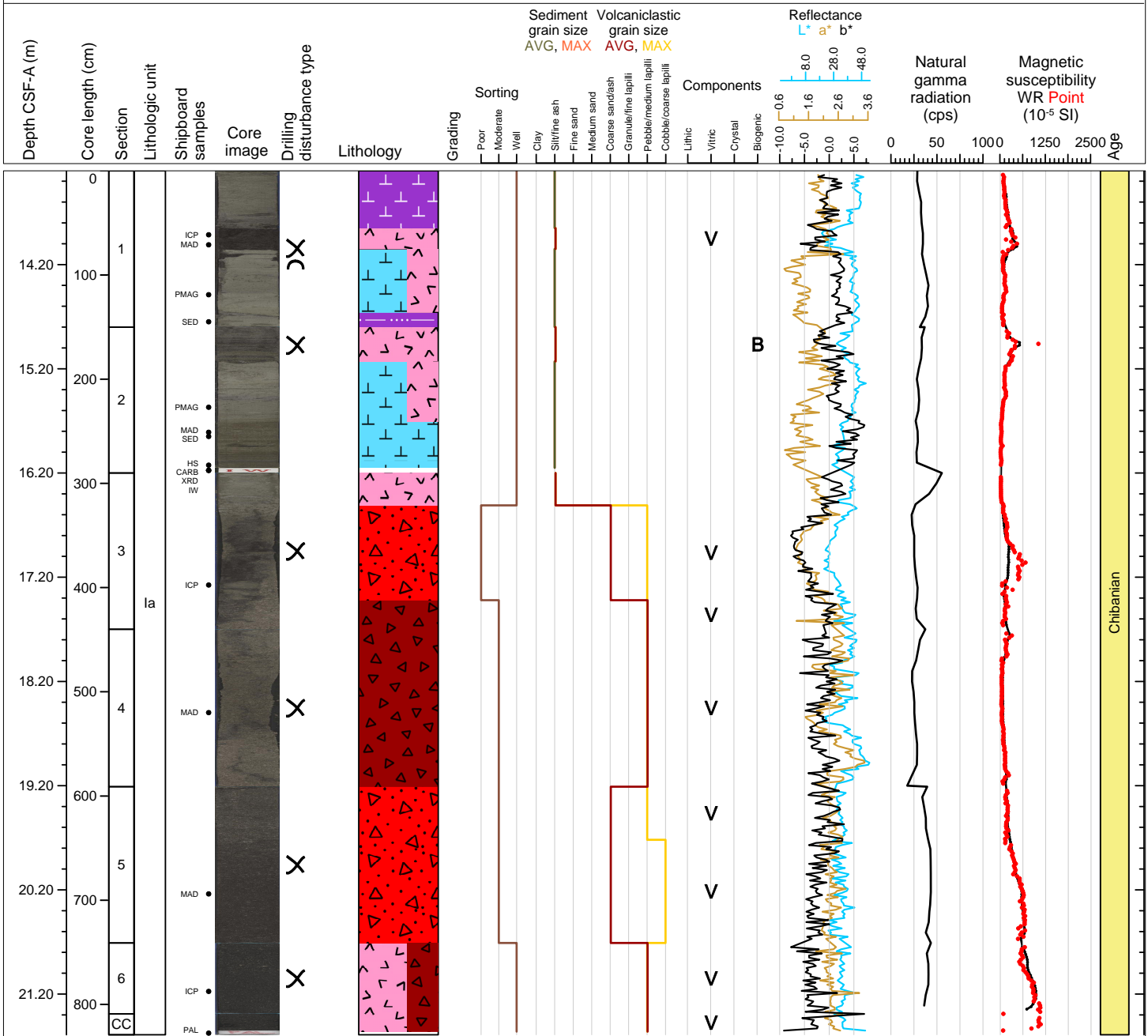
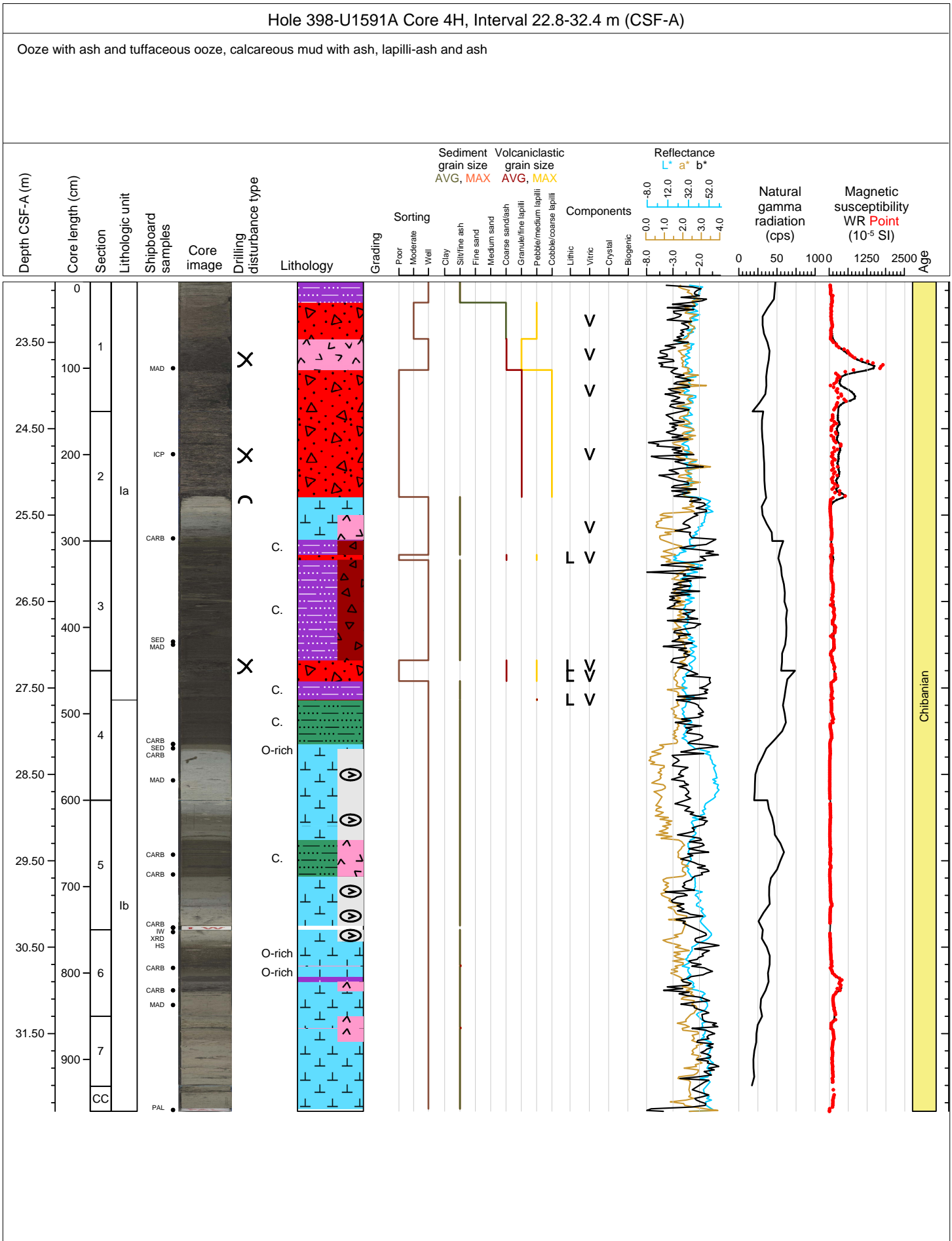
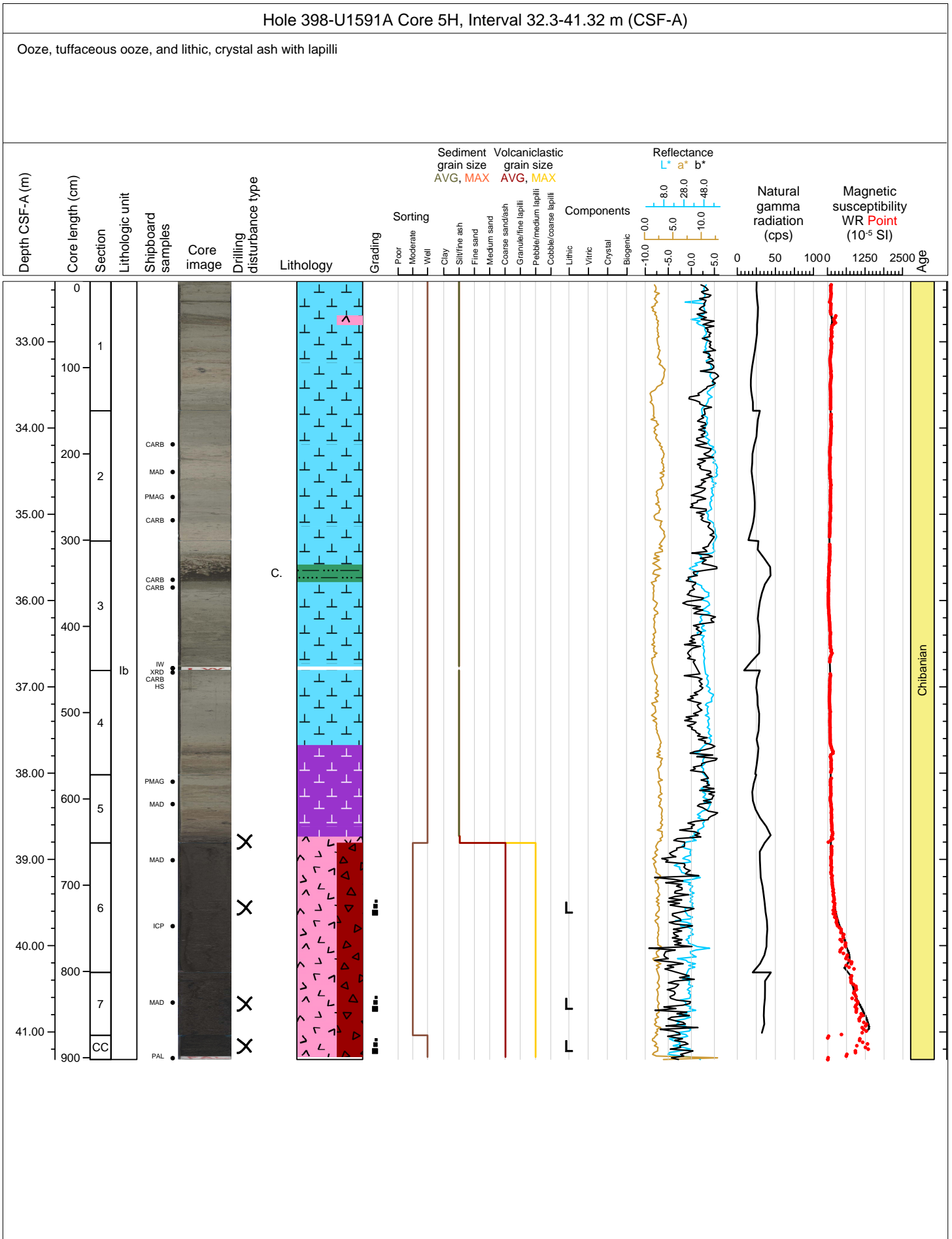


