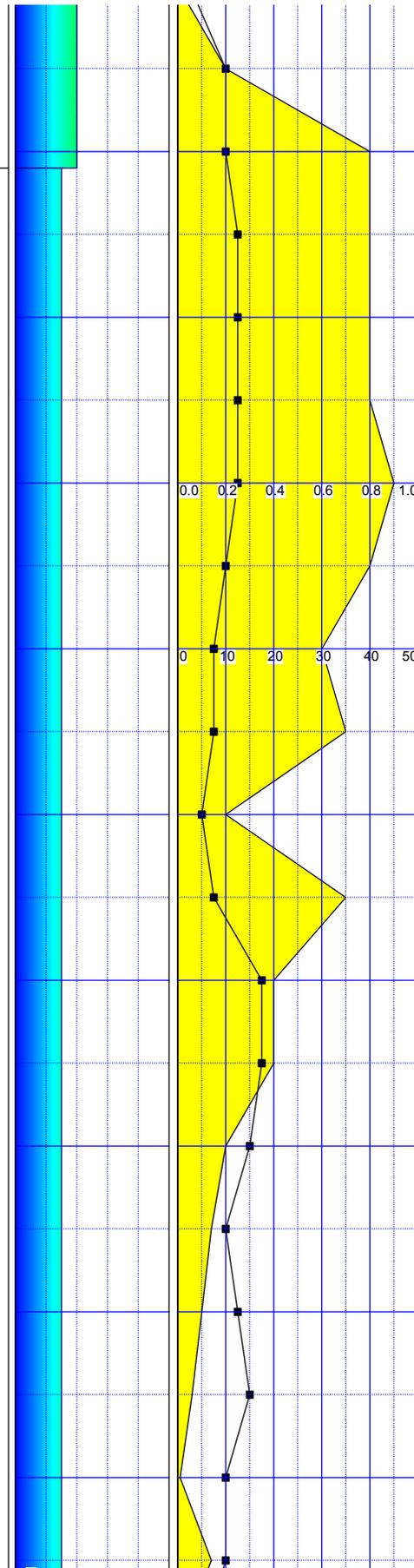
COLOR: Light gray N7 to medium light gray N6, with medium light gray present at the top of the interval. Core is light brownish gray 5YR 6/1 from 88.4 to 92.7 feet. Light gray color is present in the diktytaxitic zone of the interval. Medium light gray zones appear coincident with thicker vesicle zones at 96.8 and 99.2 feet.

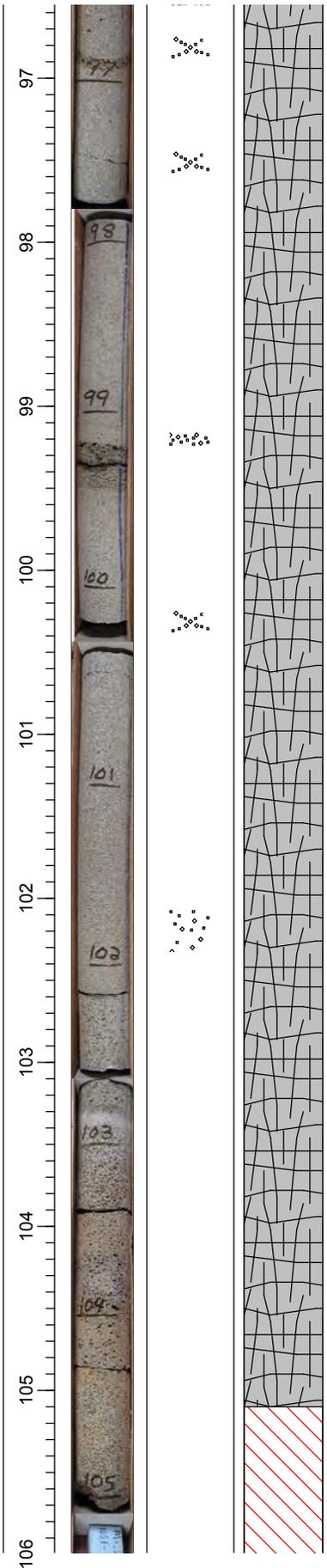
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Vesicular from 88.1 to 96.4 feet, with vesicle planes occurring sporadically throughout the interval. Vesicles are rounded to subrounded and increase in frequency from 102.2 feet through the end of the interval. Diktytaxitic texture is present from 93.9 feet through 102.2 feet. A 0.1' thick plane of massive texture is present at 102.8 feet. Flow mold at top of the interval.

COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm anhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts. 50% very light gray to medium light gray aphanitic groundmass.

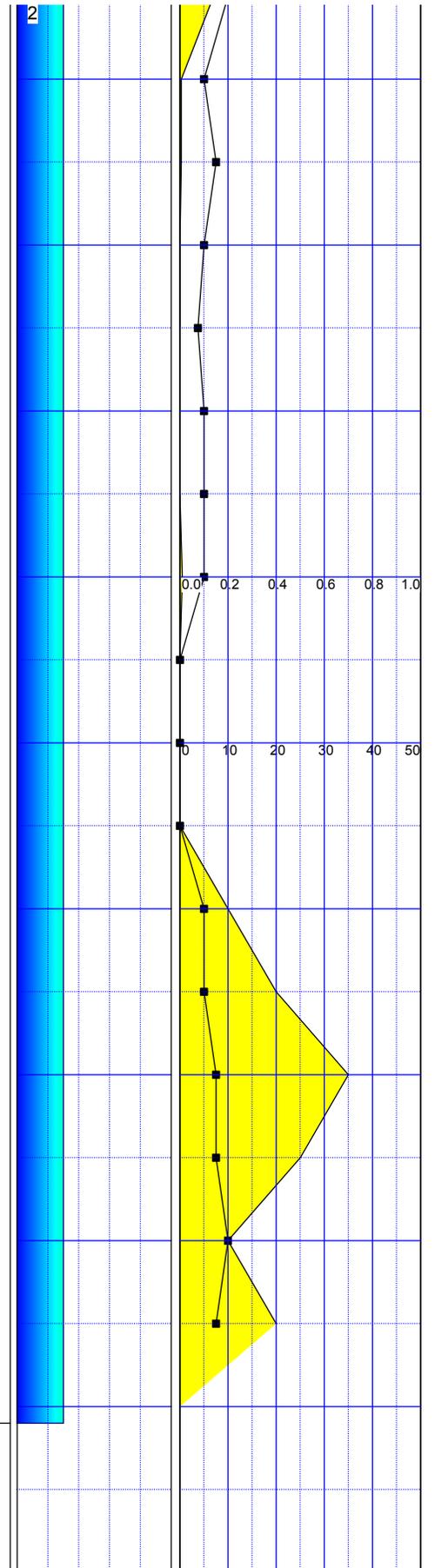
XENOLITHS/AUTOLITHS: None observed

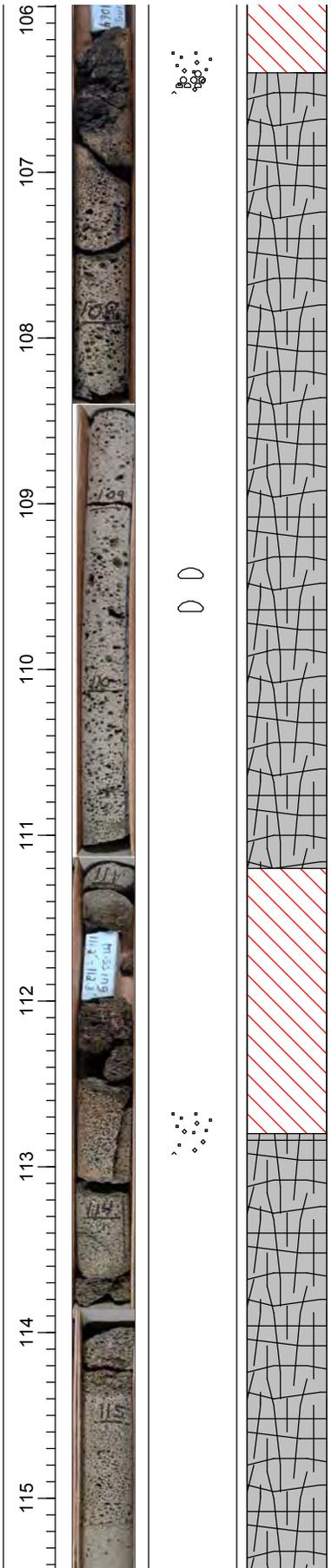
ALTERATION: Brownish gray 5YR 4/1 deposit at 104.9 feet





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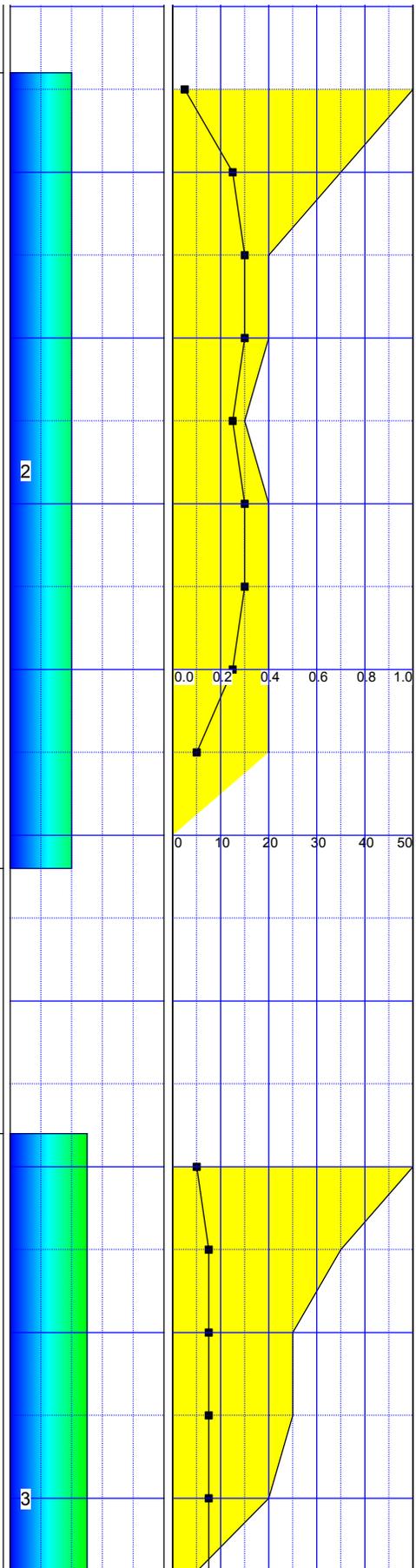


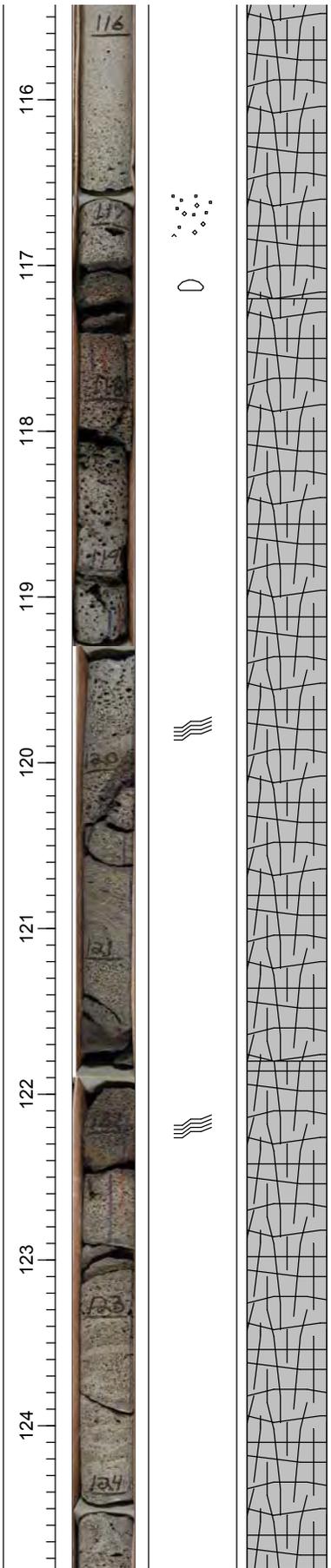


BASALT:
COLOR: Medium dark gray N4 to very light gray N8. Medium dark gray area is present in top portion of interval, with color grading into very light gray in the middle of the interval and to medium light gray N6 at the end of the interval. Dark yellowish orange 10YR 6/6 sediment coatings on fracture surfaces from 106.4 to 106.7 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, intergranular to subophitic, vesicular basalt. Vesicles are rounded to irregularly shaped. Spatter zone from top of interval to 107.0 feet.
COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 10% anhedral to euhedral black, bladed pyroxene phenocrysts; 50% medium dark gray to very light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Brownish gray 5YR 4/1 clay on fracture surface at 111.2 feet.

MISSING INTERVAL:
 Missing Interval not recovered

BASALT:
COLOR: Medium gray N5 to light gray N7. Medium gray color present at top and bottom of interval, light gray in the interior.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles are subrounded to irregular-shaped and decrease in frequency from beginning of interval. Texture grades into diktytaxitic from 115.6 feet. Vesicle frequency increases from 116.5 feet through the end of the interval.
COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% Medium gray to light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Brownish gray 5YR 4/1 oxidation

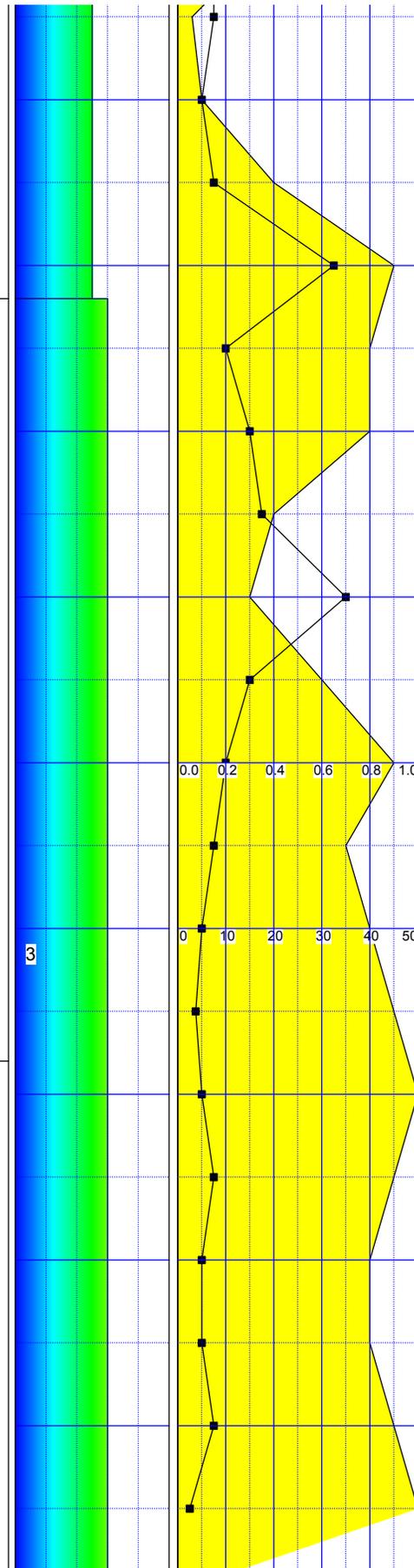


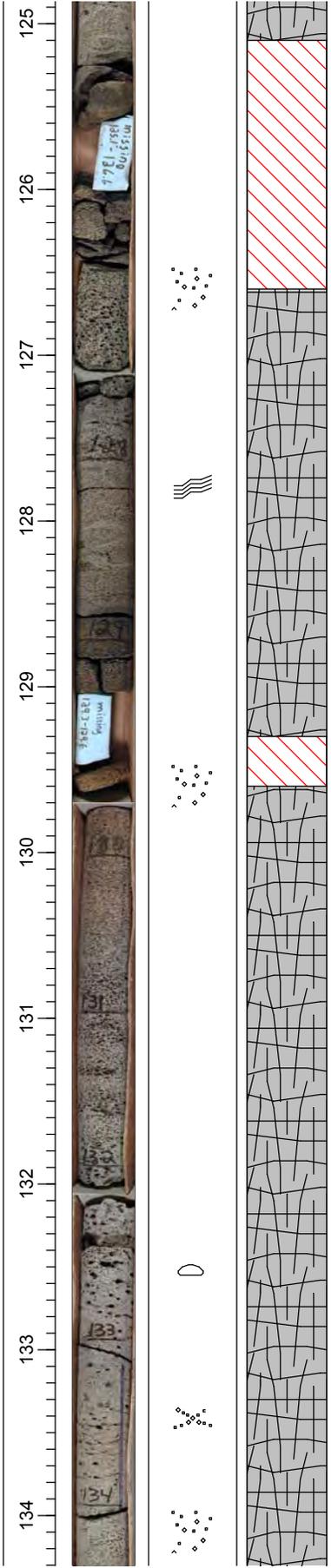


surface at 112.8 feet, olivine phenocrysts altered throughout interval.

BASALT:
COLOR: Grayish brown 5YR 3/2 to medium gray N5 at top and base of interval, and medium dark gray N4 from 119.9 to 121.7 feet. Light gray N6 to medium light gray N5 through remainder of interval, excepting alteration surfaces. Pale yellowish brown 10YR 6/2 sediment located from 117.2 to 117.6 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, intergranular, vesicular basalt. Scoriaceous texture from 117.2 to 117.6. and from 121.3 to 121.8 feet. Vesicles are subrounded to irregular-shaped and increase in size from 117.2 to 119.6 feet. Vesicular flow features are present from 119.8 through 121.4 feet.
COMPOSITION: 20% submillimeter to 1mm anhedral to subhedral acicular white plagioclase phenocrysts; 15% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 15% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% medium gray N4 to grayish red 5R 4/2 aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Brownish gray 5YR 4/1 to grayish red 5R 4/2 oxidation from 117.2 to 117.9 feet and from 122.1 to 122.3 feet. Grayish red alteration also pervasive throughout groundmass. Extensive alteration of plagioclase and olivine phenocrysts throughout the interval.

BASALT:
COLOR: Medium dark gray N4 from 121.8 through 122.2 feet, light gray N7 from 122.2 through 124.8 feet. Moderate reddish brown 10R 4/6 sediment from 122.1 to 122.4 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to irregular shaped vesicles present throughout interval, with vesicular flow features present from 122.5 to 124.8 feet. Glassy texture at top and bottom of interval.
COMPOSITION: 20% submillimeter to 1mm anhedral to subhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral blocky black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Brownish gray 5YR 4/1 to grayish red 5R 4/2 oxidation from 124.8 to 125.1 feet. Pervasive alteration of plagioclase and olivine phenocrysts.





MISSING INTERVAL:
Missing Interval not recovered

BASALT:
COLOR: Medium gray N5 color present from 126.6 to 127.0 feet, medium light gray N6 color present from 127.0 to 128.8 feet, and medium dark gray N4 observed from 128.8 through 129.3 feet. Pale yellowish brown 10YR 6/2 sediment from 126.6 to 127.0 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles are subrounded to irregular shaped and present throughout the interval. Vesicle flow features from 128.0 to 129.7 feet.
COMPOSITION: 20% submillimeter to 1mm anhedral to subhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral blocky black pyroxene phenocrysts; 15% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Brownish gray 5YR 4/1 surface from 128.8 to 129.3 feet. Pervasive alteration of plagioclase and olivine phenocrysts.

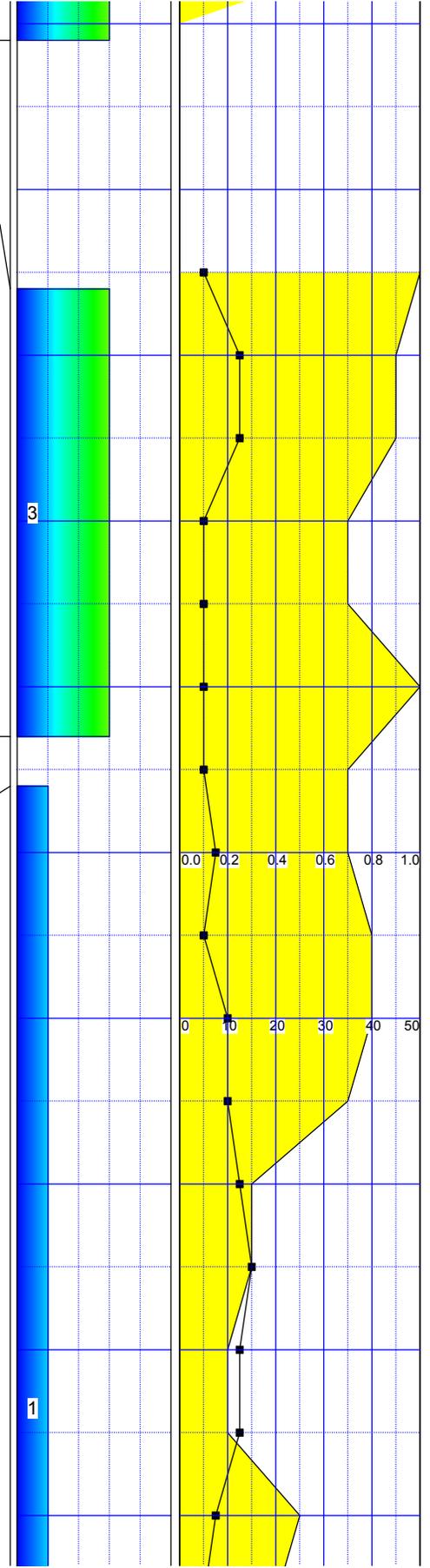
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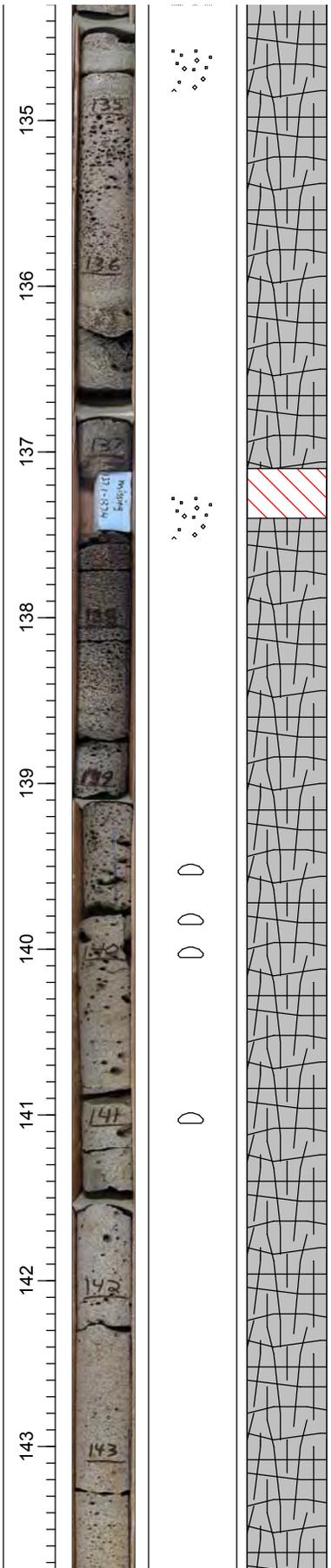
BASALT:
COLOR: Light gray N7 to medium light gray N6. Medium gray N5 color from 136.4 to 136.6 feet (in scoriaceous zone). Dark yellowish orange 10YR 6/6 sediment in vesicles from 129.6 feet through 130.5 feet.

TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles are subrounded to rounded and increase in size from 129.6 to 133.4 feet. Diktytaxitic texture from 132.7 to 134.1 feet. Vesicles resume from 134.1 to 137.1 feet. Numerous vesicle planes between 133.4 and 133.8 feet.

COMPOSITION: 20 % submillimeter to 1mm anhedral to subhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.

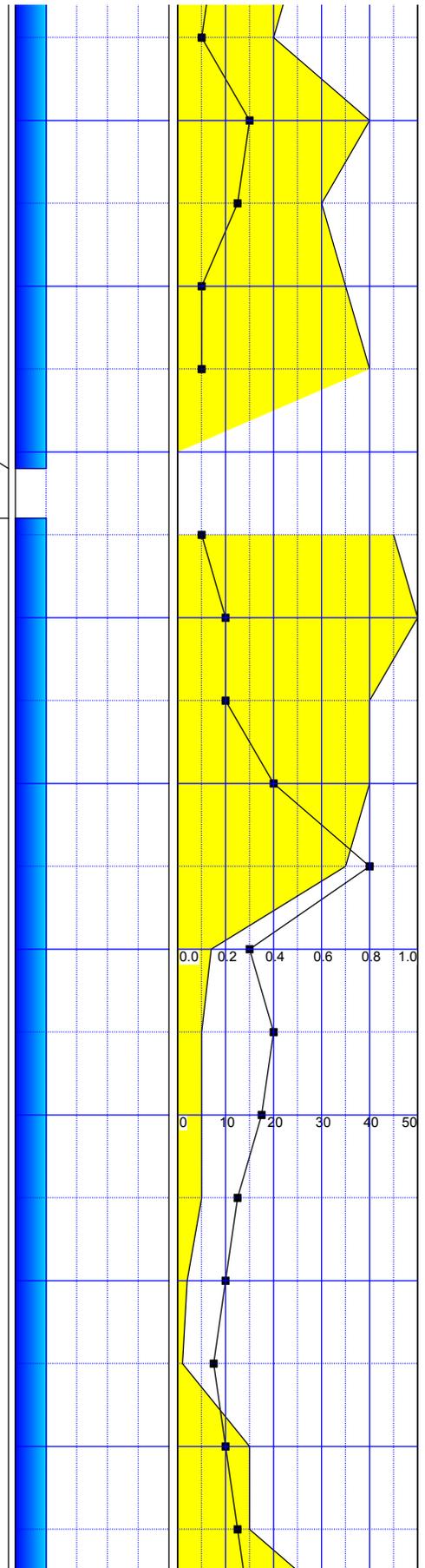
XENOLITHS/AUTOLITHS: Possible autolith at 136.4 feet, otherwise none observed
ALTERATION: Extensive alteration of plagioclase and olivine phenocrysts.

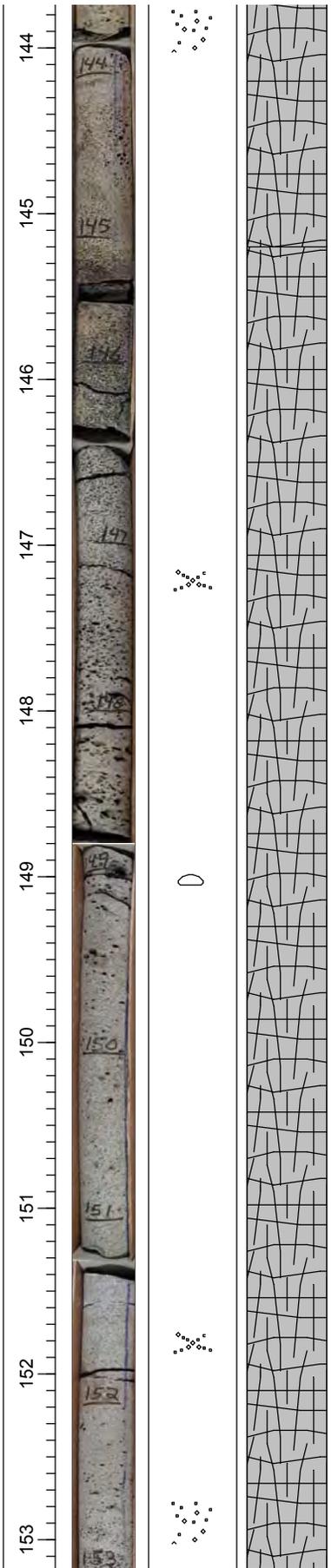




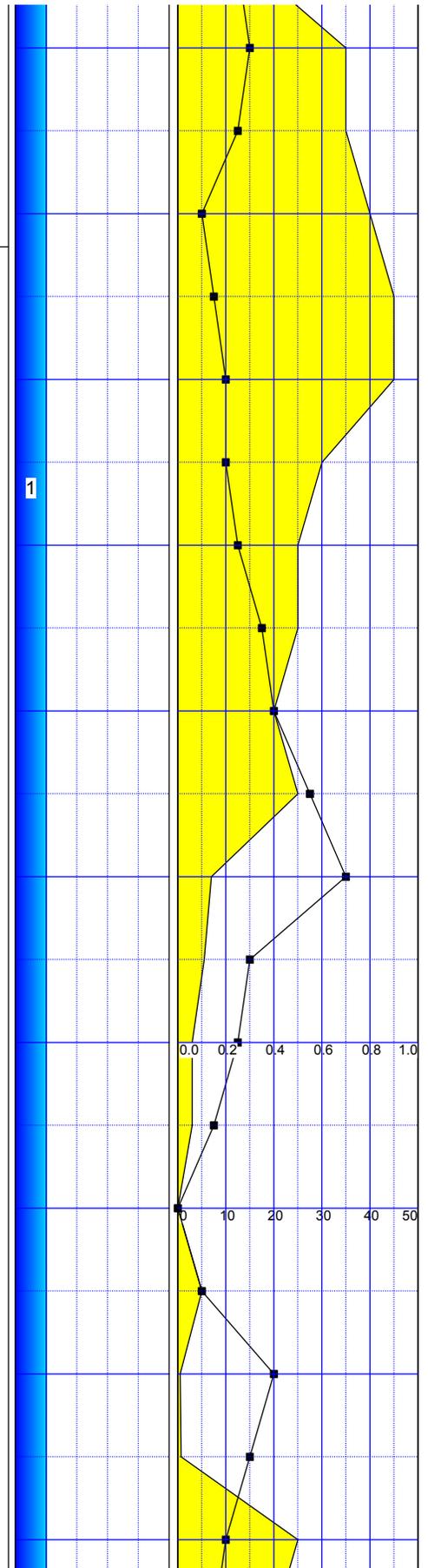
MISSING INTERVAL: Interval not recovered

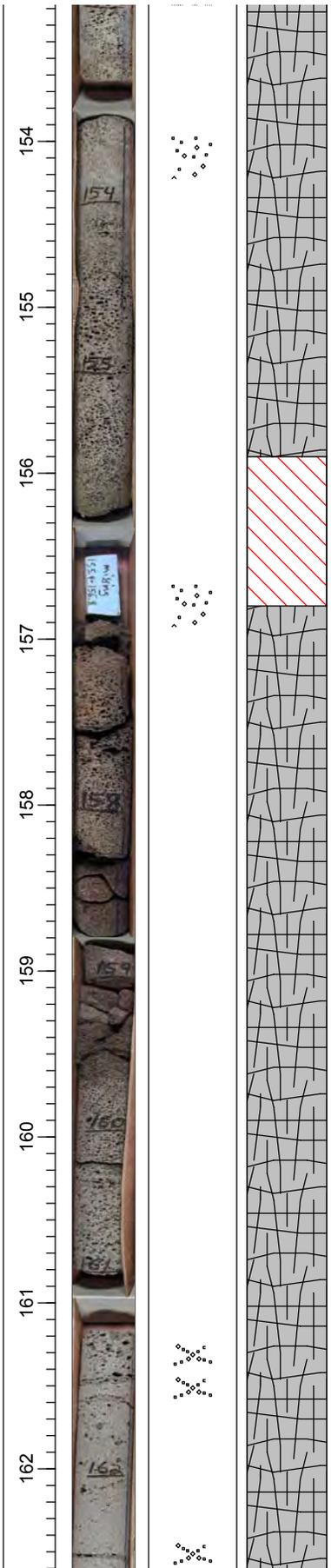
BASALT:
COLOR: Medium gray N5 from 137.4-137.9 feet and again at bottom of interval. Remainder of interval ranges from very light gray N8 to medium light gray N6. Grayish orange 10YR 7/4 sediment on fracture surface at 137.5 feet, Yellowish gray 5Y 8/1 sediment deposits on fracture surface at 137.6 feet. Grayish orange 10YR 7/4 sediment patches throughout the interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt, Vesicles are subrounded to rounded and increase in size from 137.4 to 141.1 feet. Diktytaxitic texture starts at 139.3 feet and continues through 143.9 feet. Diktytaxitic texture grades into vesicles from 143.7 feet to the end of the interval.
COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
MAGNETIC
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Grayish red 5R 4/2 oxidation at 137.4 feet. Grayish red 5R 4/2 alteration present throughout groundmass. Extensive alteration of plagioclase and olivine phenocrysts.





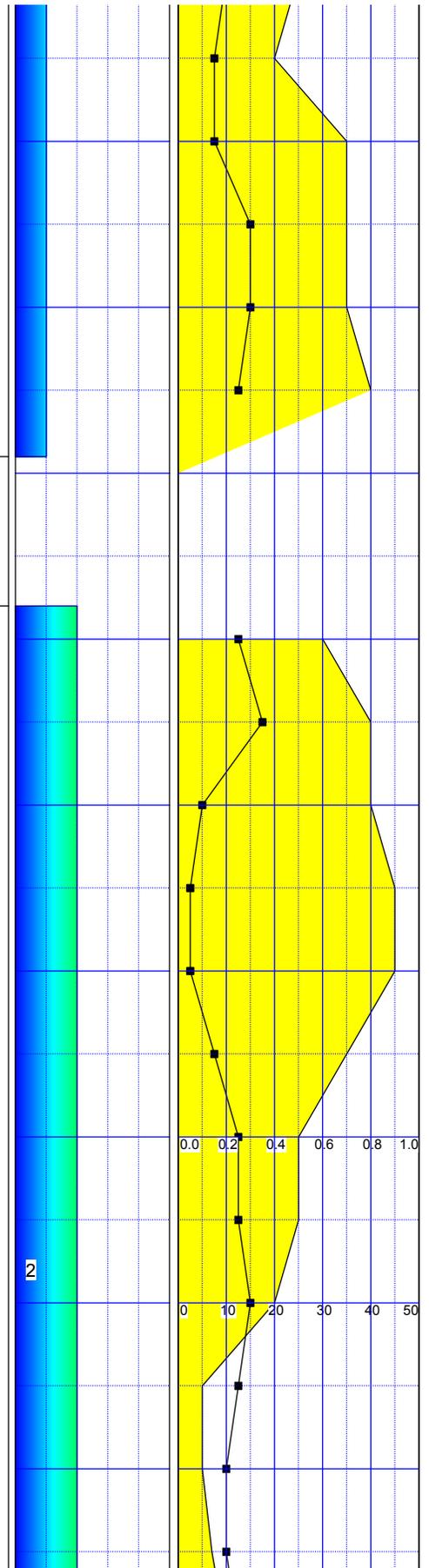
BASALT:
COLOR: Medium gray N5 from the beginning of the interval to 146.6 feet and from 155.7 feet to the end of the interval. From 146.6 feet through 155.7, very light gray N8 exists and grades into light gray N7 through the rest of the interval. Light olive gray 5Y 6/1 sediment present from 145.2 to 145.6 feet and from 146.2 to 146.4 feet.
TEXTURE: Porphyritic-aphanitic, granular, subophitic, diktytaxitic to massive, vesicular basalt. Vesicles are subrounded and increase in size and decrease in frequency from 145.2 to 149.5 feet. Dictytaxitic texture gradually begins at 149.1 feet and continues through 152.7 feet, with small massive layers interspersed. Vesicle concentrations resume from 152.8 feet to the end of the interval.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm subhedral to euhedral green olivine phenocrysts; 50% very light gray to light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Grayish red 5R 4/2 oxidation surface present at 155.9 feet. Grayish red alteration present in groundmass throughout the interval. Olivine phenocrysts moderately altered.

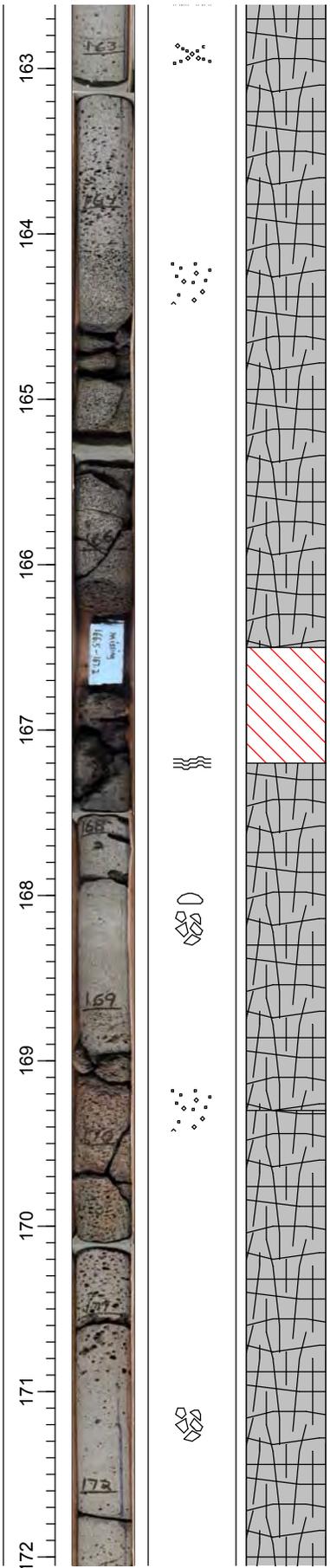




MISSING INTERVAL: Interval not recovered

BASALT:
 COLOR: Medium light gray N6 to medium gray N5 to brownish gray 5YR 4/1 color from 156.8 to 160.7 feet and from 164.7 to 166.2 feet Color is very light gray N8 to light gray N7 from 160.7 through 164.7 feet. Moderate reddish brown 10R 4/6 vesicle-filling sediment from 157.3 to 157.7 feet and from from 166.4 to 166.5 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, dikitytaxitic to massive, vesicular basalt. Aphanitic texture present at the top and bottom of the interval and in scoriaceous zones. High concentrations of vesicles present from 156.8 to 159.7 feet. Vesicles are irregular to subrounded in shape and grade into a massive to dikitytaxitic texture with minor vesiculation and vesicle planes from 161.5 to 163.0 feet. High vesicle concentrations resume at 164.3 feet and continue through the end of the interval. Scoria is present from 159.3 to 158.8 feet, 164.8 to 165.0 feet, and from 166.2 feet to the end of the interval.
 COMPOSITION: 20% 1mm to 2.5mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter anhedral to subhedral green olivine phenocrysts; 50% very light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Possible autolith of rubble or flow top at 166.2 Otherwise none observed.
 ALTERATION: Grayish red 5R 4/2 oxidation is present at 155.8 feet and from 159.0 to 159.4 feet. Alteration of olivine phenocrysts pervasive. Minor alteration of plagioclase phenocrysts.

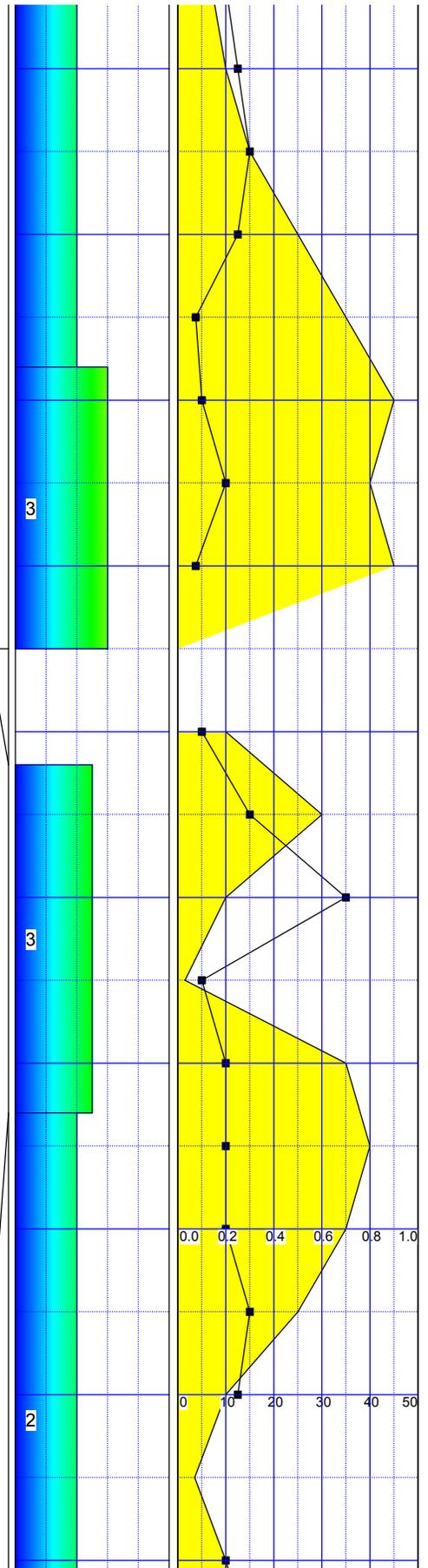


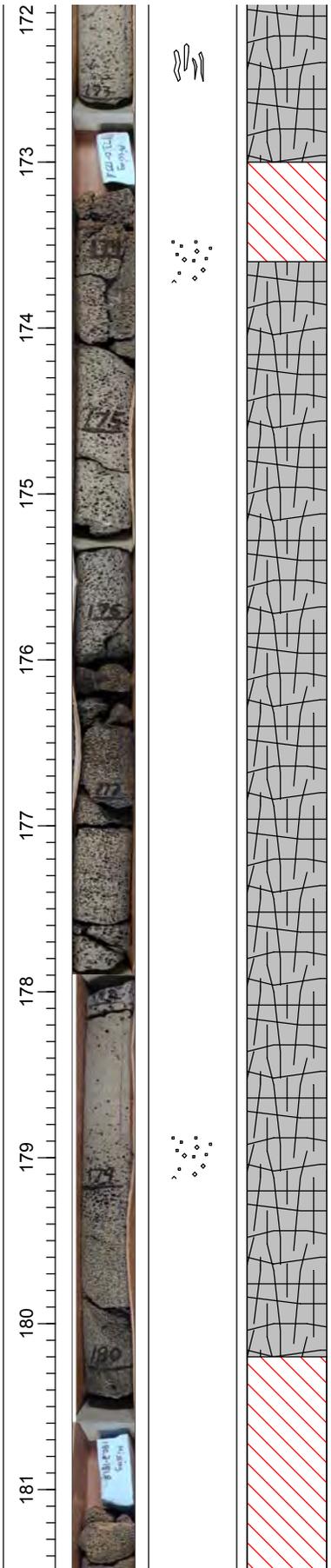


MISSING INTERVAL: Interval not recovered

BASALT:
COLOR: Medium light gray N6 to medium gray N5. Medium gray colored basalt located at top of interval. Very light gray N8 sediment located on fracture surfaces at 167.9 feet, 168.3 feet, and at 169.3 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, massive to diktytaxitic, vesicular basalt. Vesicles are rounded to subrounded and grade into diktytaxitic texture at 167.9 feet and massive texture from 168.3 to 169.0 feet. Vesicles resume from 169.0 feet to the end of the interval. Flow mold located at 167.2 feet.
COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter anhedral to subhedral green olivine phenocrysts; 50% medium light gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Possible autolith at 168.2 feet
ALTERATION: Moderate reddish brown 10R 4/6 oxidation from 167.2 to 167.8 feet. Olivine phenocrysts moderately altered.

BASALT:
COLOR: Brownish gray 5YR 4/1 to medium gray N5 from 169.3 to 170.2 feet. The remainder of the interval is light gray N6 grading again into medium gray N5 at the base of the interval. Very light gray N8 sediment located on fracture surfaces at 171.0, 172.1, and at 173.0 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt, Vesicles are rounded to subrounded and present from top of interval through 171.2 feet. From 171.3 to 172.3, texture is massive with minor vesicles and a vesicle plane at 172.4 feet. Vesicles resume at 172.5 feet and continue through the end of the interval. Flow mold



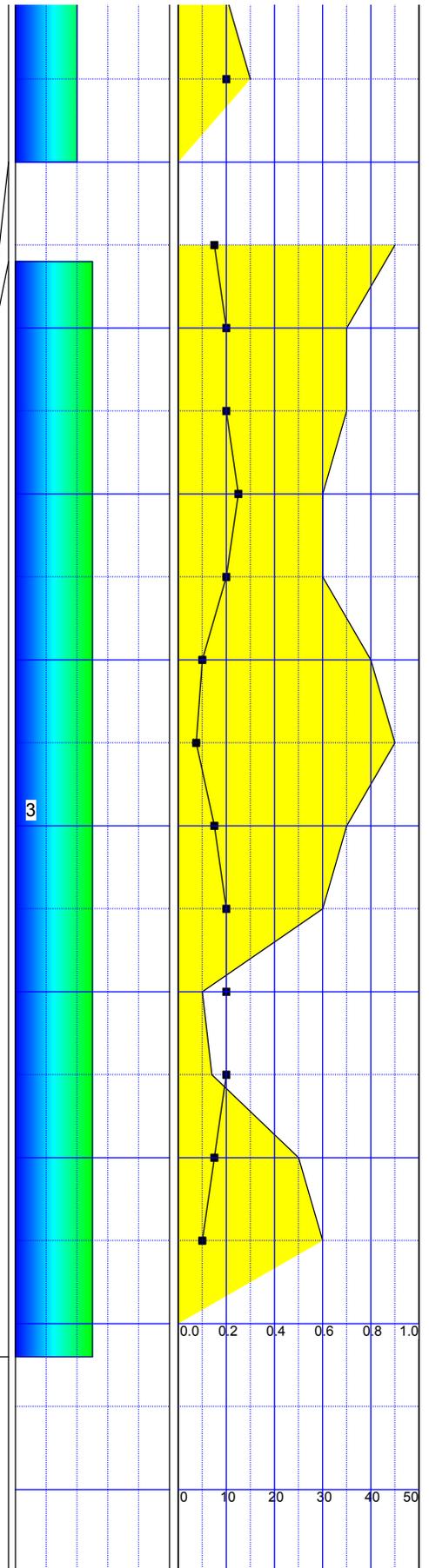


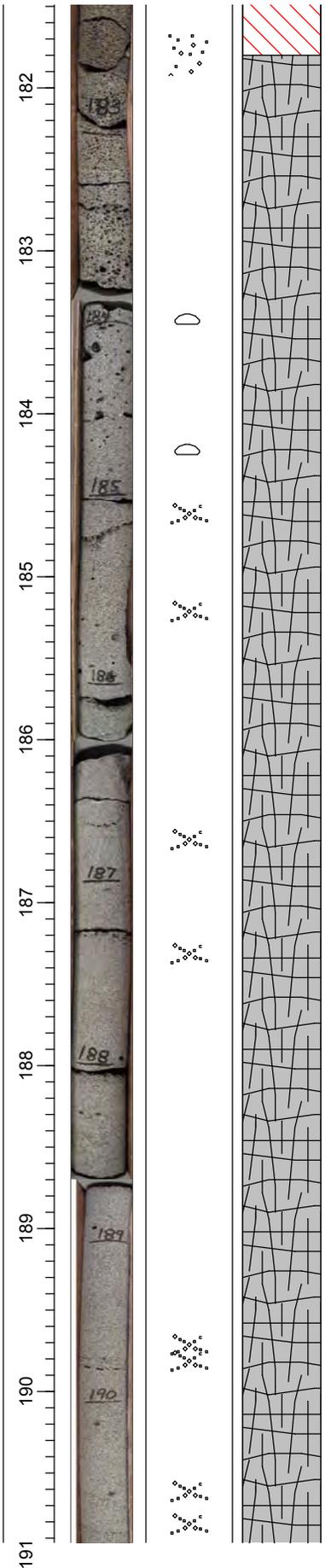
located at 173.0 feet.
 COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter anhedral to subhedral green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Alteration of olivine phenocrysts present throughout interval.

MISSING INTERVAL: Interval not recovered

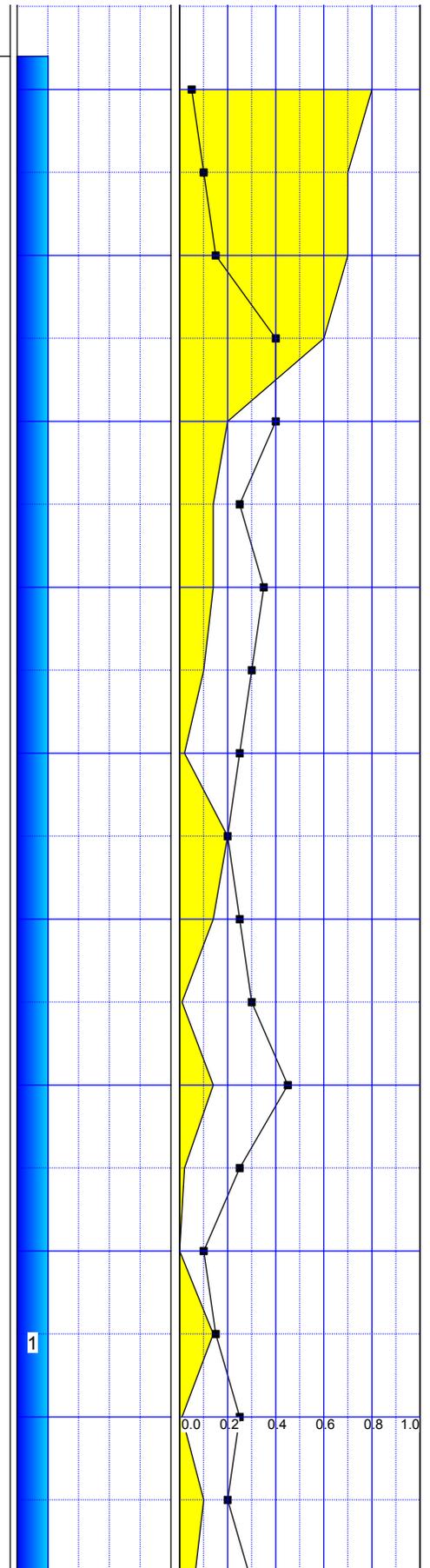
BASALT:
 COLOR: Light gray N7 to Medium gray N5. Medium gray color is present at the top and bottom portions of the interval, with light gray found in the massive region. medium light gray color N6 is found in the vesicular portions of the core. Very light gray N7 sediment present on fracture surfaces at 174.6, 178.0, 179.9, and 180.2 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles are rounded to subrounded and grade into massive texture from 178.1 to 178.9 feet after which they continue through the base of the interval.
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter anhedral to subhedral green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: Brownish gray 5YR 4/1 oxidation from 173.6 to 174.0 feet and at 179.7 feet. Alteration of olivine and plagioclase phenocrysts is common throughout the interval.

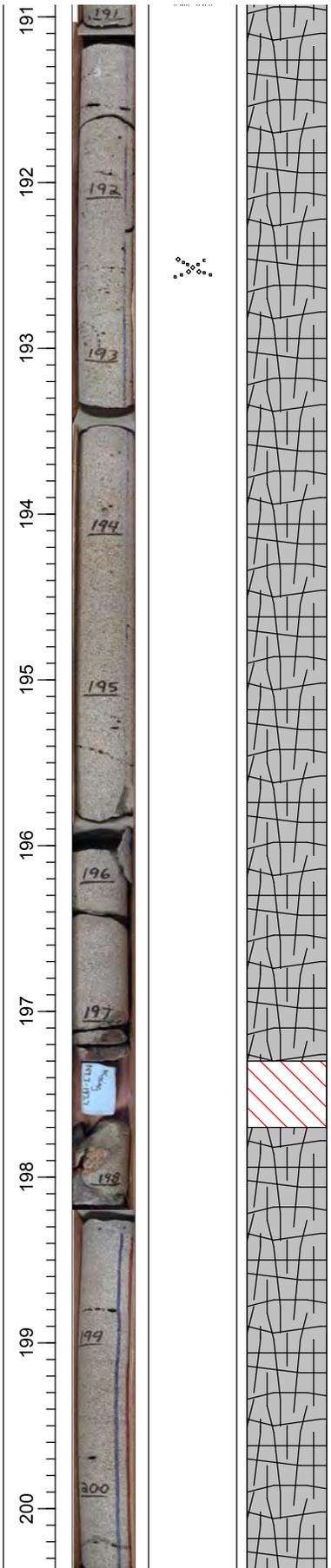
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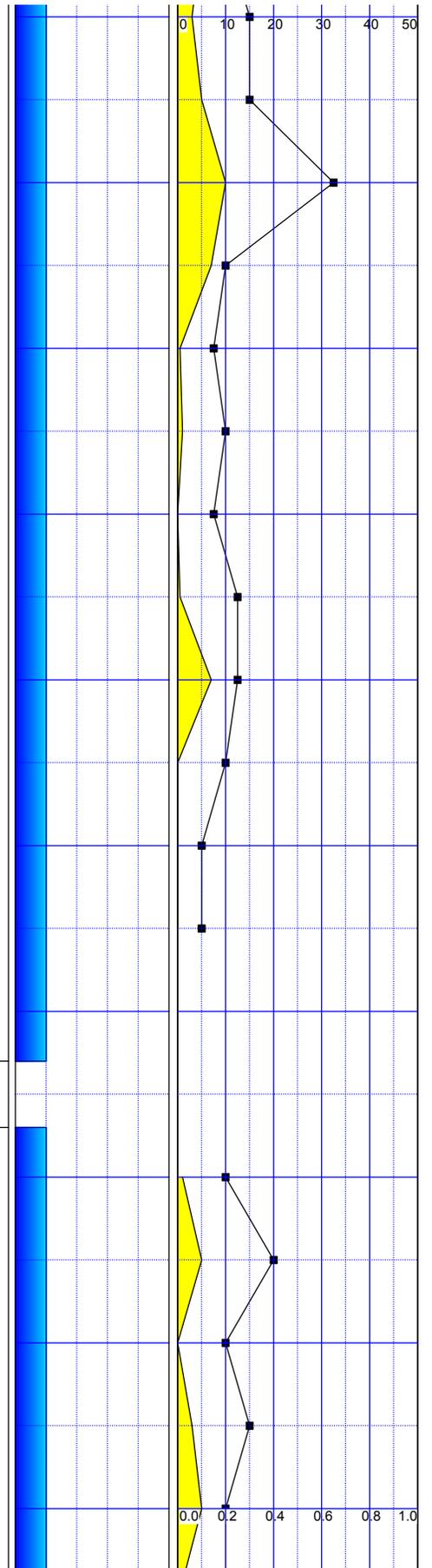
BASALT:
COLOR: Light gray N7 to medium light gray N6. Grayish orange 10YR 7/4 sediment vesicle-fillings from top of interval to 182.3 feet. Very light gray N6 sediment present on fracture surfaces at 186.1, 191.0, and 191.5 feet. White N9 sediment vesicle filling at 184.6 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles are present from beginning of interval to 183.9 feet, after which they grade into a diktytaxitic texture with minor vesicles, vesicle planes, and sporadic megavesicles through the end of the interval. Vesicle shape varies between subrounded to irregular shaped.
COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter subhedral to euhedral green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed
ALTERATION: Minor grayish red 5R 4/2 oxidation at 181.8 feet. Pervasive alteration of olivine phenocrysts and minor plagioclase phenocryst alteration.

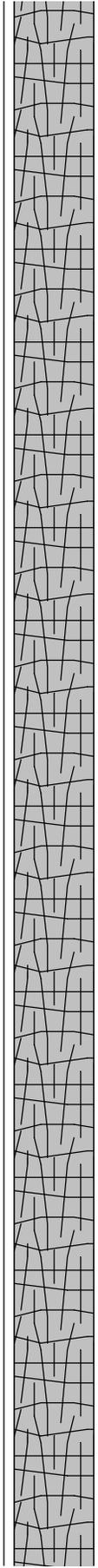




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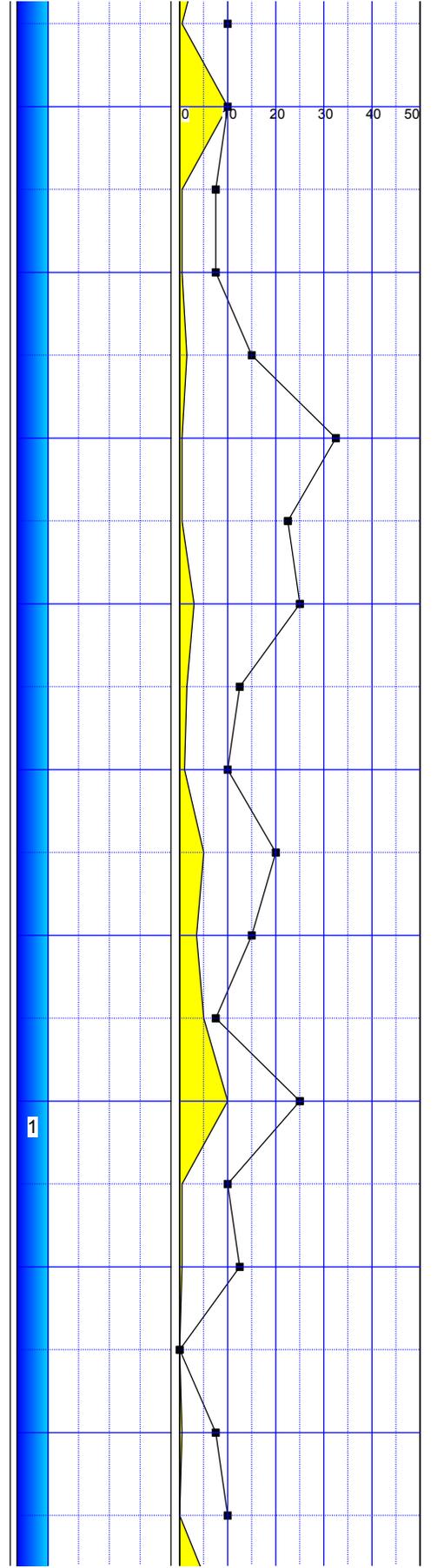
BASALT:
 COLOR: Light gray N7 to medium light gray N6. Medium light gray color present in vesicle planes and at top of interval. Pale yellowish brown 10YR 6/2 sediment on fracture surface from 197.7 to 198.0 feet. Light olive gray 5Y 6/1 sediment on fracture surface from 201.2-201.3 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic basalt with minor vesicles. Diktytaxitic texture from top of interval through base with minor vesiculation, and vesicle columns. Vesicle planes are distributed throughout the interval, and vesicles range in shape from rounded to subrounded.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral bladed black pyroxene phenocrysts; 10% submillimeter to 1mm anhedral to euhedral green olivine phenocrysts; 50% light gray to medium light

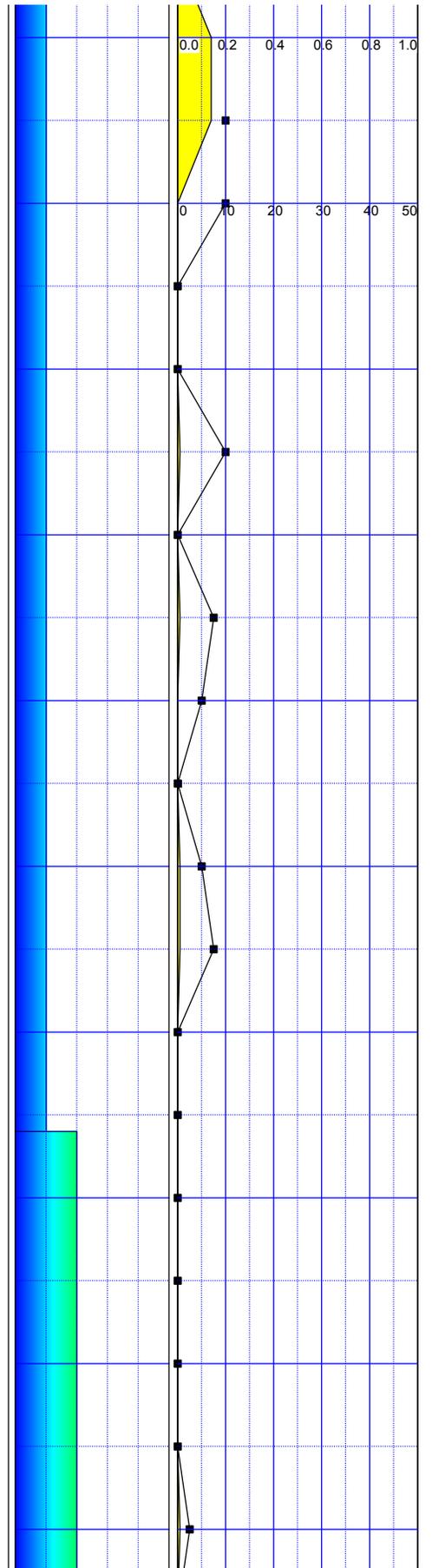
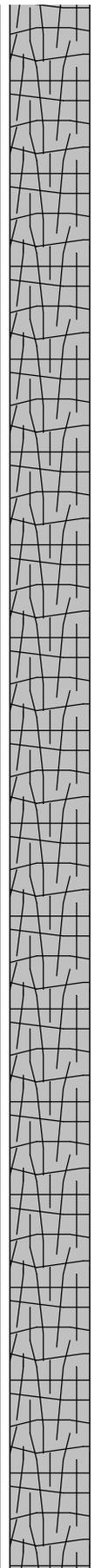
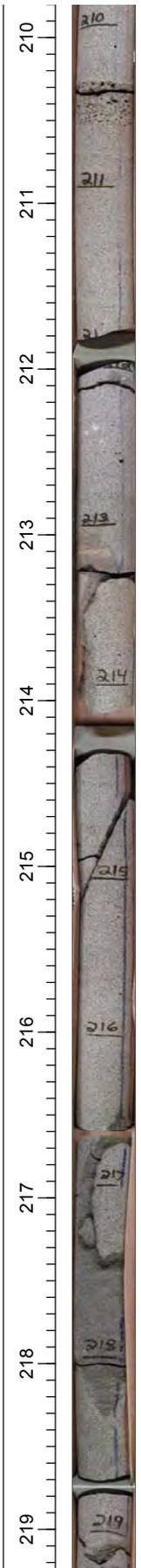


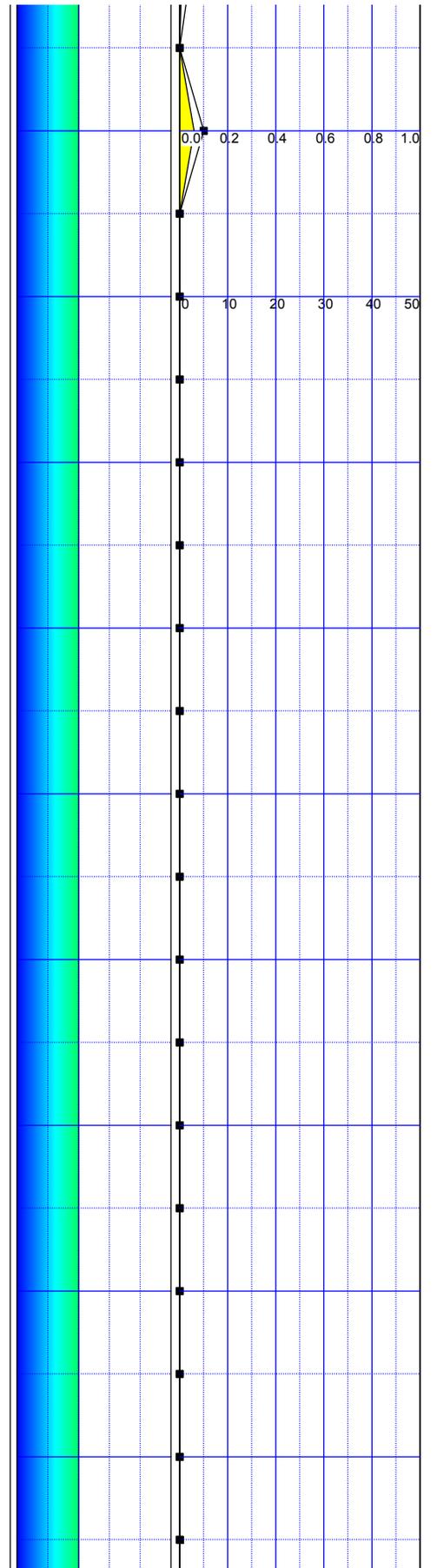
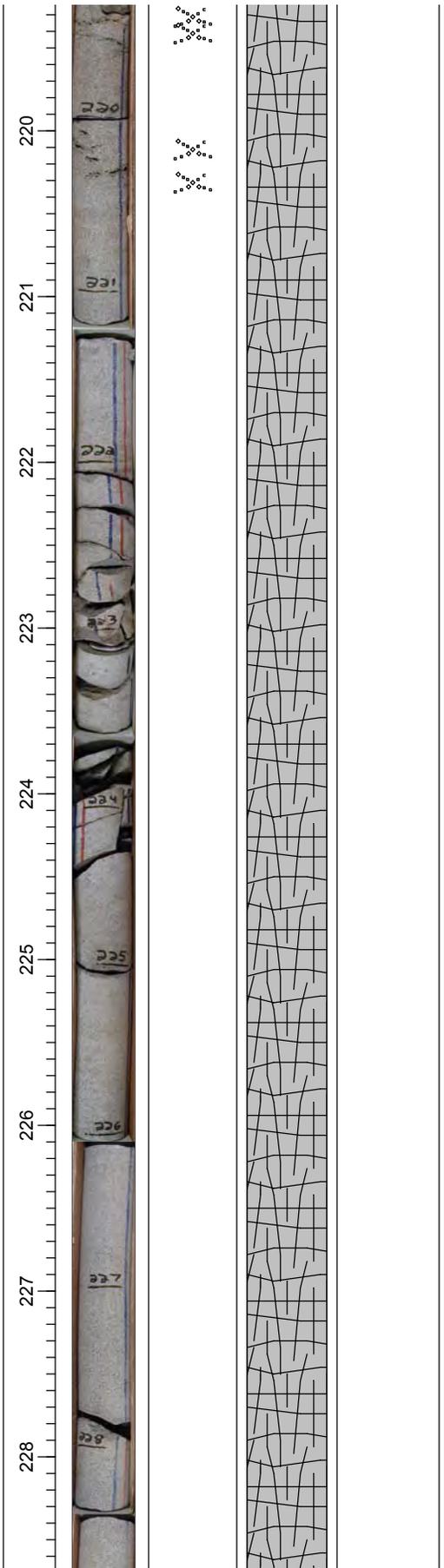


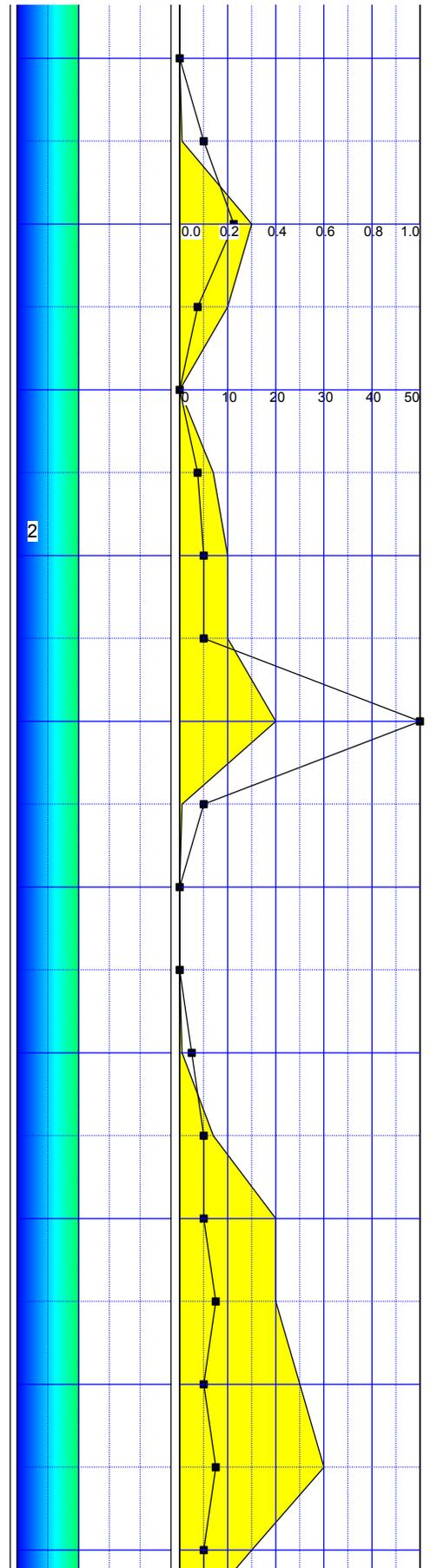
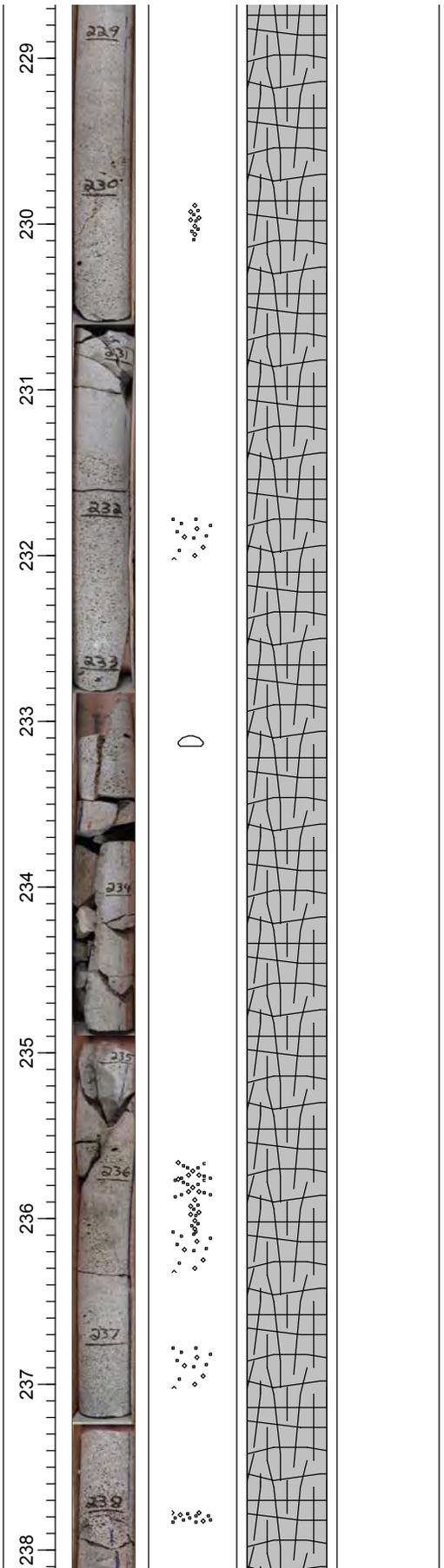
Interesting feature--
bleb
of finer
grained
and darker
material
than
surrounding
core

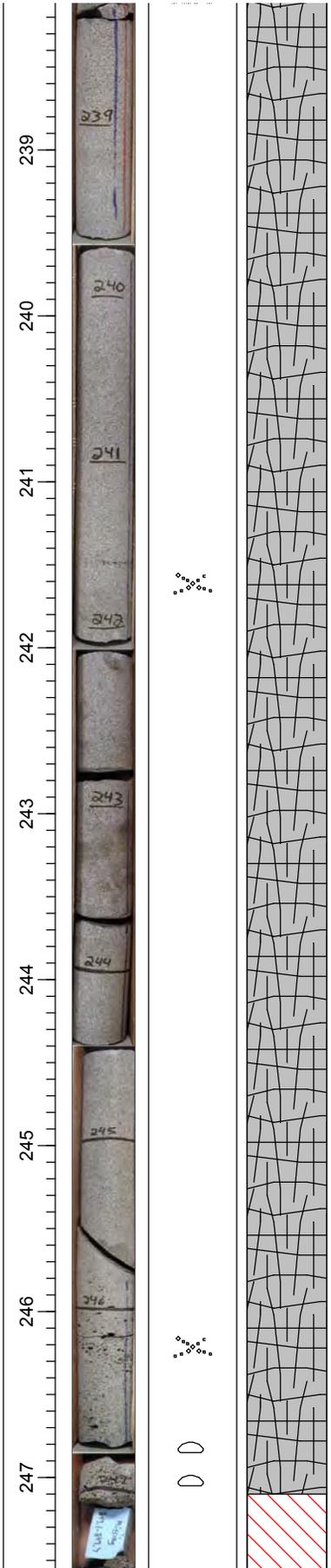
gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate alteration of
plagioclase and olivine phenocrysts.



