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-129

Logged By: Reuben Johnson, Nov 2003

Selected Aliases:

USGS Site ID: 4330361113002701
Contractor Well ID: N/A

Drilling Agency: USGS
Year Drilled: 2001
Names of Drillers: Matson & Gilbert
Well Status: Water level monitoring
Total Depth of Hole (ft): 779.1

Total Core Recovered (ft): 769.9
Beginning Depth (ft): 9.2
Ending Depth (ft): 779.1
[X] Continuous Recovery
[ ] Selected Intervals Recovered
Total # of Core Boxes: 150

County & State: Butte Co., ID
Quadrangle Name: Arco Hills SE
Lat / Lng: 43°30' 36.52", 113°00'27.45" NAD27
Tns / Rng / Sec: T02N, R29E, Sec 09, CDA2
UTM Coordinates: N 672940.259 E 276899.939 NAD 27
Altitude (ft): 5,026.19 NGVD29

Notes:

Core Geological Profile

Lithologic Patterns
- Basalts
- Rhyolites
- Sedimentary Rock

Soil Patterns (See Unified Soil Classification System.)
- Gravels - clean
- Gravels with fines
- Sands - clean
- Sands with fines
- Silts and clays

Intervals in Absentia
- Surficial material
- Natural void
- Interval not cored
- Missing interval

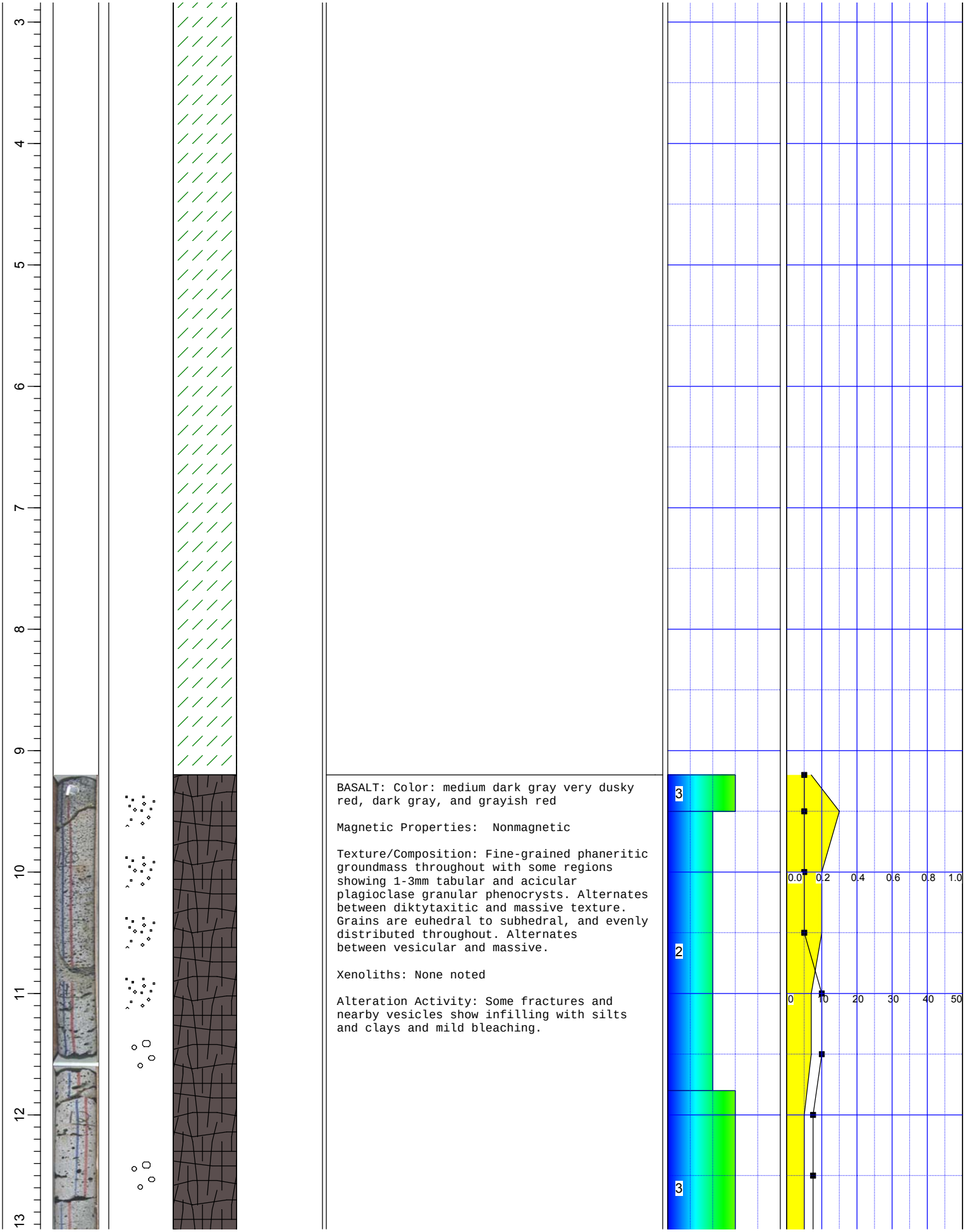
Igneous and Sedimentary Structure Symbols
- Vesicle zone
- Large vesicles
- Vesicle planes
- Mega vesicles
- Vesicle Cylinders
- Pipe vesicles
- Pillows
- Vesicle Sheet
- Flow/Mold
- Spatter feature
- Ripple marks
- Mud cracks
- Imbricated bedding
- Graded bedding
- Cross bedding

Soil Structure Symbols
- Structureless - Single Grained
- Structureless - Massive
- Platy
- Granular
- Blocky
- Prismatic
- Columnar

Depth (feet & tenths)	Core Photo	Igneous, Soil and Sed Structures	Lithology	Description: Miscellaneous Text	Description: Lithologic Description
0					SURFICIAL MATERIAL: Not Cored. Modern unconsolidated sands, silts and clays.

Fracture Frequency (See fracture classification on website.)
0 1 2 3 4 5

Vesicle Characteristics
Mean Size (in)
0 0.2 0.4 0.6 0.8 1.0
Volume Percentage
0 10 20 30 40 50



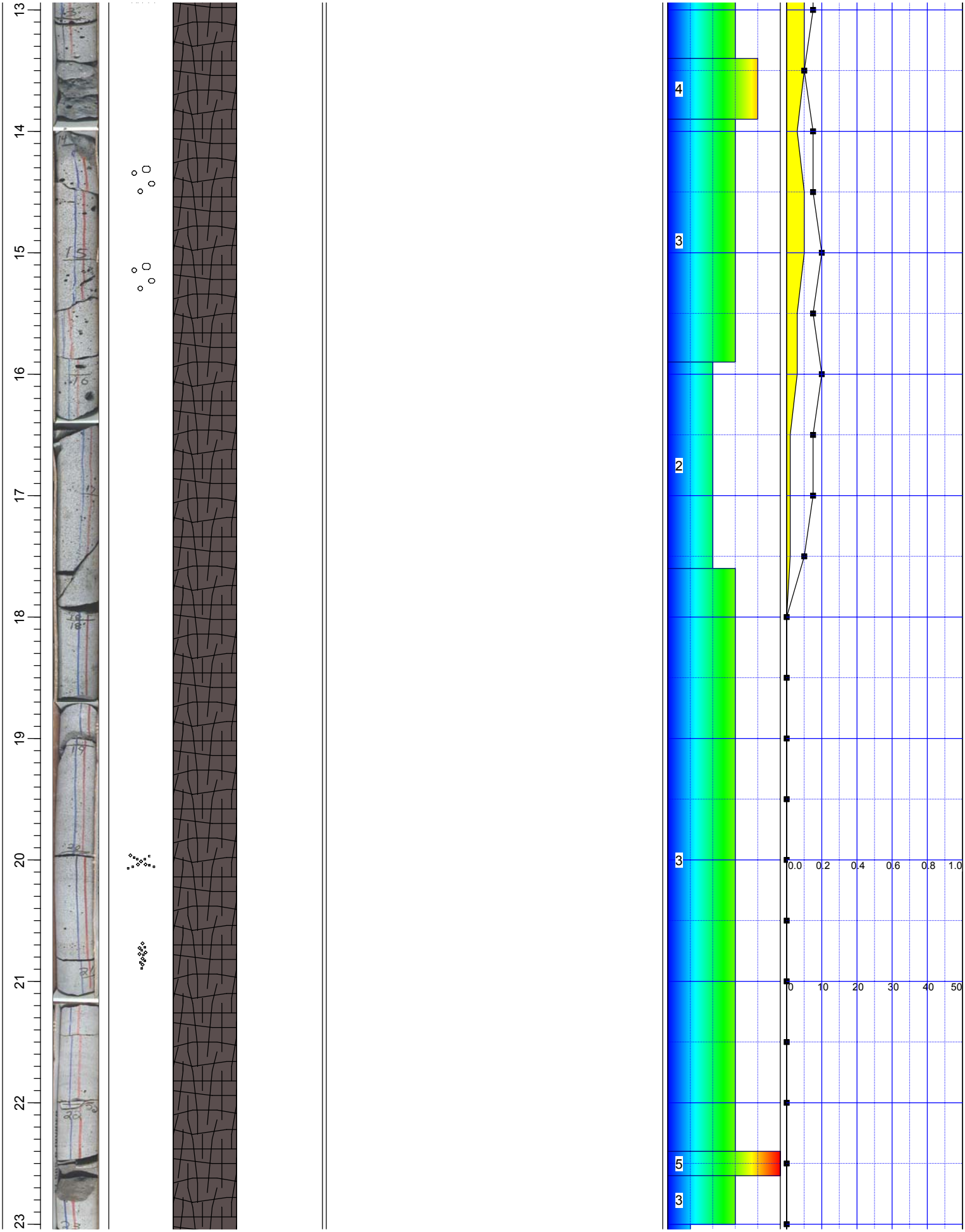
BASALT: Color: medium dark gray very dusky red, dark gray, and grayish red

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

Alteration Activity: Some fractures and nearby vesicles show infilling with silts and clays and mild bleaching.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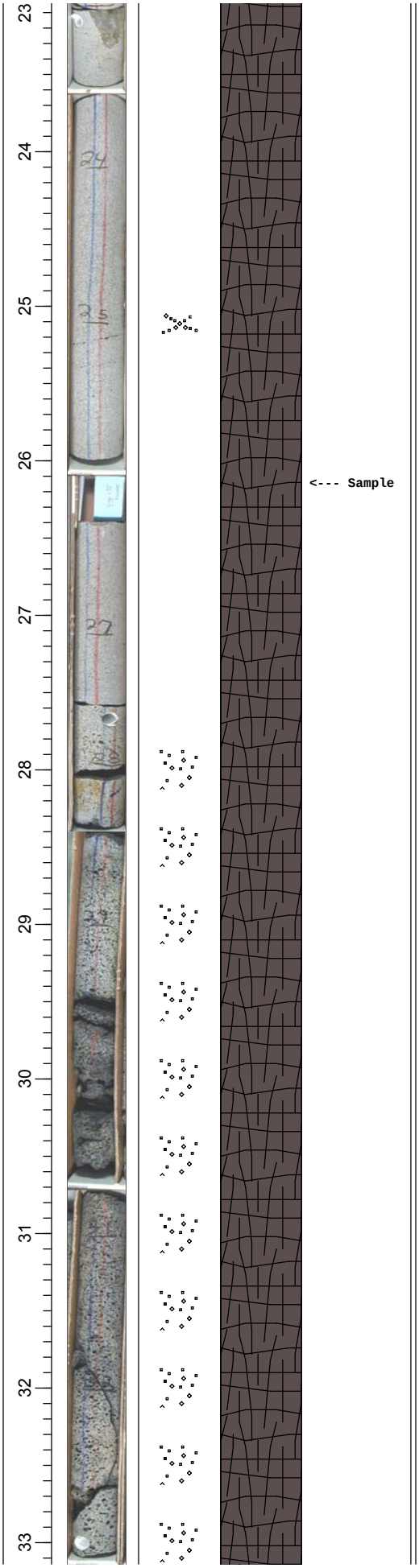
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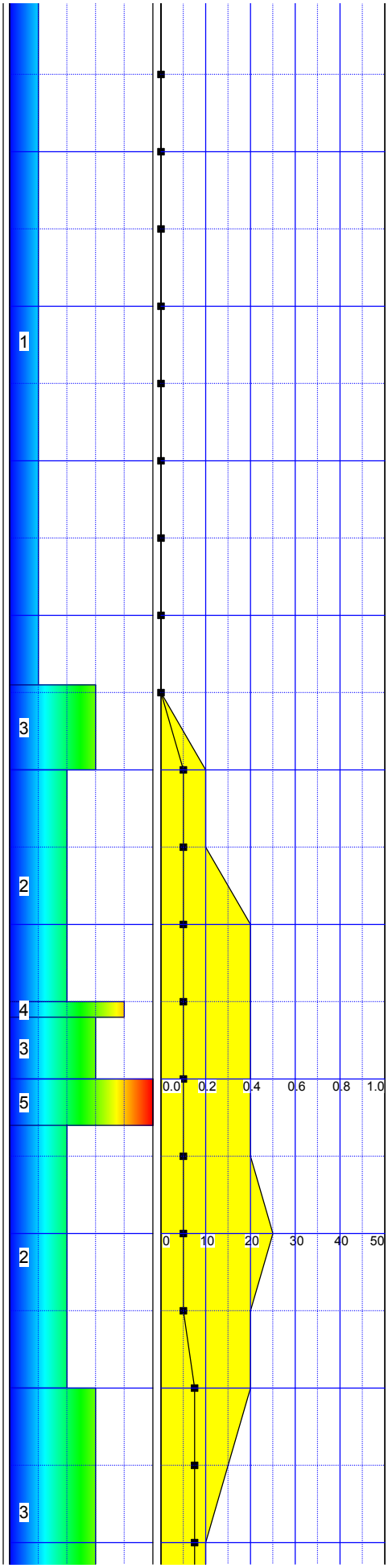
<--- Sample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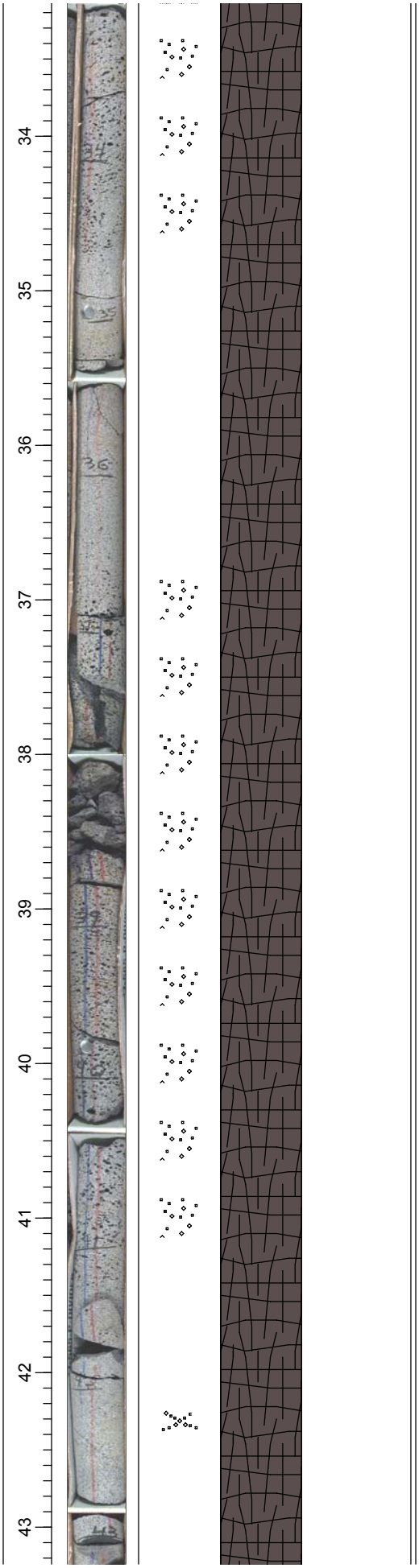
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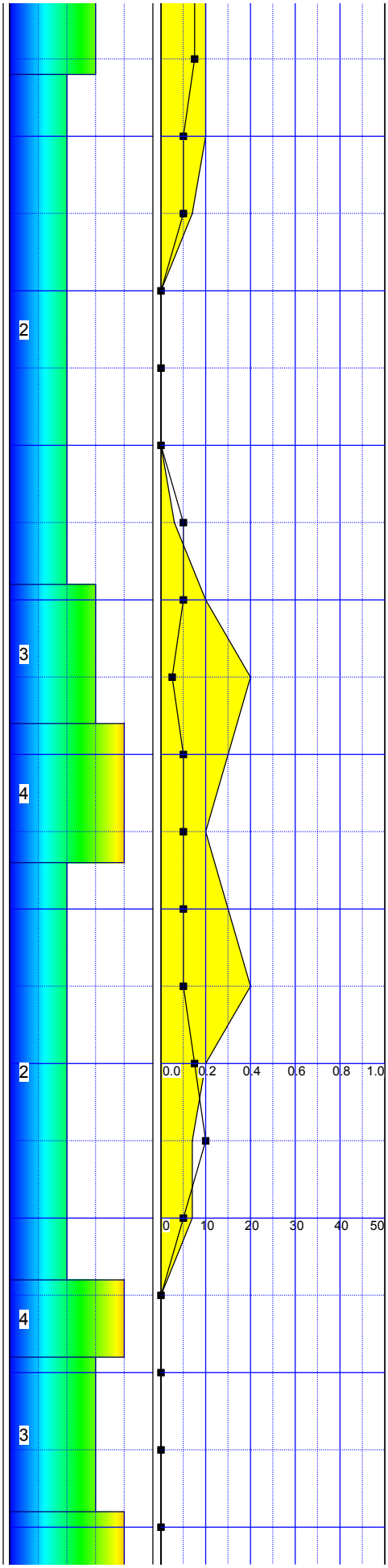
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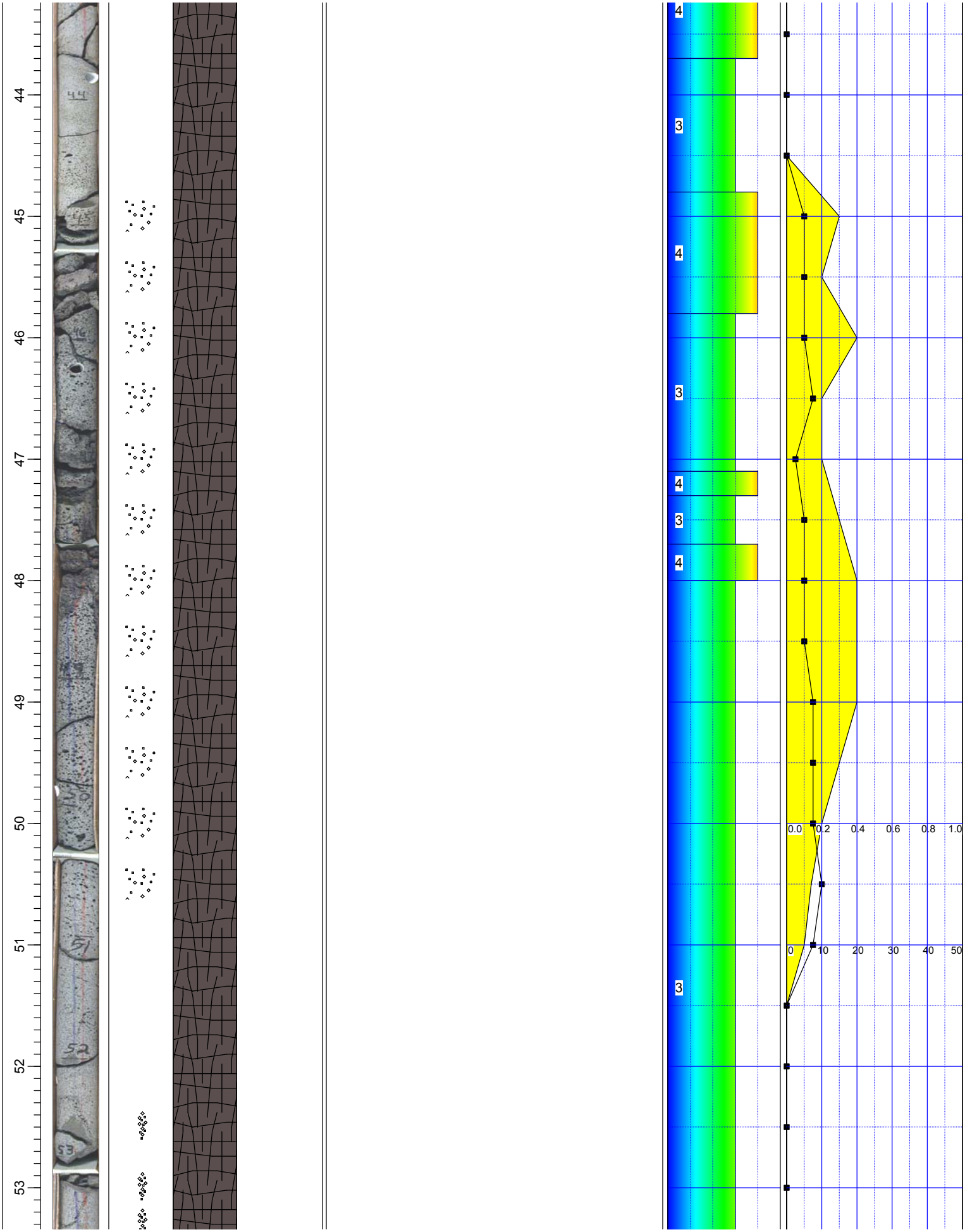
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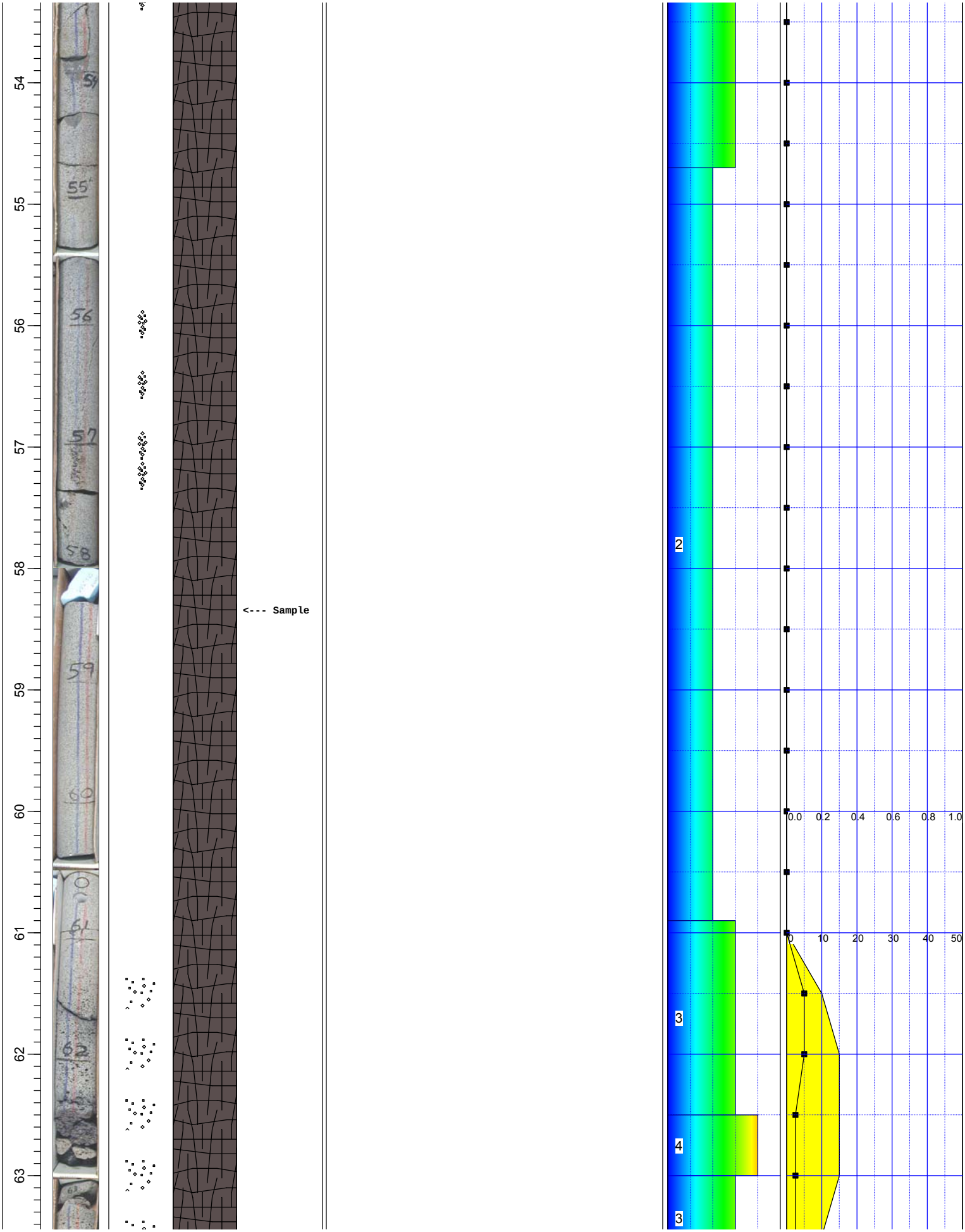
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<--- Sample
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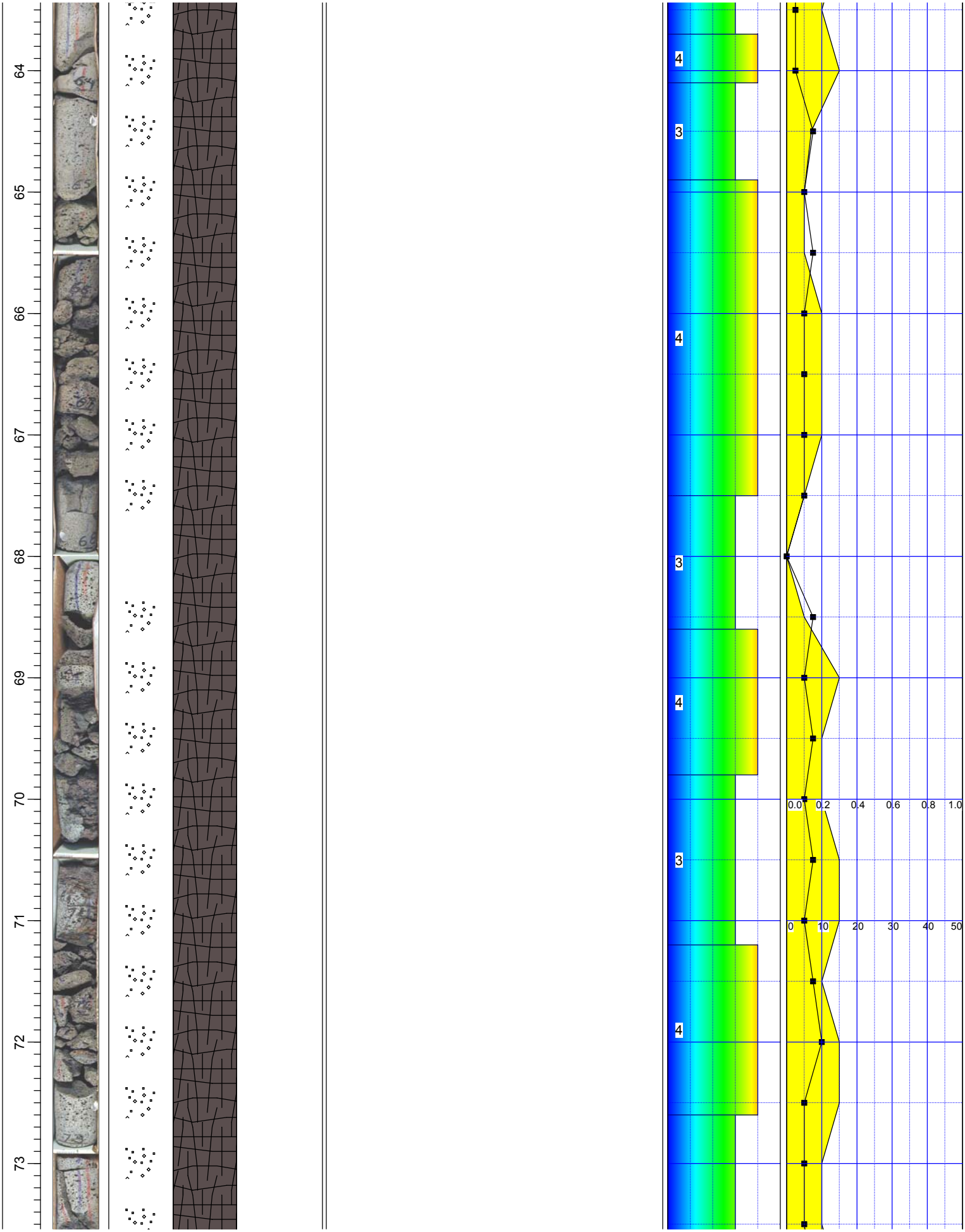
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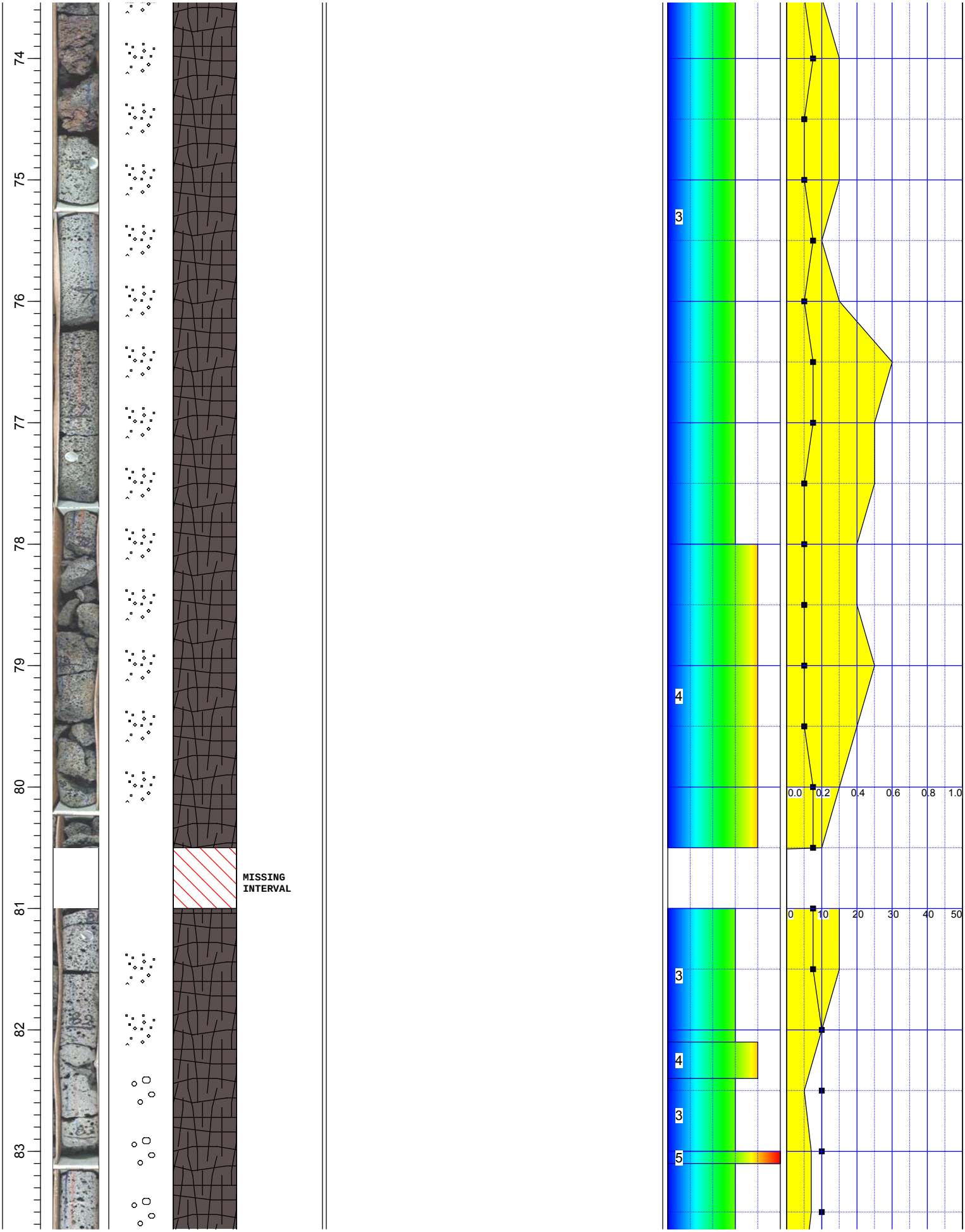
74
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76
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81
82
83
MISSING
INTERVAL
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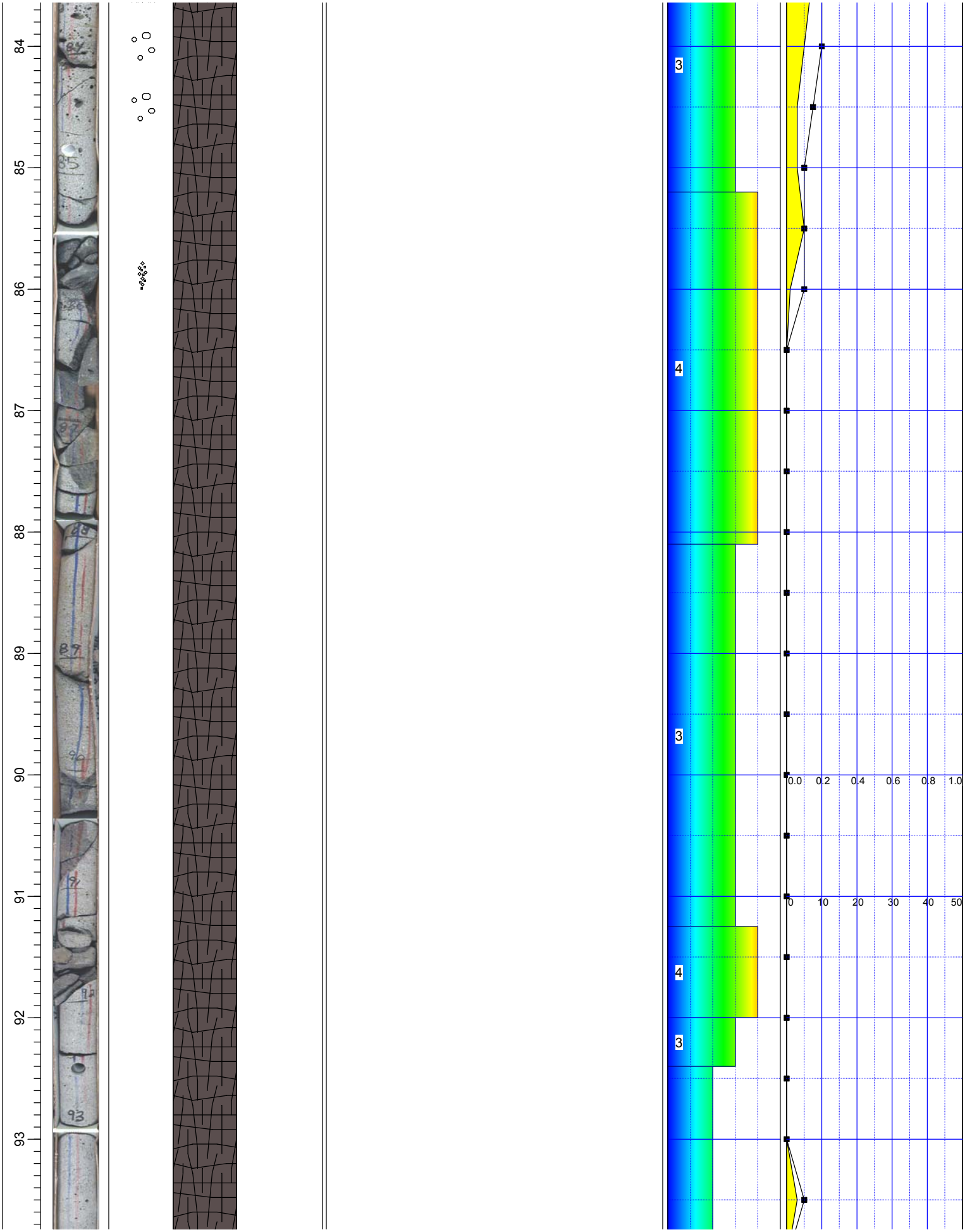
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93
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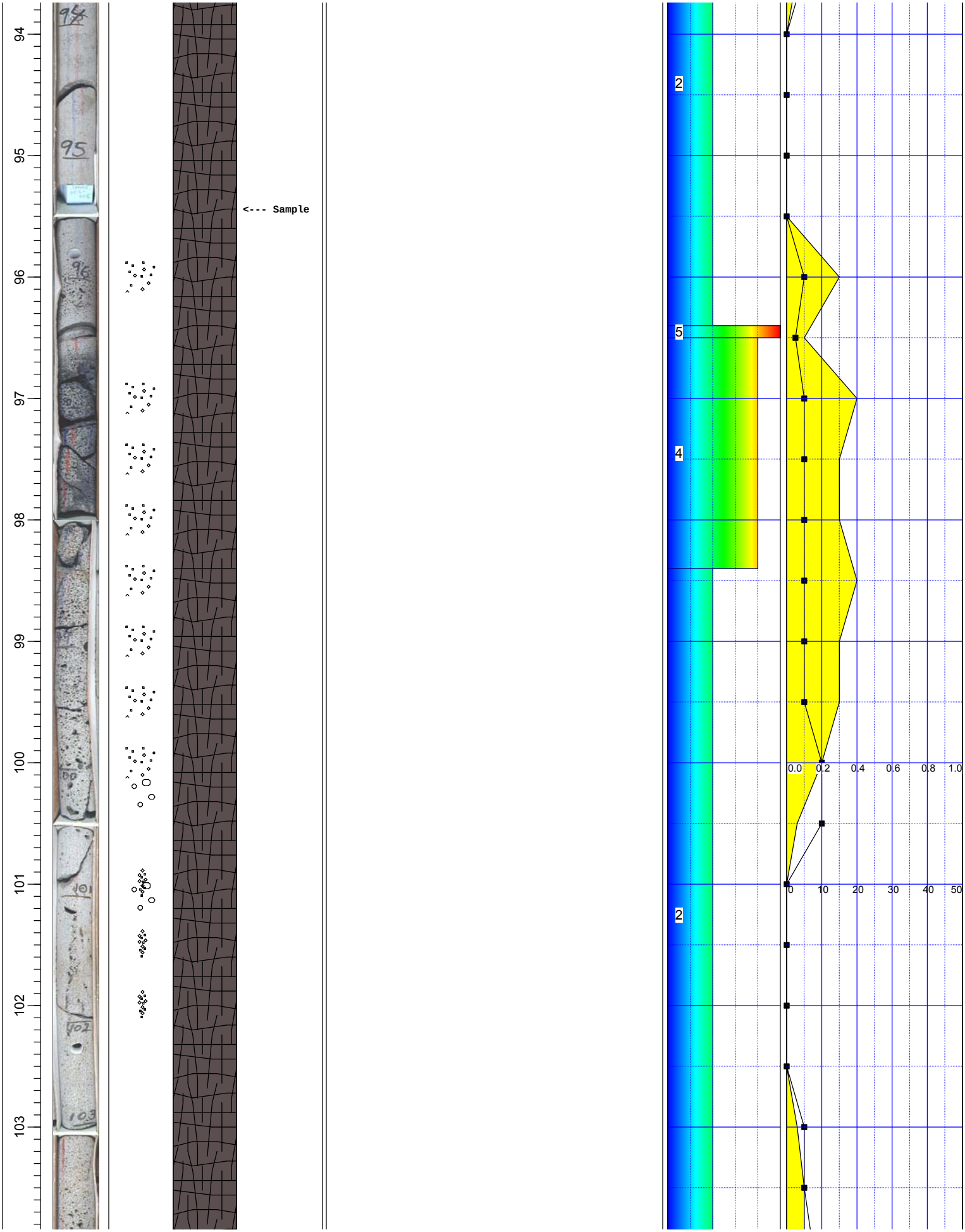
94
95
96
97
98
99
100
101
102
103
<--- Sample
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0.6
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1.0
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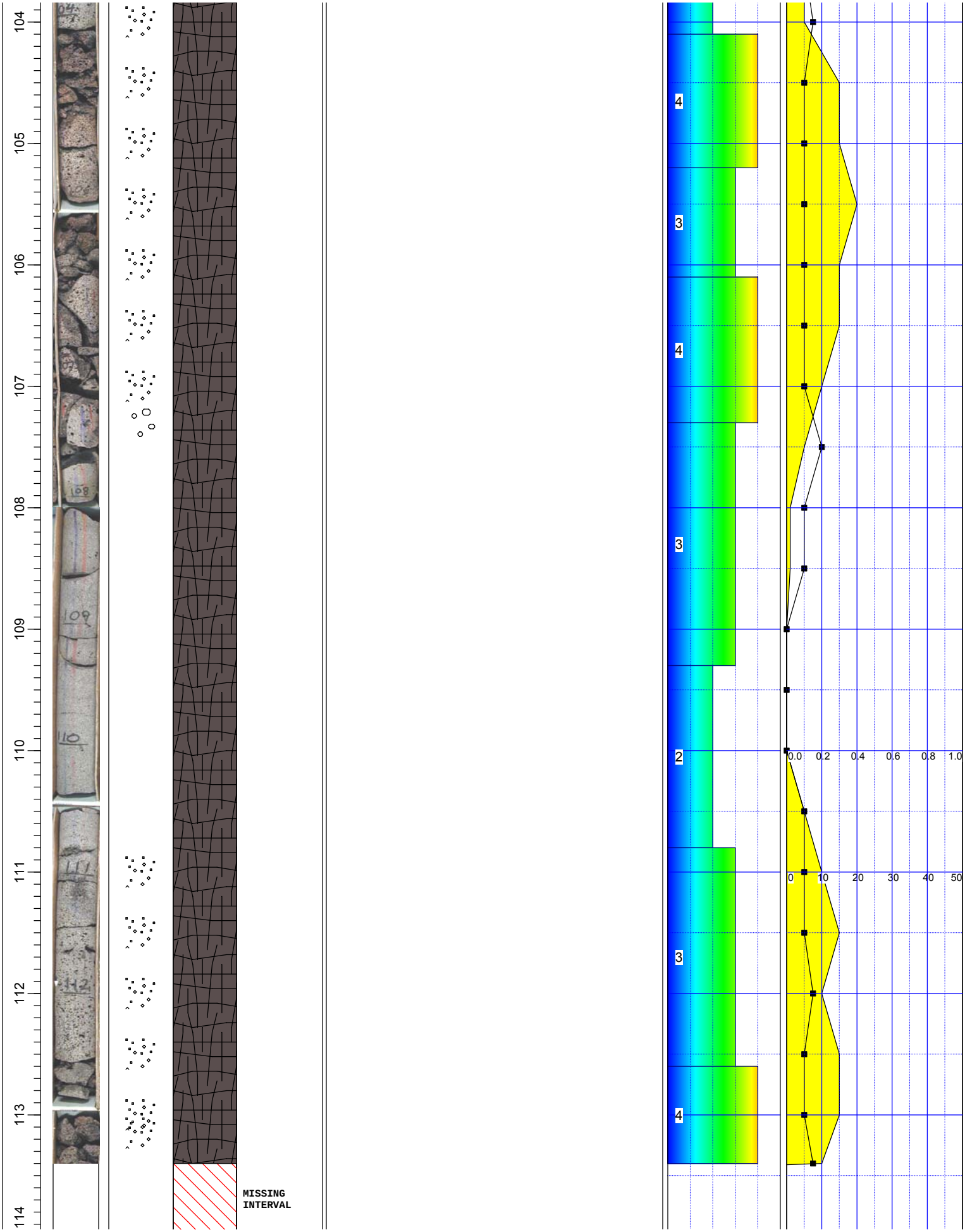
104
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106
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110
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112
113
114
MISSING
INTERVAL
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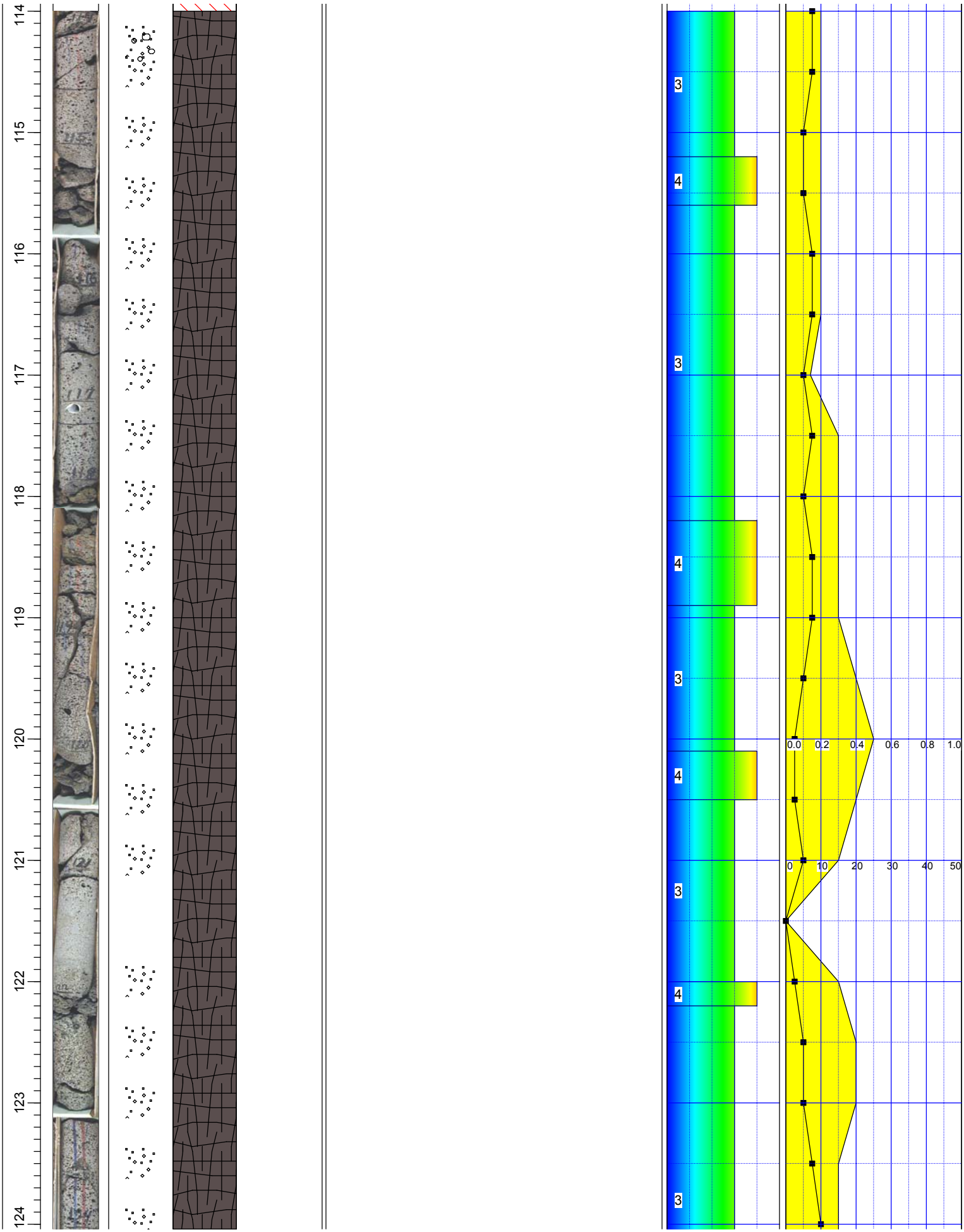
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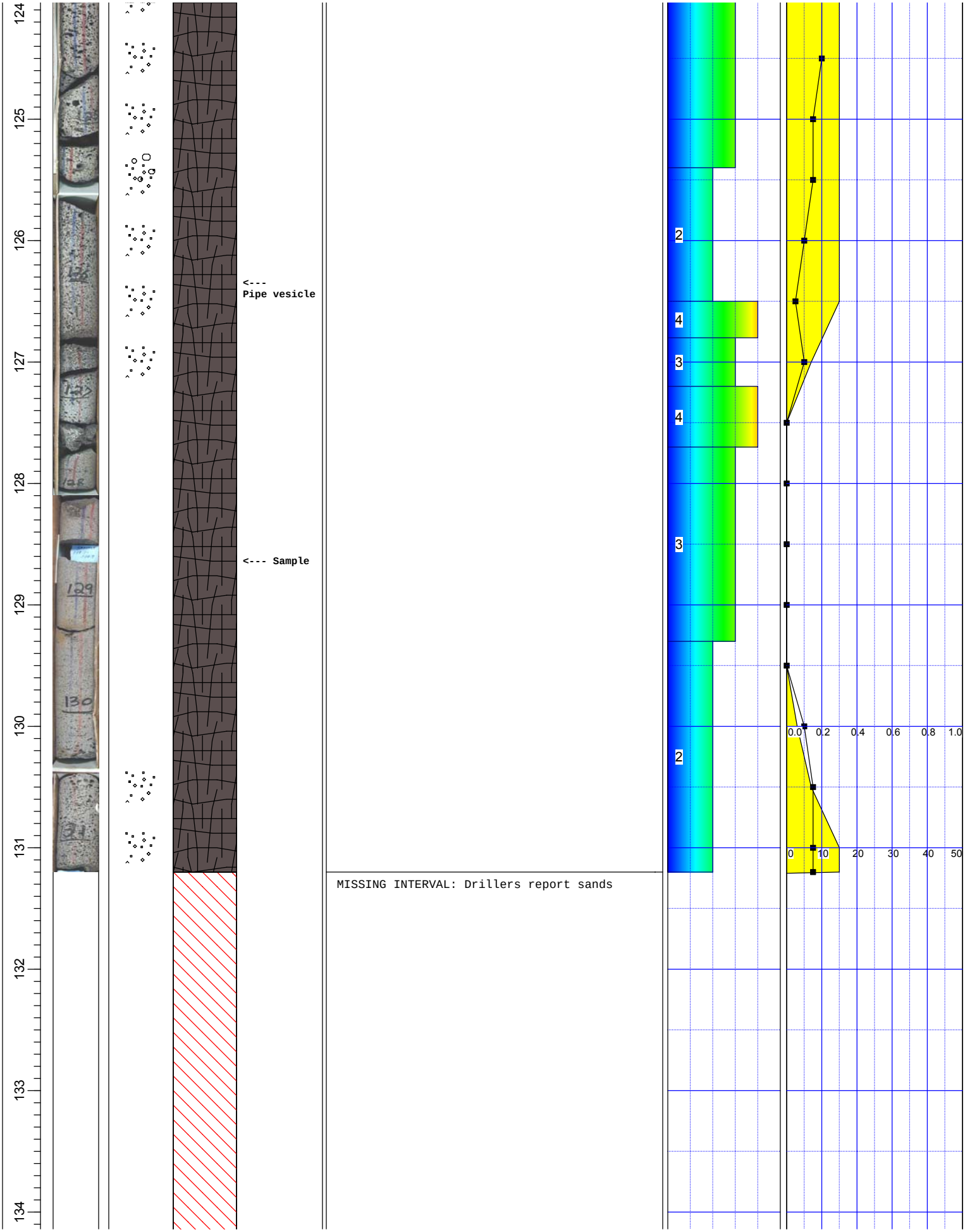
124
125
126
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128
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131
132
133
134
<--- Pipe vesicle
<--- Sample
MISSING INTERVAL: Drillers report sands
2
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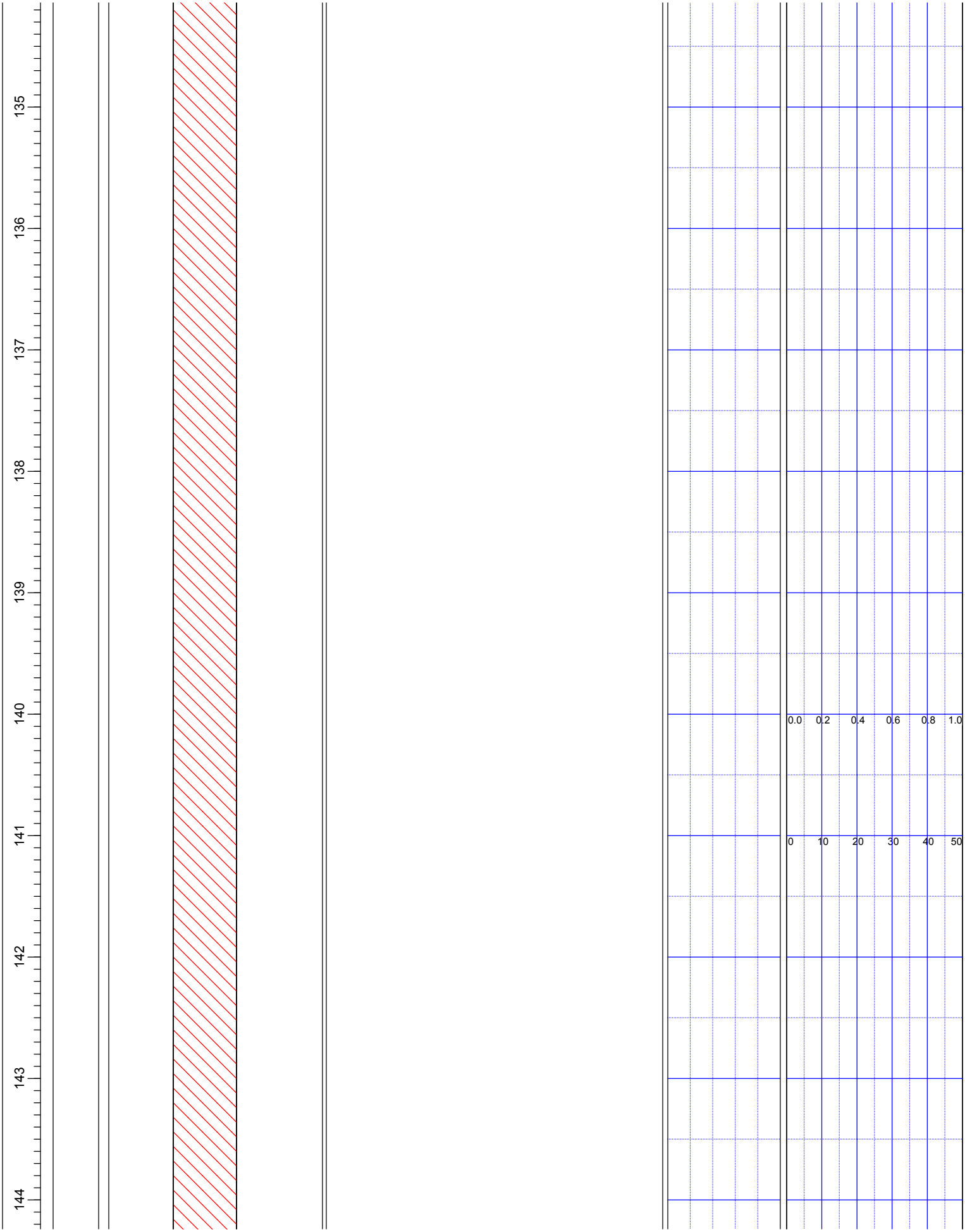
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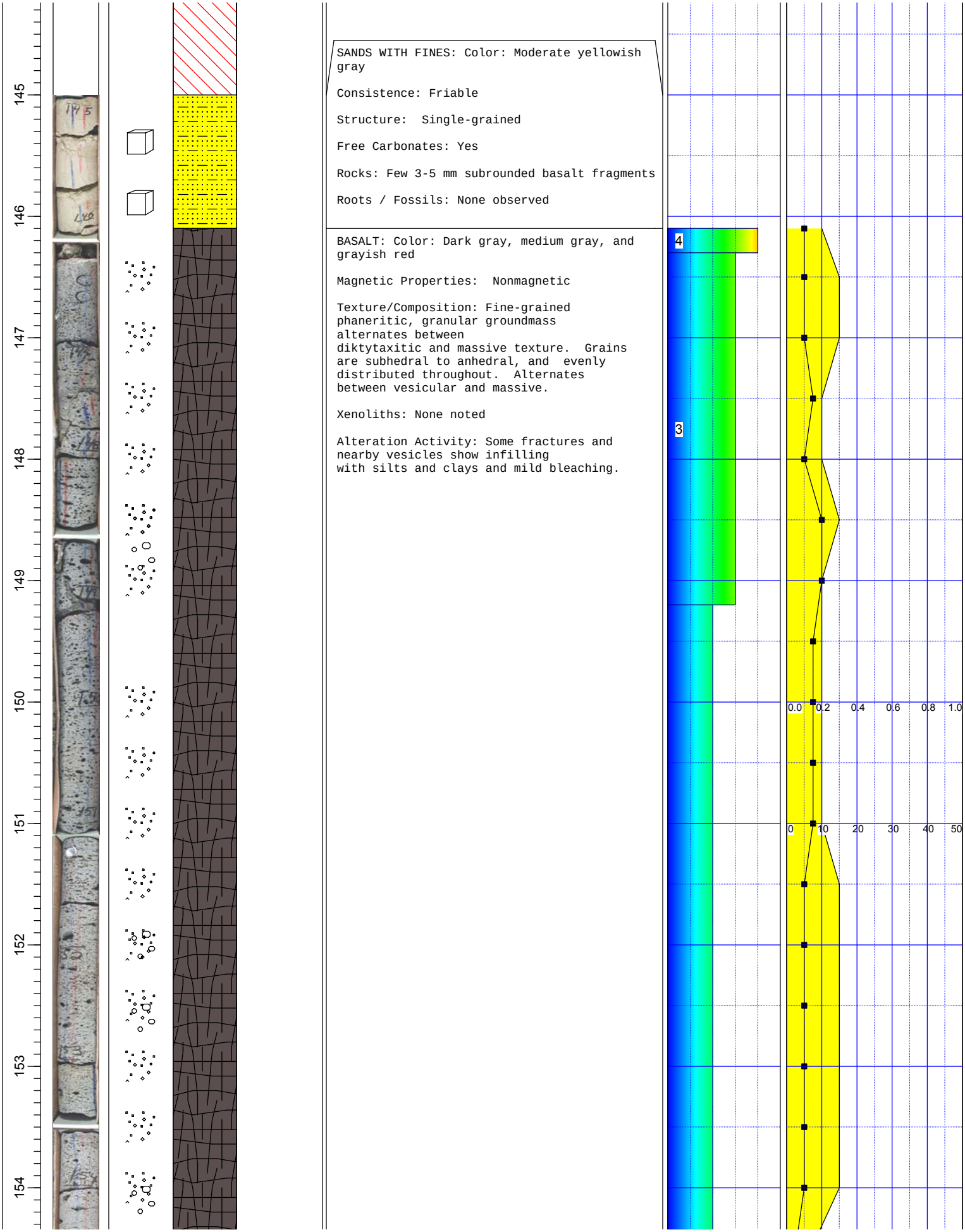