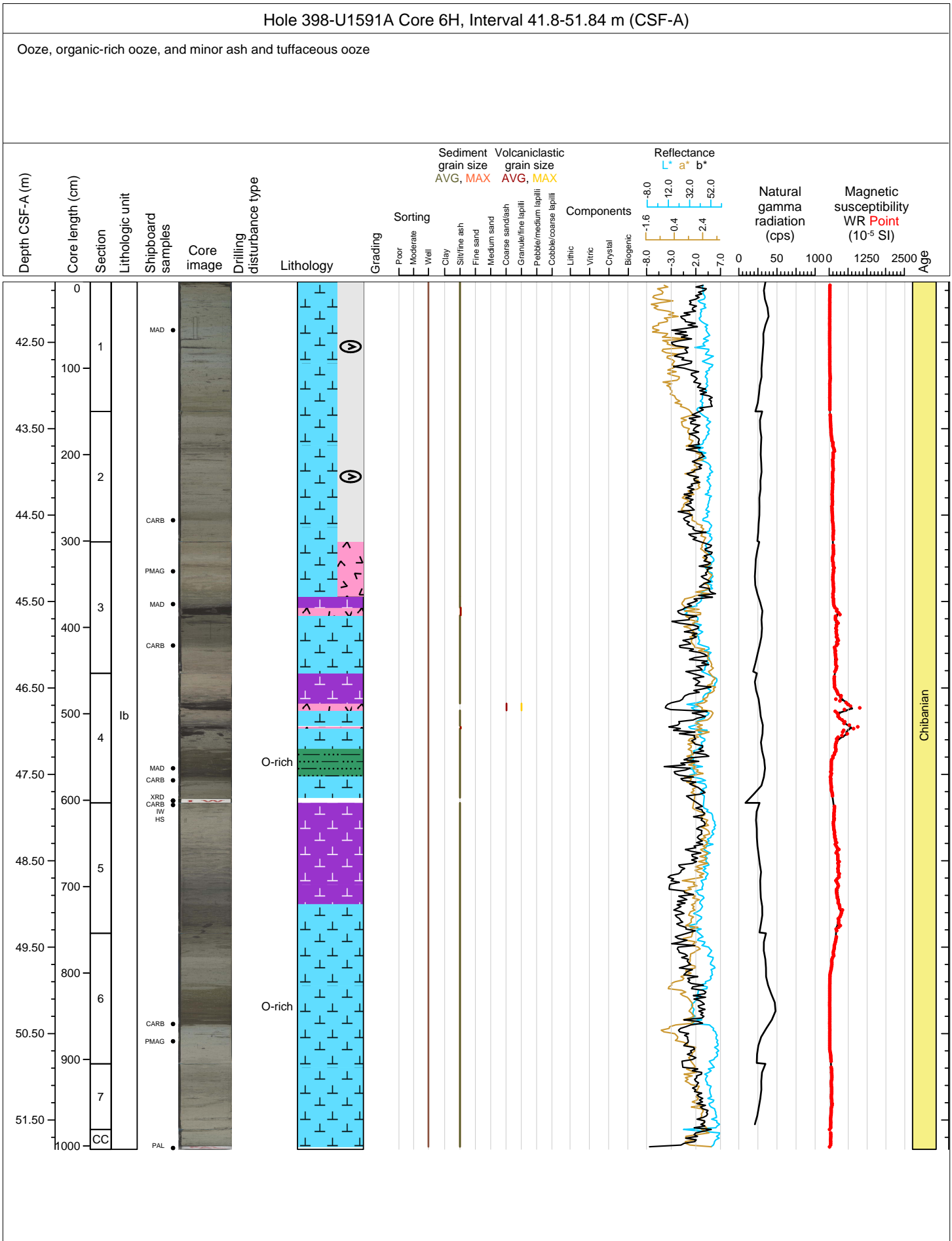
Hole 398-U1591A Core 3H, Interval 13.3-21.59 m (CSF-A)

Ash, ash with lapilli and lapilli-ash, with tuffaceous mud and ooze.