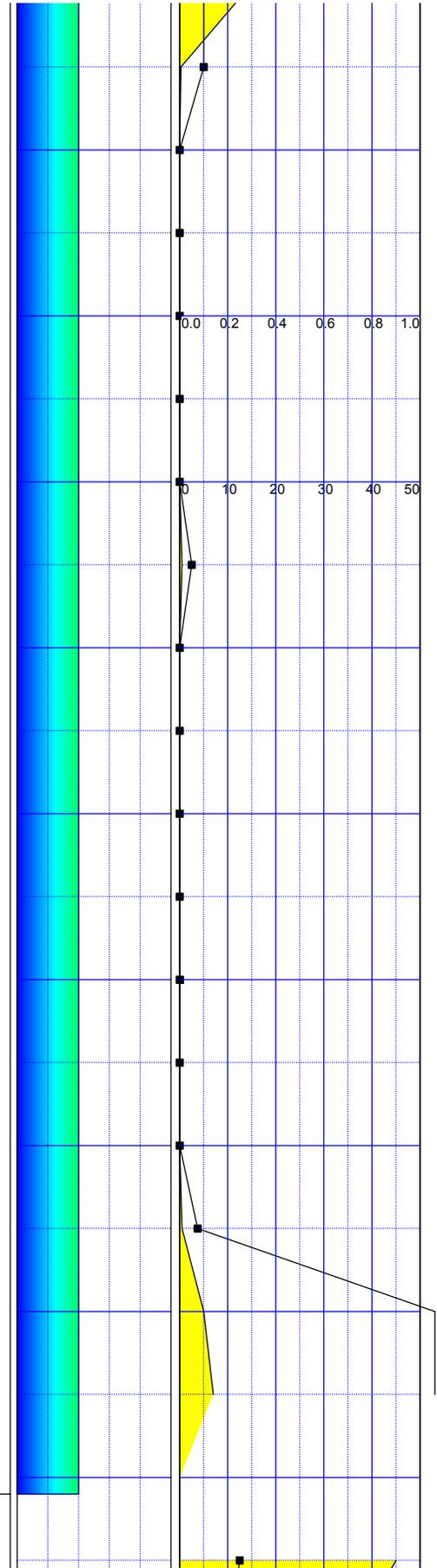


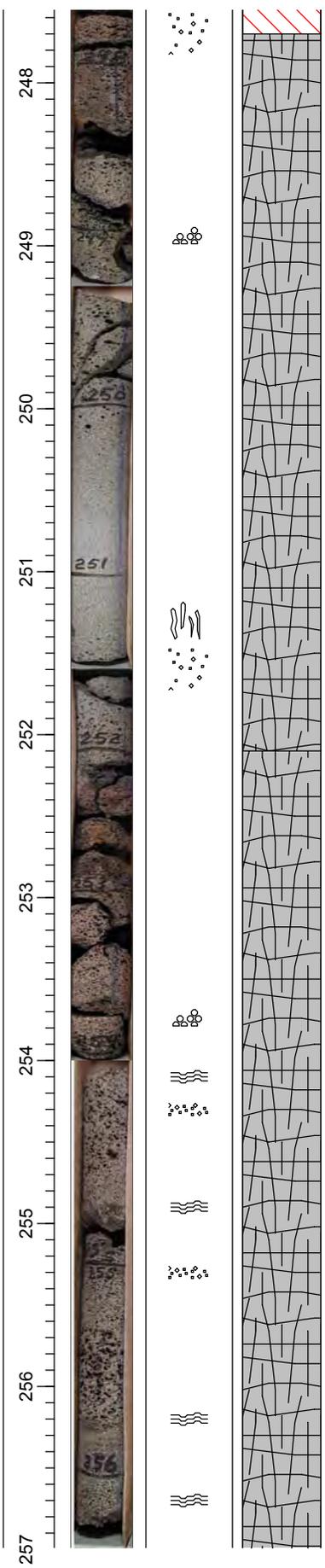






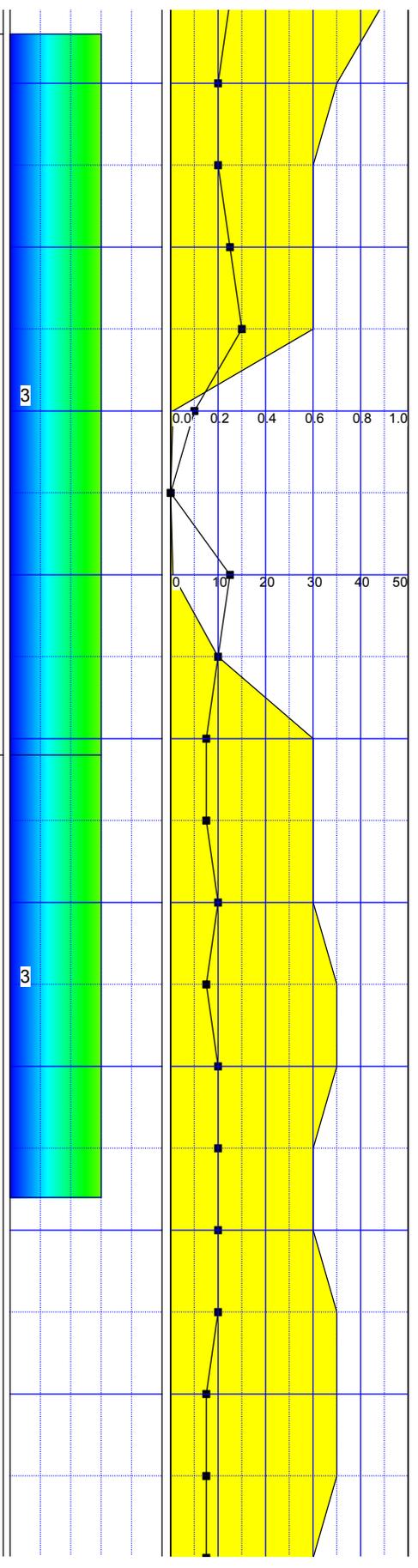
MISSING INTERVAL: Interval not recovered

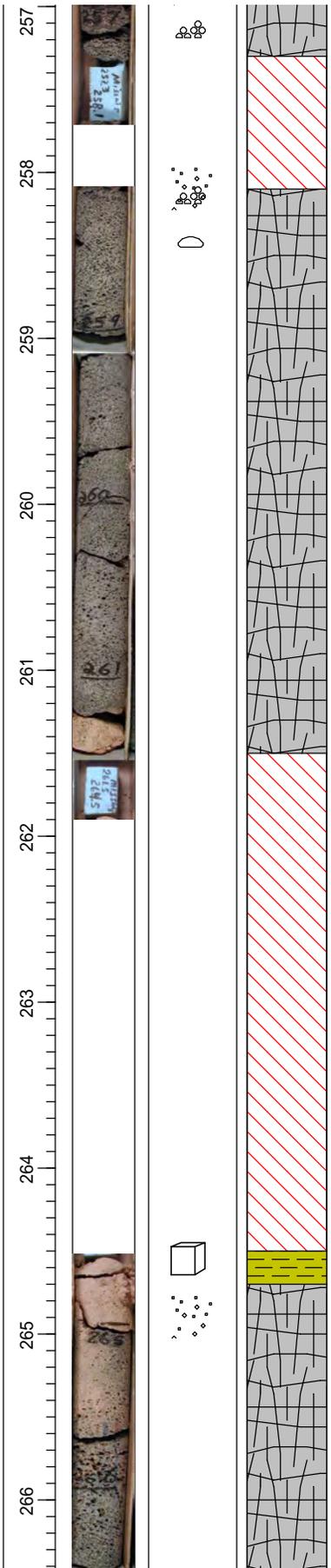




BASALT:
COLOR: Medium dark gray N4 at top of interval on glassy surfaces. Grades from medium light gray N6 to light gray N7 throughout rest of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, massive to vesicular basalt. Diktytaxitic/massive zone stretches from 250.2 feet through 251.5 with massive sections in lower portion of range. Vesicles rounded to irregular, interspersed throughout the section with small <1mm diktytaxitic vesicles.
COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium light gray to light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 staining from 247.7 to 247.9 feet. Light olive gray 5Y 5/2 from 249.0 to 249.3 feet.

BASALT:
COLOR: Medium dark gray N4 on glassy surfaces from 252.1 to 252.2 feet and at 253.7 feet. Light brownish gray 5YR 6/1 to grayish red 5F 4/2 throughout rest of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded. Small (<2mm) vesicles scattered throughout larger vesicles from 260.3 to 260.8 feet, and from 261.2 feet through the end of the interval. Spatter surface at the top of the interval and at 253.7 feet and 254.8 feet.
COMPOSITION: 25% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 5% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to light brownish gray to grayish red aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate red staining from 252.3 feet through 252.4 feet, and on fracture surfaces at 256.2 feet and 257.3 feet. Moderate reddish brown 10R 4/6 staining at 253.7 and 254.8 feet. Grayish red 5R 4/2 on fracture surface at 257.1 feet. Extensive alteration of olivine and plagioclase throughout section.
NOTE: Multiple flows (3?) might be represented in this section. Potential flow breaks marked by oxidation, darker colors, and scoriaceous texture. Bluish gray 5B 7/1 vesicles from 256.4 to 256.8 feet.





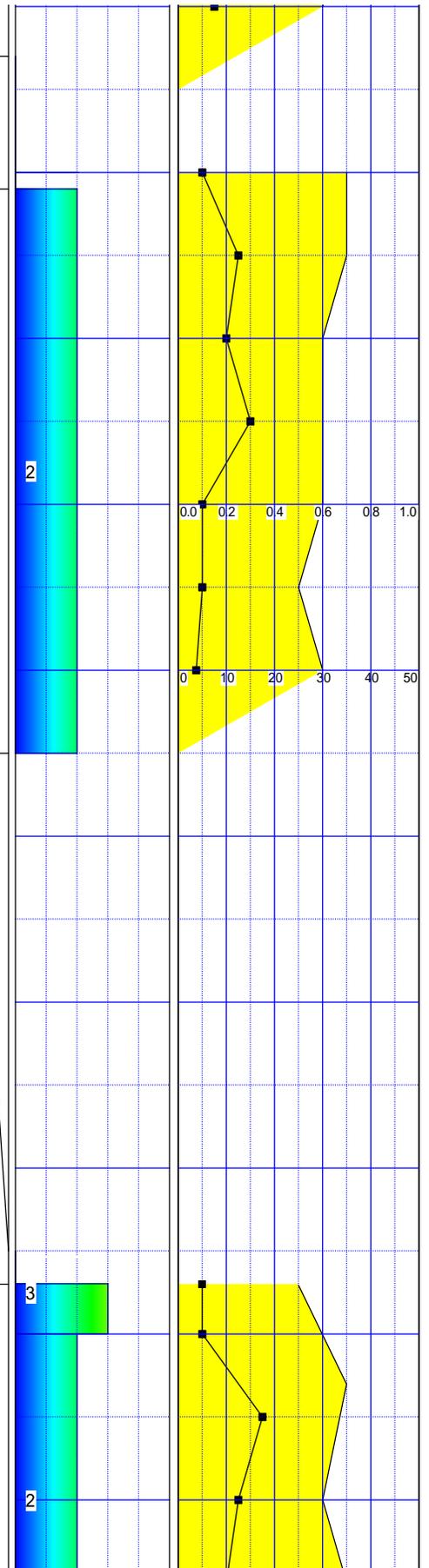
MISSING INTERVAL:
Interval not recovered

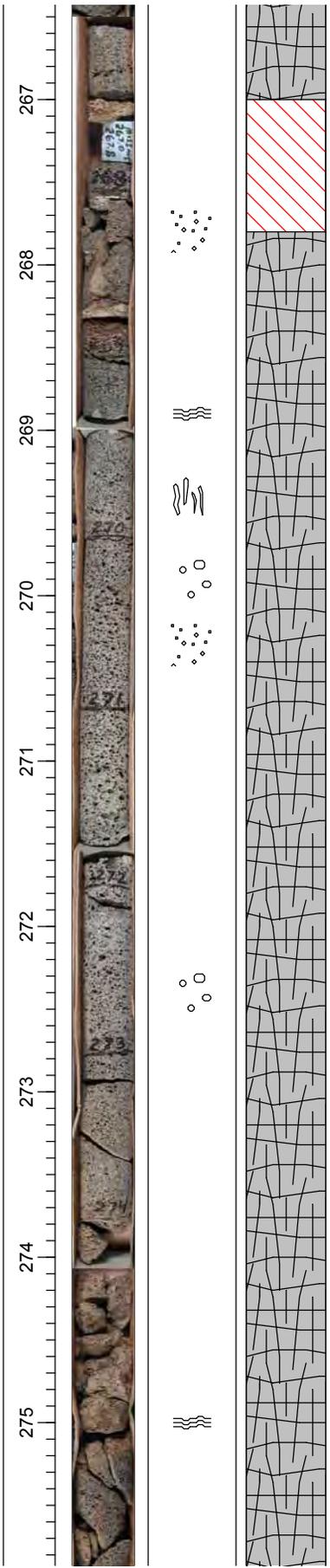
BASALT:
 COLOR: Medium light gray N6 to light gray N7. Dark yellowish orange 10YR 6/6 sediment permeation from 261.2 to 261.5 feet. Yellowish gray 5Y 8/1 sediment vesicle fillings and fracture surface coatings
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded with a varied distribution and interspersal of smaller vesicles (<2mm) to larger vesicles throughout the section.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light bluish gray 5B 7/1 vesicle fillings and fracture surface coatings throughout interval.

MISSING INTERVAL: Interval not recovered

SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Grayish orange 10YR 7/4 to dark yellowish orange 10YR 6/6.
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: No
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Medium light gray N6. Dark yellowish orange 10YR 6/6 sediment coating from 264.7 to 265.0 feet. Vesicle fillings of same material found through remainder of section. Very pale orange 10YR 8/2 sediment coating at 266.9 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. From 264.7 feet through 265.2 feet, core is heavily saturated with sediments through vesicle filling and surficial coating. Sediment-filled vesicles continue through the end of the interval. Vesicles rounded to subrounded, increase in size from 265.5 to 266.4 feet.

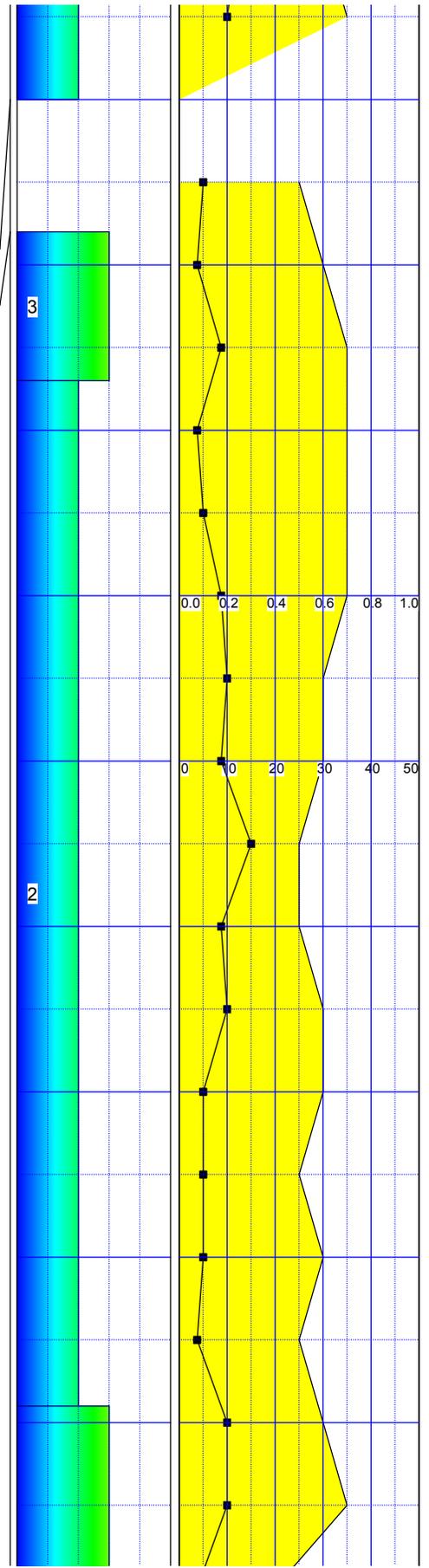


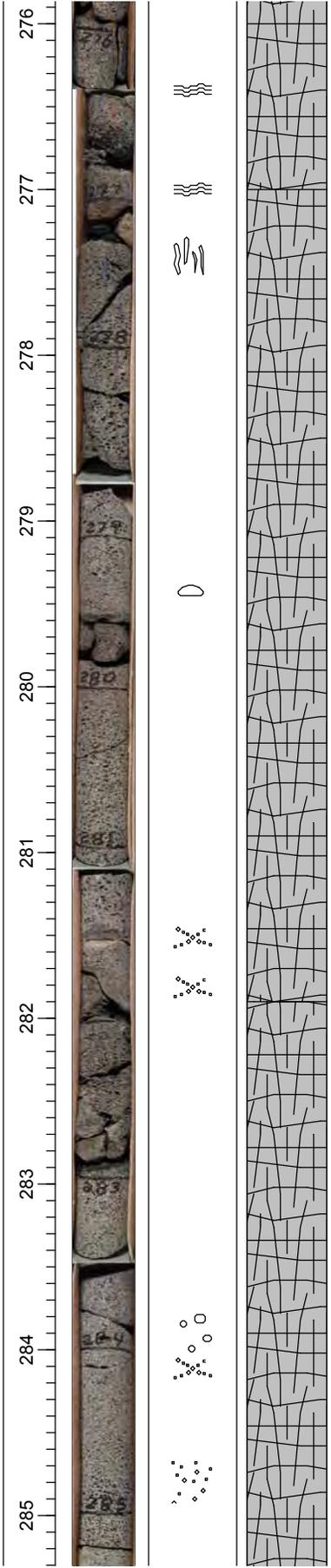


COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: Alteration of olivine and plagioclase phenocrysts apparent throughout interval.

MISSING INTERVAL:
 Interval not recovered

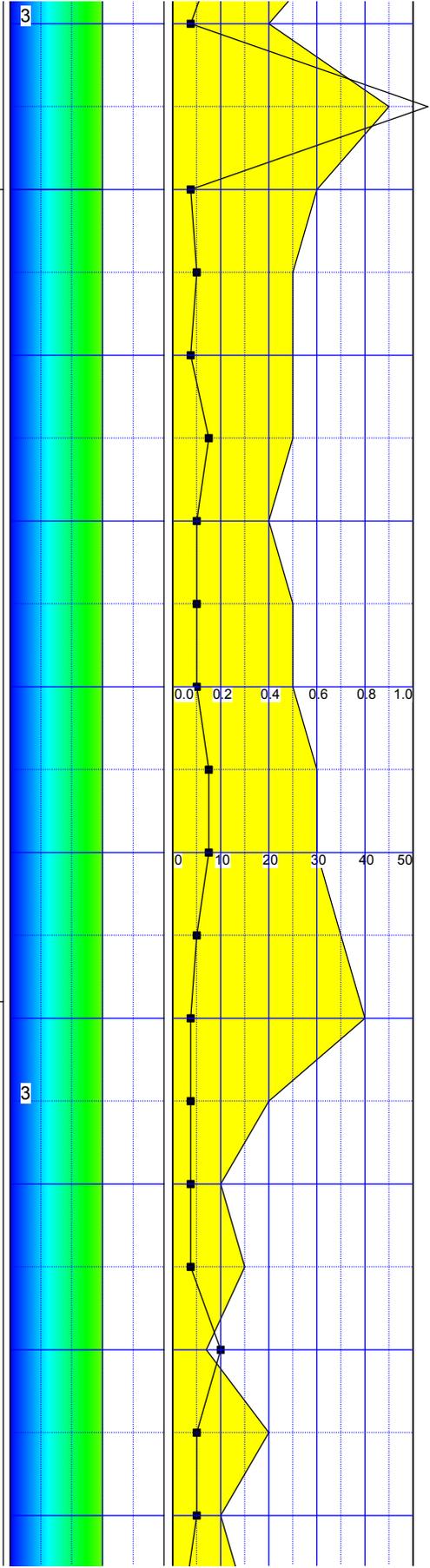
BASALT:
 COLOR: Medium light gray N6 at the top and base of interval, light gray N7 in central portion. Medium dark gray N3 spatter at 276.8 feet. Yellowish gray 5Y 8/1 sediment coating at fractures throughout interval. Vesicle fillings of dark yellowish orange 10YR 6/6 sediment throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded, increase in size and decrease in frequency through the center of the section. Glassy texture present at 268.9 feet and 274.5 feet, as well as from 276.0 feet through the end of the interval in spatter zone and scoriaceous zone at 276.7 feet.
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 1mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium light gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: White coating N9 on fracture surface at 268.1 feet, and pale brown 5YR 5/2 on fracture surface at 268.9 feet,

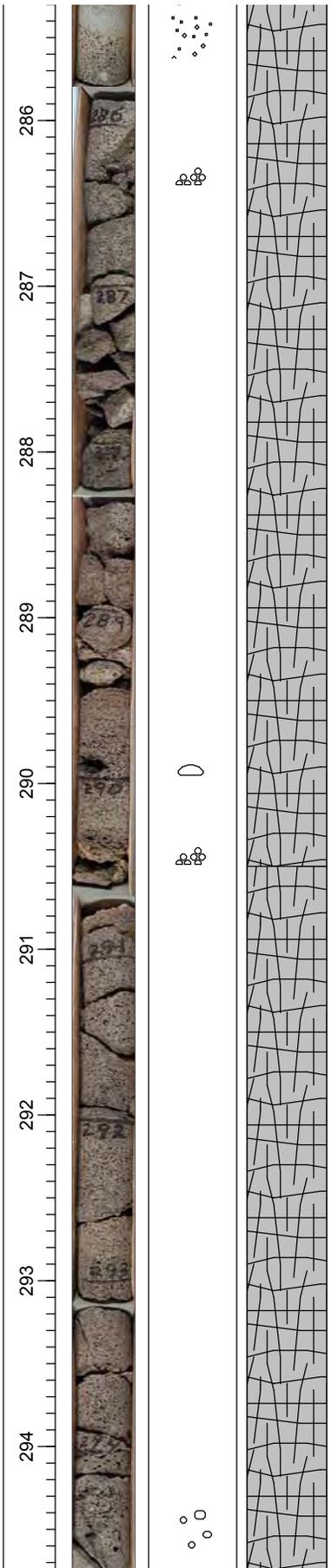




BASALT:
 COLOR: Medium light gray N6 at the top of interval to light gray N7 in the central and base portions of the interval. Pale yellowish brown 10YR 6/2 sediment on fracture surfaces at top of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular subophitic vesicular basalt. Vesicles rounded to subrounded with a varied dispersal of small to large vesicles throughout the section. Flow mold present at 277.0 feet. Scoriaceous zone at 282.3 feet.
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 to moderate reddish brown 10R 4/6 oxidation at flow mold and subsequent rubby zone at top of interval. Pervasive alteration of olivine phenocrysts.

BASALT:
 COLOR: Medium gray N4 at top of interval grading to light gray N7 in central portion of interval. Light brownish gray 5YR 6/1 from lower portions of the interval through the end. Yellowish gray 5Y 8/2 sediment in vesicles on fracture surfaces throughout the core. Light olive gray 5Y 6/1 sediment on fractures near 287.0 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Diktytaxitic portion of interval from 283.6 to 284.8 feet, massive zone from 285.3 feet through 285.5 feet. Glassy textures located at top of interval, 288.6 feet, 289.9, feet, and at bottom of interval.
 COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light gray to light brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Brownish gray 5YR 4/1 oxidation from 287.8 to 289.2 feet Altered olivine phenocrysts present throughout section.





BASALT:

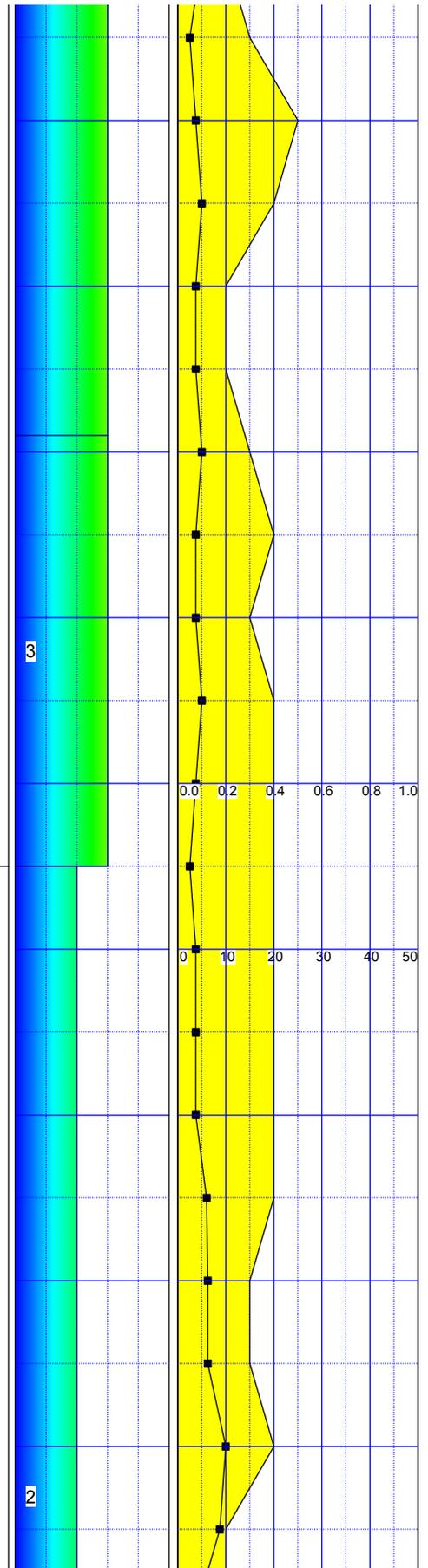
COLOR: Medium dark gray N4 in vesicle zone at 292.5 feet. Light gray N7 at base of interval. Brownish gray 5YR 4/1 through remainder of interval. Pale greenish yellow 10Y 8/2 sediment in vesicle fillings at top of interval. Yellowish gray 5Y 7/2 sediment deposits on fracture at 292.6 feet.

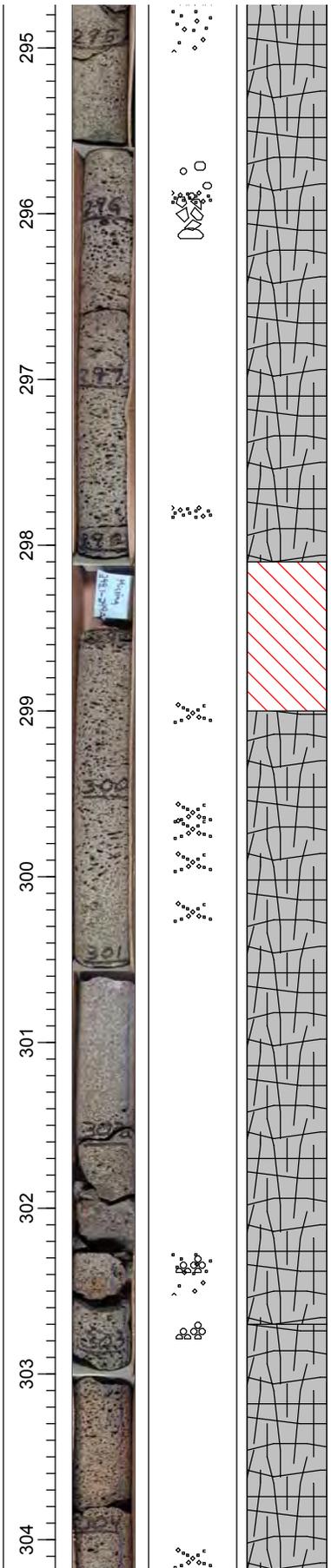
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic vesicular basalt. Rounded to subrounded vesicles increase in size from 295.7 feet through the end of the interval. Small vesicles distributed amongst larger vesicles from 295.6 to 296.0 feet. Flow mold/spatter at top of interval, glassy texture at 292.6 feet and 291.9 feet.

COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter subhedral to euhedral green olivine phenocrysts; 50% medium dark gray to brownish gray aphanitic groundmass.

XENOLITHS/AUTOLITHS: None observed.

ALTERATION: Yellowish gray 5Y 7/2 to moderate reddish orange 10R 6/6 on fracture surfaces throughout the interval. Pinkish gray 5YR 8/1 to yellowish gray 5Y 8/1 coating on fracture surface from 293.2 to 294.3 feet. Alteration of olivine phenocrysts pervasive throughout interval.

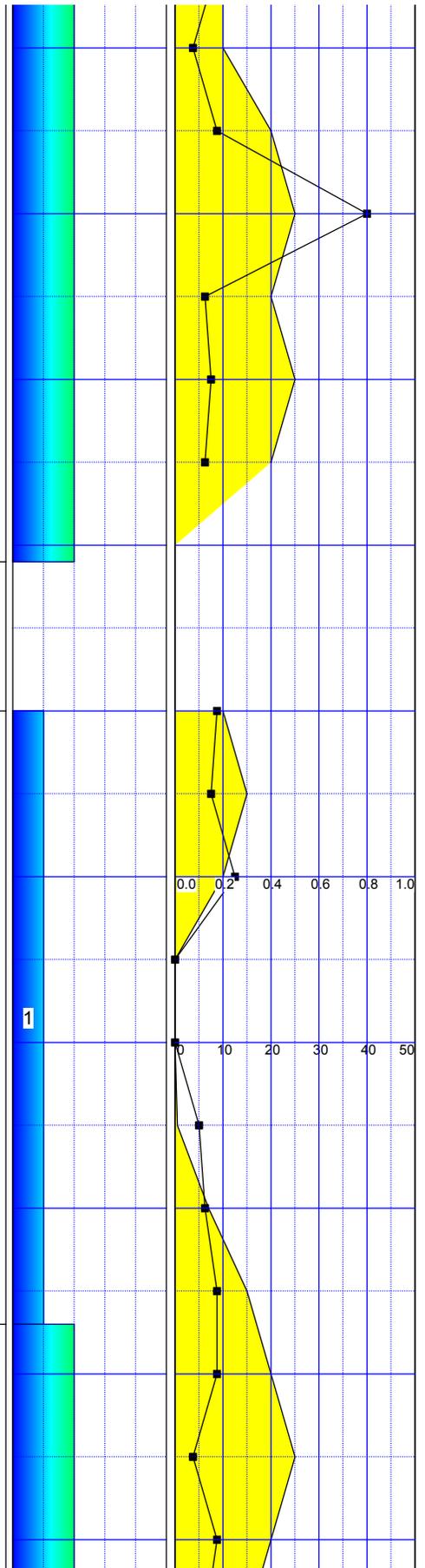


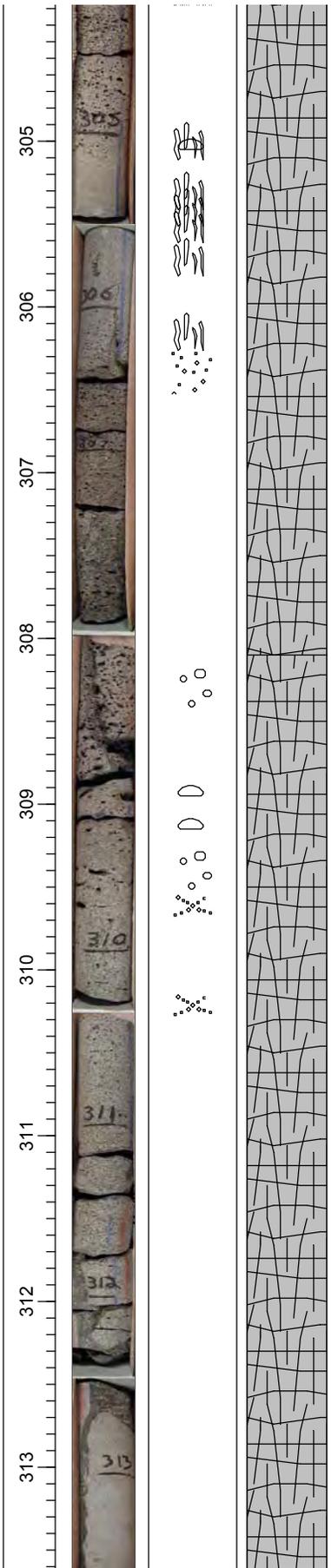


MISSING INTERVAL:
Interval not recovered

BASALT:
COLOR: Light gray N7 at top of interval to medium gray N5 at base of interval. Brownish gray 5YR 4/1 at spatter zone at the base of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles subrounded to rounded and flattened normal to axis of core from 299.8 to 300.4 feet. Diktytaxitic texture begins abruptly at 300.4 feet. and continues through 302.3 feet.
COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Yellowish gray 5Y 8/1 coating on fracture surface at 302.5 feet. Extensive alteration of plagioclase and olivine phenocrysts throughout section.

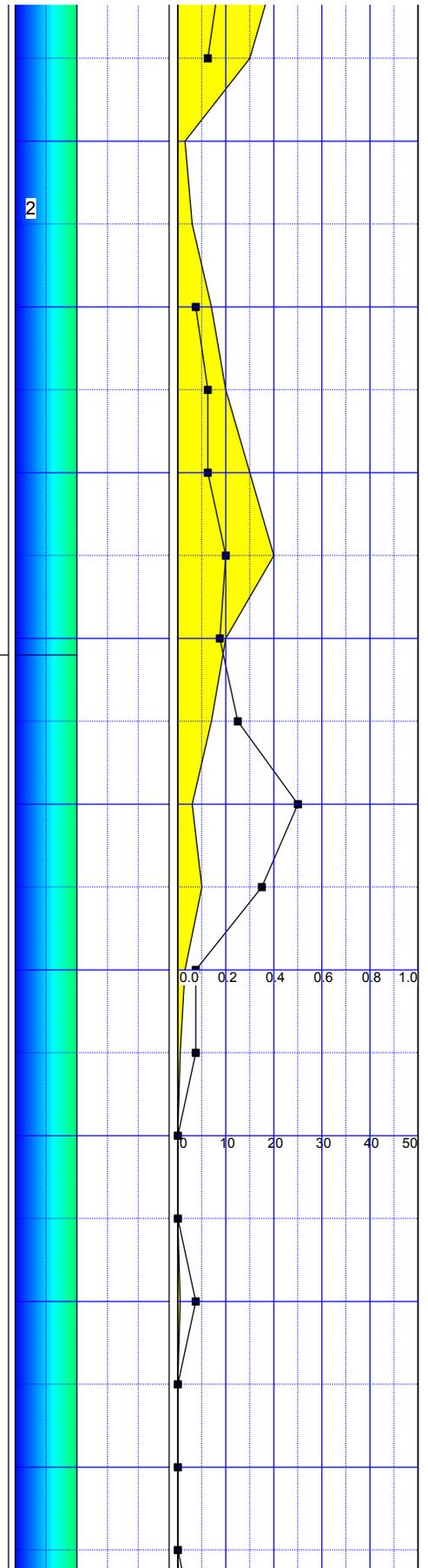
BASALT:
COLOR: Medium light gray N6 at top of interval grading into light gray N7 through the middle portion of interval. Light brownish gray 5YR 6/1 to brownish gray 5YR 4/1 at base of interval. Yellowish gray 5Y 7/2 sediment coatings from 303.2 to 303.9 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles rounded to subrounded and decrease in size with proximity to diktytaxitic section of

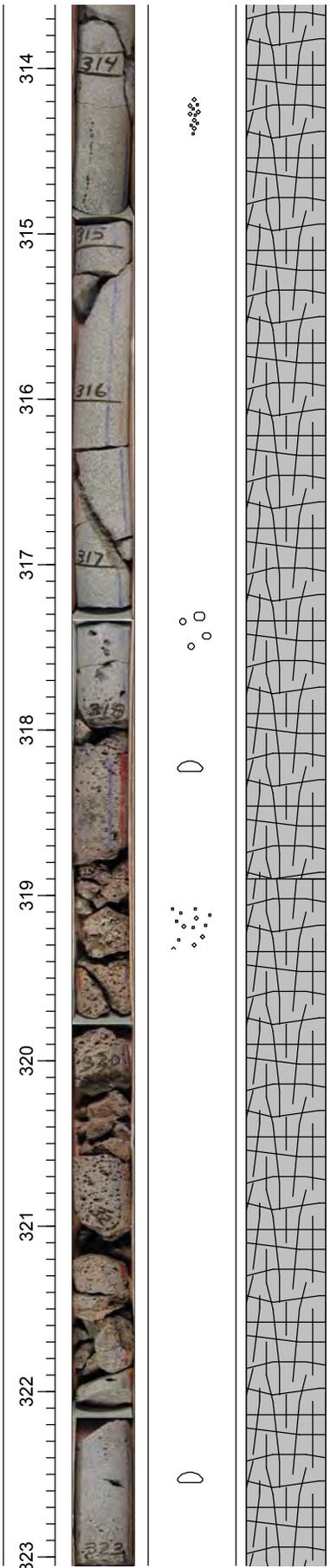




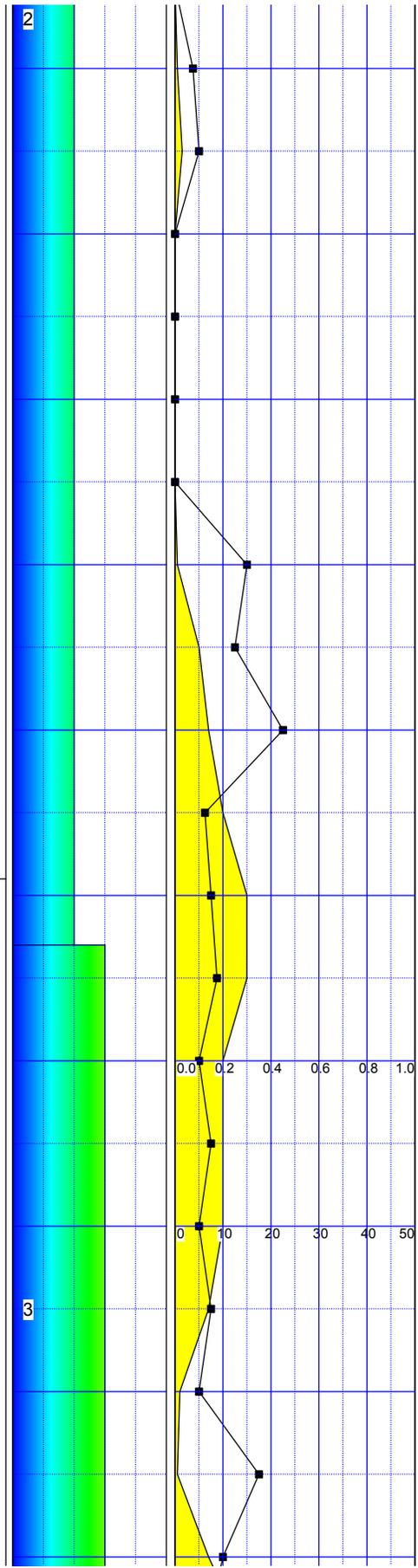
interval--305.1 to 305.9 feet. Glassy texture present from 308.0 to 308.1 feet.
 COMPOSITION: 20% 1mm to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light brownish gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light olive gray 5Y 6/1 coating on fracture surface at 306.4 feet.

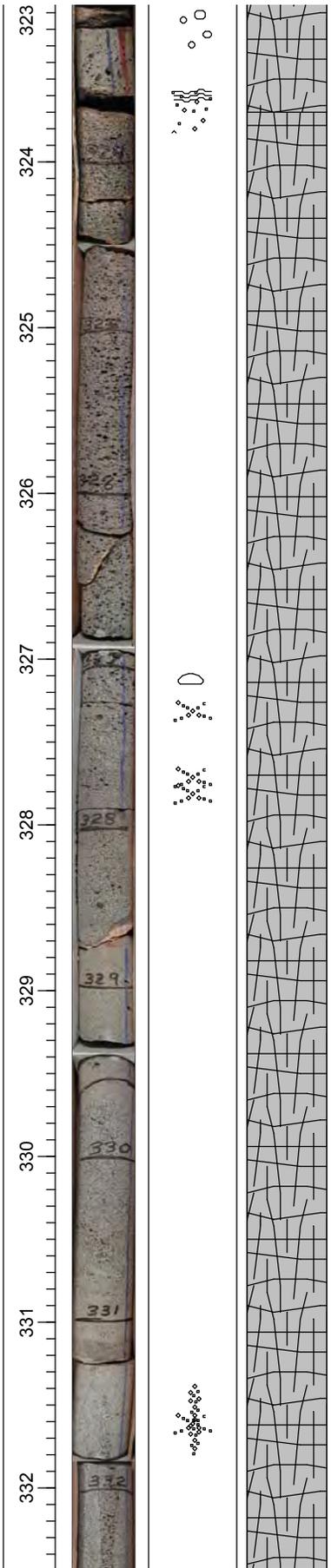
BASALT:
 COLOR: Light brownish gray 5YR 6/1 at top of interval, grading into light gray N7 through the middle portion. Grayish red 5R 4/2 at the end of the interval. Light brown 5YR 5/6 sediment coating on fracture surface at 315.2 feet. Very pale orange 10 YR 8/2 sediment coating on fracture surfaces from 320.9 to 321.8 feet. Yellowish gray 5Y 8/1 to light brown 5YR 6/4 sediment vesicle and fracture coating at 223.1 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular subophitic, diktytaxitic, massive to vesicular basalt. Vesicles rounded to irregular in shape, present in upper foot and lower portion of interval. Diktytaxitic texture from 309.1 to 313.4 feet, and from 314.2 to 317.6 feet. Massive portion of interval bounded by diktytaxitic sections. Massive zone contains minor vesicles
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Yellowish gray 5Y 8/1 linear deposits, normal to axis of core, present throughout interval and visible on fracture surfaces.





BASALT:
 COLOR: Brownish gray 5YR 4/1 to light brownish gray 5YR 6/1 at the top of the interval, grading into light gray N7 at the base of the interval. Pale yellowish brown 10YR 6/2 sediments present in vesicles and coating fracture surfaces from 320.9 to 321.8 feet. Yellowish gray 5Y 8/1 sediment coatings on fracture surfaces from top of interval to 320.0 feet. Very pale orange 10YR 8/2 sediment coatings in and around vesicles at 321.0 feet. Yellowish gray 5Y 8/1 to light brown 5YR 6/4 sediment vesicle fillings and fracture coatings at 323.1 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles rounded to irregular in shape. Massive portion of section stretches from 322.1 to 323.2 feet. Glassy texture at top and bottom of interval, flow mold at 323.7 feet. Sediment filling in vesicles and fractures from top of interval through 321.4 feet.
 COMPOSITION: 20% 1mm to 5mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% brownish gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pervasive groundmass alteration.





BASALT:

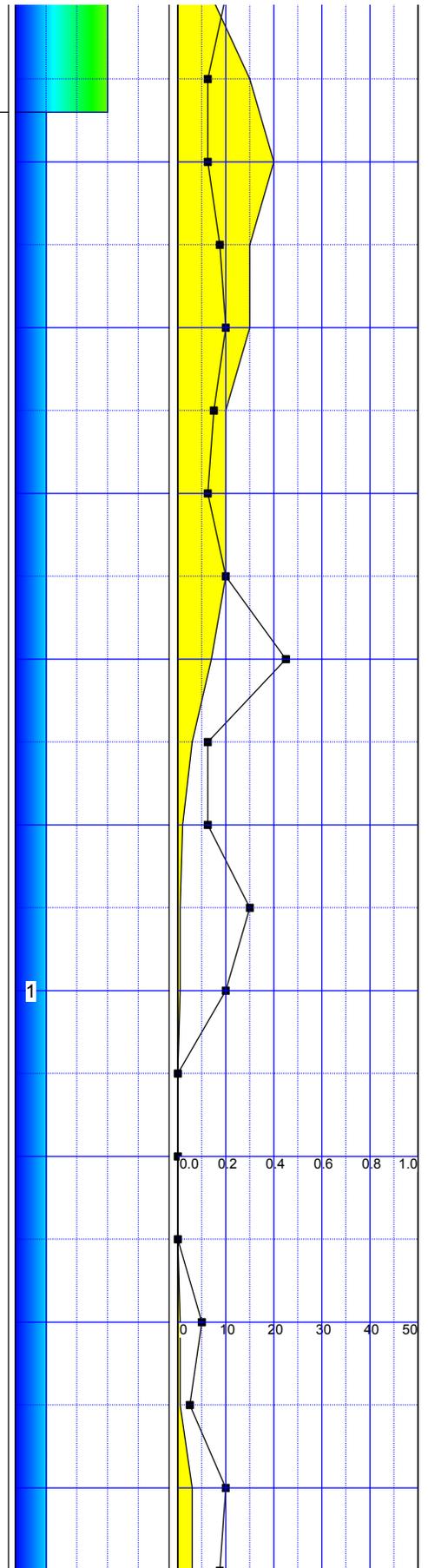
COLOR: Medium gray N5 to medium light gray N6 in the beginning and middle parts of interval; grading into light gray N7 through the end of the interval. Grayish orange 10YR 7/4 sediments filling fracture at 328.6 feet.

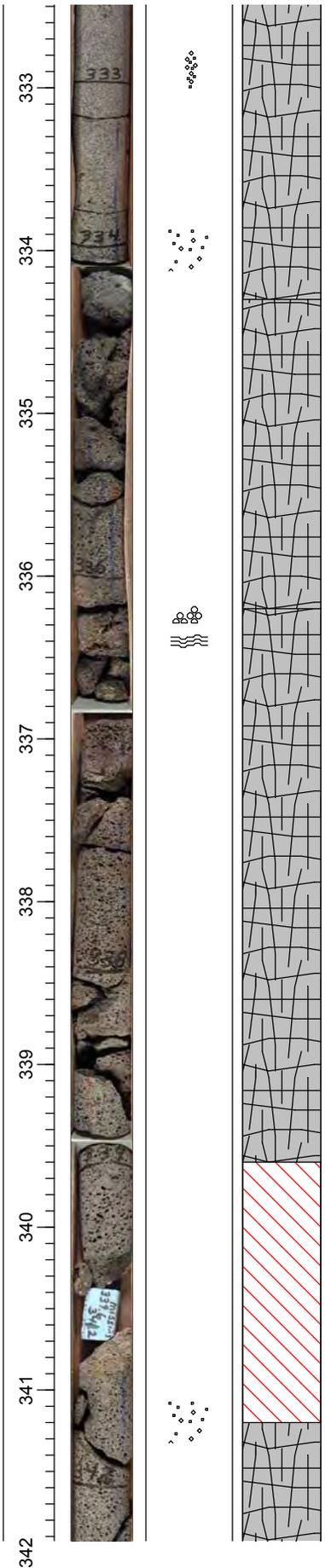
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Rounded vesicles increase in size from top of interval to start of diktytaxitic portion of section. Diktytaxitic zone from 327.1 to 330.7 feet, and from 331.7 to 334.0 feet, containing long vesicle cylinder. Massive portion of flow from 330.7 to 331.7 feet. Sediment fillings in vesicles and fractures from top of interval to 324.5 feet. Flow mold at base of interval.

COMPOSITION: 25% 1mm to 2mm subhedral to euhedral acicular plagioclase phenocrysts; 15% submillimeter to 1mm euhedral glomeroporphyritic green olivine phenocrysts; 10% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 50% light gray to medium gray aphanitic groundmass.

XENOLITHS/AUTOLITHS: None observed.

ALTERATION: Dark yellowish orange 10YR 6/6 to light brown 5YR 6/4 fracture coating and vesicle filling at 324.2 feet. Moderate orange pink 5YR 8/4 coating on fracture surface at 326.3 feet. Grayish orange 10YR 7/4 coatings on fracture surface at 329.5. Light brown 5YR 5/6 staining at 331.8 feet and 332.1 feet.



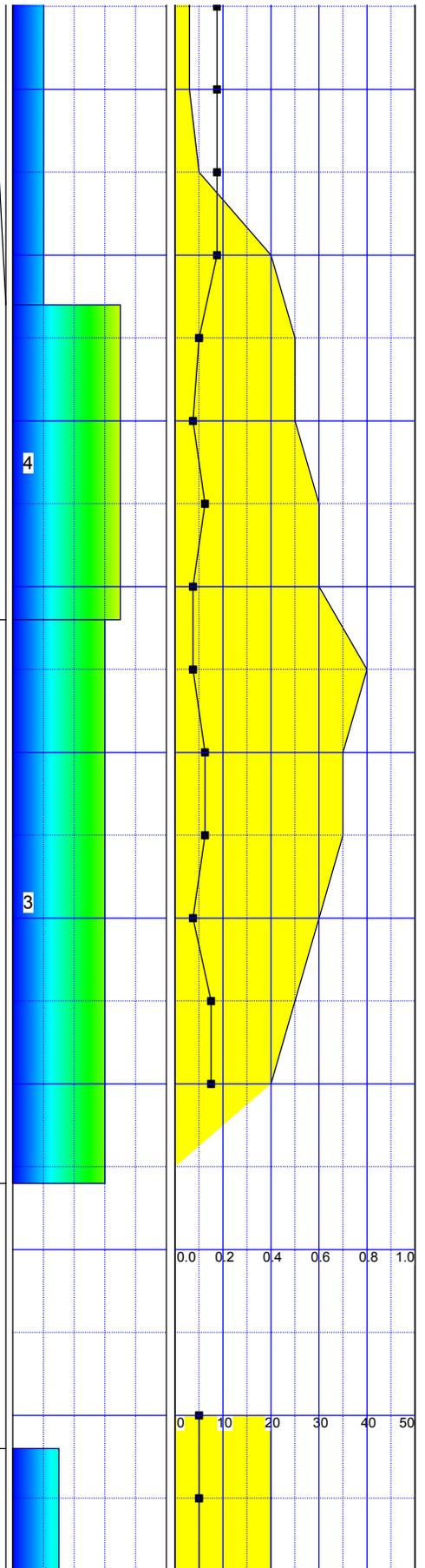


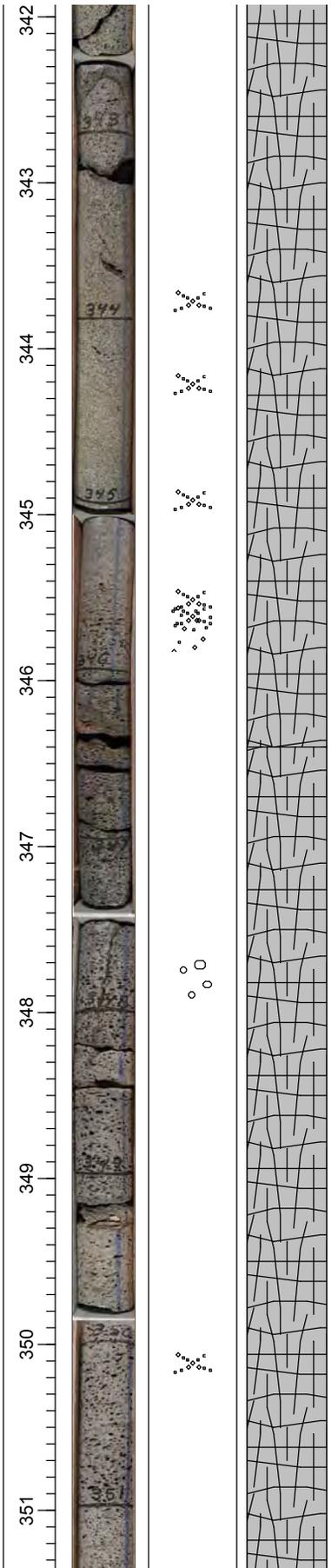
BASALT:
COLOR: Medium dark gray N4. Pale yellowish brown 10YR 6/2 sediment coating on fractures and filling vesicles from 334.5 to 335.3 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded, and decrease in size and concentration through middle portion of flow. Glassy texture present at top and bottom of flows. Flow molds at 334.3 feet and at 336.2 feet.
COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 oxidation at top and bottom of interval. Pale yellowish brown to grayish orange 10YR 6/2 staining at bottom portion of interval.

BASALT:
COLOR: Medium light gray N6 throughout interval. Pale yellowish brown 10YR 6/2 to grayish orange 10YR 7/4 sediment coatings at the top of the interval
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded with a uniform distribution throughout the interval. Glassy texture at top of interval. Scoriaceous zone at 337.5 feet.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 oxidation from 336.2 feet through 337.1 feet. Light brown 5YR 5/6 staining at 337.4 feet and 337.8 feet.

MISSING INTERVAL:
 Interval not recovered

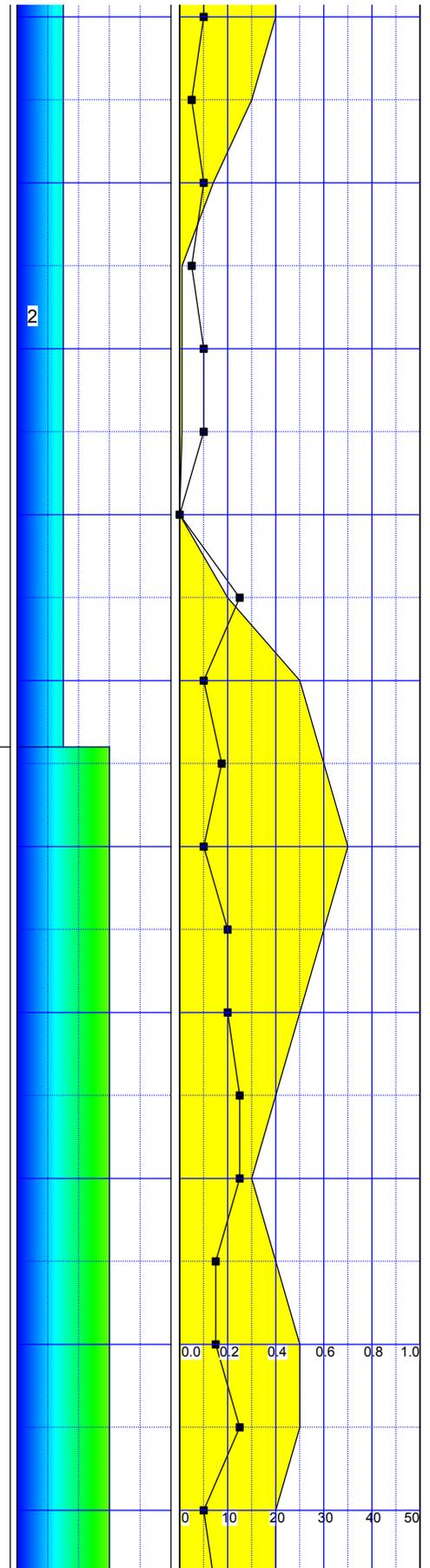
BASALT:
COLOR: Medium light gray N6 present at the top and bottom of the interval, light gray N7 found in the central portion. Grayish orange 10YR 7/4 sediment coating at the top of the interval and on fracture surfaces at 341.9 feet, 343.1 feet, and at the bottom of

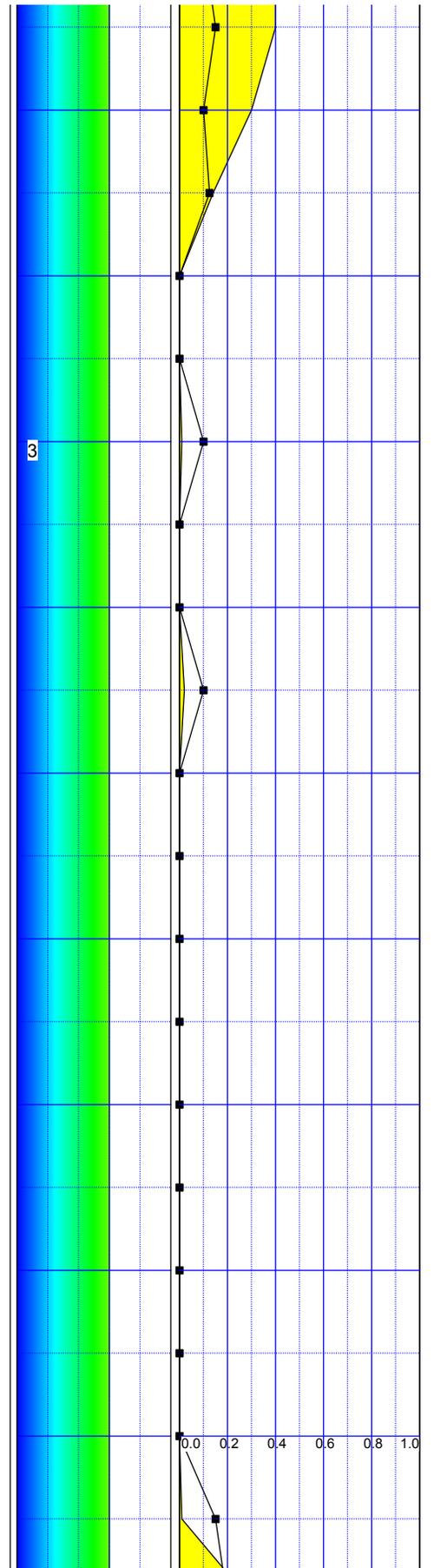
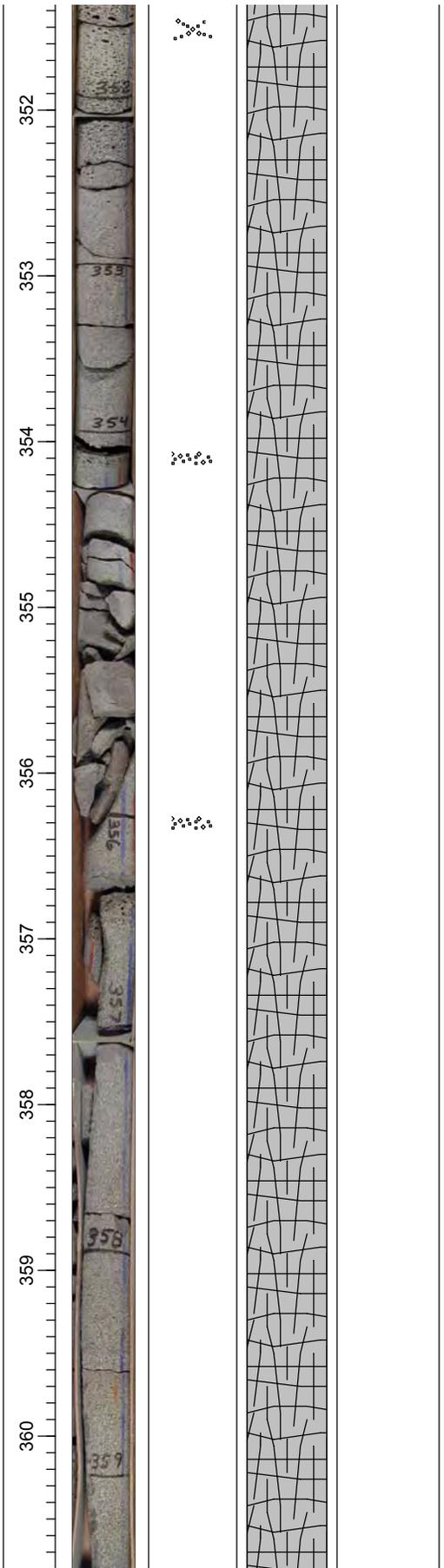


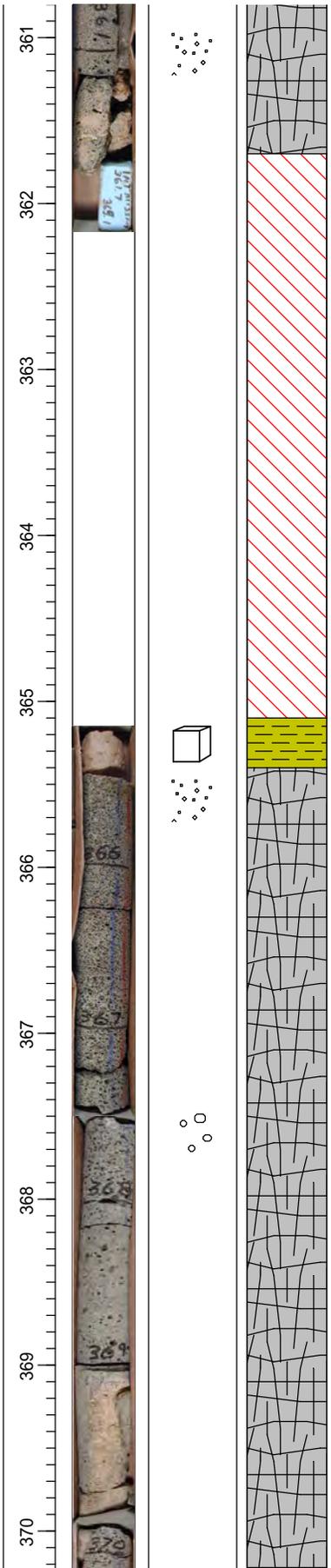


the interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles rounded to subrounded, vesicle planes present throughout interval. Diktytaxitic from 343.4 to 345.6 feet. Flow mold present at 346.4 feet.
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate red 5R 5/4 oxidation also present at the base of the interval.