SANDS WITH FINES: Color: Moderate yellowish gray

Consistence: Friable

Structure: Single-grained

Free Carbonates: Yes

Rocks: Few 3-5 mm subrounded basalt fragments

Roots / Fossils: None observed

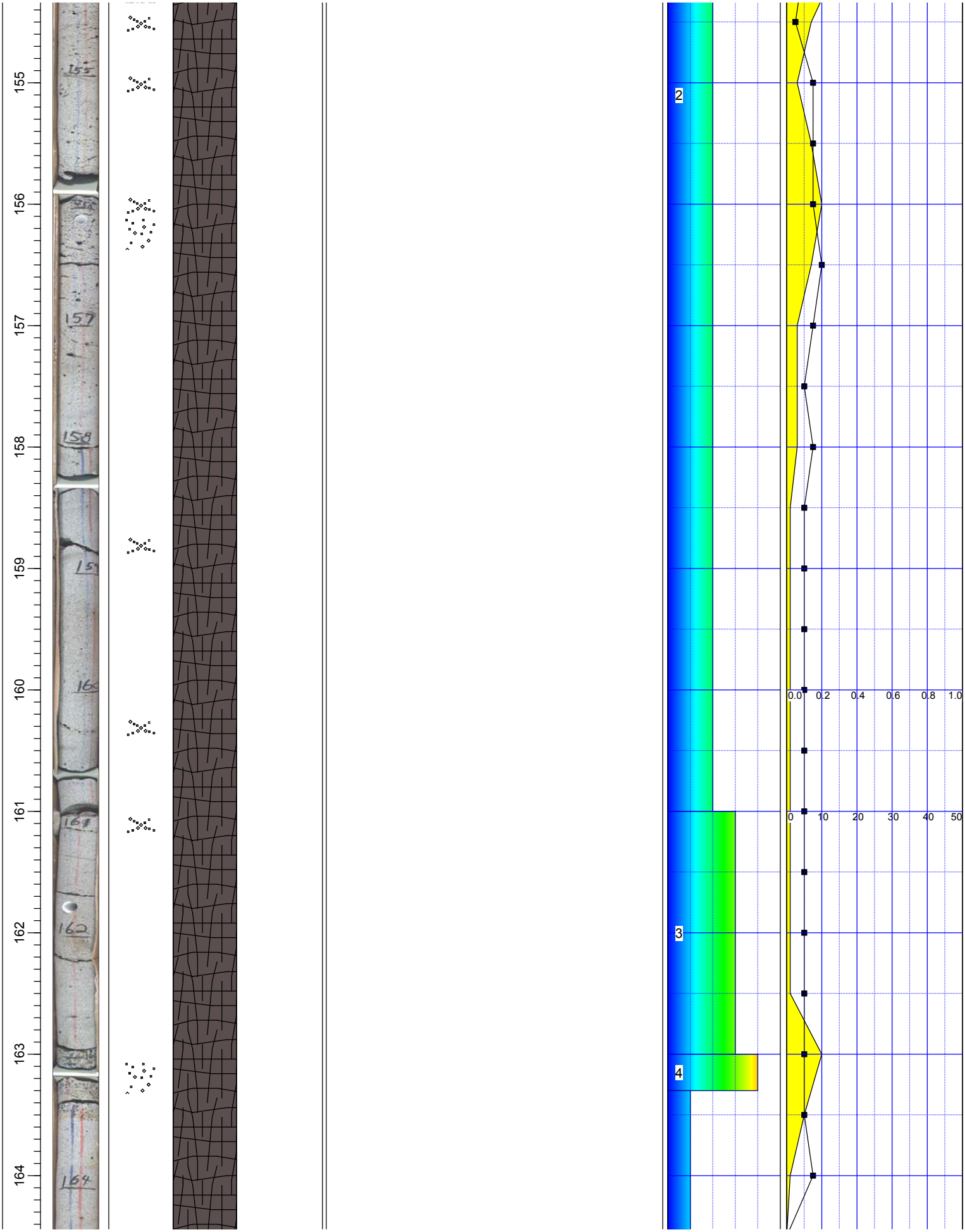
BASALT: Color: Dark gray, medium gray, and grayish red

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic, granular groundmass alternates between diktytaxitic and massive texture. Grains are subhedral to anhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