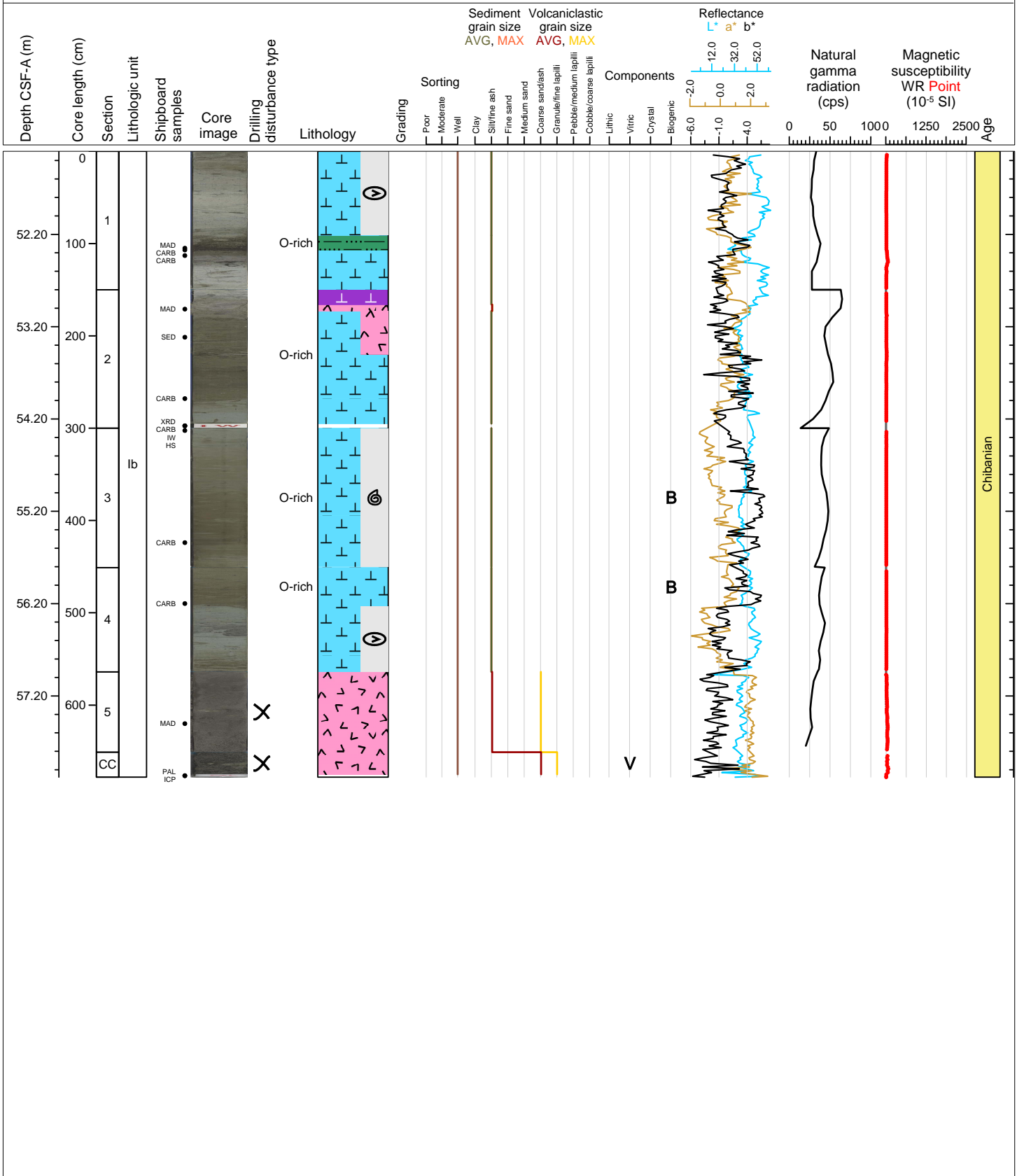






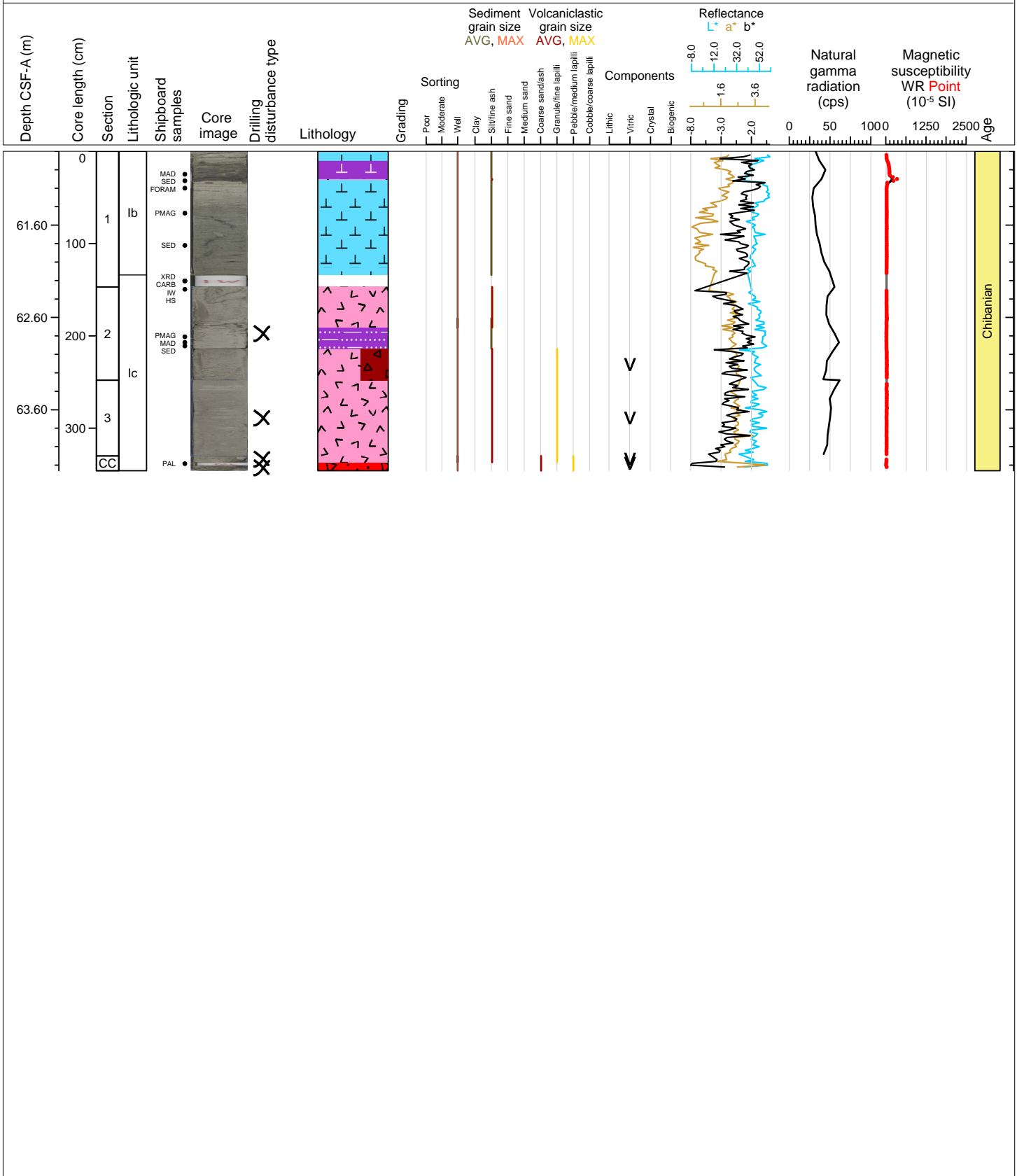
Hole 398-U1591A Core 7H, Interval 51.3-58.08 m (CSF-A)

Ooze, organic rich ooze, tuffaceous ooze, and ash



Hole 398-U1591A Core 8H, Interval 60.8-64.26 m (CSF-A)

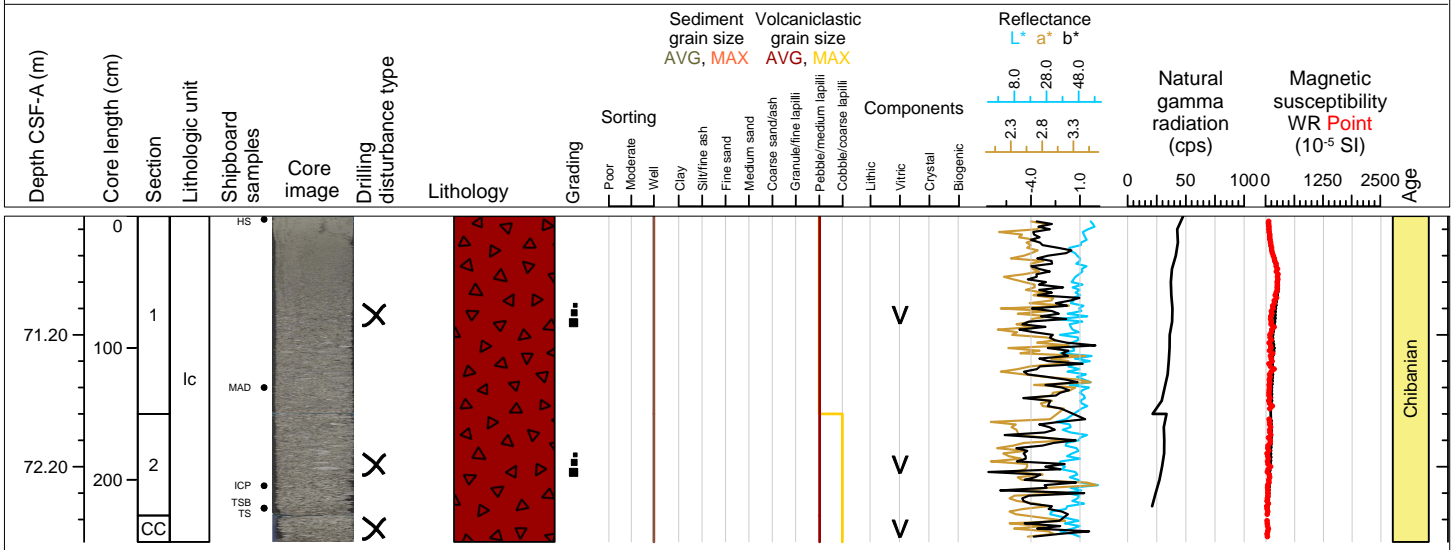
Ash, lapilli-ash, tuffaceous mud and ooze