BASALT:
 COLOR: Medium dark gray N4 to medium gray N5 at the top of interval, grading into medium light gray N6 and light gray N7 in the central part of the interval. Medium gray color at base of interval. Very pale orange 10YR 8/2 sediment located on fracture surface at 346.5 and 349.3 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, massive to vesicular basalt. Vesicles rounded to subrounded and uniformly sized throughout interval. Diktytaxitic zones bounding massive zone from 352.4 to 355.2 feet and from 357.1 to 361.0 feet. Massive portion of interval present from 355.2 feet through 357.1 feet. Sediment-filled vesicles at the base of the interval.
 COMPOSITION: 20% 1mm to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 15% 1mm to 2mm glomeroporphyritic euhedral green olivine phenocrysts; 50% medium light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: Moderate red 5R 5/4 and pale yellowish orange 10YR 8/6 staining and coating at the top of the interval.



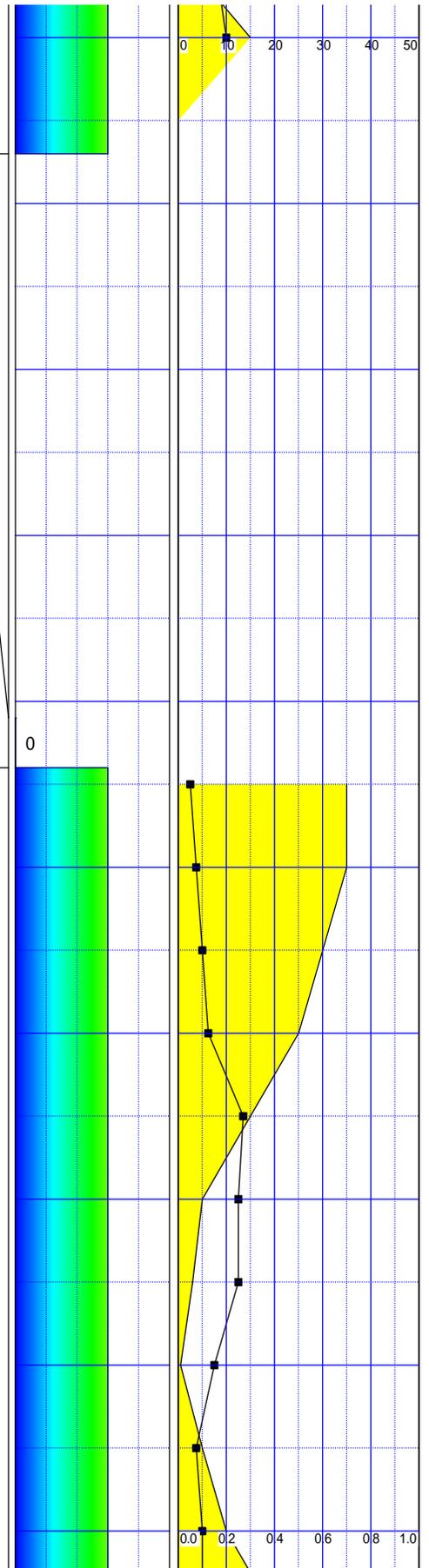


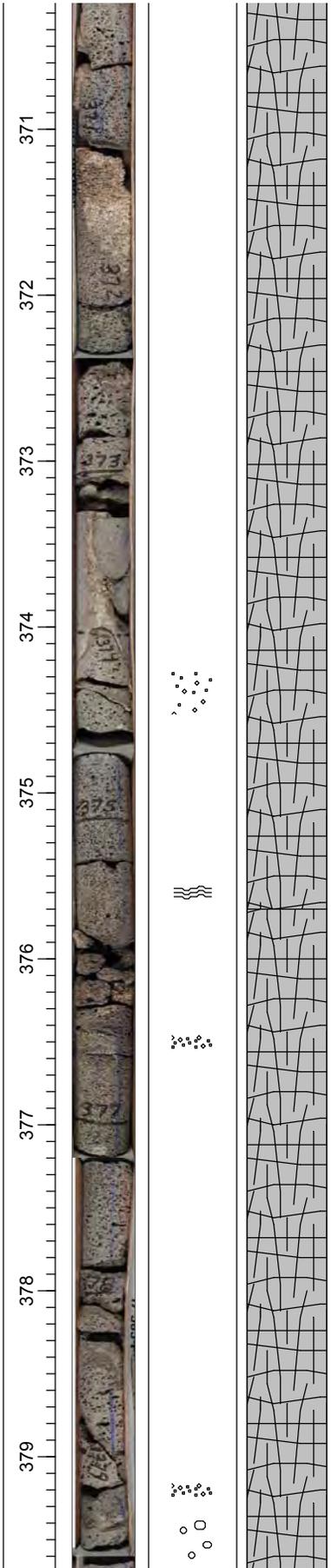


MISSING INTERVAL:
Interval not recovered

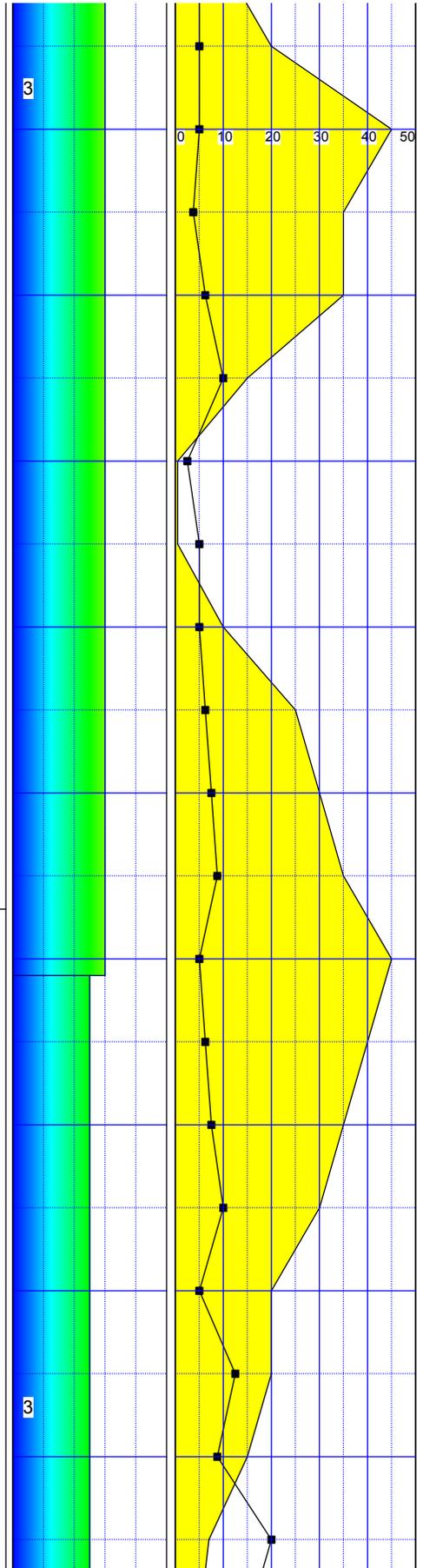
SILT AND CLAY: TEXTURE: Silt and Clay
COLOR: Grayish orange 10YR 7/4
CONSISTENCY: Friable
STRUCTURES: Structureless
FREE CARBONATES: No
ROCK: No
ROOTS/FOSSILS: None noted

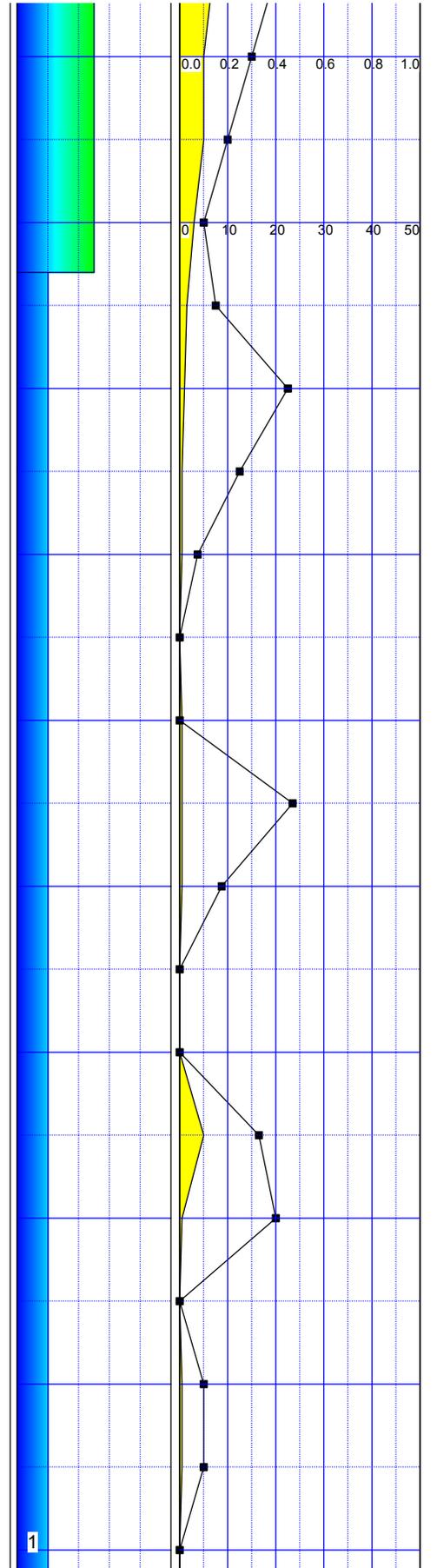
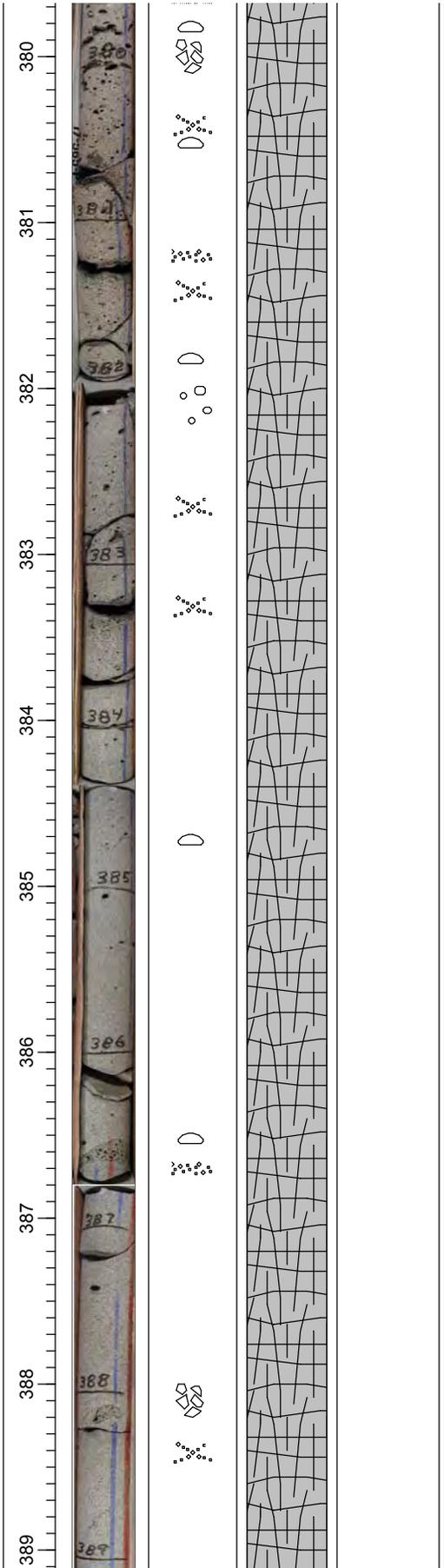
BASALT:
COLOR: Medium light gray N6 to light gray N7. Very pale orange 10YR 8/2 sediment on fracture surfaces from 369.1 to 321.8 feet, 373.4 to 374.7 feet, and at base of interval as vesicle filling.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Vesicles rounded to irregular in size, bands of smaller vesicles distributed throughout interval. Diktytaxitic from 368.1 to 369.0 feet. Massive basalt from 369.0 to 369.6 feet. Sediment-filled vesicles from 371.0 feet through 371.5 feet and fracture from 369.0 feet through 371.1 feet. Glassy texture present at base of interval and at fractures at 371.0 feet and 372.0 feet.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: White N9 vesicle fillings (zeolites?) on fracture surface at 372.3 feet. Pale red 5R 6/2 oxidation at base of interval.

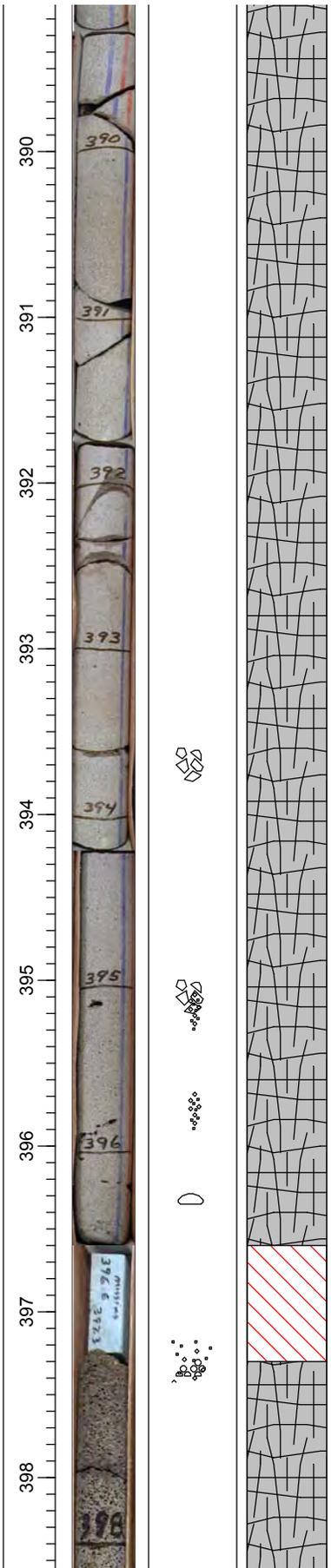




BASALT:
 COLOR: Medium light gray N6 to light gray N7. Yellowish gray 5Y 8/1 sediment on fracture surfaces 376.6 feet through 383.2 feet. Very pale orange 10 YR 8/2 and moderate yellowish brown 10YR 5/4 sediment on fracture surface at 378.3 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Vesicles rounded to subrounded and grow larger with more infrequent distribution through center of section. Massive portion from 379.5 to 386.3 feet, bounding a diktytaxitic zone, followed by another massive zone from 389.2 to 396.6 feet. Aphanitic at 378.0 feet and at fractures at 381.2 feet and at 383.3 feet.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light gray to medium light gray aphanitic groundmass.
 MAGNETIC
 XENOLITHS/AUTOLITHS: Autoliths present at 388.1 feet, 393.7 feet, 395.1 feet, and at 396.0 feet. Size ranging from 2.5 to 6.0 cm.
 ALTERATION: Moderate yellowish brown 10YR 5/4 at top of interval.

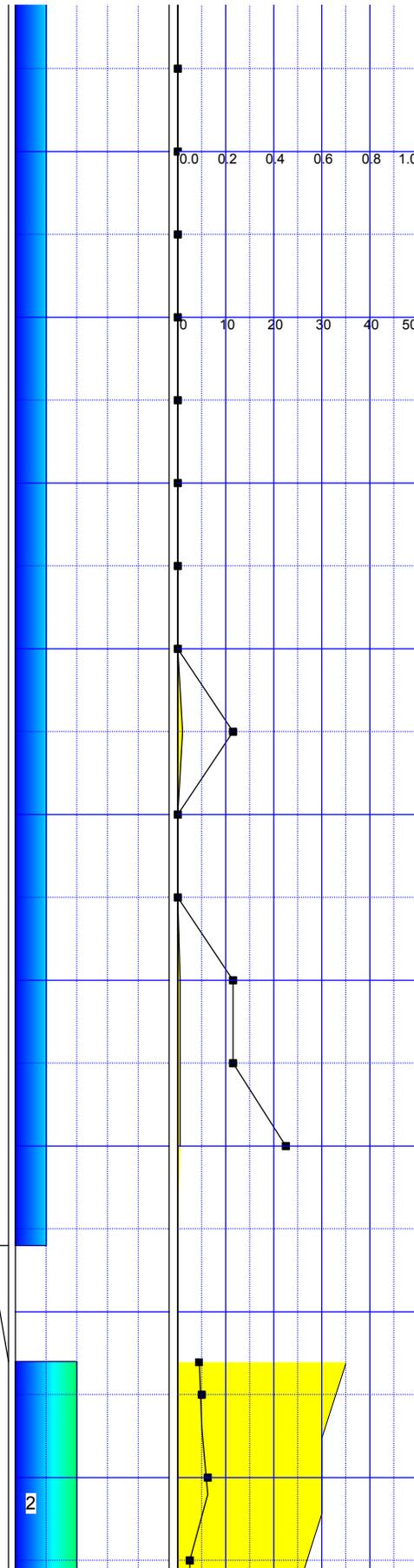


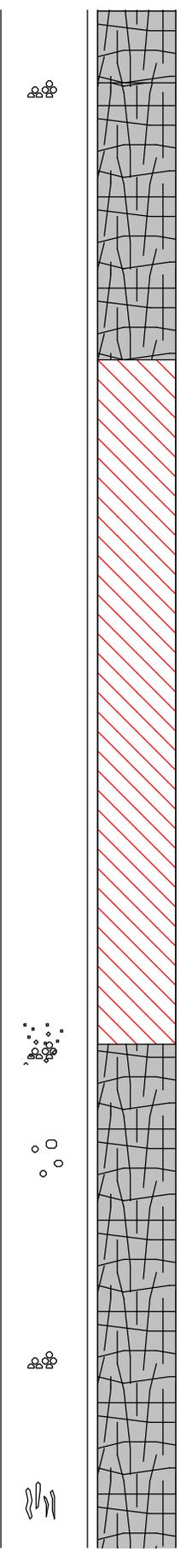
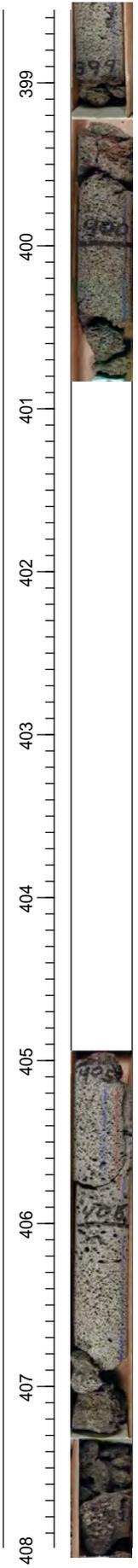




MISSING INTERVAL:
Interval not recovered

BASALT:
 COLOR: Medium dark gray N4 at top and bottom of interval, light gray N7 in the central portion of the interval. Light brown 5YR 6/4 sediment at top of interval, light brown 5YR 5/6 to moderate brown 5YR 4/4 sediment at bottom of interval. Light gray N7 sediment coating at base of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Rounded to subrounded vesicles increase in size and decrease in frequency through the center of the interval. Glassy texture at top and bottom of interval in flow mold/spatter zones.



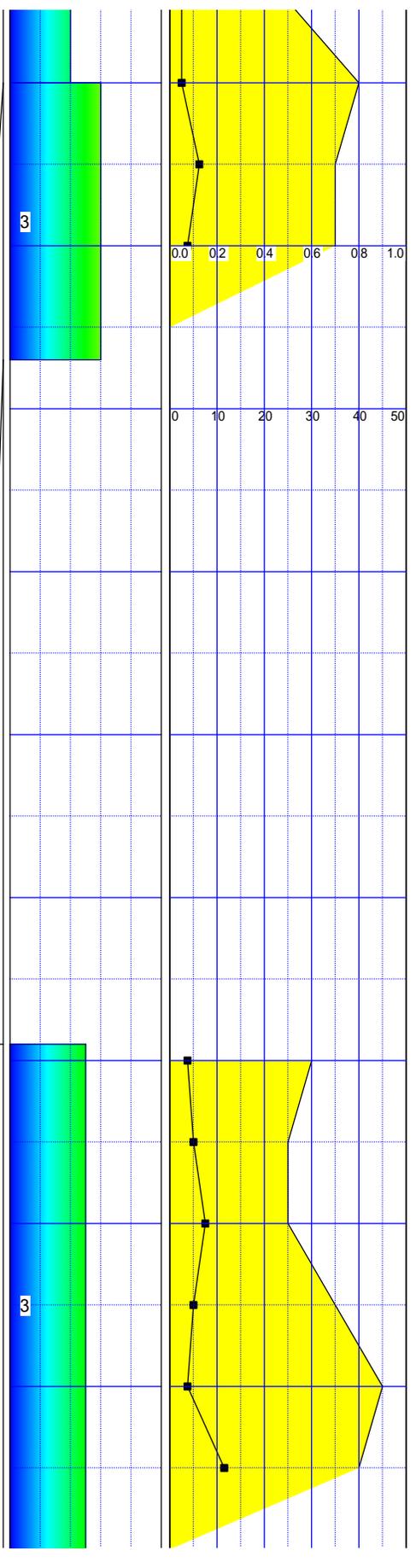


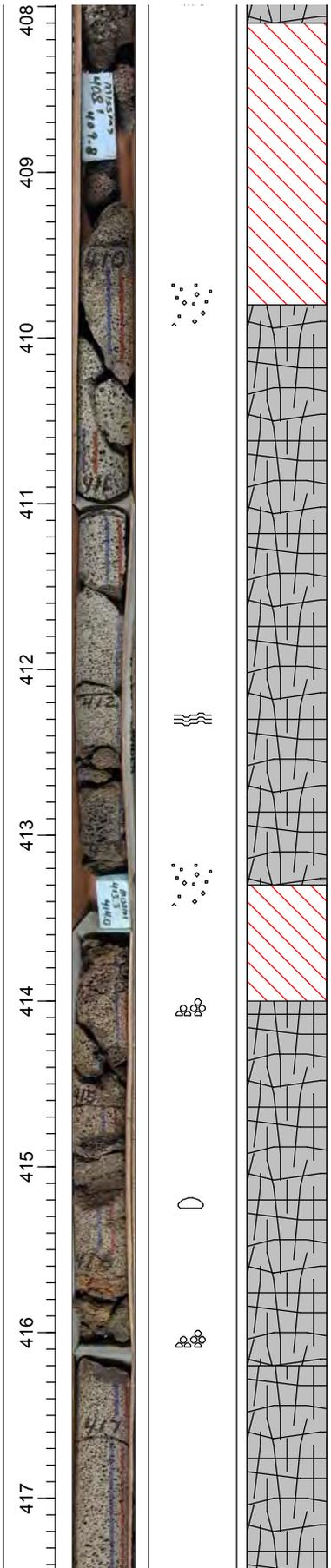
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light gray to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pervasive alteration of groundmass.

BASALT:
 COLOR: Medium dark gray N4.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Rounded to subrounded vesicles which decrease in size through section. Spatter zone at top of interval, scoriaceous zone at bottom of interval
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; green olivine phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish orange 10R 6/6 staining at the top of the interval, moderate reddish brown 10R 4/6 staining present at the bottom portion of interval.

MISSING INTERVAL:
 Interval not recovered

BASALT:
 COLOR: Medium light gray N6.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to subrounded and increase in size/decrease in frequency through the center portion of the section. Glassy texture located in flow mold. at top of interval and in spatter zone at the bottom of the interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 located at the top of the interval and from 407.1 feet through the end of the interval. Brownish gray 5YR 4/1 also located at the end of the interval.





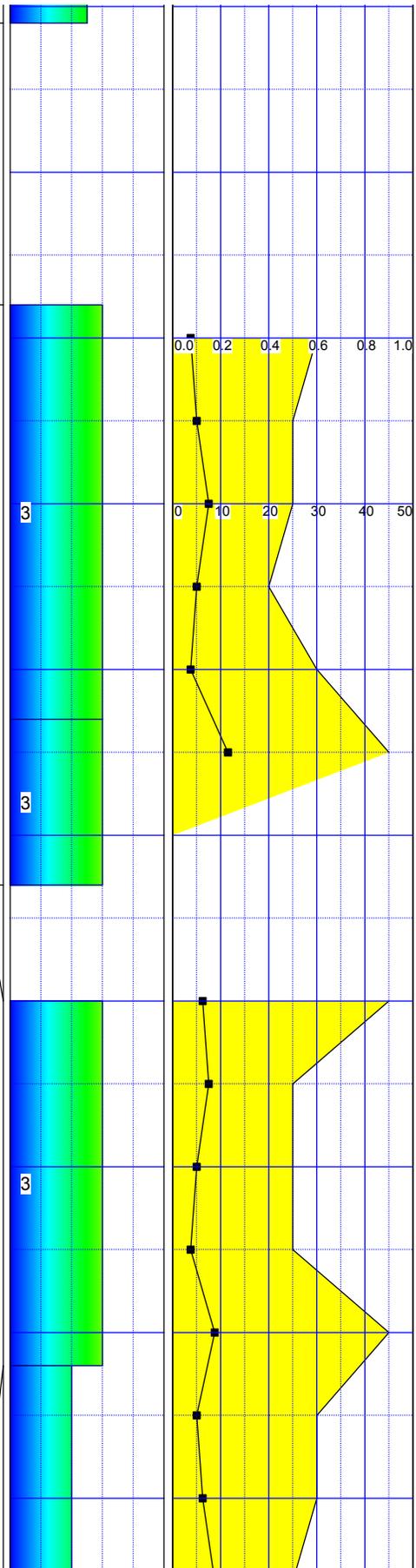
MISSING INTERVAL:
Interval not recovered

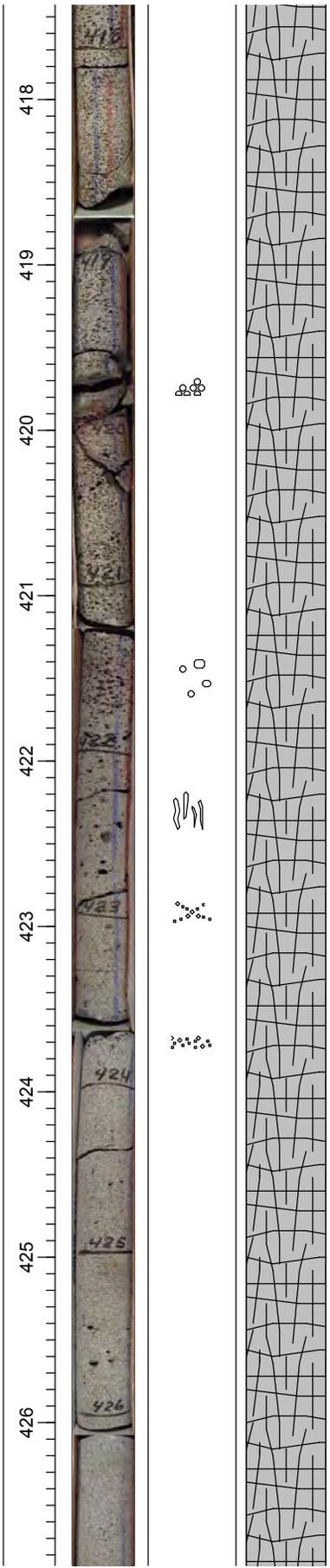
BASALT:
COLOR: Medium light gray N6, with medium dark gray N5 portions from 412.3 feet through 413.3 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Rounded to subrounded vesicles which increase in size/decrease in frequency through the central portion of section.
COMPOSITION: 20% submillimeter to 2.5mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray to medium dark gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 from 412.3 to 413.3 feet. Moderate yellow brown 10YR 5/4 located at 412.3 feet and 413.2 feet.

MISSING INTERVAL:
Interval not recovered

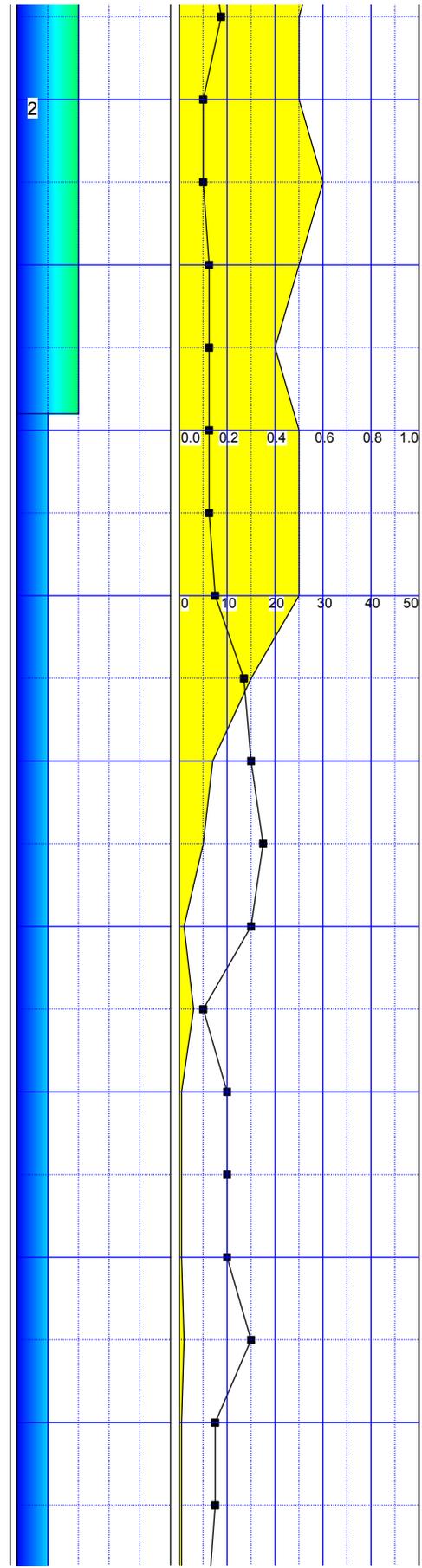
BASALT:
COLOR: Dark gray N5 at the top of the interval, light brownish gray 5YR 6/1 through remainder of section.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles rounded to irregular, with a uniform size and concentration throughout the interval. Spatter zone at the top and bottom of the section and at 315.2 feet.
COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% dark gray to light brownish gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate yellowish brown 10YR 5/4 at top and base of section. Pinkish gray 5YR 8/1 coatings on fracture surfaces throughout the interval.
 Glassy zone at 315.2 feet contains glassy droplets similar to those personally observed at lava cave in Hawaii.

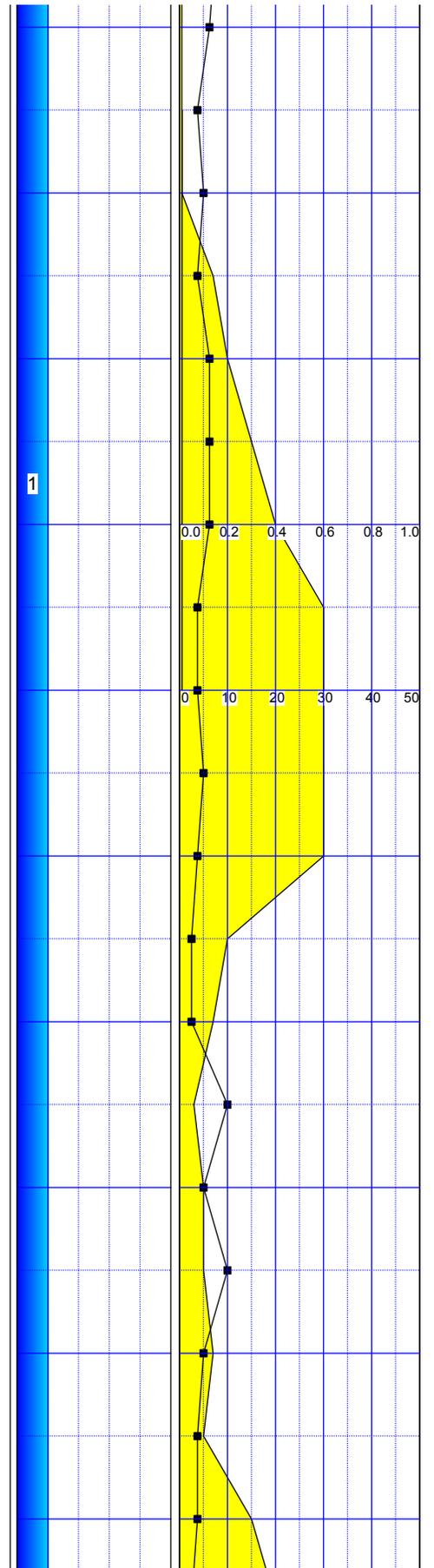
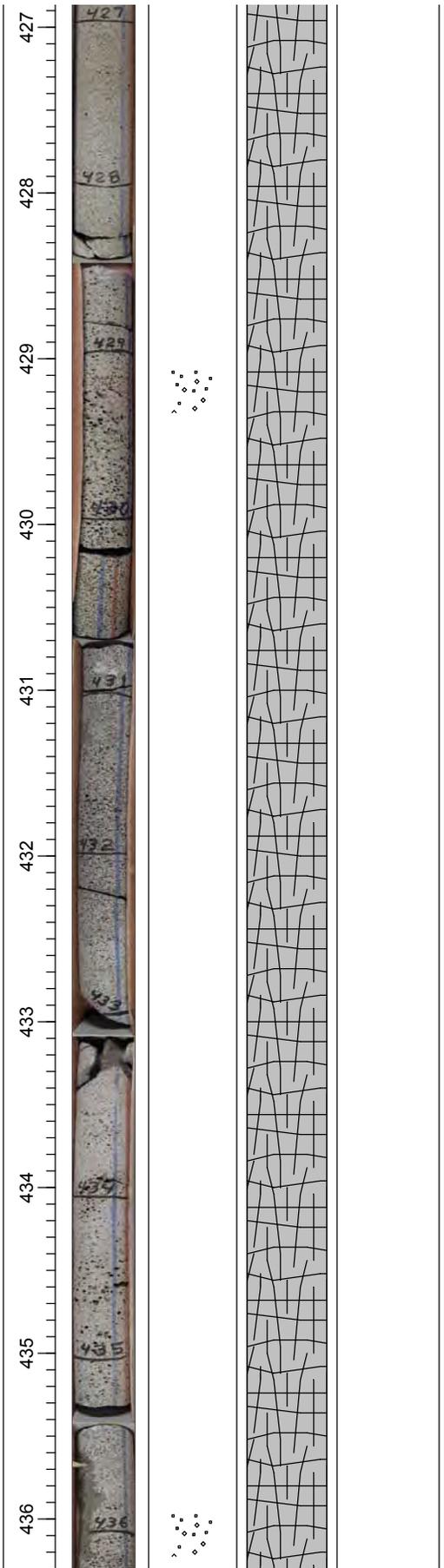
BASALT:
COLOR: Medium dark gray N4 at top of interval, medium light gray N6 throughout rest of section.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic,

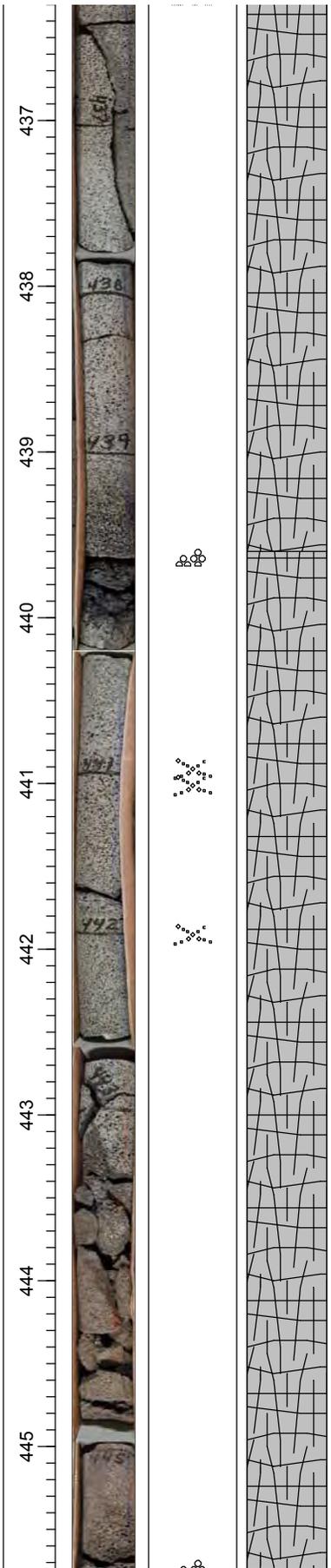




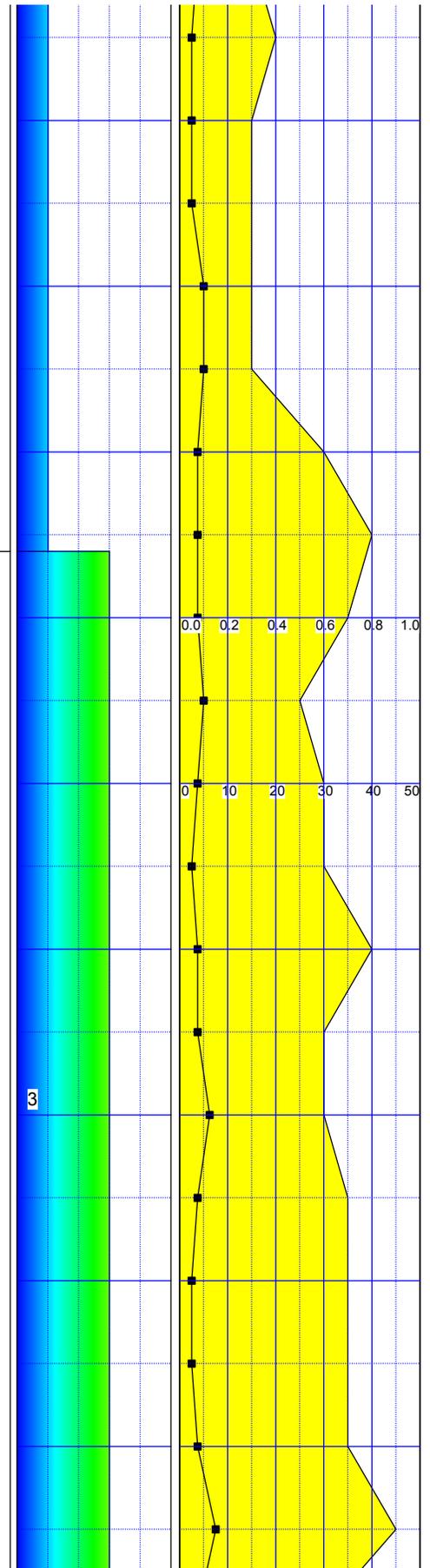
diktytaxitic, vesicular basalt. Vesicles rounded to subrounded, with larger, infrequent vesicles present in diktytaxitic zone. Diktytaxitic portion of section from 420.8 to 428.5 feet and from 434.6 feet through 436.2 feet.
 COMPOSITION: 25% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Olive gray 5Y 4/1 coating on fracture surface at 419.7 feet. Moderate red 5R 4/6 to dusky red 5R 3/4 on fracture surface at 419.9 feet, and grayish red 5R 4/2 located on fracture surface at 420.3 feet.

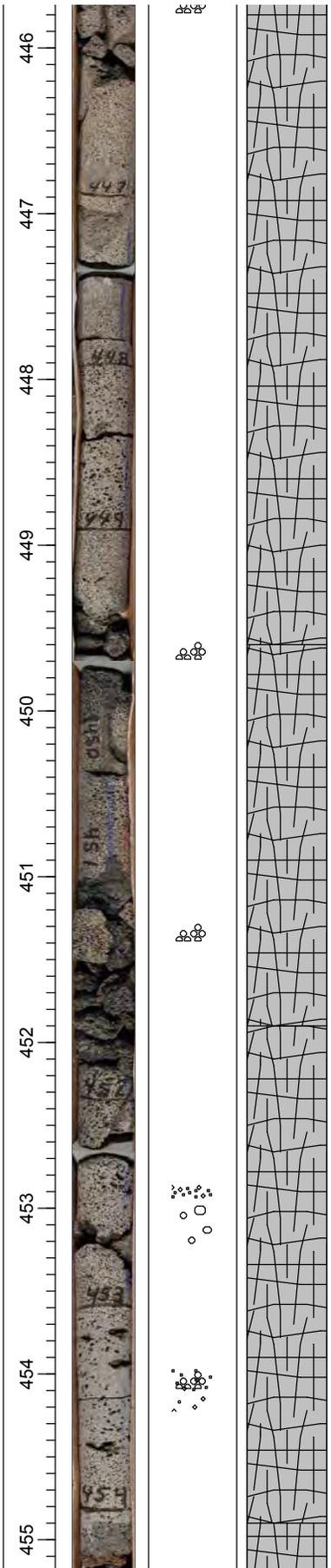






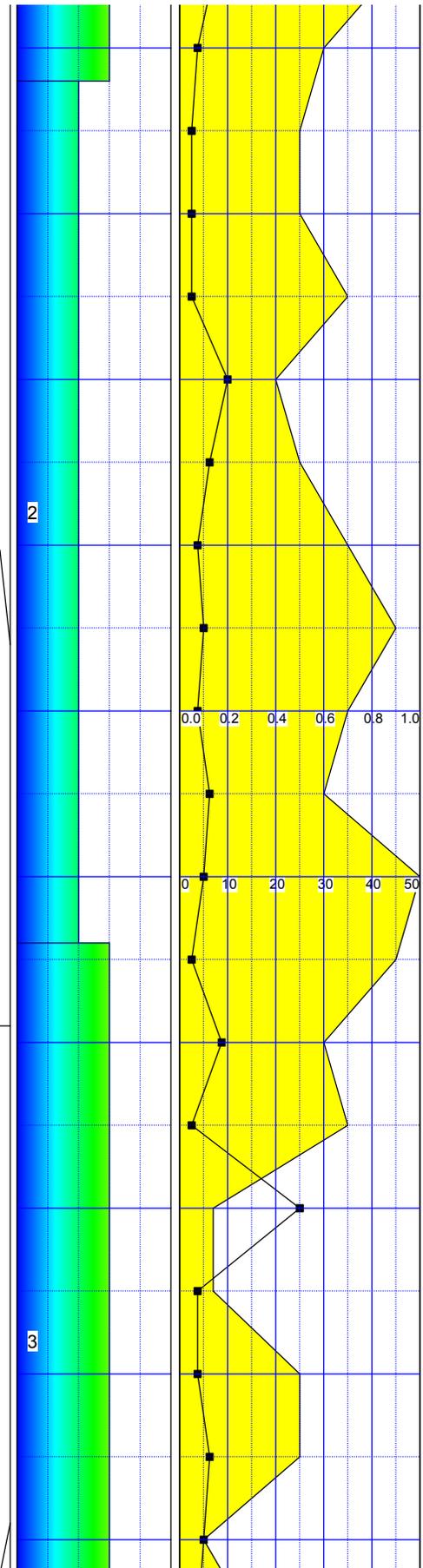
BASALT:
COLOR: Medium gray N6 at top, grading into medium light gray N6 through the center of the interval. Light brownish gray 5YR 6/1 into the end portion, and medium dark gray N4 at the bottom of the section
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Subrounded to rounded vesicles increase in size through center, concentration of vesicles uniform throughout interval. Diktytaxitic texture present from 448.4 feet through 449.4 feet.
COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray to medium light gray to light brownish gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 coating at 443.7 feet, Grayish orange 10YR 7/4 coating at 449.5 feet.

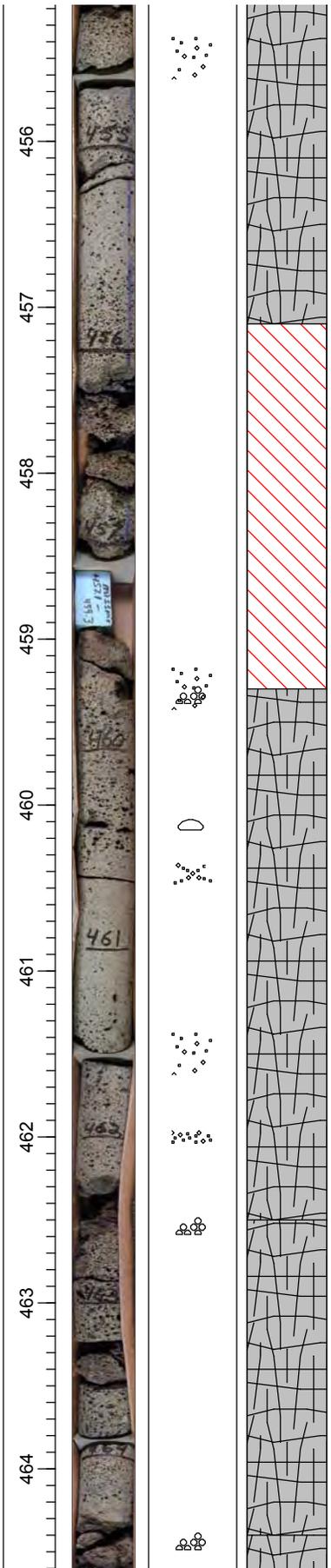




BASALT:
COLOR: Light brownish gray 5YR 6/1 at the top of the interval, medium light gray N6 through the center, and medium gray N5 at the bottom of the section.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles increase in size towards bottom of section. Scoriaceous zones at the top of the section and from 451.0 to 451.9 feet, and at flow mold at bottom of interval.
COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light brownish gray to medium light gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate yellowish brown 10YR 5/4 at top of section. Blackish red 5R 2/2 at the end of the interval.

BASALT:
COLOR: Medium dark gray N4 at the top portion of the section, grading into medium gray N5 through the center and the end of the interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles are subrounded to rounded and increase in size and decrease in concentration towards the center of interval. Diktytaxitic texture present from 453.5 to 454.9 feet. Flow molds present at top and bottom of interval.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium dark gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 at the top of the interval, moderate yellowish brown 10YR 5/4 at 454.3 feet. Altered olvine present throughout interval--red staining on crystal facies (hematite?). Glassy portions of groundmass stained red.





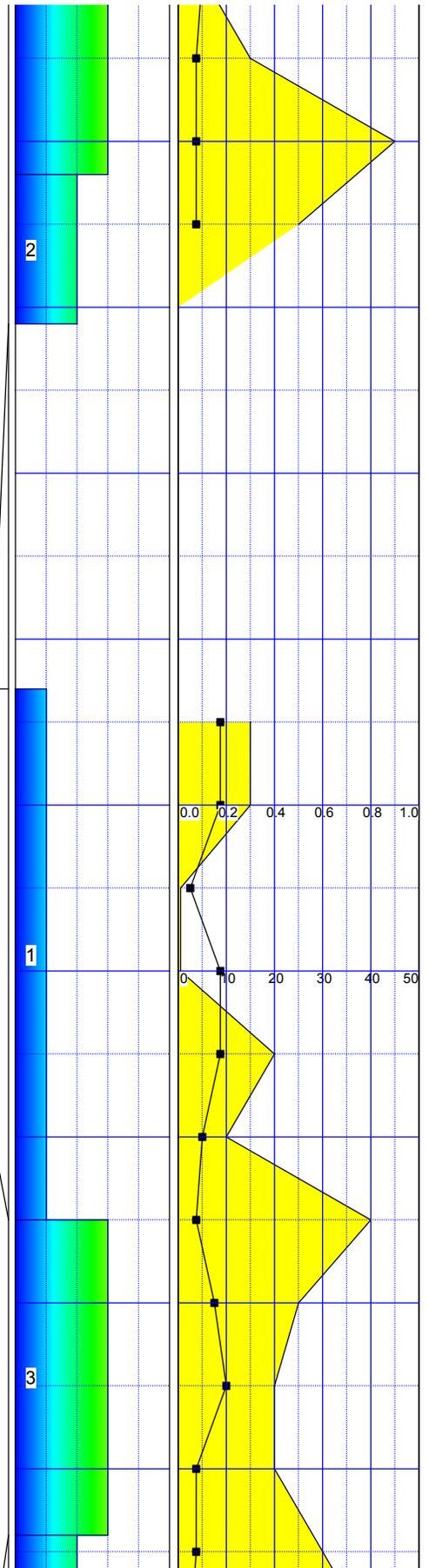
BASALT:
 COLOR: Medium gray N5 at the top, medium light gray N6 through the center and the end of the interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles are rounded to subrounded with a higher volume of vesicles at top and bottom portions of interval. Minor diktytaxitic texture from 455.4 to 455.9 feet. Glassy portion at top of interval, flow mold at 456.2 feet, and spatter from 461.2 to 462.5 feet.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pale brown 5YR 5/3 coatings throughout section, Dark yellowish brown 10YR 4/2 at the bottom of the section.

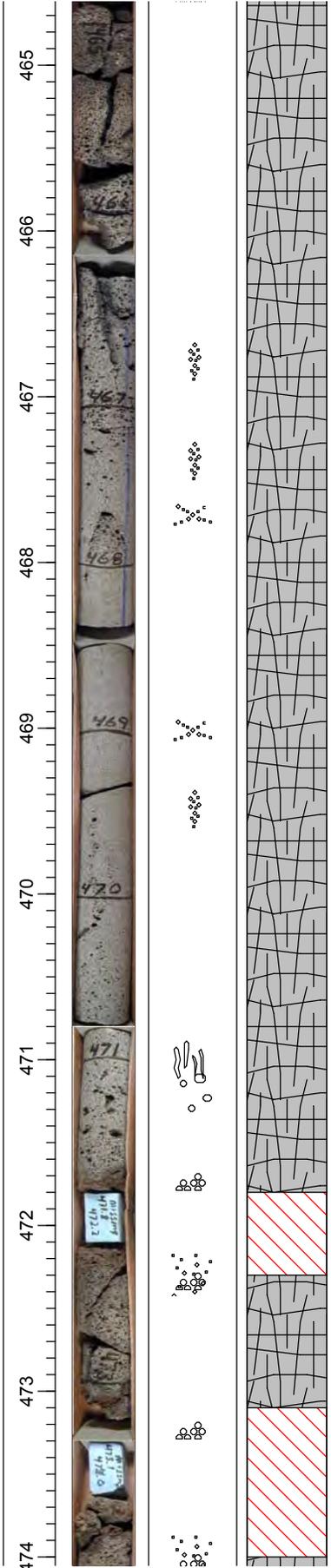
Possible flow break at 456.3 feet as evidenced by spatter and glassy texture.

MISSING INTERVAL:
 Interval not recovered

BASALT:
 COLOR: Medium gray N5 throughout the section.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles subrounded to rounded and uniform in size and distribution from 459.3 to 460.6 feet and from 461.2 to 462.5 feet. Massive portions of interval from 460.5 feet to 461.4 feet.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate yellowish brown 10YR 5/4 coating at the top of the section, moderate brown 5YR 4/4 at the bottom of the interval.

BASALT:
 COLOR: Medium gray N5.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic, subophitic, vesicular basalt. Rounded vesicles increase in size/decrease in concentration through center of section. Rubbly spatter and flow mold at top of section
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral blackish-brown pyroxene phenocrysts; 10% submillimeter to 3mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Dark reddish brown 10R 3/4 at the top of the section, grayish orange 10YR 7/4 at 463.3 feet, and pale yellowish brown 10YR 6/2 at the bottom portion of the



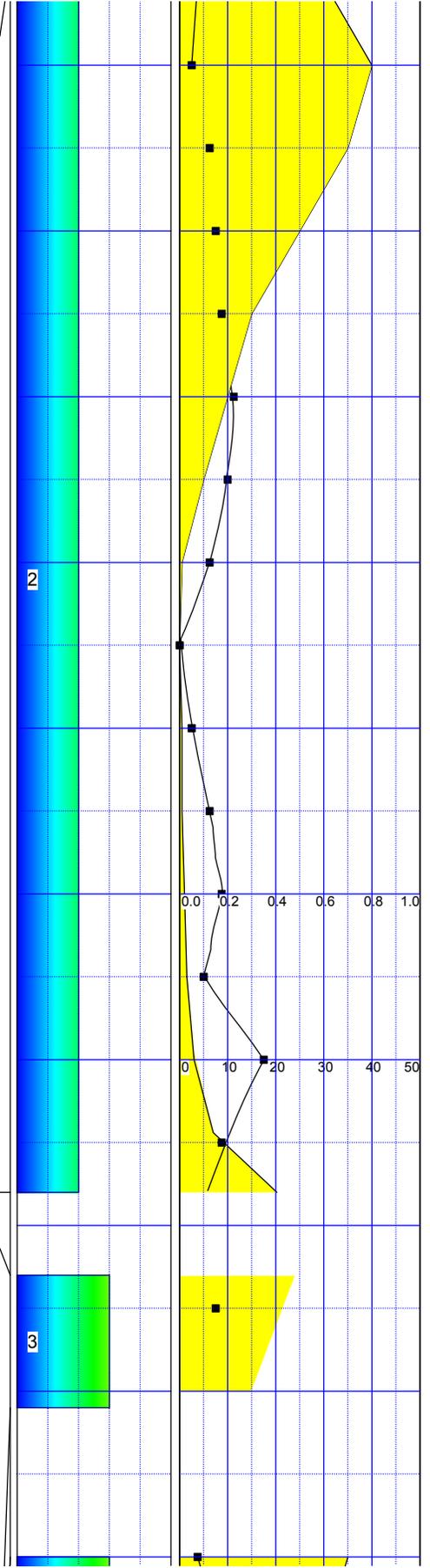


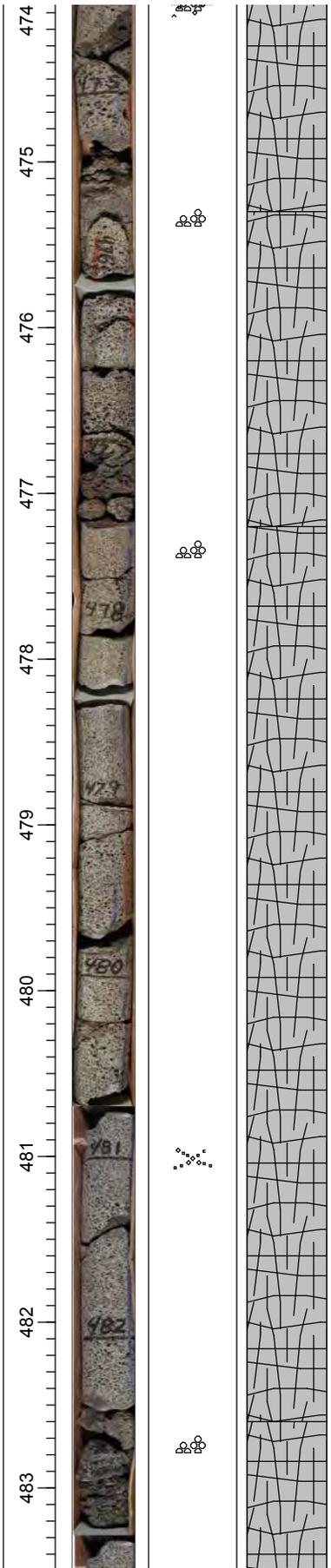
section.

BASALT:
COLOR: Medium gray N5 from 464.4 feet through 466.4 feet, followed by medium light gray N6 in the center portion and medium gray N5 at the bottom of the section.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic, subophitic, diktytaxitic, vesicular to massive basalt. Increased vesicle volume and decreased size from 464.4 to 465.9 feet and from 471.6 to 471.8 feet. Rounded to subrounded vesicles increase in size and decrease in frequency through center of interval. Diktytaxitic texture present from 466.3 feet through 468.3 feet and from 469.5 feet through 471.2 feet. Massive portion of interval from 468.3 to 469.5 feet. Flow mold at base of interval.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Light bluish gray 5B 7/1 and light brownish gray 5YR 6/1 vesicles at the top of the section. Olive gray 5Y 4/1 from 466.0 to 466.4 feet. Moderate brown 5YR 4/4 at the end of the section. Olivine phenocrysts with red coatings (hematite staining?) throughout interval.

MISSING INTERVAL:
 Interval not recovered

BASALT:
COLOR: Medium dark gray N4 throughout section.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Uniform distribution and size of subrounded to round vesicles, spatter at top and base of section.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray aphanitic groundmass.





XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate brown 5YR 4/4 in the top part of the section. Dark reddish brown 10R 3/4 in the top and end portions. Light brown 5YR 5/6 staining throughout the section.

MISSING INTERVAL:
 Interval not recovered

BASALT:
 COLOR: Medium dark gray N4 at the top, Medium gray N5 through the center and end of the interval.

TEXTURE: Porphyritic-aphanitic, glomeroporphyritic, subophitic, vesicular basalt. Vesicles subrounded to rounded, smaller and more concentrated in the top section of the interval, with an increase in size/decrease in frequency in vesicle character throughout the remainder of the interval. Spatter zone at top of interval and flow mold at the bottom.

COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% medium dark gray to medium gray aphanitic groundmass.

MAGNETIC
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate yellowish brown 10YR 5/4 and grayish red 5R 4/2 at the top. Light brownish gray 5YR 6/1 in the bottom portion of the section. Alteration of olivine (hematite staining) and oxidized or glassy groundmass.

BASALT:
 COLOR: Medium gray N5 throughout the interval. Medium dark gray N4 at 476.6 feet.

TEXTURE: Porphyritic-aphanitic, glomeroporphyritic, subophitic, vesicular basalt. Vesicle frequency increases through center of interval. Uniformly sized, subrounded to rounded vesicles throughout. Spatter at top of interval and a spatter surface or flow mold at the base.

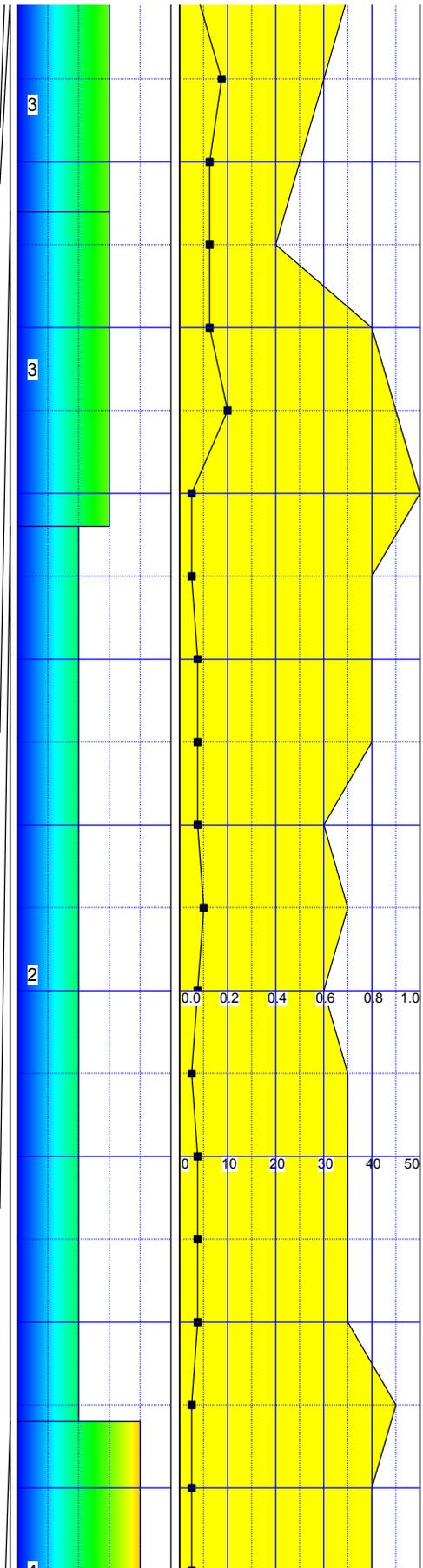
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium dark gray aphanitic groundmass.

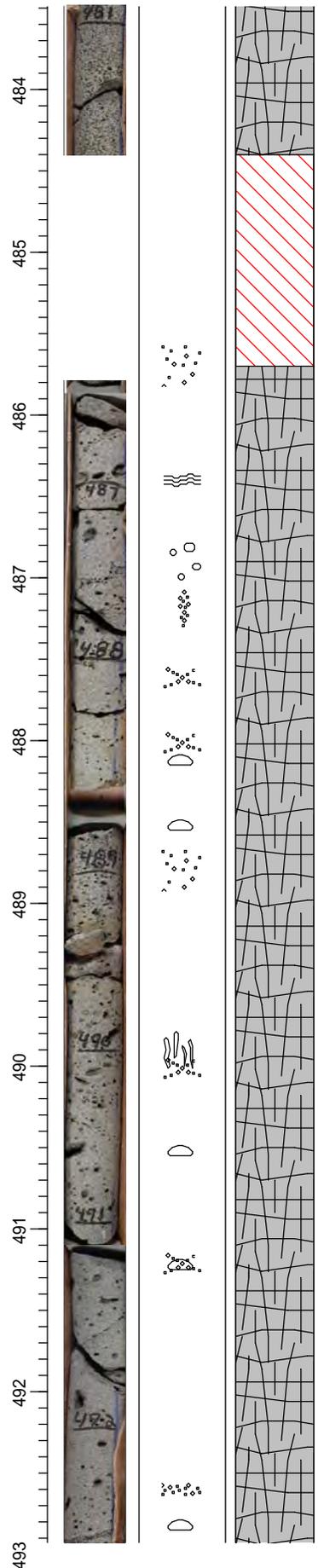
MAGNETIC
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 and dark yellowish orange 10YR 6/6 at the top of the interval. Alteration of olivine phenocryst rims throughout interval. Oxidation of glassy groundmass.

BASALT:
 COLOR: Medium dark gray N4 at top aphanitic portion of interval, grading to medium light gray N6 through the top and the center, and medium gray N5 from 480.4 to the end of the section.

TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles. Uniform vesicle concentration with smaller vesicles present at the top and bottom of interval. Flow mold at base of section.

COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to medium light gray aphanitic



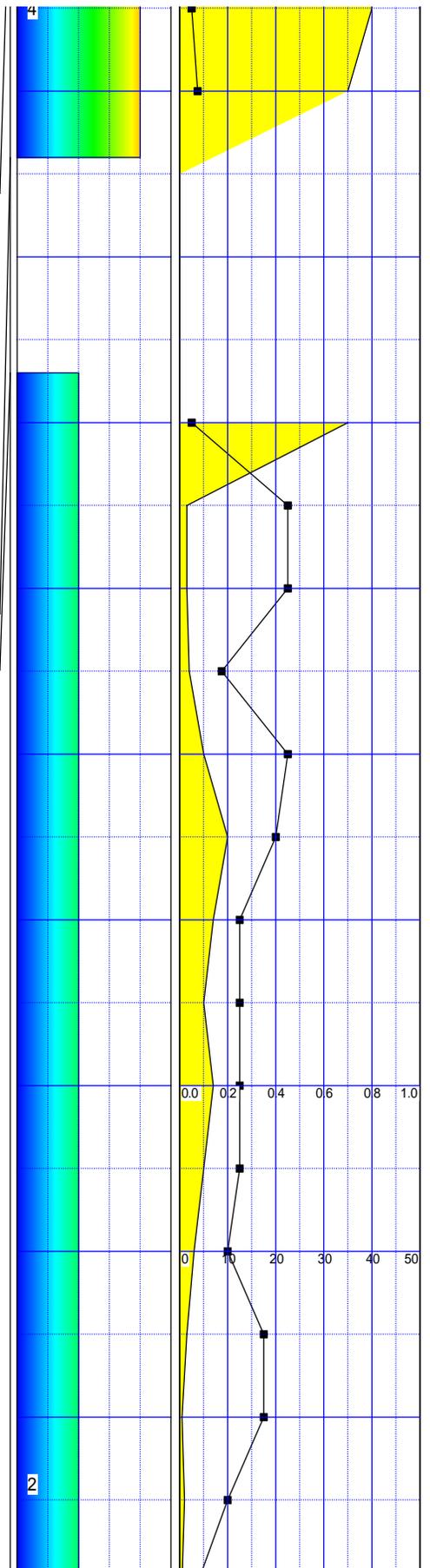


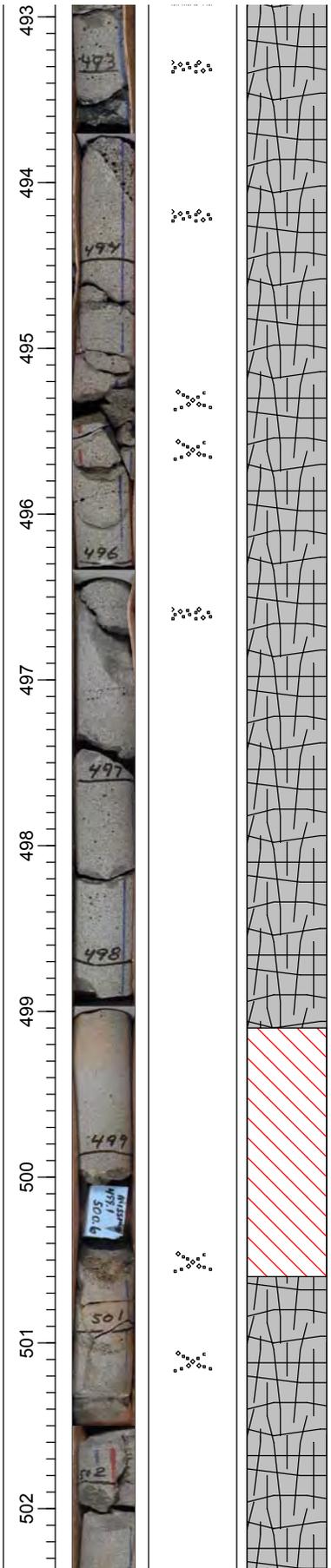
groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Brownish gray 5YR 4/1 at the top of the interval and at 477.5 feet. Dark yellowish brown 10YR 6/6 at 477.4 feet, and grayish red 5R 4/2 at 479.7 feet. Light brownish gray 5YR 6/1 to light bluish gray 5B 7/1 at the bottom of the section.

BASALT:
 COLOR: Medium gray N5.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic vesicular basalt. Rubby texture with small, subrounded to rounded vesicles distributed evenly throughout interval. Glassy groundmass.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 3mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light olive gray 5Y 6/1, light brownish gray 5YR 6/1 and grayish green 5GY 6/1 at the top, grayish orange 10YR 7/4 at the bottom.

MISSING INTERVAL:
 Interval not recovered

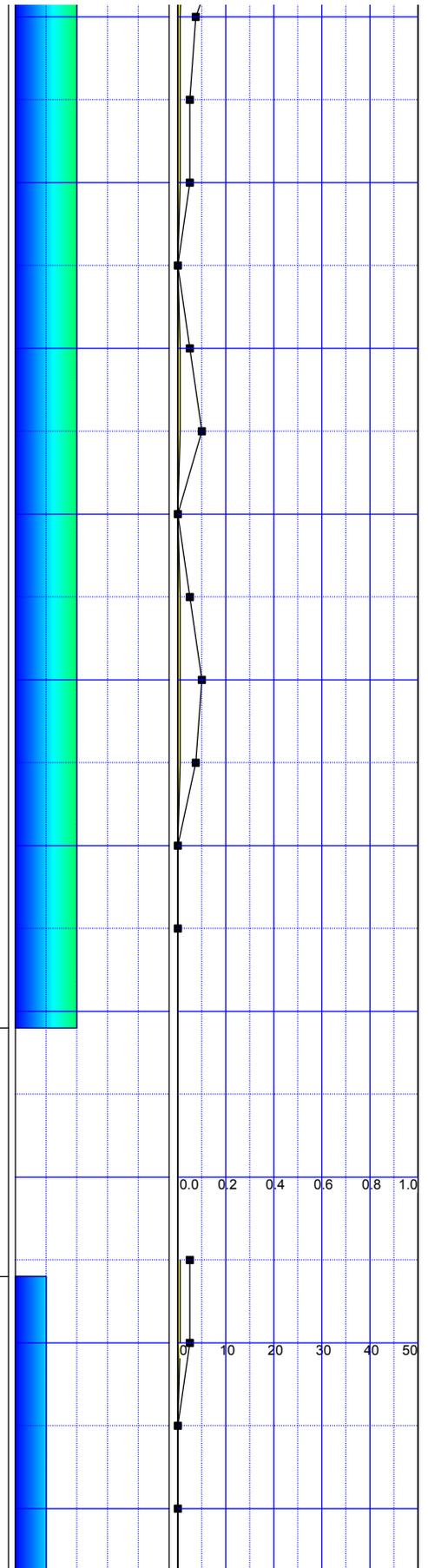
BASALT:
 COLOR: Medium dark gray N4 in the top portion, grading into medium light gray N6 through the center and medium gray N5 at the end of the interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Irregular to rounded vesicles increase in size/decrease in concentration from 486.7 to 492.5 feet. Diktytaxitic textures from 486.7 to 488.2 feet and 490.7 to 499.1 feet. Vesicle planes and bands common throughout diktytaxitic portions of interval. Flow mold located at 486.1.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray to medium light gray hypocrySTALLINE groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish brown 10R 4/6 at the top, grayish orange 10YR 7/4 at 486.5 feet. Moderate oxidation of glassy groundmass.

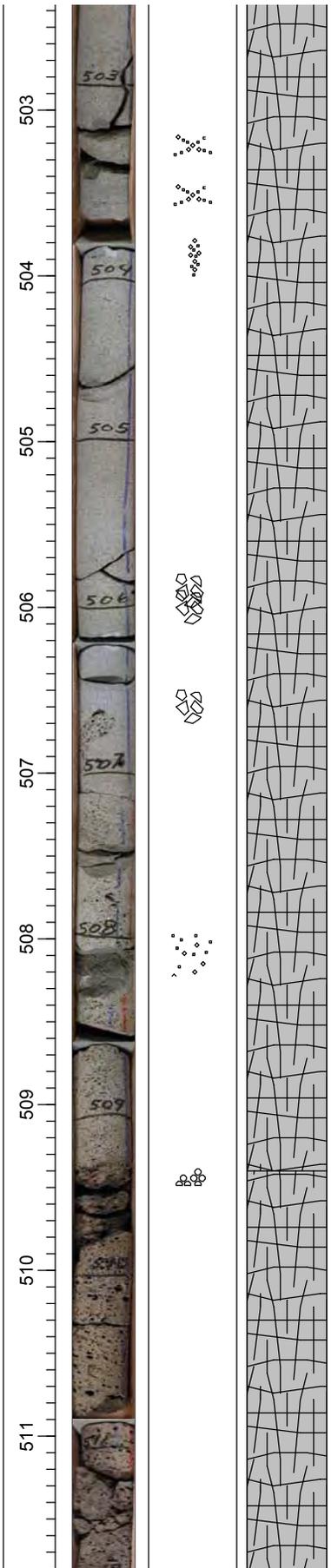




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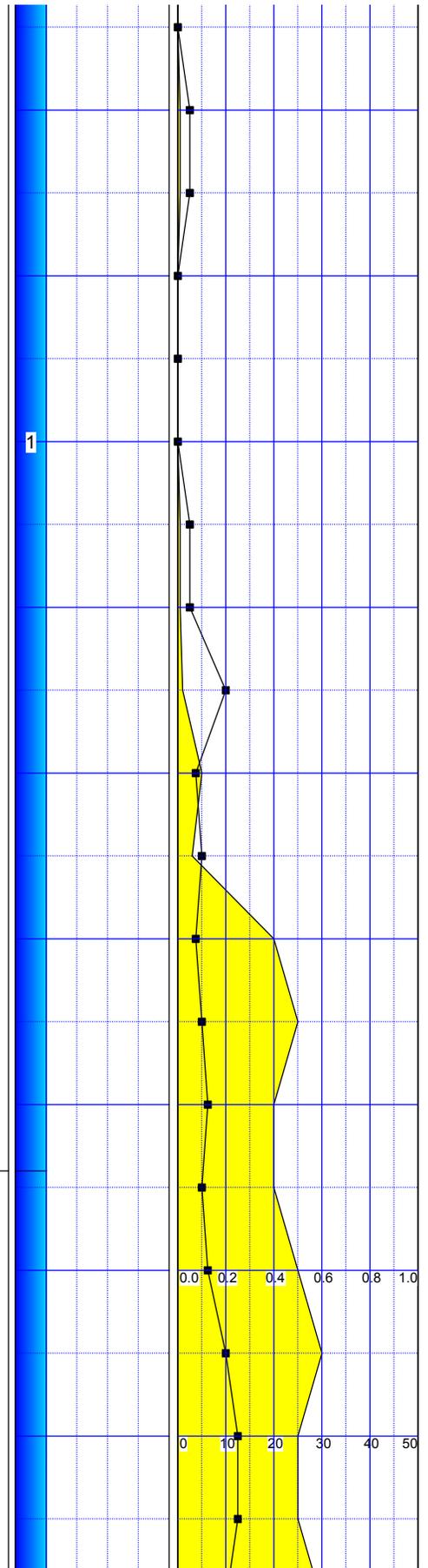
BASALT:
 COLOR: Light gray N7 at the top of the interval and medium gray N5 in glassy section at 500.6 feet. Medium gray N5 in the center of the section, grading into medium light gray N6 at the end portion.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Rounded to subrounded, uniformly sized vesicles increase in concentration to bottom of interval. Diktytaxitic from 500.6 to 509.4 feet. Flow mold at base of interval.
 COMPOSITION: 20% submillimeter to 2 millimeter subhedral to euhedral acicular white plagioclase phenocrysts; 20%

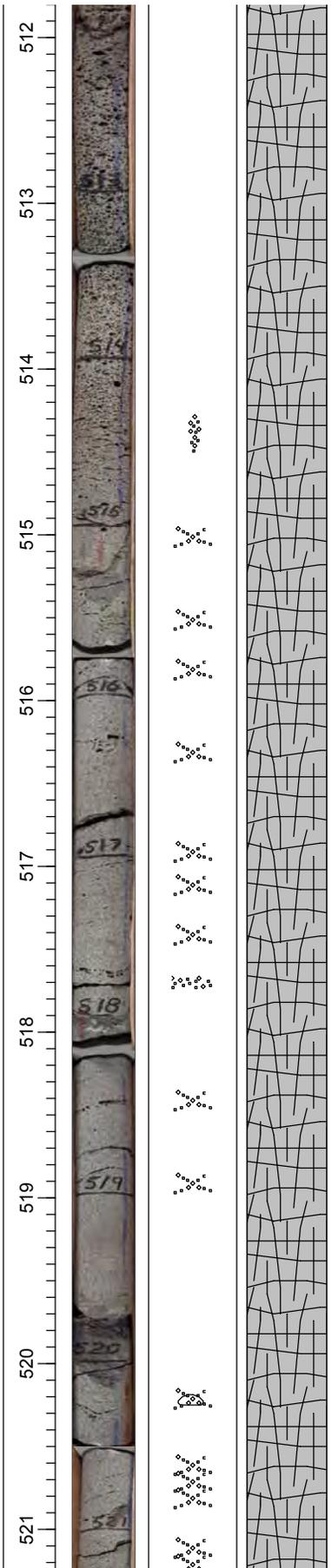




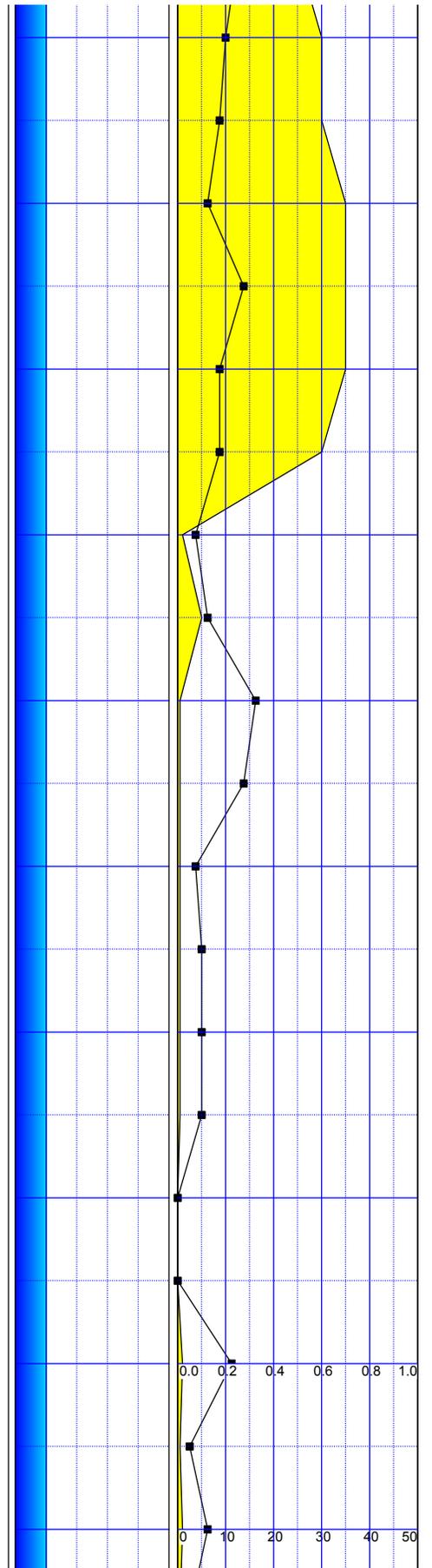
submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autoliths observed at 505.9, 506.0, 506.6, and at 507.1 feet.
 ALTERATION: Grayish orange 10YR 7/4 and brownish gray 5YR 4/1 coatings at the bottom of the interval.

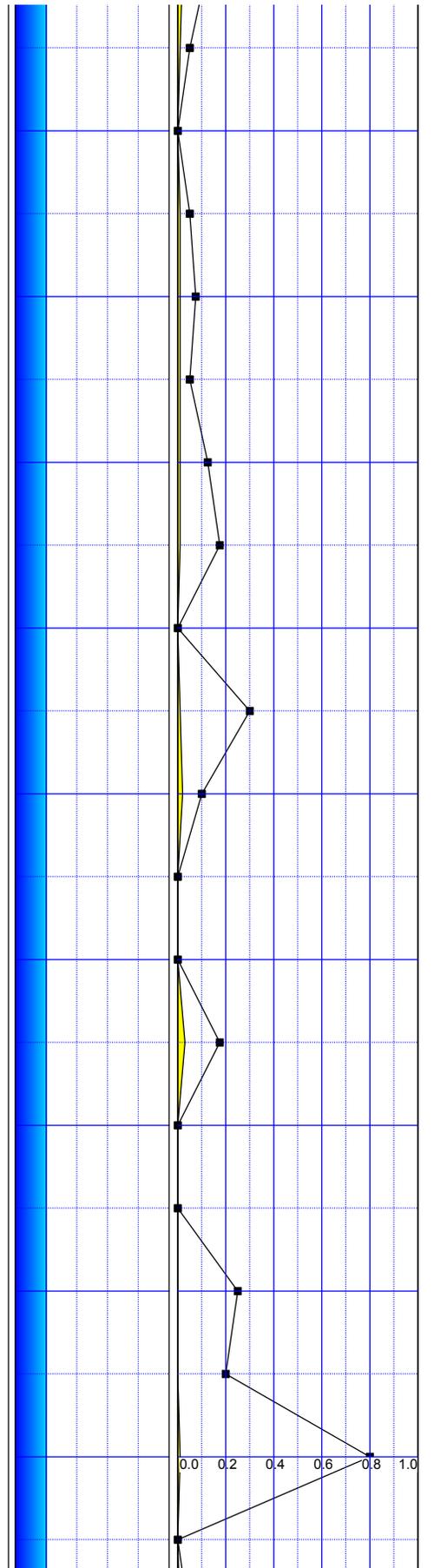
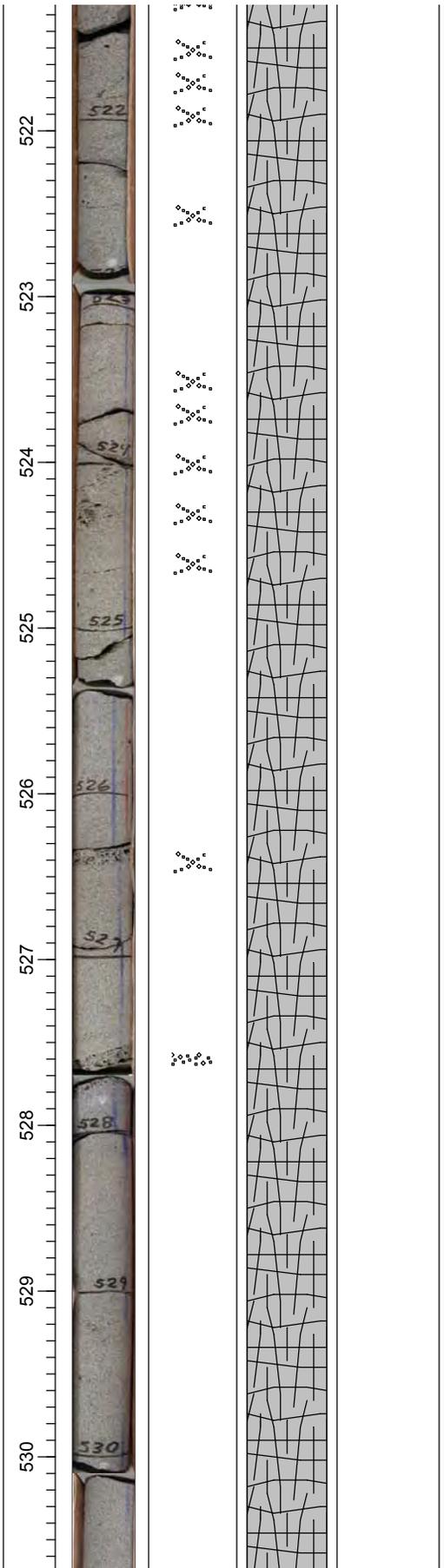
BASALT:
 COLOR: Medium dark gray N4 at the top of the interval, medium gray N5 throughout remainder. Pale brown 5YR 5/2 and grayish orange 10YR 7/4 sediment coatings throughout interval .
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. High concentrations of larger, subrounded to rounded vesicles from top of section to 514.4 feet. Diktytaxitic from 514.7 to 553.4 feet, grading into massive texture through 558.8 feet. Diktytaxitic texture resumes from 558.8 feet through 580.3 feet. Remainder of interval massive with scattered smaller vesicles, 580.3 feet to 581.3 feet. Flow mold and rubble at top of interval and spatter zone at base. Sediment coating on fracture surface at 588.4 feet.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white

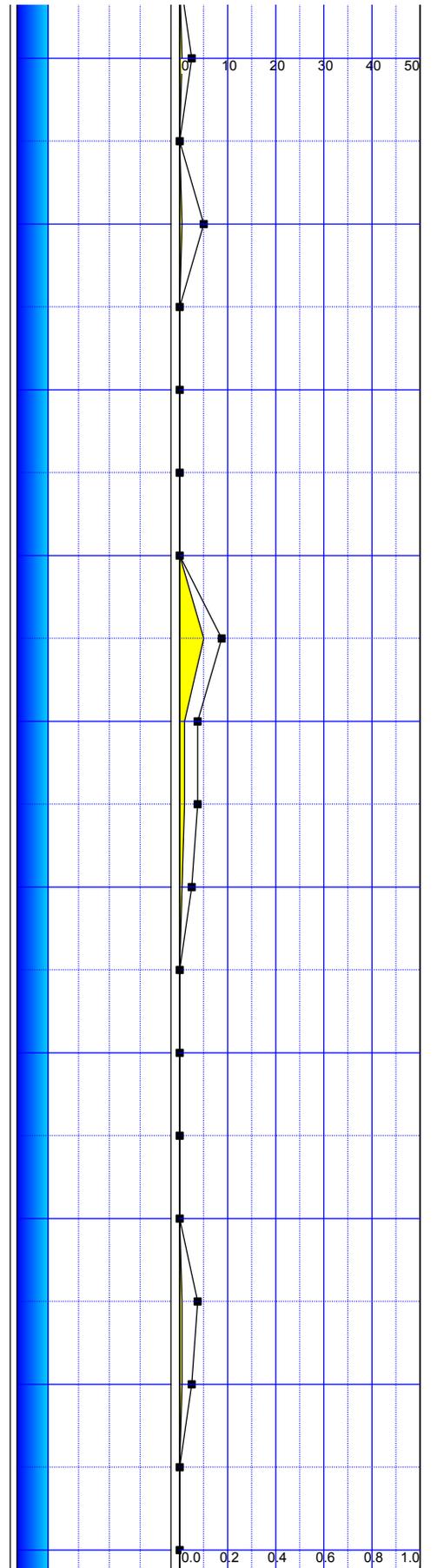
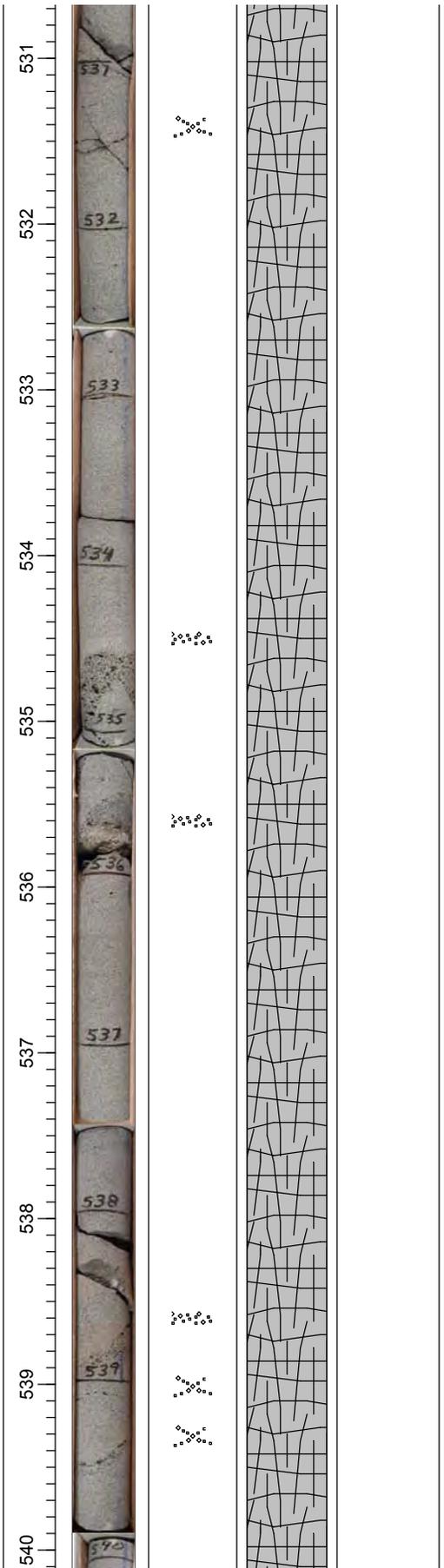


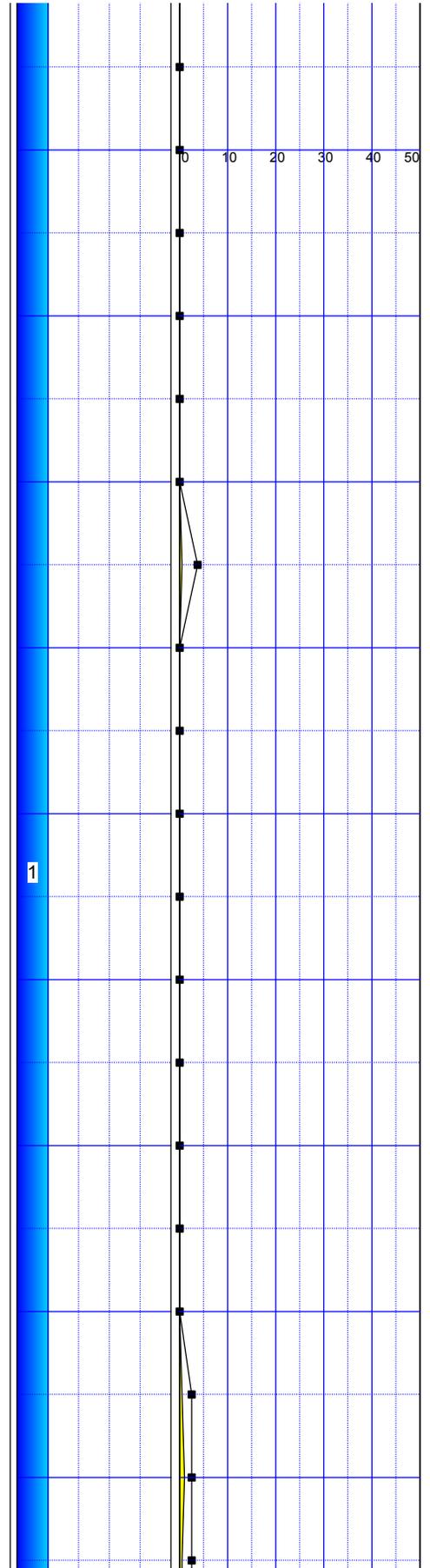
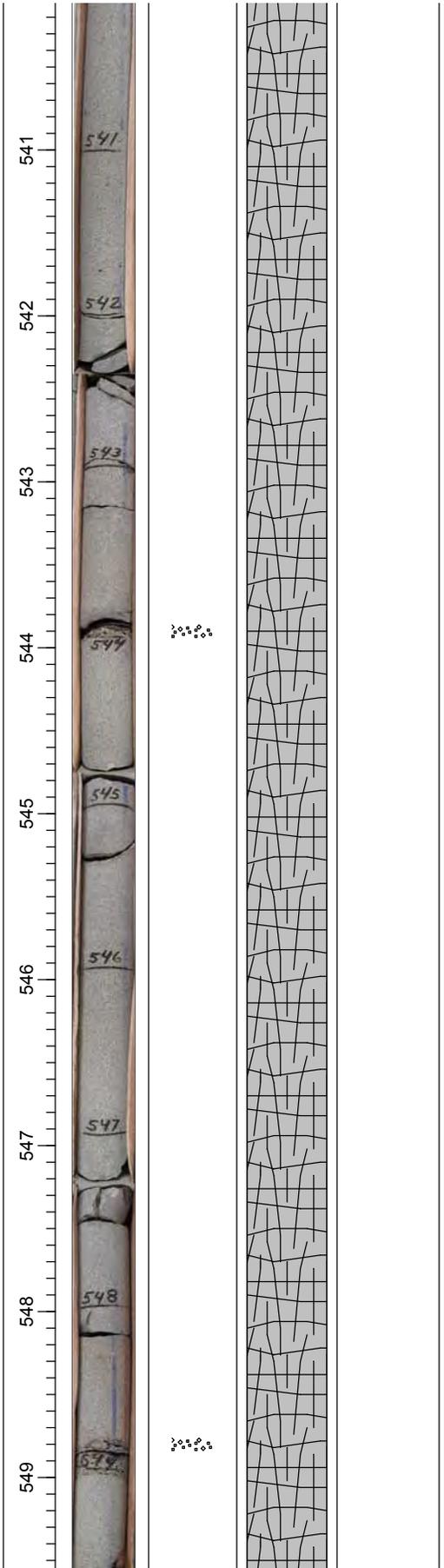


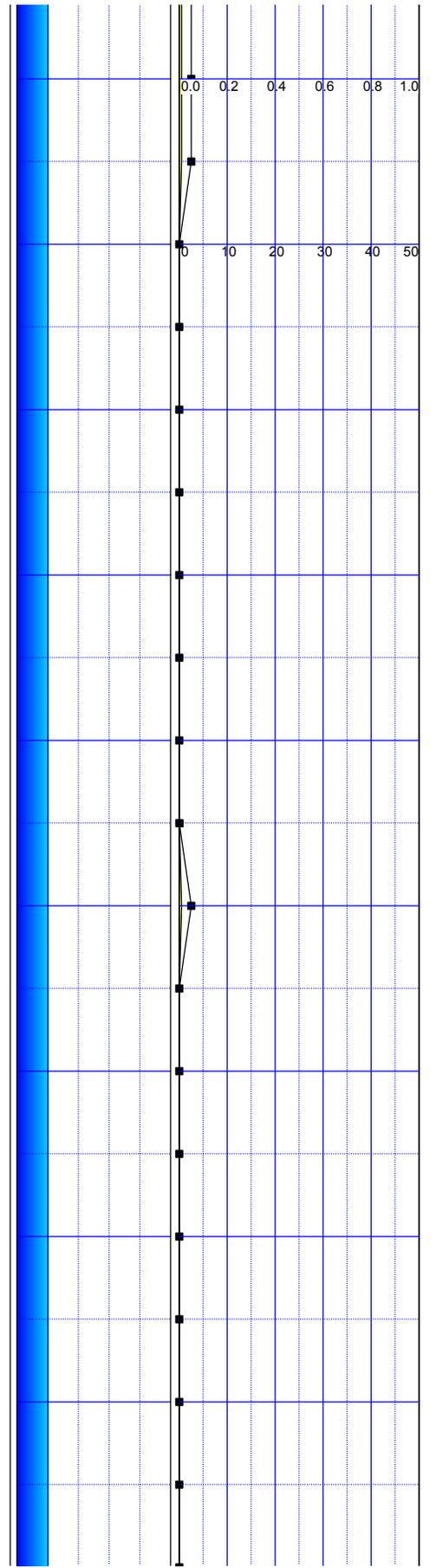
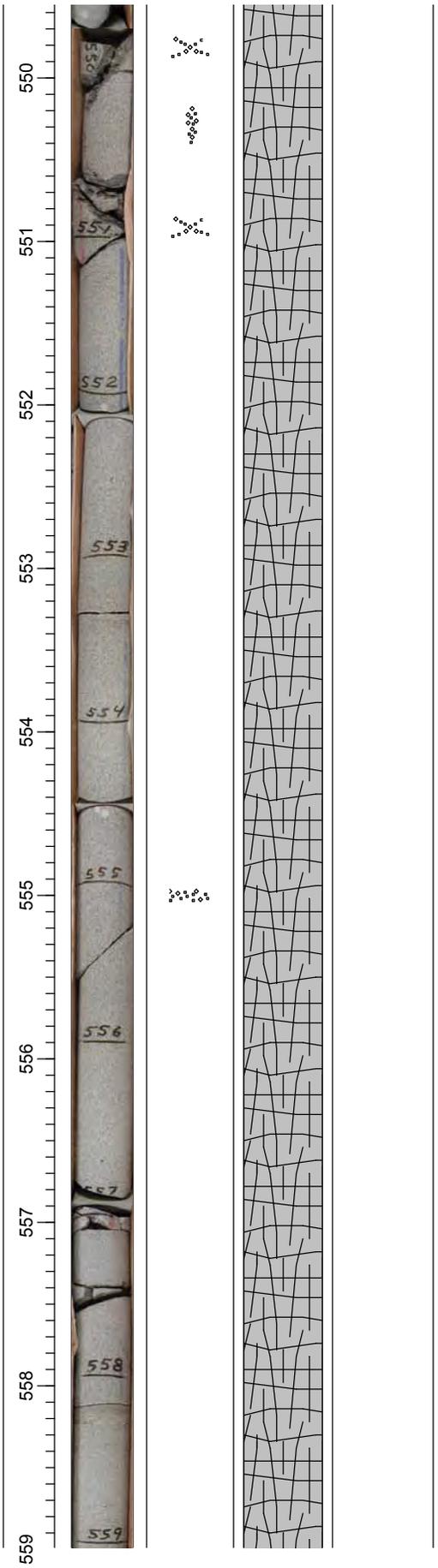
plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autolith at 534.5 feet 16.4 cm
 ALTERATION: Bluish-white 5B 9/1 coating on fractures throughout interval. Olive gray 5Y 4/1 at 527.6 feet. Grayish yellow 5Y 8/4 and light brownish gray 5YR 6/1 at 535.8 feet. Pale yellowish orange 10YR 8/6 at 548.9 feet. Pale yellowish orange coating and 10YR 8/6 and moderate orange pink 10R 7/4 spots on fracture surface from 559.8 to 560.2 feet. Moderate orange pink spots on fracture at 573.6 feet.

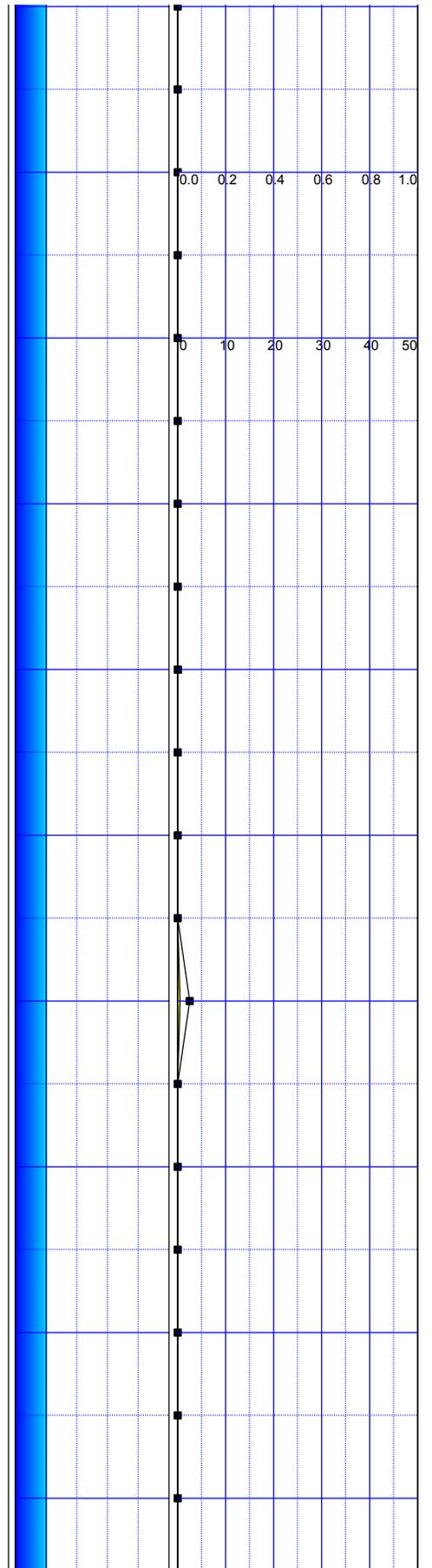
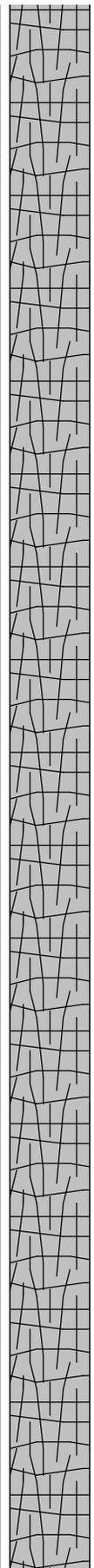
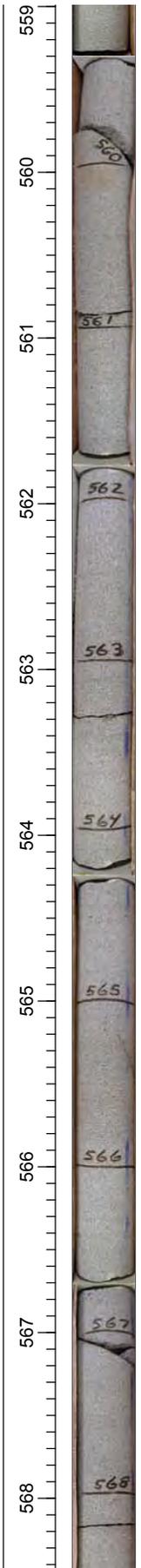


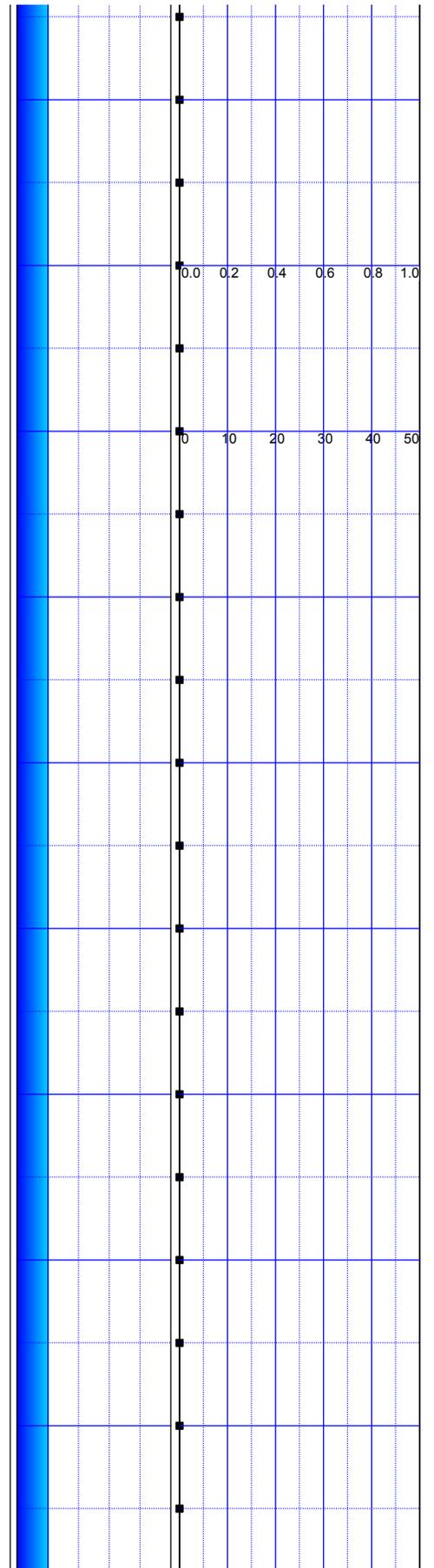
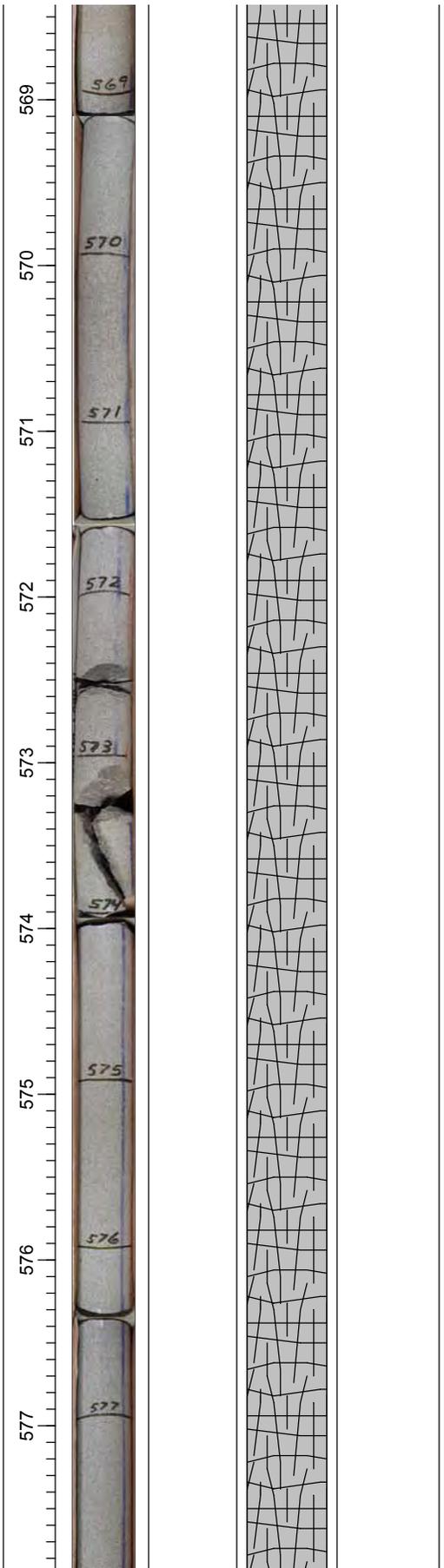


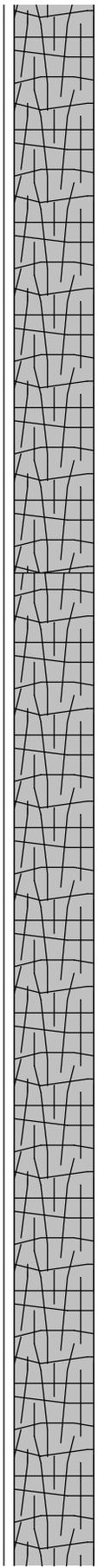
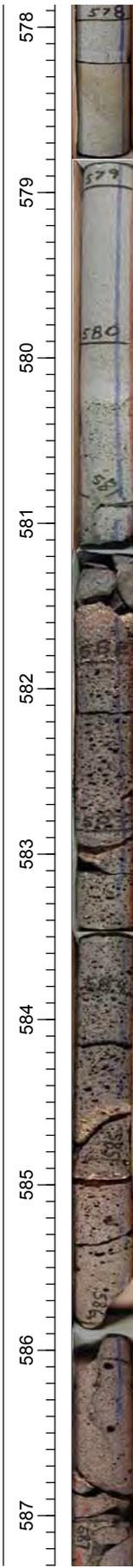




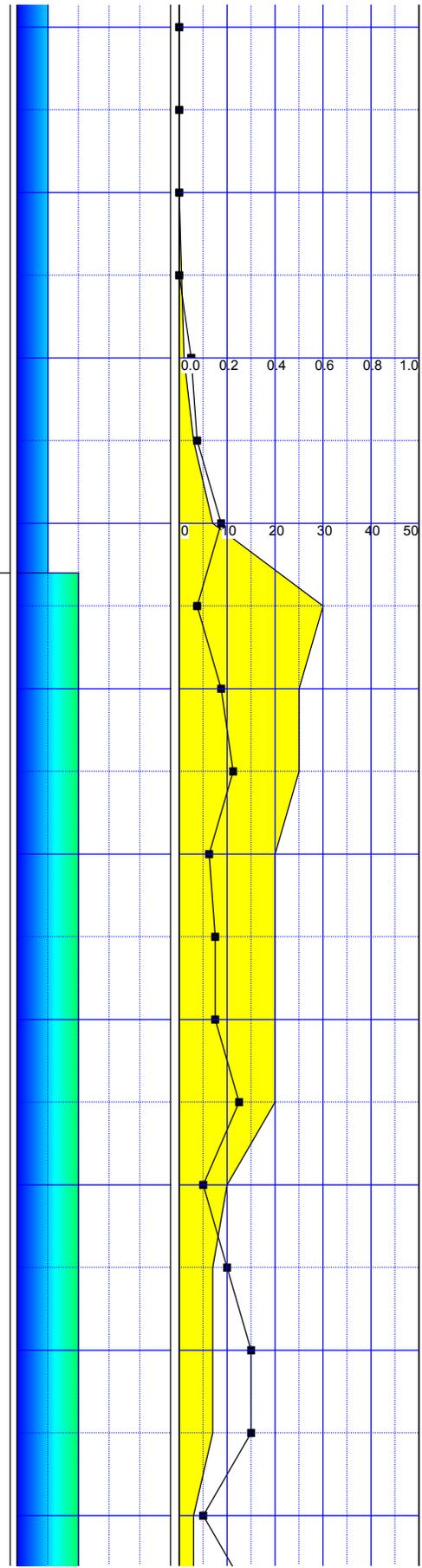


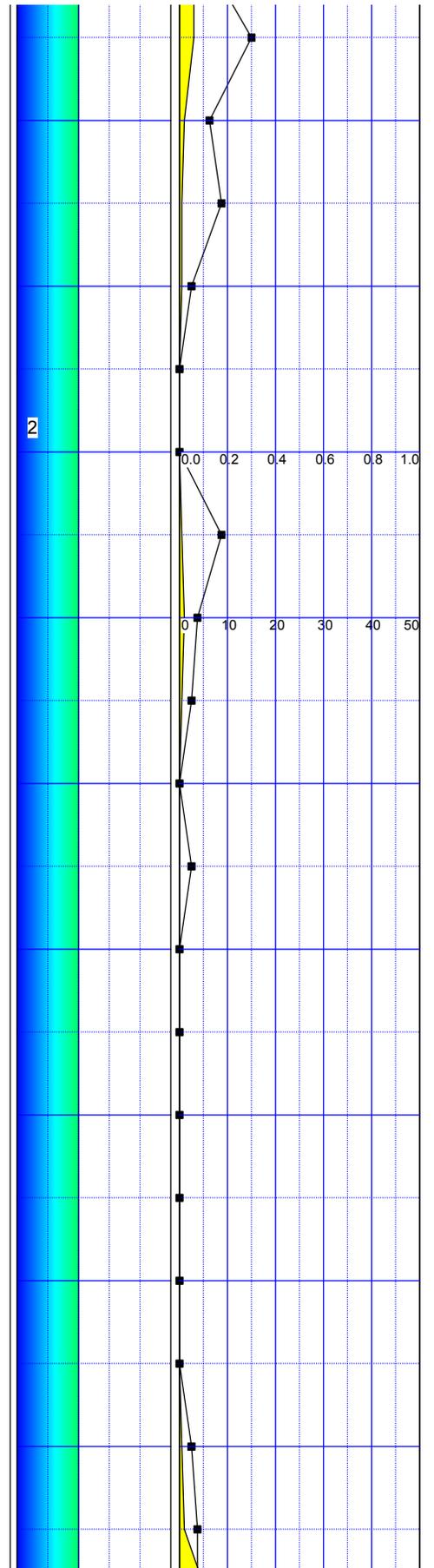
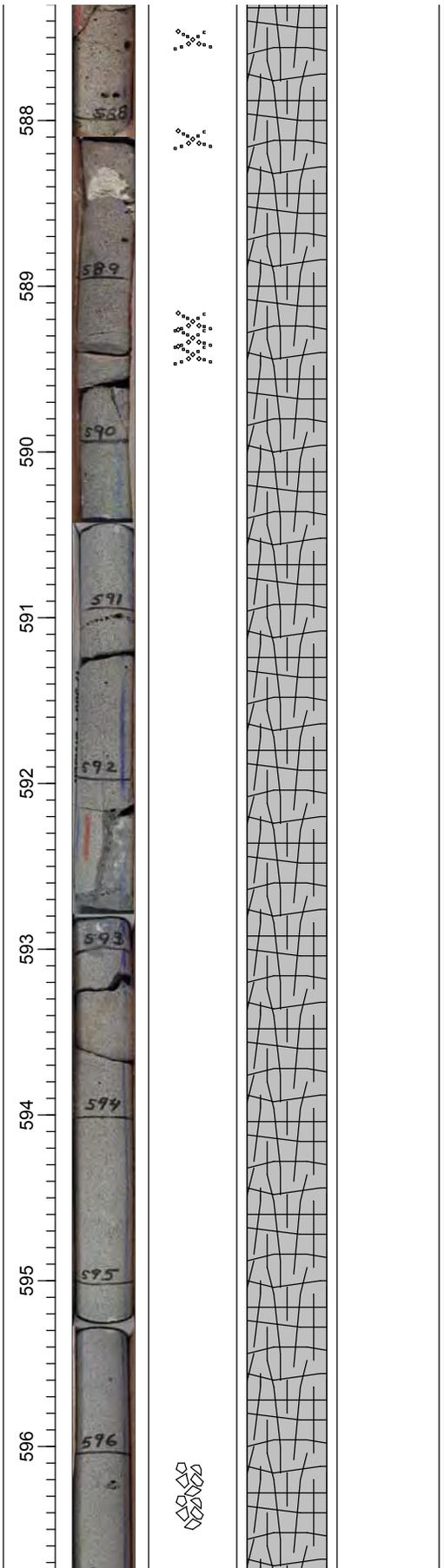


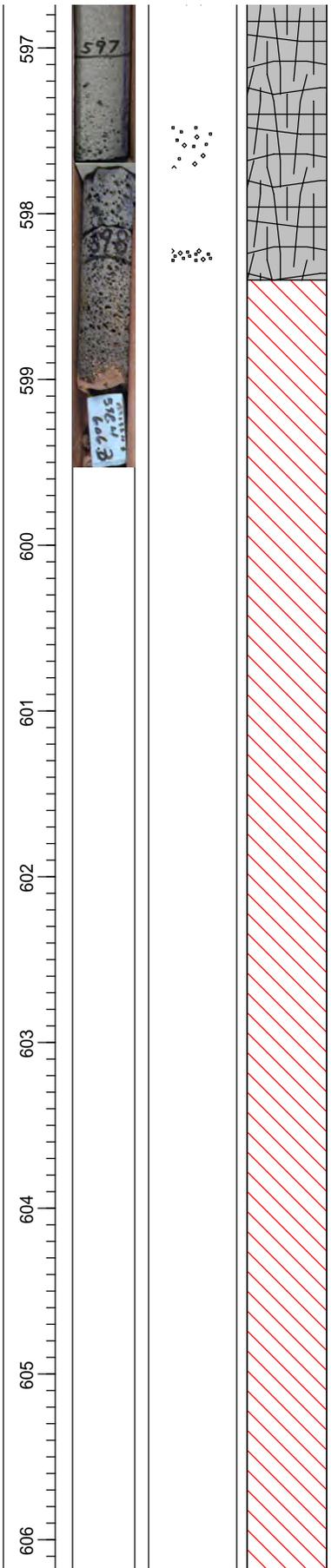




BASALT:
COLOR: Medium dark gray N4 at the top, light brownish gray 5YR 6/1 and medium light gray N6 through the center of the interval, and medium gray N5 at the bottom of the section. Grayish orange pink 5YR 7/2 sediment layers on fracture surfaces at 581.6 feet and 583.1 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Rounded to subrounded vesicles increase in size and decrease in concentration from top of interval to 485.6 feet. Diktytaxitic from 485.6 to 597.6 feet. Numerous vesicle planes and autoliths throughout diktytaxitic zone. Vesicle frequency increases from 597.6 feet to the base of the interval.
COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 3mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray to light brownish gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: 2.0 cm autolith at 596.2 feet. Autolith or vesicle column from 596.4 to 597.0 feet.
ALTERATION: Pale yellowish orange 10YR 8/6 at 584.7 and 585.1 feet, moderate reddish orange 10R 6/6 at 585.1 feet and at the top portion of the interval. Dark yellowish orange 10YR 6/6 and very pale orange 10YR 8/2 coatings on fracture surface at 586.7 feet.
 Pink sed layers on fracture surfaces could be ash

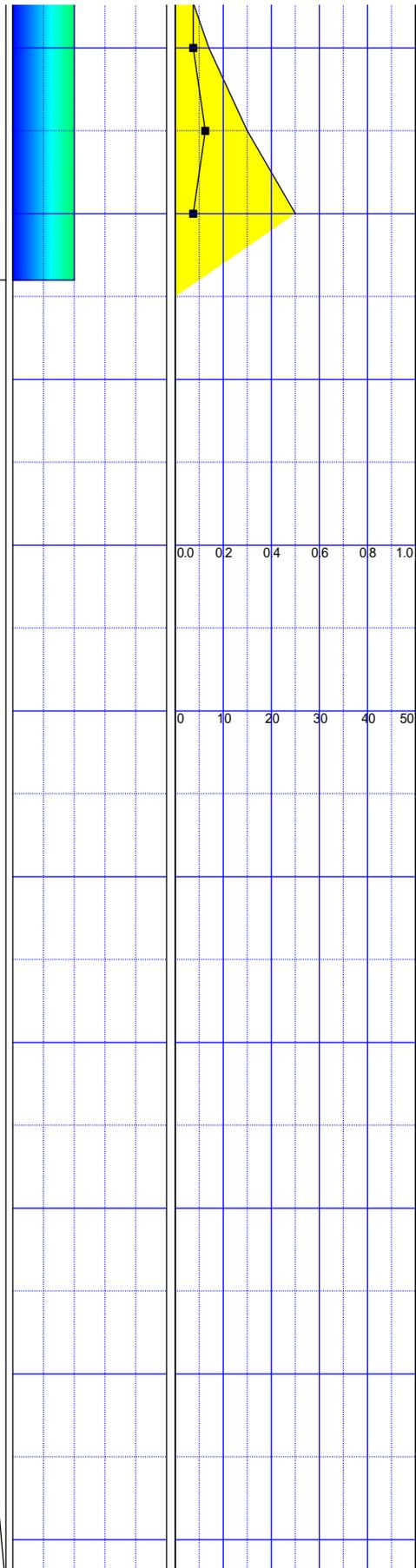


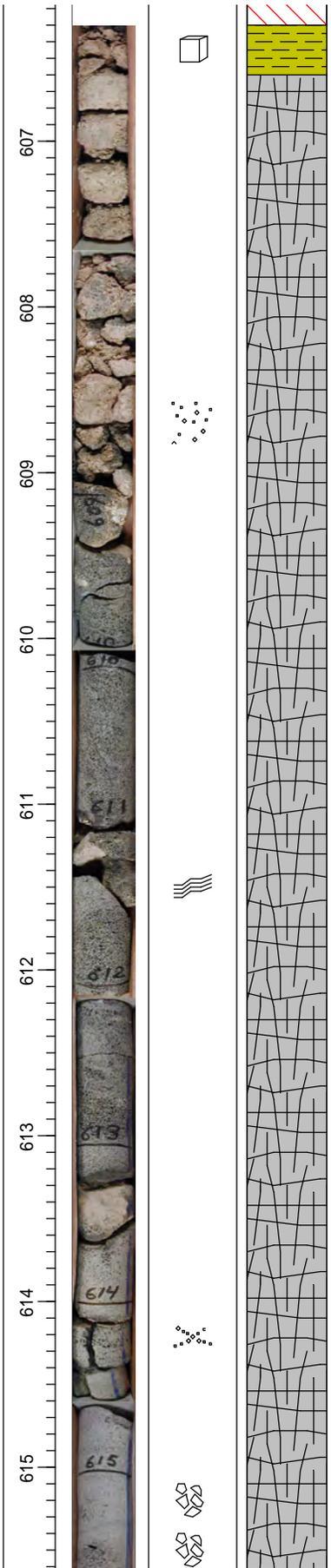




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Interval not recovered

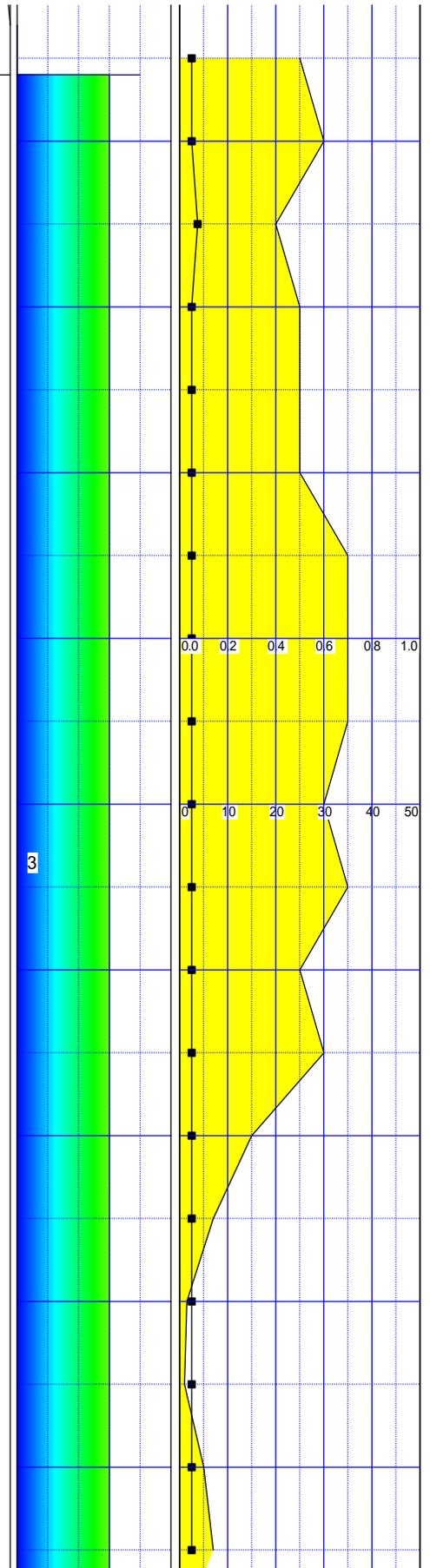
SILT AND CLAY: TEXTURE: Silt and Clay
 COLOR: Very pale orange 10YR 8/2 to moderate
 orange pink 5YR 8/4.
 CONSISTENCY: Friable
 STRUCTURES: Structureless

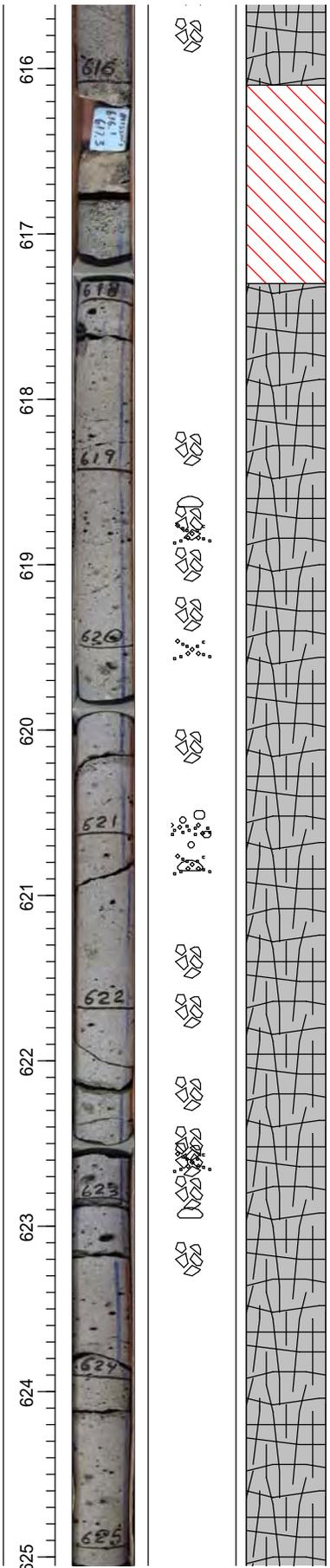




FREE CARBONATES: No
 ROCK: No
 ROOTS/FOSSILS: None noted

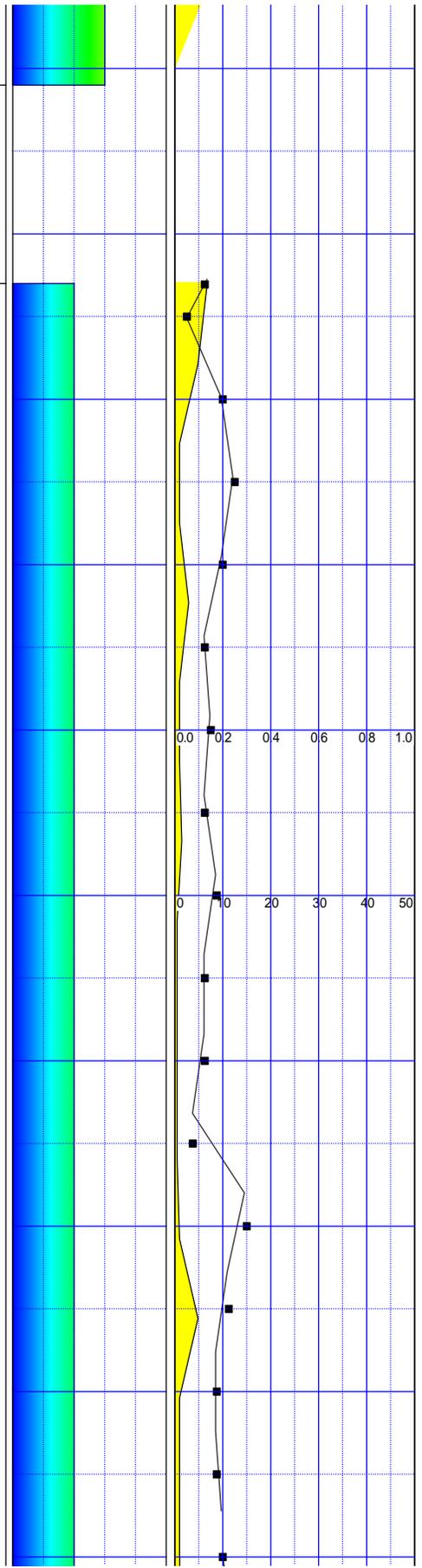
BASALT:
 COLOR: Very pale orange 10YR 8/2 sediment coating on basalt from top to 609.0 feet and throughout section as fracture and vesicle fillings. Medium gray N5 from 609.0 feet through the end of the interval.
 TEXTURE: Aphanitic to phaneritic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles subrounded to rounded; size and quantity uniform from top of interval through 612.9 feet. Vesicles grade into massive with sporadic vesiculation through the end of the section. Sediment coating on basalt from 606.6 feet through 609.0 feet.,
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: None observed.