Alteration Activity: Some fractures and nearby vesicles show infilling with silts and clays and mild bleaching.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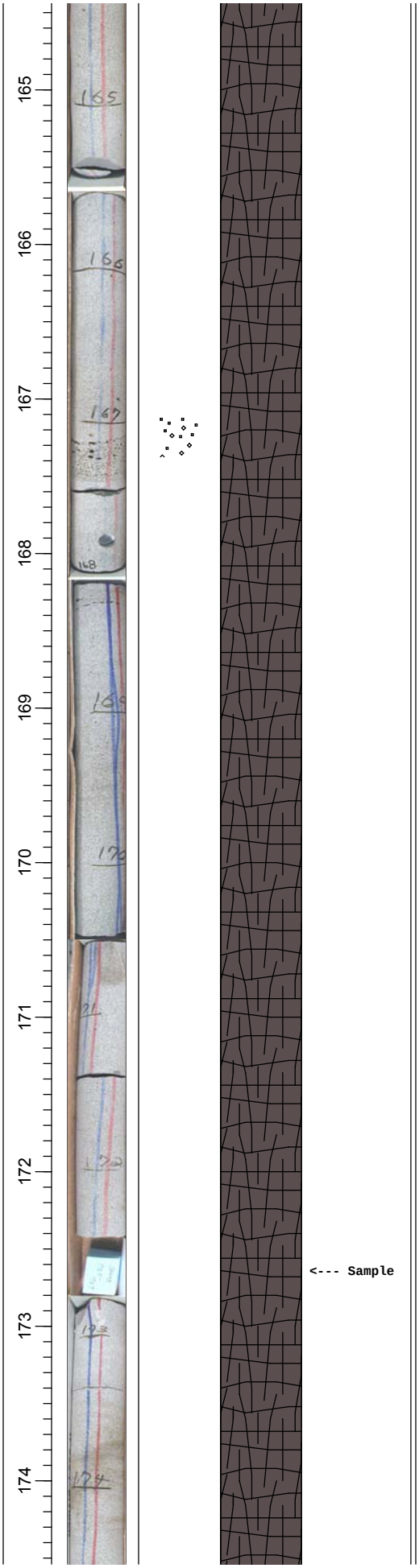
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166
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168
169
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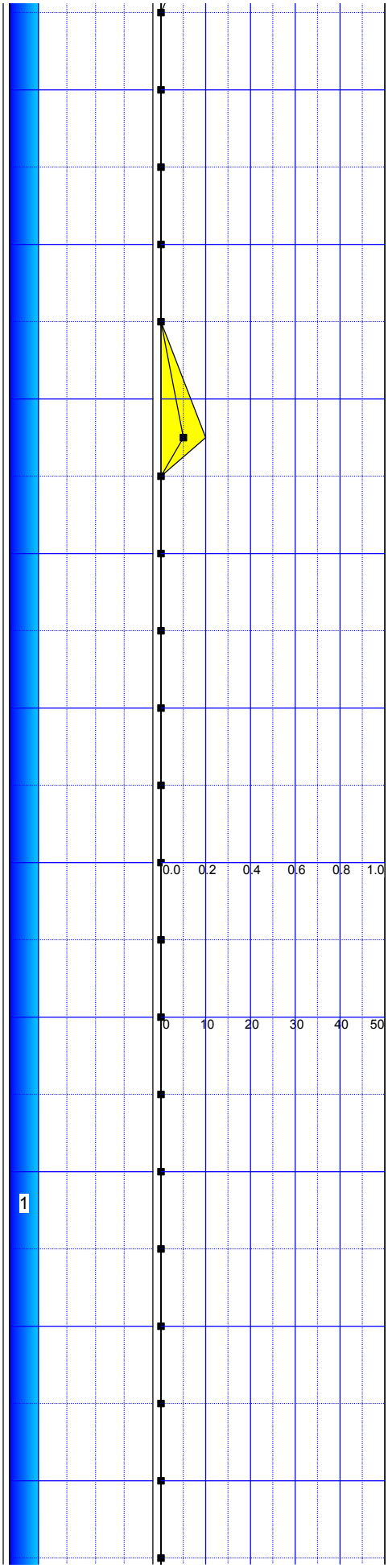
173
174
<--- Sample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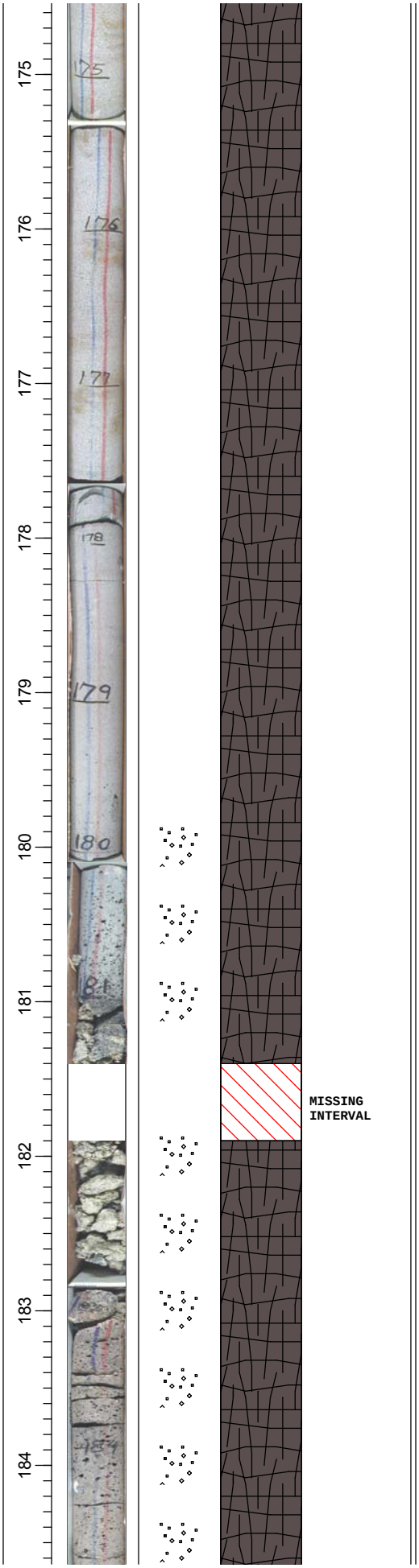
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179
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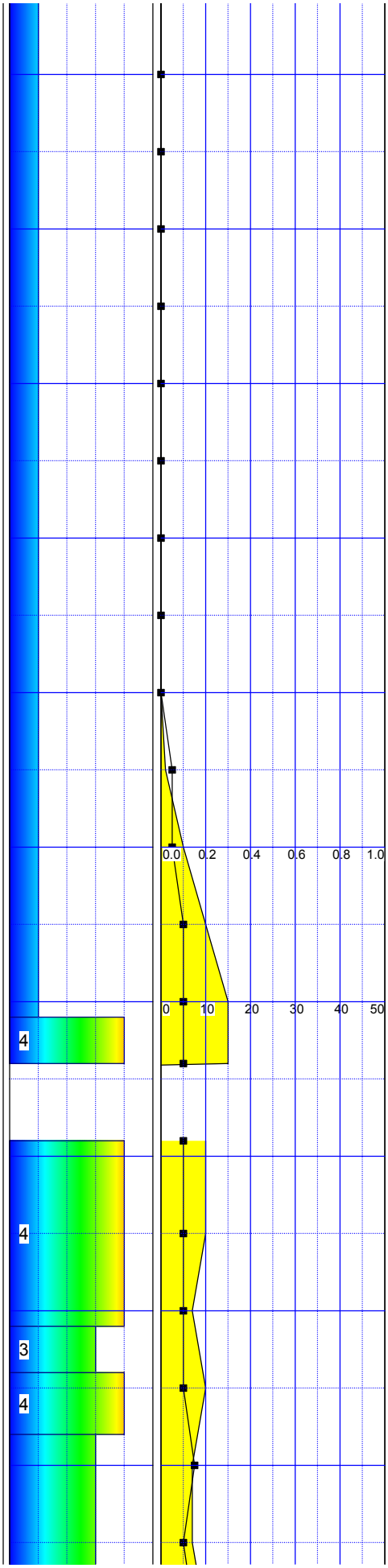
183
184
MISSING
INTERVAL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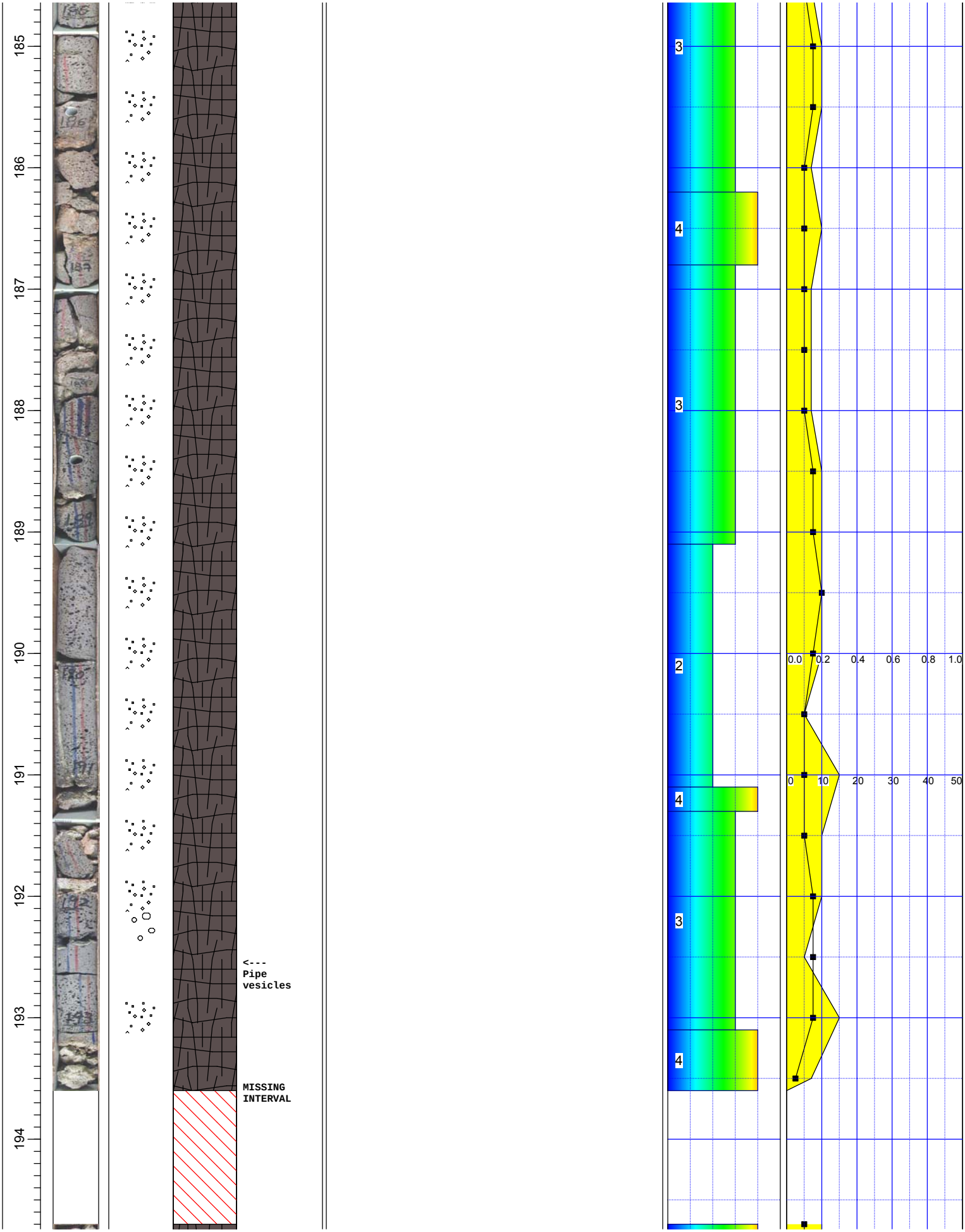
185
186
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194
<--- Pipe vesicles
MISSING INTERVAL
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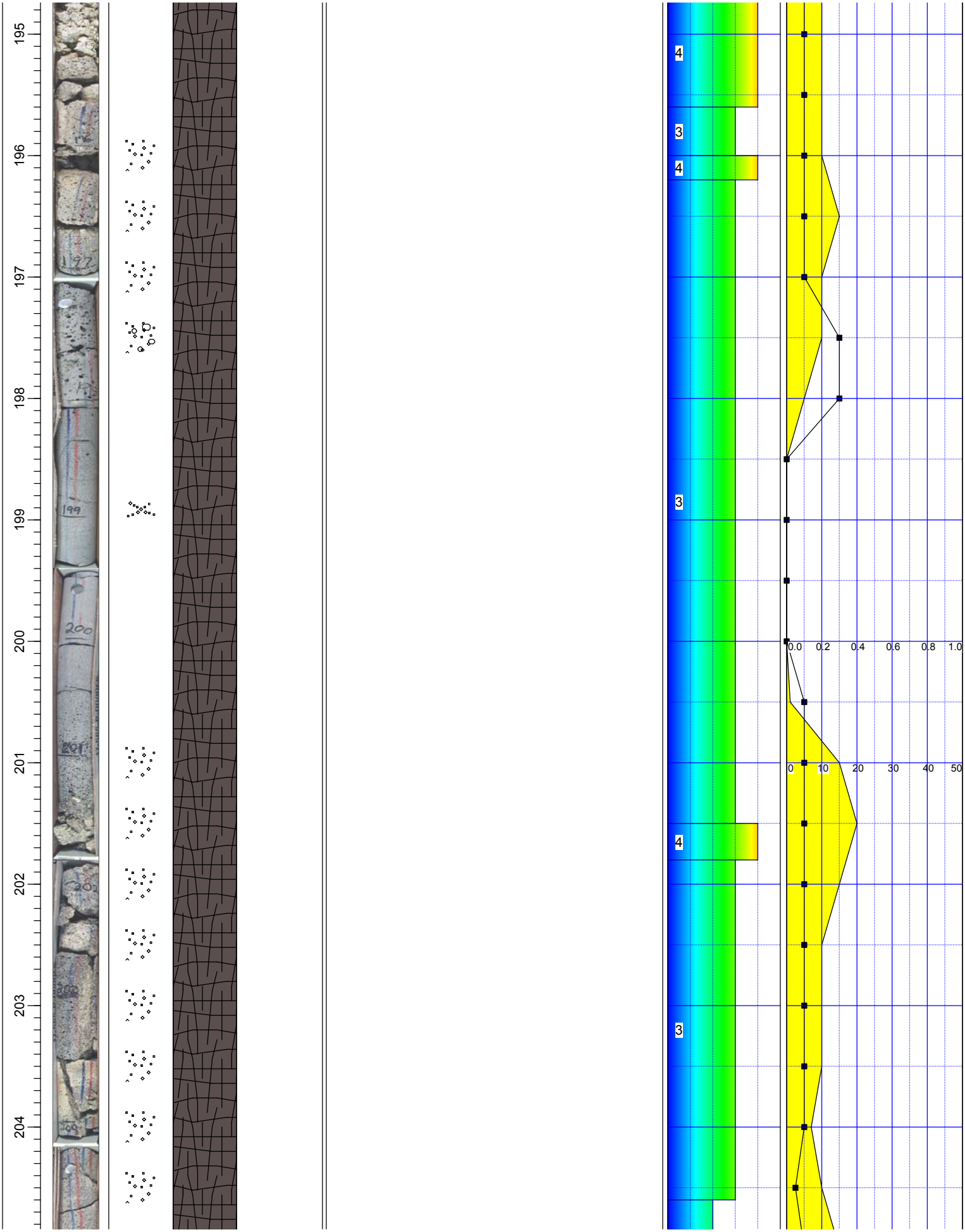
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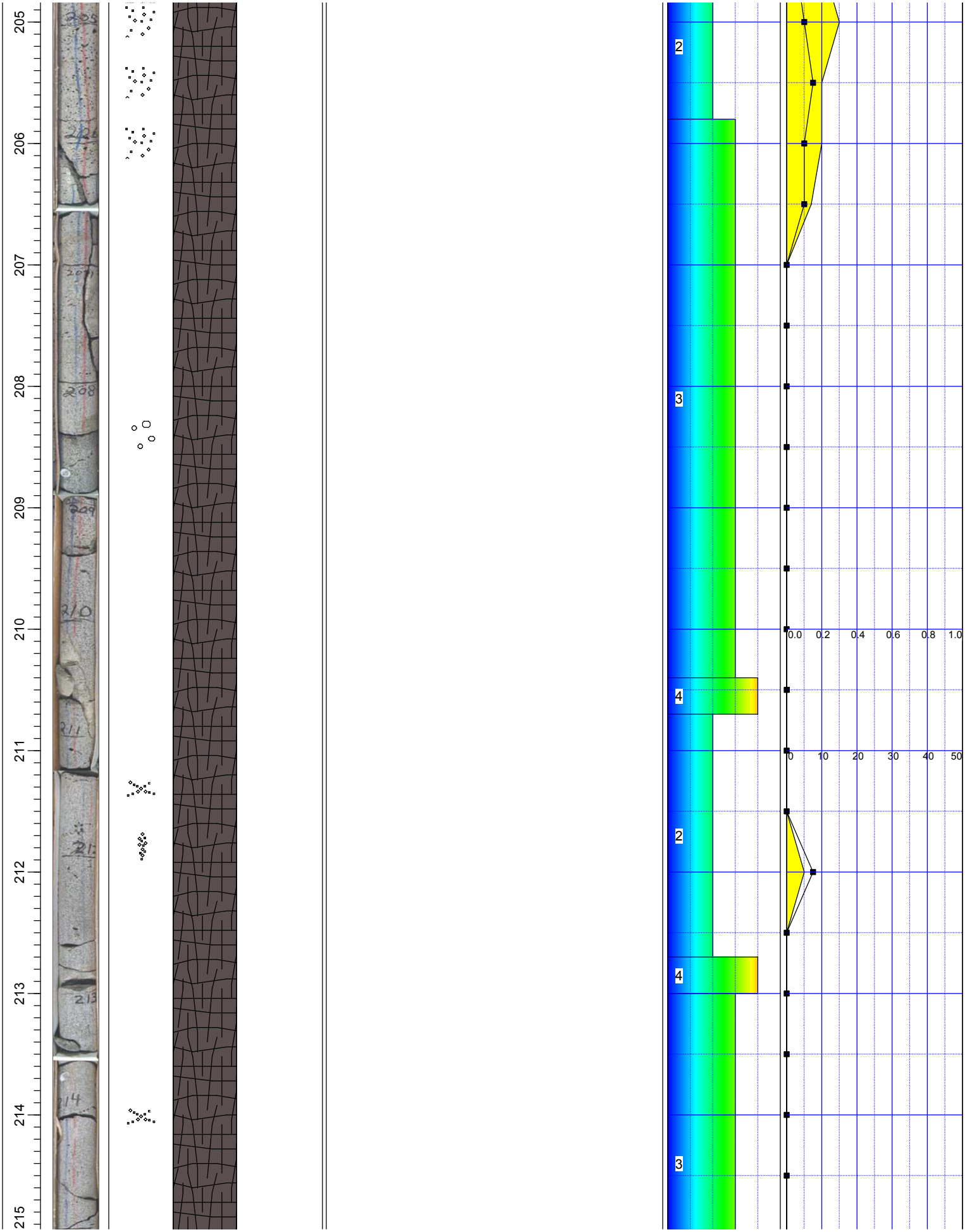
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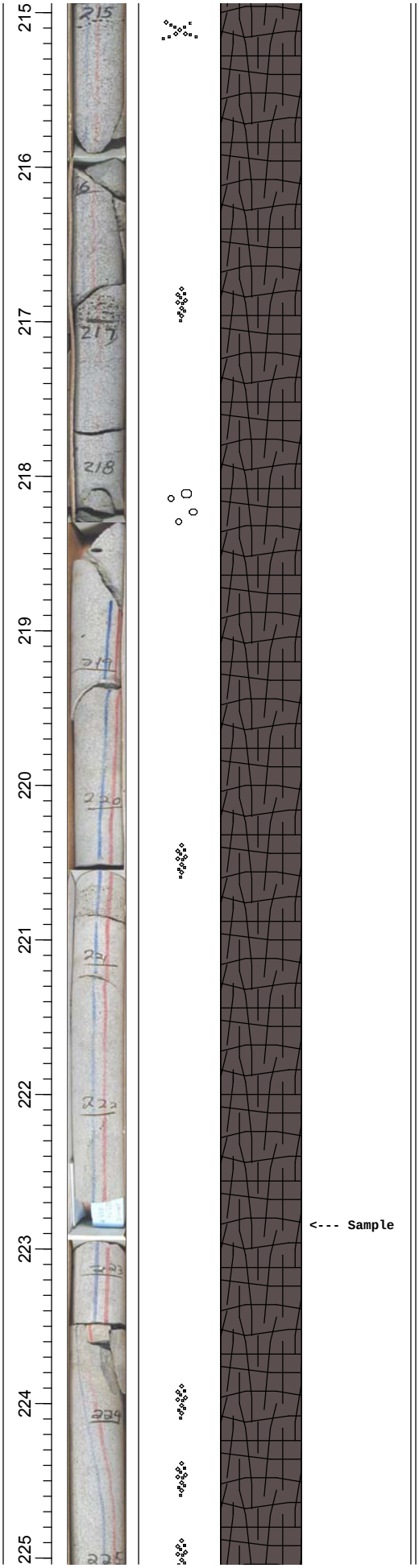
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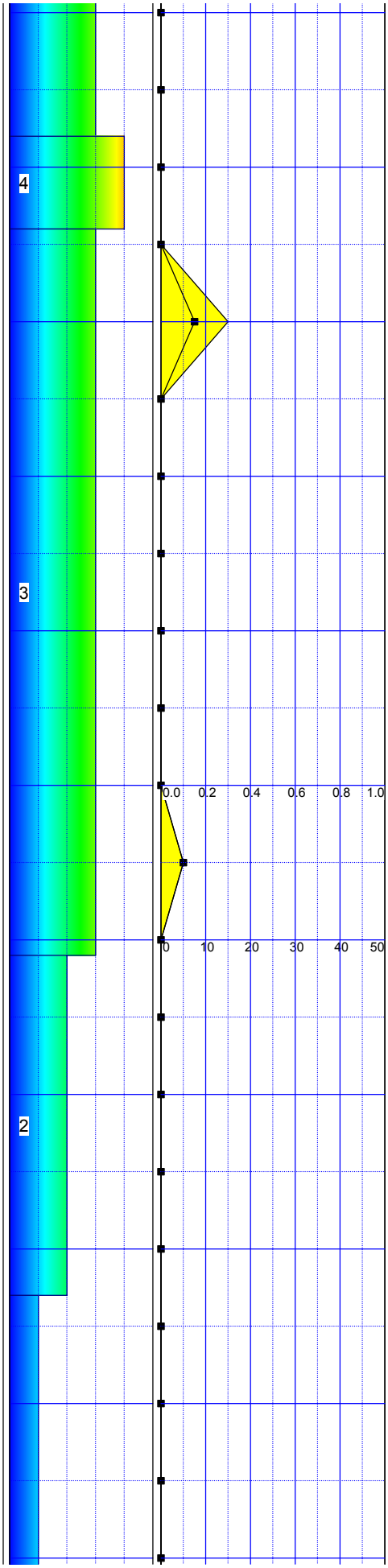
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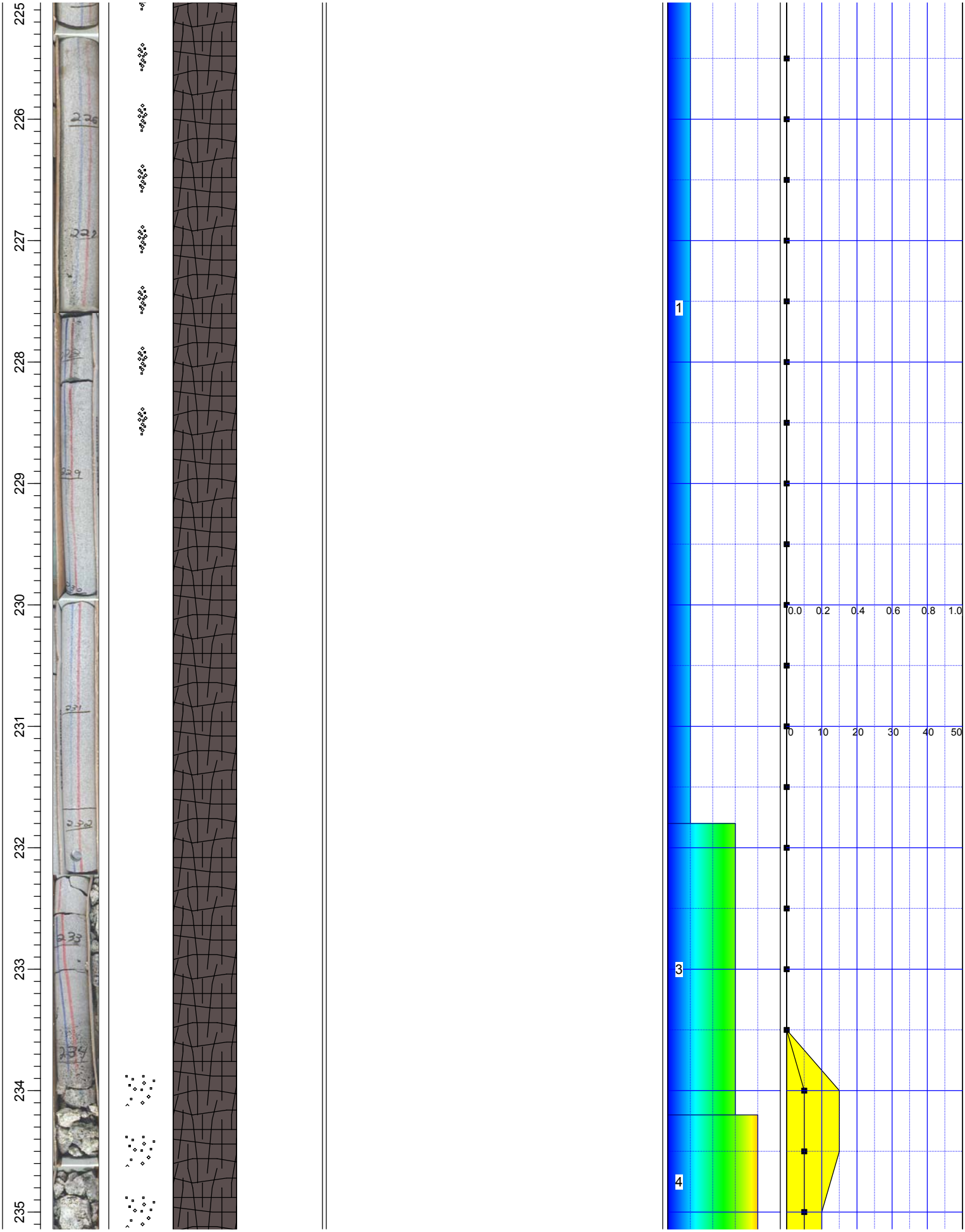
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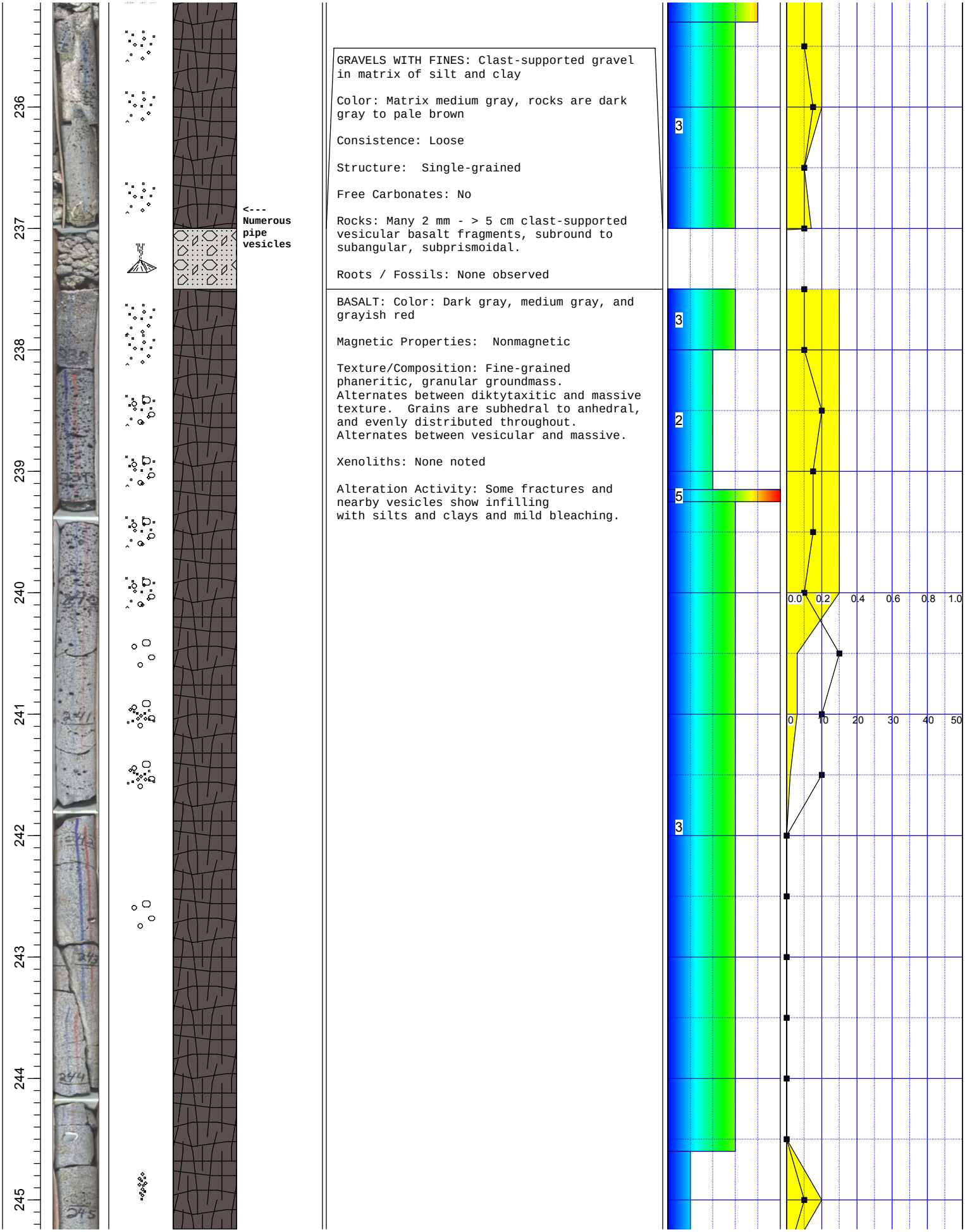
236
237
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245
<--- Numerous pipe vesicles
GRAVELS WITH FINES: Clast-supported gravel in matrix of silt and clay
Color: Matrix medium gray, rocks are dark gray to pale brown
Consistence: Loose
Structure: Single-grained
Free Carbonates: No
Rocks: Many 2 mm - > 5 cm clast-supported vesicular basalt fragments, subround to subangular, subprismoidal.
Roots / Fossils: None observed
BASALT: Color: Dark gray, medium gray, and grayish red
Magnetic Properties: Nonmagnetic
Texture/Composition: Fine-grained phaneritic, granular groundmass. Alternates between diktytaxitic and massive texture. Grains are subhedral to anhedral, and evenly distributed throughout. Alternates between vesicular and massive.
Xenoliths: None noted
Alteration Activity: Some fractures and nearby vesicles show infilling with silts and clays and mild bleaching.
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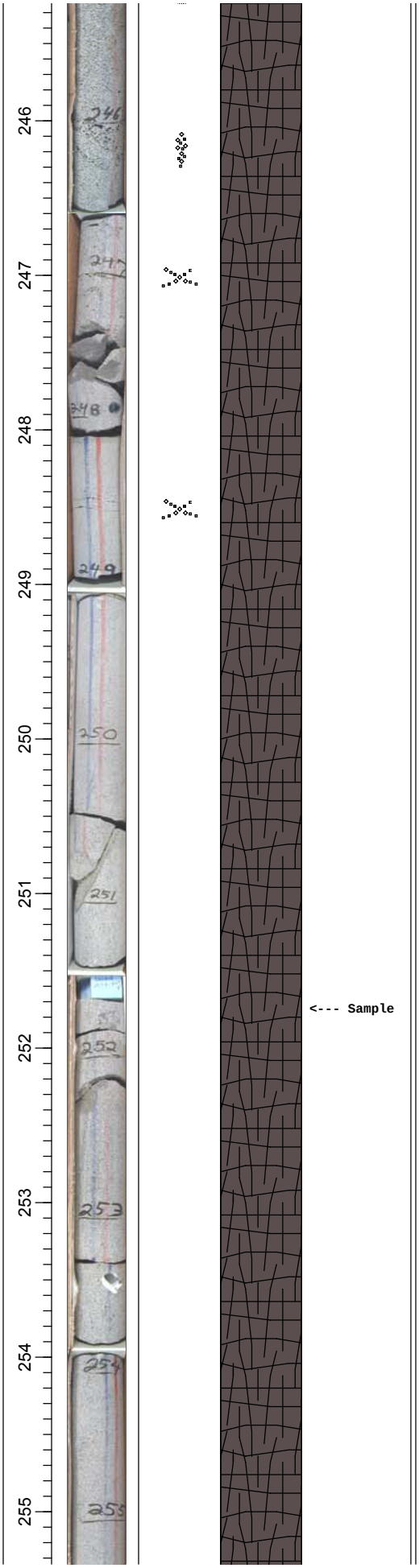
246
247
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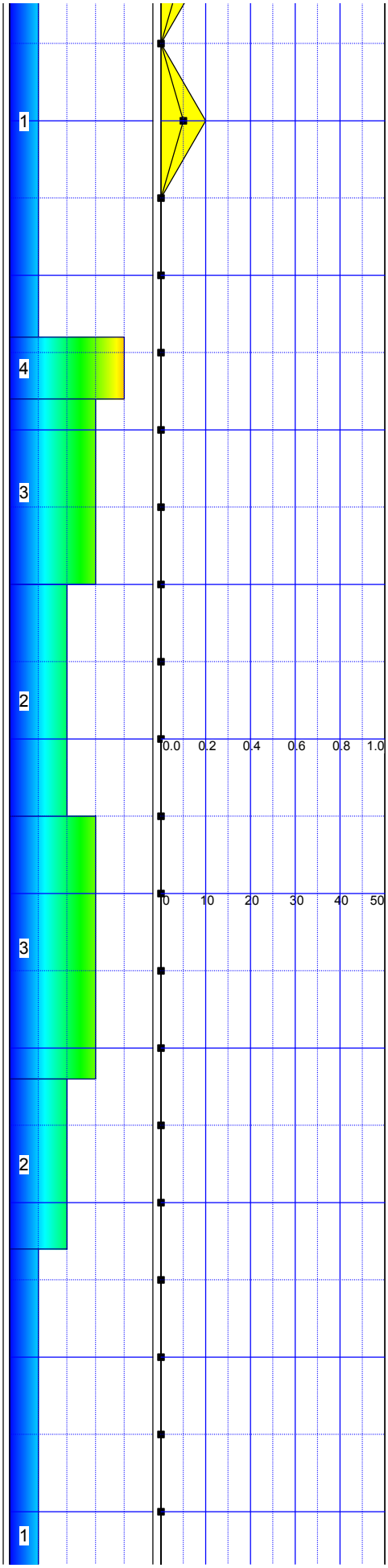
<--- Sample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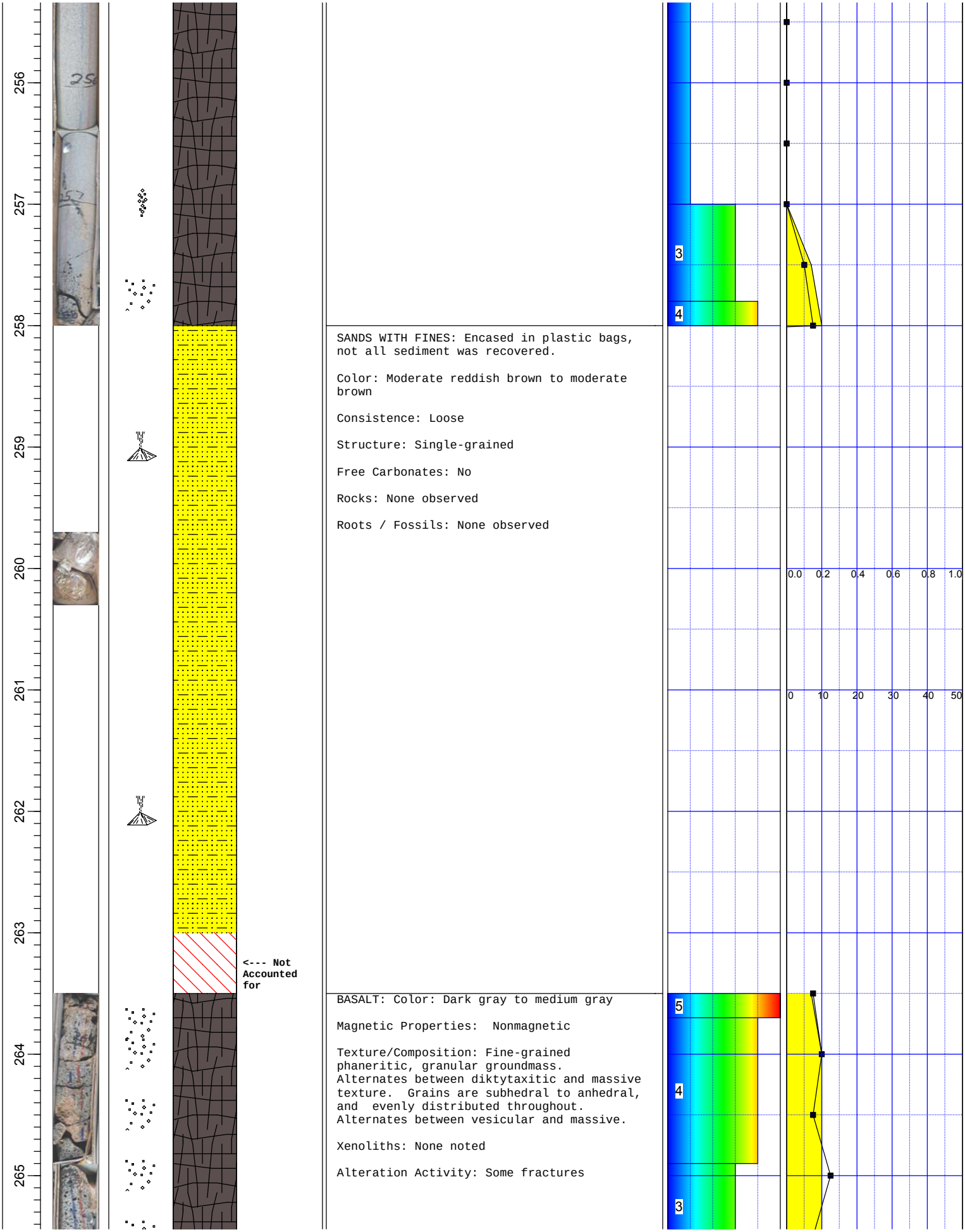


SANDS WITH FINES: Encased in plastic bags, not all sediment was recovered.

Color: Moderate reddish brown to moderate brown

Consistence: Loose

Structure: Single-grained

Free Carbonates: No

Rocks: None observed

Roots / Fossils: None observed

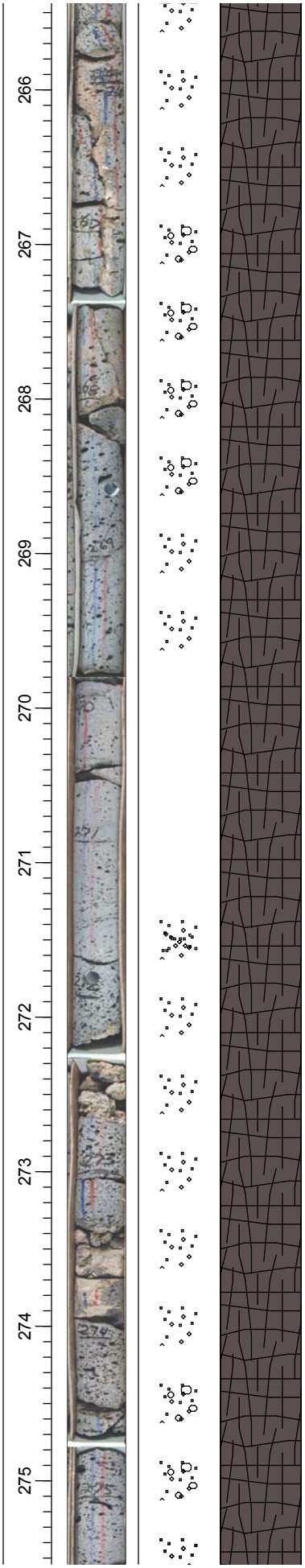
BASALT: Color: Dark gray to medium gray

Magnetic Properties: Nonmagnetic

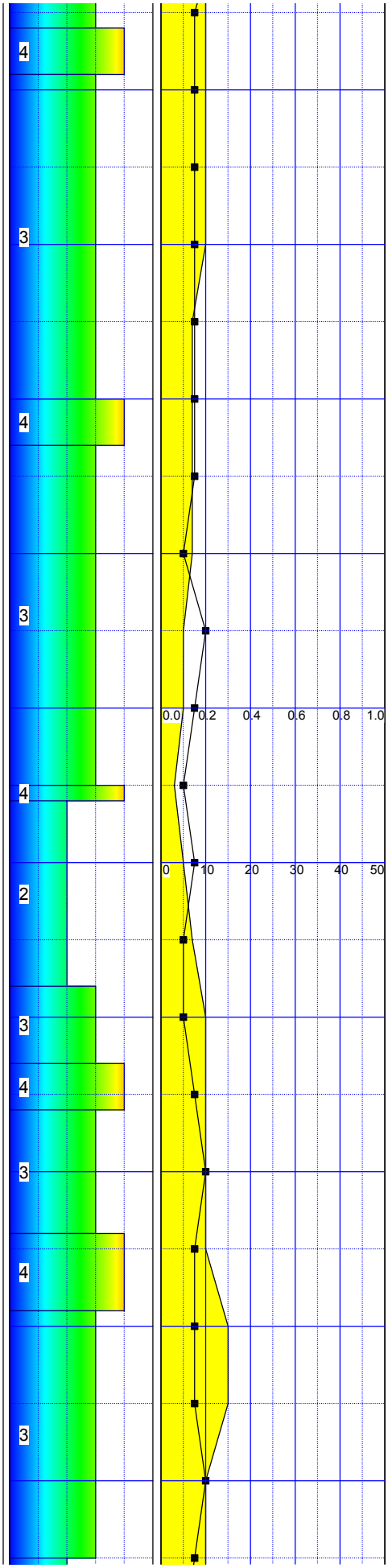
Texture/Composition: Fine-grained phaneritic, granular groundmass. Alternates between diktytaxitic and massive texture. Grains are subhedral to anhedral, and evenly distributed throughout. Alternates between vesicular and massive.

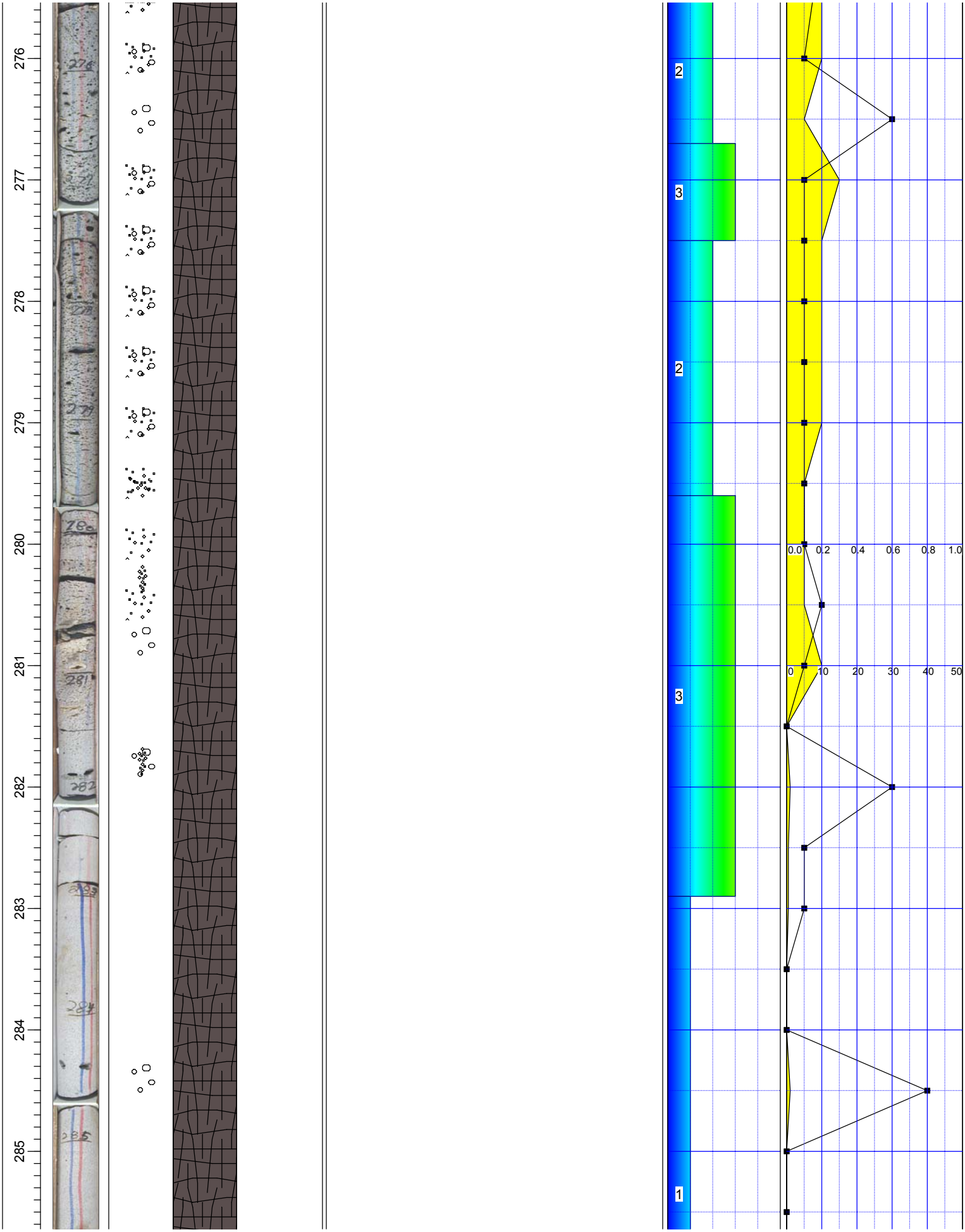
Xenoliths: None noted

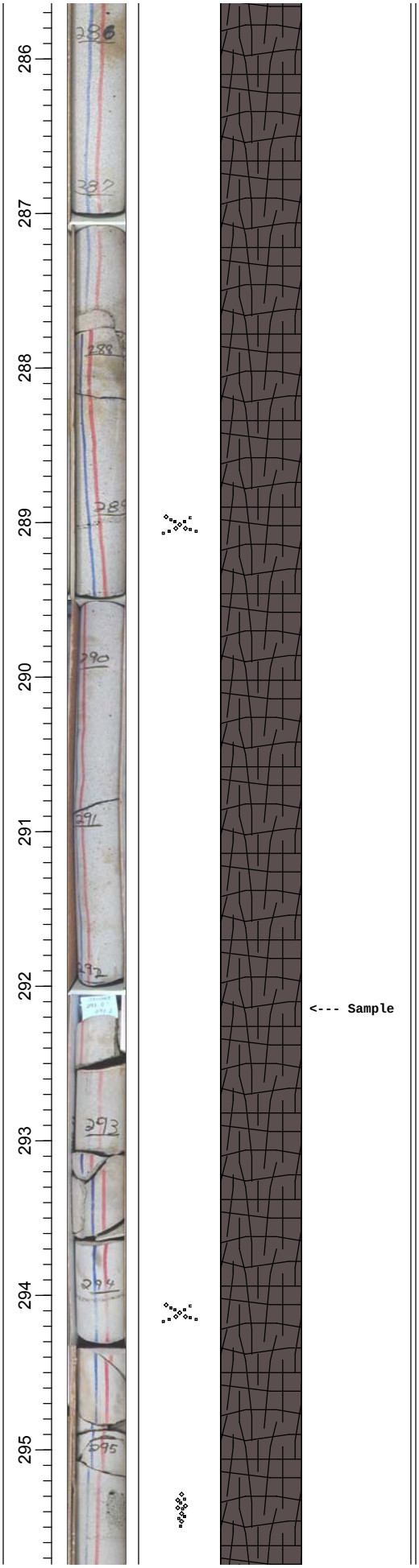
Alteration Activity: Some fractures

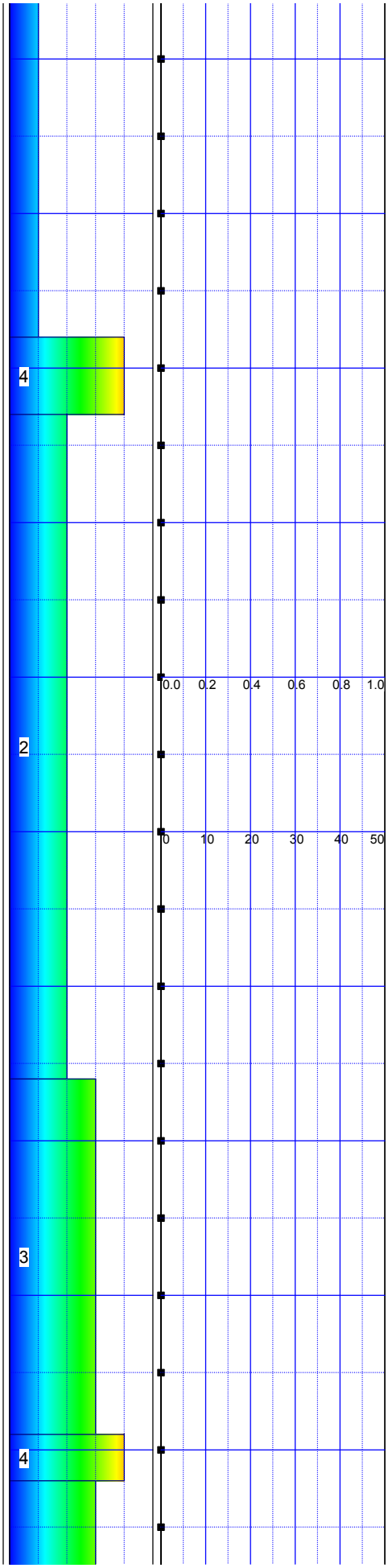


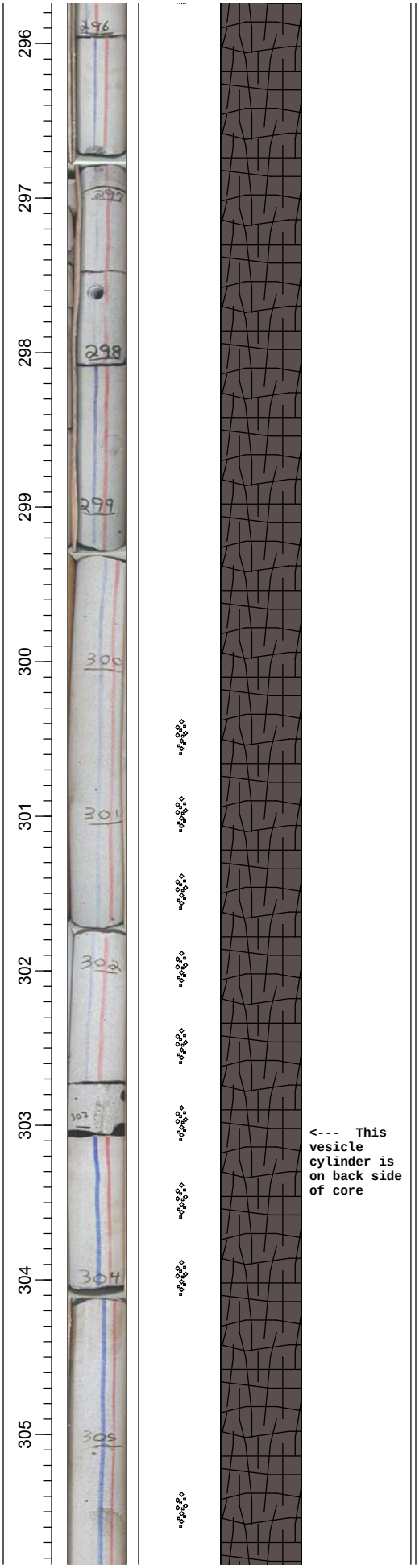
and nearby vesicles show infilling with silts and clays and mild bleaching.