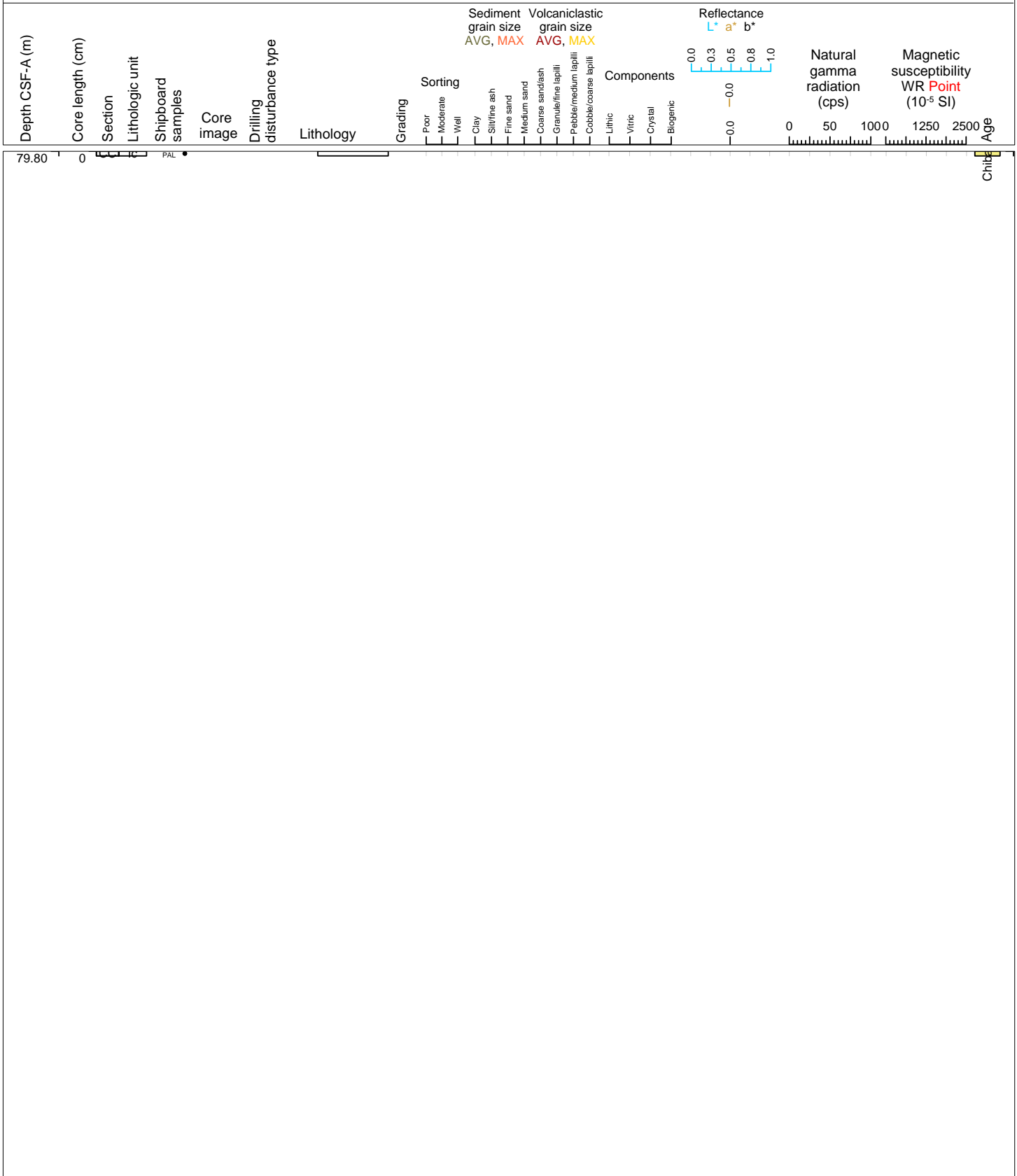
Hole 398-U1591A Core 9H, Interval 70.3-72.77 m (CSF-A)

Lapilli



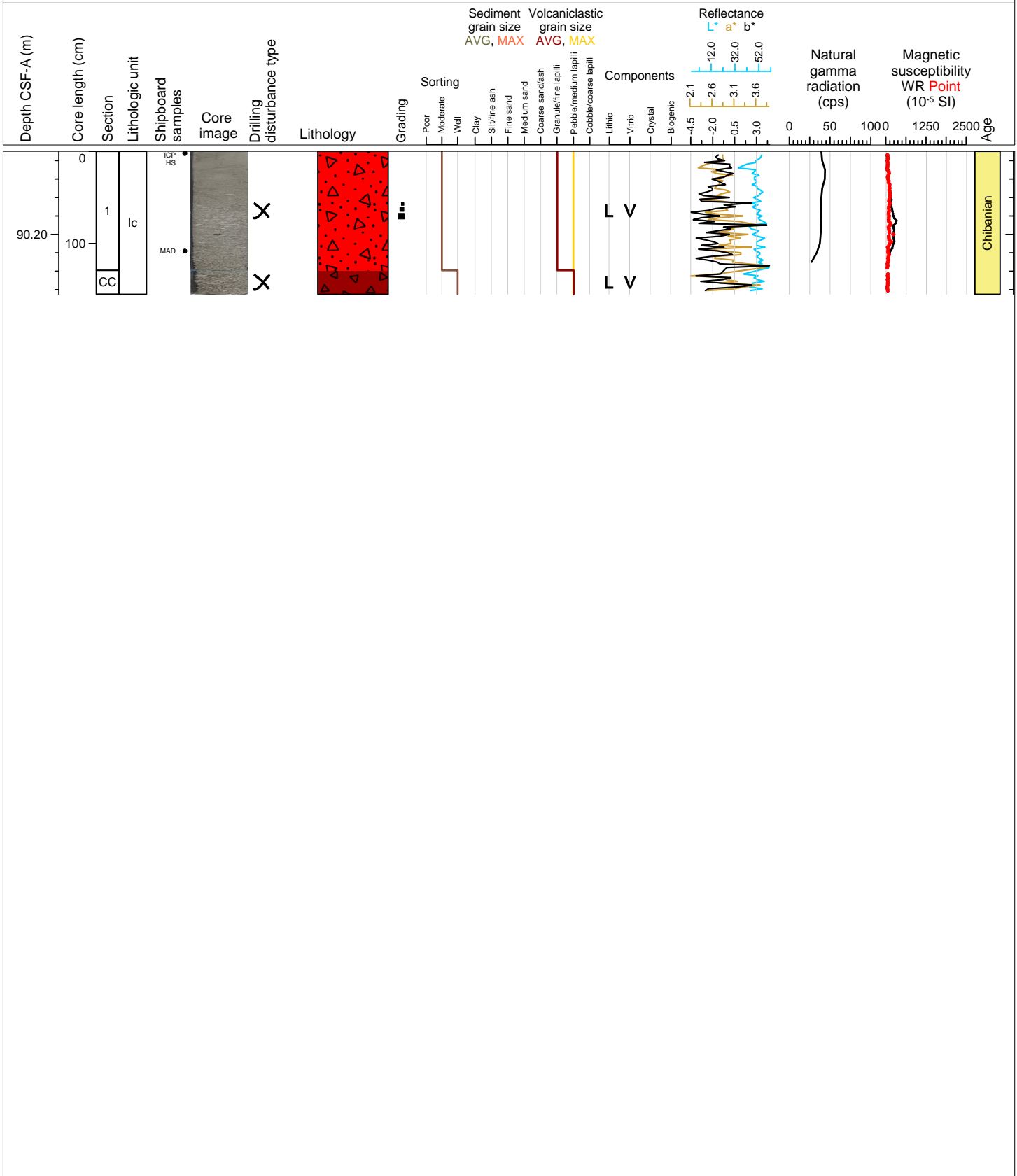
Hole 398-U1591A Core 10H, Interval 79.8-79.85 m (CSF-A)