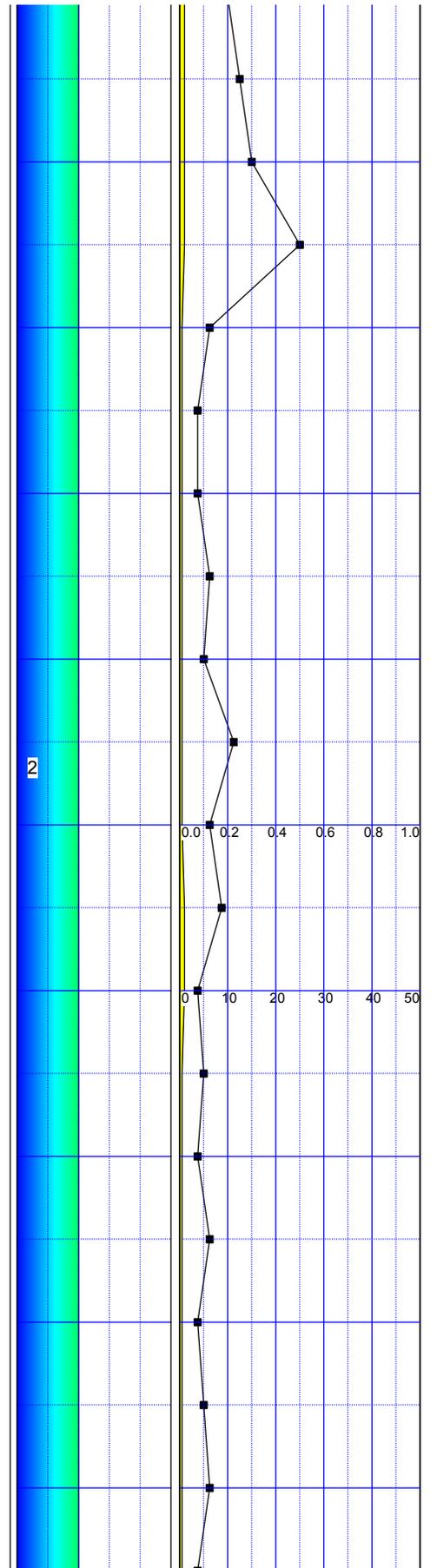
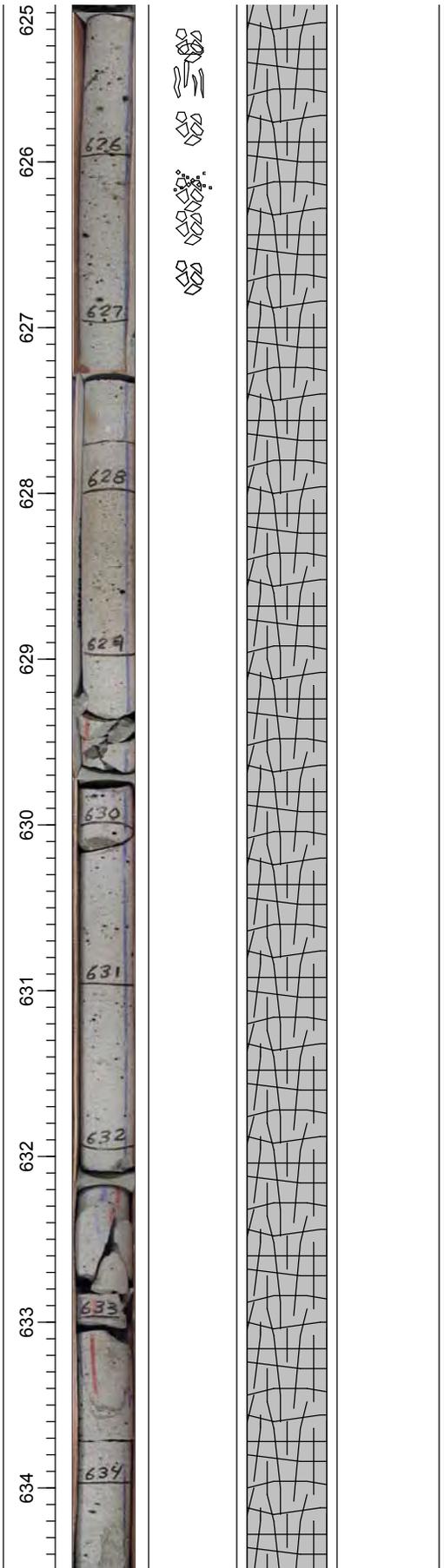


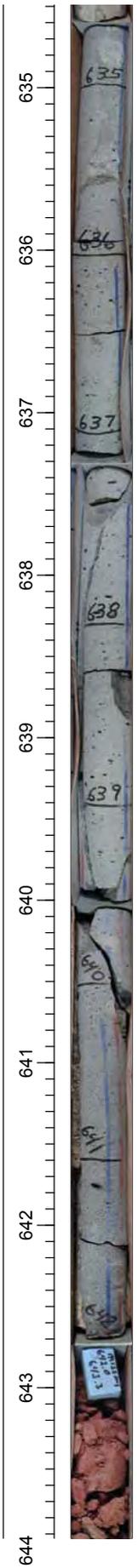


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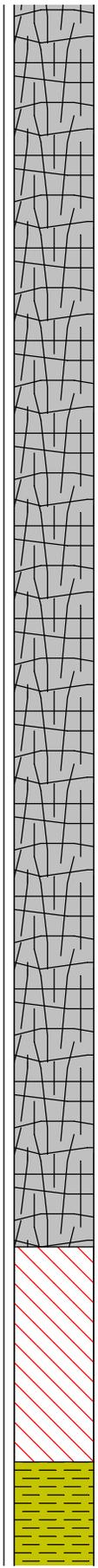
BASALT:
COLOR: Medium light gray N6. Very pale orange 10YR 8/2 sediment coatings at the top and throughout as vesicle fillings.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Minor vesicles from the top to 617.9 feet. Grades into massive with sporadic, larger vesicles and vesicle planes throughout remainder of interval. Vesicles rounded to irregular.
COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Autoliths observed at 618.3 feet, 618.75 feet, 619.0 feet, 619.3 feet, 620.1 feet, 621.4 feet, 621.7 feet, 622.2 feet, 622.5 feet, 622.6 feet, 622.8 feet, 623.2 feet, 625.3 feet, 625.8 feet, 626.2 feet, 626.7 feet, 626.7 feet, 626.4 feet, and at 637.1 feet.
ALTERATION: Light brown 5YR 5/6 coating on fracture surface at 617.9 feet. Moderate reddish brown 10R 4/6 and moderate red 10R 6/6 at 642.0 feet.





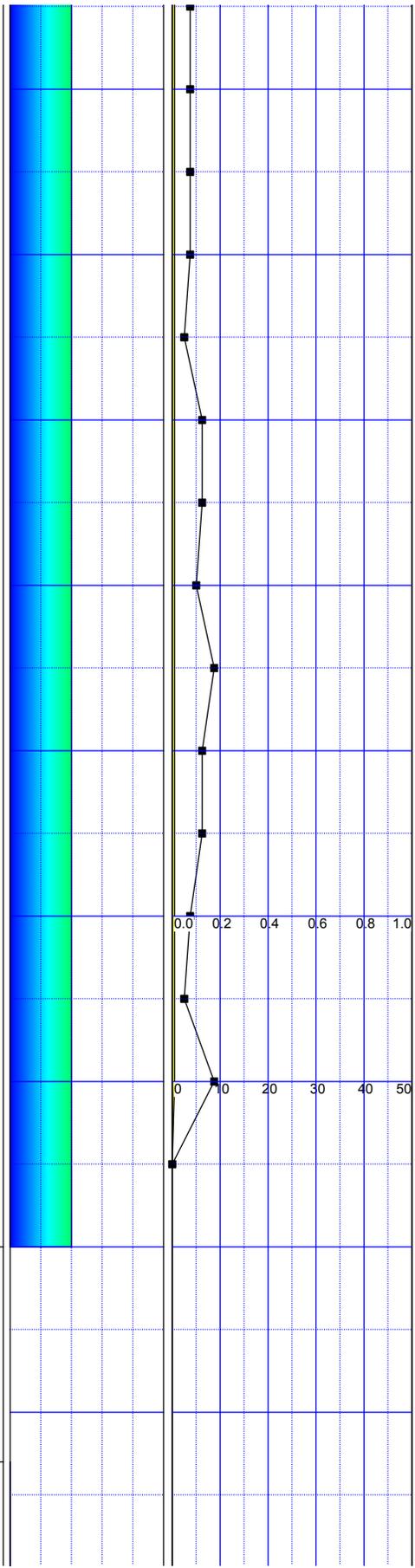


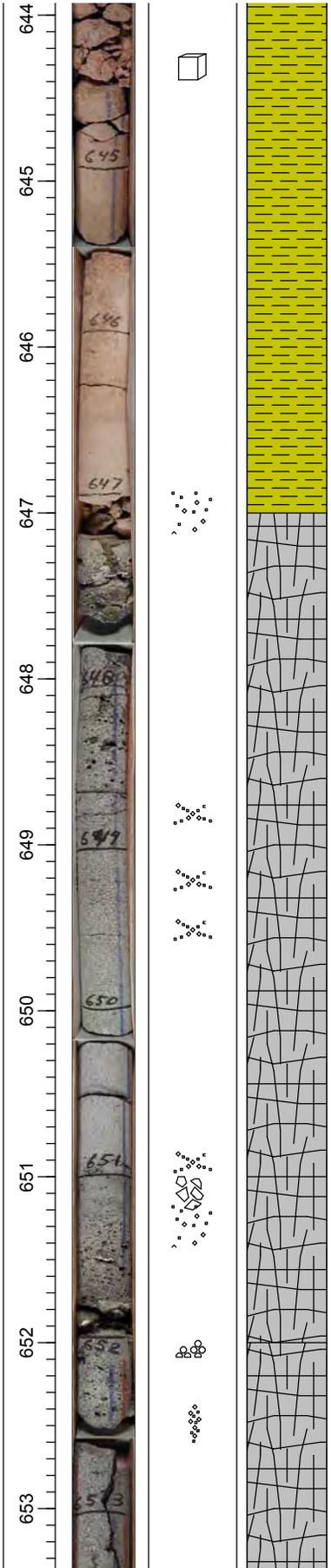
NO
NO



MISSING INTERVAL:
Interval not recovered

SILT AND CLAY: TEXTURE: Silt and Clay
 COLOR: Moderate reddish brown 10R 6/6 at the top of the section, dark yellowish orange 10YR 6/6 to pale yellowish orange 10YR 8/6 throughout remainder of interval.
 CONSISTENCY: Hard to Friable

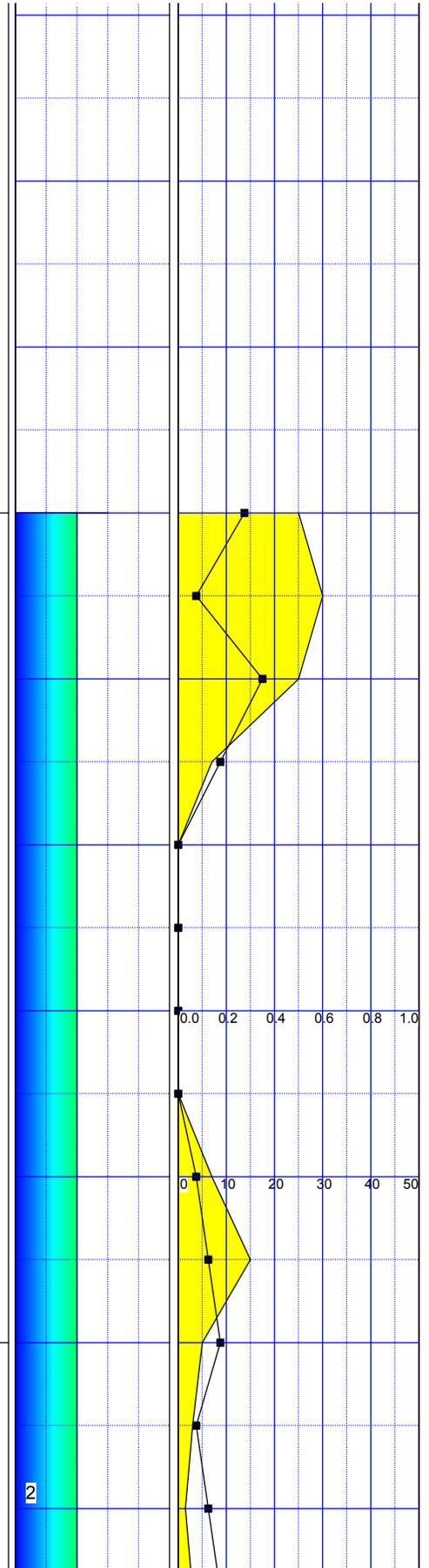


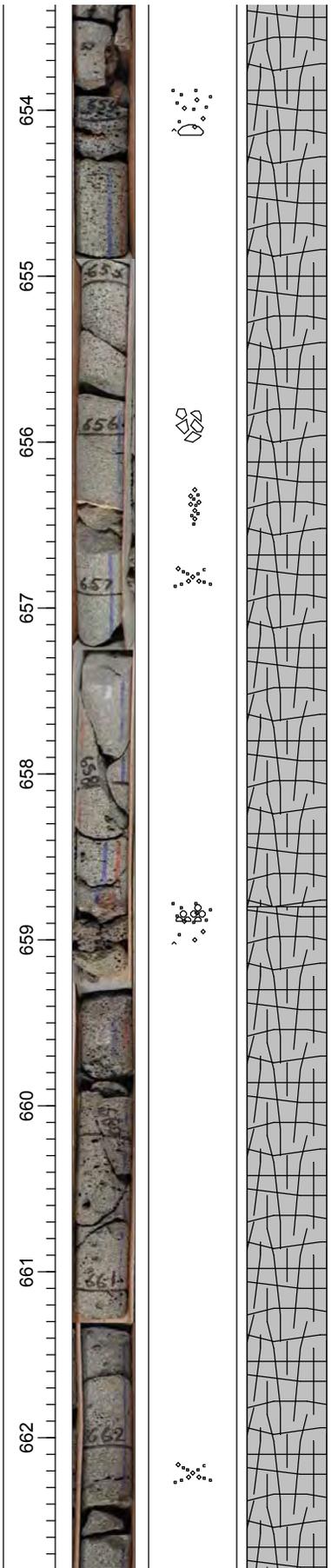


STRUCTURES: Structureless
 FREE CARBONATES: No
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Medium dark gray N4 at the top of interval, grading into medium gray N5. White N9 vesicle fillings throughout the interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Vesicles irregular to rounded. Vesicular from top of interval through 649.5 feet. Diktytaxitic from 649.5 feet to 650.2 feet, grading into massive texture to 651.3 feet. Vesicular from 651.3 feet. to end of interval. Glassy texture at base of section.
 COMPOSITION: 20% submillimeter to 4mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 3mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autolith observed at 651.1 feet.
 ALTERATION: Bluish gray 5B 9/1 vesicle fillings at top of interval, white N9 coating on fracture surfaces and in vesicles at 651.5 feet. Alteration of groundmass throughout section.

BASALT:
 COLOR: Medium gray N5 at the top and bottom portion of the interval, medium dark gray N4 through the central portion. Very pale orange 10YR 8/2 sediment fracture fillings.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Subrounded to rounded vesicles throughout interval. Diktytaxitic with minor vesicles from top of interval through 653.4 feet. Vesicular from 654.0 to 655.8 feet.

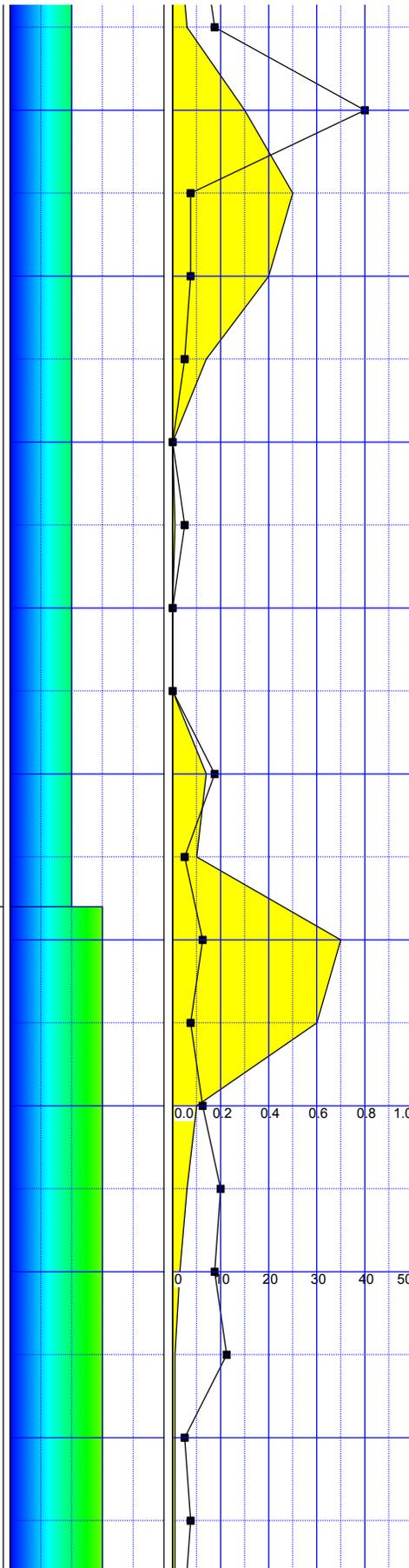


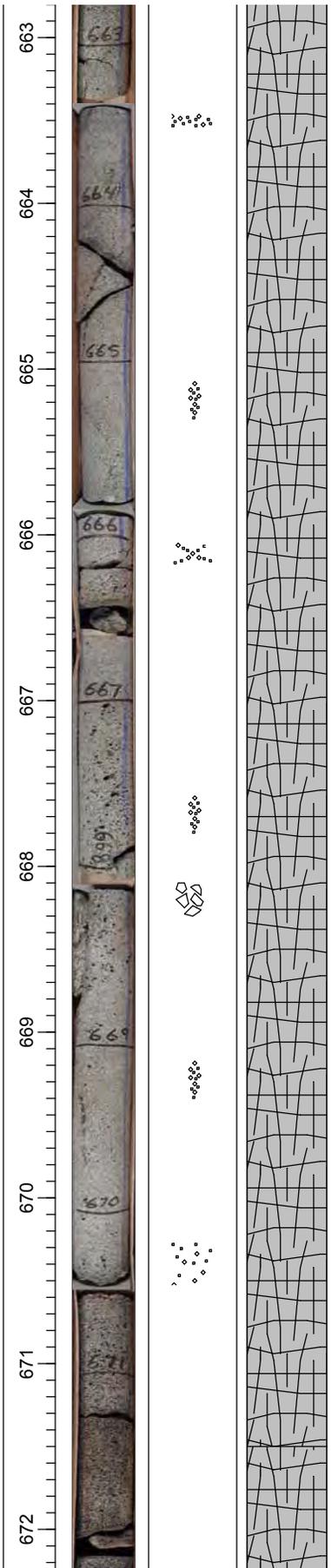


Diktytaxitic texture resumes from 655.8 feet to 658.3 feet. Vesicular to massive from 658.3 feet through the end of the interval. Spatter present top and base of section, flow mold at base of section.
 COMPOSITION: 20% 1mm to 5mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autolith observed at 655.9 feet.
 ALTERATION: Pale yellowish orange 10YR 8/6 vesicle fillings at 653.9 feet and fracture fillings at 654.3 and 654.7 feet. Grayish red 5R 4/2 staining at bottom of interval. Alteration of groundmass prevalent throughout section.

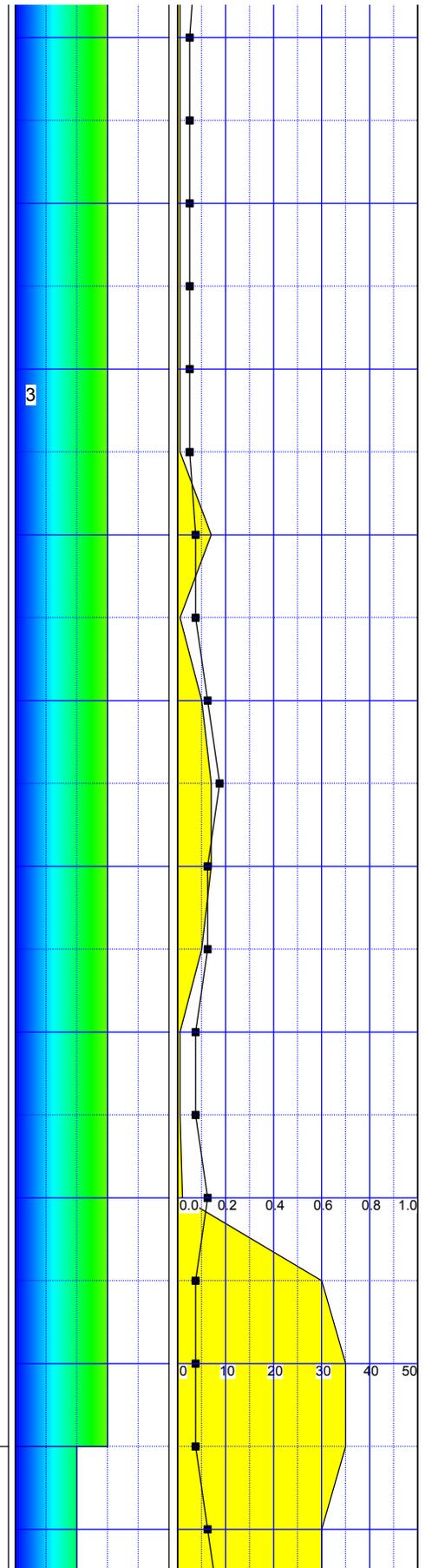
Abrupt color break from 653.9 feet to 664.2 feet--medium dark gray N4 to medium gray N5.

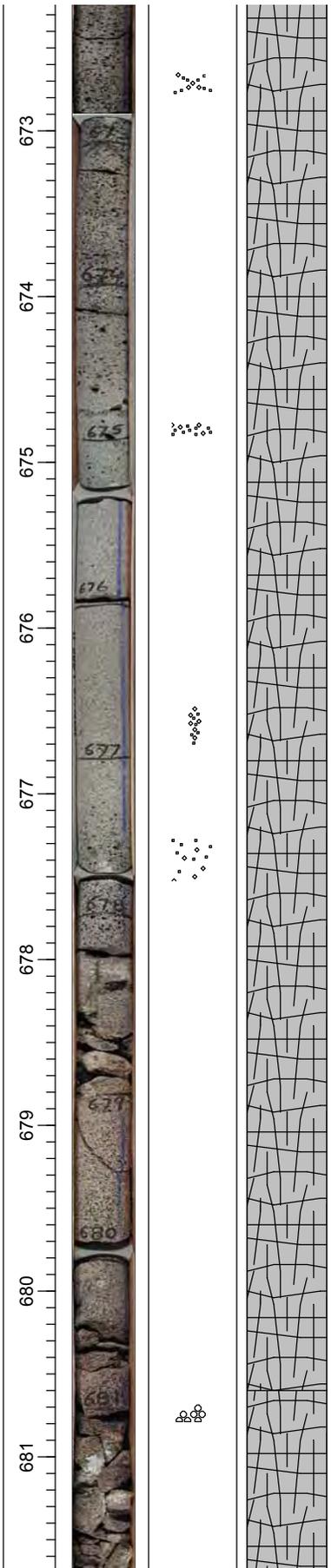
BASALT:
 COLOR: Medium dark gray N4 to medium gray N5 through top and center of interval. Brownish gray 5YR 4/1 at bottom of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Vesicles subrounded to rounded; concentration decreases and size increases from top to 661.2 feet. Diktytaxitic from 661.2 feet to 670.4 feet. Vesicle planes, columns, and bands common throughout interval.
 COMPOSITION: 20% 1mm to 4mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium dark gray to medium gray to brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autolith observed at 668.2 feet.
 ALTERATION: Grayish red 5R 4/2 oxidation or glassy groundmass at top. Pale yellowish orange 10YR 8/6 fracture coating at 662.3 feet. Very pale orange 10YR 8/2 fracture coatings throughout interval and at bottom portion of section.





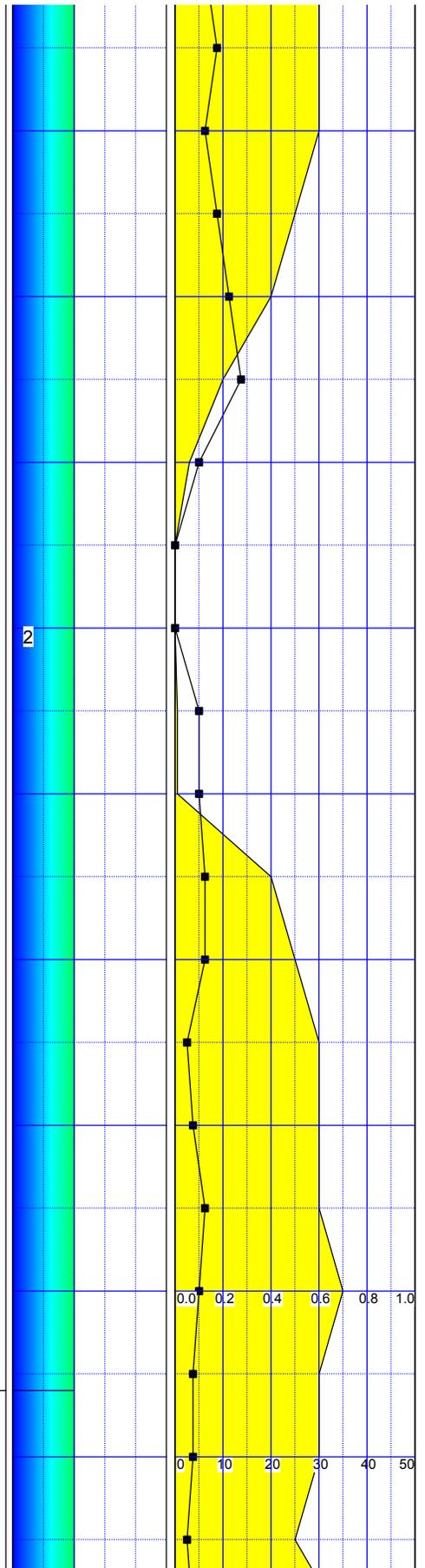
BASALT:
 COLOR: Medium dark gray N4.
 TEXTURE: Porphyritic-aphanitic,
 glomeroporphyritic granular, subophitic,
 diktytaxitic, vesicular basalt. High
 concentration of uniformly sized, subrounded
 to rounded, vesicles to 674.2 feet, grading

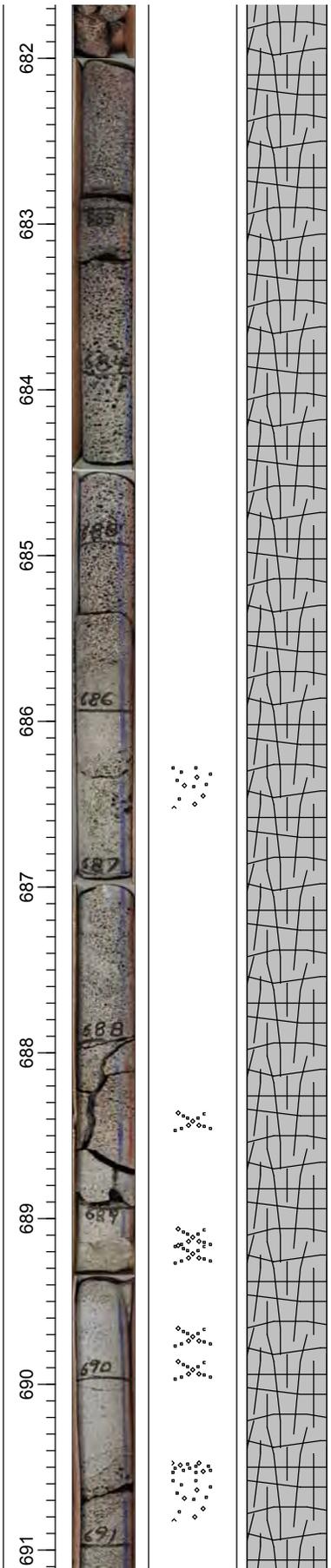




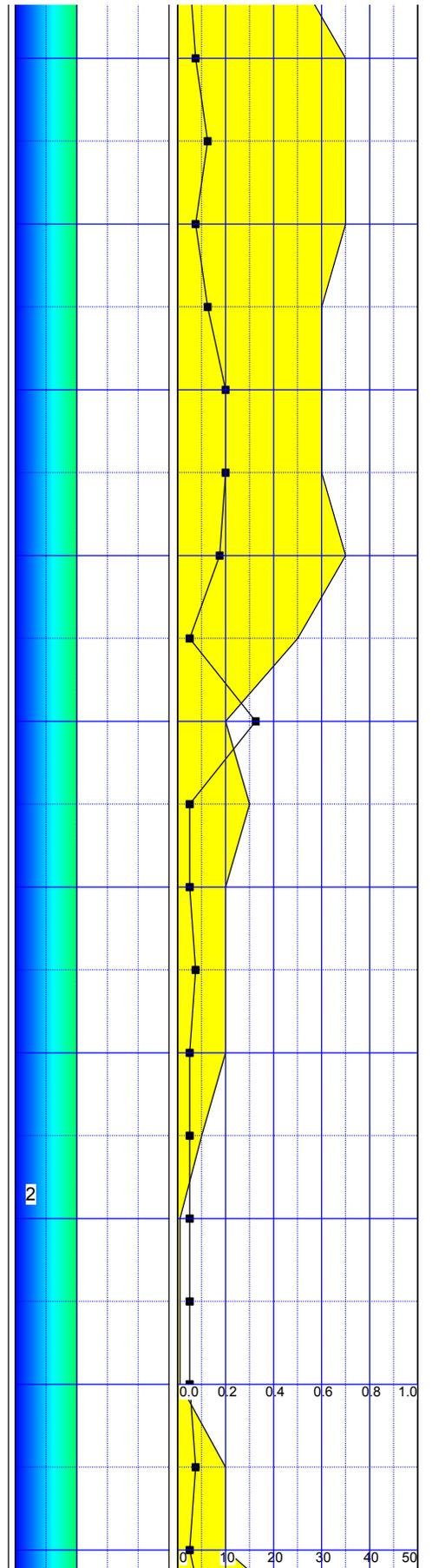
into diktytaxitic section from 674.2 feet to 678.2 feet. Vesicles resume from 677.5 feet through the end of the interval, with smaller, higher volume vesicles at base. COMPOSITION: 20% submillimeter to 5mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium dark gray aphanitic groundmass. XENOLITHS/AUTOLITHS: None observed. ALTERATION: Very pale orange 10YR 8/2 coating at top and throughout fractures in the section. Light brownish gray 5YR 6/1 at top of interval. Grayish fre 5R 4/2 at 671.2 feet. Moderate reddish brown 10R 4/6 at 680.6 feet.

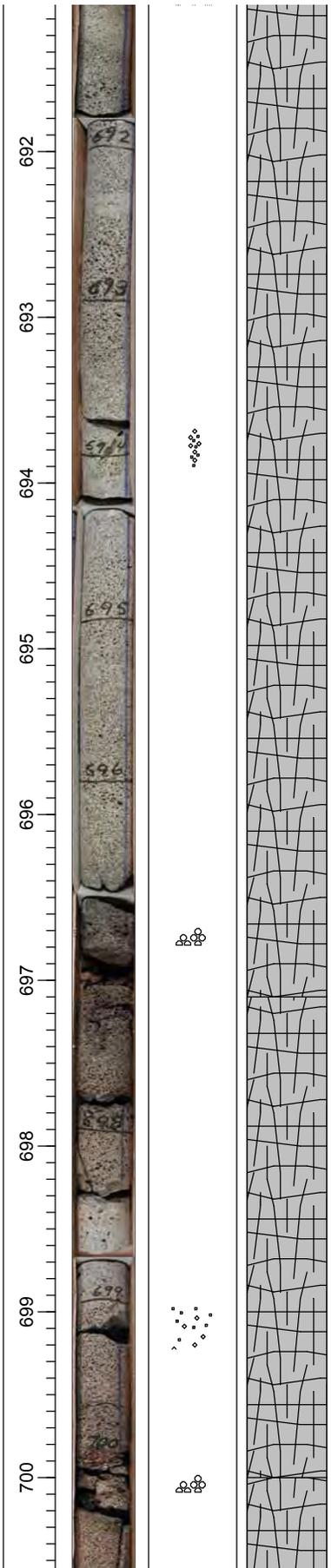
BASALT:
 COLOR: Medium dark gray N4 to medium gray N5 through top and central portions of interval, dark gray N3 in bottom portion.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles rounded to subrounded. Large percentage of smaller vesicles grading into larger sizes to 674.2 feet and shrinkin size from 674.2





feet to 685.7 feet. Massive portions of interval from 685.7 feet to 686.5 feet and from 688.5 feet to 690.5 feet. Spatter present at base of interval.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral accicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% dark gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Dusky red 5R 3/4 at top of interval. Moderate reddish brown 10R 4/6 at 681.1 feet; moderate red 5R 5/4 from top of section through 682.1 feet. Grayish red 5R 4/2 spots on fracture surface at 687.0 feet. Grayish orange 10YR 7/4 fracture coatings throughout interval. Moderate red 5R 5/4 along vesicle planes at 688.4 feet. Moderate red 5R 4/6 to moderate reddish brown 10R 4/6 at base of interval.

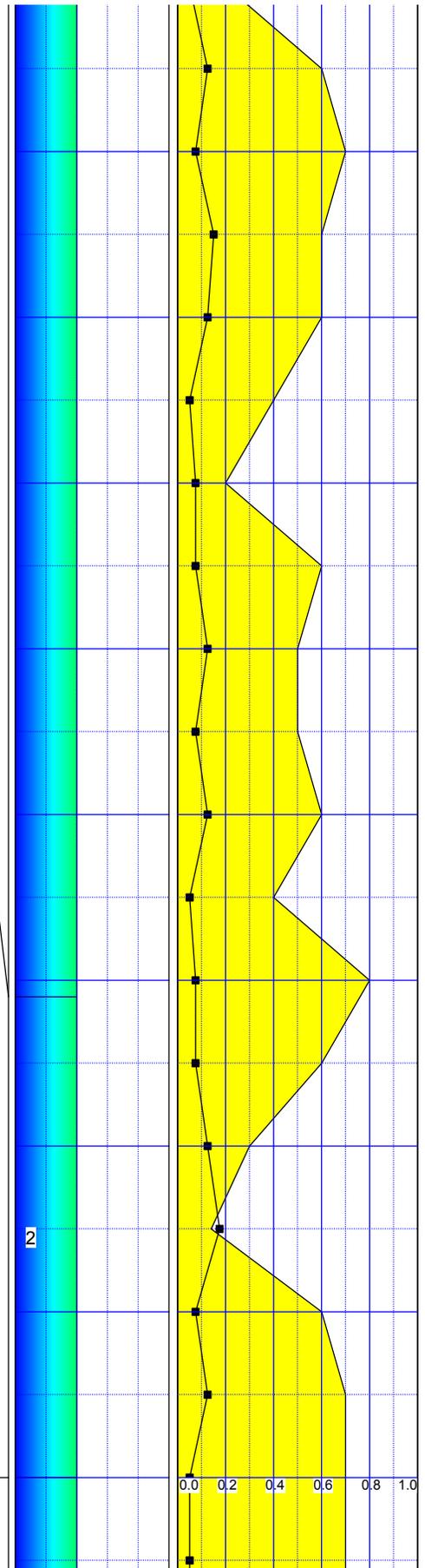


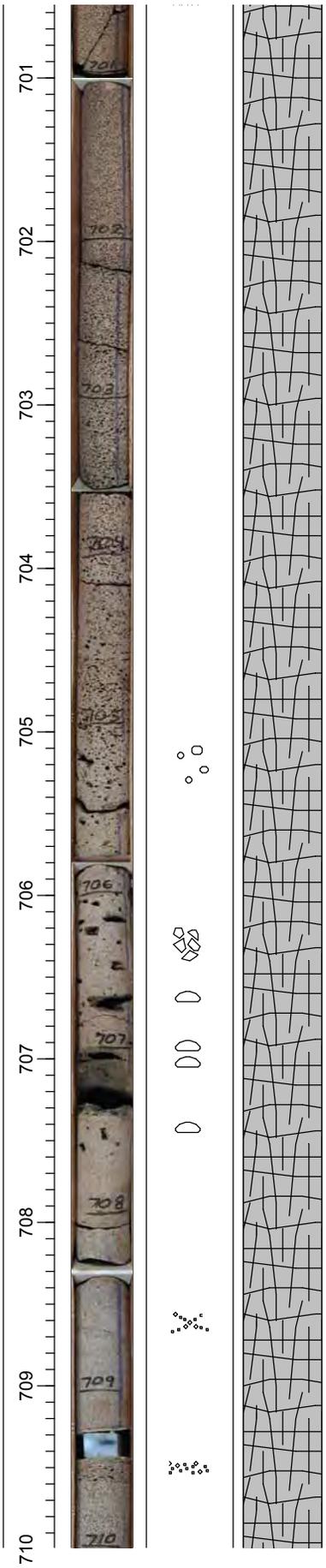


BASALT:
 COLOR: Dark gray N3 at top of interval and at fracture 697.8 feet. Medium dark gray N4 through remainder of interval. Very pale orange 10YR 8/2 sediment fracture fillings throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Vesicles subrounded to rounded. High concentration of small vesicles grading into massive zone from 698.4 feet to 699.1 feet. High frequency of small vesicles resumes to end of interval. Scoriaceous spatter at top of interval and spatter at bottom of interval.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% dark gray to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate red 5R 4/6 and dusky red 5R 3/4 at top of interval. Moderate red 5R 4/6 to moderate orangish brown 10R 4/6 at 700.0 feet.

Interesting color at 700.0

BASALT:
 COLOR: Grayish red 5R 4/2 at top of interval. Medium dark gray N4 in central portion of interval, grading into medium gray N5 through remainder. Very pale orange





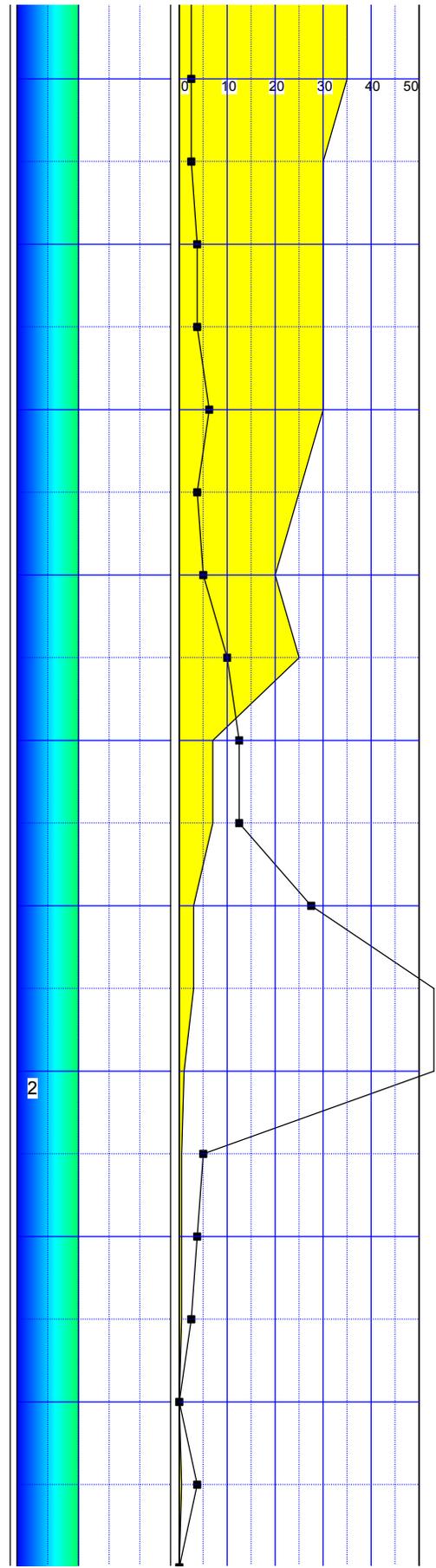
10YR 8/2 sediment fracture coating at 702.8 feet, very pale orange 10YR 8/2 sediment fracture filling at 703.6 feet. Yellowish gray 5Y 8/1 sediment fracture filling at 709.2 feet.

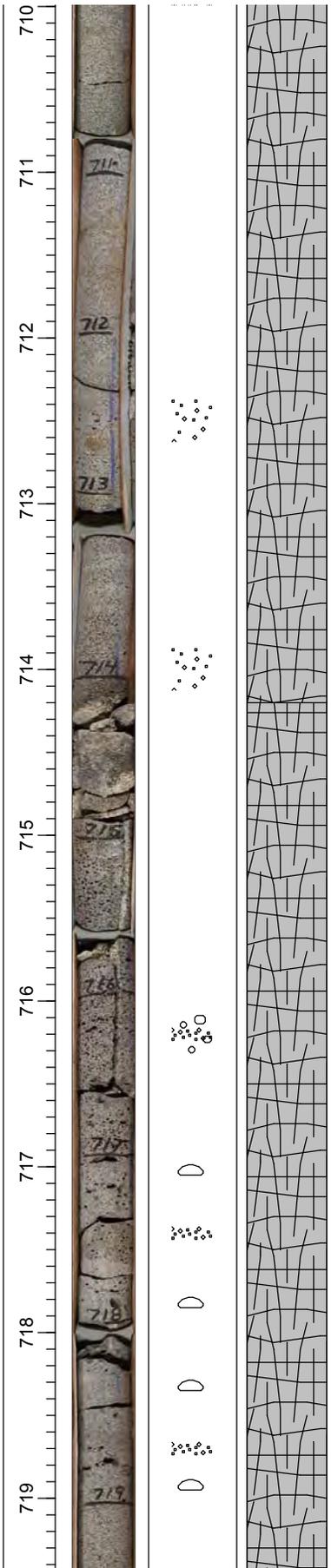
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. High volume of smaller vesicles from top of interval through 702.1 feet. Vesicles rounded to irregular; size and frequency increase into massive zone from 705.5 feet to 709.6 feet. Diktytaxitic from 709.6 feet through end of interval.

COMPOSITION: 20% submillimeter to 4mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% grayish red to medium dark gray aphanitic groundmass.

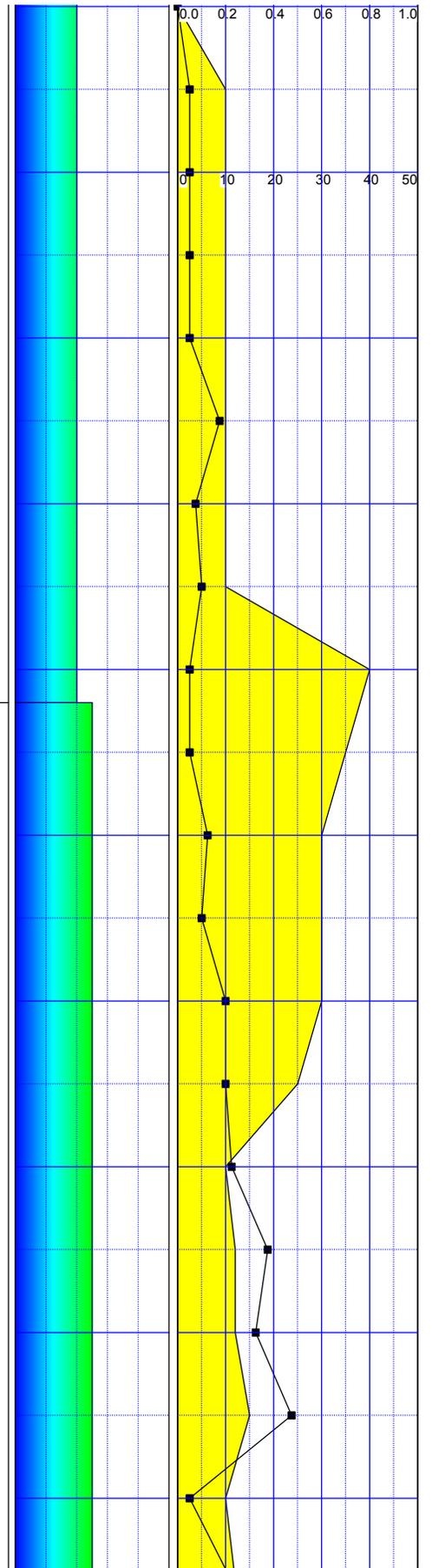
XENOLITHS/AUTOLITHS: Autolith observed at 706.3 feet.

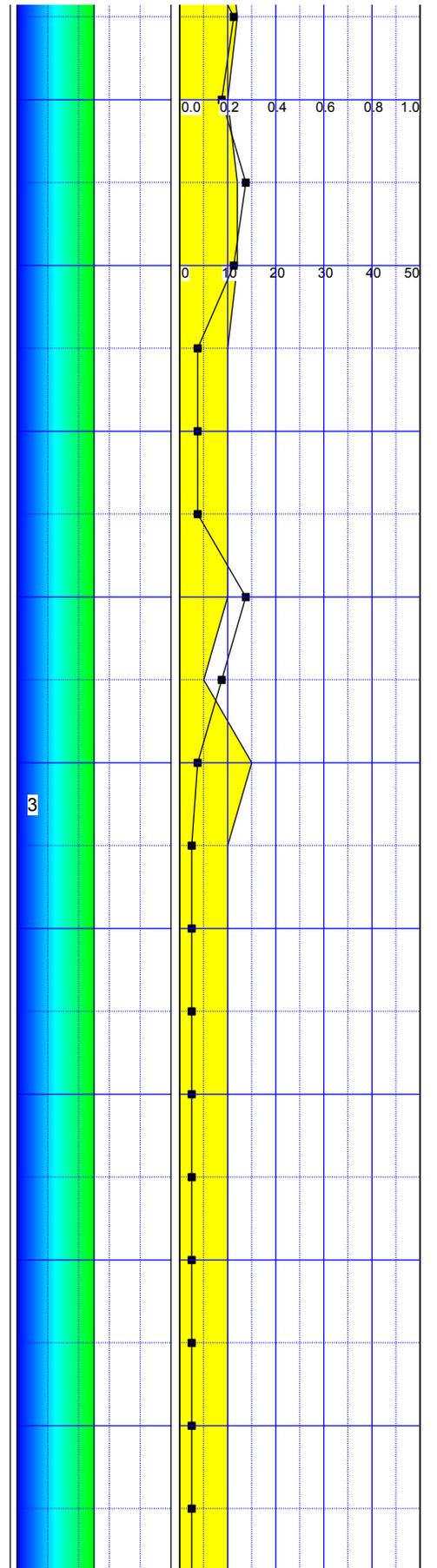
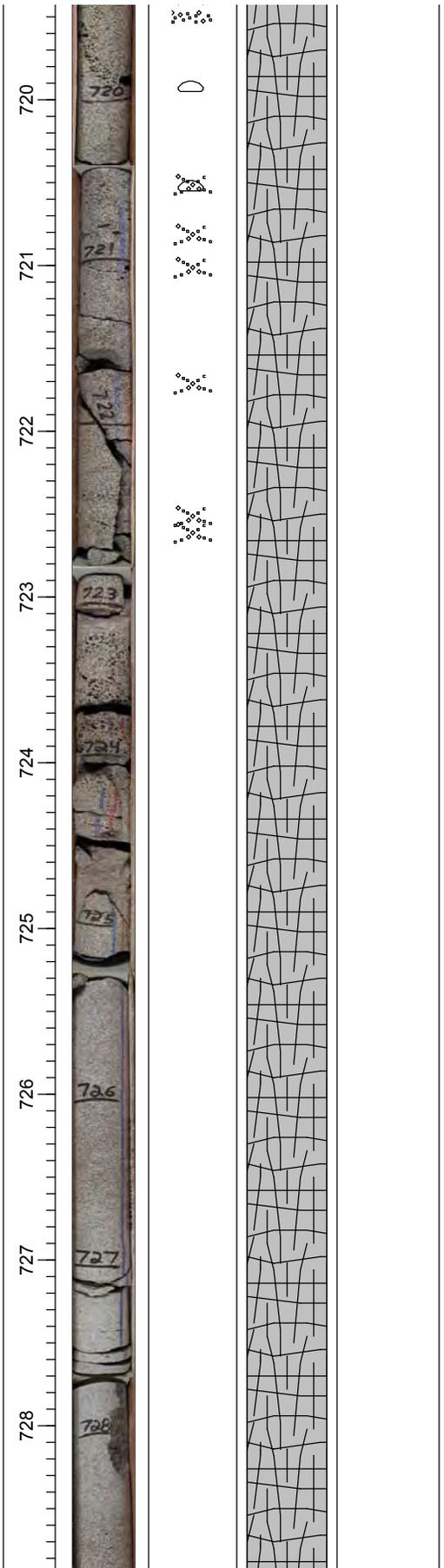
ALTERATION: Pervasive alteration of groundmass.

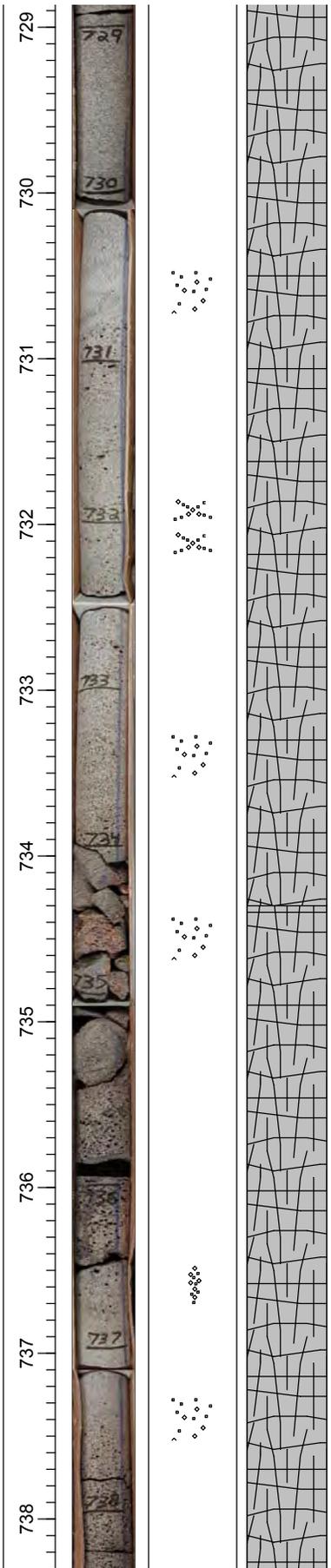




BASALT:
COLOR: Medium light gray N throughout interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Subrounded to rounded vesicles. High frequency of small vesicles at top grading into larger vesicles and diktytaxitic texture from 716.7 to 734.3 feet. Numerous vesicle bands. planes and columns throughout interval; spatter at top and base of interval.
COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic globs of green olivine phenocrysts. 50% medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 at bottom of section.

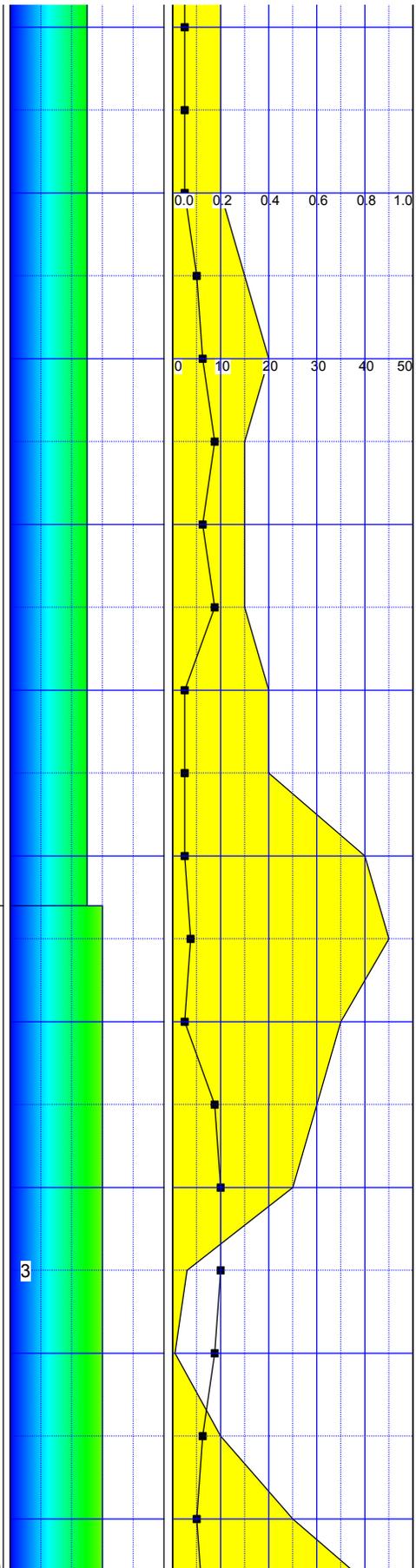


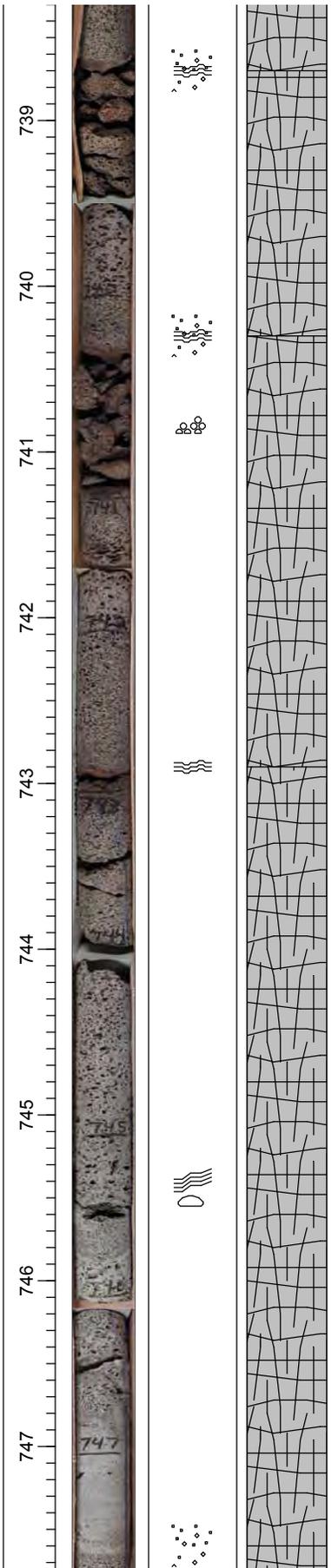




BASALT:
 COLOR: Medium gray N5 throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Rounded to subrounded vesicles. Large concentration of small vesicles from top through 736.2 feet, followed by larger vesicles grading into diktytaxitic texture to 736.9 feet. Massive section of flow from 736.9 feet through 737.3. Diktytaxitic texture from 737.8 to 738.0 feet. Vesicles resume to end. Glassy spatter at top of interval and flow mold at base.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 at top of interval. Moderate red 5R 4/6 from 734.3 feet through 735.4 feet and at bottom of section

BASALT:
 COLOR: Grayish red 10R 4/2 grading in to medium light gray N through rest of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Vesicles subrounded to

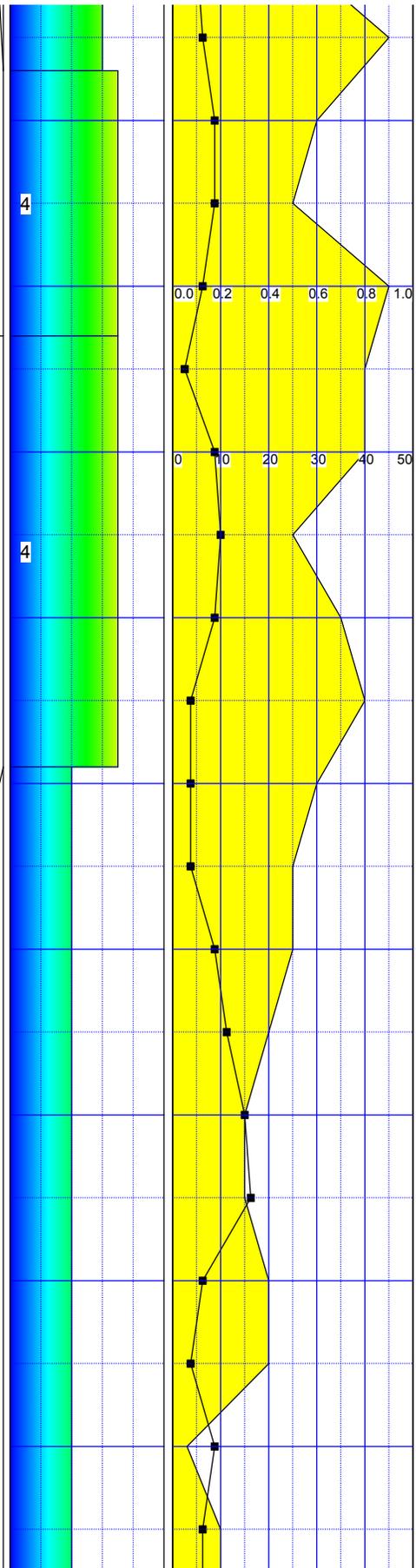


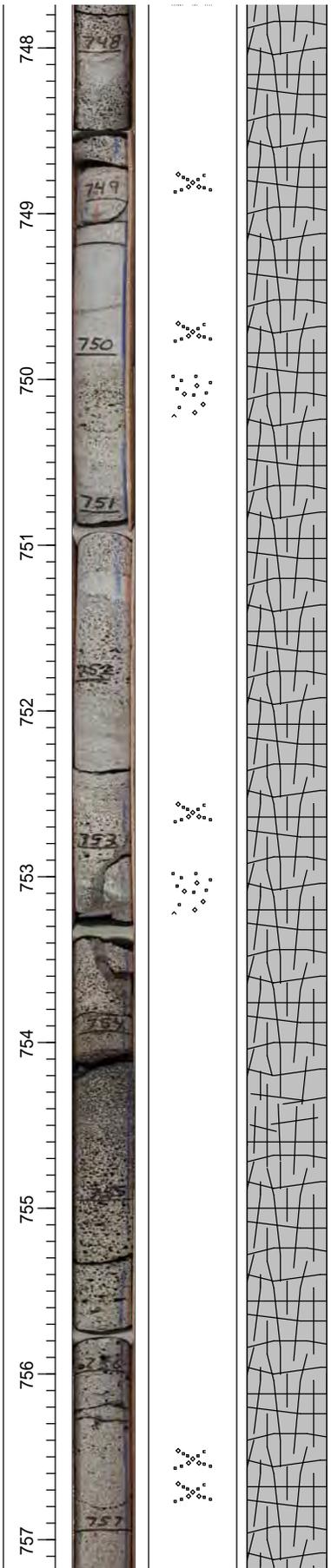


rounded. Vesicle size increases and frequency decreases through center of interval, vesicles shrink in size and increase in frequency at top and bottom of section. Glassy, spatter rubble at top, flow mold at base of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% grayish red to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish orange 10R 6/6 at top and bottom of section.

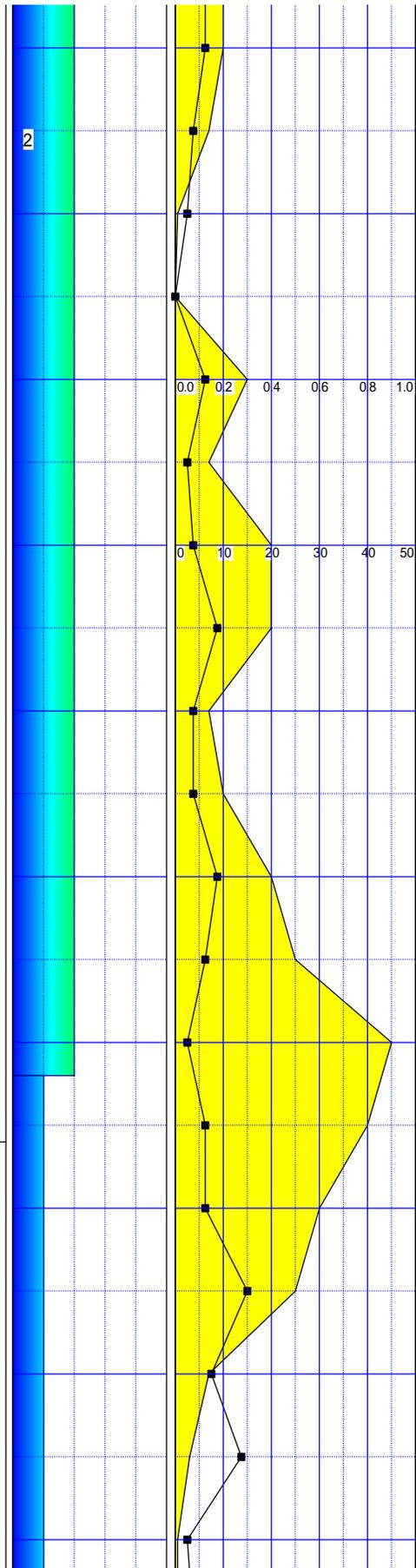
BASALT:
 COLOR: Grayish red 10R 4/2 at top, grading into medium light gray N6 through remainder of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Irregular to rounded vesicles increase in size and decrease in concentration through center of interval. Glassy spatter at top of interval, shelly pahoehoe at base.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% grayish red to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed
 ALTERATION: Moderate red 5R 5/4 at top and bottom of interval, grayish orange pink 10R 8/2 fracture surface coating at 941.4 feet. Altered groundmass, various olivine phenocrysts contain red rims.

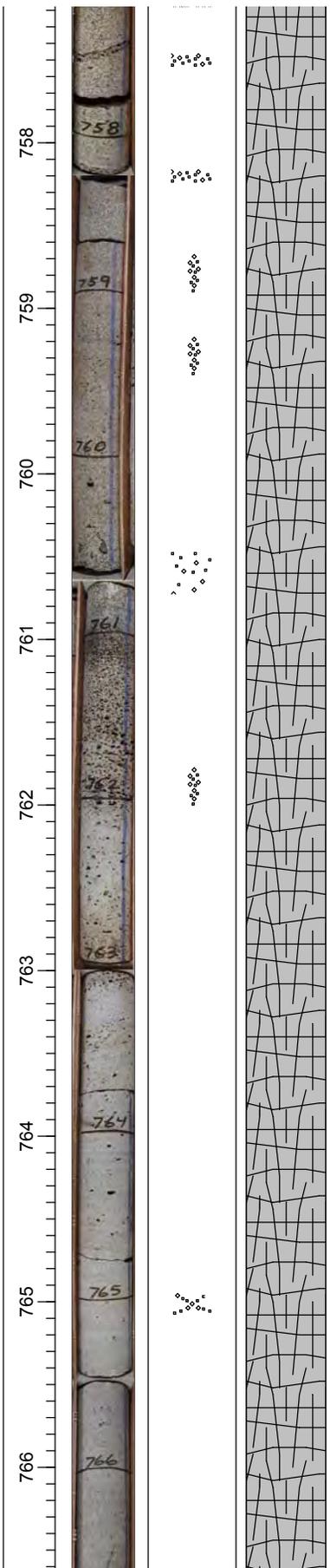
BASALT:
 COLOR: Medium gray N5 throughout interval. Very pale orange 10YR 8/2 sediment coatings on fracture surface from 746.5 feet through 747.0 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Subrounded to rounded vesicles. High concentration of small-sized vesicles interspersed with larger vesicles and vesicle inflation(?) features throughout interval. Massive portion of interval 746.8 feet through 747.6 feet and from 749.2 to 750.1 feet. Diktytaxitic texture with sporadic vesiculation present from 750.1 feet through the end of the interval. Glassy spatter at top and bottom of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular with plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate red 5R 5/4 at top of interval, pale brown 5YR 5/2 coating on fracture surface at 752.5 feet. Blackish red 5R 2/2 at bottom of interval.



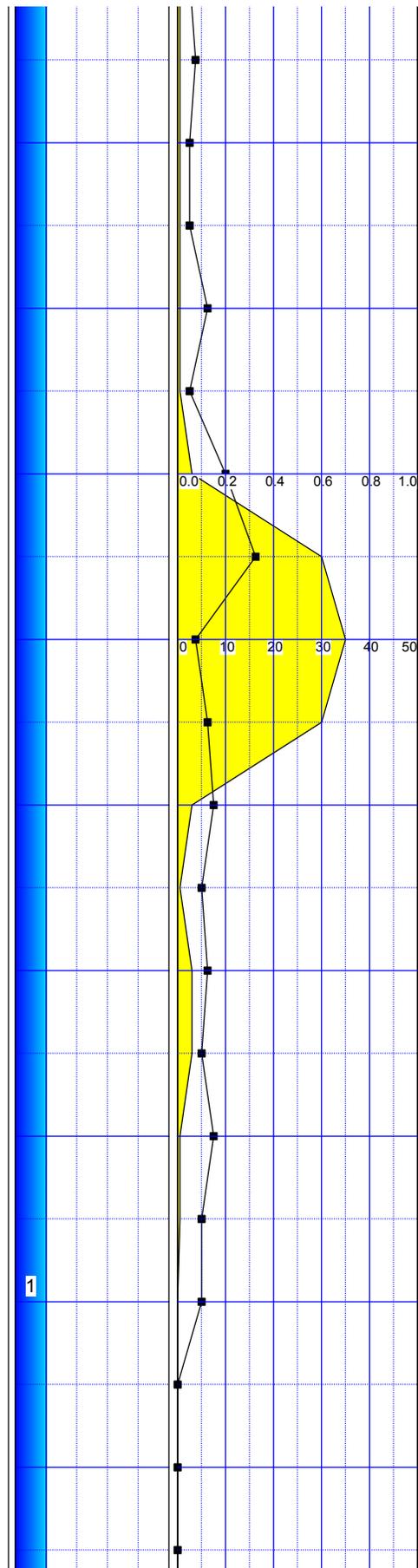


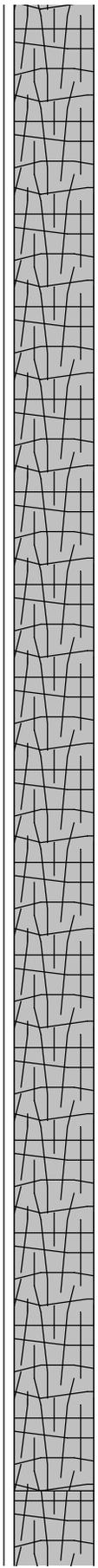
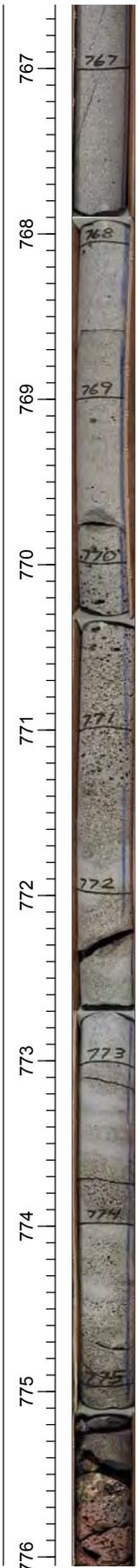
BASALT:
COLOR: Medium dark gray N4 at top of interval, medium gray N5 through center, medium light gray N6 to end of interval. Very pale orange 10YR 8/2 sediment coatings on fracture surfaces and as vesicle fillings throughout interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Subrounded to rounded vesicles with a high volume of smaller vesicles grading into larger, less frequent vesicles through center of interval. Diktytaxitic texture from 755.6 feet to 760.4 feet with vesicle planes, columns, and bands common throughout, and from 766.9 feet through 770.0 feet. Massive section from 762.0 feet through 766.9 feet containing sporadic vesicle inflation features(?). Vesicles with minor diktytaxitic texture from 766.9 feet through end of interval. Flow mold present at base of section.