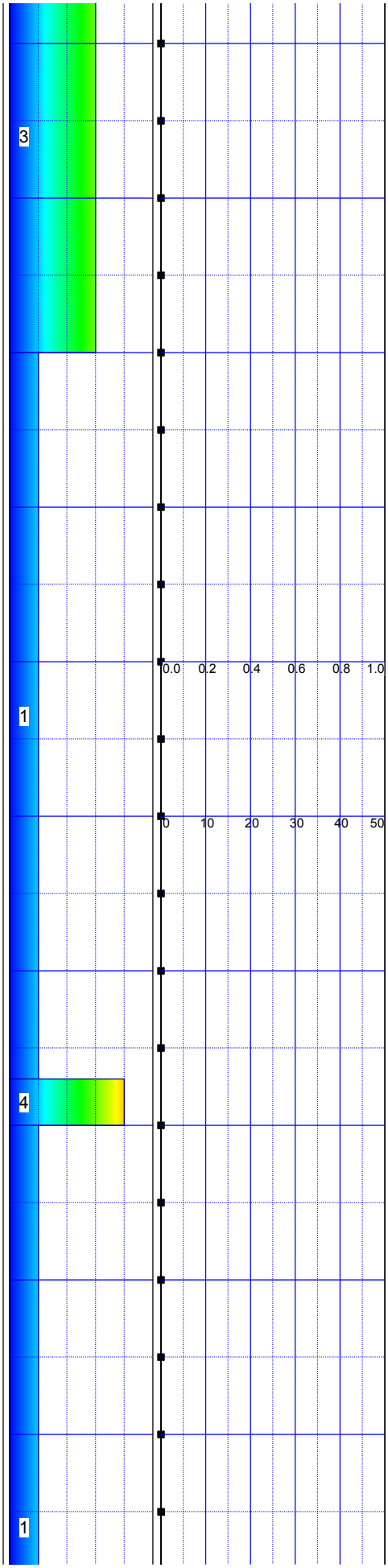


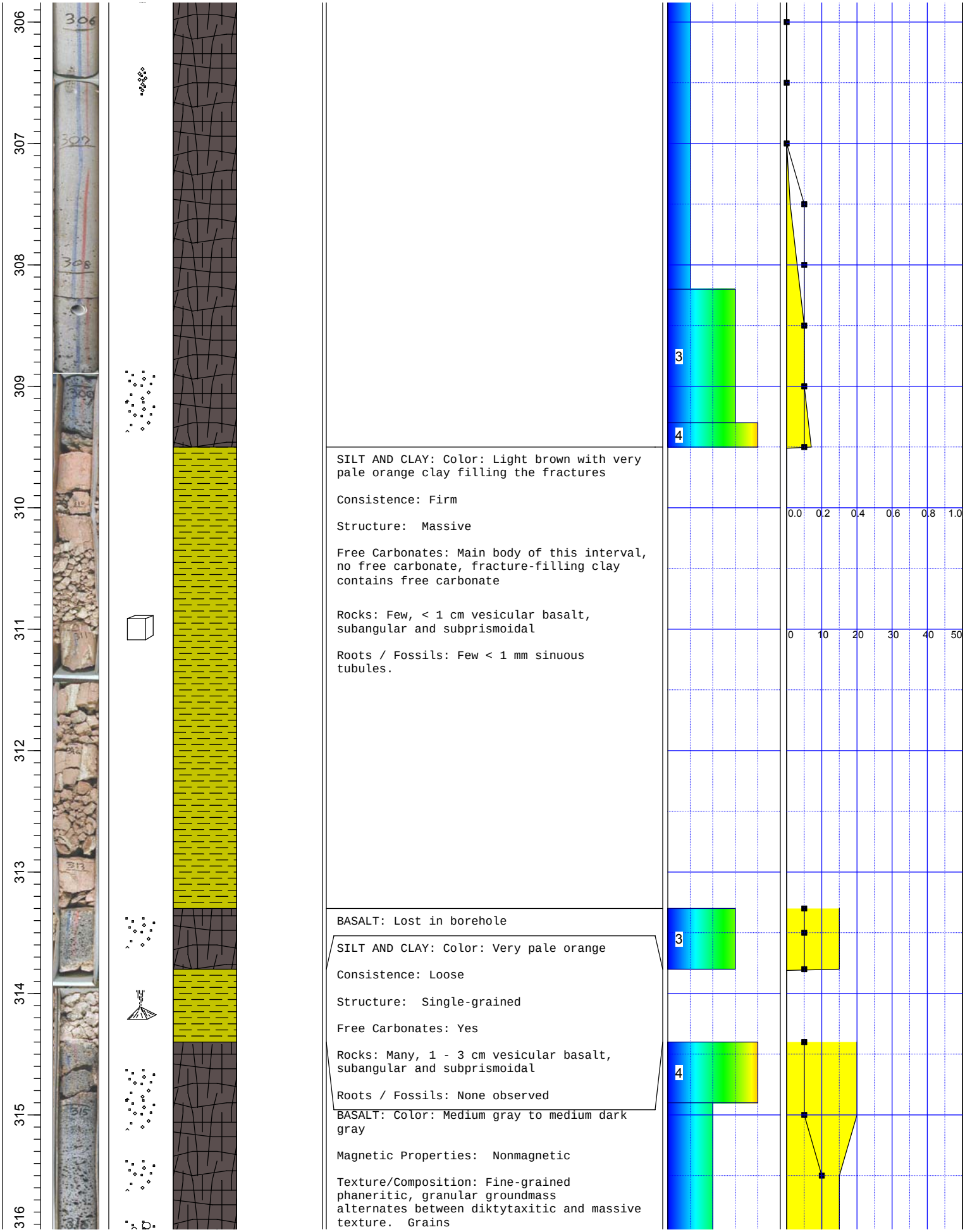

276
277
278
279
280
281
282
283
284
285
2
3
2
3
1
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


286
287
288
289
290
291
292
293
294
295
<--- Sample


4
2
3
4
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


296
297
298
299
300
301
302
303
304
305
<--- This vesicle cylinder is on back side of core


3
1
4
1
0.0 0.2 0.4 0.6 0.8 1.0
0 10 20 30 40 50



SILT AND CLAY: Color: Light brown with very pale orange clay filling the fractures

Consistence: Firm

Structure: Massive

Free Carbonates: Main body of this interval, no free carbonate, fracture-filling clay contains free carbonate

Rocks: Few, < 1 cm vesicular basalt, subangular and subprismoidal

Roots / Fossils: Few < 1 mm sinuous tubules.

BASALT: Lost in borehole

SILT AND CLAY: Color: Very pale orange

Consistence: Loose

Structure: Single-grained

Free Carbonates: Yes

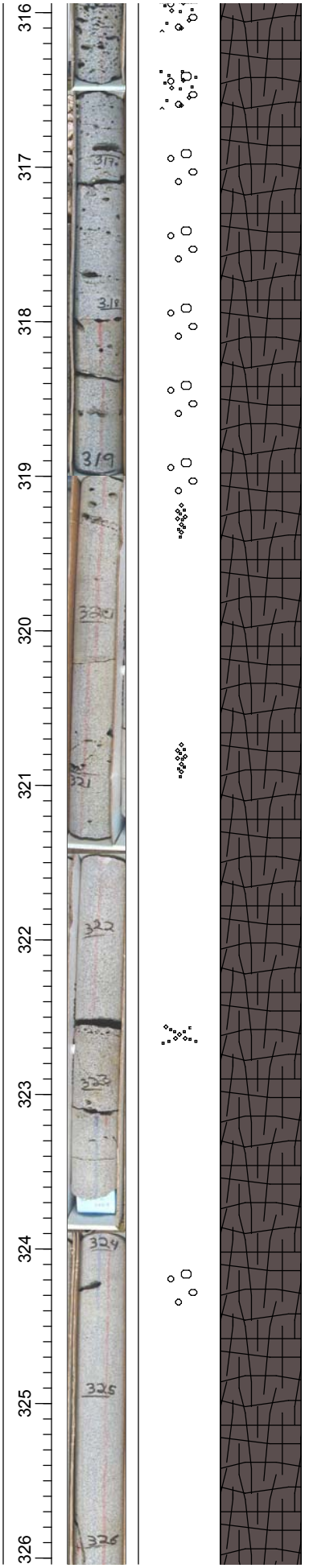
Rocks: Many, 1 - 3 cm vesicular basalt, subangular and subprismoidal

Roots / Fossils: None observed

BASALT: Color: Medium gray to medium dark gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic, granular groundmass alternates between diktytaxitic and massive texture. Grains

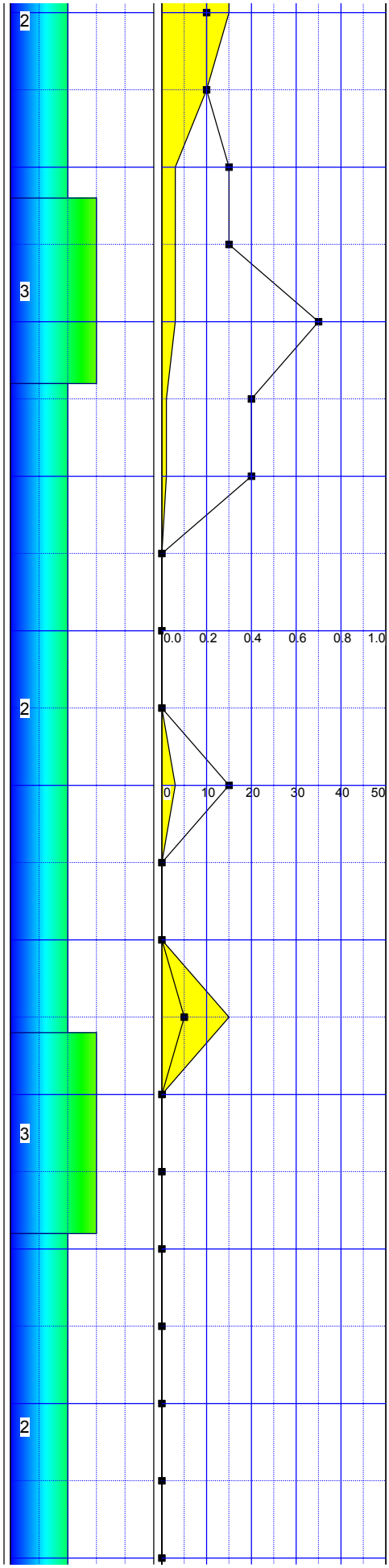


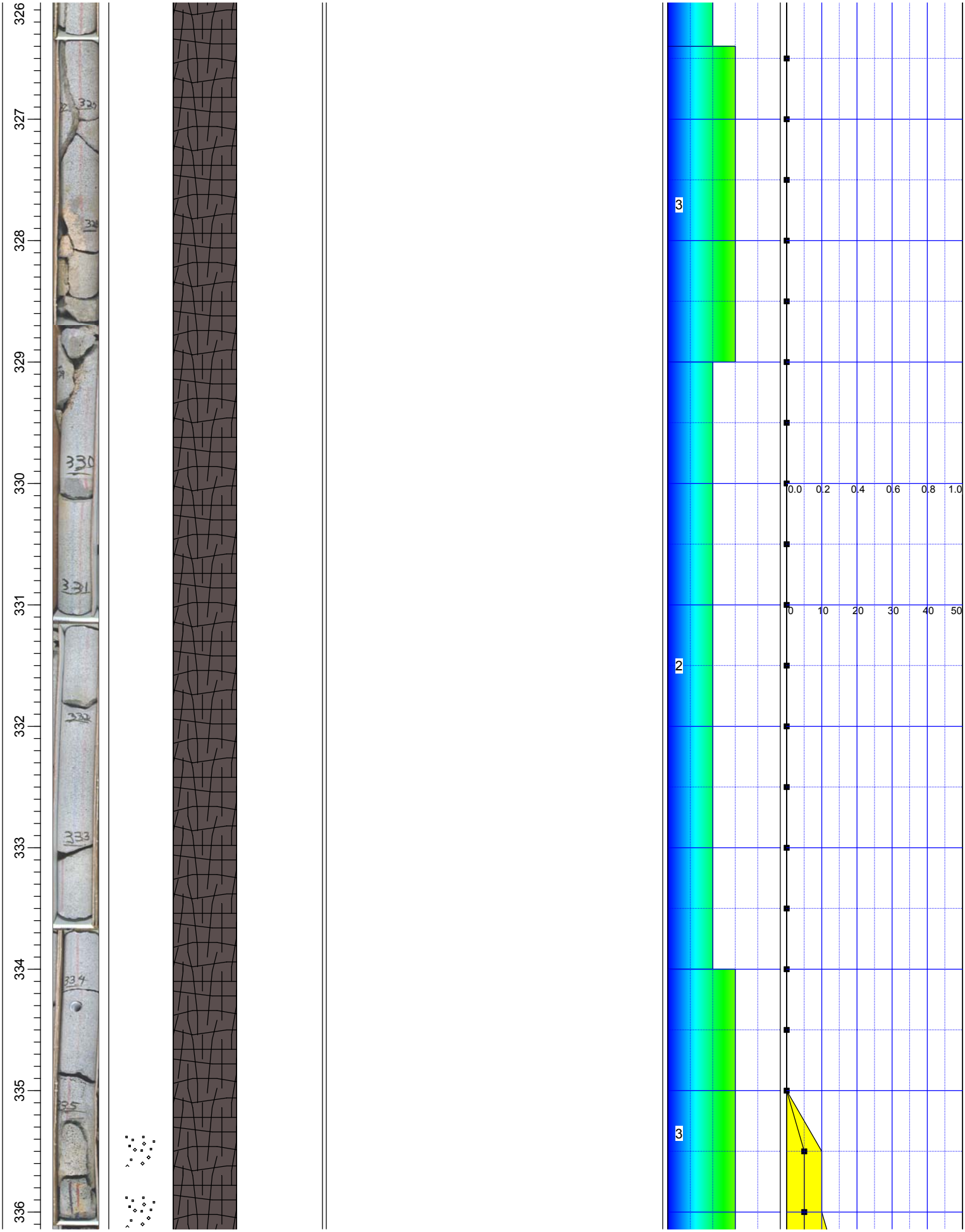
<--- Sample

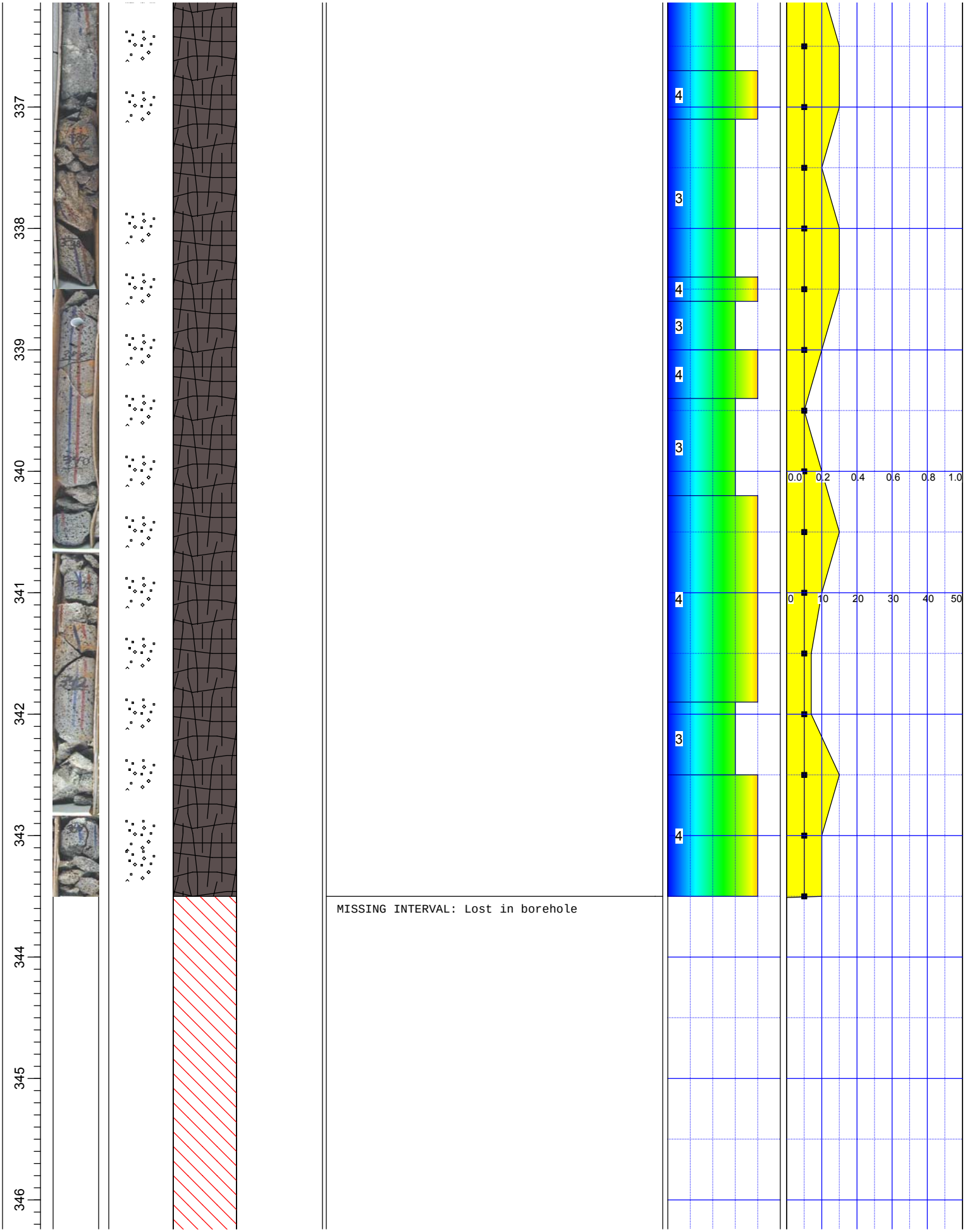
are subhedral to anhedral, and evenly distributed throughout. Alternates between vesicular and massive.

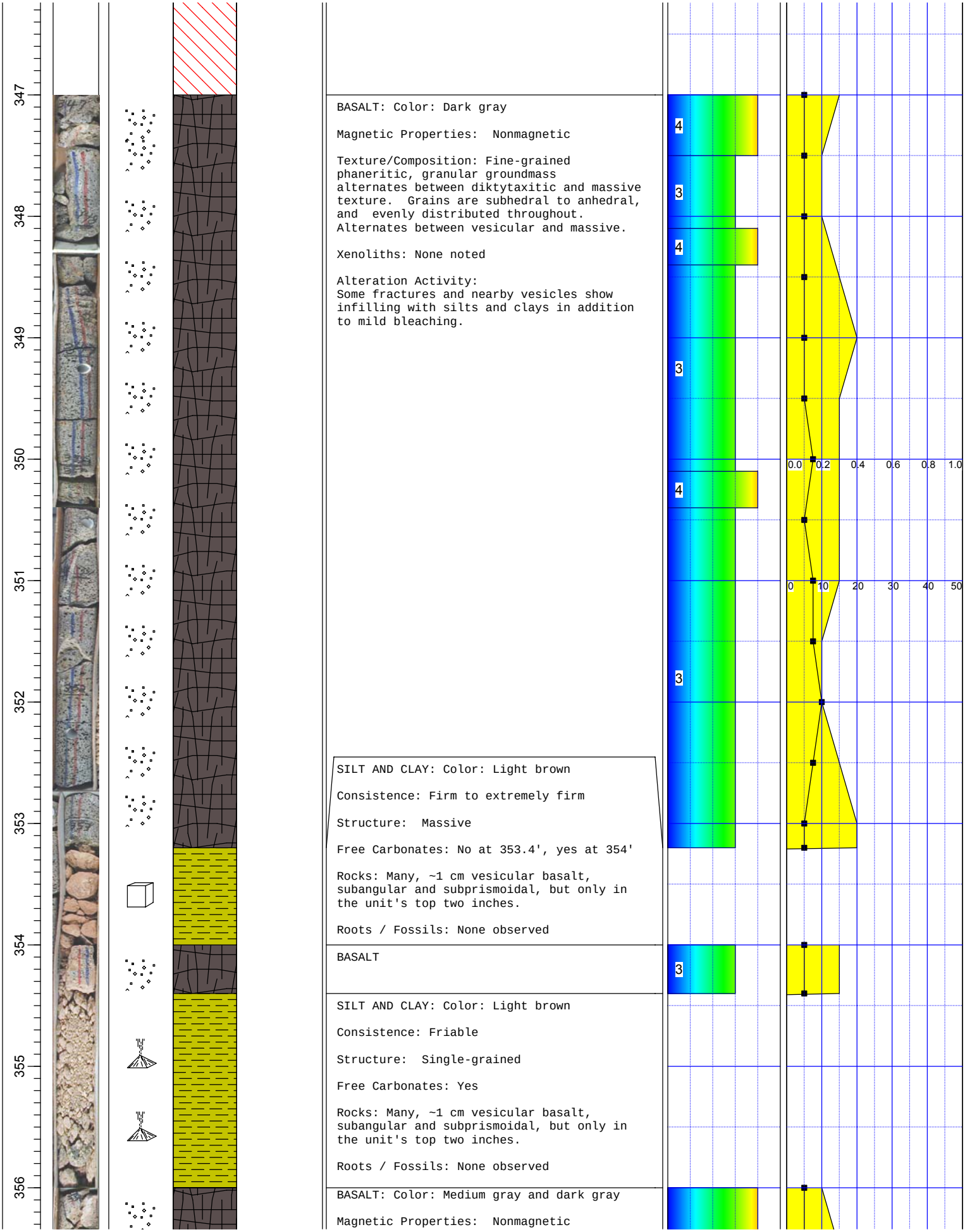
Xenoliths: None noted

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




326
327
328
329
330
331
332
333
334
335
336
329
330
331
332
333
334
335
3
2
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


337
338
339
340
341
342
343
344
345
346
MISSING INTERVAL: Lost in borehole
4
3
4
3
4
3
4
3
4
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50



BASALT: Color: Dark gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic, granular groundmass alternates between diktytaxitic and massive texture. Grains are subhedral to anhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

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

SILT AND CLAY: Color: Light brown

Consistence: Firm to extremely firm

Structure: Massive

Free Carbonates: No at 353.4', yes at 354'

Rocks: Many, ~1 cm vesicular basalt, subangular and subprismoidal, but only in the unit's top two inches.

Roots / Fossils: None observed

BASALT

SILT AND CLAY: Color: Light brown

Consistence: Friable

Structure: Single-grained

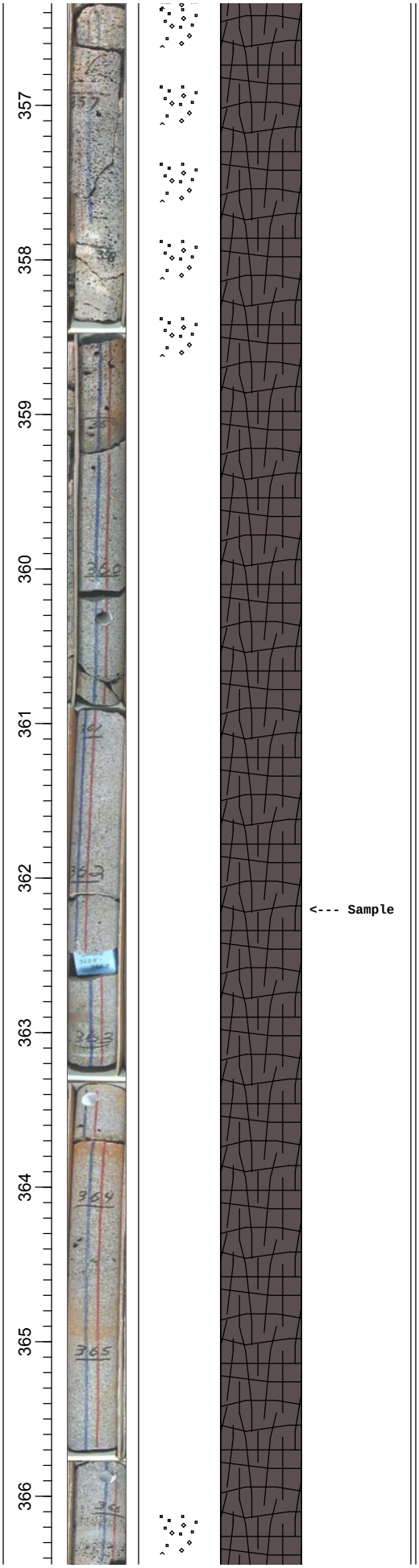
Free Carbonates: Yes

Rocks: Many, ~1 cm vesicular basalt, subangular and subprismoidal, but only in the unit's top two inches.

Roots / Fossils: None observed

BASALT: Color: Medium gray and dark gray

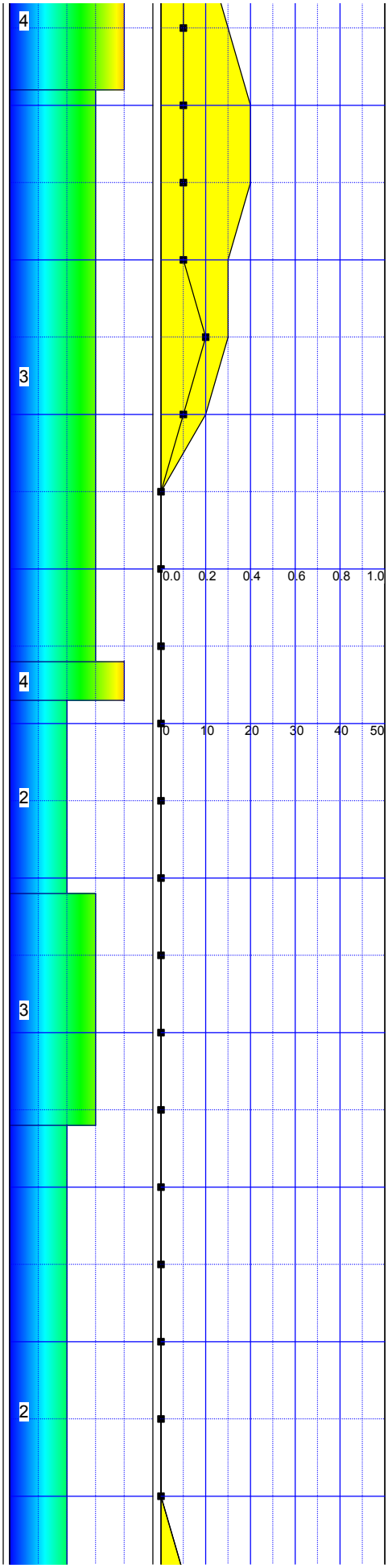
Magnetic Properties: Nonmagnetic

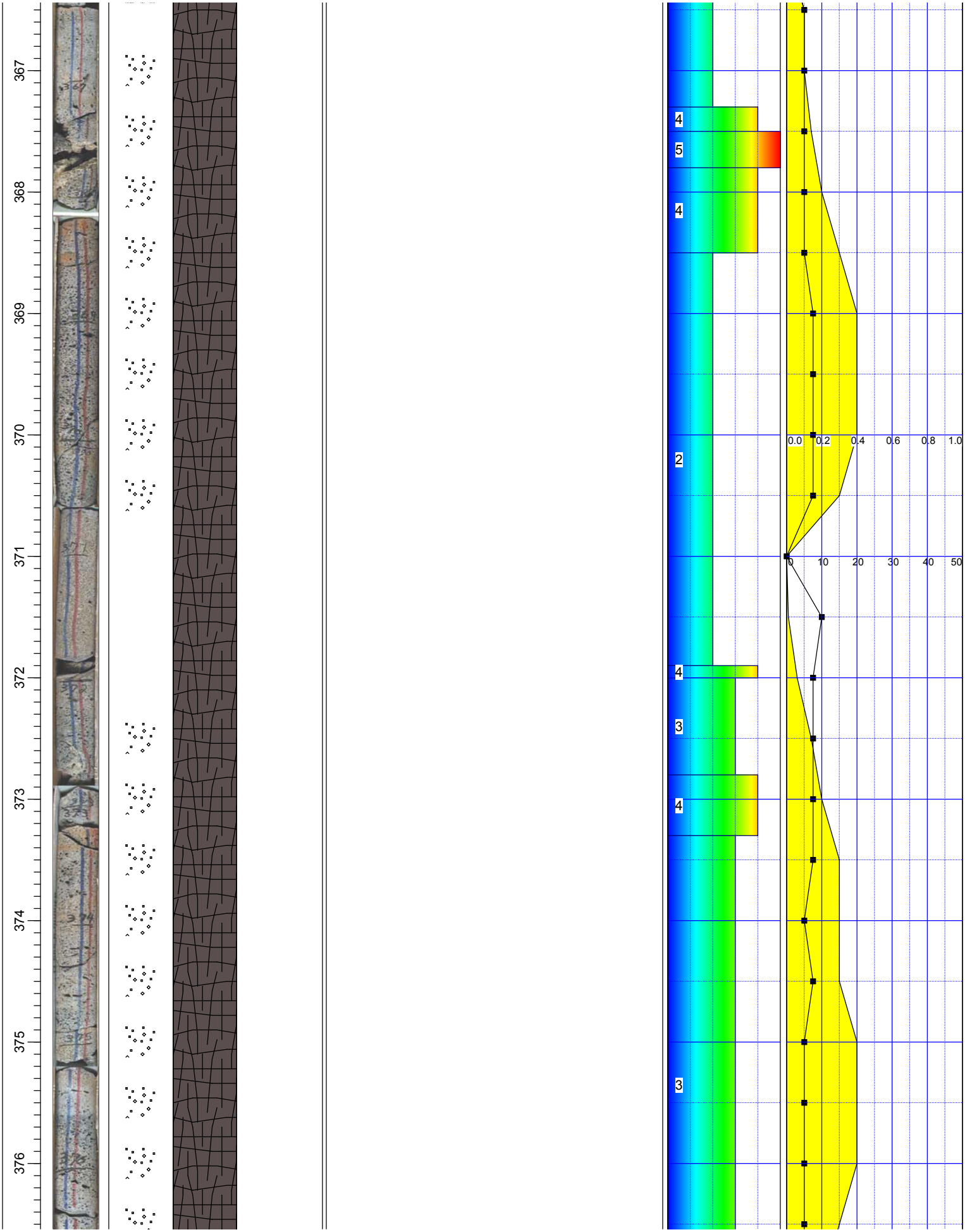


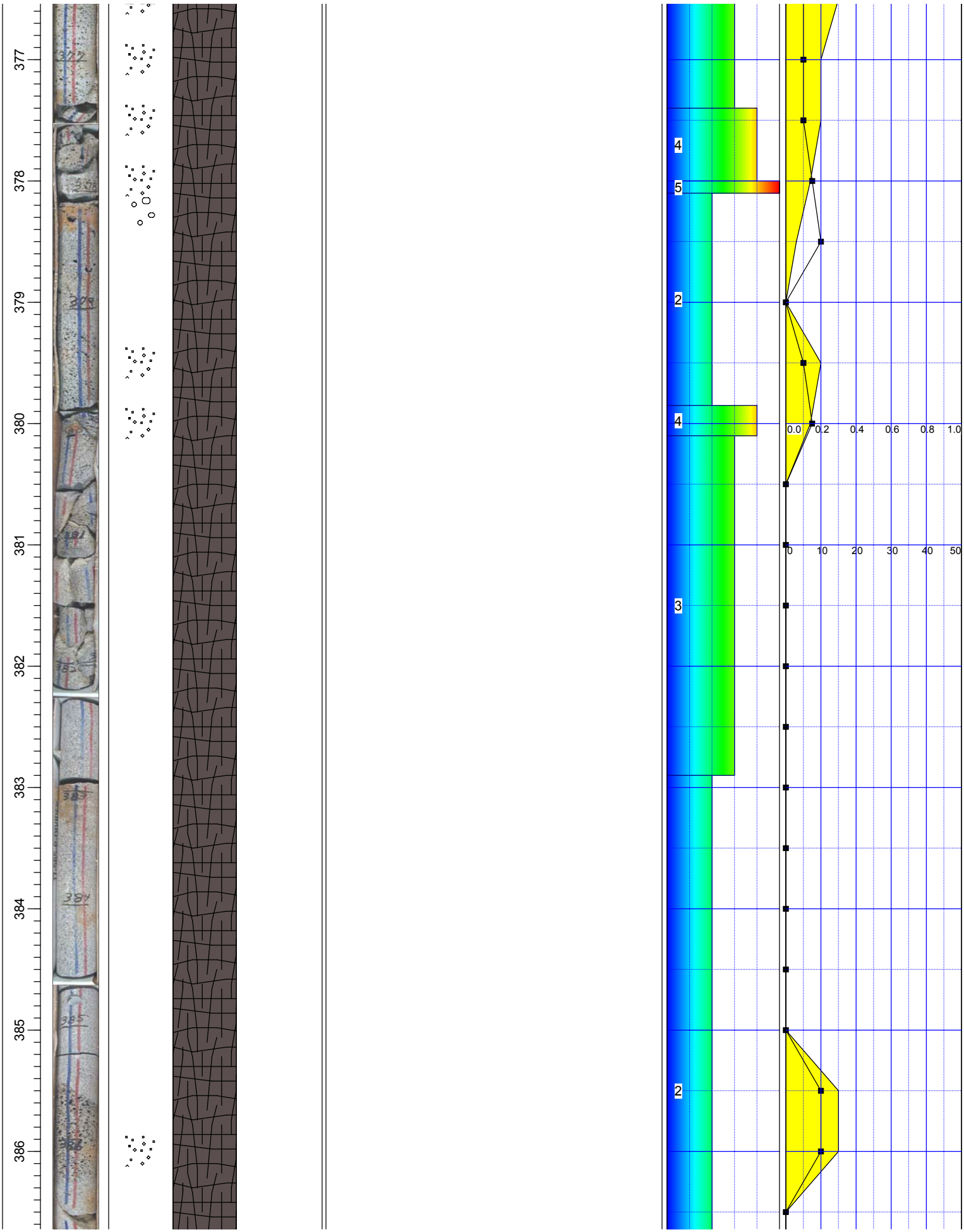
Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

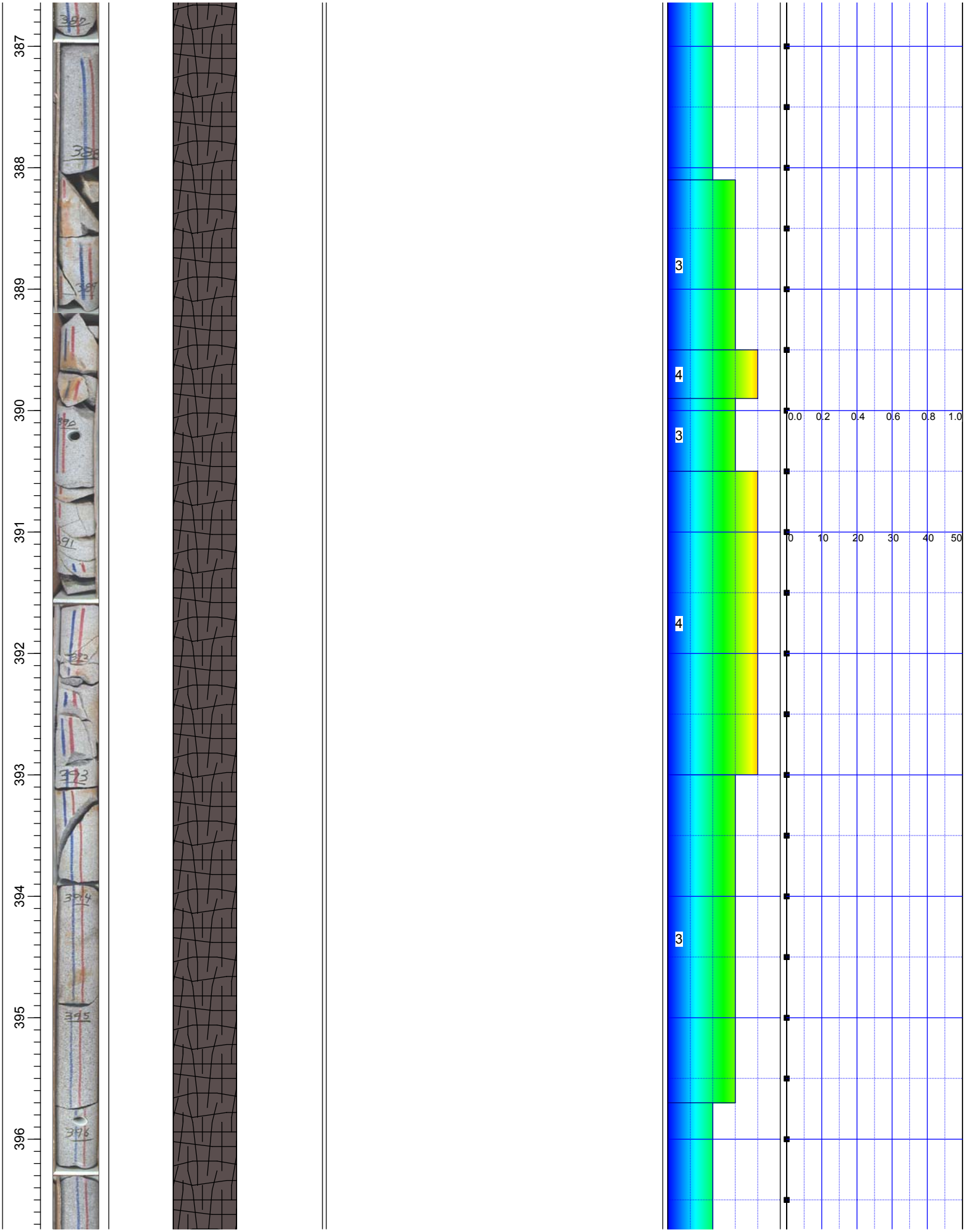
Xenoliths: None noted

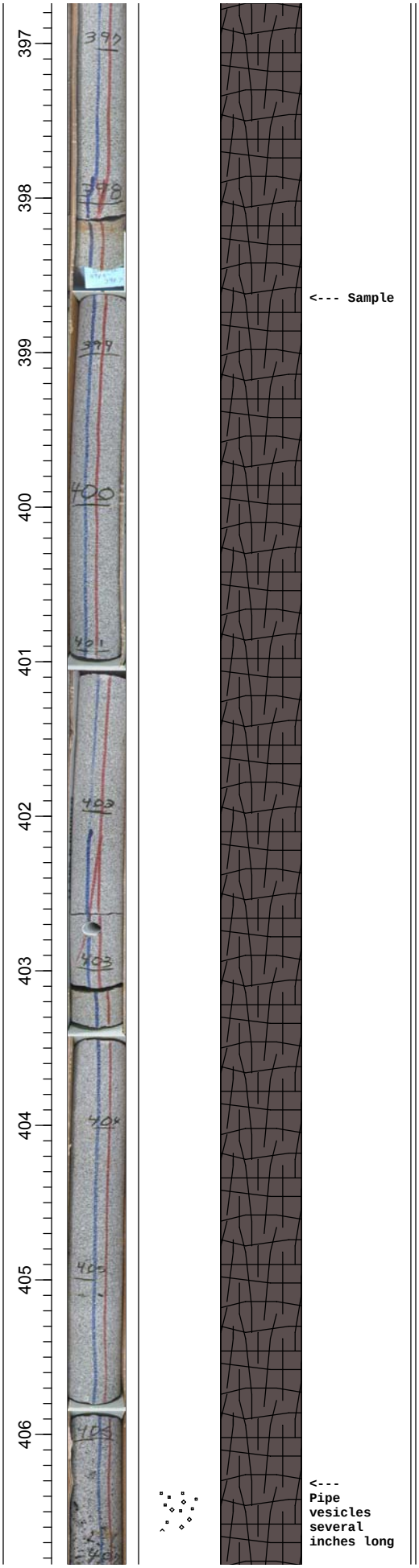
Alteration Activity:
Some fractures and nearby vesicles show infilling with silts and clays in addition to mild bleaching.