ALL TO PAL



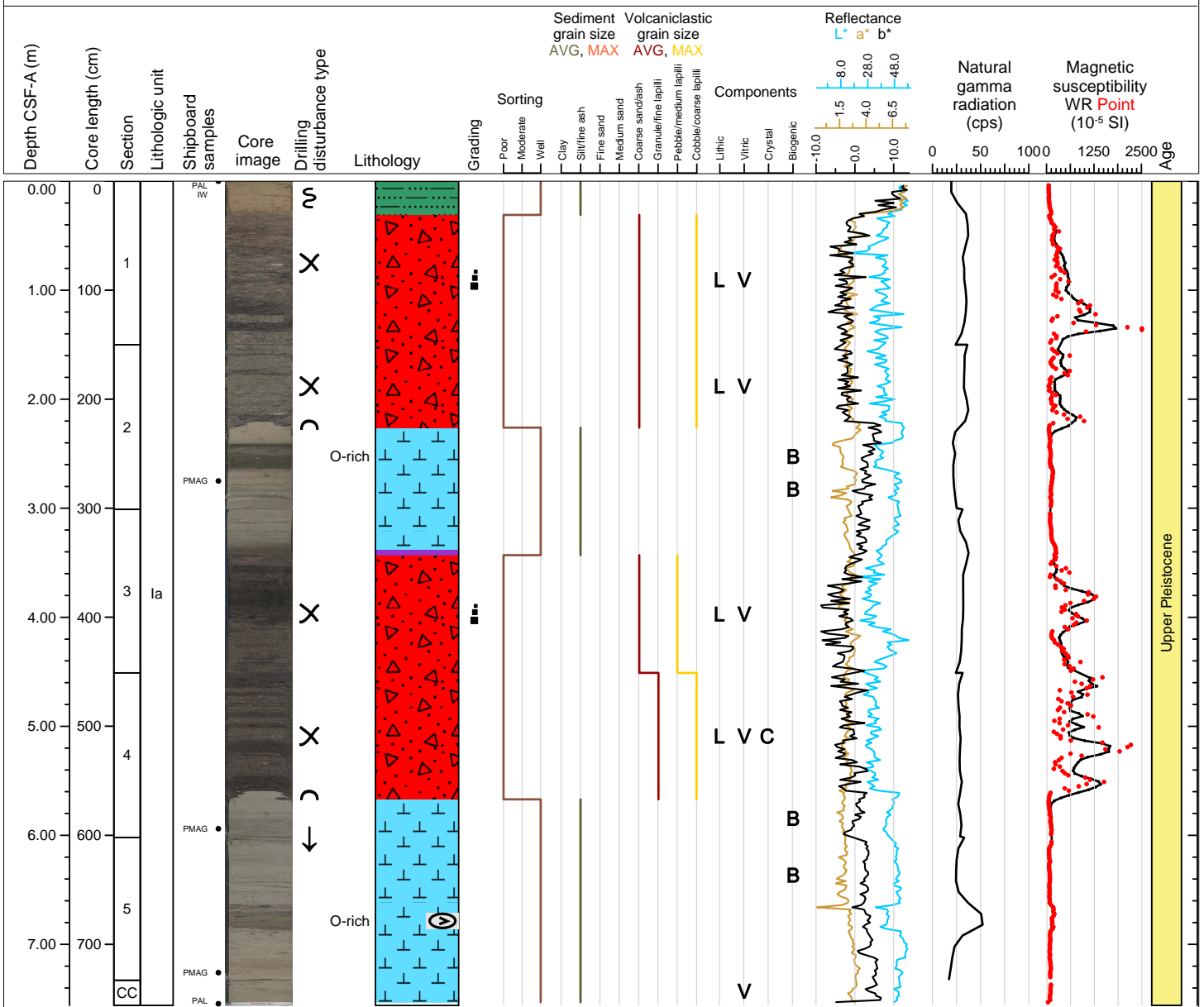
Hole 398-U1591A Core 11H, Interval 89.3-90.85 m (CSF-A)