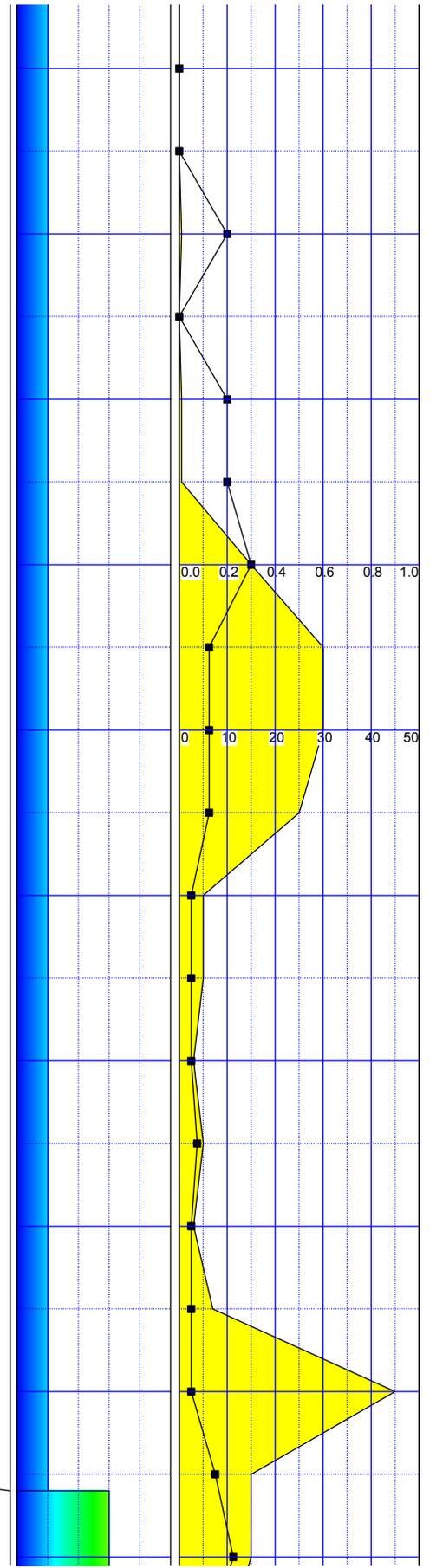


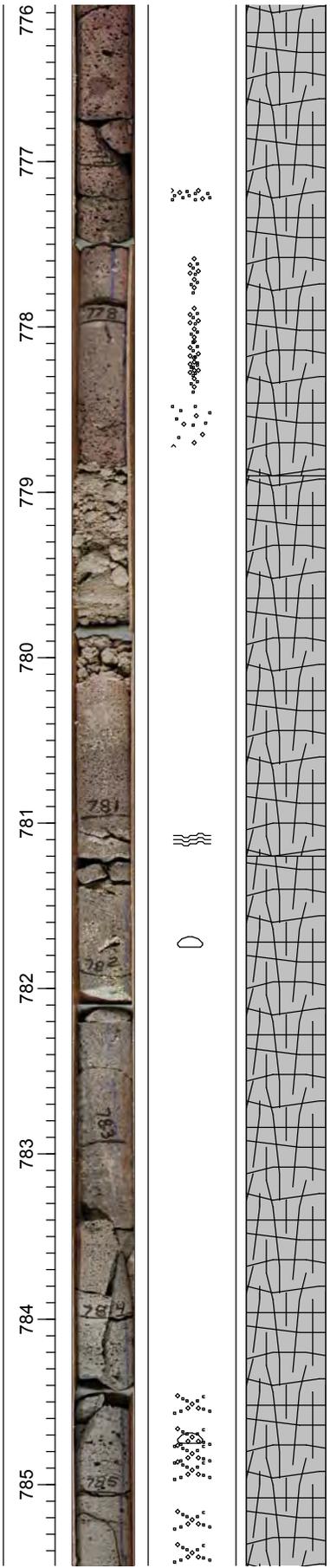
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Blackish red 5R 2/2 at top of interval and on fracture surface at 774.8 feet. Light brownish gray 5YR 6/1 on fracture surface at 764.8 feet. Blackish red 5R 2/2 from 754.2 feet to 775.6 feet.





BASALT:
 COLOR: Pale reddish brown 10R 5/4 at top of
 interval, grayish red 5R 4/2 through end.
 Medium dark gray N4 glassy surface on

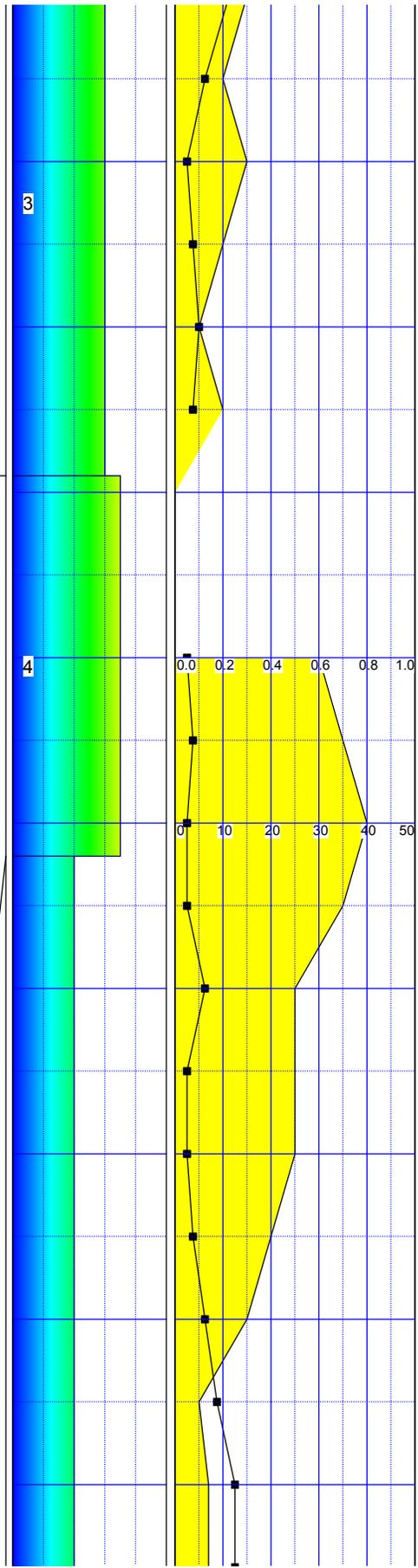


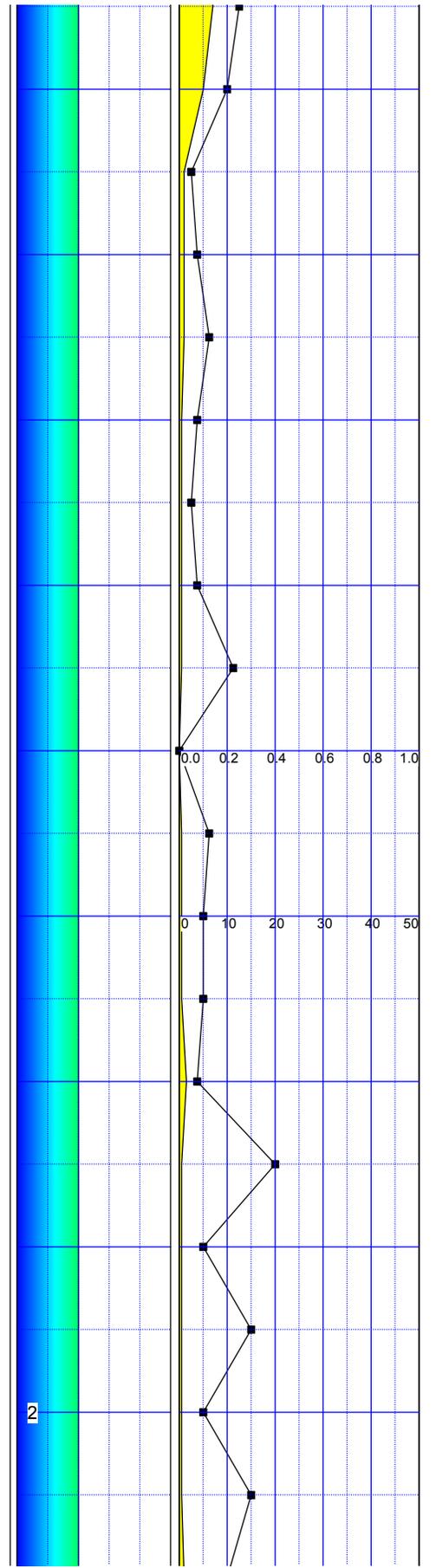
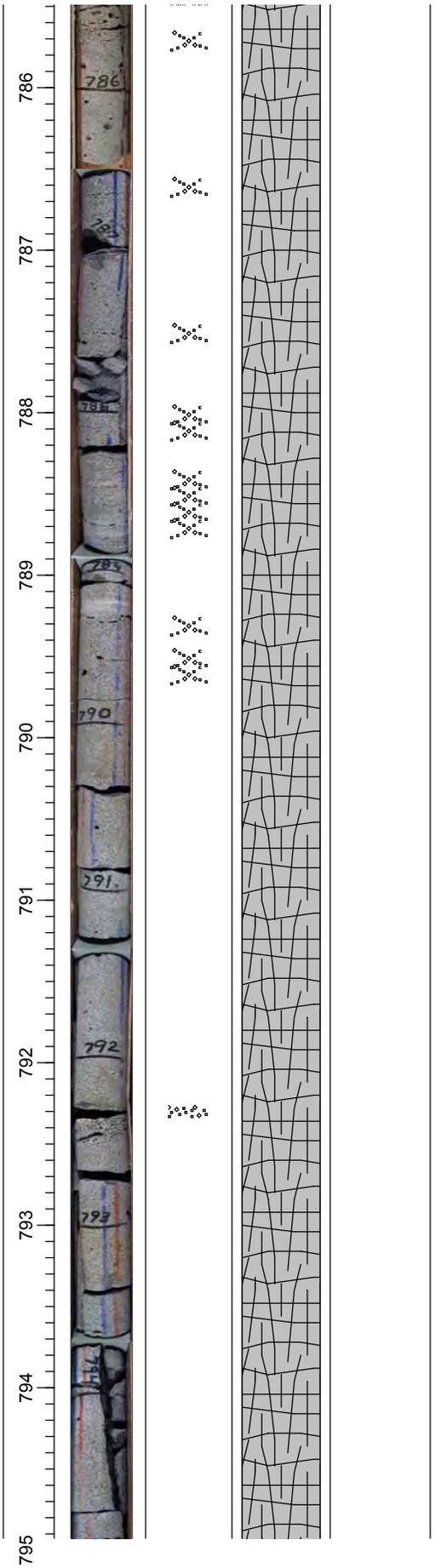


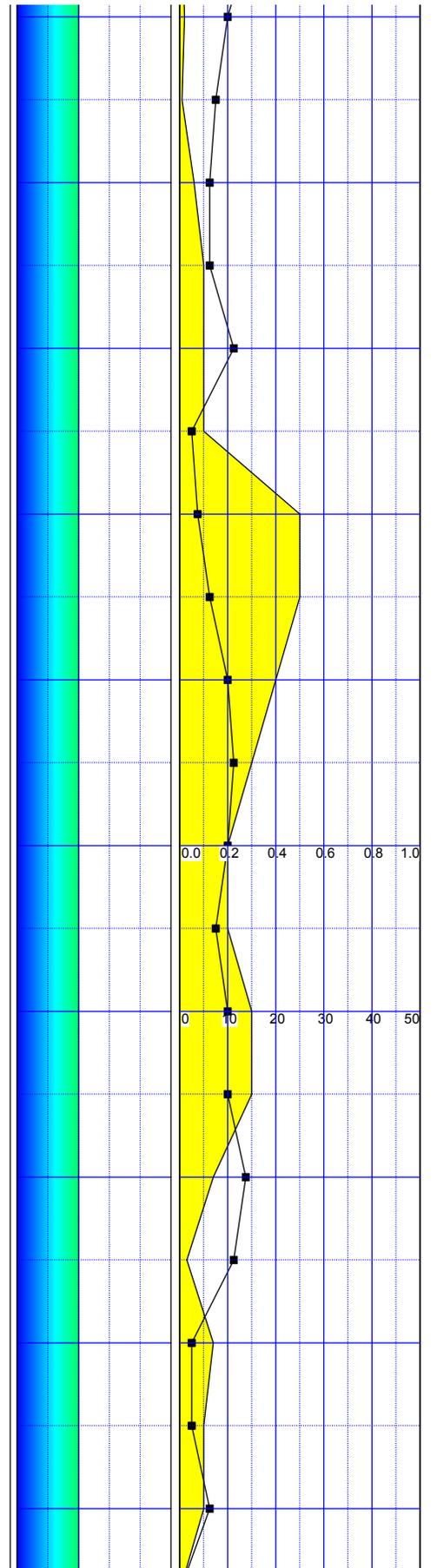
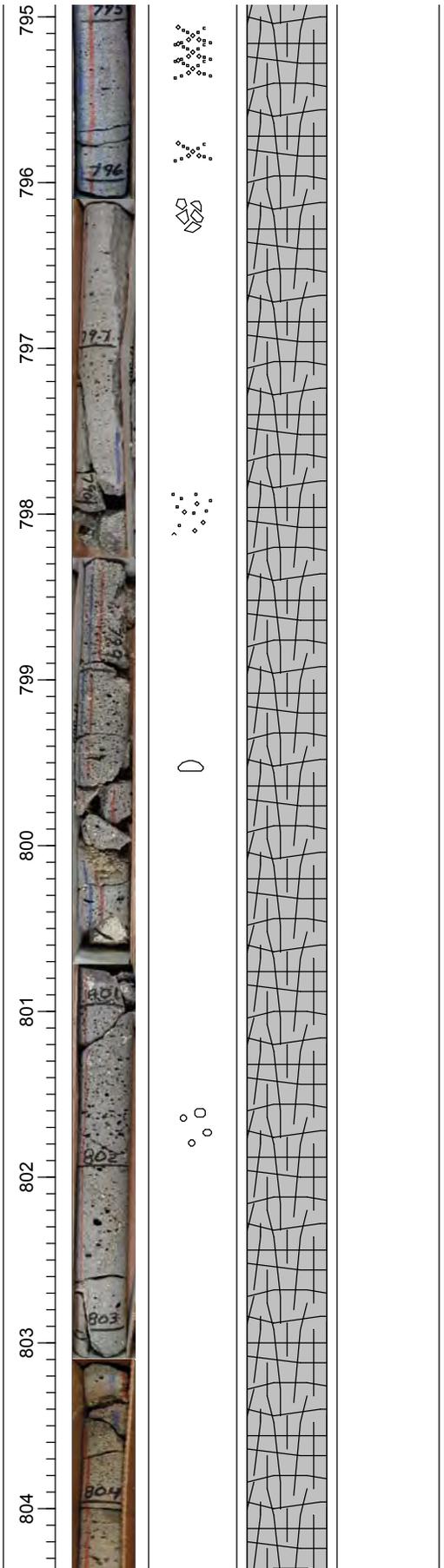
fracture at 778.6 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Irregular mix of subrounded to rounded, small to large-sized vesicles uniformly distributed at top of interval, grading into diktytaxitic texture from 777.9 feet to 778.6 feet. Vesicles resume through end of interval. Flow mold at top and base of interval.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocryst; 10% submillimeter euhedral green olivine phenocrysts; 50% pale reddish brown to grayish red aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Dark yellowish brown 10YR 4/2 coating at top of interval, light brown 5YR 5/6 at bottom. Altered groundmass. Select olivine phenocrysts contain red alteration rims.

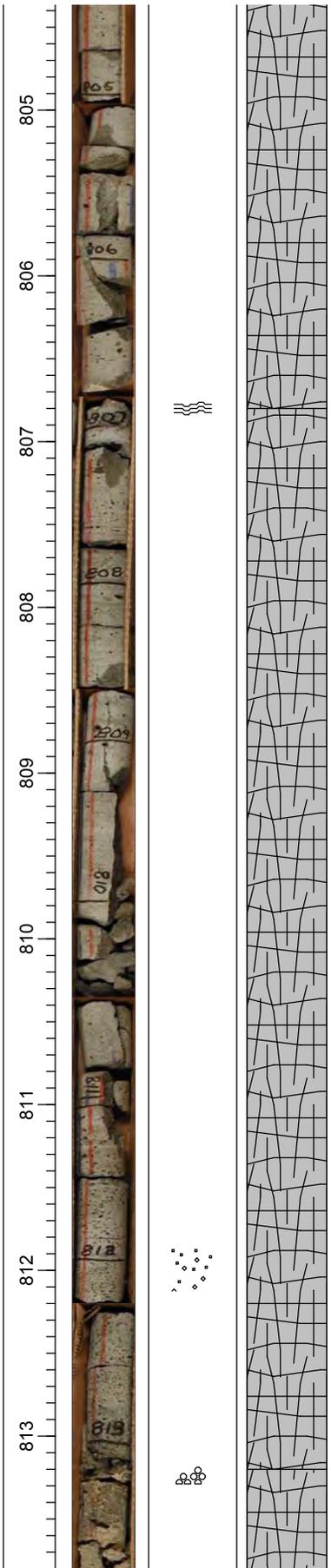
BASALT:
 COLOR: Very pale orange 10YR 8/2 sediment coated basalt from top of interval through 780.1 feet and minor coating at bottom portion of interval. Grayish red 5R 4/2 from 780.1 feet through bottom of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Sediment covered basalt rubble from 778.9 feet through 780.1 feet. From 780.1 feet through the end of interval, subrounded to rounded vesicles uniformly sized and distributed. Flow mold at top and base of interval.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% grayish red aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Extensive alteration of olivine, groundmass alteration also observed.

BASALT:
 COLOR: Grayish red 5R 4/2 with very pale orange 10YR 8/2 vesicle and fracture coatings throughout interval. Medium gray N5 present through the middle and end of section.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. High concentration of small-sized, rounded to subrounded vesicles grading into diktytaxitic texture from 784.7 feet to 796.2 feet with interspersed vesicle planes and bands. Massive texture with minor vesiculation present from 796.2 feet through 801.5 feet, grades into vesicles and resumes massive texture from 803.9 feet to 806.8 feet. Flow mold present at top of interval.
 COMPOSITION: 25% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 25% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 40% grayish red to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autolith at 796.2 feet.
 ALTERATION: Moderate brown 5YR 4/4 vesicle planes at 784.5 feet, 785.2 feet, and at 787.0 feet.



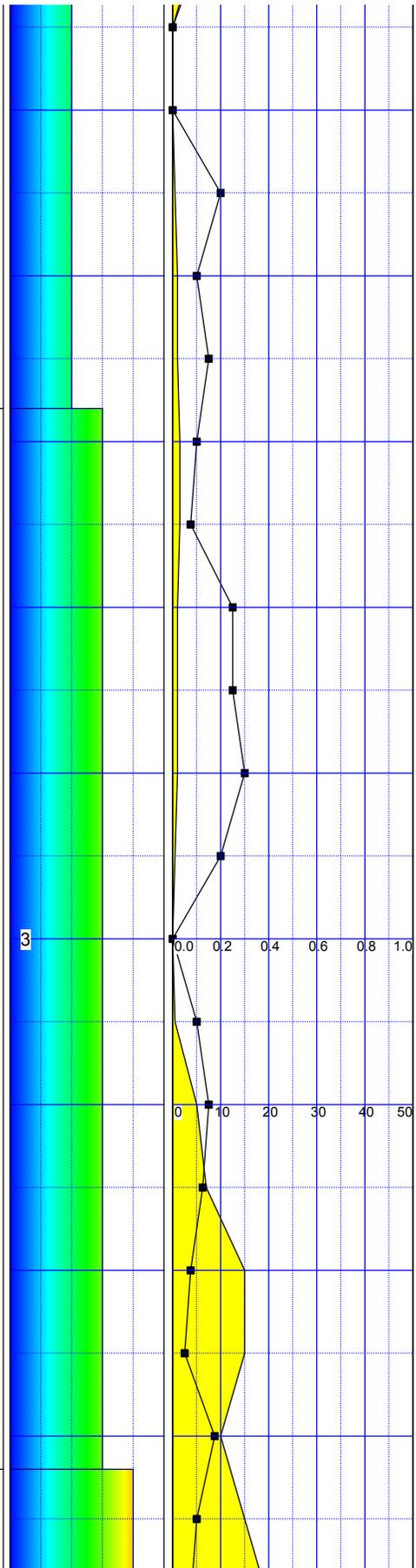


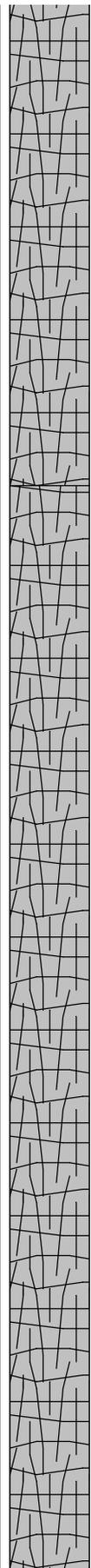




BASALT:
COLOR: Medium gray N5 at top of interval grading into medium light gray N6. Very pale orange 10YR 8/2 sediment coatings at top and bottom of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Massive with low percentage of small vesicles from 806.8 feet through 811.0 feet. Uniform distribution and size of rounded to irregular vesicles from 811.0 feet through center, vesicle frequency increases and size decreases at base of interval.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Dark yellowish orange 10YR 6/6 and light brown 5YR 5/6 coatings on fracture surface at 807.8 feet. Altered glassy groundmass and red rims present on select olivine phenocrysts.

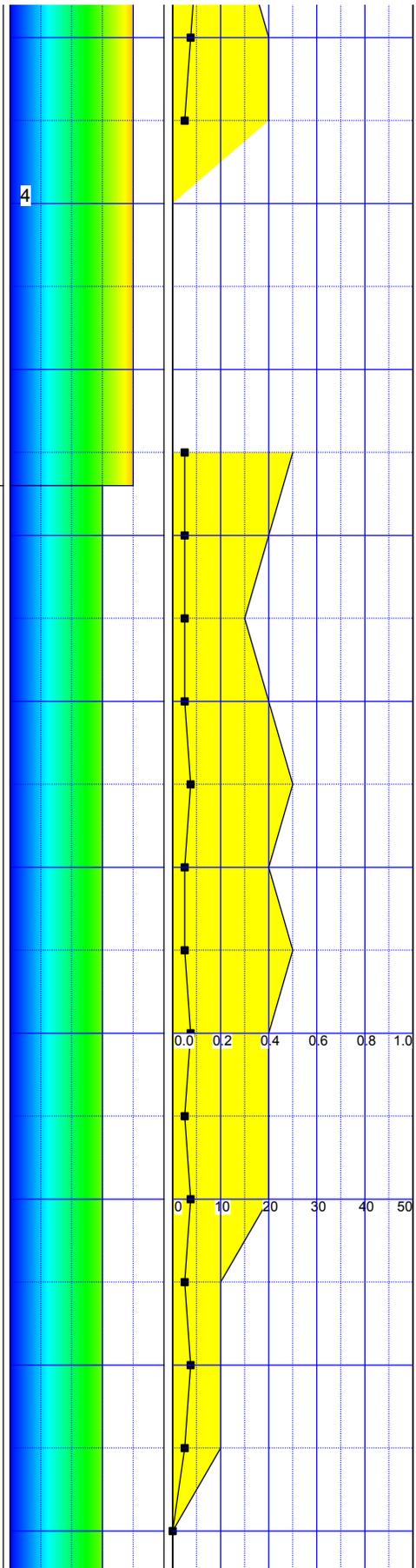
BASALT:
COLOR: Medium gray N5 basalt throughout interval. Very pale orange 10YR 8/2 sediment-coated basalt present through top portion of interval, and in vesicles and

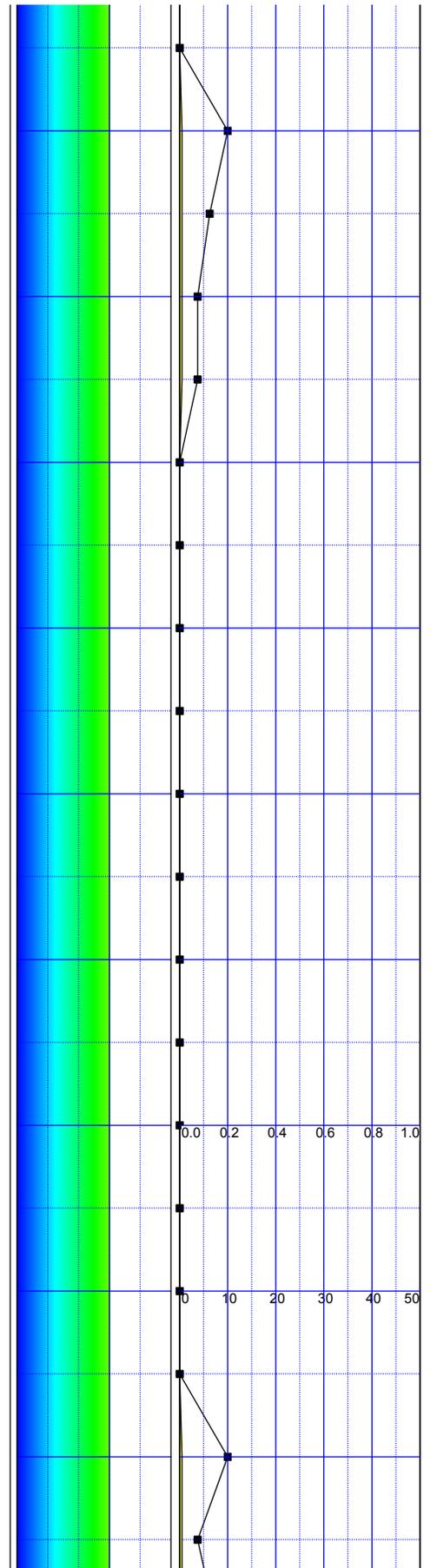
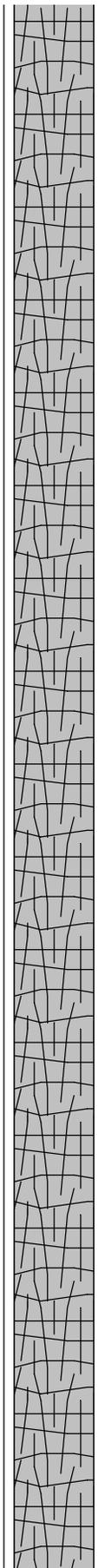
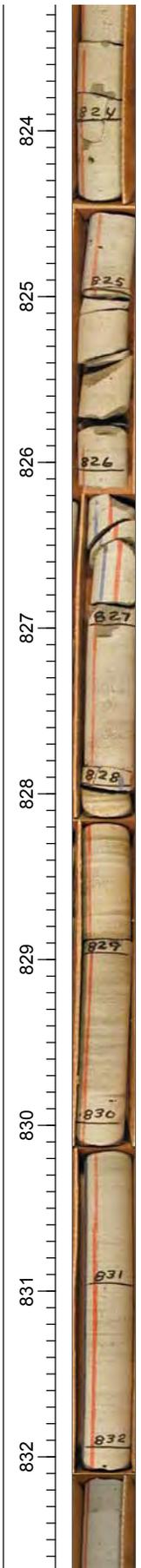


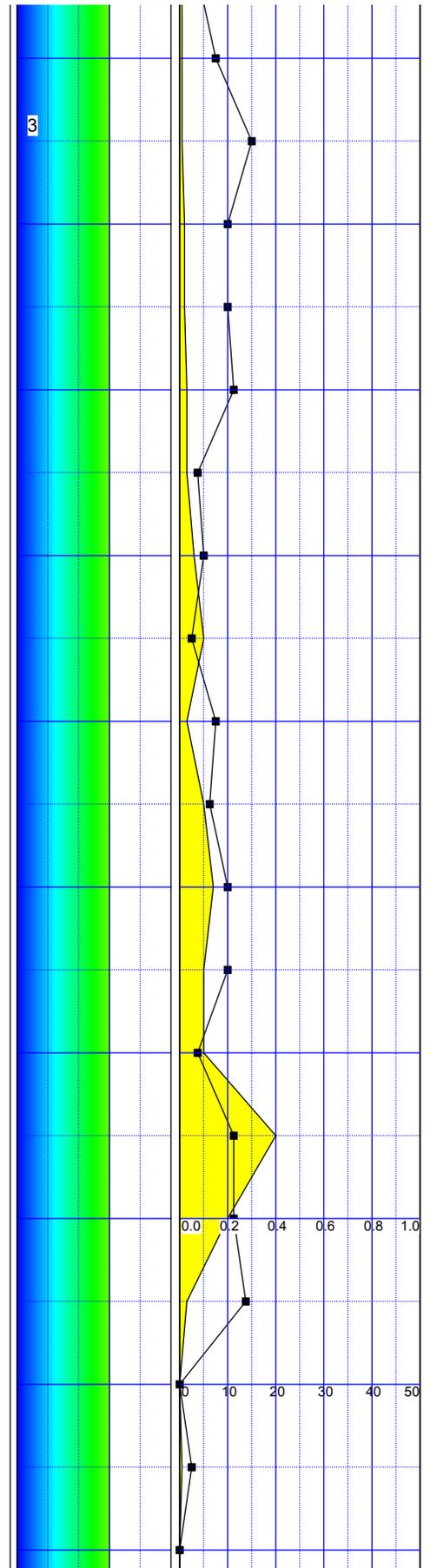
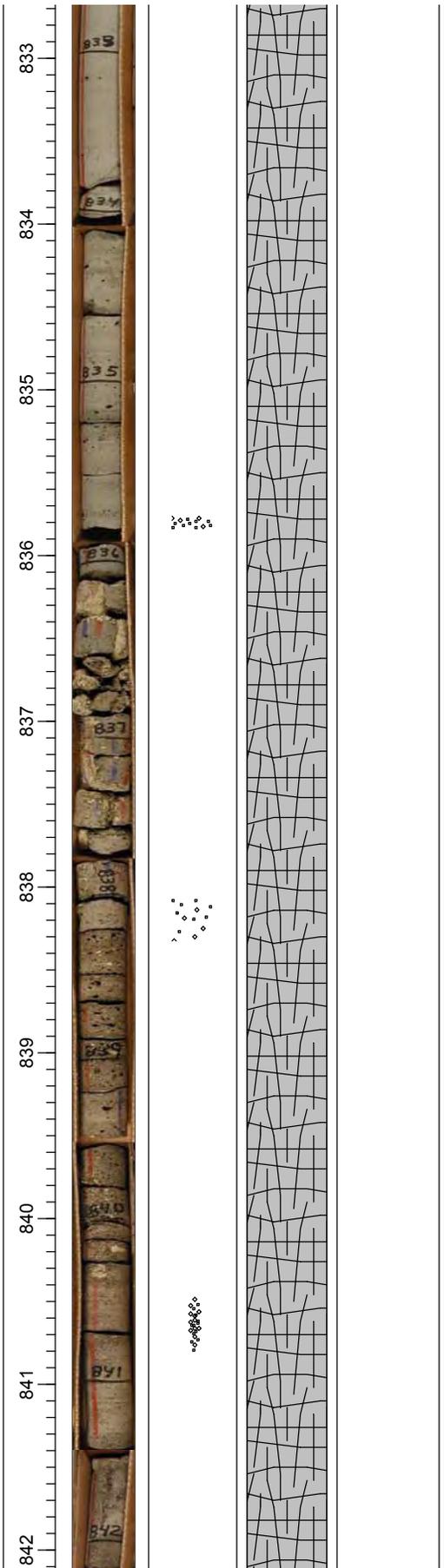


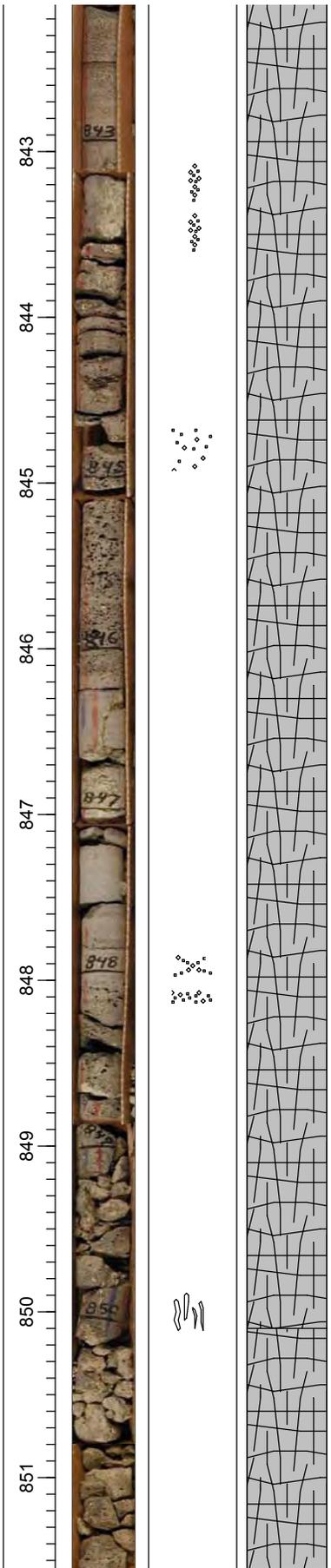
fractures in remainder. Pale yellowish brown 10YR 6/2 and pale brown 5YR 5/2 sediment covered basalt rubble at end of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Majority of interval sediment-covered basalt rubble. Glassy spatter with large vesicles at top of interval, grading into smaller, uniformly distributed rounded to subrounded vesicles from 814.0 feet through remainder of interval.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pervasive alteration of plagioclase phenocrysts and olivine. Glassy groundmass.

BASALT:
 COLOR: Medium dark gray N4 to medium gray N5 in vesicular portions of flow, Medium light gray N6 in massive portions. Very pale orange 10YR 8/2 sediment coatings on fractures and in vesicles throughout interval. Light brownish gray 5YR 6/1 from 837.8 feet to 844.8 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Small, high frequency, rounded to irregular vesicles grading into massive basalt with inflation (?) features interspersed at 819.0 feet and continuing through 836.6 feet. Large vesicles present from 836.6 feet to 839.2 feet, grading into diktytaxitic texture from 839.2 feet to 839.5 feet and from 840.7 feet to 843.2 feet. Massive texture resumes from 843.2 feet to 843.6 feet and from 847.2 feet to 848.1 feet. Vesicle size and distribution increases to 846.2 feet. Infrequent vesiculation through end of interval. Dogtooth spar amygdule 3.0 cm in longest dimension at 840.3 feet.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light olive gray 5Y 5/2 gracture coating at 833.9 feet.

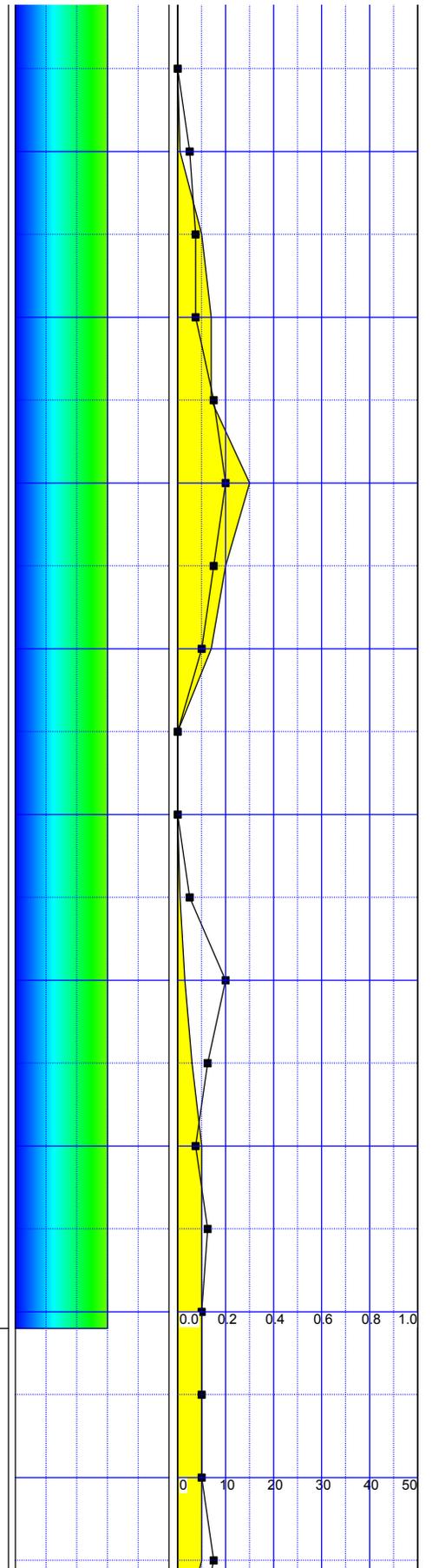


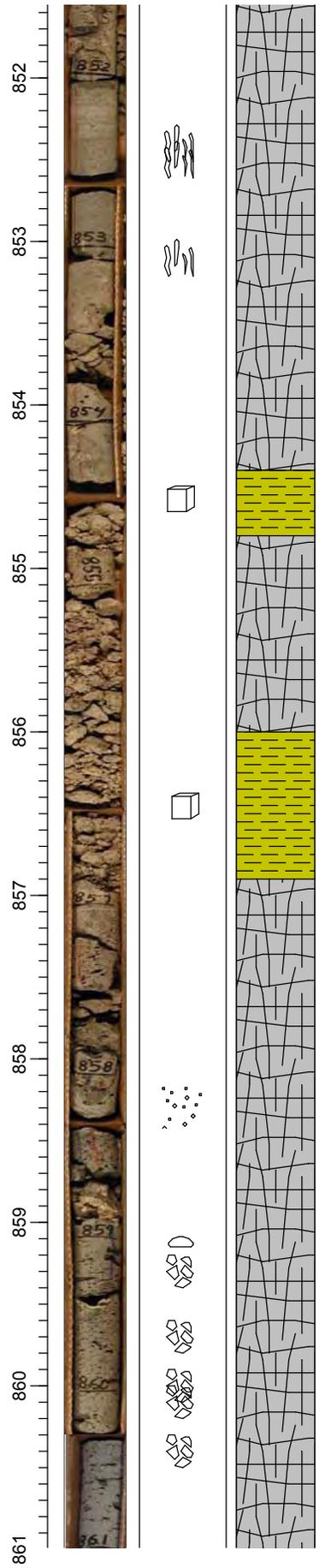






BASALT:
 COLOR: Light gray N7 at top of interval. Medium gray N5 through middle and end of interval. Very pale orange 10YR 8/2 sediment coating in vesicles and on fracture surfaces throughout interval, and on entire core from 845.4 feet to 854.8 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Uniform size and distribution of smaller rounded to irregular vesicles from top of interval to 852.0 feet. Diktytaxitic texture





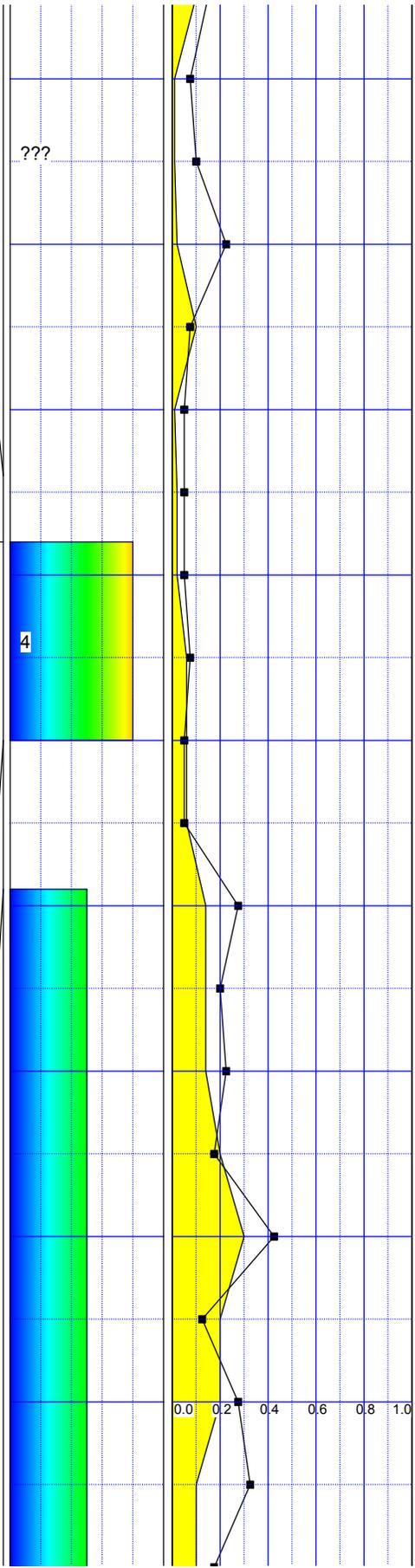
from 852.0 feet to 853.0 feet, grading into massive basalt with minor vesiculation through end of interval.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% light gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Altered olivine phenocryst rims.

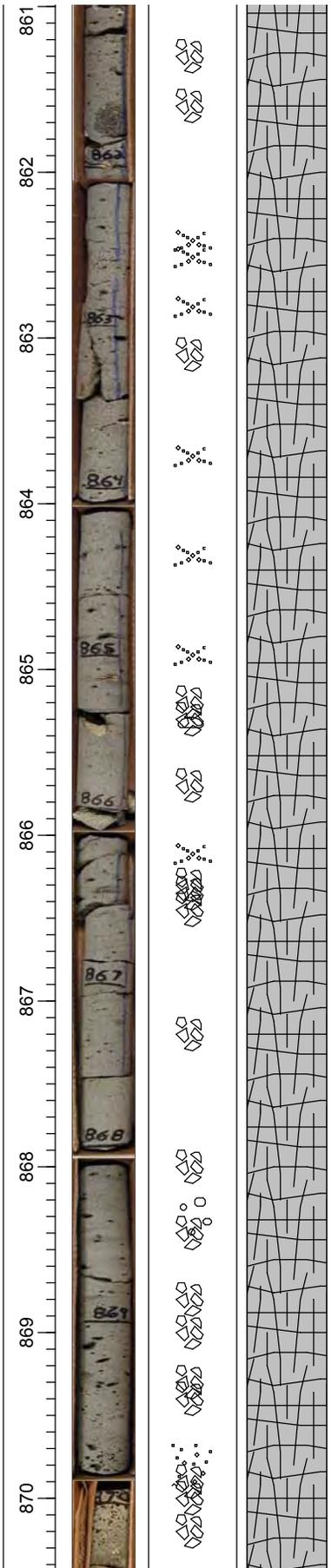
SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Pale yellowish brown 10YR 6/2
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Light brownish gray 5YR 6/1 sediment-coated basalt rubble. Pale yellowish brown 10YR 6/2 coating from 855.0 feet to 856.0 feet.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Small-sized, low concentration of subrounded to rounded vesicles grading into sediment-coated basalt rubble.
 COMPOSITION: Indeterminable with sediment coating.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pale red 5R 6/2 coating at 854.8 feet and 855.0 feet---probably not associated with alteration.

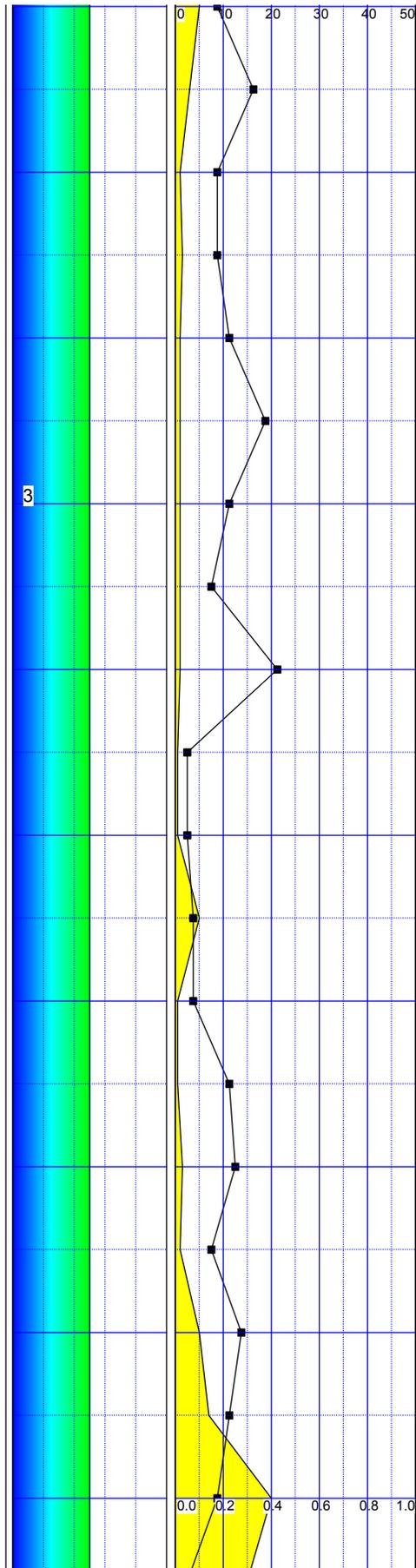
SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Pale yellowish brown 10YR 6/2.
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes
 ROCK: No
 ROOTS/FOSSILS: None noted

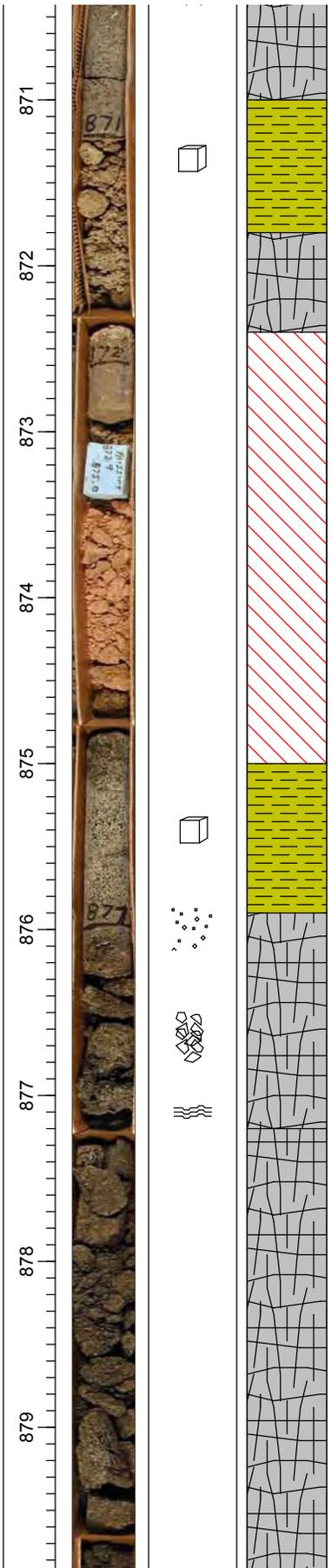
BASALT:
 COLOR: Medium gray N5. Very pale orange 10YR 8/2 sediment coating in vesicles and on fracture surfaces throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Low concentration of small-sized subrounded to rounded vesicles grading into very low concentrations of larger vesicles. Massive texture present from 861.6 feet to 862.1 feet, grading into diktytaxitic texture from 862.1 feet to 868.4 feet. Massive texture resumes from 868.4 feet to 869.7 feet. Vesicles resume 869.7 feet through end of interval. Numerous vesicle planes, bands and autoliths present. Dogtooth spar amygdale 4.0 cm in longest dimension at 863.6 feet.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autoliths present at





859.3 feet, 859.7 feet, 860.0 feet,, 860.1 feet, 860.4 feet, 861.3 feet, 861.6 feet, 863.1 feet, 865.2 feet, 865.3 feet, 865.7 feet, 866.3 feet, 866.35 feet, 866.45 feet, 867.2 feet, 868.0 feet, 868.4 feet, 868.8 feet, 869.0 feet, 869.3 feet, 869.4 feet, 869.9 feet, 870.0 feet, and 870.2 feet.
 ALTERATION: Grayish red 5R 4/2 coatings on fractures at 870.3 feet and 870.5 feet. Red altered olivine phenocryst rims.





SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Pale yellowish brown 10YR 6/2
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes
 ROCK: No
 ROOTS/FOSSILS: None noted

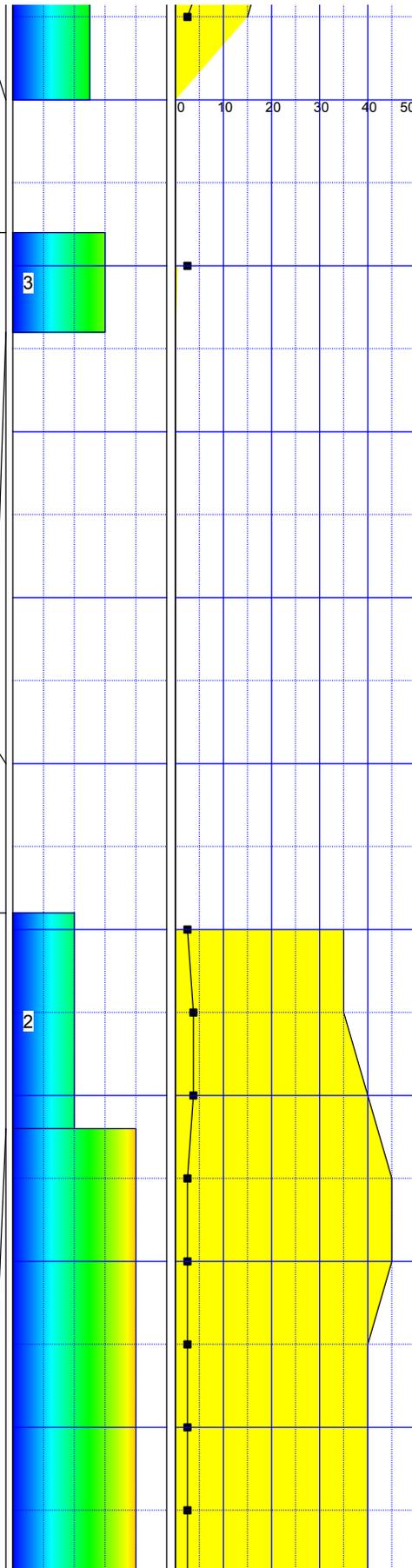
BASALT:
 COLOR: Light brownish gray 5YR 6/1. Grayish orange 10YR 7/4 and very pale orange 10YR 8/2 sediment coated basalt at top and bottom of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Uniformly sized, subrounded to rounded vesicles transition from high frequency distribution at top of interval to low frequency through bottom.
 COMPOSITION: 15% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 5% submillimeter euhedral green olivine phenocrysts; 65% light brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: None

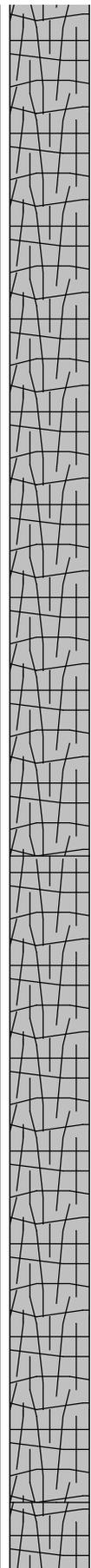
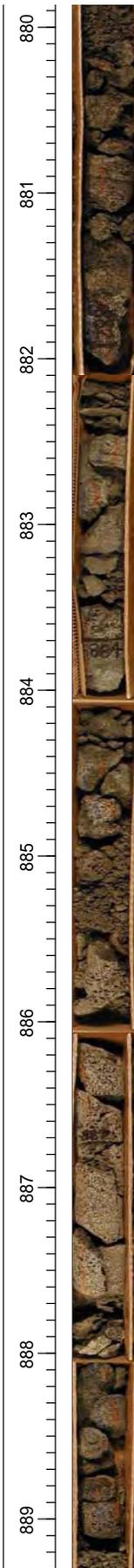
MISSING INTERVAL:
 Interval not recovered

SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Dark yellowish orange 10YR 6/6
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: No
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Medium dark gray N4 throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles uniform in size and distribution from top to middle portion of interval. With no alteration in vesicle size, frequency increases at the base of the interval. Flow feature at 877.1 feet.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autoliths present at 876.6 feet and 876.7 feet.
 ALTERATION: Grayish red 5R 4/2, light brown 5YR 5/6, and white N9 at end of interval.

BASALT:
 COLOR: Medium dark gray N4 through top and center, dark gray N3 at base of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Uniform size and distribution of subrounded to rounded vesicles throughout interval, basalt often rubbly. Spatter at 885.0 feet.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white

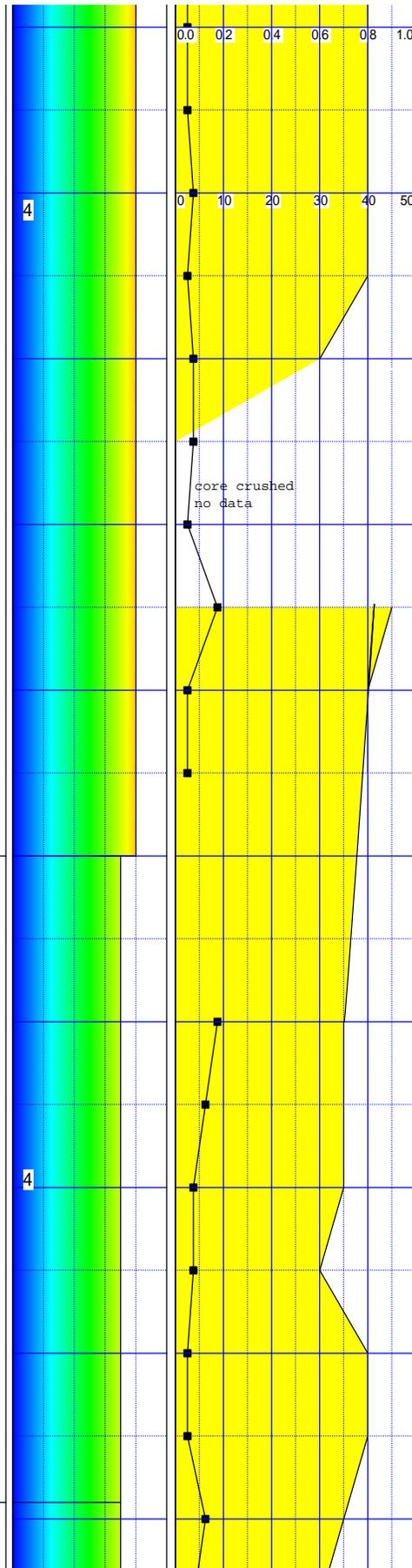


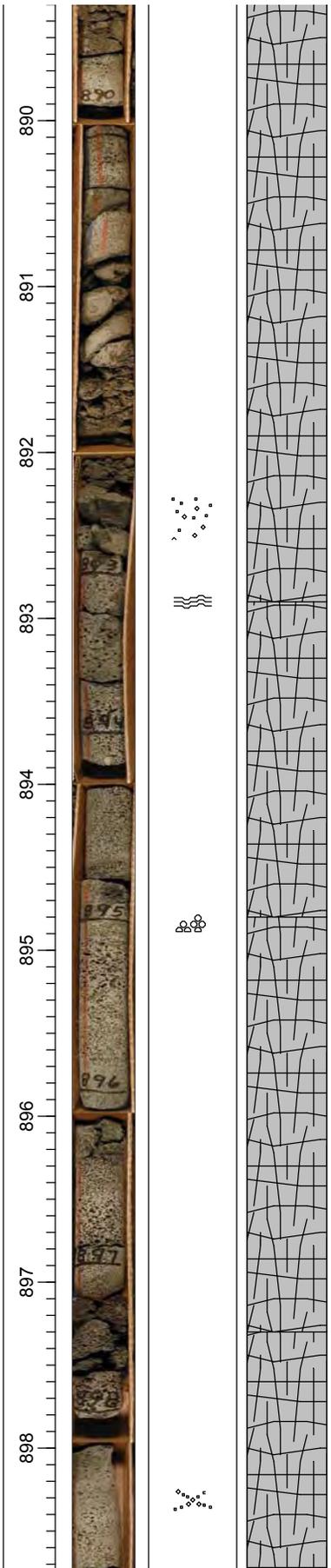


plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium dark gray to dark gray aphanitic groundmass. XENOLITHS/AUTOLITHS: None observed. ALTERATION: Light olive gray 5Y 5/2 as vesicle coatings throughout interval and as coatings on fractures at 883.9 feet, 884.1 feet, and at the base of the interval.

BASALT:
 COLOR: Medium gray N5 throughout.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded, small sized vesicles. Rubble zone from 885.1 feet to 886.0 feet. Spatter at 885.0 feet
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 at base of interval. Altered groundmass.

BASALT:
 COLOR: Medium gray N5 through top portion of interval, medium light gray N6 in central and bottom portions of interval.



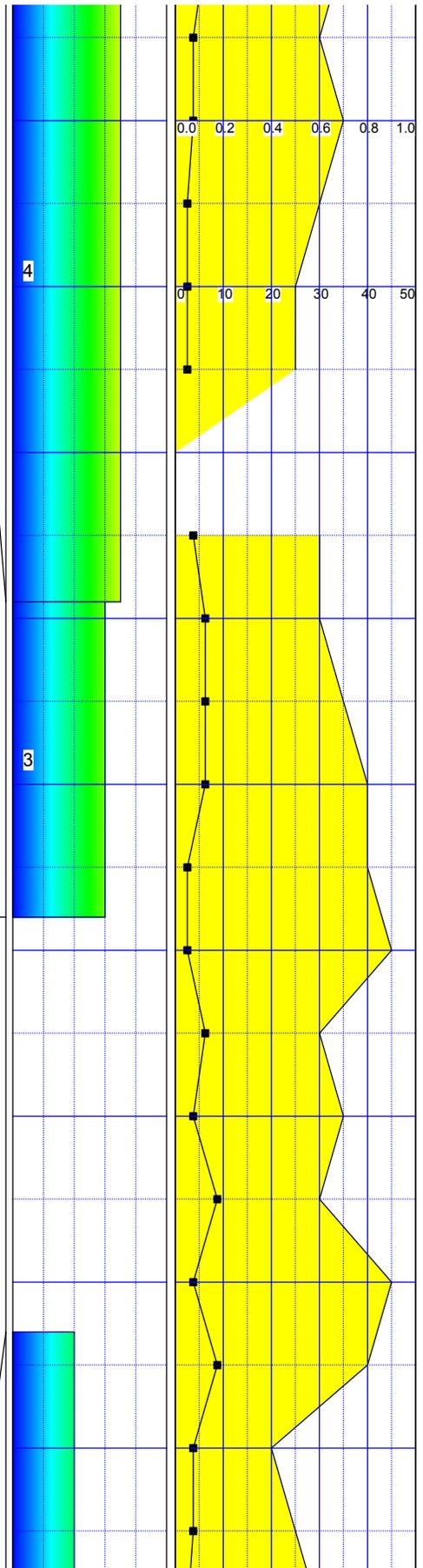


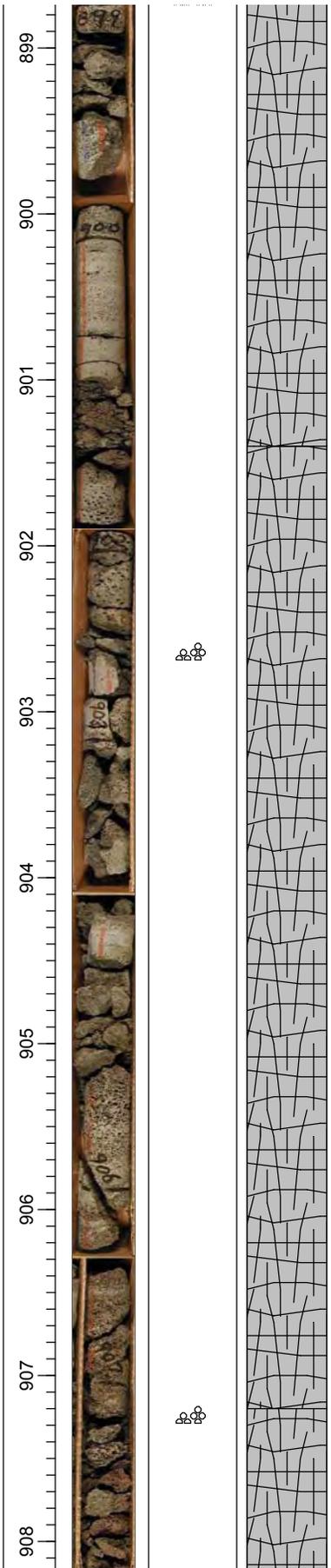
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Uniformly sized subrounded to rounded vesicles decrease in volume from top of interval. Massive texture from 890.6 feet to 891.4 feet. Vesicles resume to end of interval. Basalt rubble zone from 891.4 to 892.5 feet.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 10% submillimeter subhedral to euhedral black pyroxene phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light brown 5YR 5/6 at top of interval.

BASALT:
 COLOR: Medium Gray N5 throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Rounded to subrounded vesicles; frequency increases and size decreases from top of interval to base. Diktytaxitic texture with minor vesicles present from 893.0 feet to 893.7 feet. Glassy texture present at top of interval.
 COMPOSITION: 20% submillimeter to 4mm subhedral to euhedral acicular white pyroxene phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 at top of interval.

BASALT:
 COLOR: Medium gray N5 grading into medium dark gray N4 at base of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Irregular to rounded, small-sized vesicles grading into larger from 895.1 to 895.8 feet. High concentration of small-sized vesicles resume from 895.8 feet to end of interval. Spattery, scoriaceous zone from 896.1 feet to 896.5 feet. Spatter at top of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 and blackish red 5R 2/2 present at bottom of interval.
 NOTE TO KATIE: Possible flow break at 896.1 feet.

BASALT:
 COLOR: Medium gray N5 grading into medium light gray N6 through center of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. High frequency, small-sized vesicles grading into low volume larger vesicles from 897.8 feet to 898.0

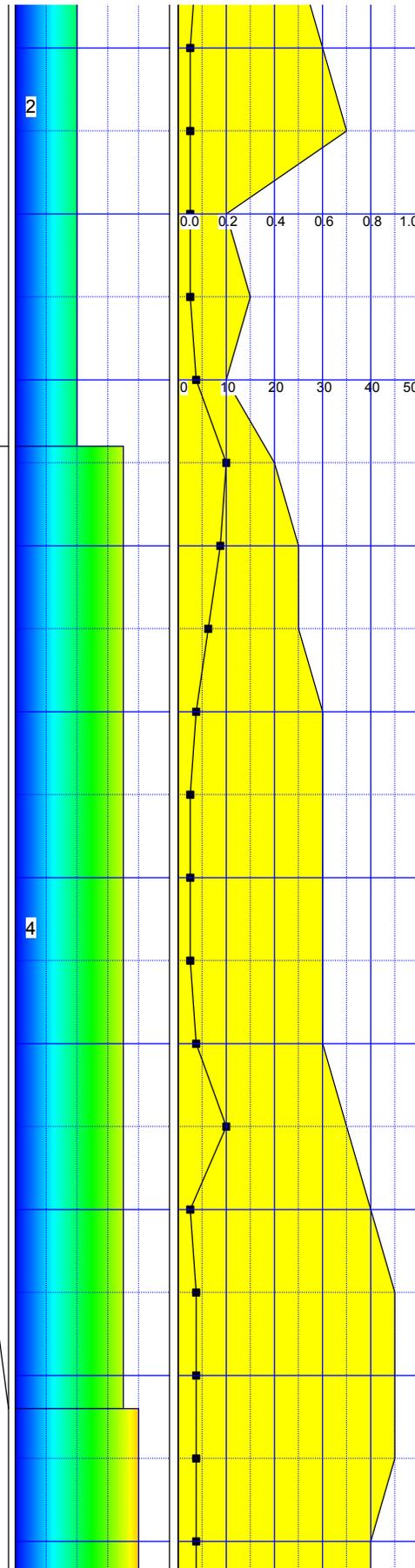


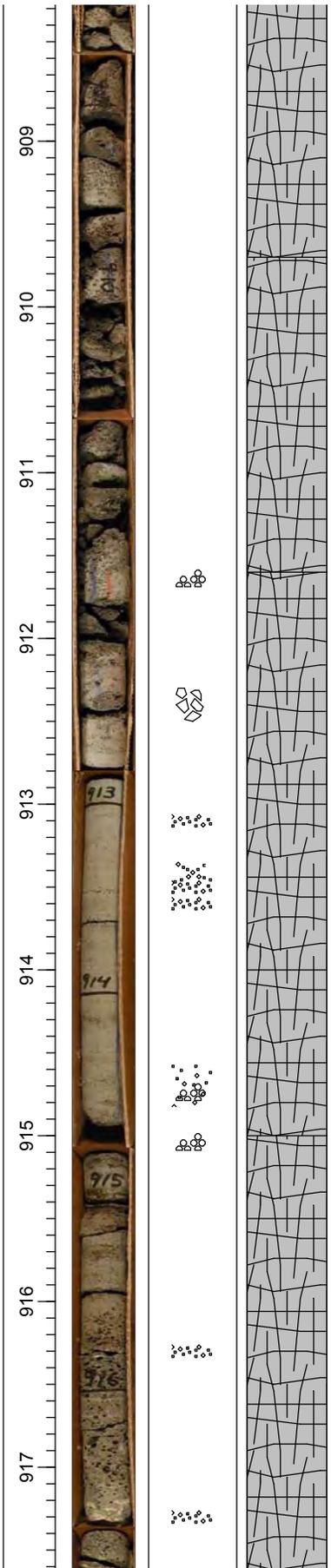


feet. Smaller vesicles resume at low frequency and grades into massive texture from 900.1 feet to 900.9 feet with sporadic, minor vesicles. Sediment covered basalt rubble to end of interval. Glassy spatter at top of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral green olivine phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 to blackish red 5R 2/2 at top of interval.