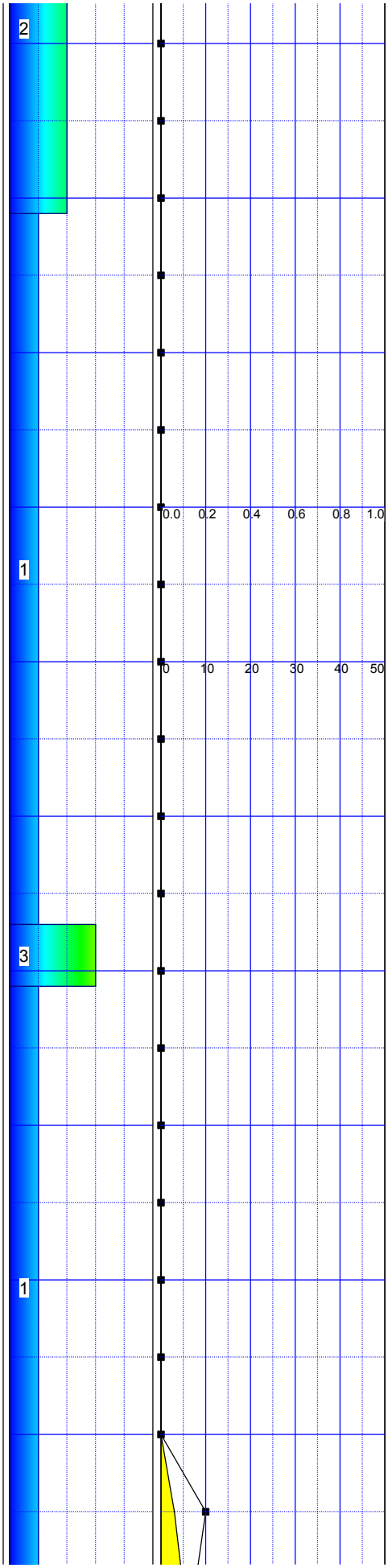


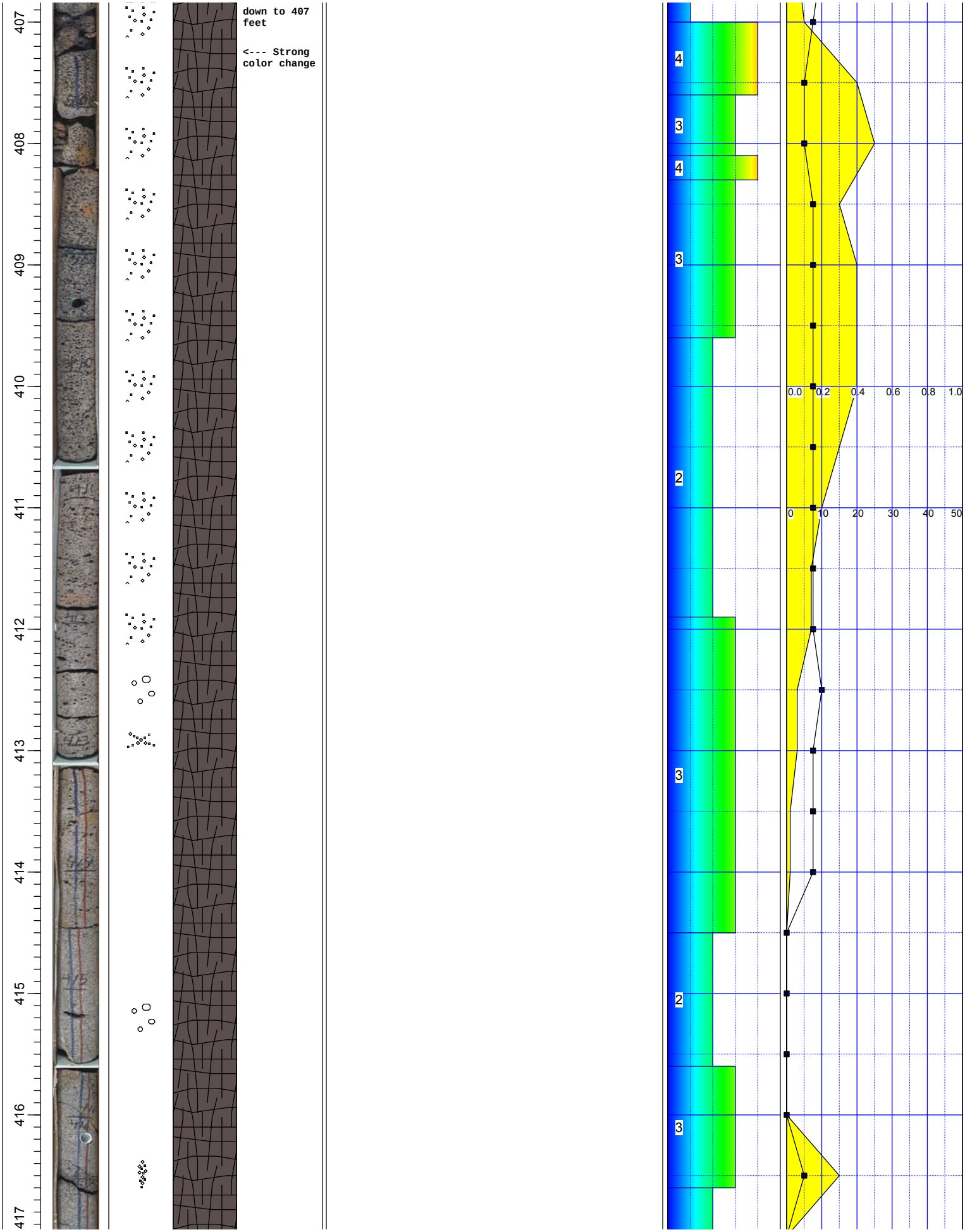

367
368
369
370
371
372
373
374
375
376
4
5
4
2
4
3
4
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

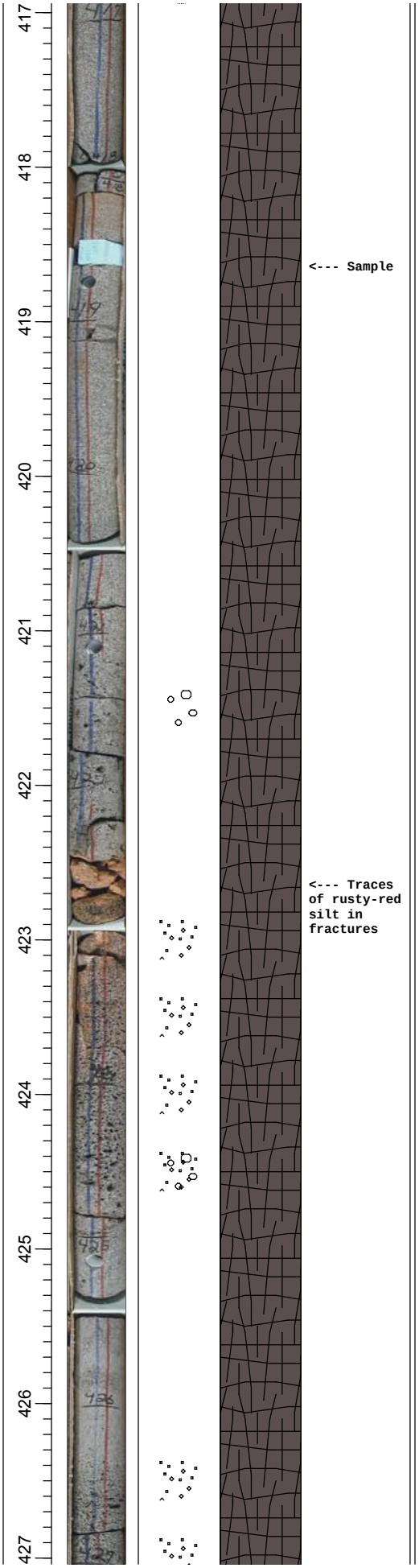

377
378
379
380
381
382
383
384
385
386
4
5
2
4
3
2
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

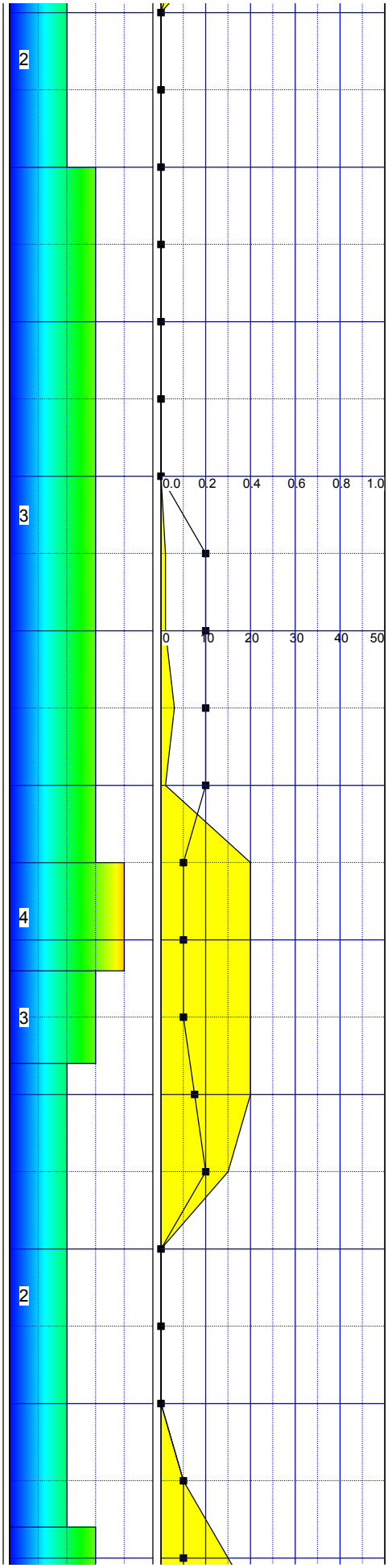

387
388
389
390
391
392
393
394
395
396
3
4
3
4
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

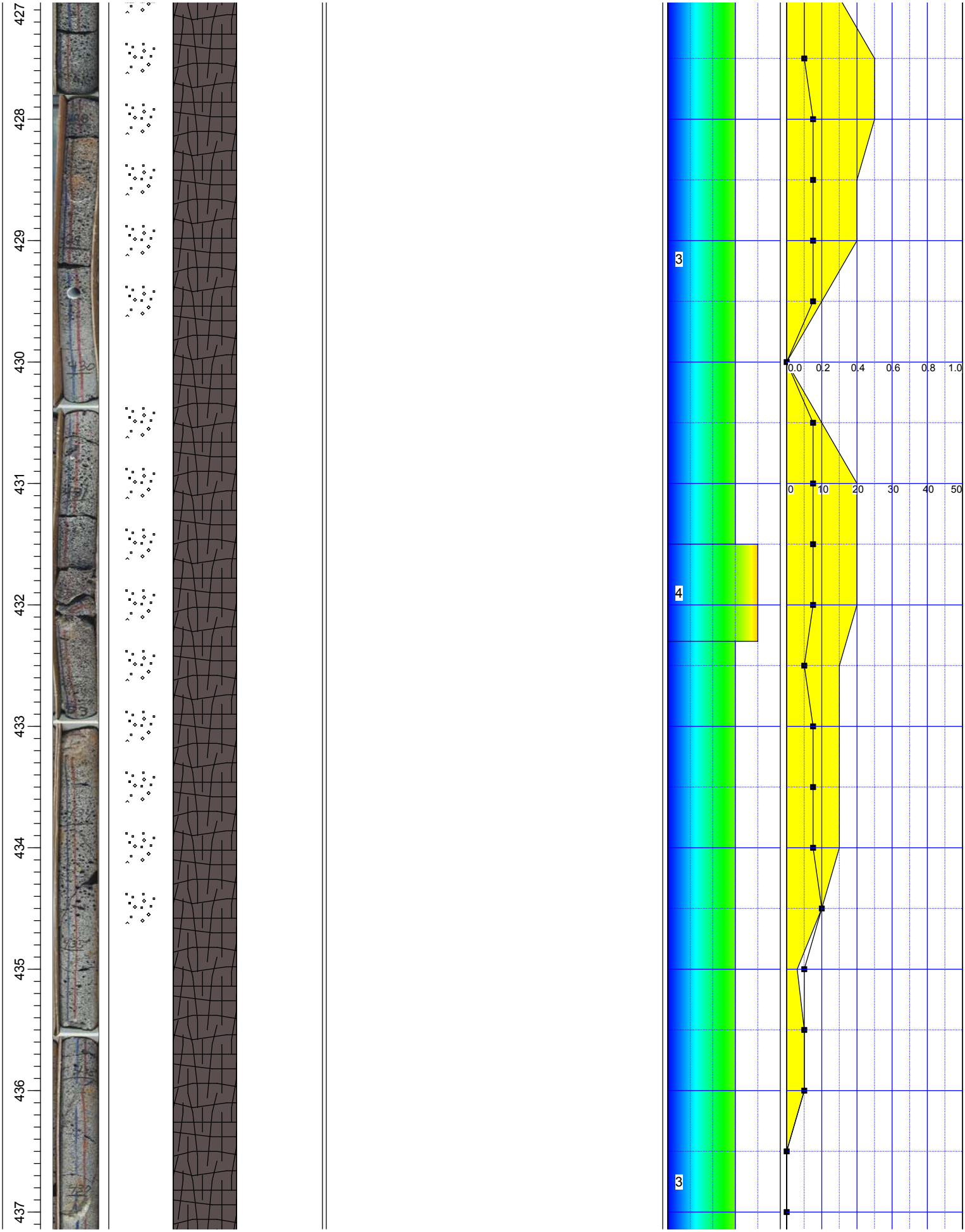

397
398
399
400
401
402
403
404
405
406
<--- Sample
<---
Pipe
vesicles
several
inches long

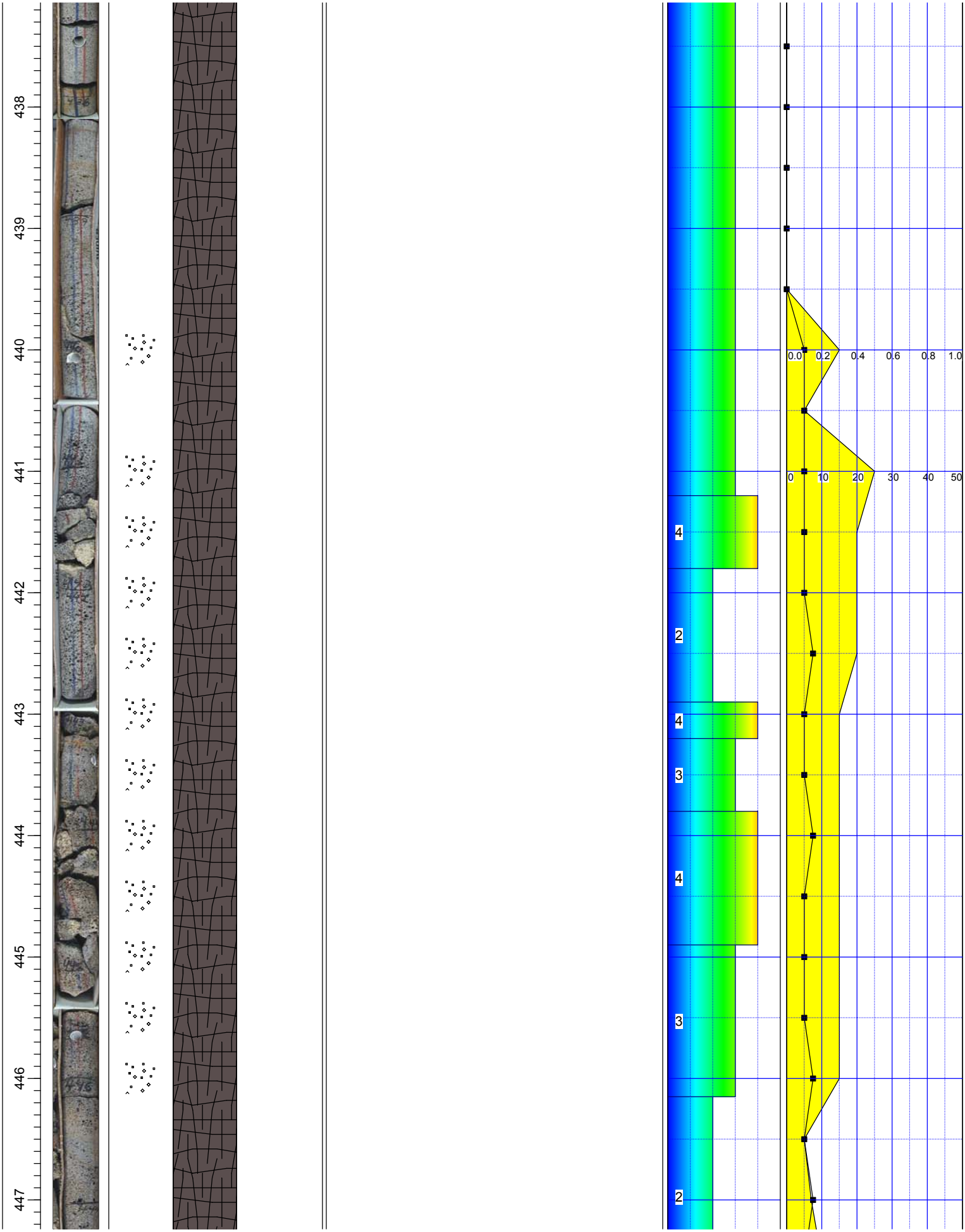

2
1
3
1
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

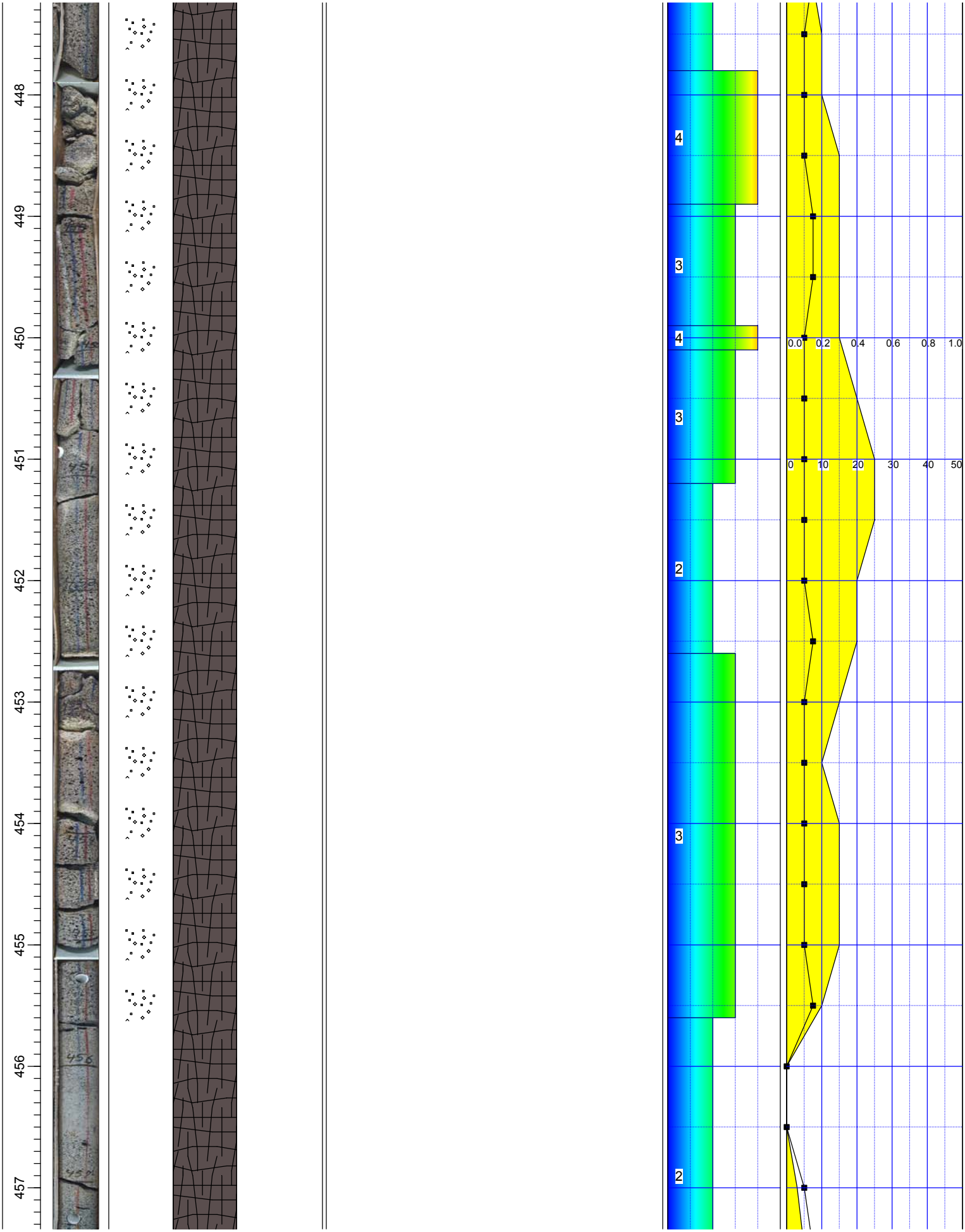

407
408
409
410
411
412
413
414
415
416
417
down to 407 feet
<--- Strong color change
4
3
4
3
2
3
2
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

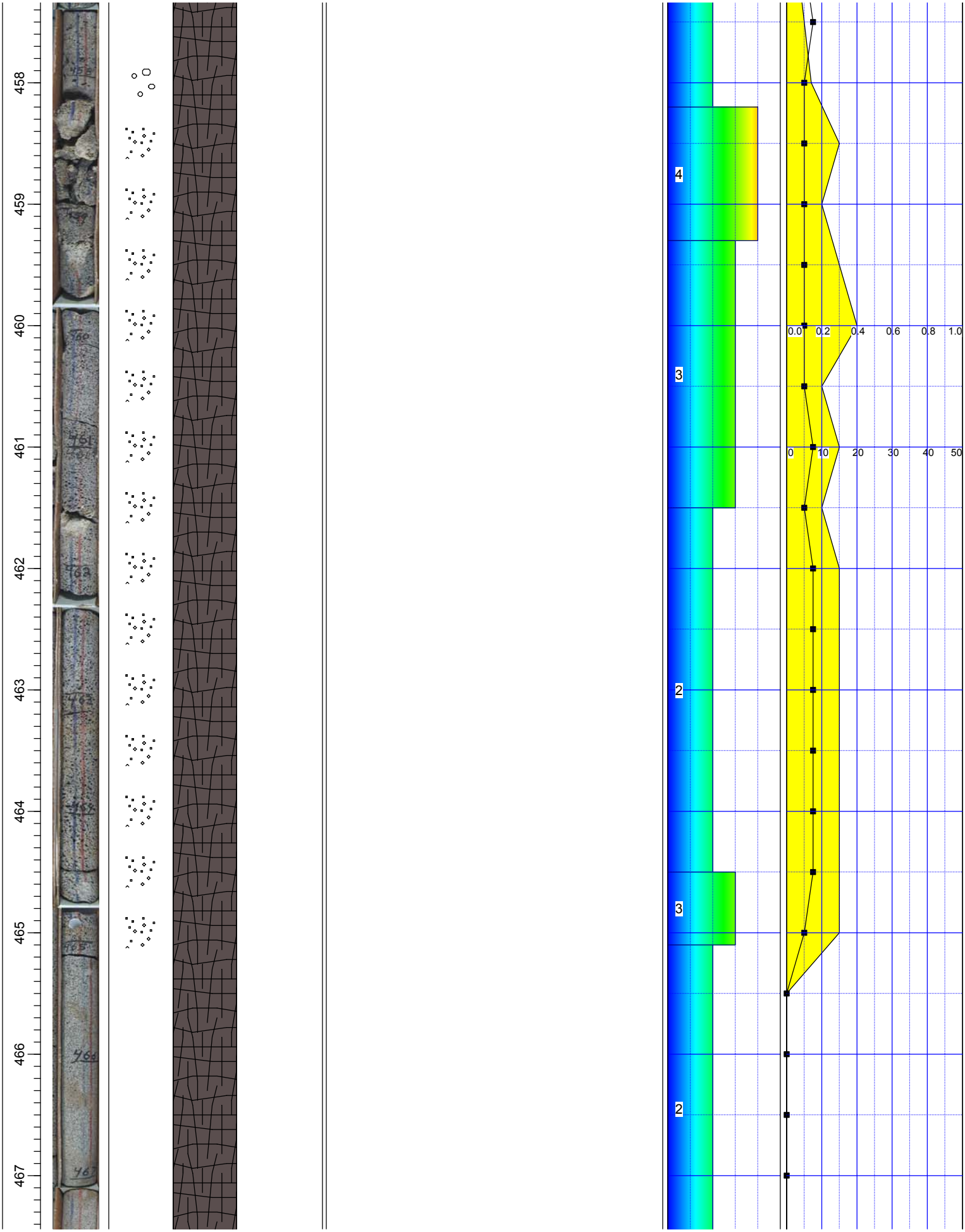

417
418
419
420
421
422
423
424
425
426
427
<--- Sample
<--- Traces of rusty-red silt in fractures

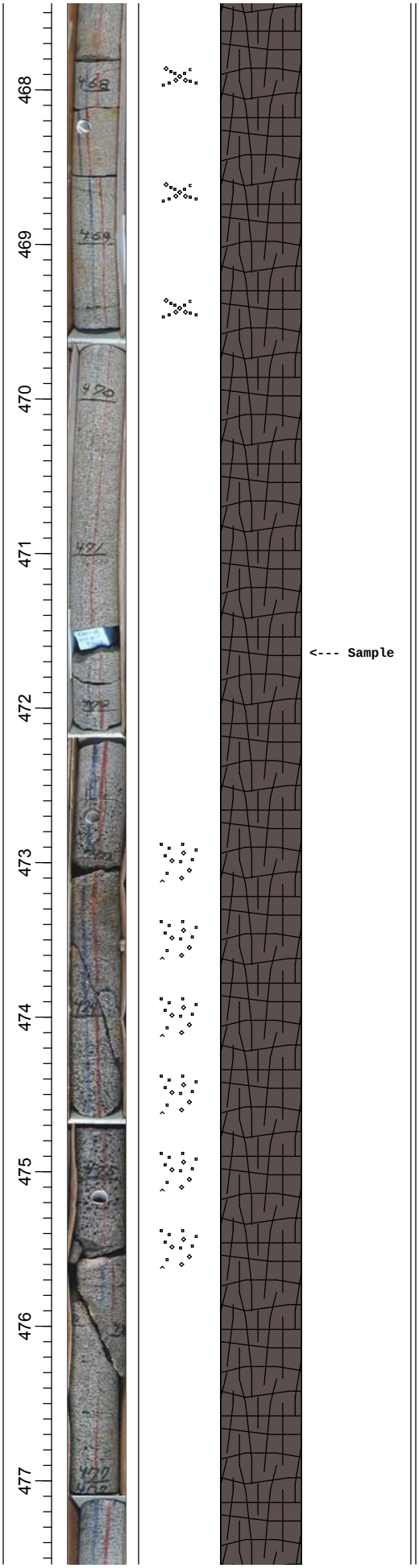

2
3
4
3
2
0.0 0.2 0.4 0.6 0.8 1.0
0 10 20 30 40 50

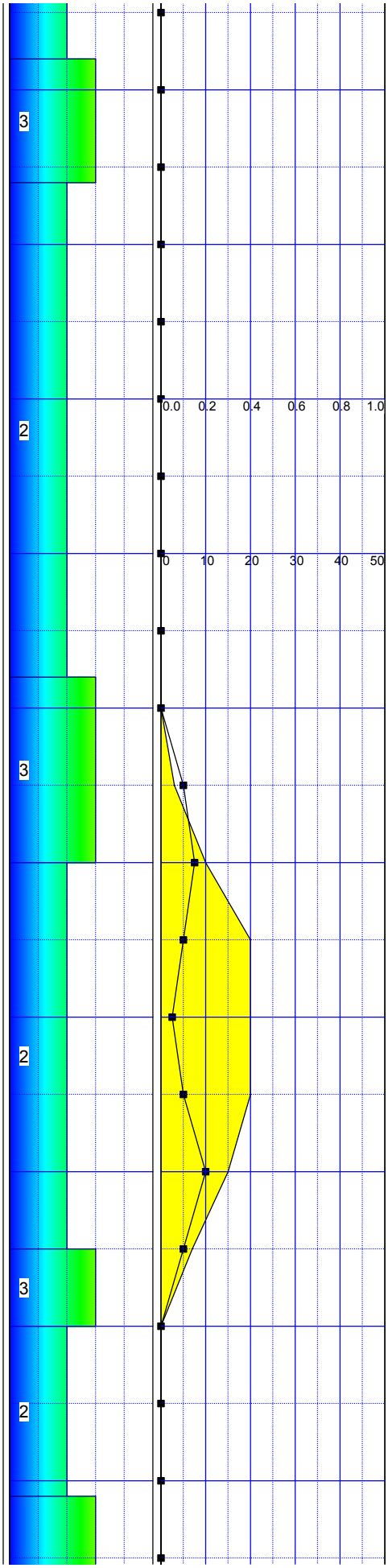

427
428
429
430
431
432
433
434
435
436
437
3
4
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50

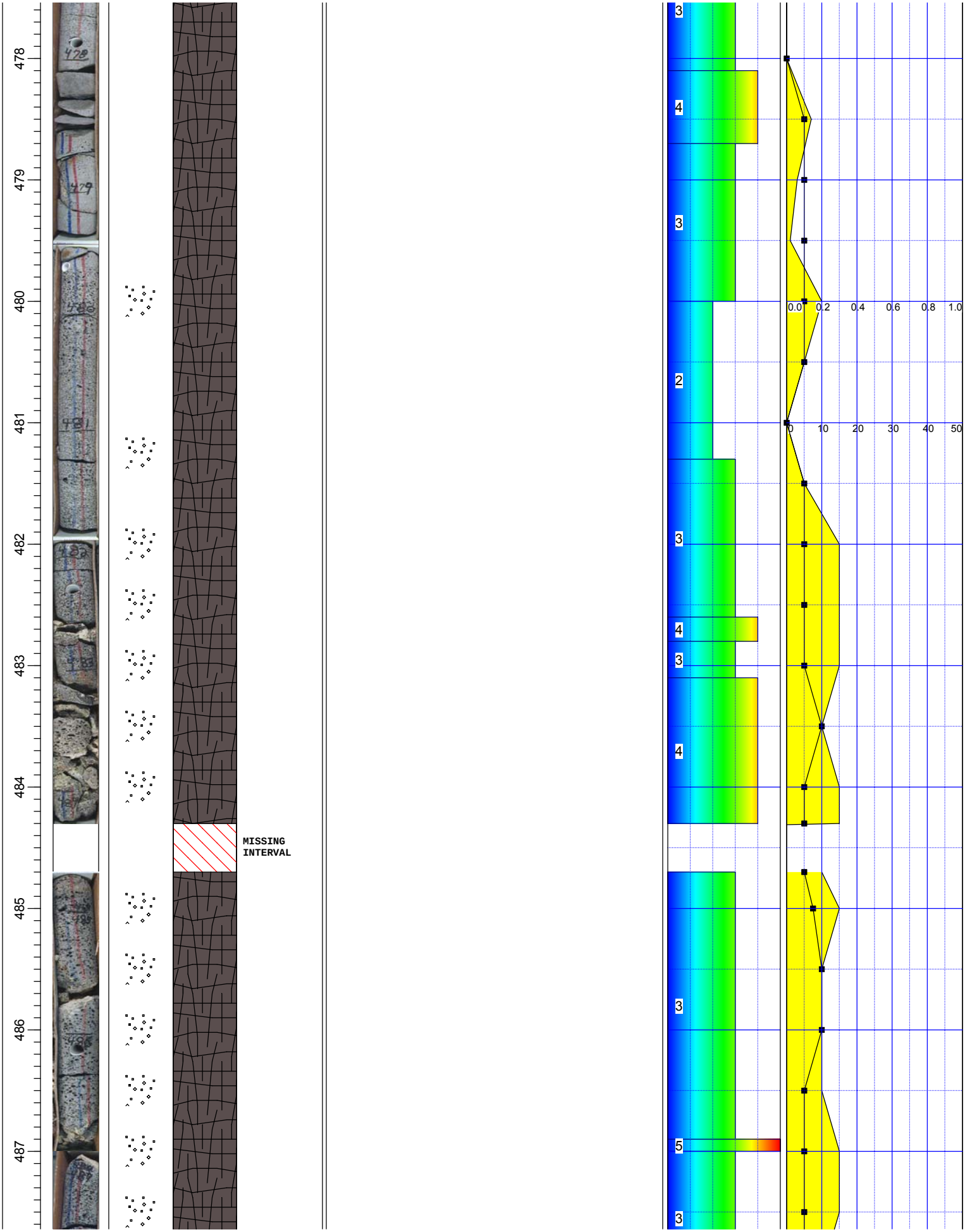

438
439
440
441
442
443
444
445
446
447
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
4
2
4
3
4
3
2