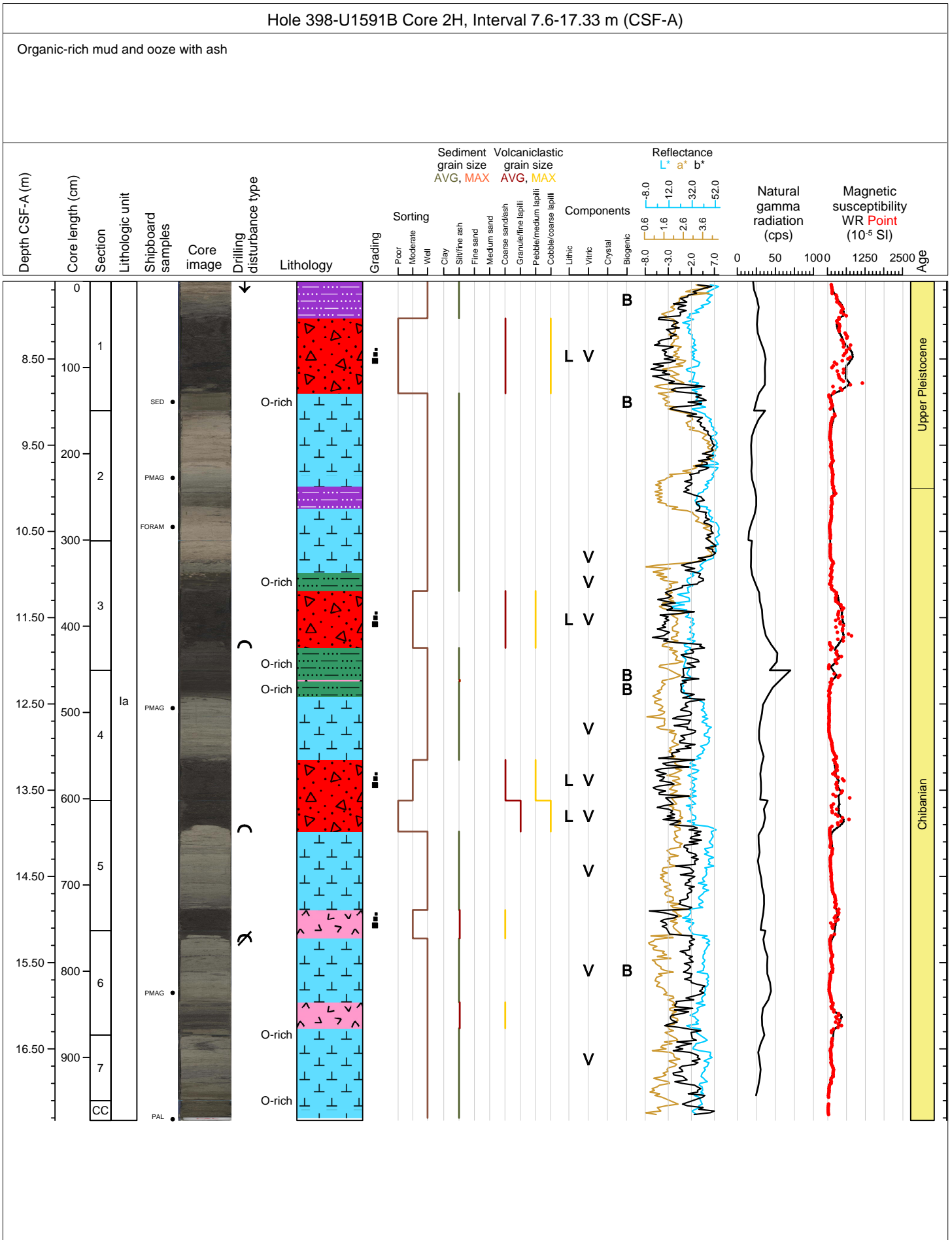
Lapilli and lapilli-ash

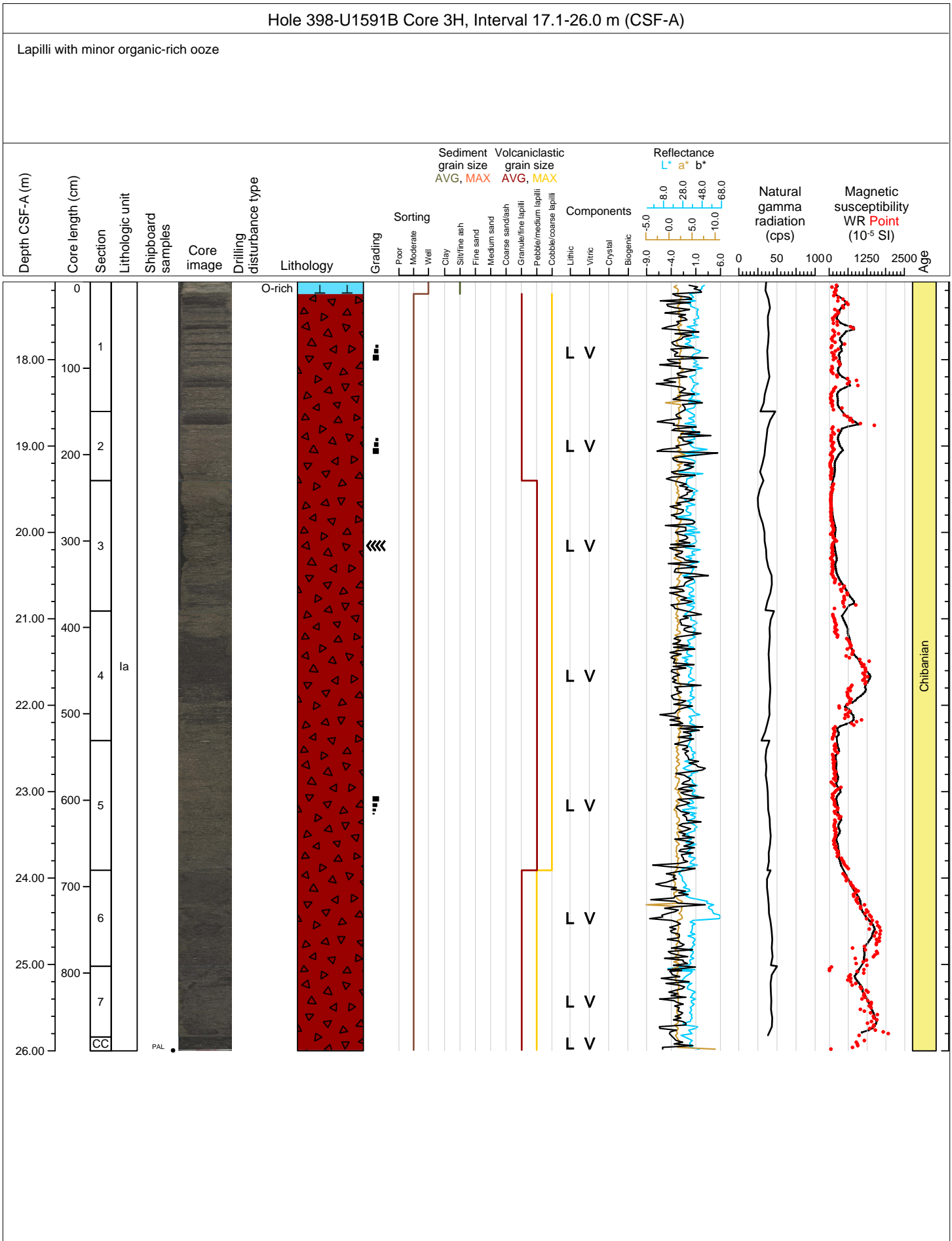


Hole 398-U1591B Core 1H, Interval 0.0-7.56 m (CSF-A)

Ooze and lapilli-ash with minor tuffaceous mud

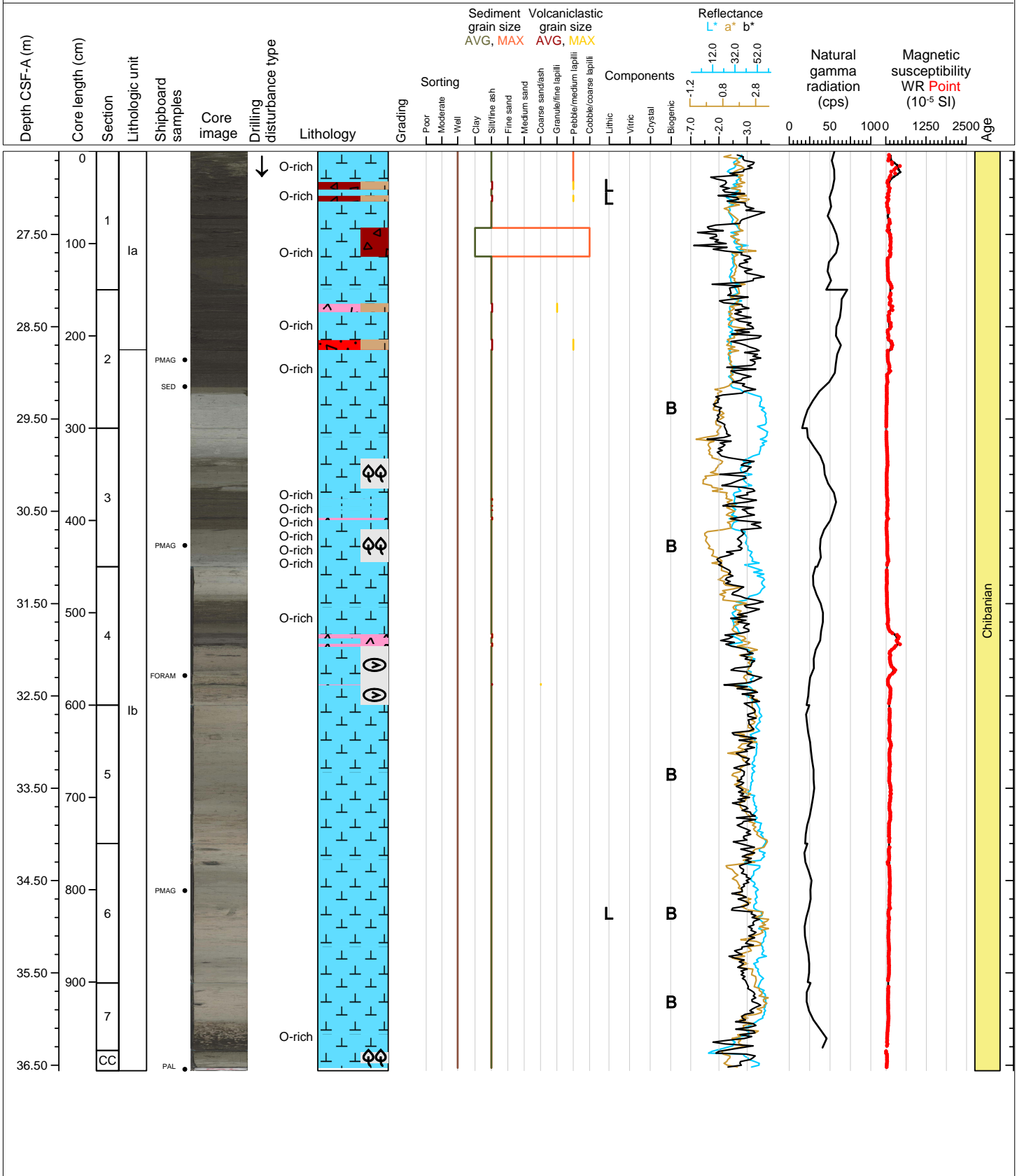






Hole 398-U1591B Core 4H, Interval 26.6-36.56 m (CSF-A)