BASALT:
 COLOR: Medium gray N5 throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. Large, infrequent vesicles at top of interval grading into massive texture from 903.4 feet to 903.7 feet. Larger vesicles resume and transition into smaller, high volume vesicles at base of interval. Vesicle flow features prominent throughout interval. Spatter at top and bottom.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Brownish gray 5YR 4/land dark reddish brown 10R 3/4 at top of interval, Grayish red 5R 4/2 and pale brown 5YR 5/2 on surfaces at 906.1 feet and 906.3 feet. Blackish red 5R 2/2 at bottom of interval.

BASALT:
 COLOR: Medium gray N5 throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles uniform in size throughout interval, high volume through 909.3 feet. Vesicle frequency decreases from 909.3 feet to end. Spatter zones at top and bottom of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter



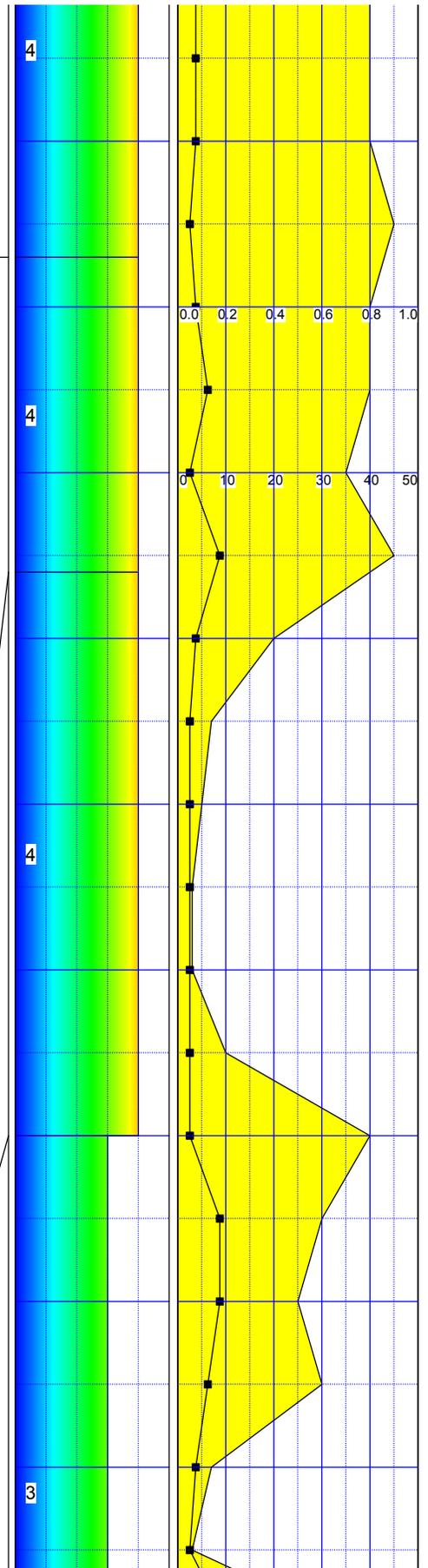


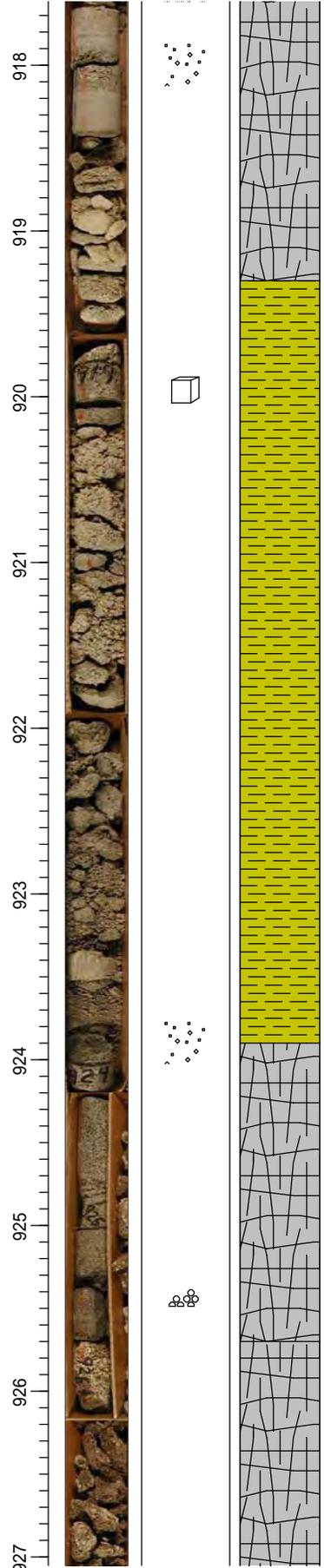
subhedral to euhedral black pyroxene phenocrysts; 15% submillimeter euhedral green olivine phenocrysts; 45% medium gray to medium light gray aphanitic groundmass.
MAGNETIC
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Grayish red 5R 4/2 rubble at top of interval. Blackish red 5R 2/2 glassy gunks at 908.9 feet. Moderate yellowish brown 10YR 5/4 fracture surfaces at 909.0 feet, 909.5 feet, and at bottom of interval. Extensive alteration of groundmass and plagioclase and olivine phenocrysts.

BASALT:
COLOR: Medium gray N5 grading into medium light gray N6 at bottom of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles uniformly sized and distributed throughout interval. Glassy texture at base.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Brownish gray 5YR 4/1 at top of interval, light brownish gray 5YR 6/1 at base of interval. Altered groundmass and pervasive alteration of olivine phenocrysts.

BASALT:
COLOR: Medium gray N5 throughout interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. Larger vesicles grading into smaller through top portion of interval. Massive texture present from 912.6 feet to 914.7 feet with vesicle planes and bands throughout. Spatter at top of interval, glassy texture at base.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Autolith observed at 912.4 feet.
ALTERATION: Light brownish gray 5YR 6/1 present on fracture surfaces at 912.2 feet and 912.6 feet, and at top portion of interval. Grayish red 5R 4/2 at 914.7 feet. Extensive alteration of groundmass and olivine phenocrysts.

BASALT:
COLOR: Medium dark gray N4 at top of interval grading into medium gray N5 through remainder. Very pale orange 10YR 8/2 sediment coating in vesicles and on fracture surfaces throughout interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. Vesicle size and frequency increases from 915.5 feet to 917.0 feet. Massive texture with vesicle bands from 917.0 feet to 918.0 feet. Sediment-covered basalt rubble from 918.0 feet to 918.9 feet with a high frequency of large vesicles grading into smaller vesicles through the end of the interval.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral



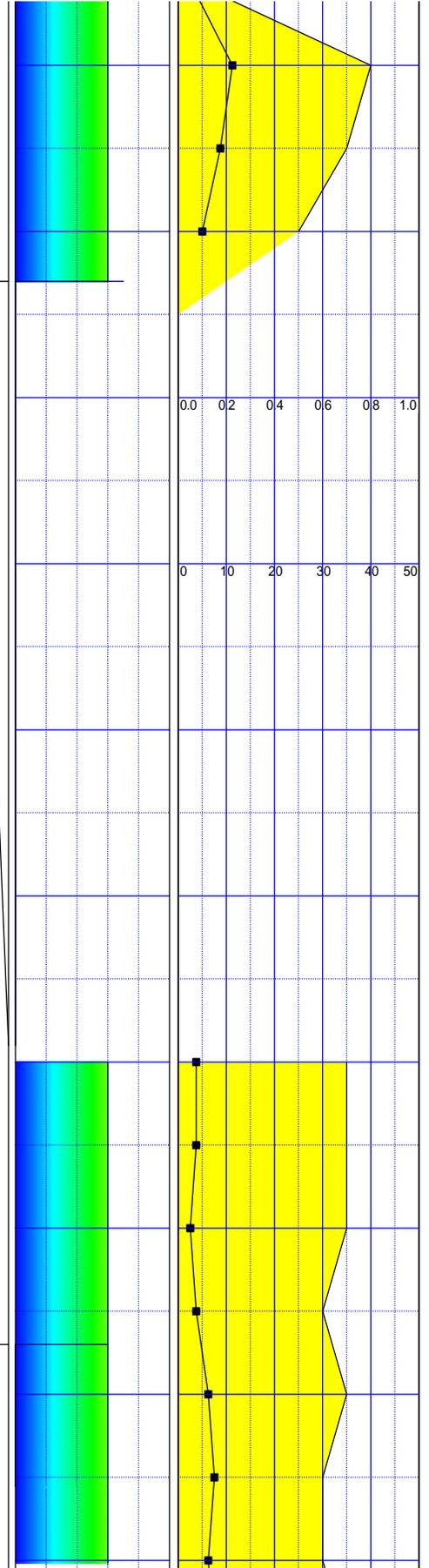


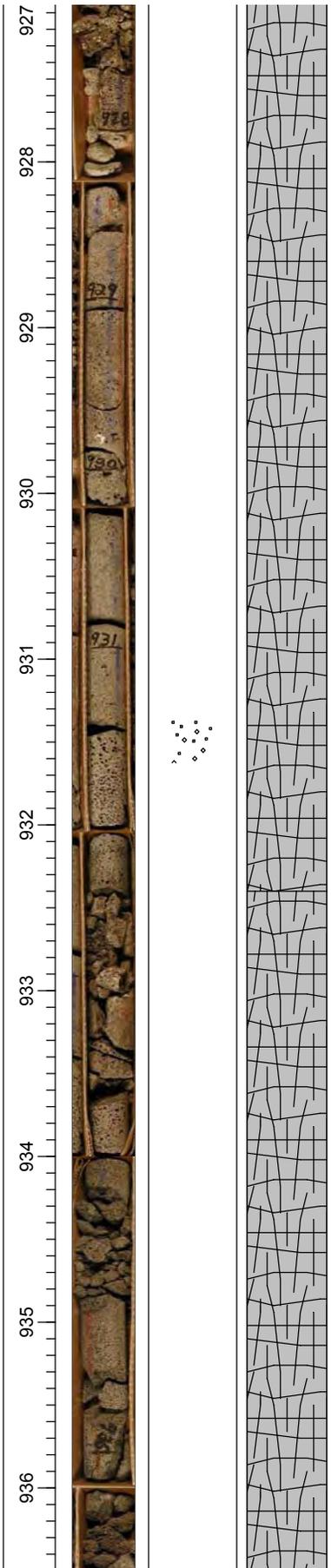
green olivine phenocrysts; 50% medium dark gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 and moderate red 5R 5/4 at 915.0 feet. Light bluish gray 5R 7/1 to medium bluish gray 5B 5/1 on fracture surface at 915.8 feet. Olivine phenocrysts altered throughout section. Pervasive alteration of groundmass.

SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Yellowish gray 5Y 8/1.
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Medium gray N5 from top through center, medium dark gray N4 at base of interval. Very pale orange 10YR 8/2 sediment coating on fracture surfaces and as vesicle fillings throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Subrounded to rounded vesicles uniformly sized and distributed throughout interval. Diktytaxitic texture present through center portion of interval, with scattered diktytaxitic vesicles throughout section. Scoriaceous texture present at 925.3 feet, glassy texture at end of interval. Dogtooth spar amygdale at 925.7 feet
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% medium gray to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish brown 10R 4/6 at bottom of interval. Altered, glassy groundmass.

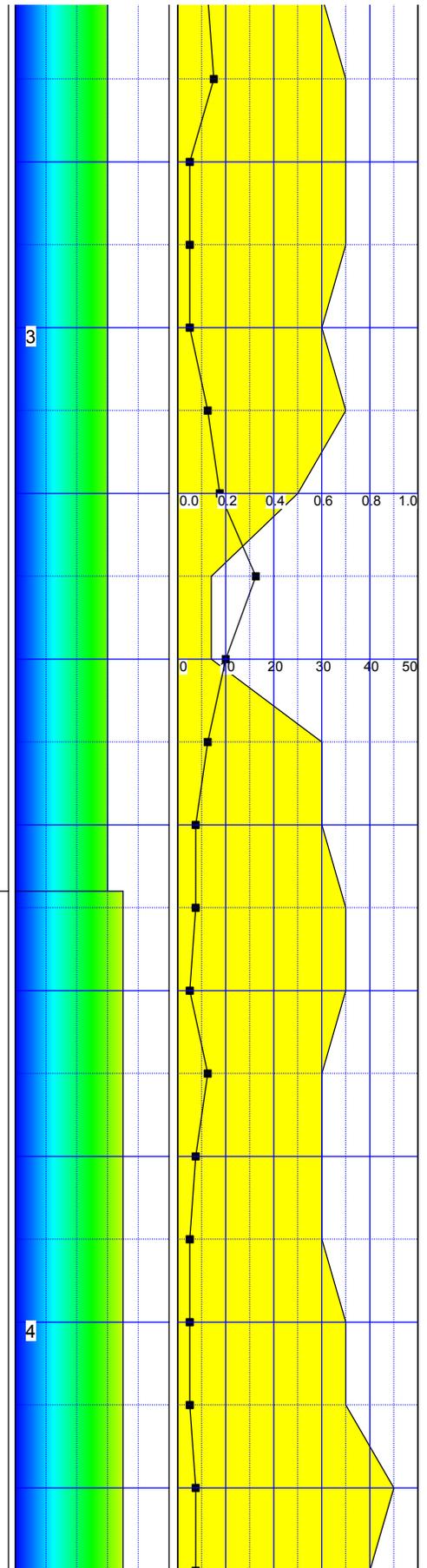
BASALT:
 COLOR: Grayish red 5R 4/2 from the top of the interval to 928.0 feet, grading into medium gray N5 through center of interval and medium dark gray N4 at base. Very pale orange 10YR 8/2 sediment coatings on fracture surfaces and as vesicle fillings throughout interval. Free calcite vesicle and fracture fillings.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Subrounded

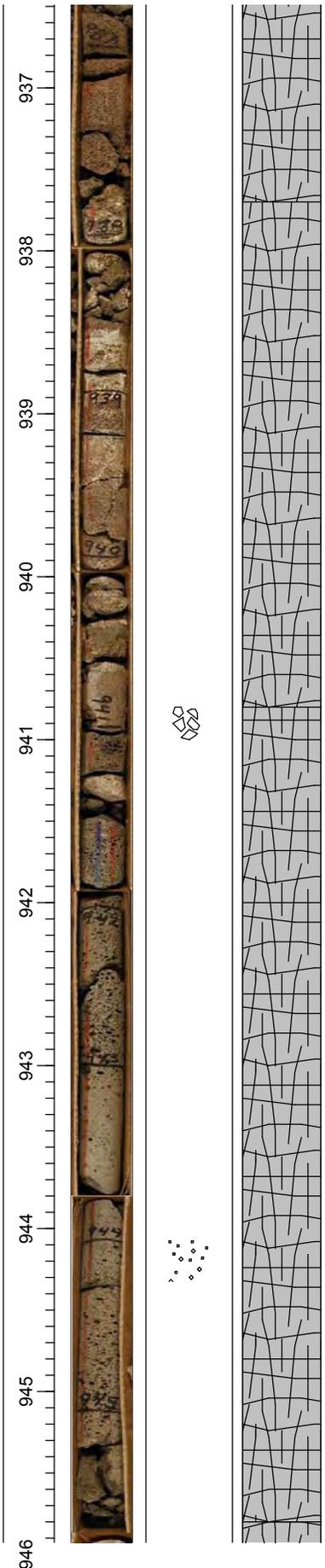




to rounded vesicles. Uniform vesicle size and distribution throughout interval. Diktytaxitic texture from 930.9 feet to 931.9 feet. Vesicles resume through end of interval. Glassy texture present at top and bottom of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic blobs of euhedral green olivine phenocrysts; 50% grayish red to medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate red 5R 5/4 at bottom glassy portion of interval.

BASALT:
 COLOR: Light brownish gray 5YR 6/1 grading into medium gray N5.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles. Large vesicles grading into smaller vesicles, uniform volume. Increase in vesicle size at base of interval. Spattery texture at top, glassy texture at 940.7 feet and at bottom.
 COMPOSITION: Few visible grains: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light brownish gray to medium gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Light bluish gray 5B 7/land grayish red 5R 4/2 at top at top of interval. Altered groundmass.

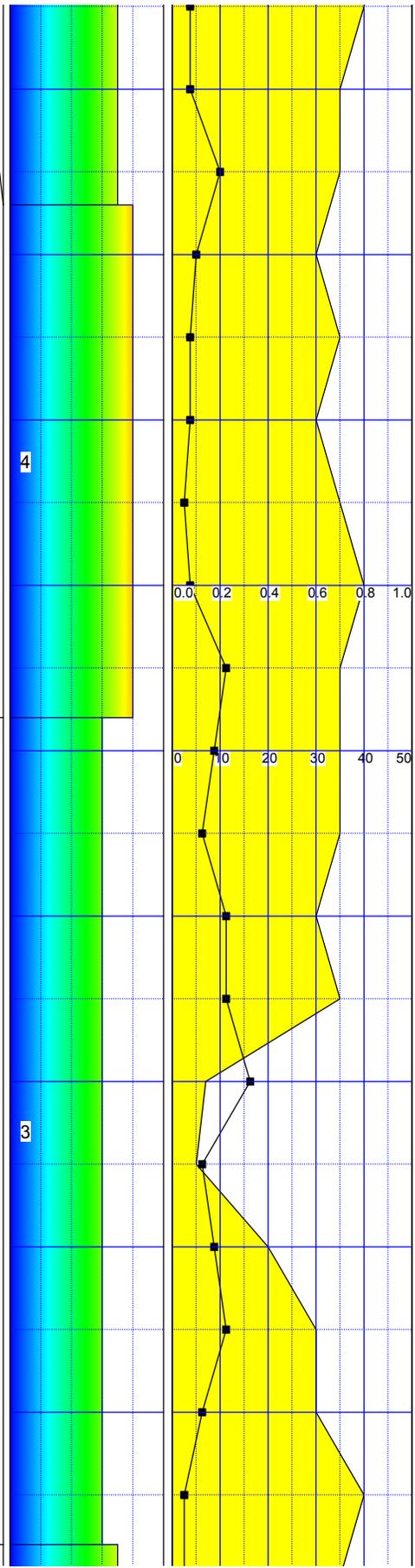


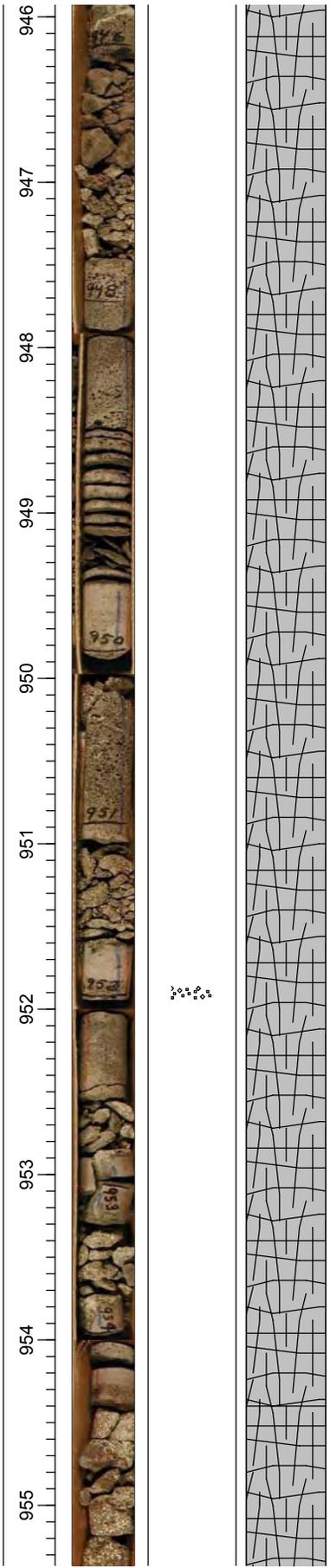


BASALT:
COLOR: Grayish red 5R 4/2 throughout interval. Very pale orange 10YR 8/2 sediment vesicle and fracture coatings throughout interval (free calcite).
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles decrease in size and increase in concentration from top to base of interval. Free calcite vesicle fillings present throughout interval. Calcite amygdules present from top to 939.0 feet. Spatter texture at top of interval. Glassy texture present at base of interval and at 940.7 feet. Dogtooth spar amygdules from 937.7 feet to 939.4 feet.
COMPOSITION: 15% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 5% submillimeter euhedral green olivine phenocrysts; 65% grayish red aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate red 5R 4/6 on glassy surface at top of interval, pale reddish brown 10R 5/4 on fracture surfaces at 937.0 feet, 937.3 feet. Pale reddish brown 10R 5/4 at 940.7 feet. Extensive olivine phenocryst alteration.

BASALT:
COLOR: Light brownish gray 5YR 6/1 from top of interval to 941.6 feet. Medium gray N5 grading into medium dark gray N4 through remainder of section. Very pale orange 10YR 8/2 sediment coatings on fracture surfaces and as vesicle fillings throughout interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. High concentration of small-sized, subrounded to rounded vesicles grading into larger from top to 942.8 feet. Diktytaxitic texture from 942.8 feet to 944.9 feet. Large vesicles resume and grade into smaller, high volume vesicles towards end of interval. Odd glassy blob at 940.9 feet, glassy texture at base.
COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% light brownish gray to medium gray to medium dark gray aphanitic groundmass.
XENOLITHS/AUTOLITHS:
ALTERATION: Moderate reddish brown 10R 4/6 at 940.8 feet. Moderate red 5R 5/4 at 945.7 feet.

BASALT:





COLOR: Brownish gray 5YR 4/1 throughout interval. Very pale orange 10YR 8/2 sediment coating at top of interval and on fracture surfaces and as vesicle fillings throughout interval.

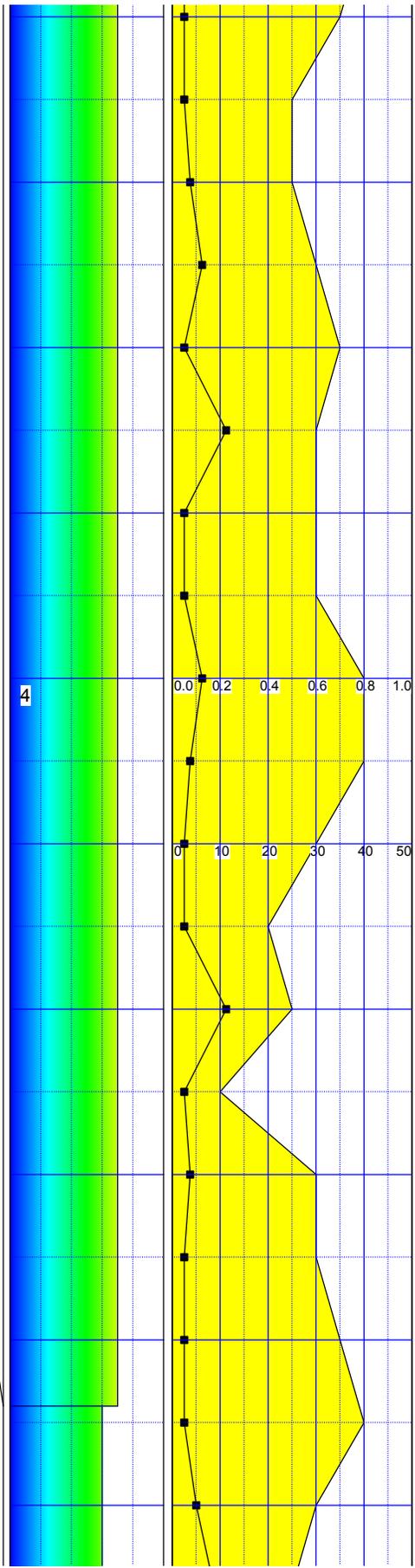
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. Zones of smaller vesicles interspersed with bands of larger vesicles (inflation features?) from top of interval to 946.6 feet. Dogtooth spar amygdules from 954.4 feet to 955.5 feet. Massive portions of interval from 946.6 feet to 950.0 feet, 952.8 feet to 953.2 feet, 953.8 feet to 954.6 feet, and from 957.7 feet to 957.9 feet. Massive sections separated by zones of small vesicles and sediment-coated rubble. Rubbly basalt present from 946.0 feet to 947.8 feet.

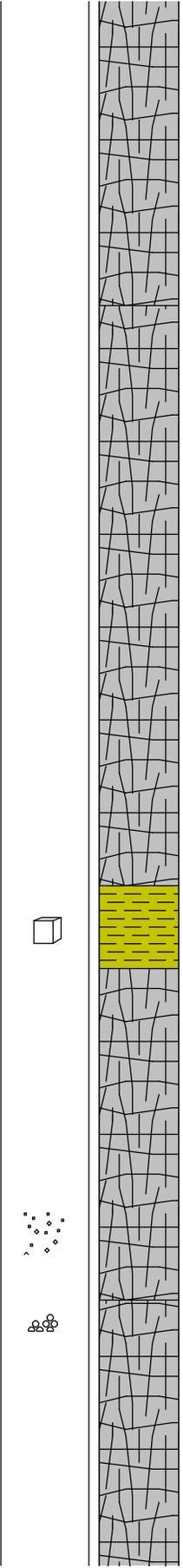
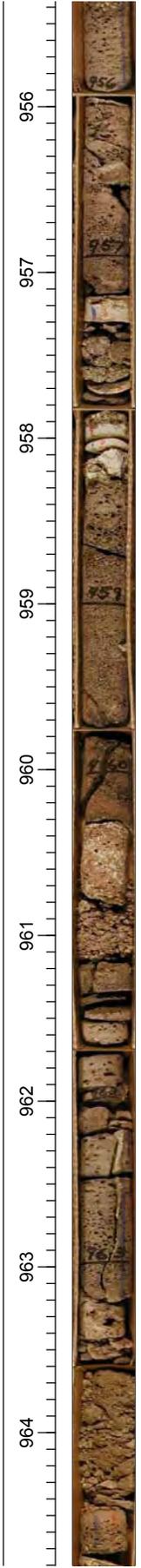
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% moderate reddish brown to grayish red to pale red aphanitic groundmass.

XENOLITHS/AUTOLITHS: None observed.

ALTERATION: Moderate reddish orange 10R 6/6 at top of interval, moderate red 5R 5/4 and dusky red 5R 3/4 at bottom of interval. Moderate reddish brown 10R 6/6 at 947.3 feet. Grayish red 5R 4/2 coatings on rubble.

BASALT:
 COLOR: Moderate reddish brown 10R 4/6 grading into grayish red 5R 4/2 in top and central portions of interval. Pale red 5R 6/2 at end of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Subrounded to rounded vesicles increase in size and decrease in volume through center portion of interval. Calcite spar amygdules present from top of interval to 655.4 feet. Glassy texture at





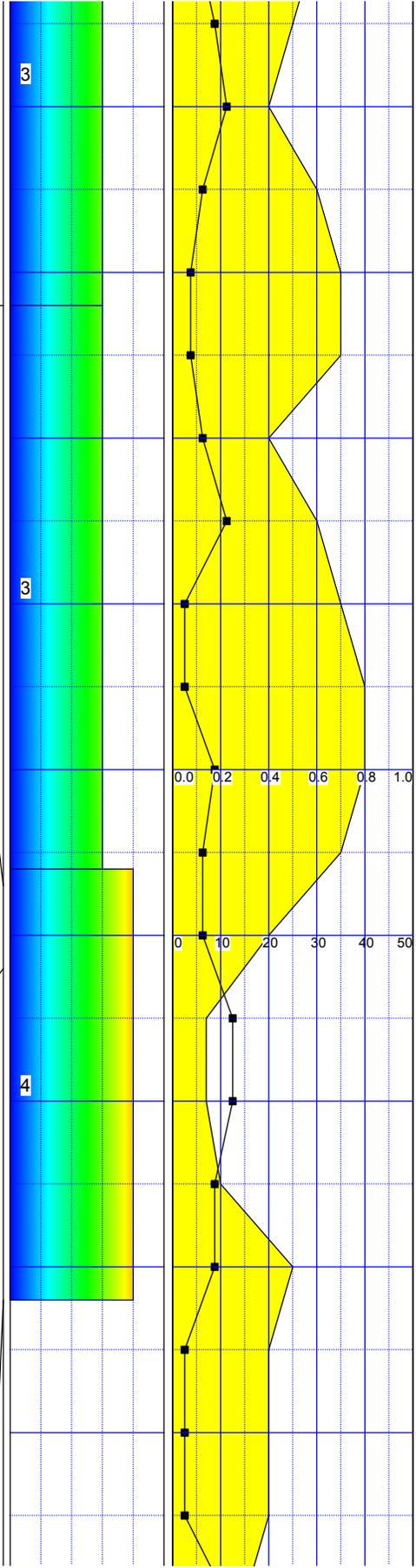
bottom, possible flow mold.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% moderate reddish brown to grayish red to pale red aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Grayish red 5R 4/2 and moderate reddish brown 10R 4/6 at top portion of section. Dark yellowish brown 10YR 4/2 and moderate red 5R 4/6 at bottom. Altered, glassy groundmass.

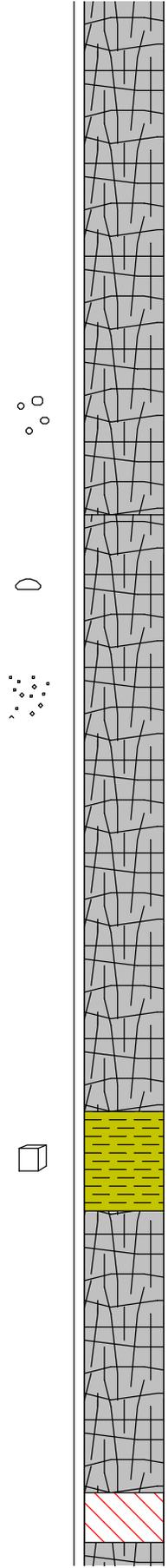
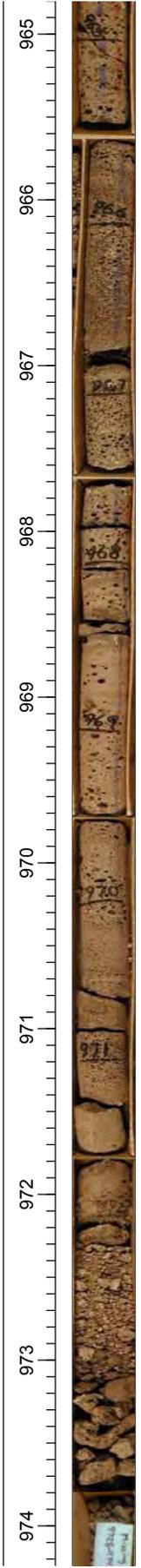
BASALT:
 COLOR: Brownish gray 5YR 4/1 throughout interval. Yellowish gray 5Y 8/1 sediment coatings and layers throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. Small-sized, subrounded to rounded vesicles grading into larger sized through end. Uniform concentration of vesicles throughout interval. Calcite amygdules 960.3 feet to 960.7 feet. Flow mold at 960.3 feet.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish brown 10R 4/6 and grayish red 5R 4/2 at top of interval, pale reddish brown 10R 5/4 at 960.2 feet. Light brown 5YR 5/6 at bottom of interval.

SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Light brownish gray 5YR 6/1 to yellowish gray 5Y 8/1.
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes.
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Pale reddish brown 10R 5/4 grading into light brownish gray 5YR 6/1 through remainder of interval. Very pale orange 10YR 8/2 sediment coatings on fracture surfaces and as vesicle fillings throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Rounded to subrounded vesicles. High concentrations of small vesicles grade into massive texture from 961.4 feet to 962.4 feet. Massive zone contains sporadic and scattered large vesicles. High concentrations of small vesicles resume at end of interval.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% pale reddish brown to light brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Moderate reddish brown 10R 4/6 and pale red 10R 6/2 at top of interval. Zoned olivine phenocrysts observed--normal zonation (darker rimmed).

BASALT:
 COLOR: Light brownish gray 5YR 6/1. Very



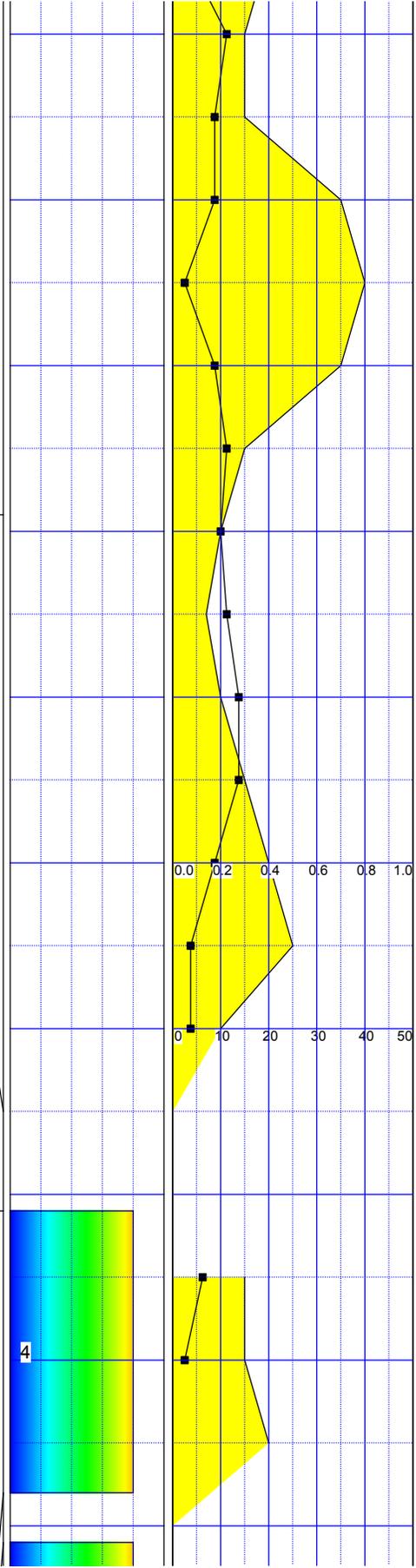


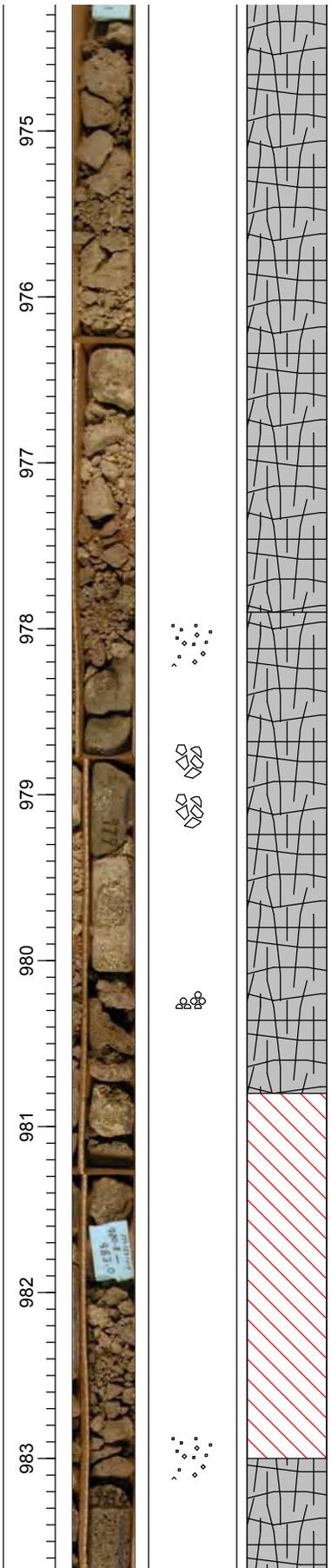
pale orange 10YR 8/2 sediment coatings throughout interval
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Sediment-covered basalt rubble from 963.5 feet to 965.5 feet. High concentrations of small-sized, subrounded to rounded vesicles present from end of rubble zone to end of interval. Spatter present at top of interval. Glassy texture at end.
 COMPOSITION: Few visible grains: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter euhedral green olivine phenocrysts; 50% light brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pale red 10R 6/2 at top. Light bluish gray 5B 7/1 at 963.4 feet. Altered, glassy groundmass.

BASALT:
 COLOR: Light brownish gray 5YR 6/1 with very pale orange 10YR 8/2 sediment coating throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Subrounded to rounded vesicles. Large volume of small-sized vesicles from top of interval, grading into larger, less frequent vesicles to massive zone at 968.3 feet. Massive portion of interval from 968.3 feet to 969.1 feet and contains scattered large vesicles. Small, high frequency vesicles resume to end of interval.
 COMPOSITION: 20% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% light brownish gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: None observed.
 ALTERATION: Pale reddish brown 10R 5/4 at 971.2 feet. Red alteration rims present on olivine phenocrysts.

SILT AND CLAY:
 TEXTURE: Silt and Clay
 COLOR: Pale red 10R 6/2.
 CONSISTENCY: Friable
 STRUCTURES: Structureless
 FREE CARBONATES: Yes.
 ROCK: No
 ROOTS/FOSSILS: None noted

BASALT:
 COLOR: Light brownish gray 5YR 6/1 grading into brownish gray 5YR 6/1 through remainder of interval. Very pale orange 10YR 8/2 sediment coatings throughout interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Sediment covered basalt rubble with small, subrounded to rounded, uniformly distributed vesicles.
 COMPOSITION: Few visible grains: 15% submillimeter to 1mm subhedral to euhedral acicular white plagioclase phenocrysts; 15% submillimeter subhedral to euhedral black pyroxene phenocrysts; 5% submillimeter euhedral olivine phenocrysts; 65% Light brownish gray to brownish gray aphanitic groundmass.





XENOLITHS/AUTOLITHS: None observed.
ALTERATION: None observed

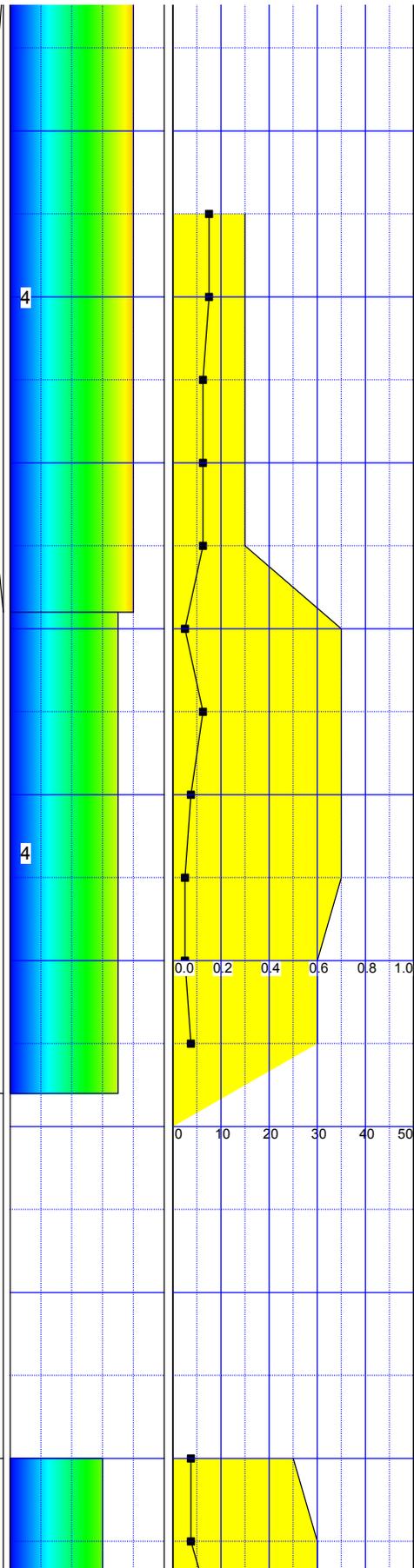
MISSING INTERVAL:
Interval not recovered

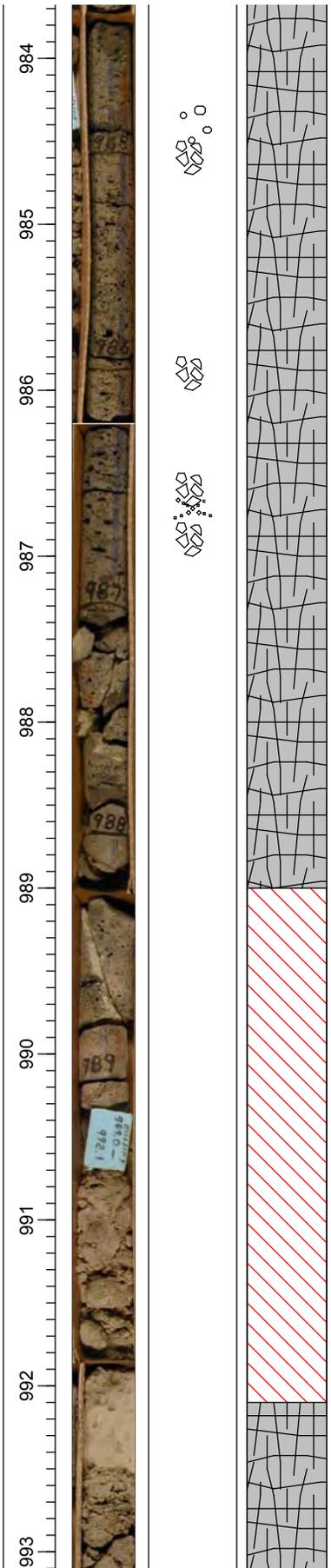
BASALT:
COLOR: Pale red 10R 6/2 is top section of sediment covered basalt rubble. Yellowish gray 5Y 7/2 in middle section of sediment covered rubble, and light brownish gray 5YR 6/1 in basalt rubble at base of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Sediment covered rubble from 974.1 feet to 976.2 feet. subrounded to rounded vesicles increase in size from top of interval to bottom (when they can be seen through the sediment coating).
COMPOSITION: As a result of the sediment coating, no grains could be accurately observed without unscientific speculation.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate reddish brown 10R 4/6 at 977.5 feet.

BASALT:
COLOR: Medium gray N4 at top of interval, yellowish gray 5Y 8/1 free calcite vesicle and fracture fillings throughout interval. Grayish red 5R 4/2 at end of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. High concentrations of small-sized vesicles with included basalt clast at 979.1 feet. Free calcite as vesicle fillings throughout interval. Uniform concentration of subrounded to rounded vesicles.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to grayish red aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate reddish brown 10R 4/6 coating fracture surfaces at 978.5 feet, 977.9 feet, and throughout the interval. Moderate reddish brown along boundary between incorporated clast and flow. Grayish red 10R 4/2 vesicle staining. Altered groundmass containing glassy red spots, olivine phenocrysts contain red rims.

MISSING INTERVAL:
Interval not recovered

BASALT:
COLOR: Medium dark gray N4 basalt with light brownish gray 5YR 6/1 sediment coating at top of interval. Yellowish gray 5Y 8/1 free calcite in vesicles and as fracture coatings throughout interval. Light brownish gray at

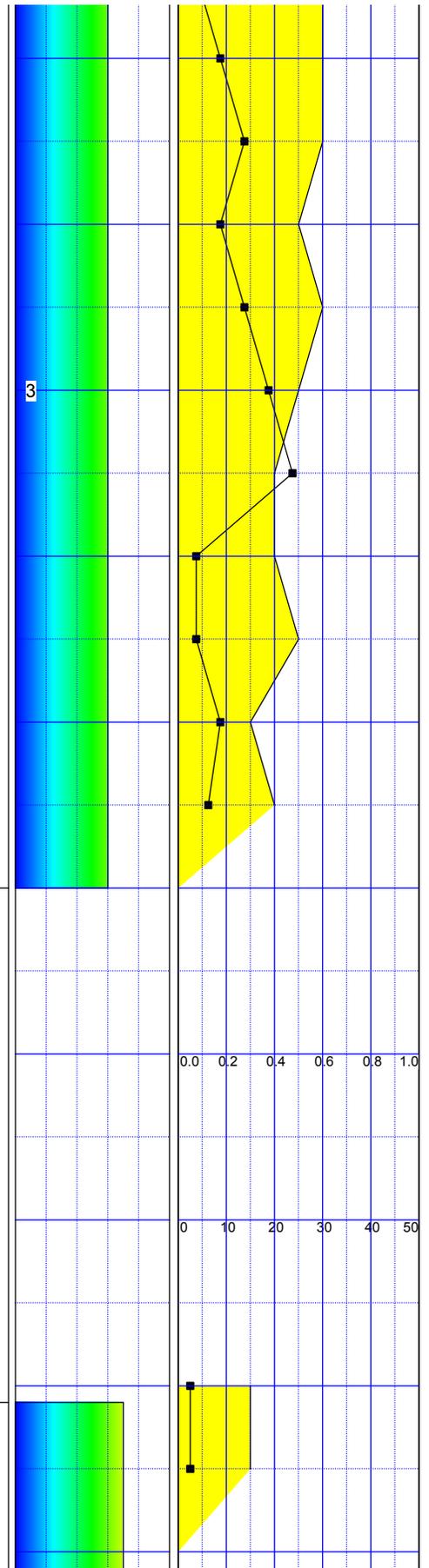


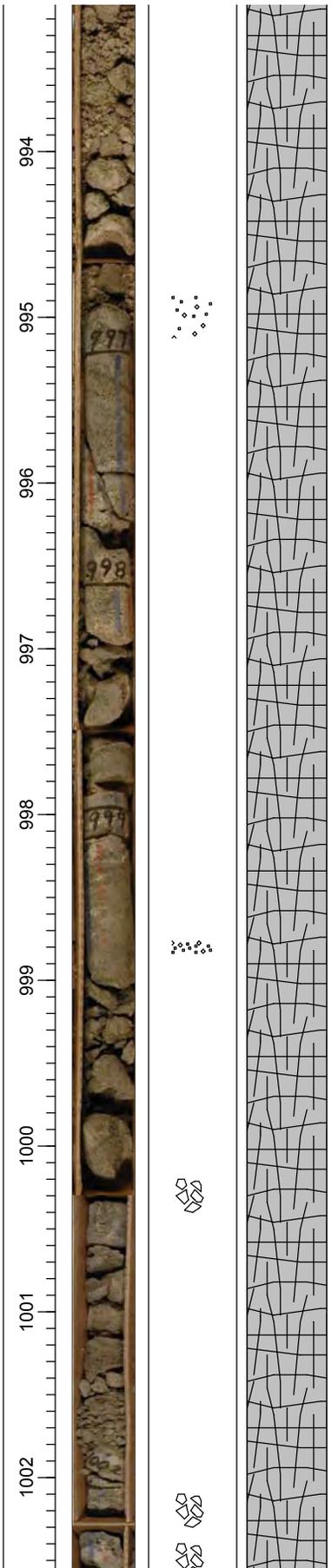


bottom of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Rubbly, sediment-covered basalt from 983.0 feet to 984.0 feet. Subrounded to rounded vesicles increase in size and decrease in frequency through center of interval.
 COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium dark gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Autoliths observed at 984.6 feet, 985.9 feet, 986.6 feet, and 986.9 feet.
 ALTERATION: Gryaish red 5R 4/2 at 988.9 feet. Olivine phenocrysts contain red alteration rims. Altered, glassy groundmass.

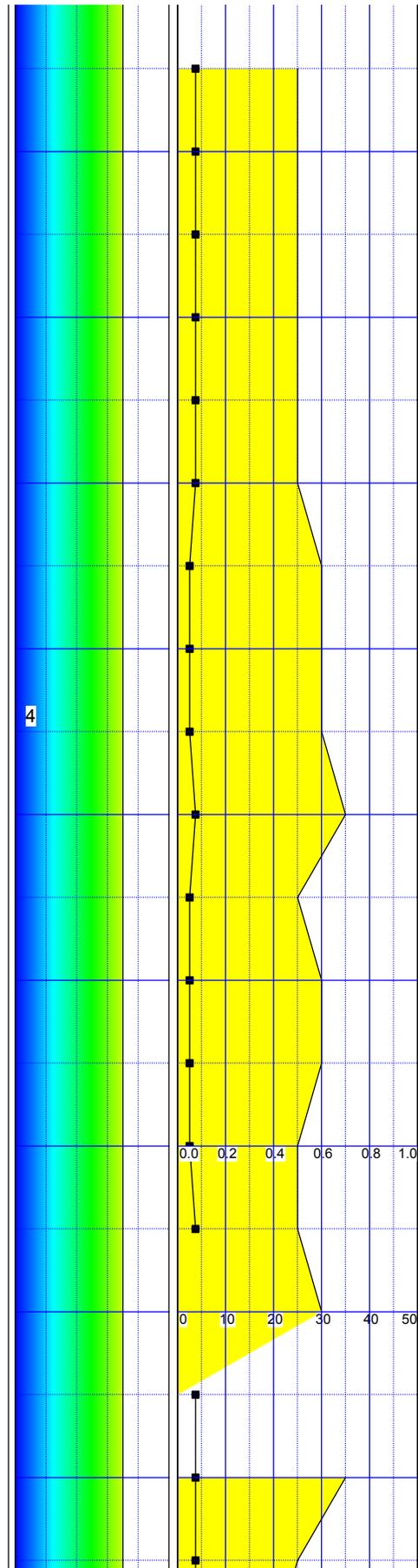
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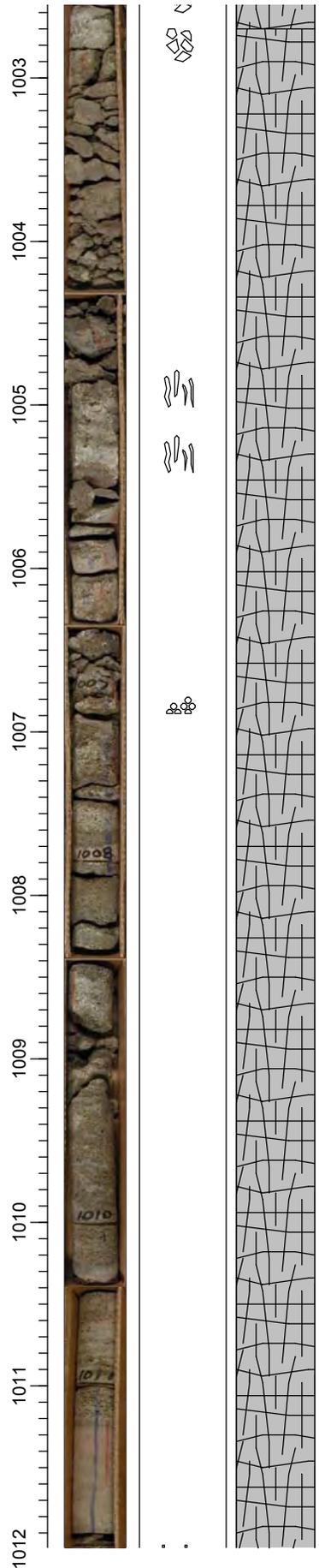
BASALT:
 COLOR: Medium gray N5 in top and center, light gray N7 at base of interval. Pale yellowish brown 10YR 6/2 sediment coatings, yellowish gray 5Y 8/1 free calcite vesicle fillings and fracture coatings throughout interval. Medium gray clasts at bottom of interval in matrix of light gray.
 TEXTURE: Porphyritic-aphanitic,



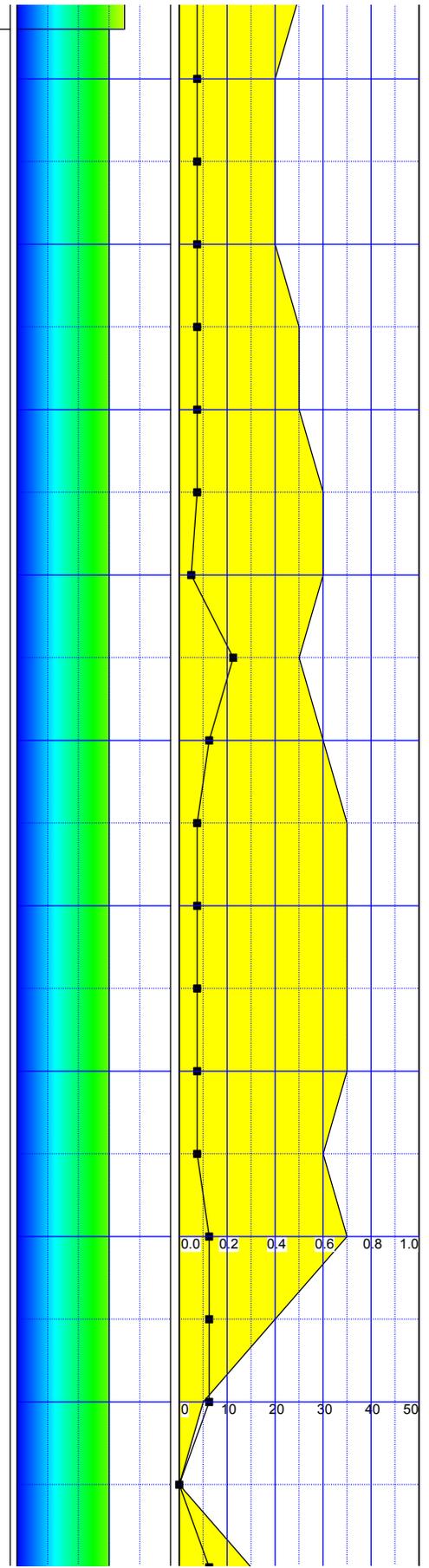


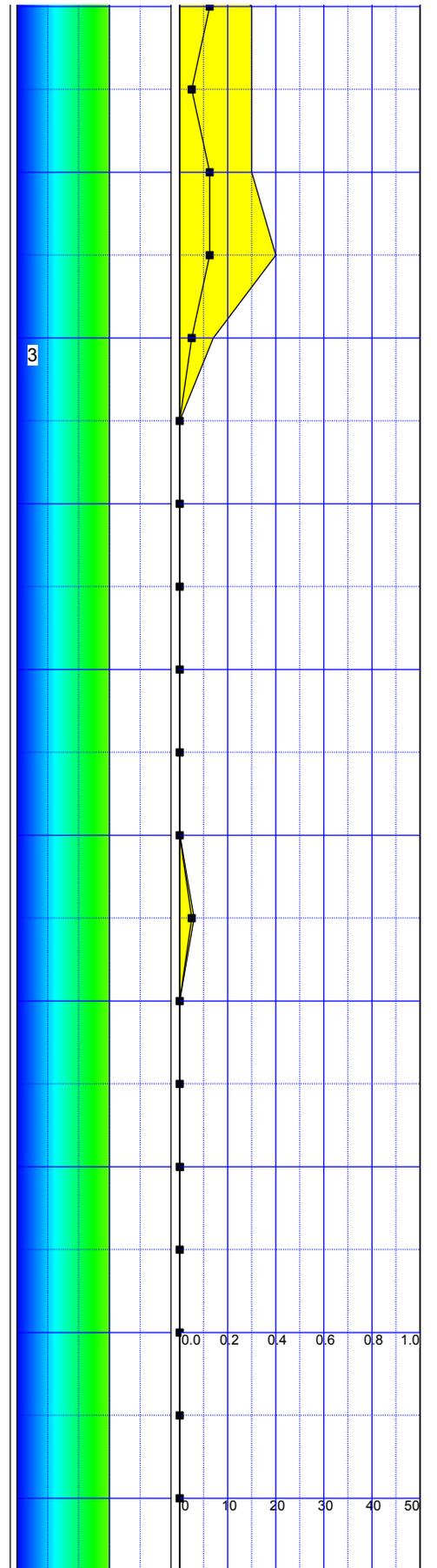
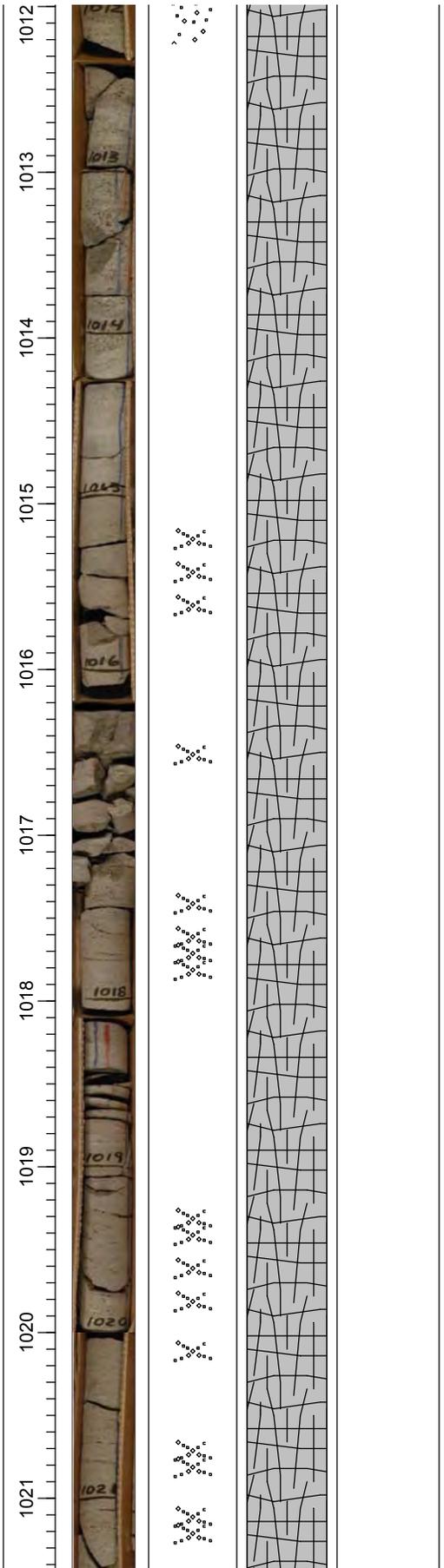
glomeroporphyritic granular, subophitic, vesicular basalt. Sediment with entrained basalt rubble 992.1 feet to 993.7 feet. Sediment coated basalt rubble from 993.7 feet to 994.5 feet. Uniform subrounded to rounded vesiculation and size with flow patterns observed throughout interval. Included angular basalt clasts at base. Dogtooth spar amygdules at 997.6 feet and from 1002.0 to 1002.2 feet.
 COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to lmm euhedral green olivine phenocrysts; 50% medium gray to light gray aphanitic groundmass.
 XENOLITHS/AUTOLITHS: Incorporated clasts at 1000.3 feet. 1002.2 feet, and 1002.5 feet.
 ALTERATION: Grayish red 5R 4/2 staining on rubble at 996.8. Light bluish gray 5B 7/1 staining in ~.01' massive portions of flow adjacent to vesicle flow bands. Red rims observed on olivine phenocrysts, altered plagioclase.

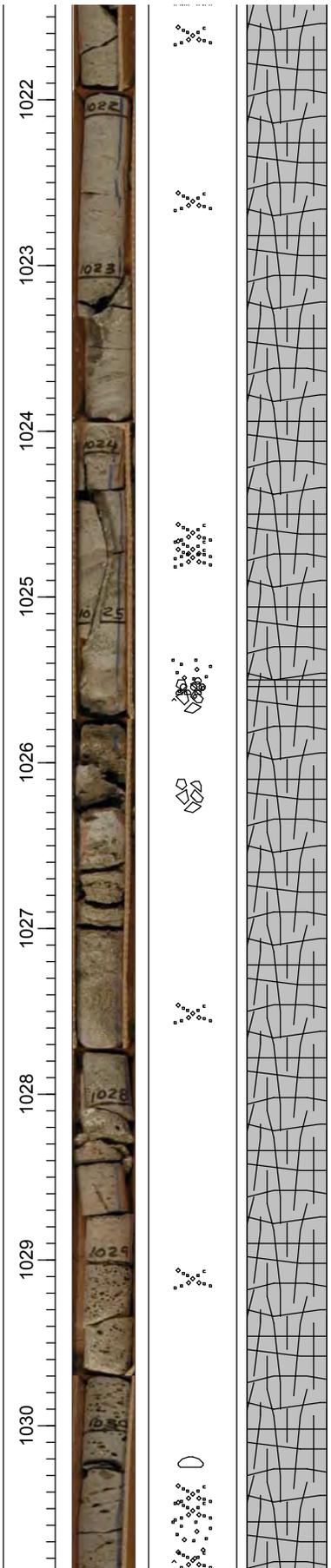




BASALT:
COLOR: Medium gray N5 in top and central portion of interval, dark gray N3 at base of interval. Pale yellowish brown sediment coating on basalt at top of interval. Yellowish gray 5Y 8/1 to white N9 free calcite as vesicle fillings and fracture coatings throughout interval. Medium gray incorporated clast at 1002.0 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Sediment coated basalt rubble 1002.8 feet to 1005.5 feet. Uniform concentrations and sizes of subrounded to rounded vesicles grading into massive basalt with minor vesicles and sporadic vesicle planes. Bands of diktytaxitic texture from 1021.8 feet through the end of the interval. Scoriaceous texture present at base.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium gray to dark gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Incorporated clast at 1002.8 feet.
ALTERATION: Pale red 5R 6/2 to moderate reddish brown 10R 4/6 staining surrounding incorporated clasts and at top of interval in rubble area. Light bluish gray 5B 7/1 in vesicle flow bands, proximal to light brownish gray 5YR 6/1 ~.01' massive zones. Light olive brown 5Y 5/6 fracture coating 1019.5 feet. Dusky yellow 5Y 6/4 from 1007.1 feet to 1008.3 feet. Altered olivine and plagioclase phenocrysts. Altered, glassy groundmass. Beautiful pyroxenes present in this interval.