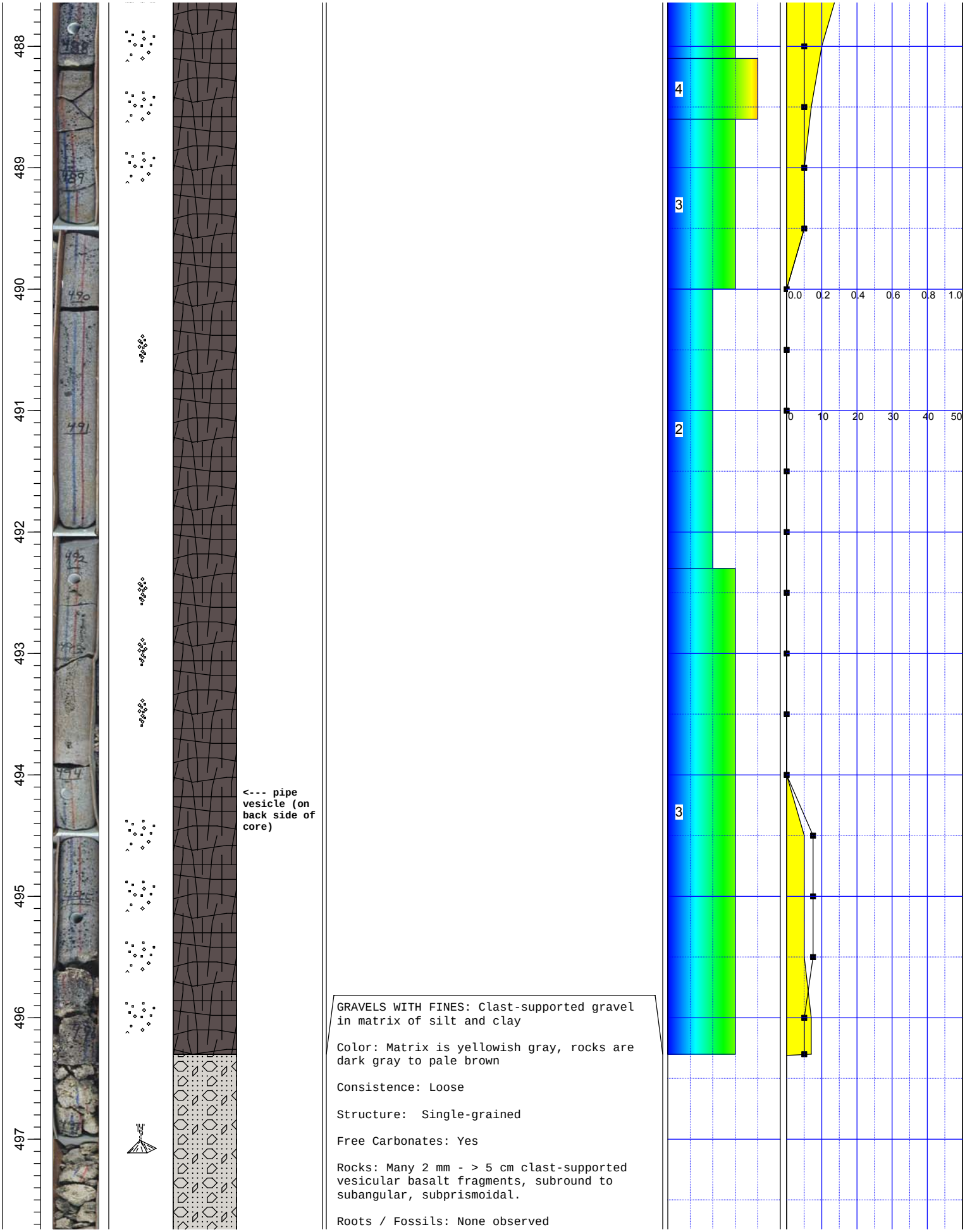

448
449
450
451
452
453
454
455
456
457
4
3
4
3
2
3
2
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


458
459
460
461
462
463
464
465
466
467
4
3
2
3
2
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


468
469
470
471
472
473
474
475
476
477
<--- Sample


3
2
3
2
3
2
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


478
479
480
481
482
483
484
485
486
487
MISSING
INTERVAL
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50



GRAVELS WITH FINES: Clast-supported gravel in matrix of silt and clay

Color: Matrix is yellowish gray, rocks are dark gray to pale brown

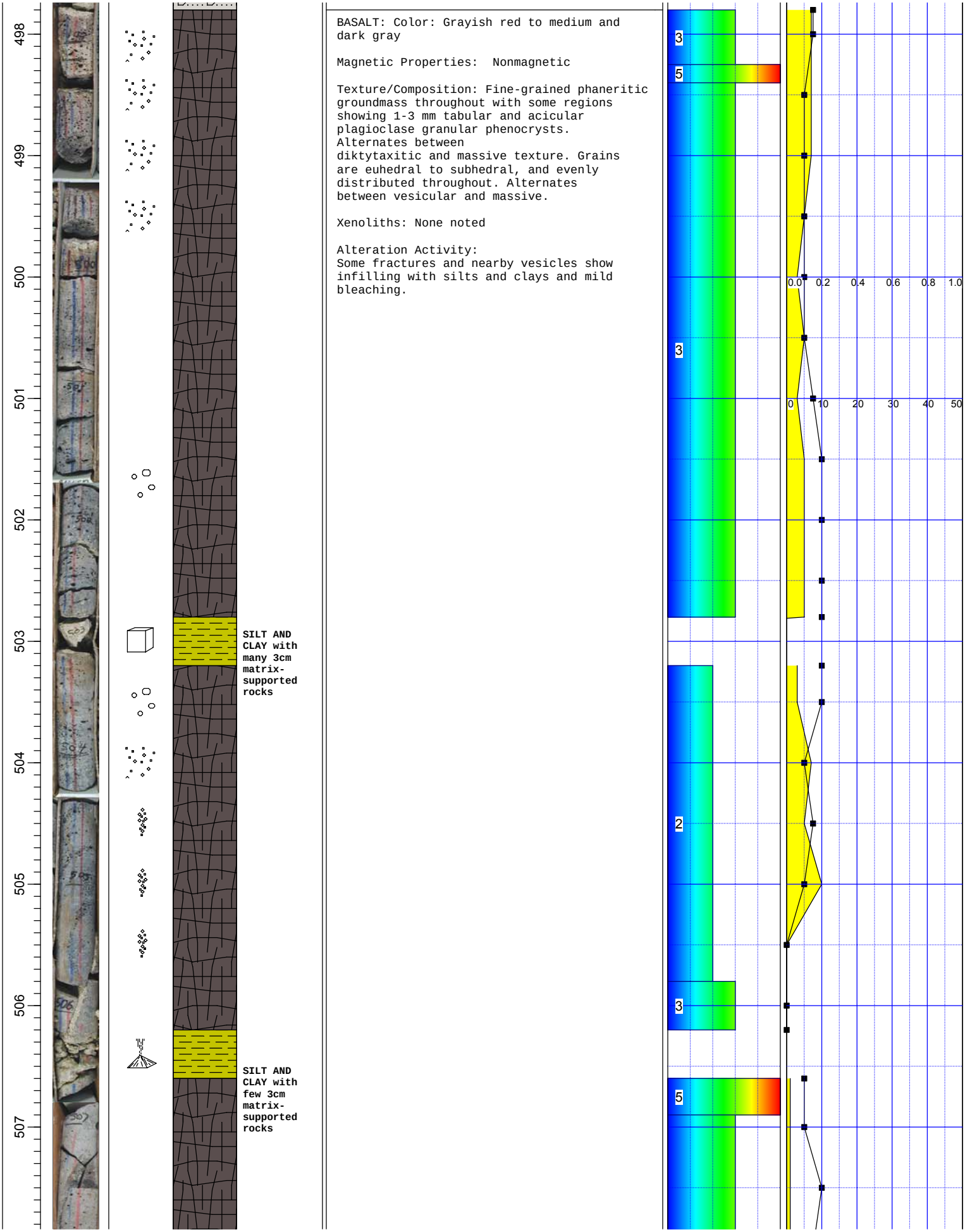
Consistence: Loose

Structure: Single-grained

Free Carbonates: Yes

Rocks: Many 2 mm - > 5 cm clast-supported vesicular basalt fragments, subround to subangular, subprismoidal.

Roots / Fossils: None observed



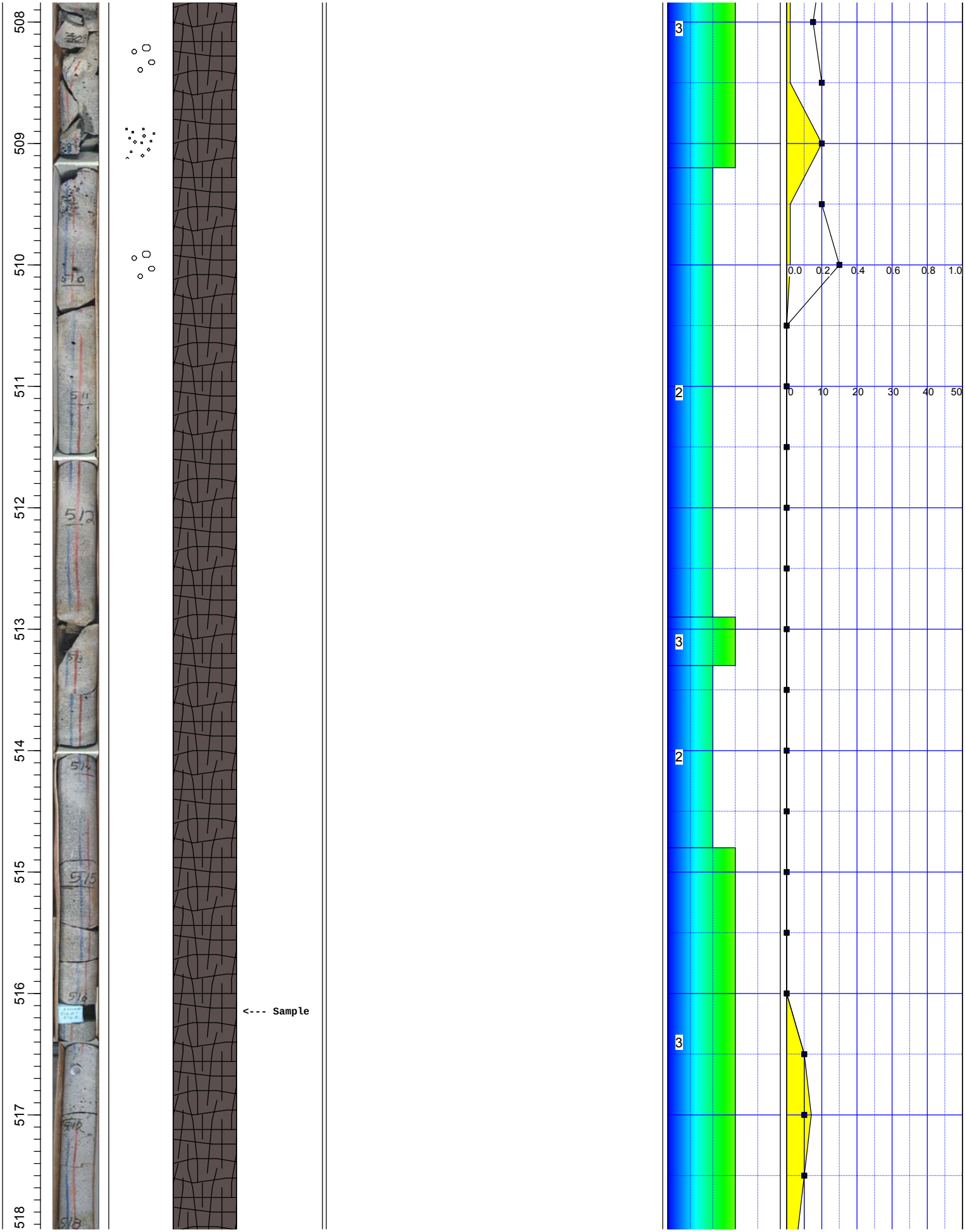
BASALT: Color: Grayish red to medium and dark gray

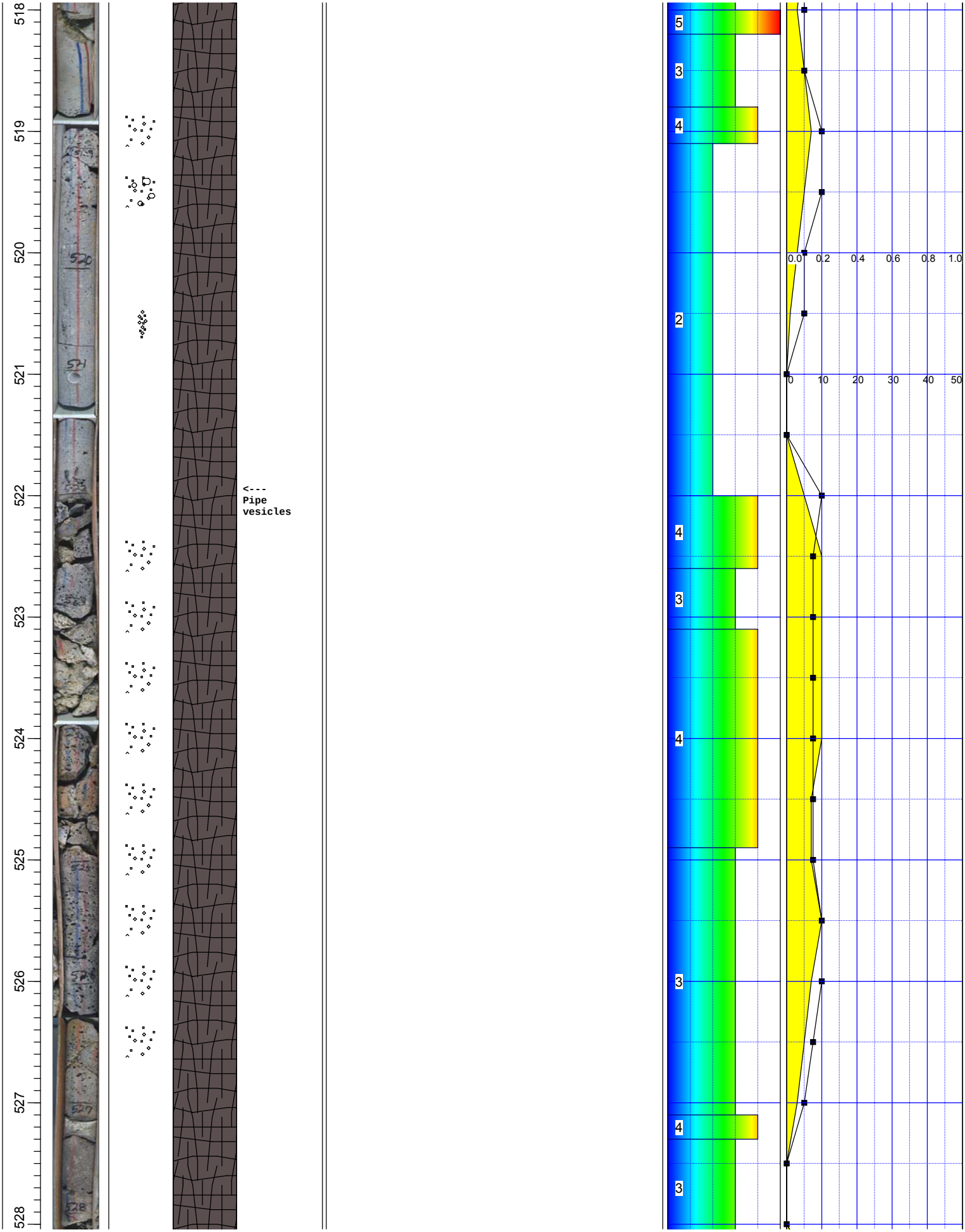
Magnetic Properties: Nonmagnetic

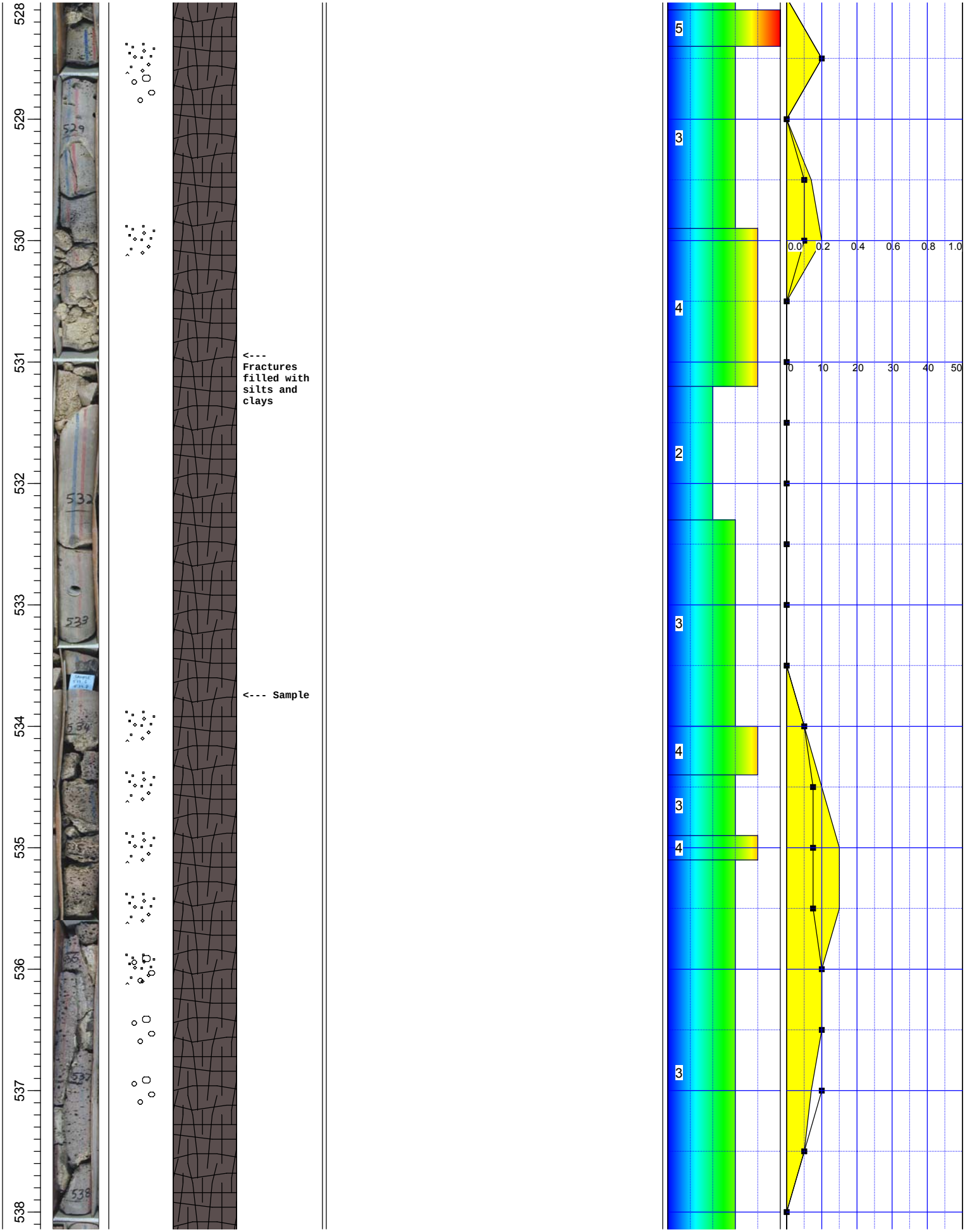
Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3 mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

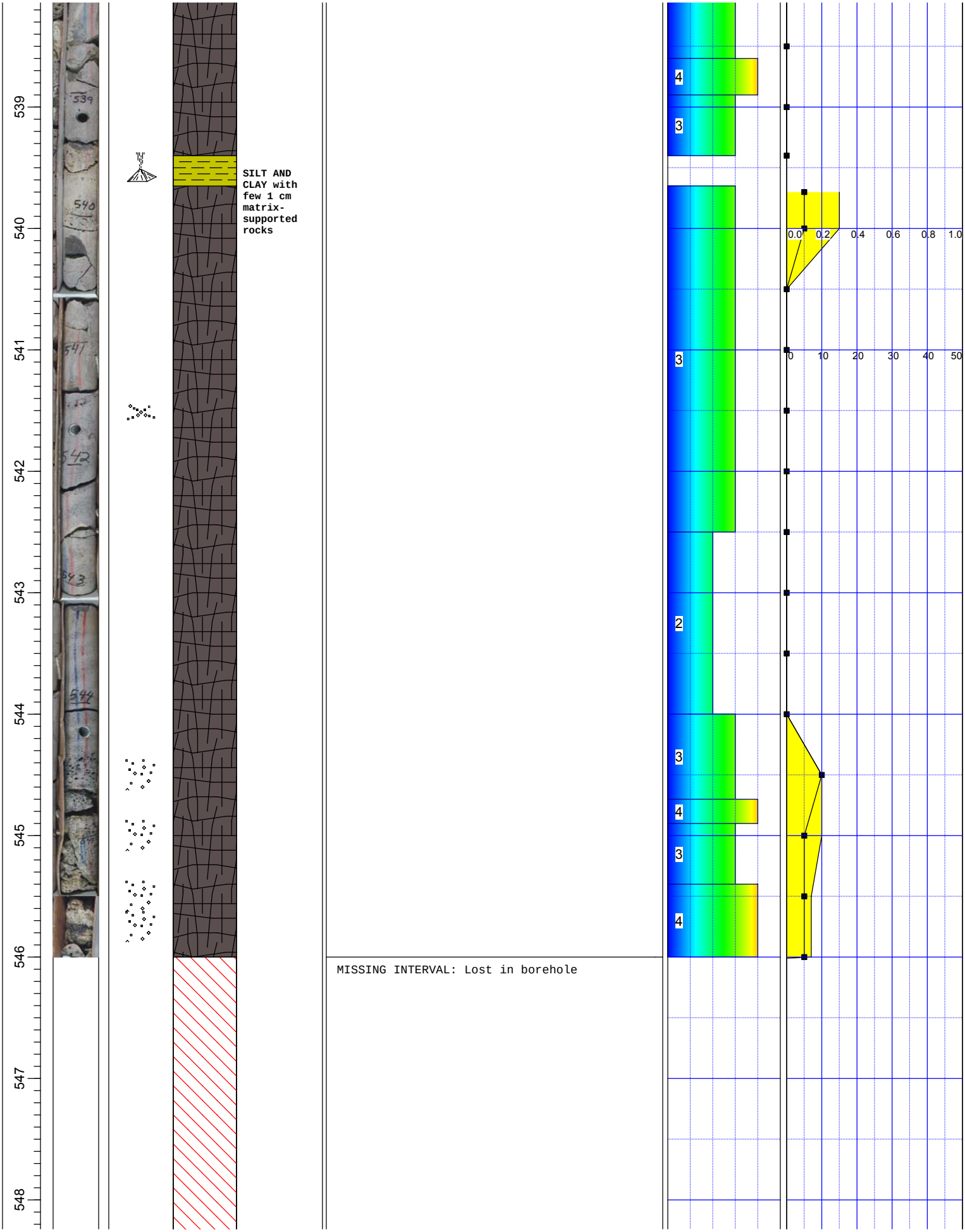
Xenoliths: None noted

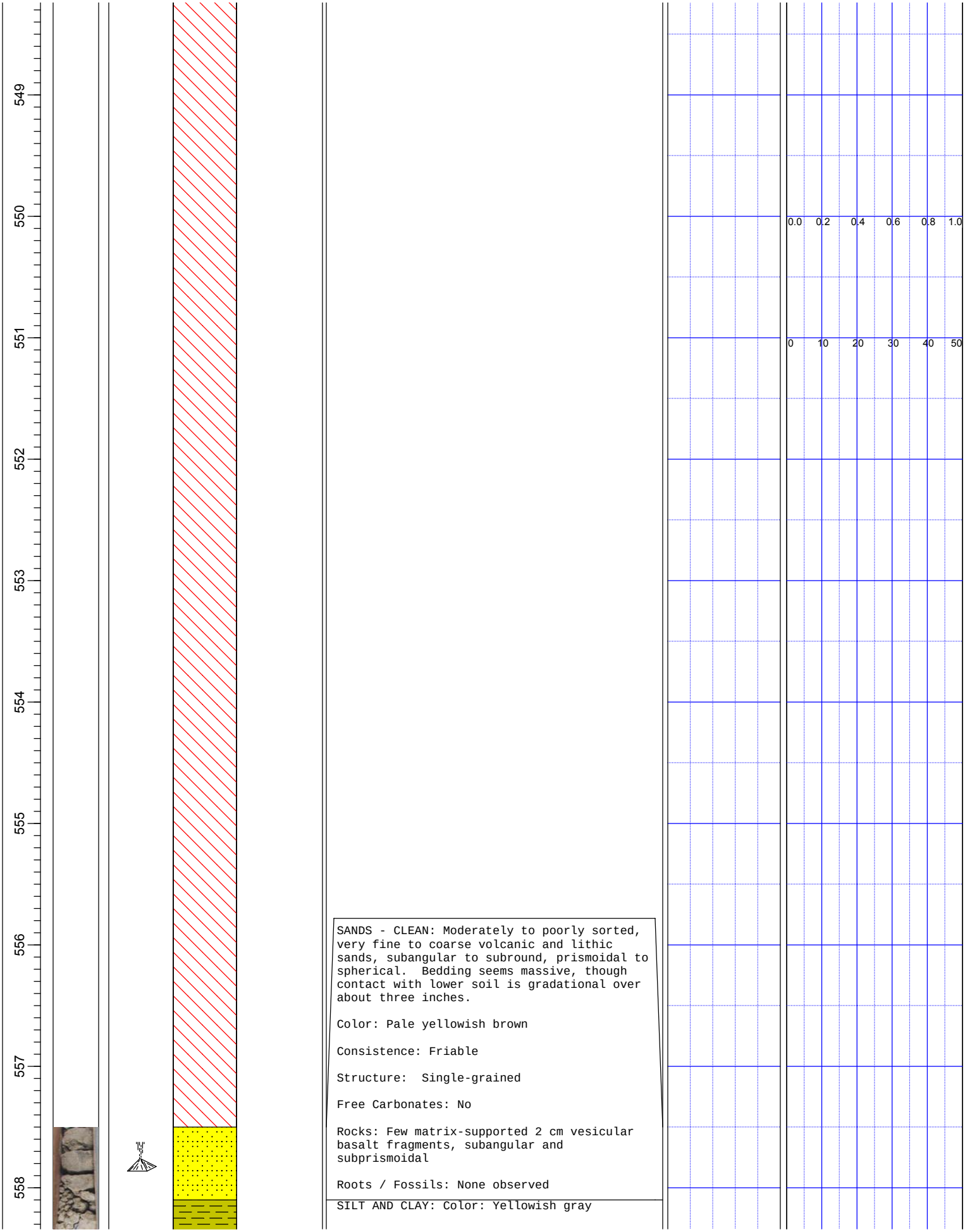
Alteration Activity:
Some fractures and nearby vesicles show infilling with silts and clays and mild bleaching.


508
509
510
511
512
513
514
515
516
517
518
<--- Sample
3
2
3
2
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


518
519
520
521
522
523
524
525
526
527
528
<--- Pipe vesicles
5
3
4
2
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


528
529
530
531
532
533
534
535
536
537
538
<--- Fractures filled with silts and clays
<--- Sample
5
3
4
2
3
4
3
4
3
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50


539
540
541
542
543
544
545
546
547
548
SILT AND CLAY with few 1 cm matrix-supported rocks
MISSING INTERVAL: Lost in borehole
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50



SANDS - CLEAN: Moderately to poorly sorted, very fine to coarse volcanic and lithic sands, subangular to subround, prismoidal to spherical. Bedding seems massive, though contact with lower soil is gradational over about three inches.

Color: Pale yellowish brown

Consistence: Friable

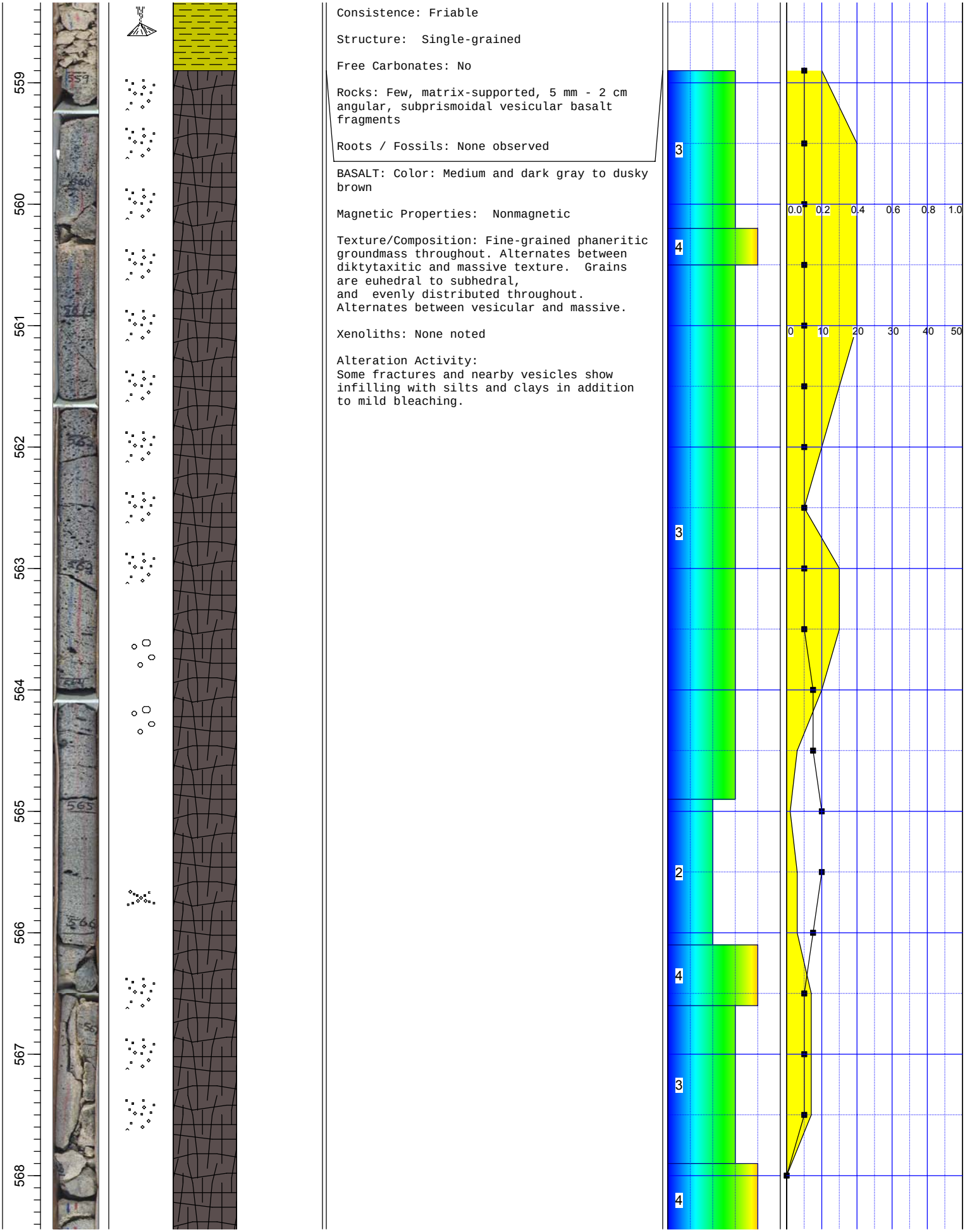
Structure: Single-grained

Free Carbonates: No

Rocks: Few matrix-supported 2 cm vesicular basalt fragments, subangular and subprismoidal

Roots / Fossils: None observed

SILT AND CLAY: Color: Yellowish gray



Consistence: Friable

Structure: Single-grained

Free Carbonates: No

Rocks: Few, matrix-supported, 5 mm - 2 cm angular, subprismoidal vesicular basalt fragments

Roots / Fossils: None observed

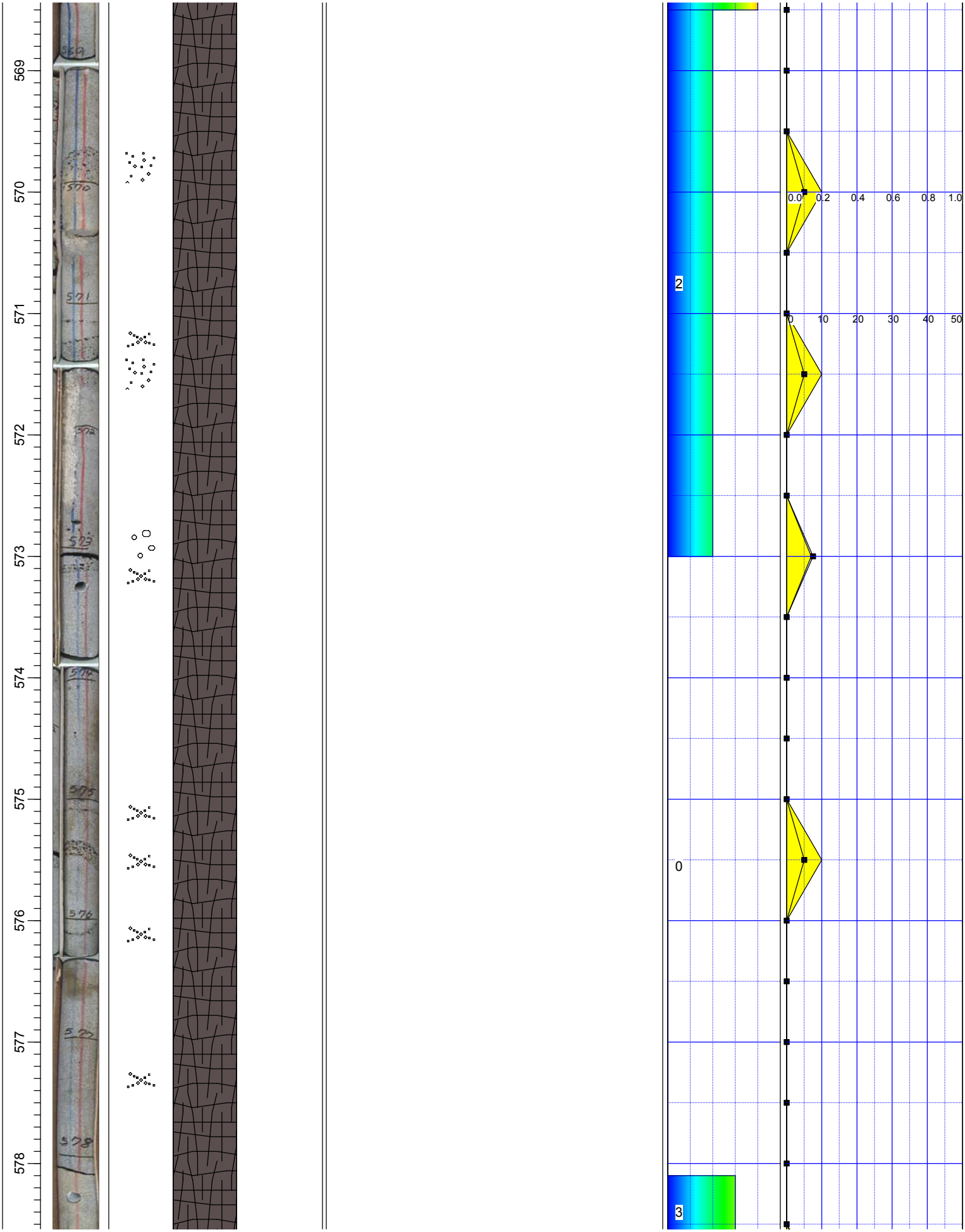
BASALT: Color: Medium and dark gray to dusky brown