Organic-rich ooze with ash and lapilli

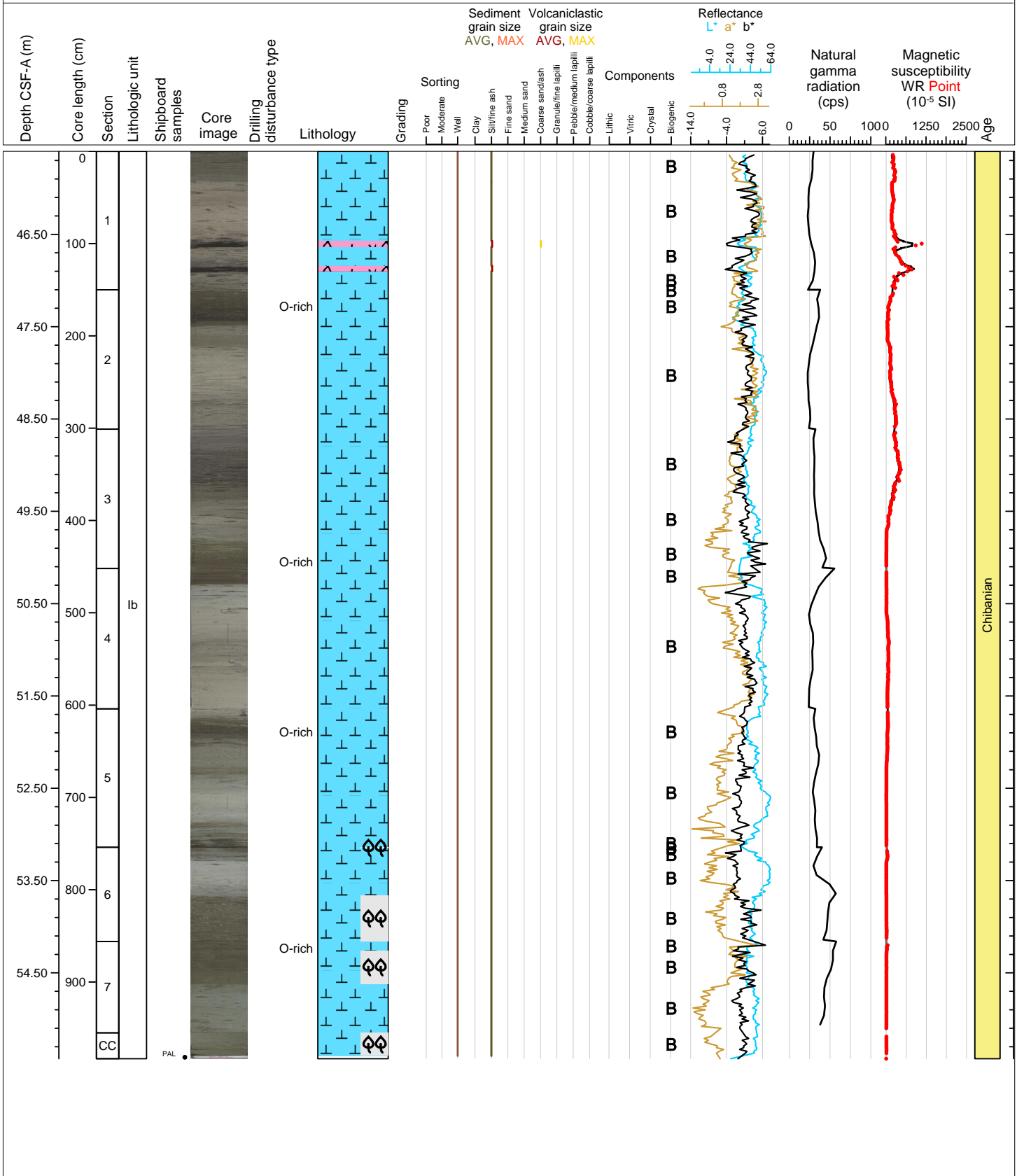






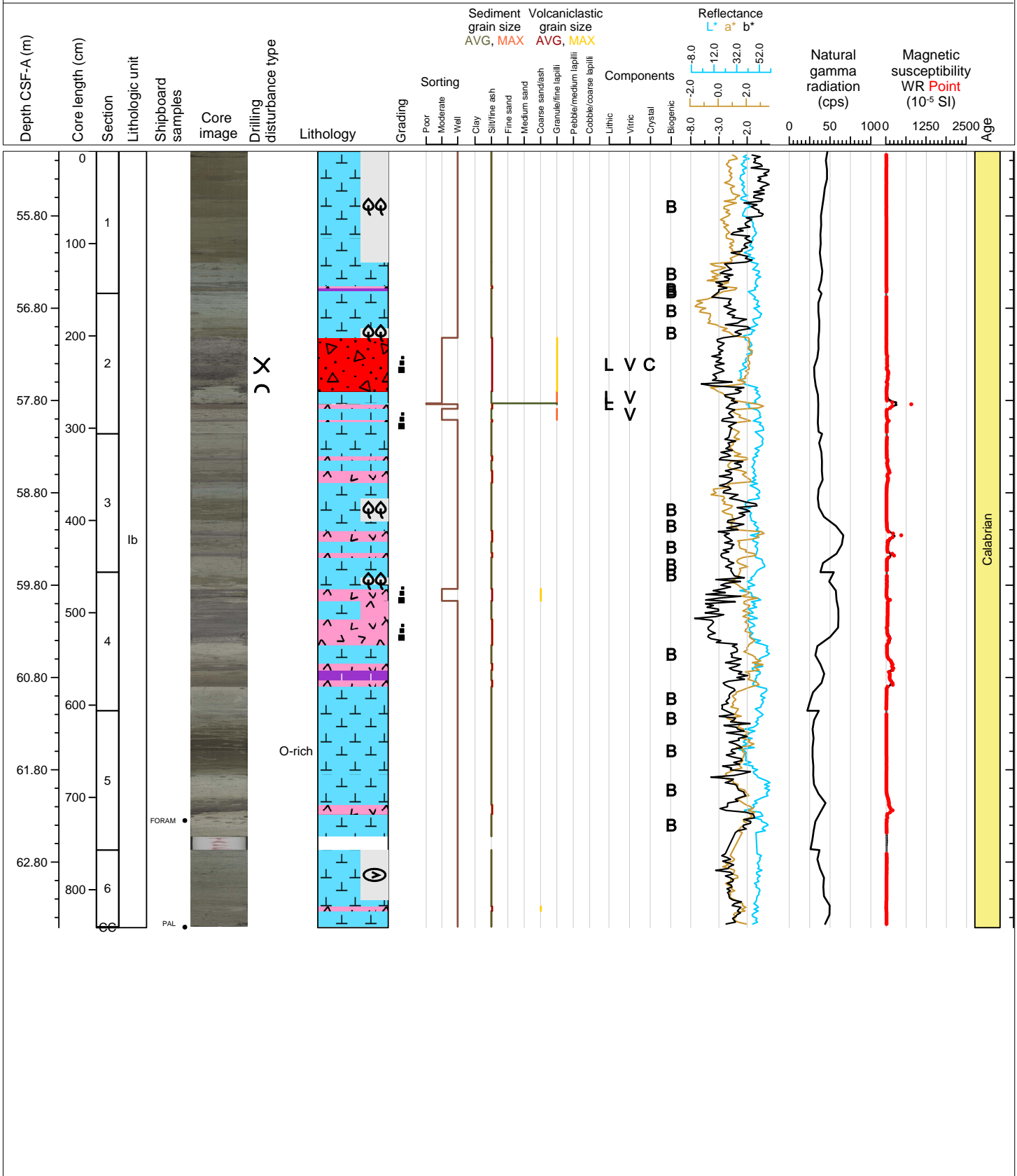
Hole 398-U1591B Core 6H, Interval 45.6-55.43 m (CSF-A)

Ooze with organic material



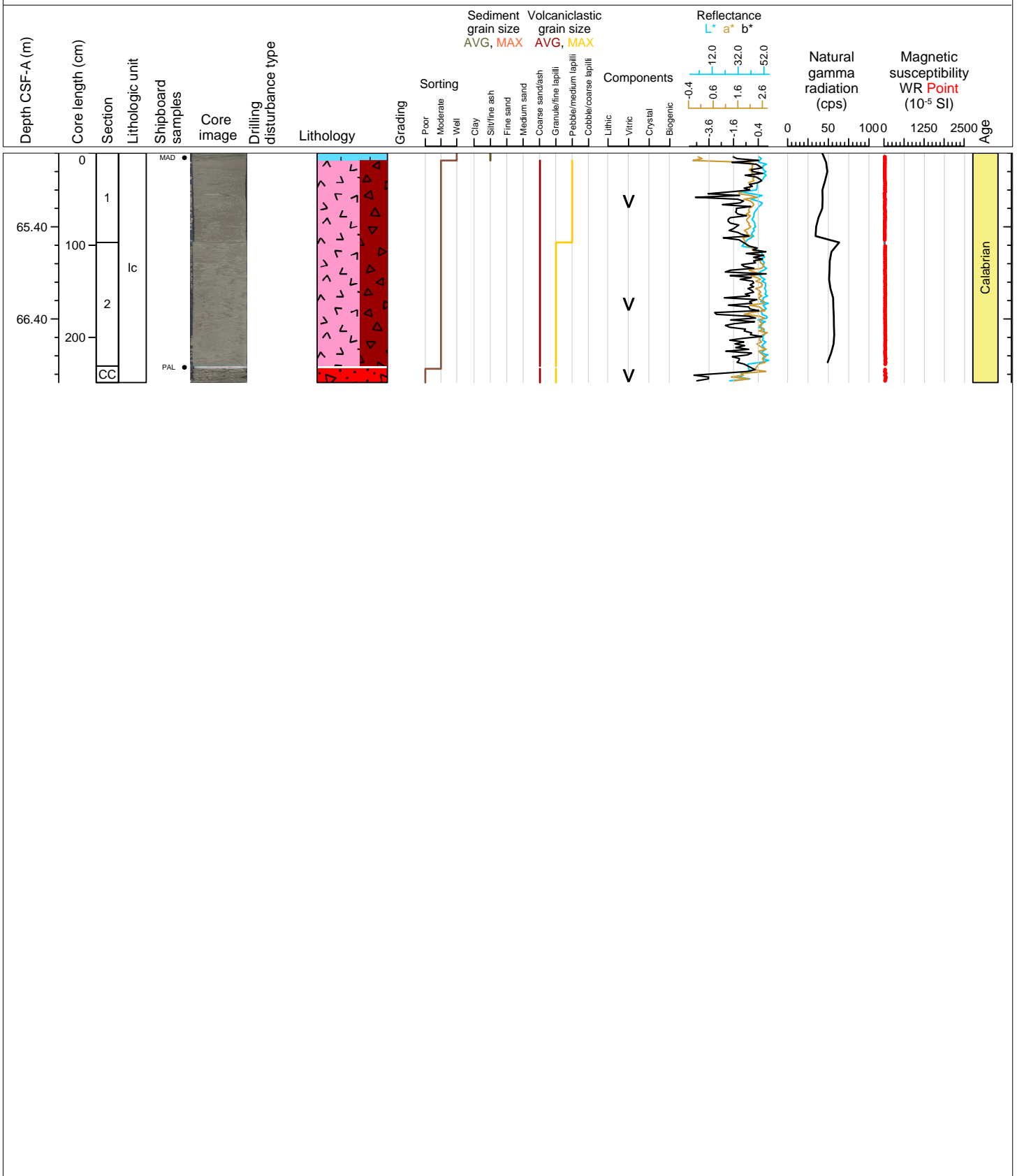
Hole 398-U1591B Core 7H, Interval 55.1-63.51 m (CSF-A)