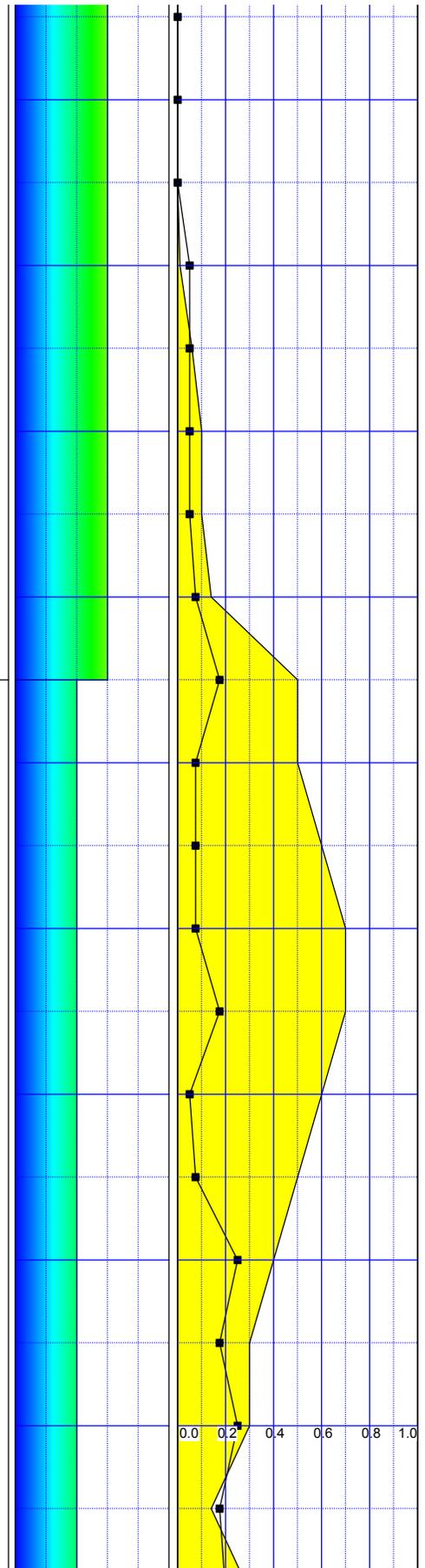


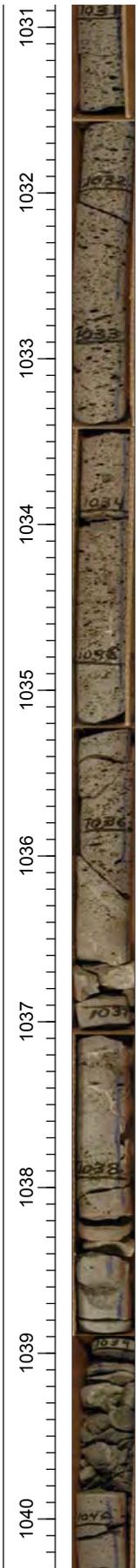




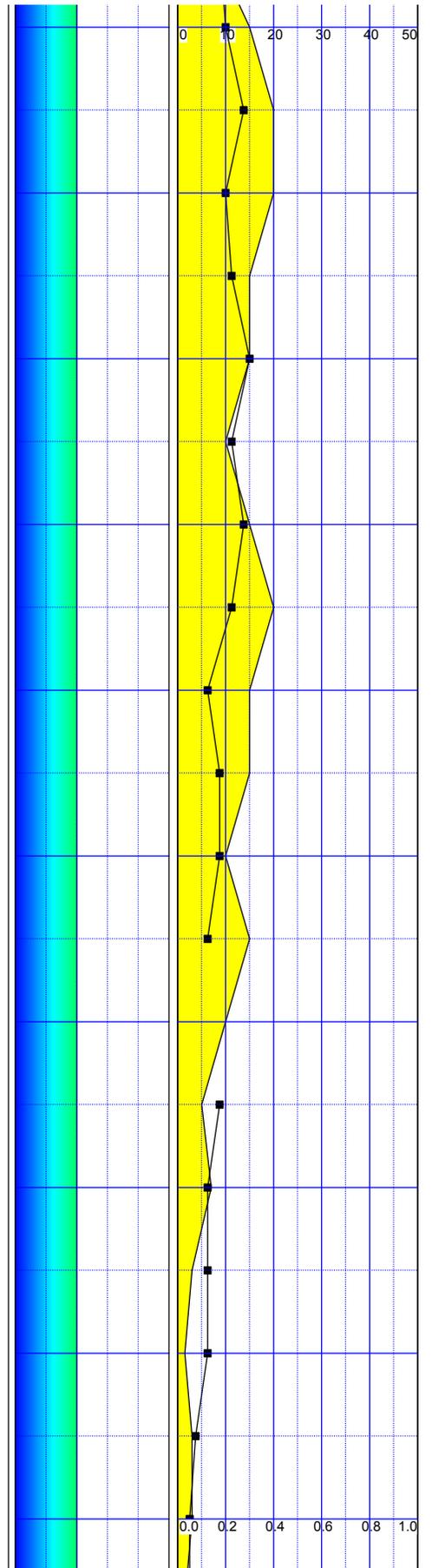
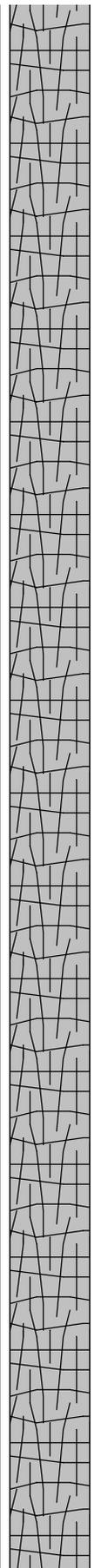
BASALT:
COLOR: Medium gray N5 with incorporated clasts of light gray N7 at top of interval. Medium light gray N6 through center, massive portion of interval. Yellowish gray 5Y 8/1 to very light gray N8 free calcite as vesicle fillings and fracture coatings throughout interval. Medium gray N5 at base of interval.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Uniform size and concentration of subrounded to rounded vesicles distributed in wavy, irregular flow/inflation(?) bands. Rounded included clasts present from top of interval to 1026.7 feet. Vesiculation ends at 1028.1 feet. Massive zone from 1028.1 feet to 1029.0 feet. Large vesicles present from 1029.0 feet to 1038.3 feet. Dogtooth spar fracture filling from 1036.7 feet to 1037.9 feet and vesicle fillings at 1026.2 feet and 1027.6 feet. Massive texture resumes from 1038.3 feet, grading into smaller, more frequent vesicles through end of interval. Scoriaceous texture at end.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 1mm euhedral green olivine phenocrysts; 50% medium gray to light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Incorporated clasts at 1025.6 feet and 1026.2 feet; autolith present at 1057.5 feet,
ALTERATION: Dark yellowish orange 10YR 6/6 vesicle filling from 1029.6 feet to 1029.8 feet. Pale yellowish orange 10YR 8/6 vesicle filling at 1063.1 feet. Altered groundmass and olivine phenocrysts.

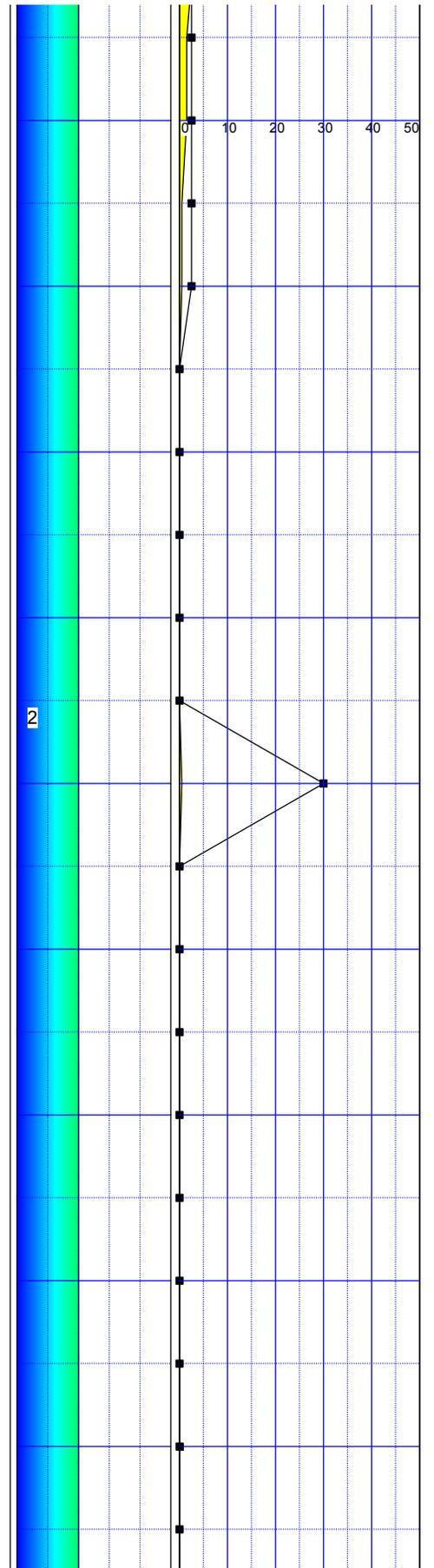
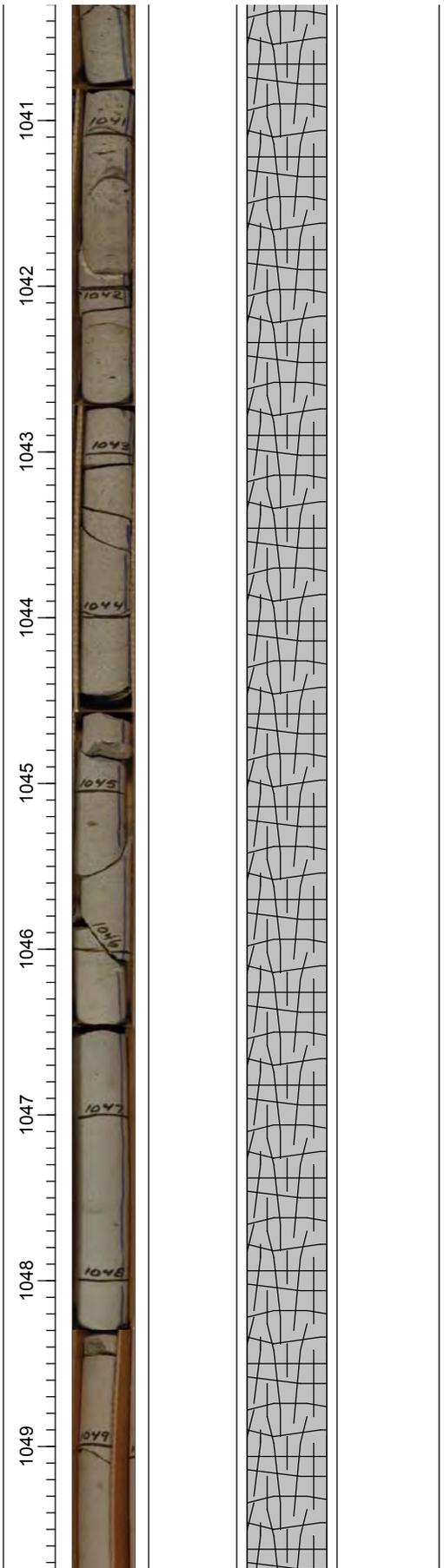
Large pyroxene phenocrysts





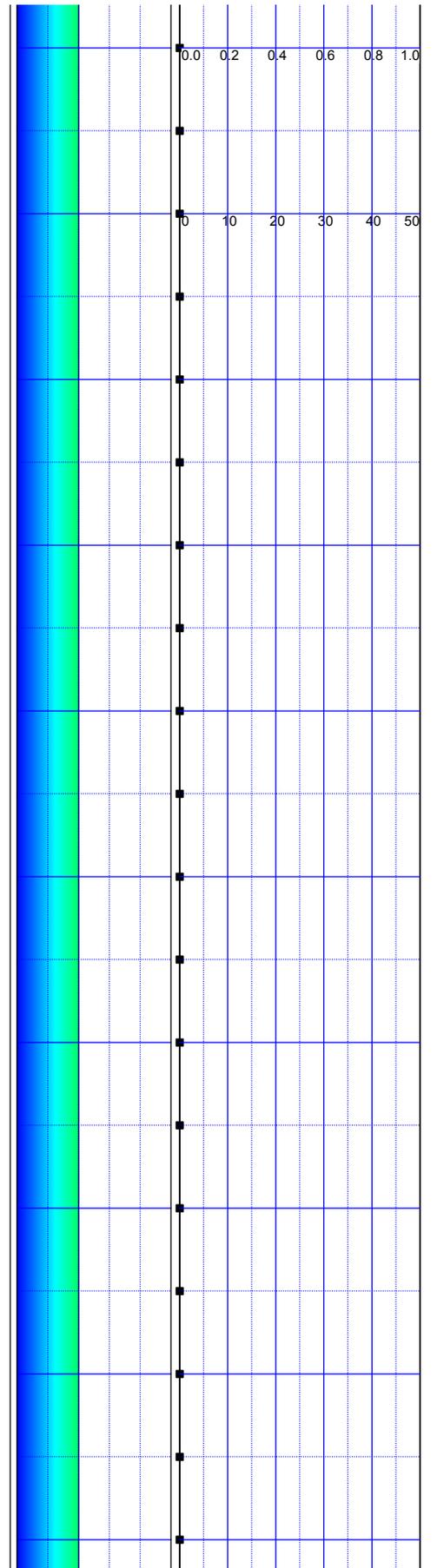
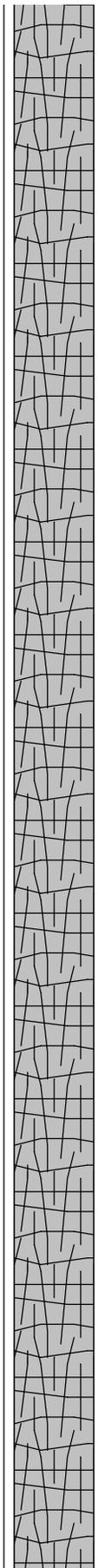
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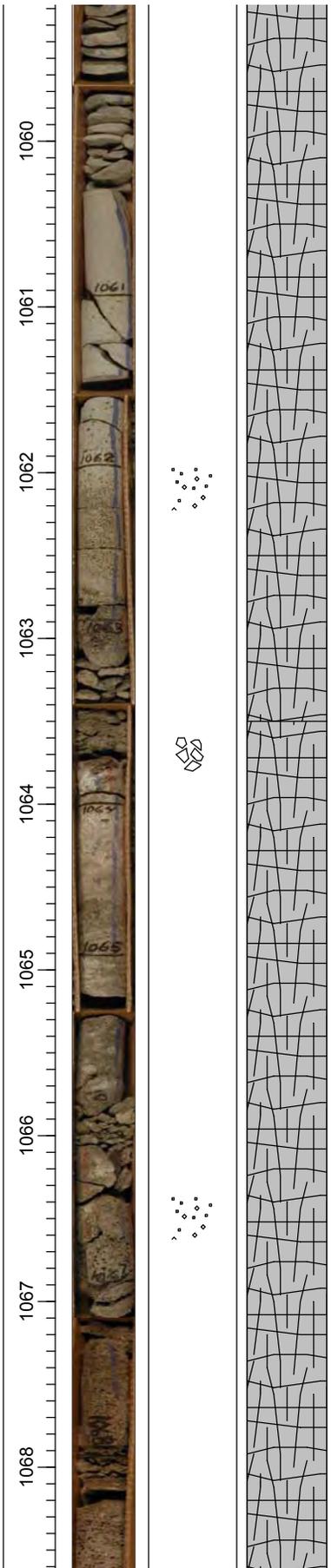




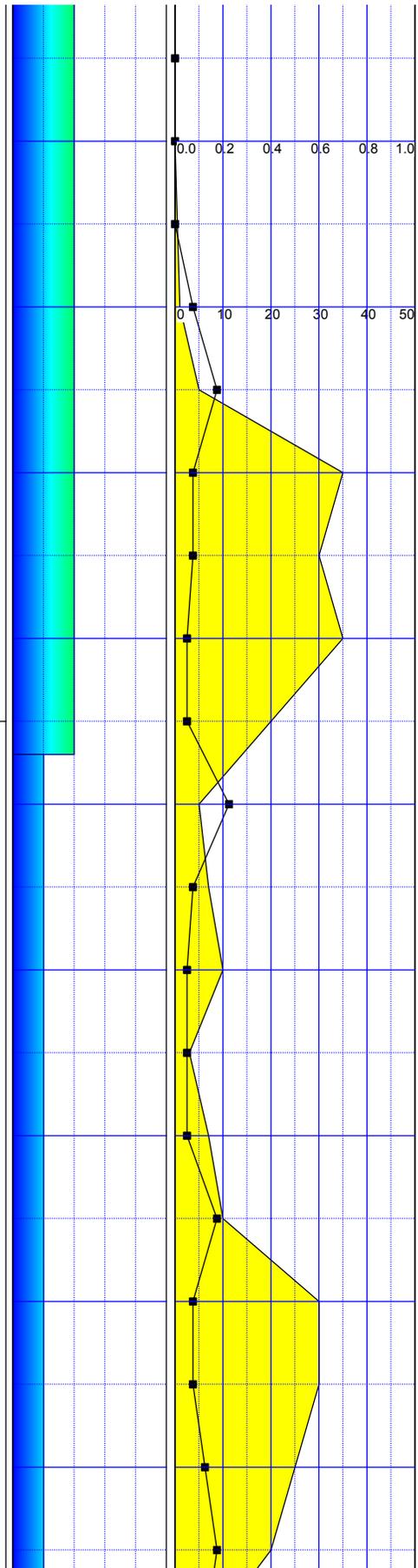


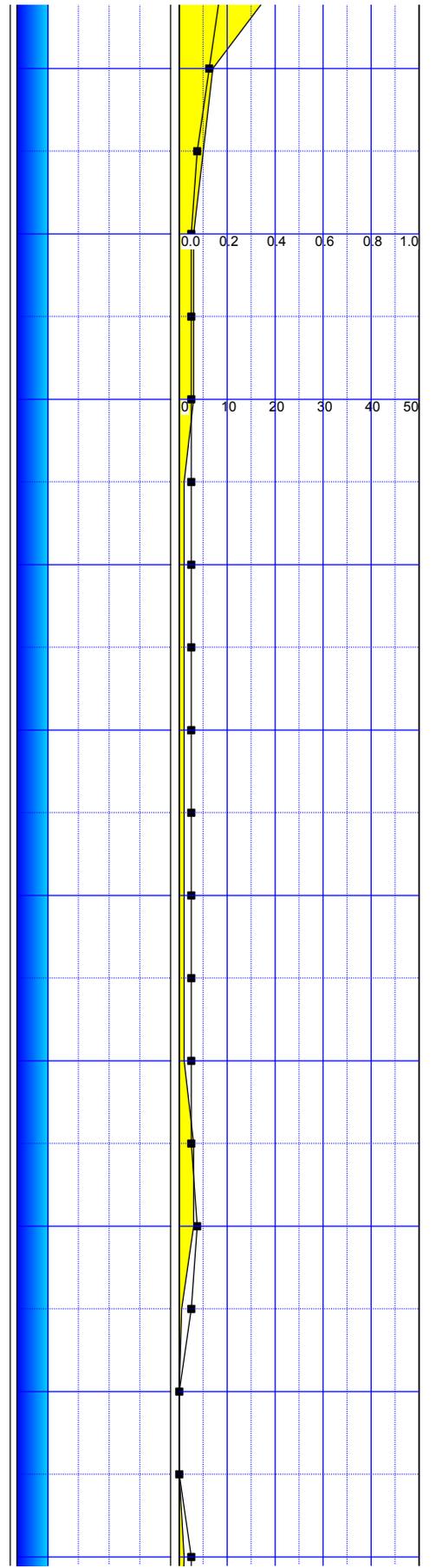
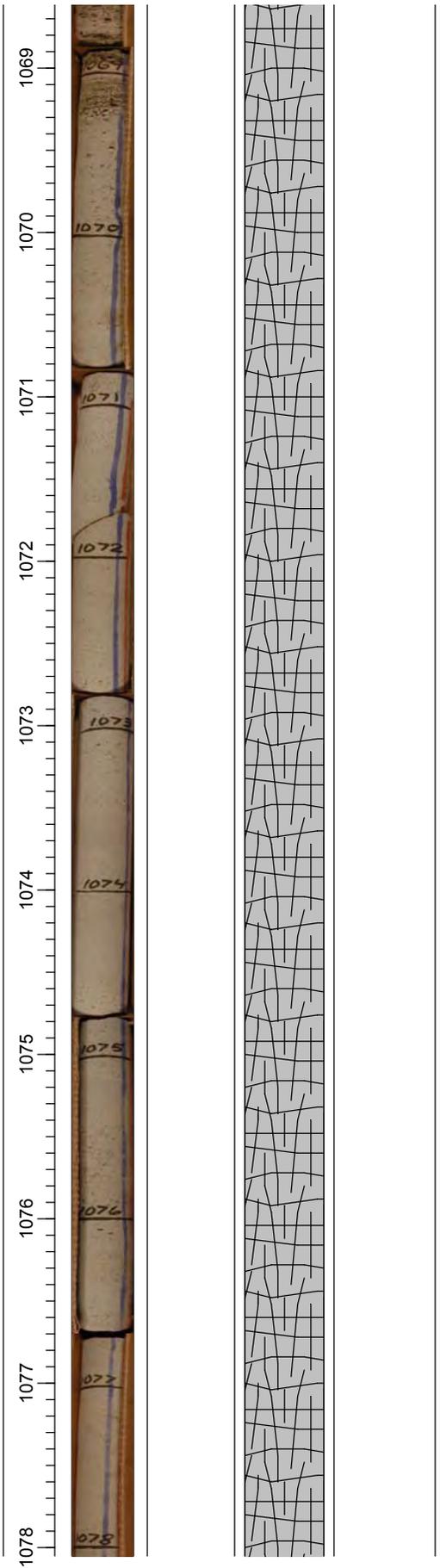
1020

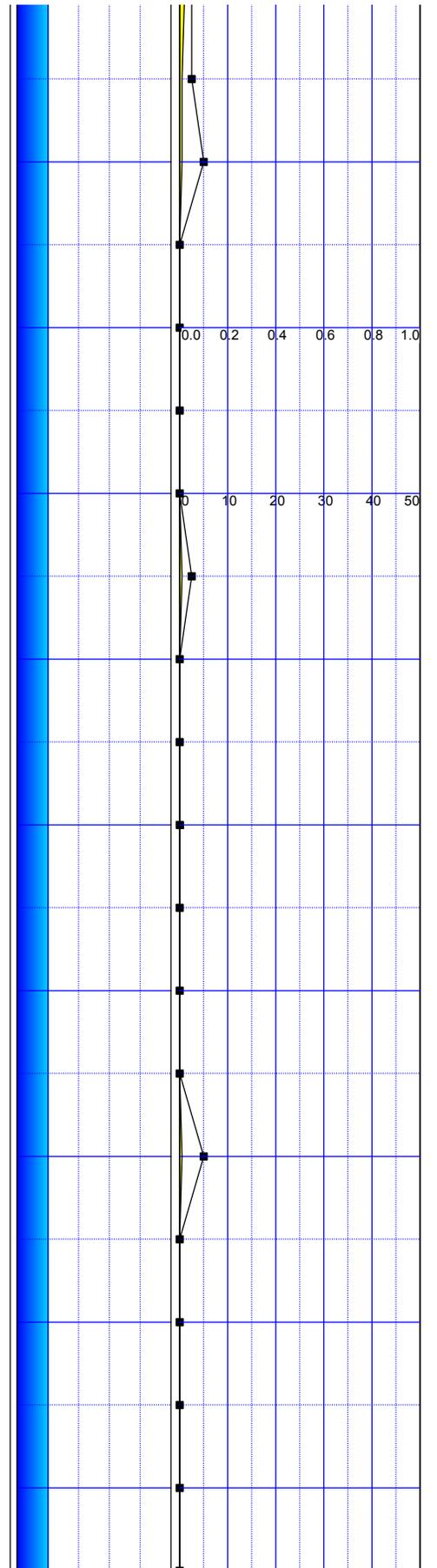
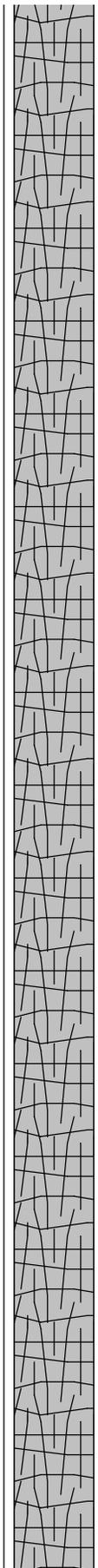
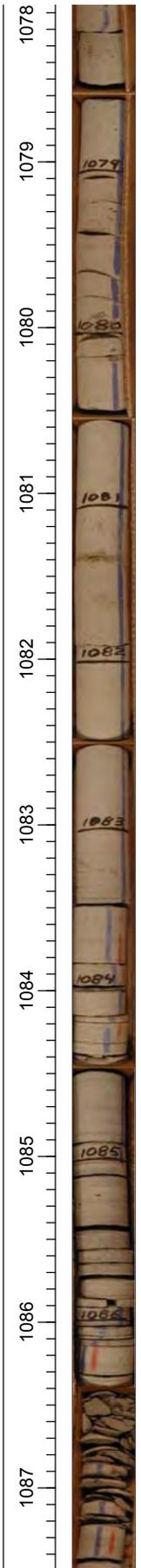


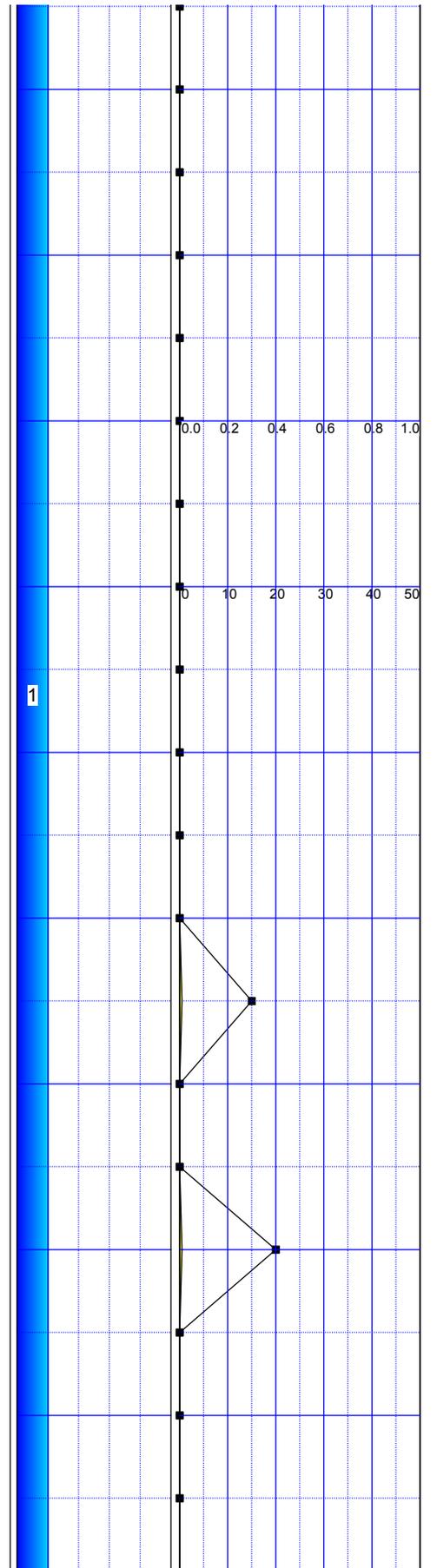
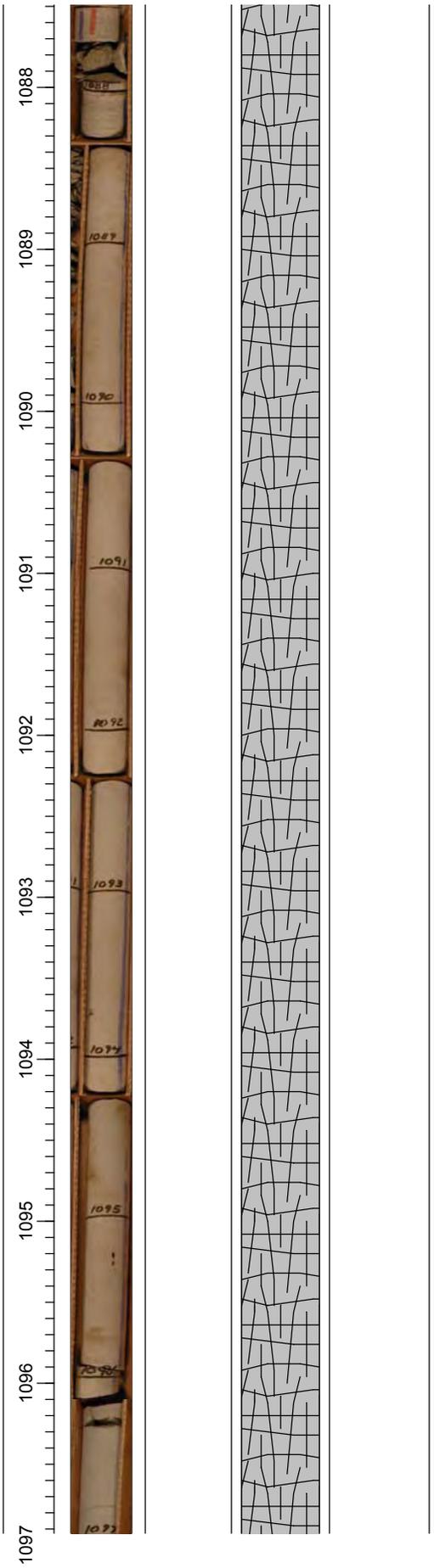


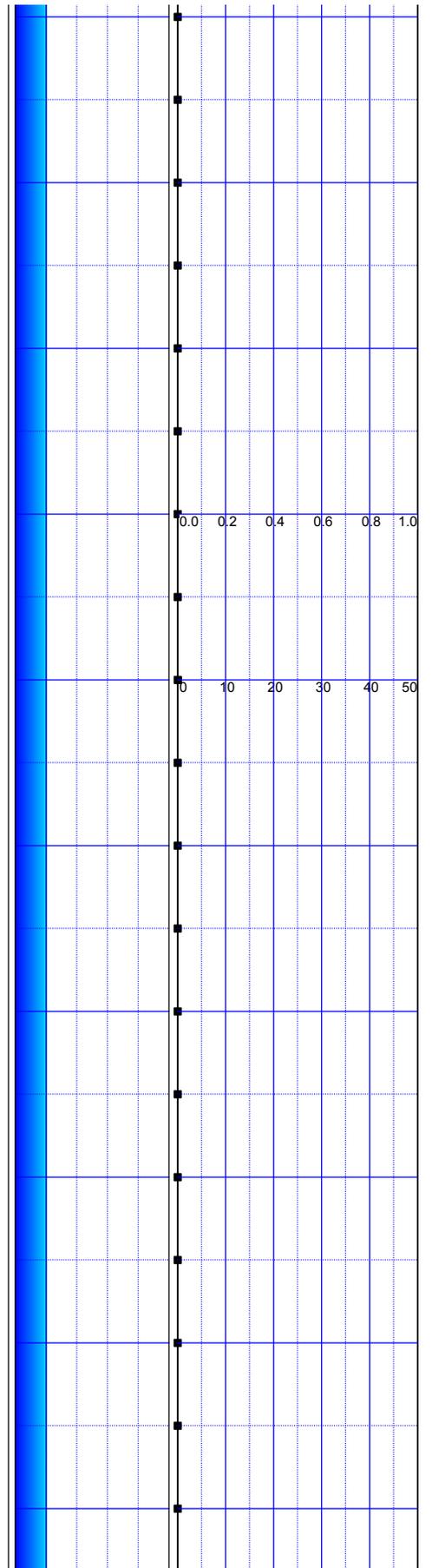
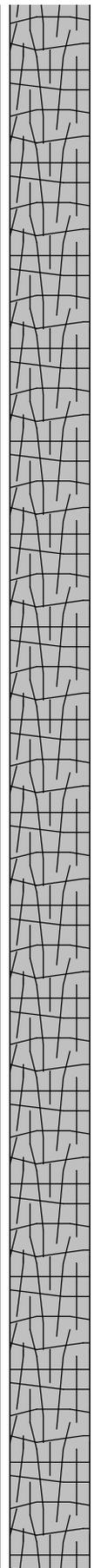
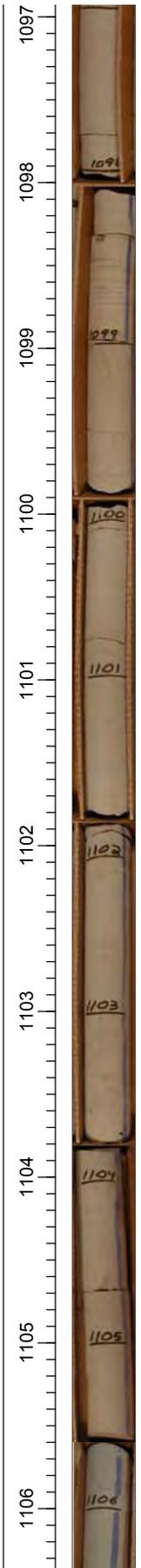
BASALT:
COLOR: Medium gray N5 at top and bottom of interval, medium light gray N6 through central, massive portion of interval. Yellowish gray 5Y 8/1 to white N9 free calcite vesicle fillings and fracture coatings throughout interval. Dark yellowish orange 10YR 6/6 vesicle fillings at 1063.9 feet and from 1068.4 to 1068.7 feet.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular to massive basalt. Sediment covered basalt rubble at top of interval. Sporadic, small vesicles in top portion arranged in irregular clumps and bands (inflation features?). Subrounded to rounded vesicles. Vesicle frequency increases at 1064.8 feet. Vesicles grade from larger sized into smaller and back to large prior to beginning of massive zone at 1069.3 feet. Massive zone continues through 1119.6 feet. Minor vesiculation present in ends of massive region. Small, high frequency vesicles present at base of interval in wavy, irregular patterns (inflation or flow patterns?).
COMPOSITION: 20% submillimeter to 3mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 2mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 2mm euhedral glomeroporphyritic green olivine phenocrysts; 50% medium gray to medium light gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: Autolith at 1063.7 feet.
ALTERATION: Blackish red 5R 2/2 at bottom of interval.

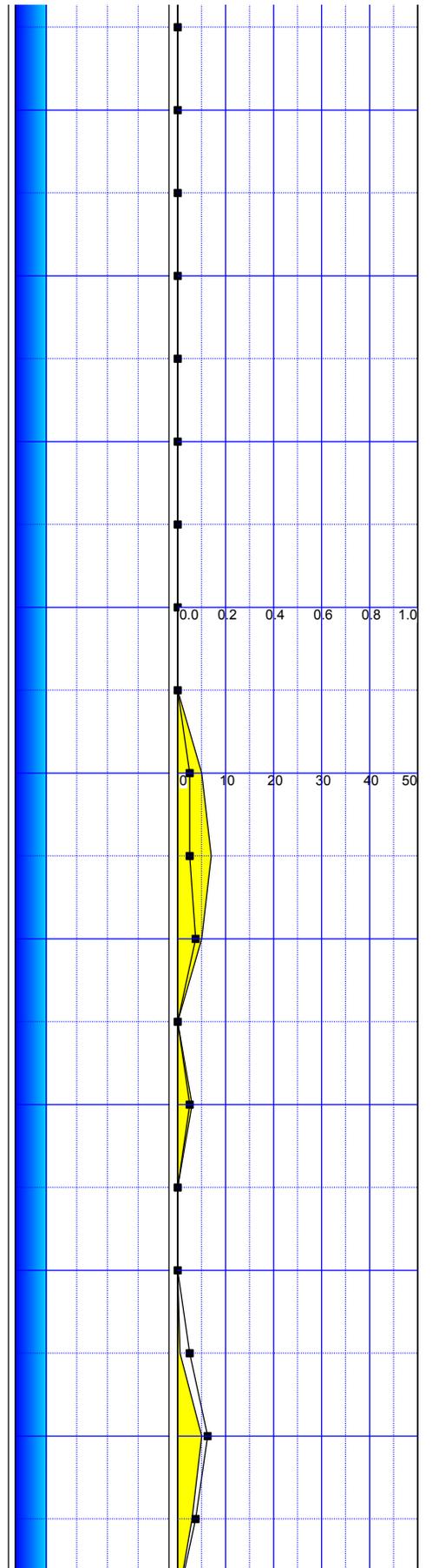
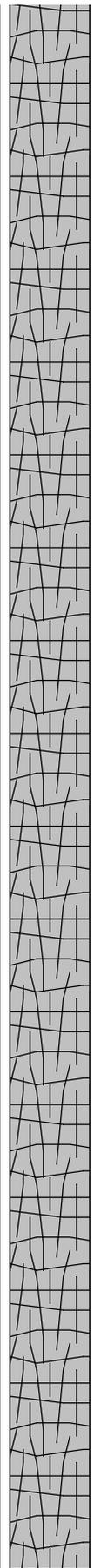
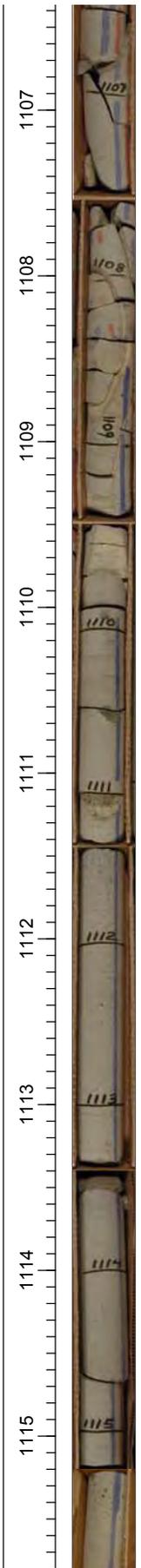


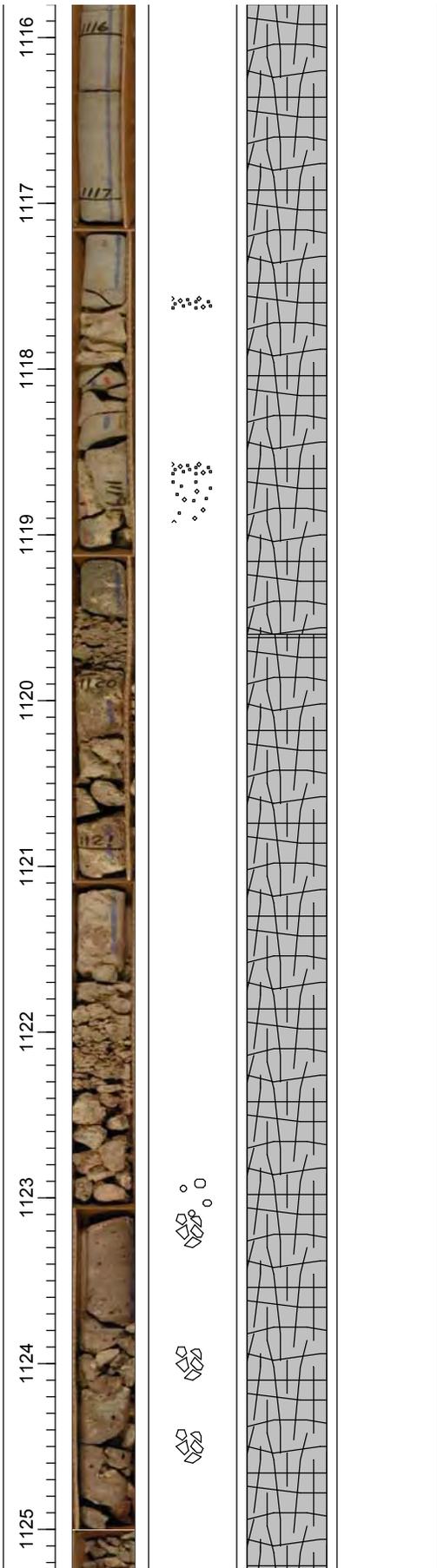












BASALT:

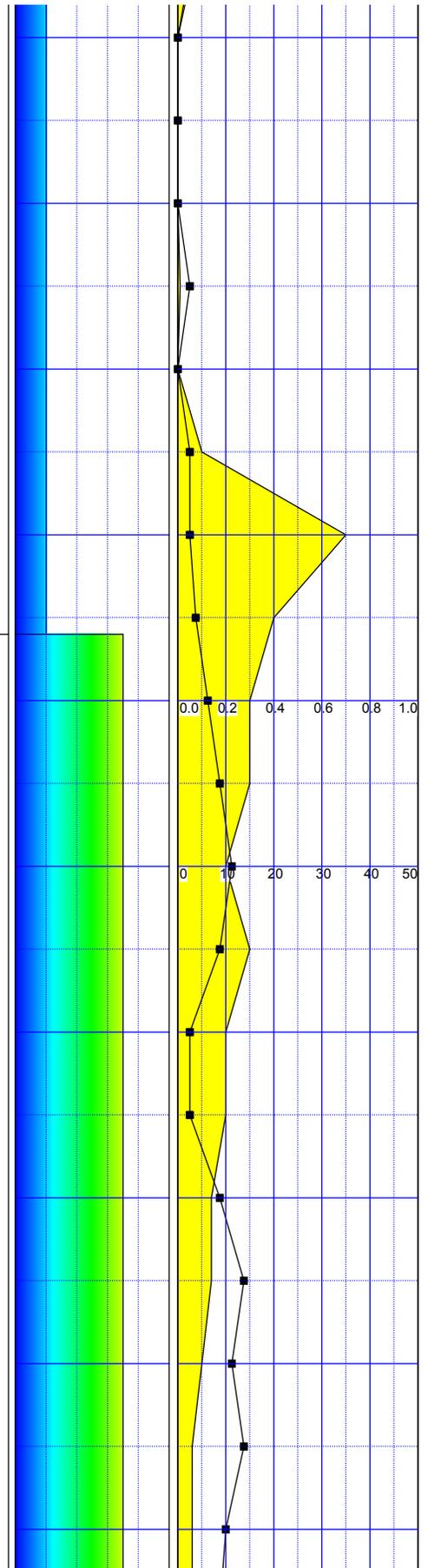
COLOR: Grayish red 5R 4/2 at top of interval surrounding medium gray N5 incorporated clast. Pale red 5R 6/2 through center of interval. Medium gray N5 present in lower portion of interval with medium dark gray N4 present at base. Very pale orange 10YR 8/2 free calcite vesicle fillings and fracture coatings throughout interval. Moderate reddish orange 10R 6/6 as sediment coatings throughout interval. Light brown 5YR 5/6 sediment also present throughout interval.

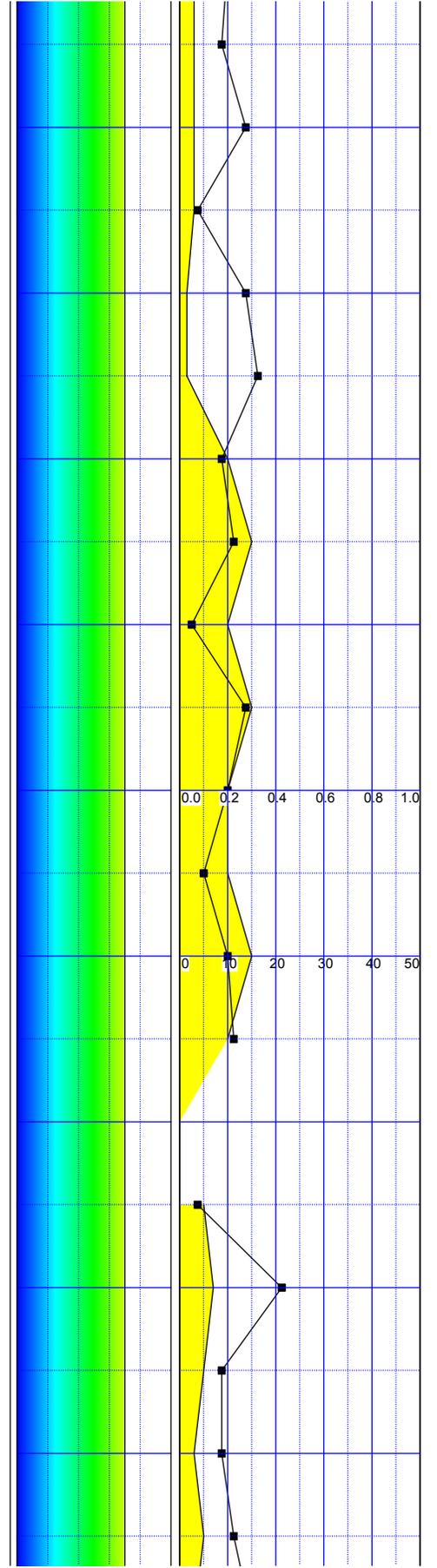
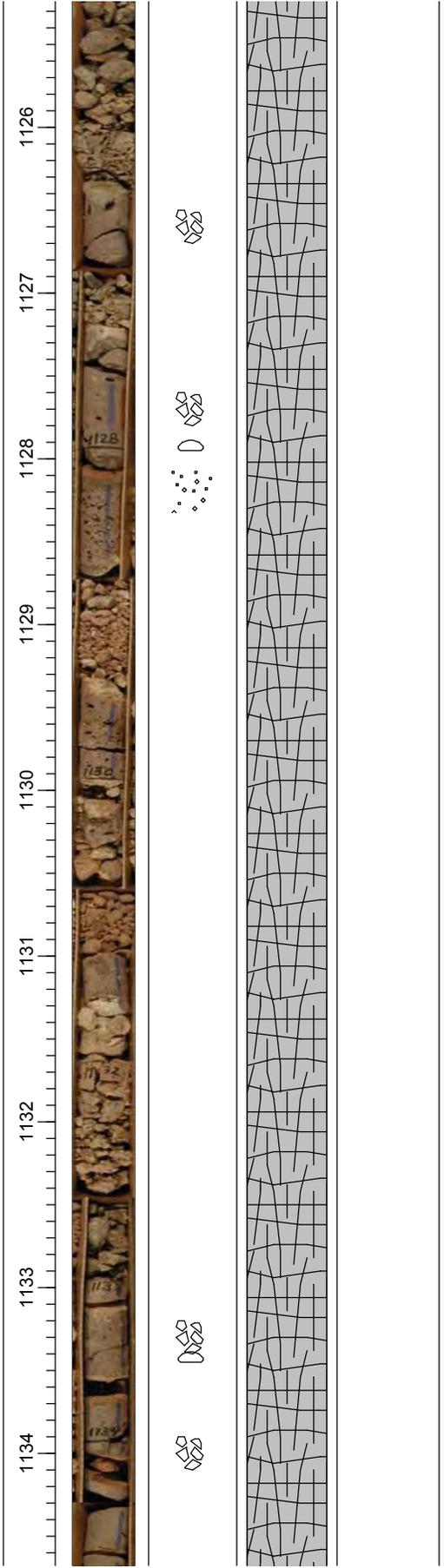
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, vesicular basalt. Sediment-covered basalt rubble at top and from 1119.6 to 1120.0, 1125.0 feet to 1126.5 feet, 1128.8 feet to 1129.4 feet, and from 1132.0 feet to 1133.0 feet. Subrounded to rounded vesicles. Irregular vesiculation--small sized vesicles distributed among medium sized--distributed in wavy patterns (inflation features?). Included basalt clast at top of interval. Medium, less frequent vesiculation to 1121.6 feet. Dogtooth spar vesicle fillings at 1120.1 feet. Sediment covered rubble from 1121.6 feet to 1122.2 feet, grading into massive zone with minor, large vesicles to 1128.1 feet. Vesicles resume from 1128.1 feet to 1131.6 feet. Massive texture resumes from 1131.6 feet to 1142.9 feet. Irregular, wavy bands of varying sized vesicles from 1142.9 feet through end of interval.

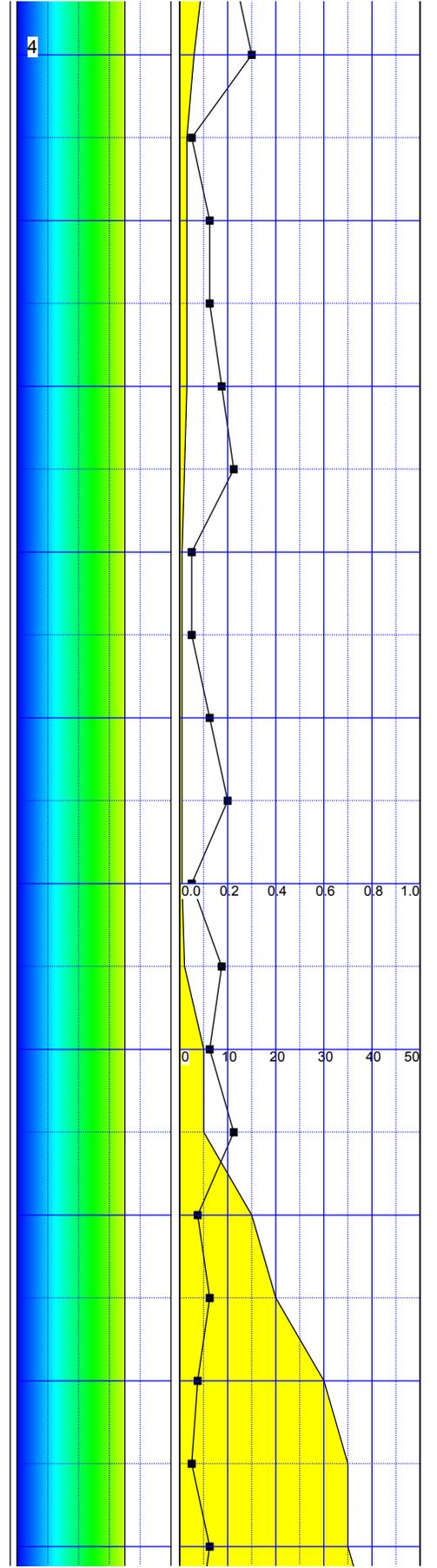
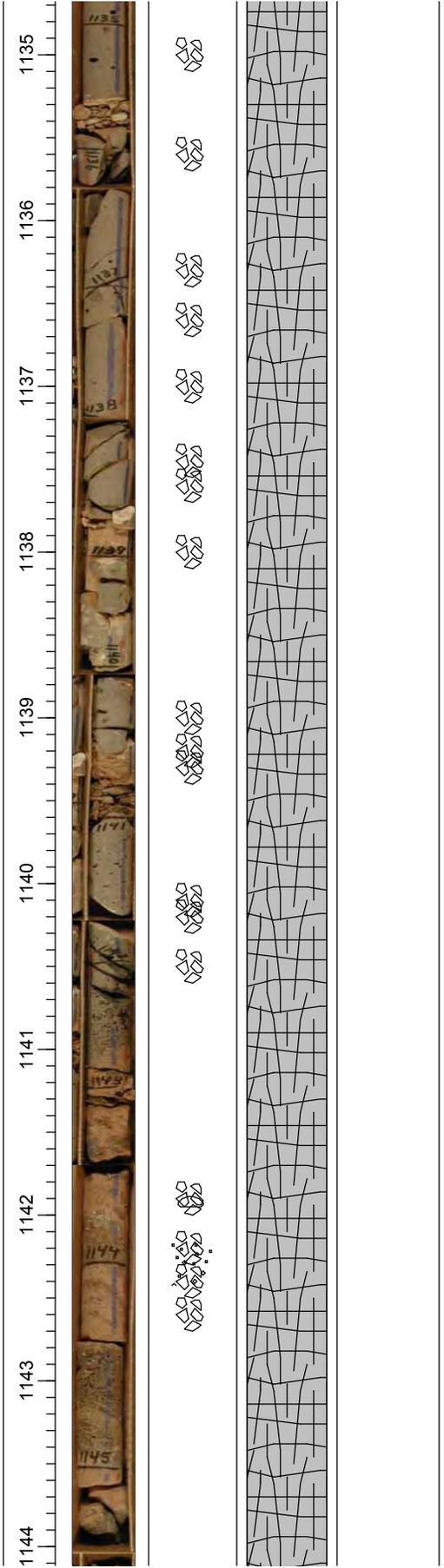
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 4mm glomeroporphyrritic globs of euhedral green olivine phenocrysts; 50% grayish red to medium gray to medium dark gray aphanitic groundmass.

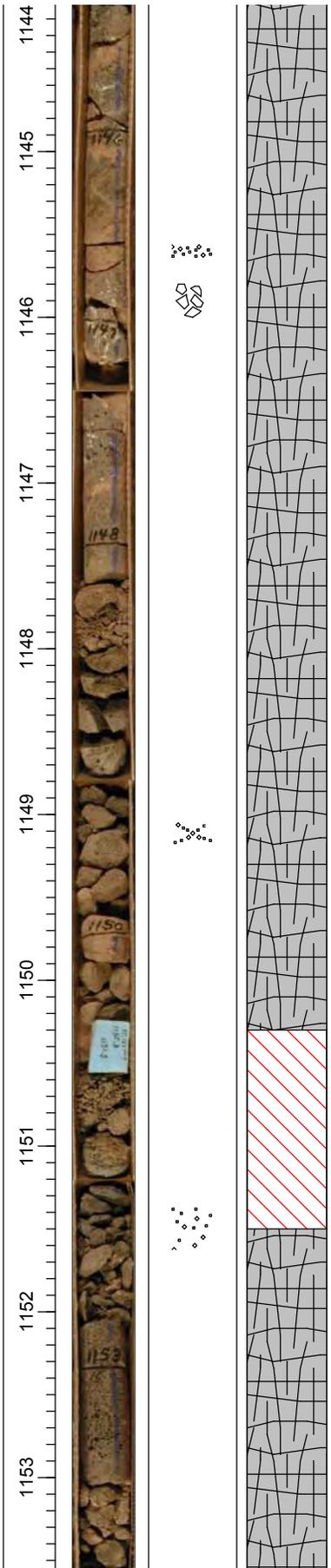
XENOLITHS/AUTOLITHS: Autoliths observed. See structure field for complete listing.

ALTERATION: Moderate reddish orange 10R 6/6 rubble staining from 1124.6 feet to 1125.3 feet, on fracture at 1128.1 feet.



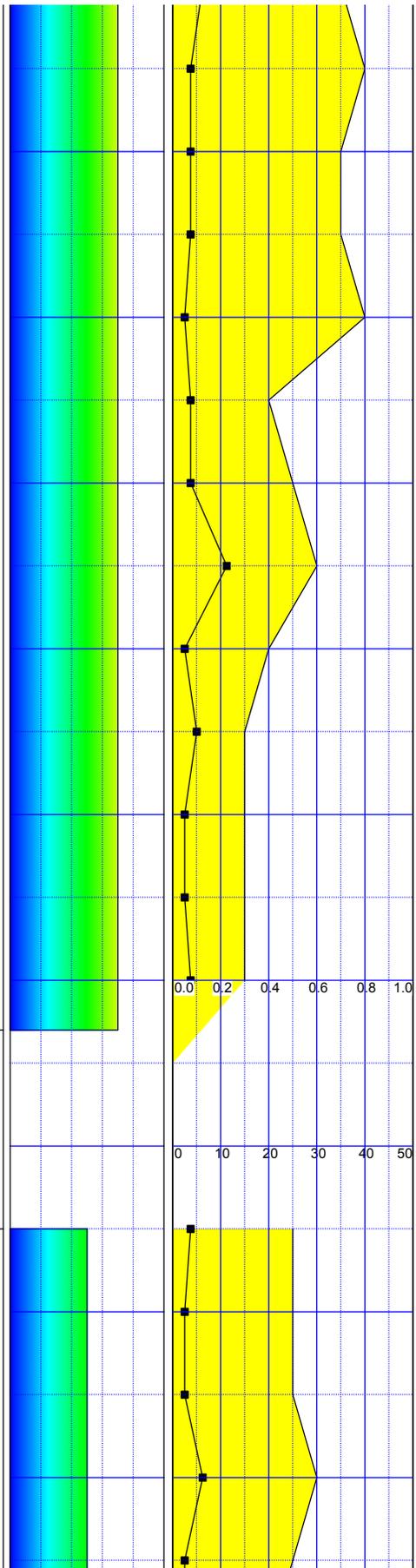


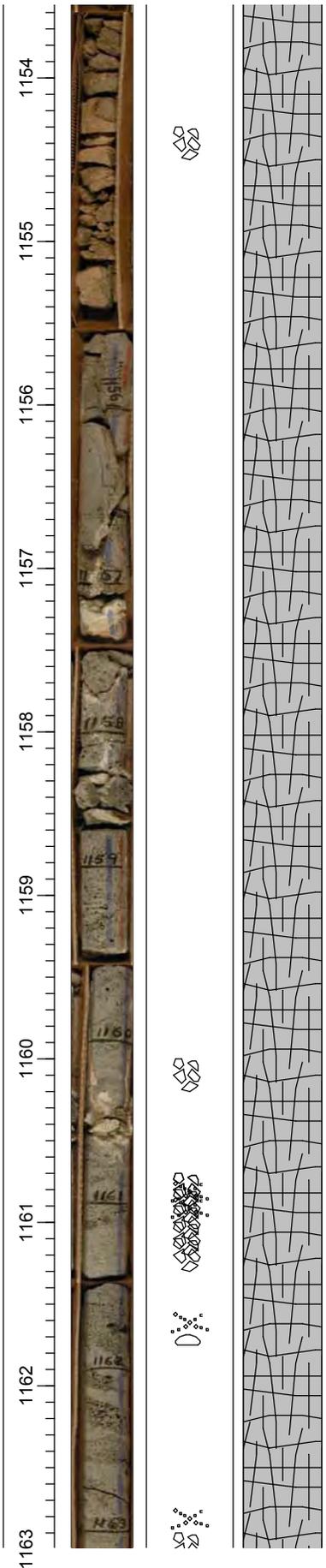




MISSING INTERVAL:
Interval not recovered

BASALT:
 COLOR: Medium dark gray N4 at top and through center. Brownish gray 5YR 4/1 in upper middle of interval. Grayish orange 10YR 7/4 sediment (without calcite cement) as fracture and vesicle fillings. Very pale orange 10YR 8/2 sandstone (calcite cement). White N9 and very pale orange 10YR 8/2 free calcite as vesicle fillings and fracture coatings throughout interval. Medium dark gray N4 at base of interval.
 TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular to massive basalt. Sediment covered basalt rubble from top of interval to 1152.8 feet. Uniform distribution of subrounded to rounded, small and medium sized vesicles through 1156.1 feet. Rubbly basalt from 1153.5 feet to



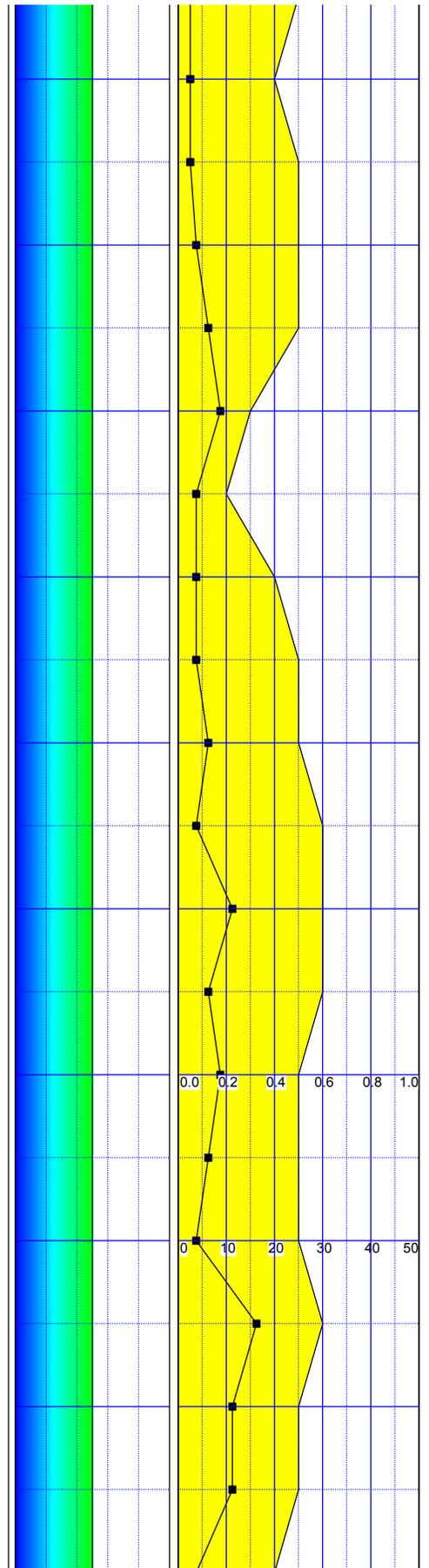


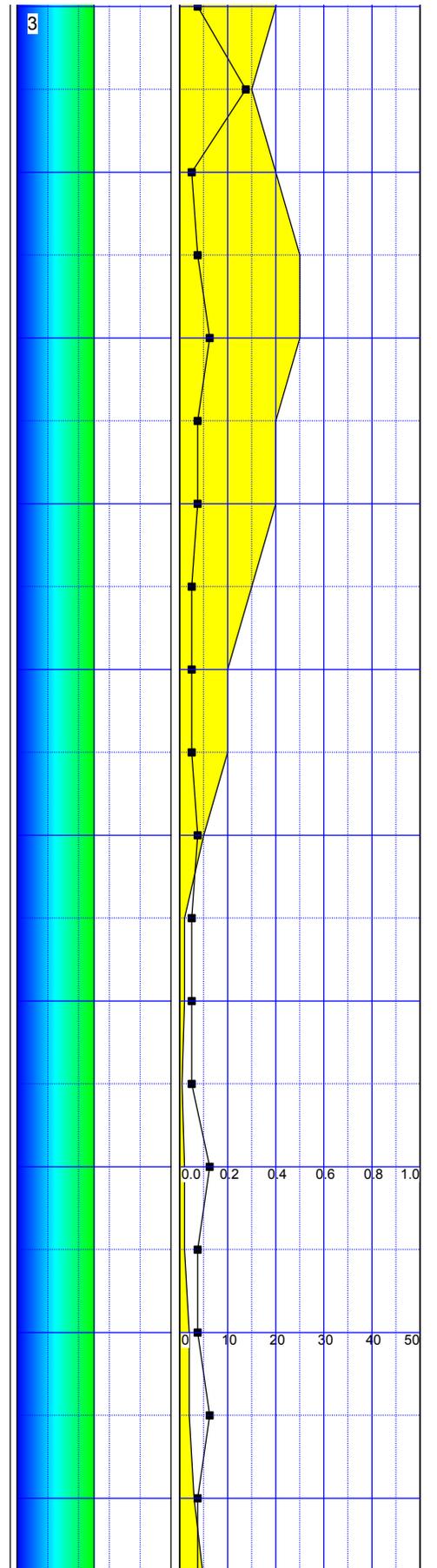
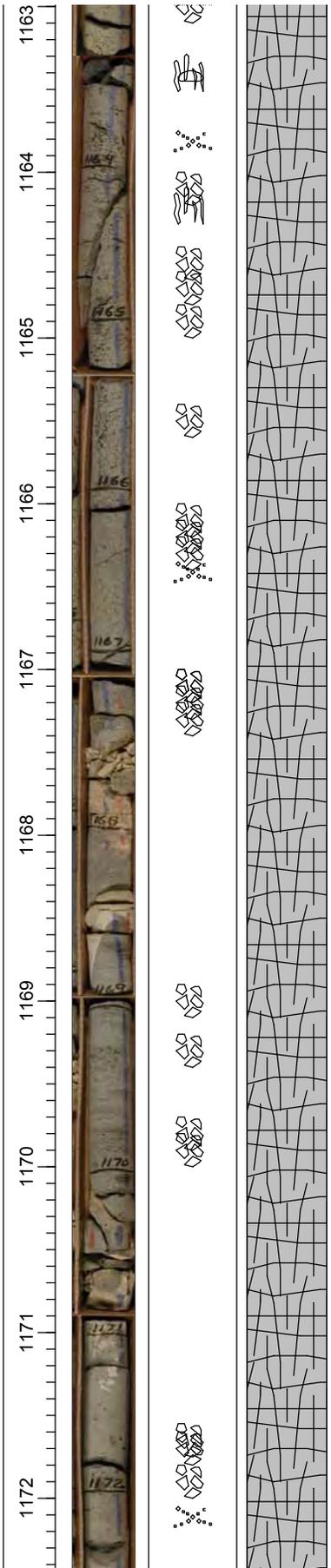
1155.5 feet. Sandstone (non-calcareous cement) fracture filling located at 1156.0 feet, present between included basalt clast and flow. Calcite-cemented sandstone fracture filling from 1168.3 feet to 1170.1 feet. Dogtooth spar fracture filling at 1157.0 feet. Irregularly sized vesicles distributed in wavy bands (inflation features?) Very minor diktytaxitic texture present as glebs and bands throughout interval. Massive portion of interval from 1171.0 feet to 1173.6 feet with minor vesiculation throughout. Vesicles increase in size and frequency through end of interval.

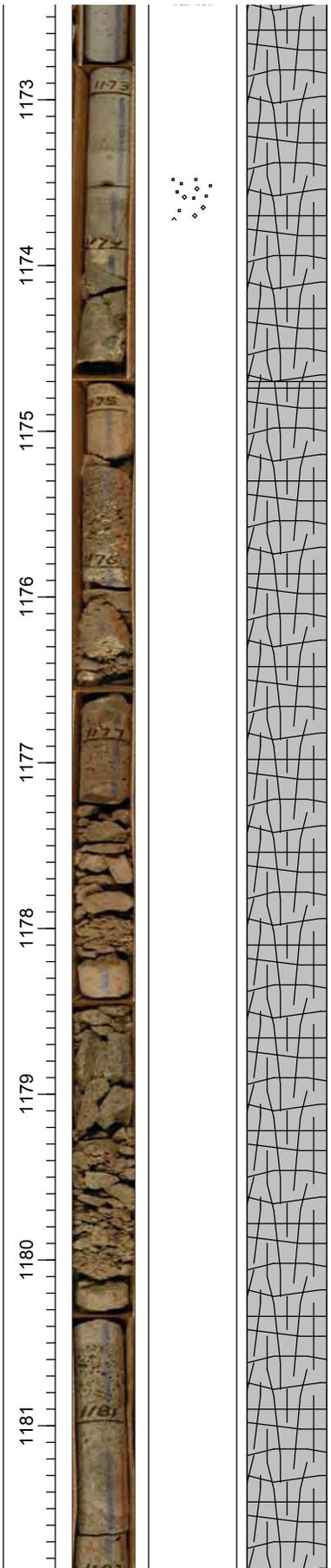
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 3mm glomeroporphyritic globs of euhedral green olivine phenocrysts; 50% medium dark gray to brownish gray aphanitic groundmass.

XENOLITHS/AUTOLITHS: Incorporated clast at 1154.4 feet. Autoliths observed throughout interval.

ALTERATION: Red rims observed on olivine phenocrysts.







BASALT:
COLOR: Pale red 5R 6/2 at top, grading into light brownish gray 5YR 6/1 through center of interval. Medium gray N5 at base portion of interval. Very pale orange 10YR 8/2 non-calcareous sediment coating on fractures.
TEXTURE: Porphyritic-aphanitic, glomeroporphyritic granular, subophitic, diktytaxitic, vesicular basalt. High concentrations of small-sized vesicles grading into low concentrations of medium sized vesicles from 1175.9 feet to 1176.7 feet. Irregular distribution of vesicles with varying sizes with scattered vesicle bands and planes through center of interval. Vesicle frequency decreases towards end of interval with vesicular flow features present at base of interval. Sediment covered basalt from 1177.4 feet to 1186.4 feet and at bottom.
COMPOSITION: 20% submillimeter to 2mm subhedral to euhedral acicular white plagioclase phenocrysts; 20% submillimeter to 1mm subhedral to euhedral black pyroxene phenocrysts; 10% submillimeter to 4mm euhedral glomeroporphyritic green olivine phenocrysts; 50% pale red to light brownish gray to medium gray aphanitic groundmass.
XENOLITHS/AUTOLITHS: None observed.
ALTERATION: Moderate reddish orange 10R 6/6 bands at 1174.9 feet and 1175.0 feet.