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

Alteration Activity:
Some fractures and nearby vesicles show infilling with silts and clays in addition to mild bleaching.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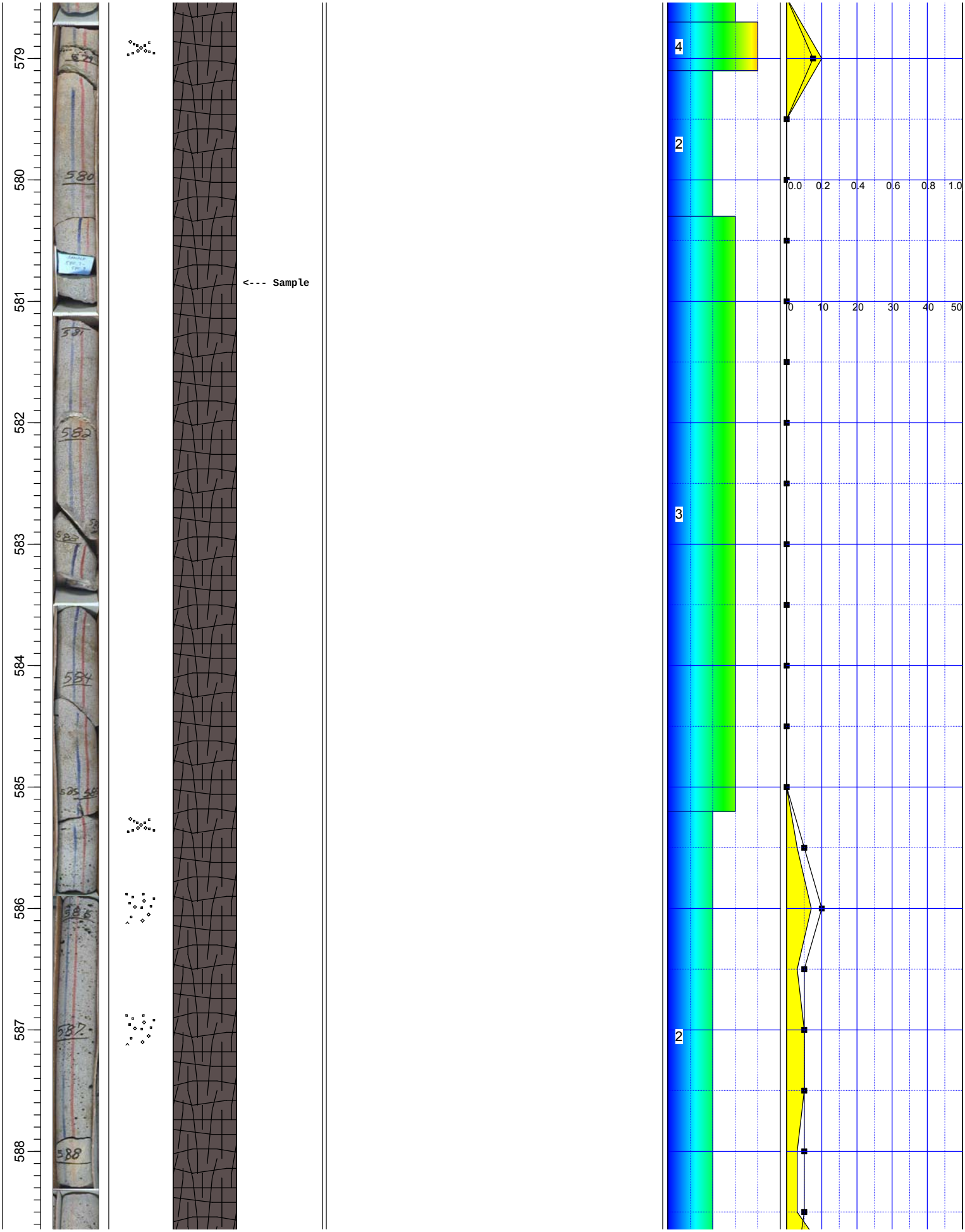
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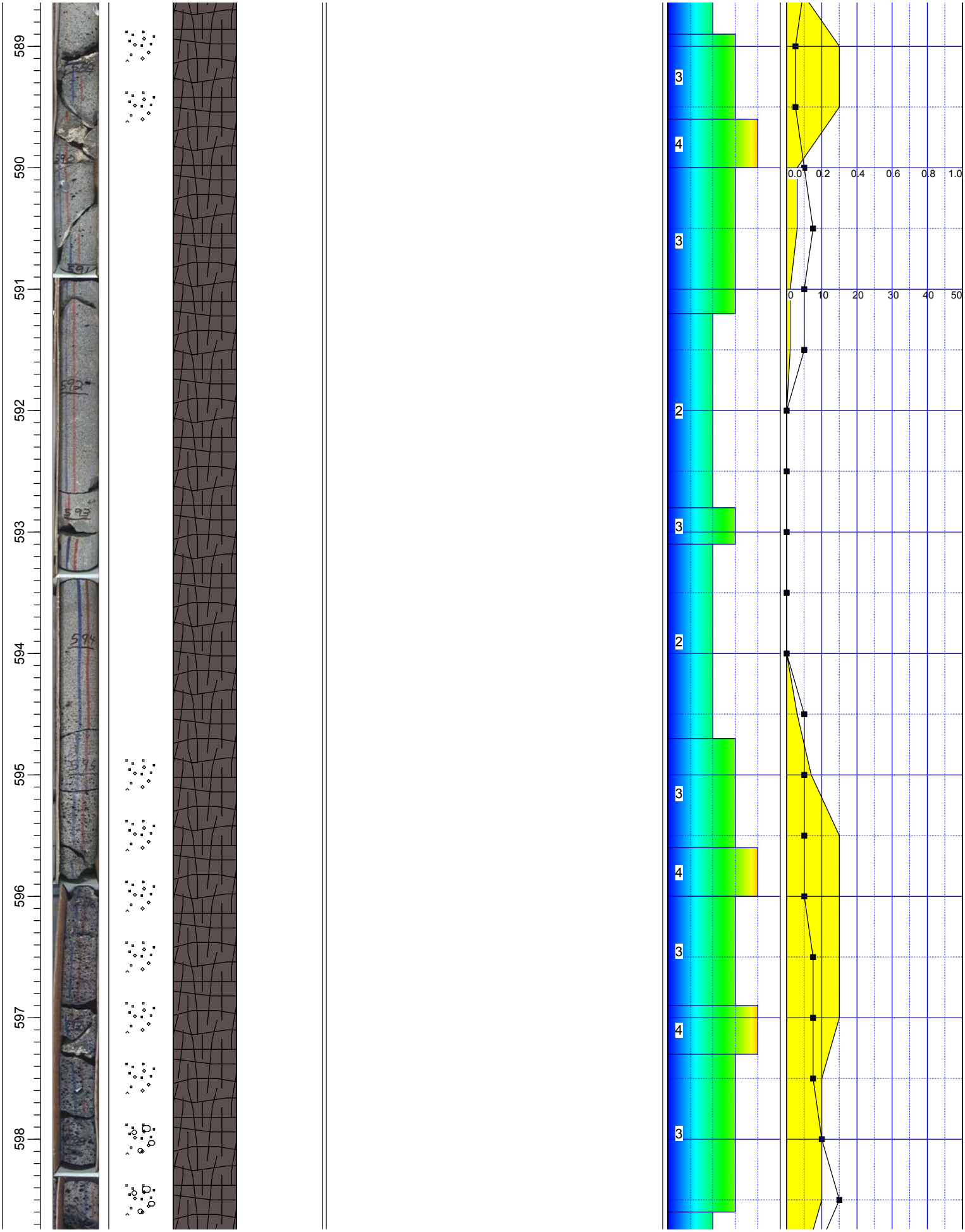
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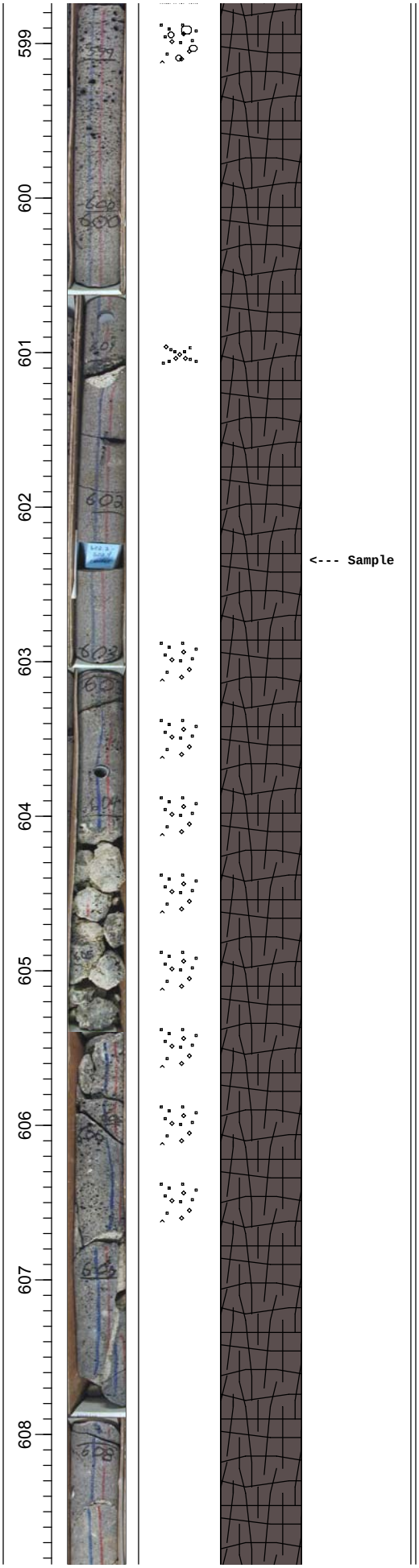
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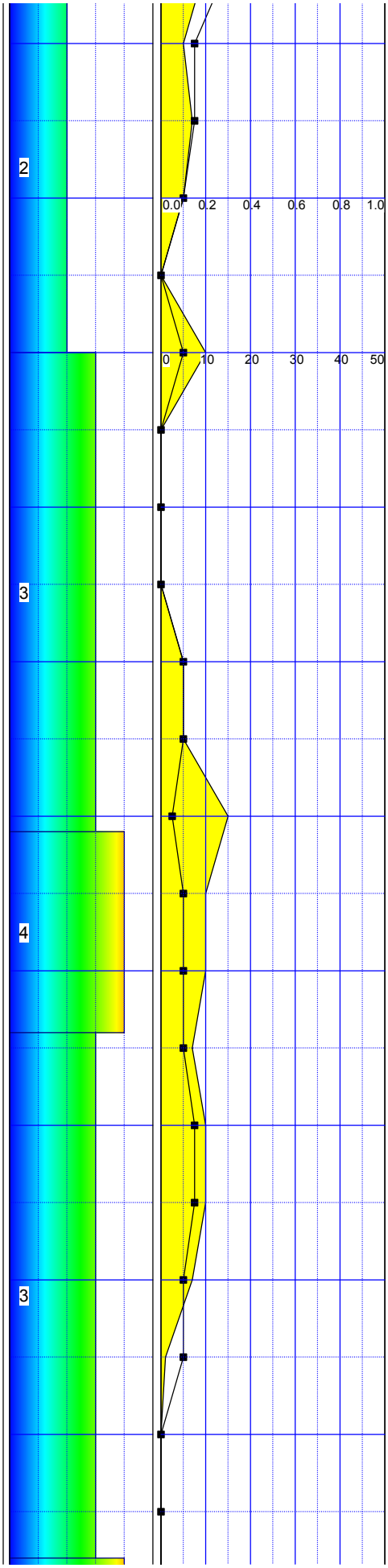
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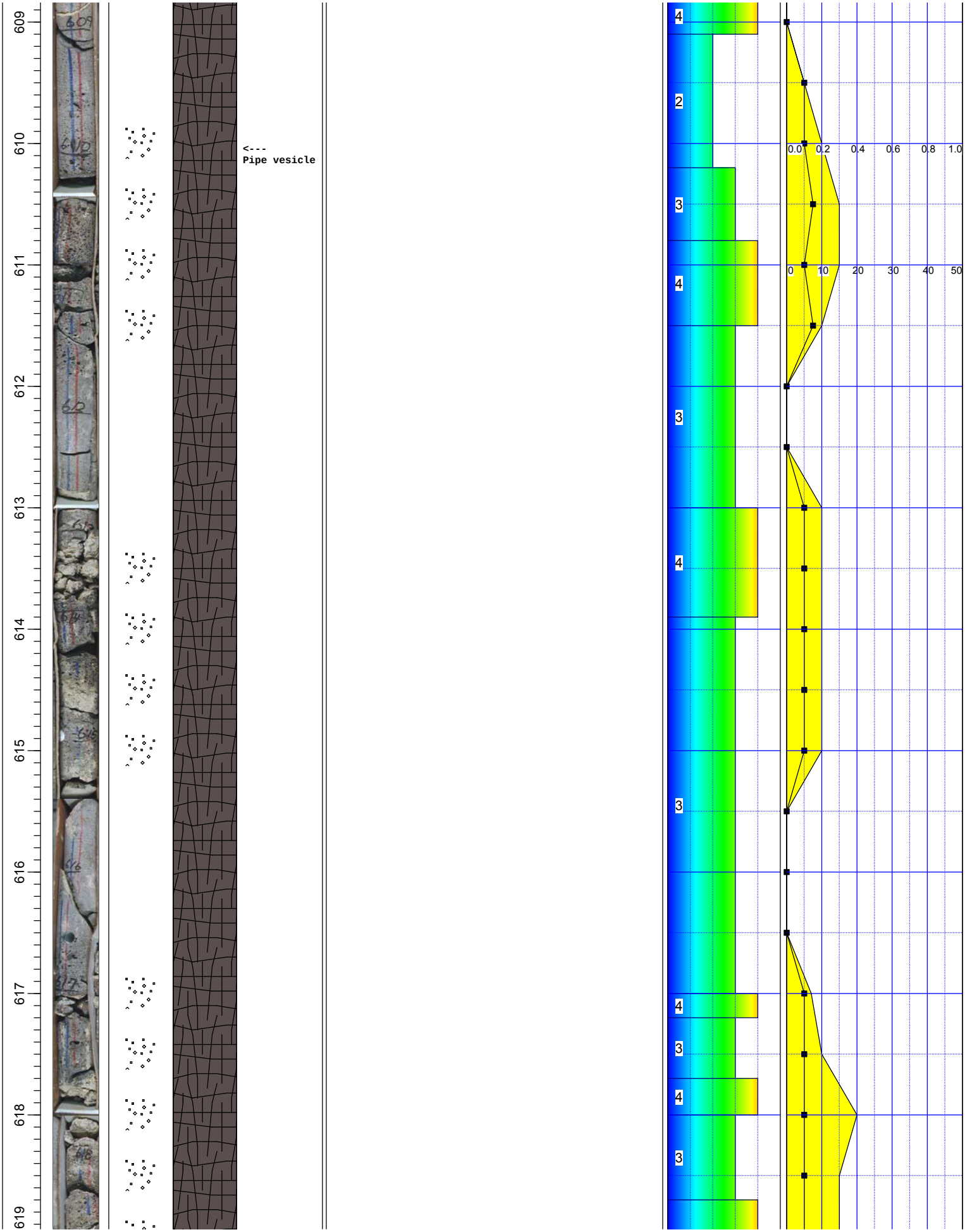
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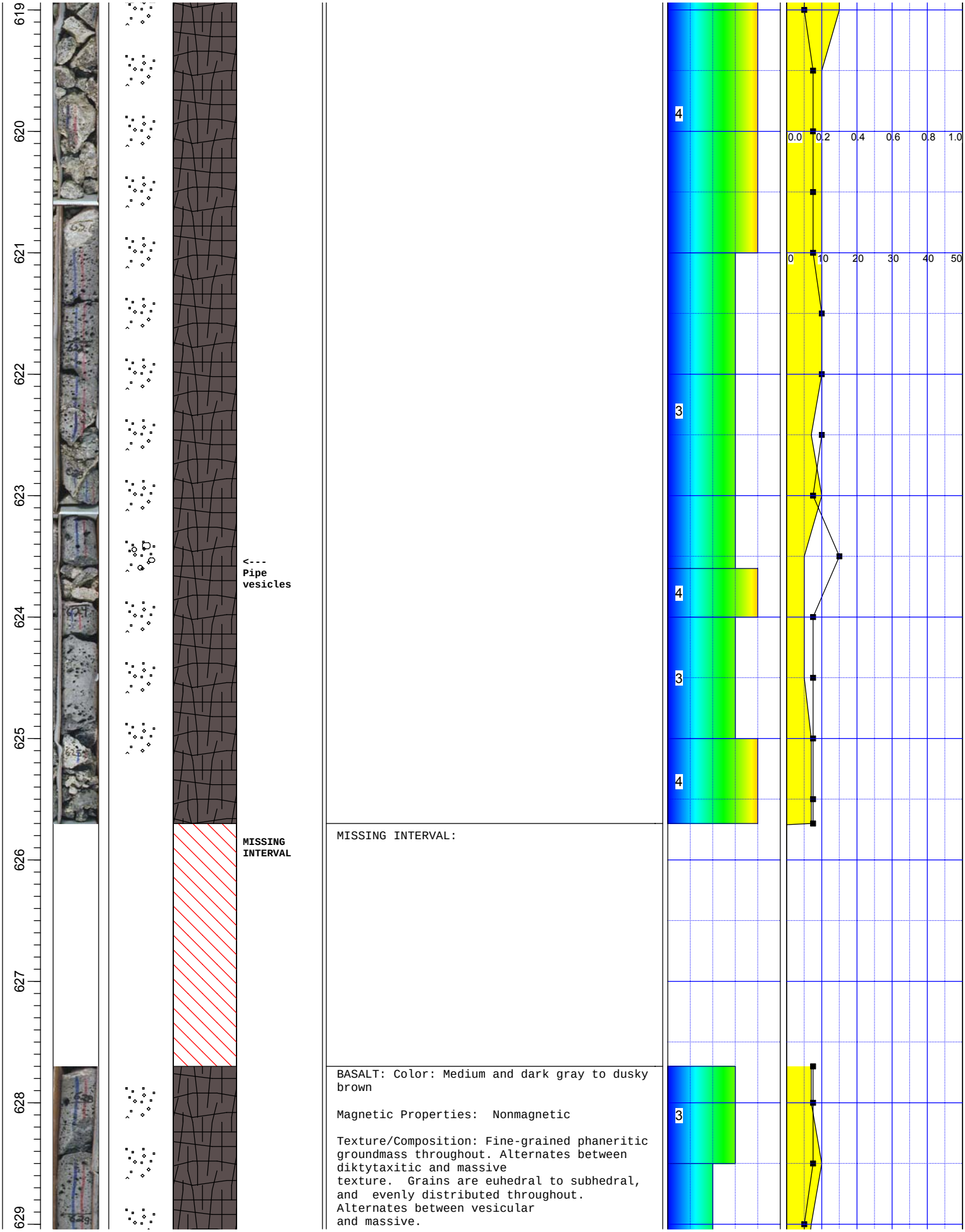
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<--- Pipe vesicles
MISSING INTERVAL
MISSING INTERVAL:
BASALT: Color: Medium and dark gray to dusky brown
Magnetic Properties: Nonmagnetic
Texture/Composition: Fine-grained phaneritic groundmass throughout. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.
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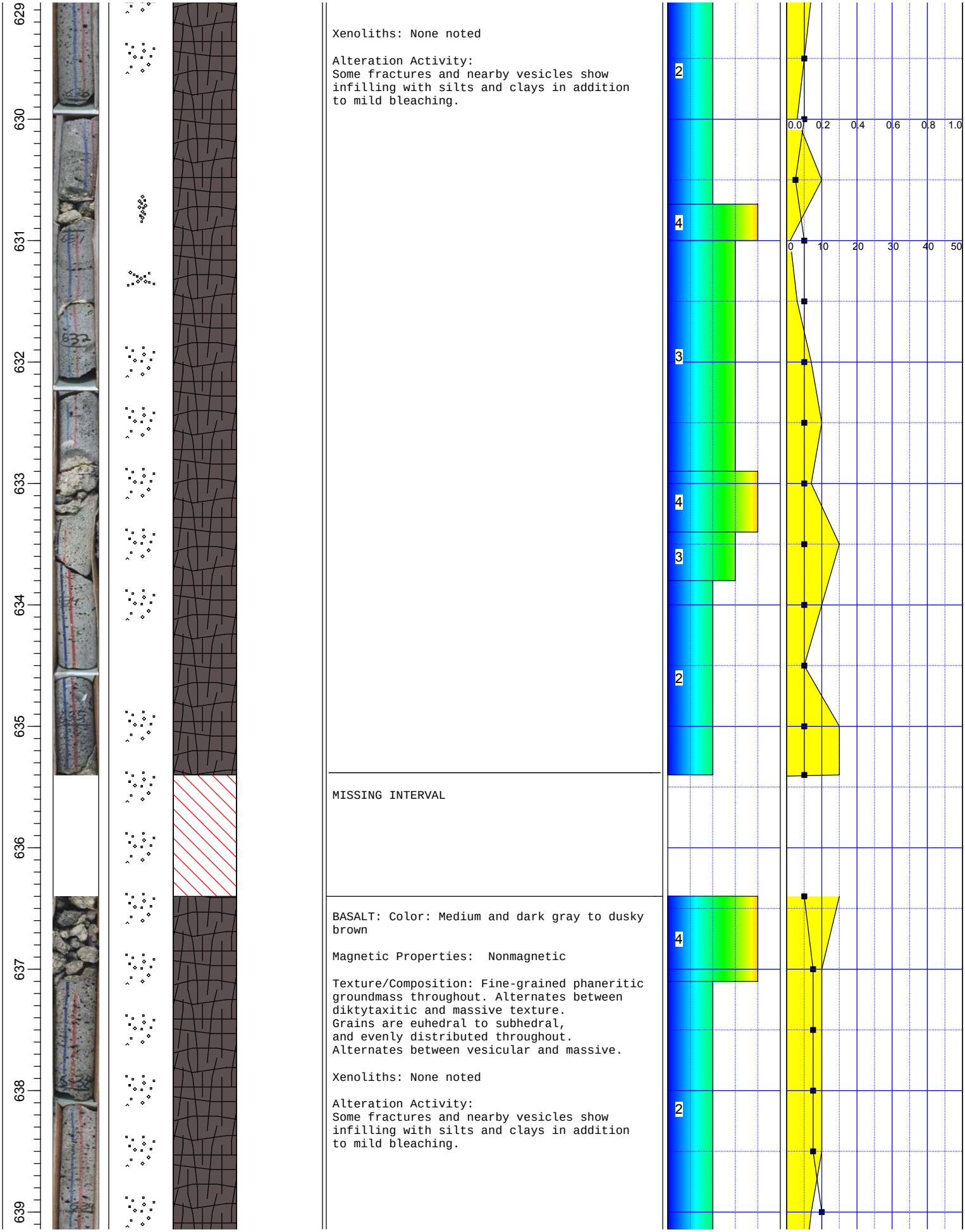
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Xenoliths: None noted
Alteration Activity:
Some fractures and nearby vesicles show infilling with silts and clays in addition to mild bleaching.
MISSING INTERVAL
BASALT: Color: Medium and dark gray to dusky brown
Magnetic Properties: Nonmagnetic
Texture/Composition: Fine-grained phaneritic groundmass throughout. Alternates between diktytaxitic and massive texture.
Grains are euhedral to subhedral, and evenly distributed throughout.
Alternates between vesicular and massive.
Xenoliths: None noted
Alteration Activity:
Some fractures and nearby vesicles show infilling with silts and clays in addition to mild bleaching.
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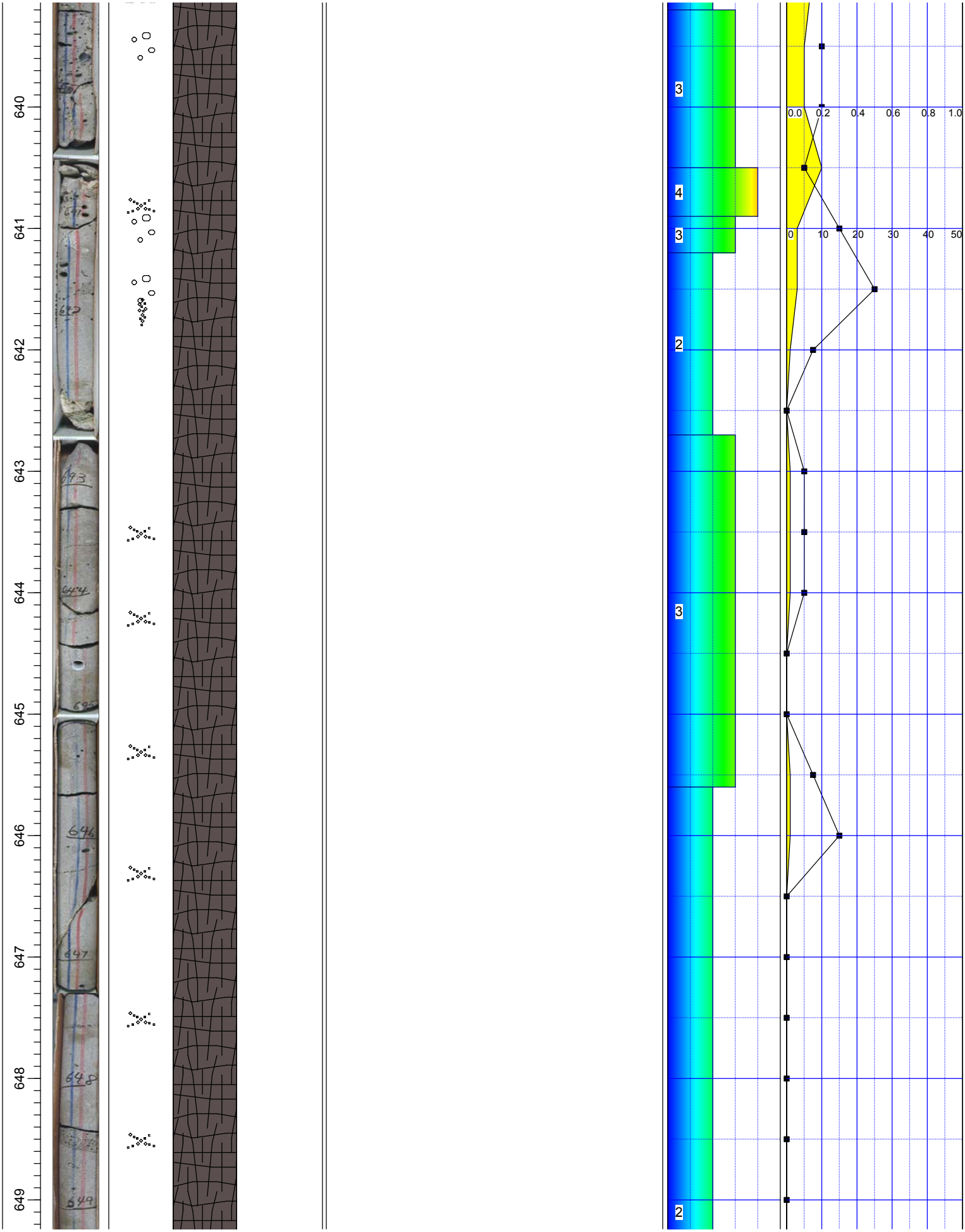
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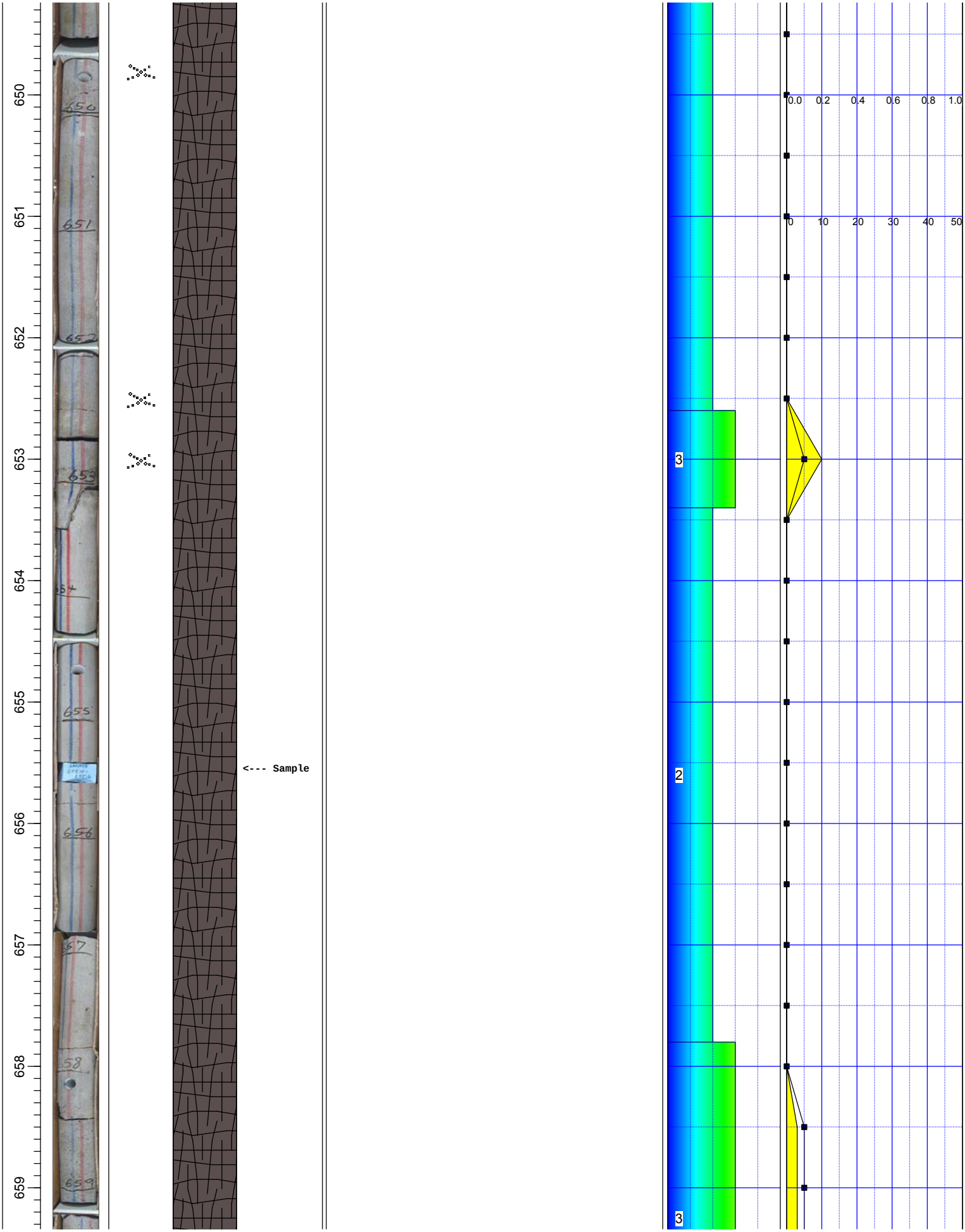
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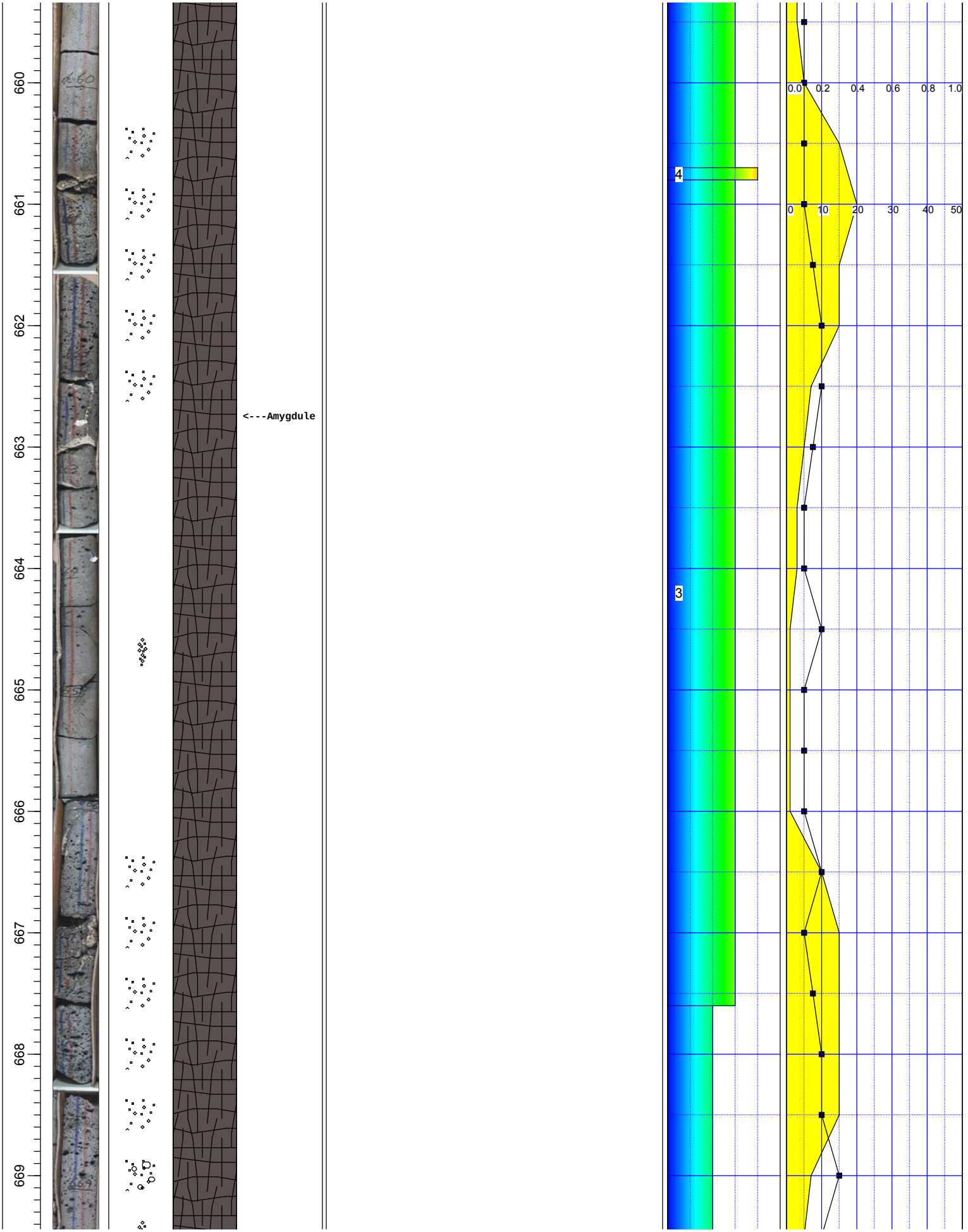
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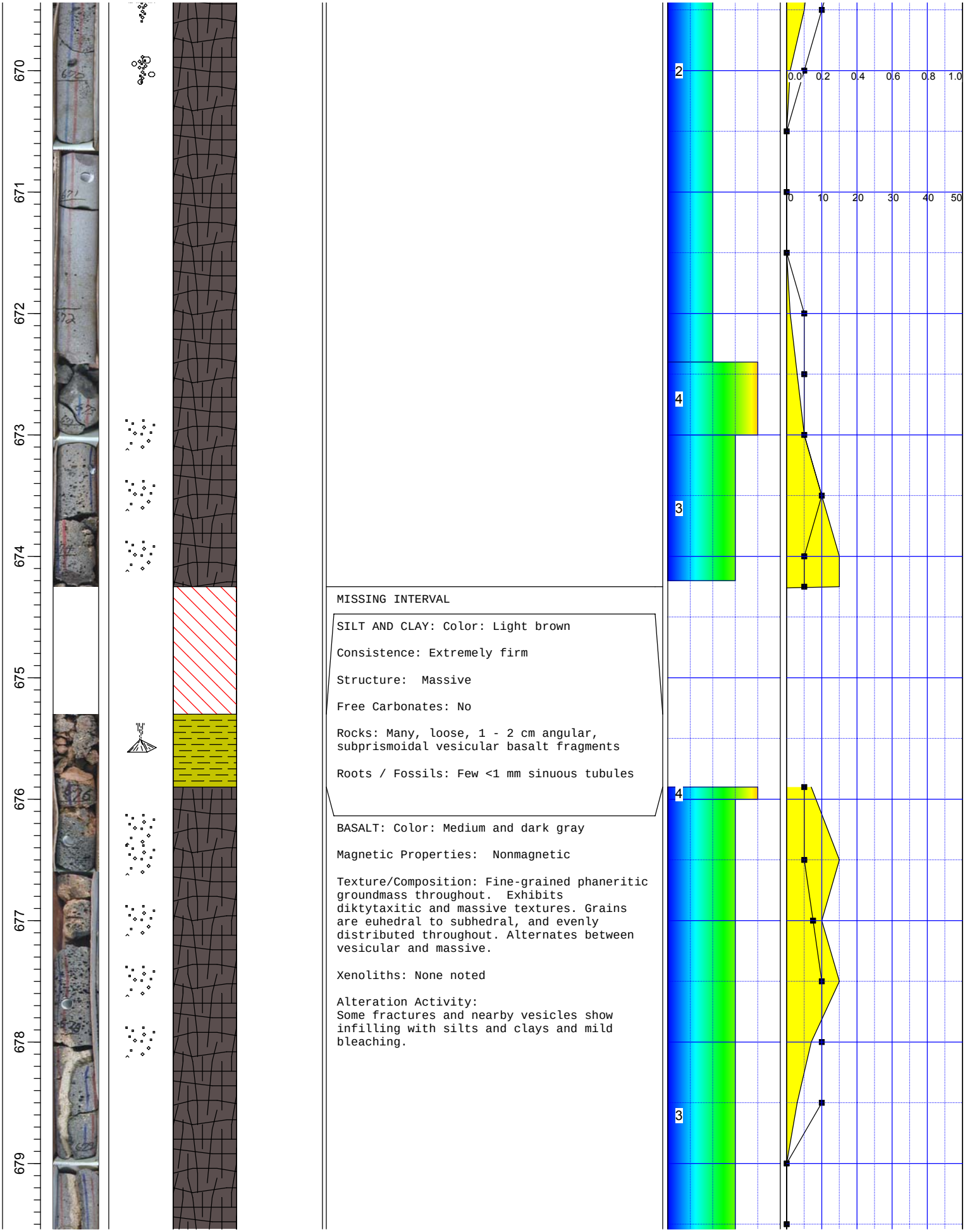


MISSING INTERVAL

SILT AND CLAY: Color: Light brown

Consistence: Extremely firm

Structure: Massive

Free Carbonates: No

Rocks: Many, loose, 1 - 2 cm angular, subprismoidal vesicular basalt fragments

Roots / Fossils: Few <1 mm sinuous tubules

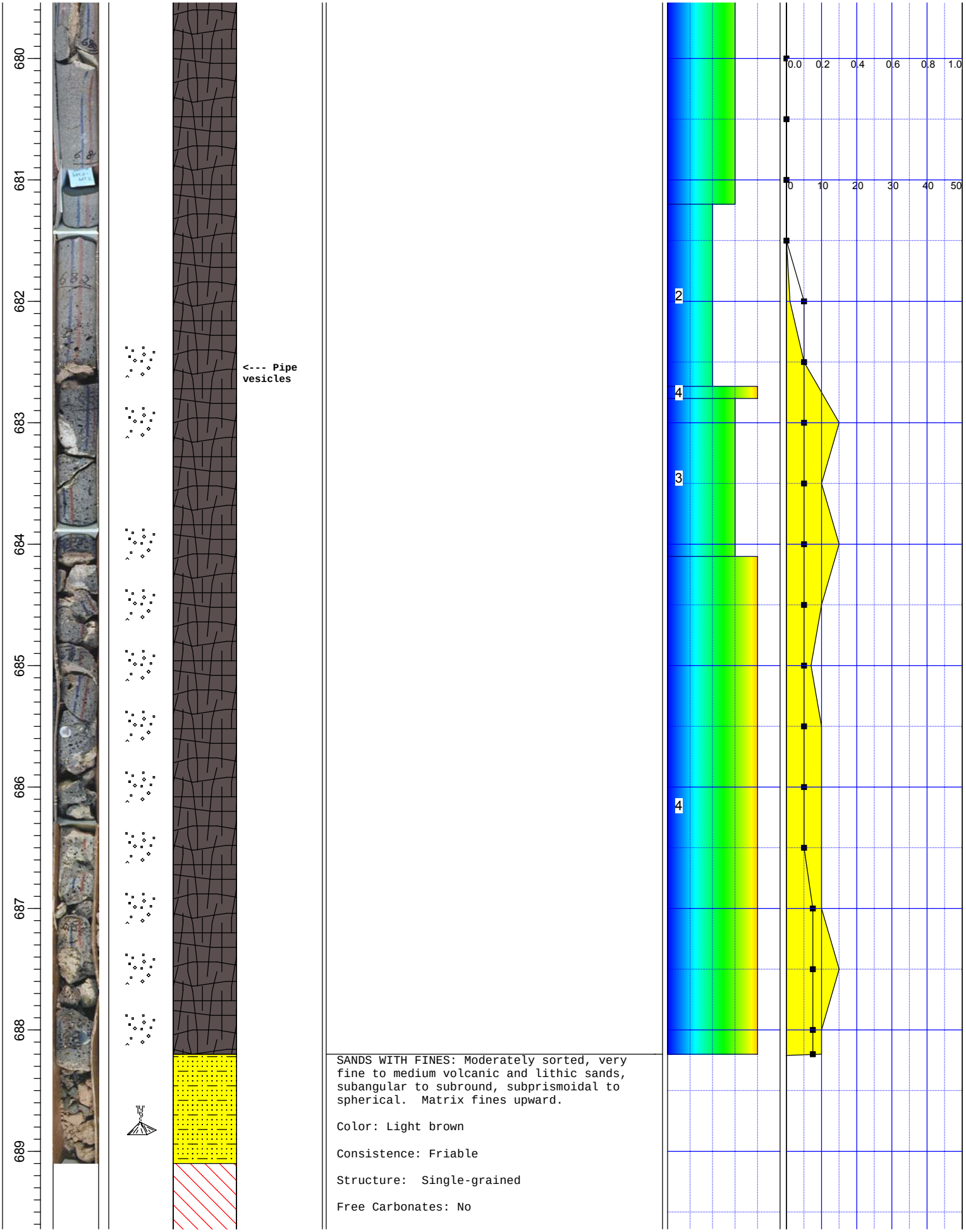
BASALT: Color: Medium and dark gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout. Exhibits diktytaxitic and massive textures. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

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



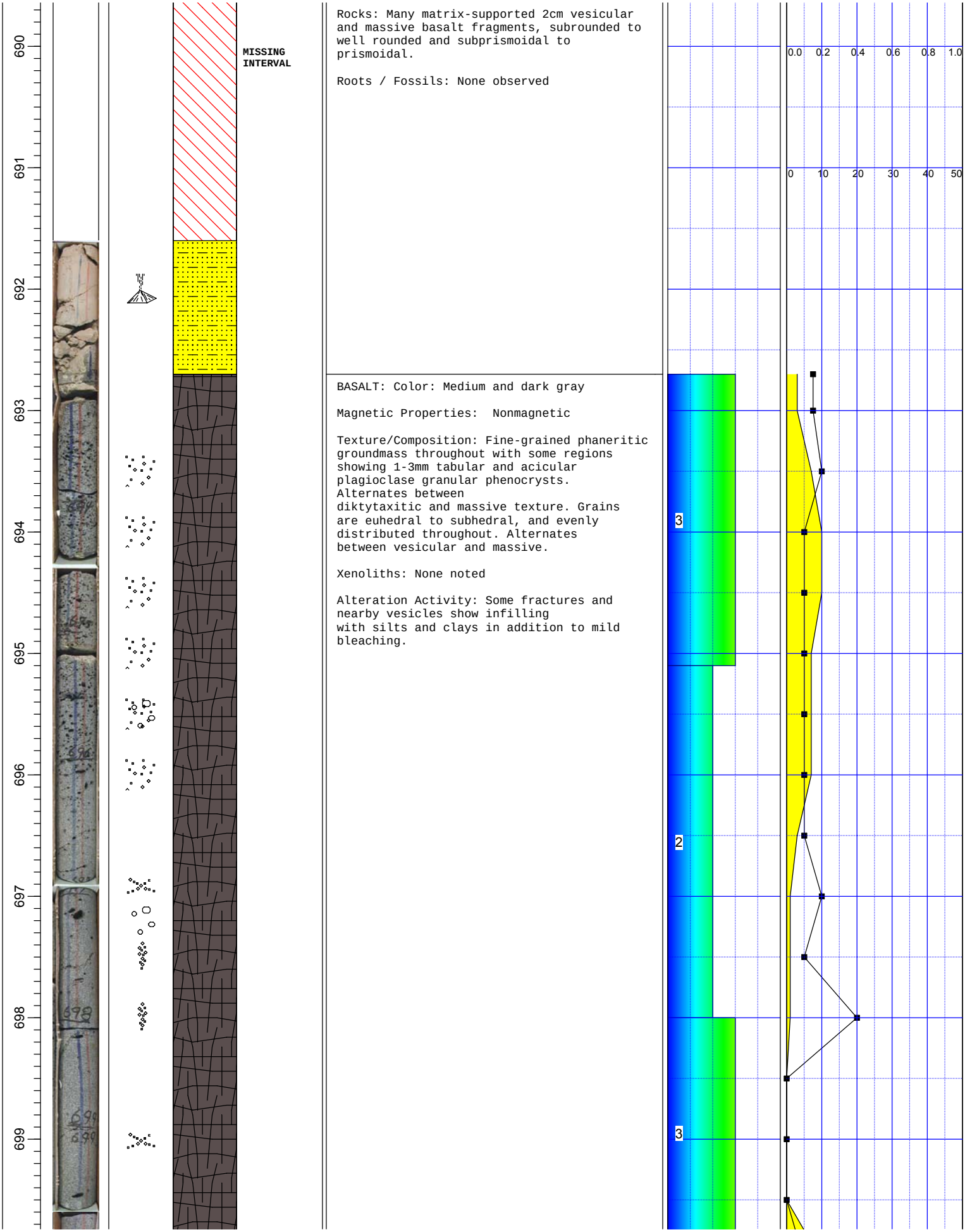
SANDS WITH FINES: Moderately sorted, very fine to medium volcanic and lithic sands, subangular to subround, subprismoidal to spherical. Matrix fines upward.

Color: Light brown

Consistence: Friable

Structure: Single-grained

Free Carbonates: No



Rocks: Many matrix-supported 2cm vesicular and massive basalt fragments, subrounded to well rounded and subprismoidal to prismoidal.

Roots / Fossils: None observed

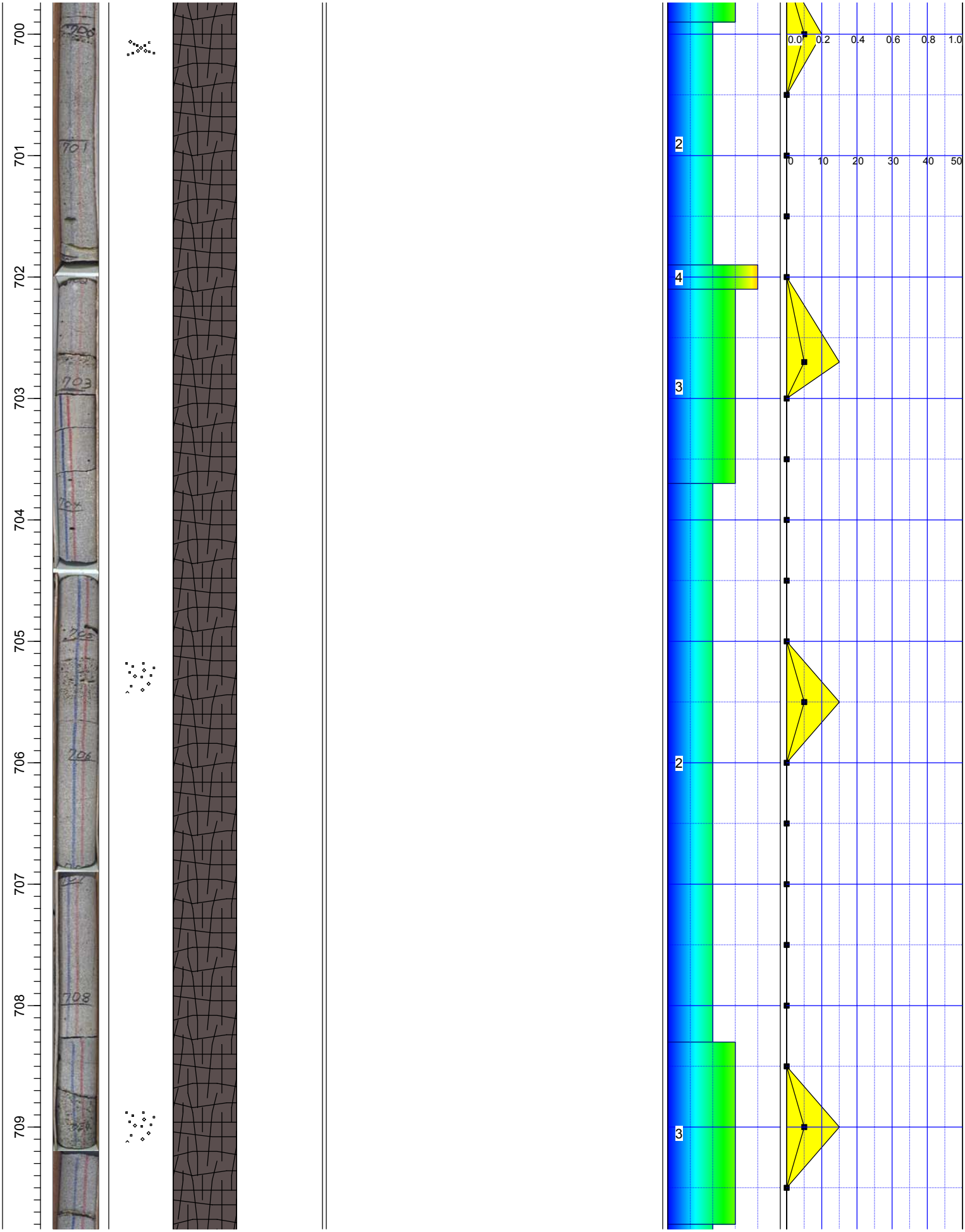
BASALT: Color: Medium and dark gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

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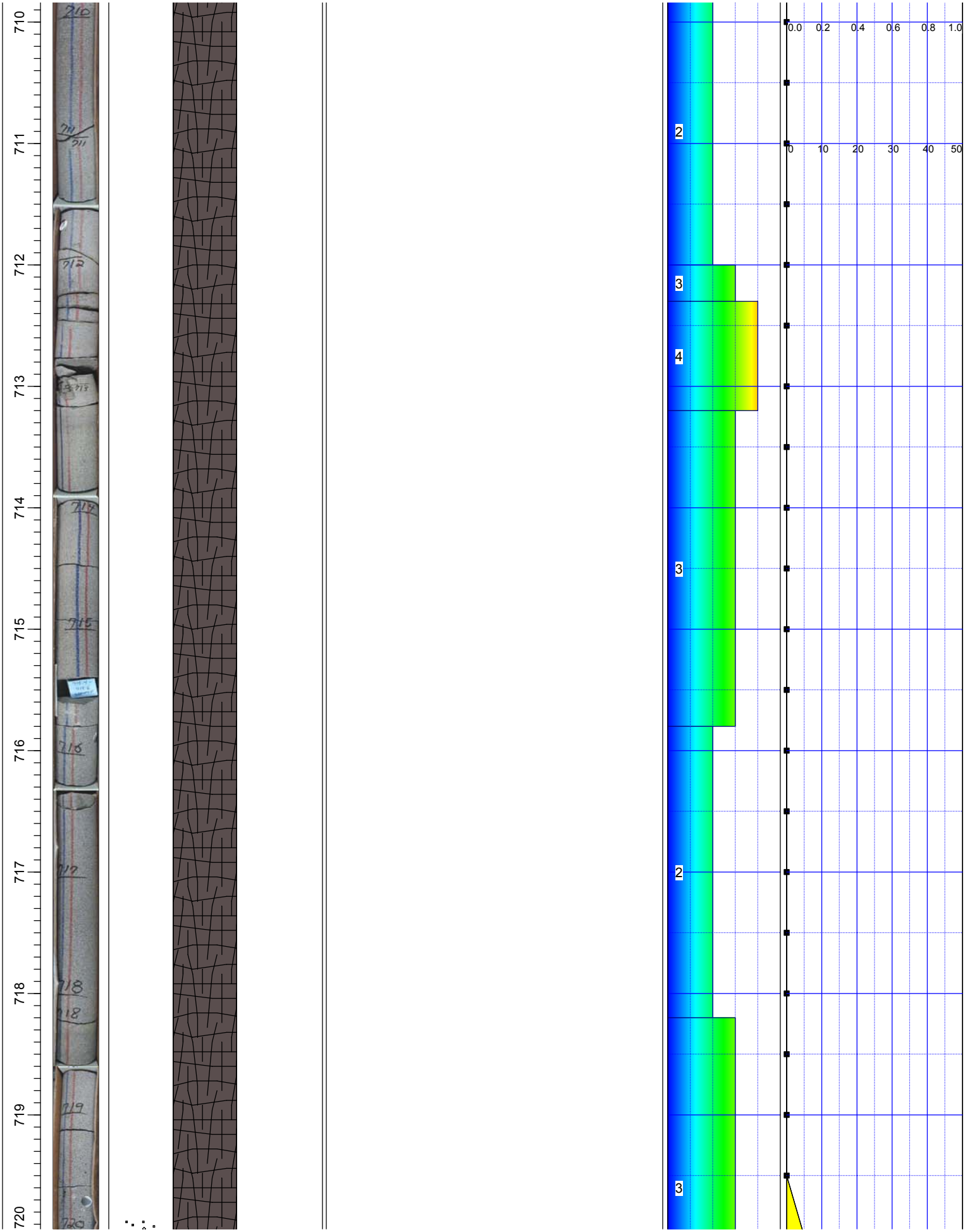
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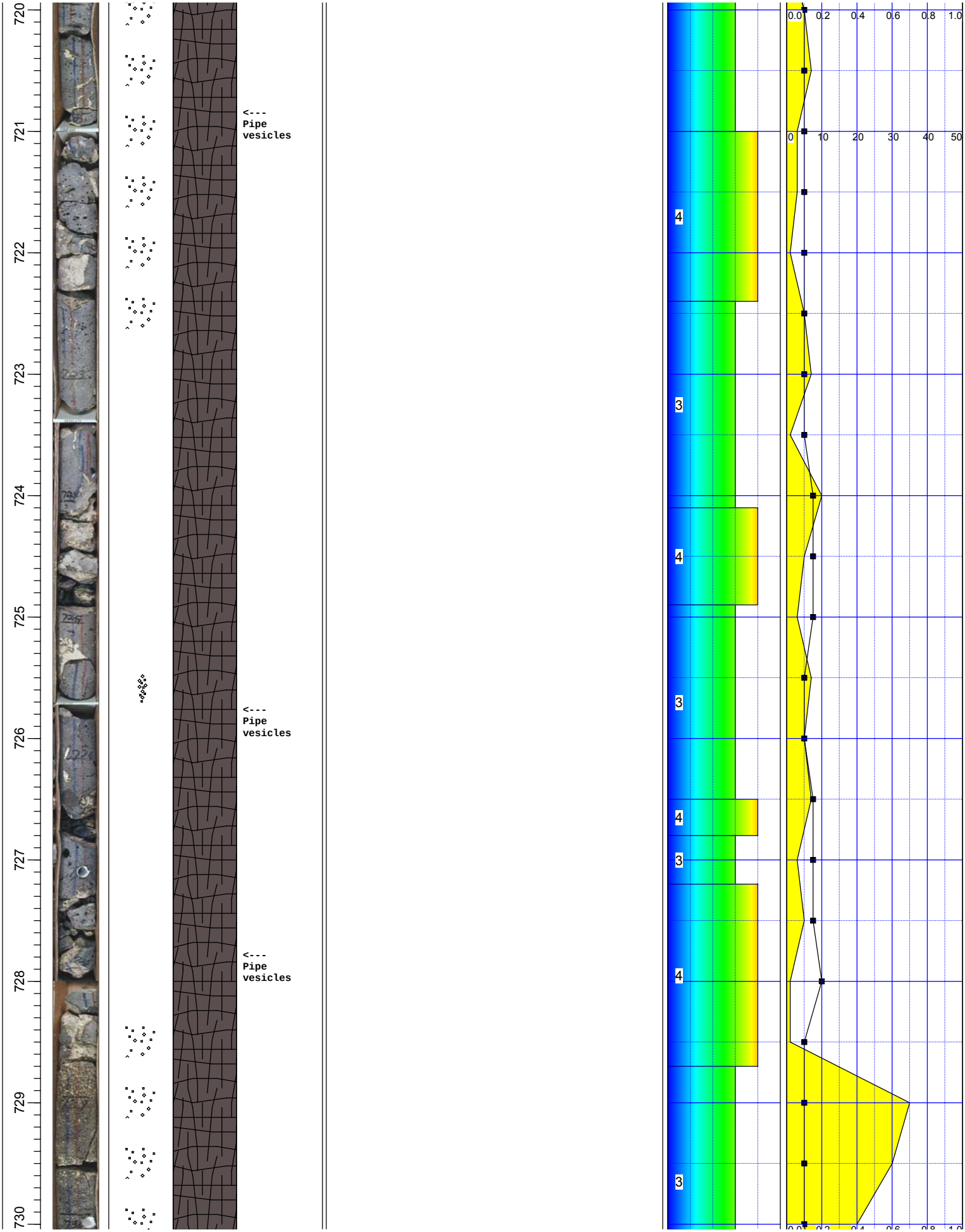
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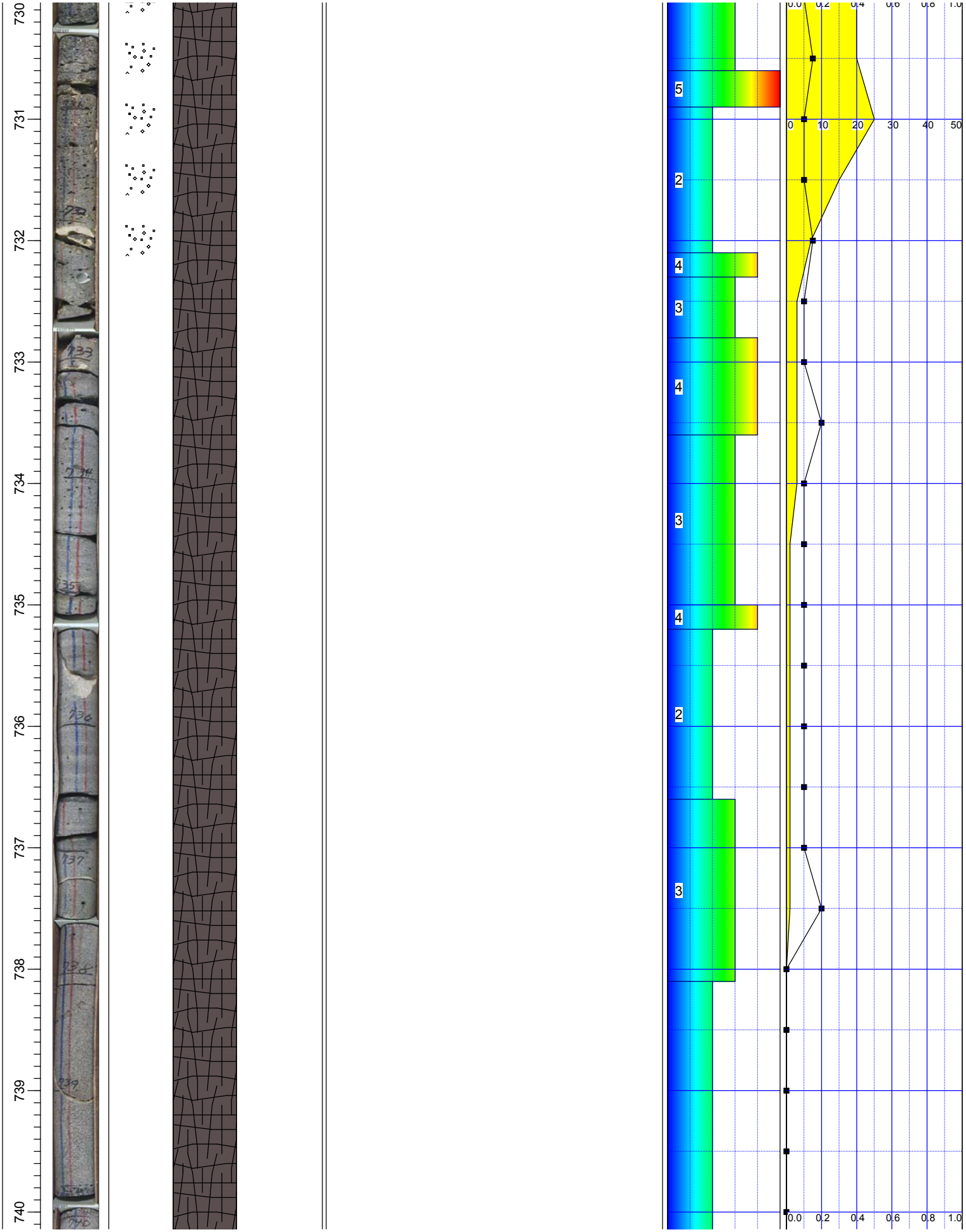
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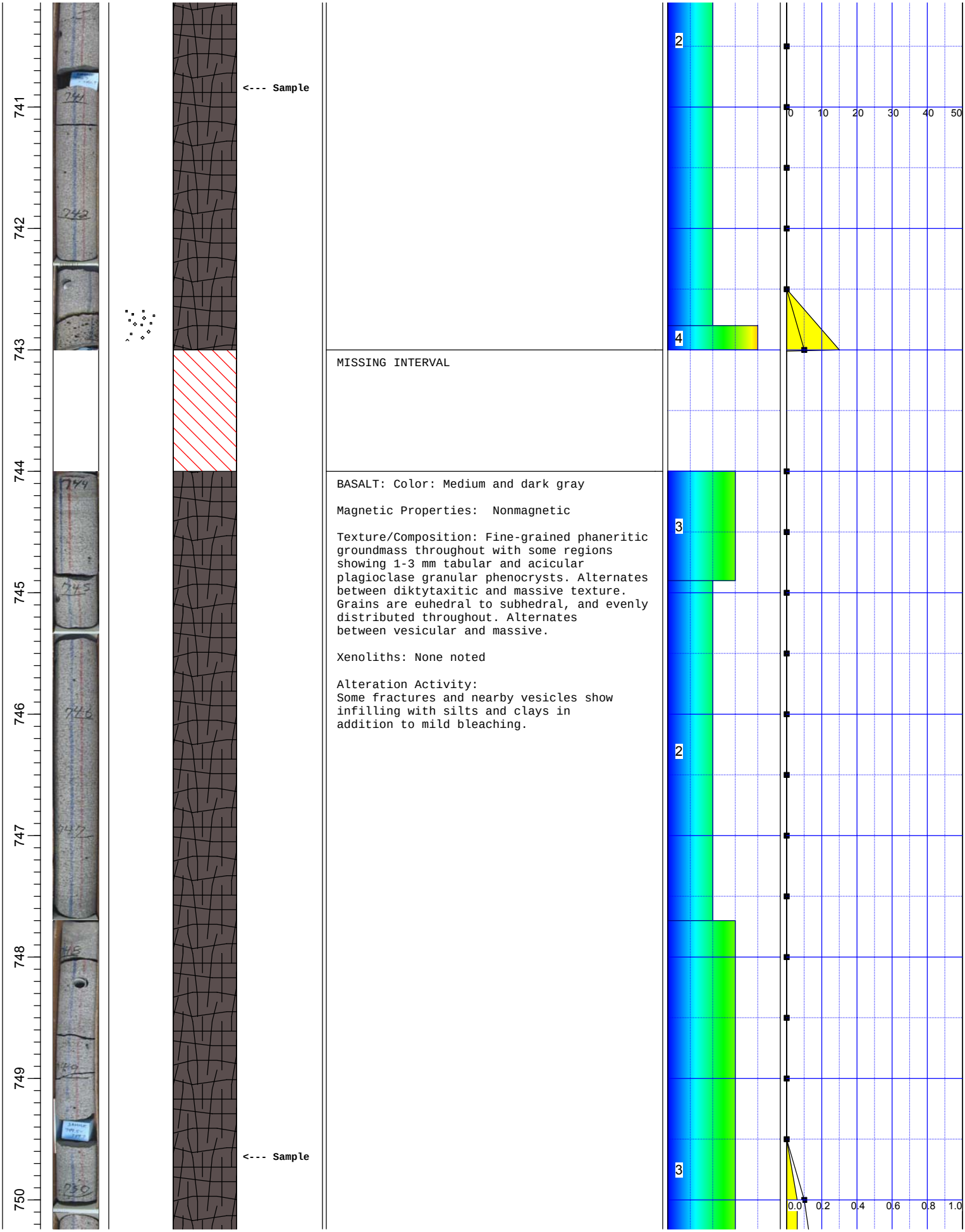


MISSING INTERVAL

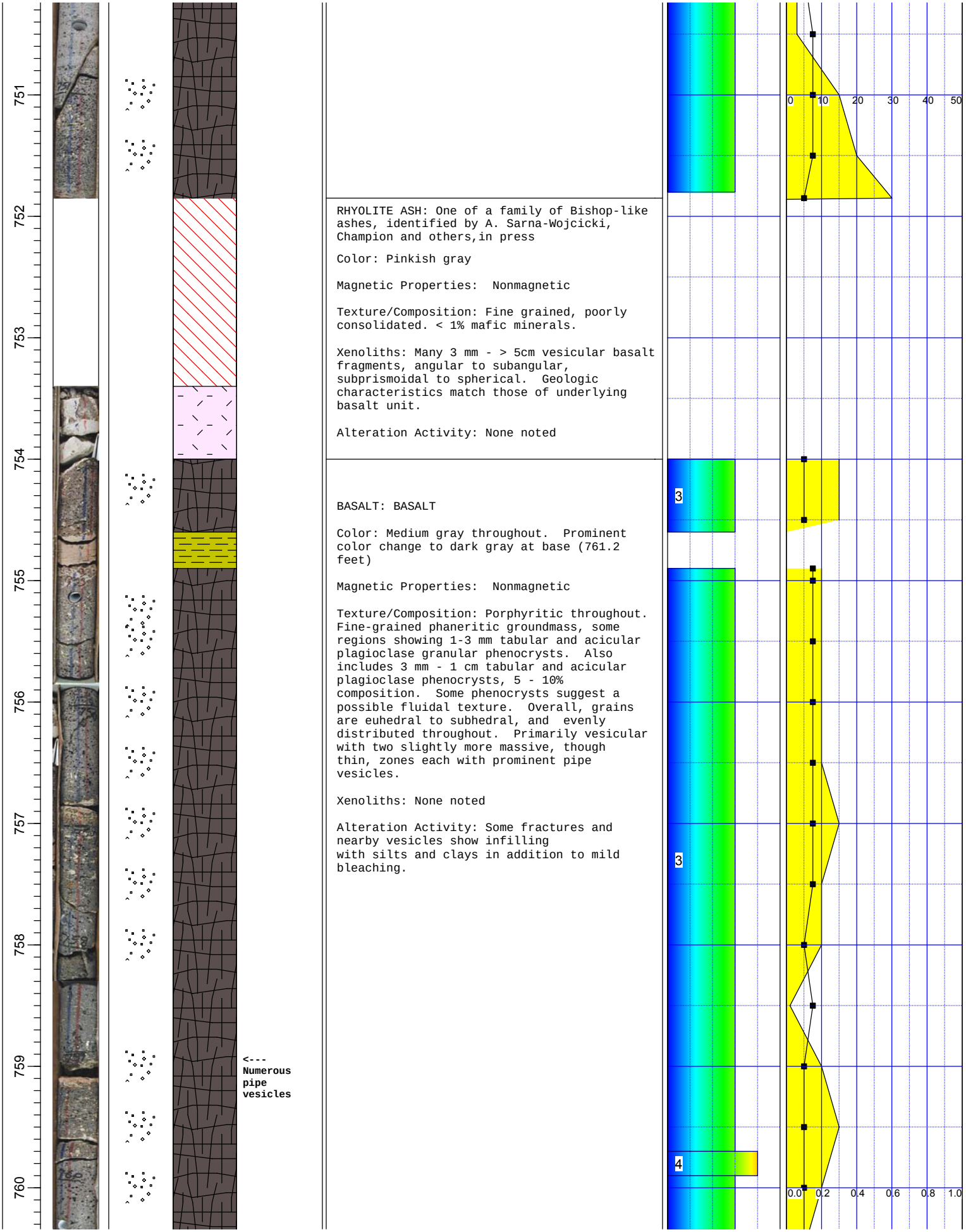
BASALT: Color: Medium and dark gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3 mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

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



RHYOLITE ASH: One of a family of Bishop-like ashes, identified by A. Sarna-Wojcicki, Champion and others,in press

Color: Pinkish gray

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine grained, poorly consolidated. < 1% mafic minerals.

Xenoliths: Many 3 mm - > 5cm vesicular basalt fragments, angular to subangular, subprismoidal to spherical. Geologic characteristics match those of underlying basalt unit.

Alteration Activity: None noted

BASALT: BASALT

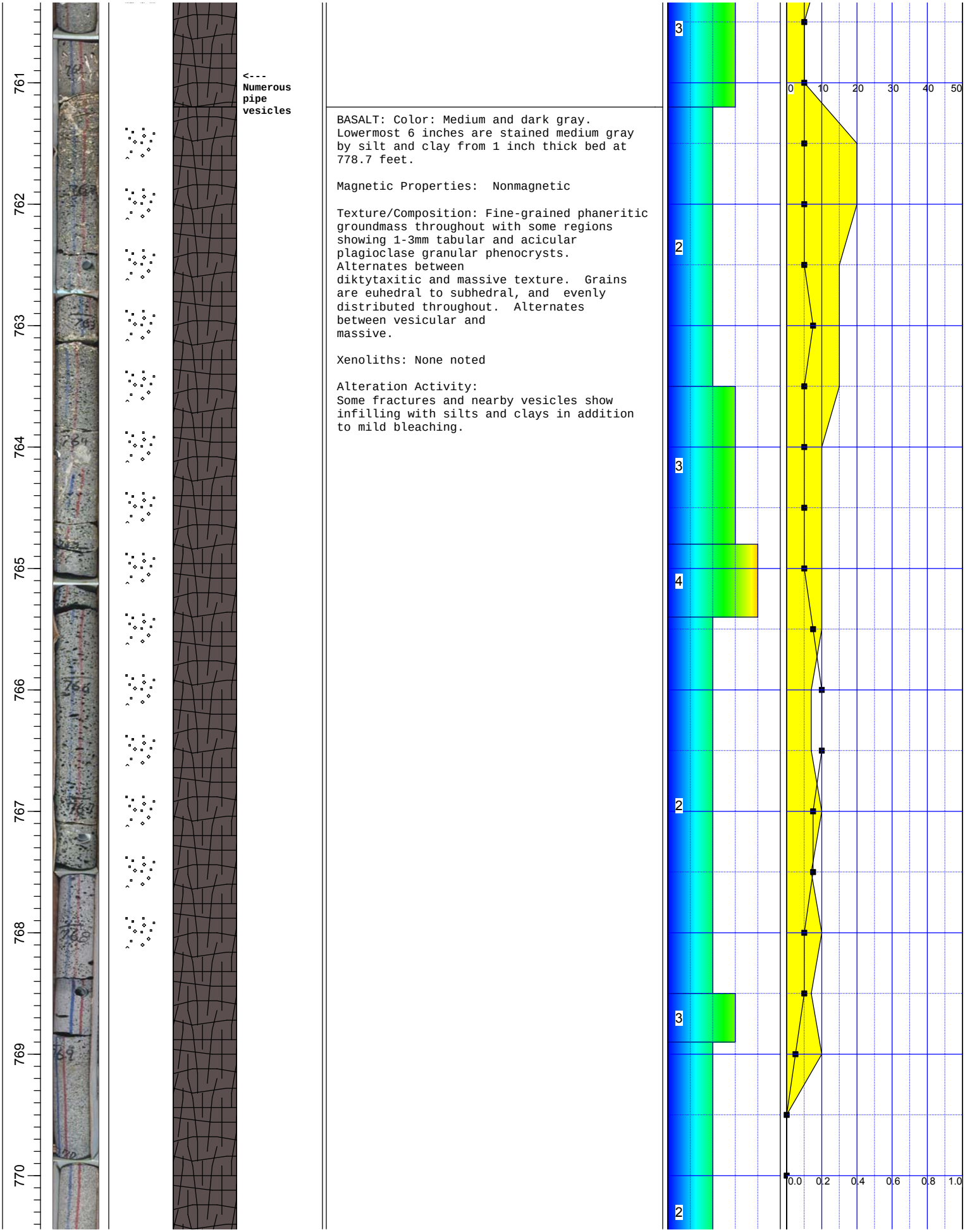
Color: Medium gray throughout. Prominent color change to dark gray at base (761.2 feet)

Magnetic Properties: Nonmagnetic

Texture/Composition: Porphyritic throughout. Fine-grained phaneritic groundmass, some regions showing 1-3 mm tabular and acicular plagioclase granular phenocrysts. Also includes 3 mm - 1 cm tabular and acicular plagioclase phenocrysts, 5 - 10% composition. Some phenocrysts suggest a possible fluidal texture. Overall, grains are euhedral to subhedral, and evenly distributed throughout. Primarily vesicular with two slightly more massive, though thin, zones each with prominent pipe vesicles.

Xenoliths: None noted

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



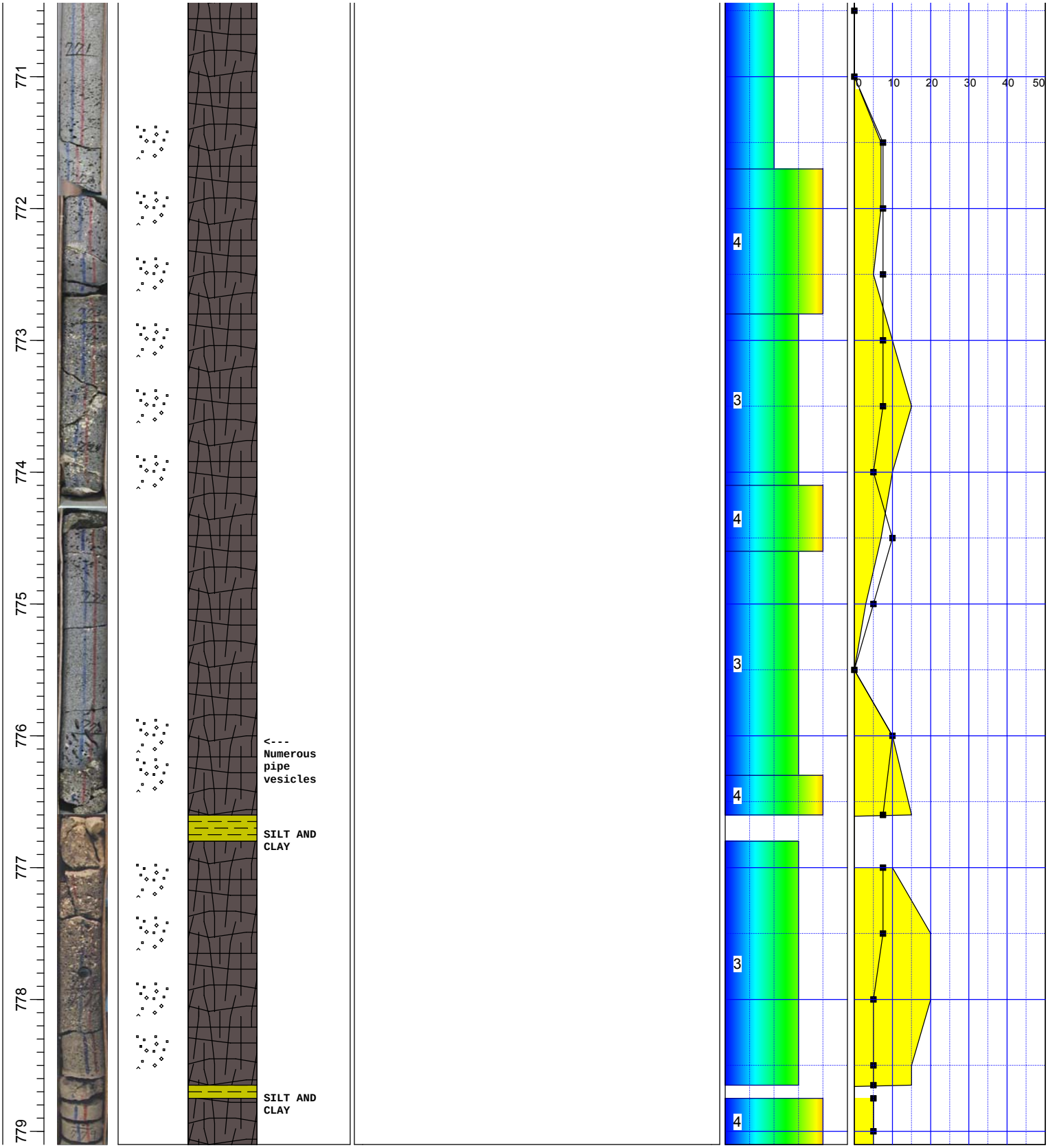
BASALT: Color: Medium and dark gray. Lowermost 6 inches are stained medium gray by silt and clay from 1 inch thick bed at 778.7 feet.

Magnetic Properties: Nonmagnetic

Texture/Composition: Fine-grained phaneritic groundmass throughout with some regions showing 1-3mm tabular and acicular plagioclase granular phenocrysts. Alternates between diktytaxitic and massive texture. Grains are euhedral to subhedral, and evenly distributed throughout. Alternates between vesicular and massive.

Xenoliths: None noted

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