Ooze and ash



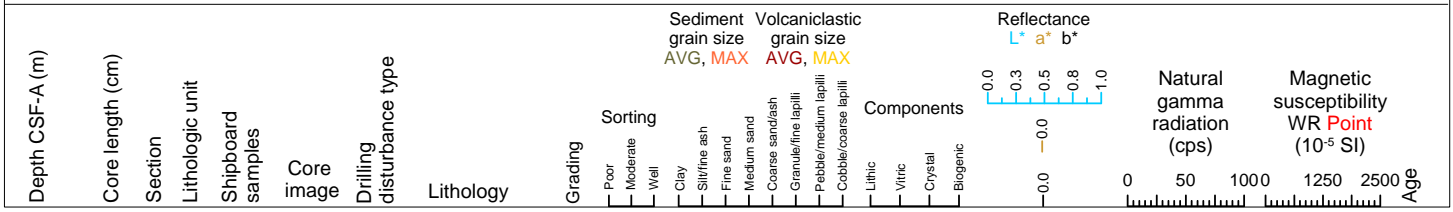
Hole 398-U1591B Core 8H, Interval 64.6-67.09 m (CSF-A)

Lapilli-ash, ash with lapilli, and minor ooze



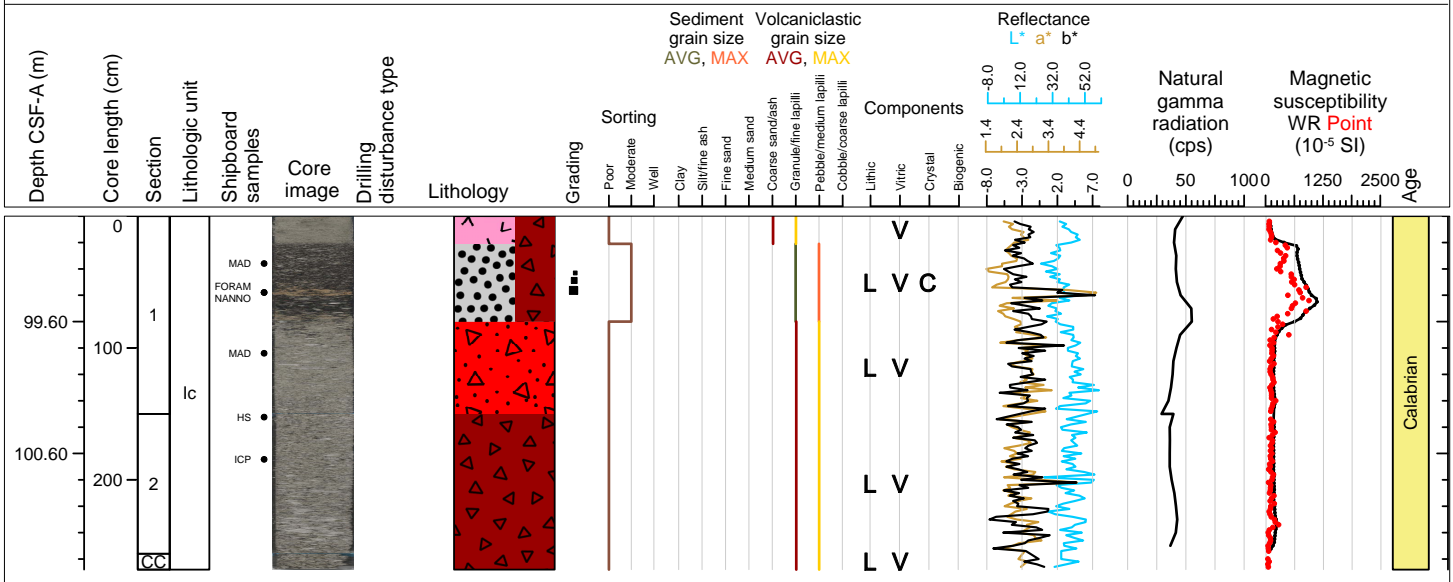
Hole 398-U1591B Core 91, Interval 74.1-74.1 m (CSF-A)

DRILLED INTERVAL 74.10-98.80 m



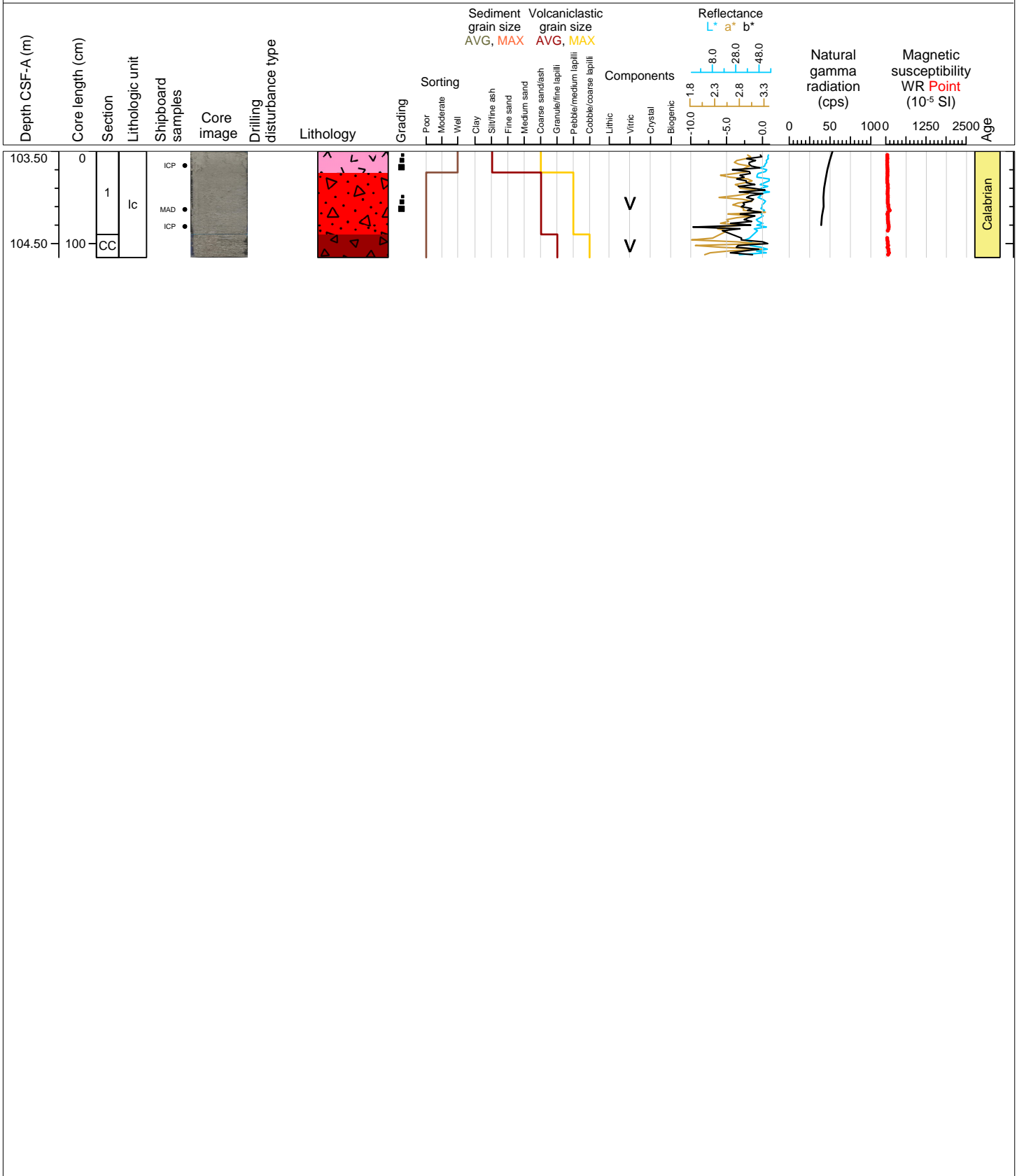
Hole 398-U1591B Core 10F, Interval 98.8-101.48 m (CSF-A)

Lapilli, lapilli-ash and lithic-rich gravel



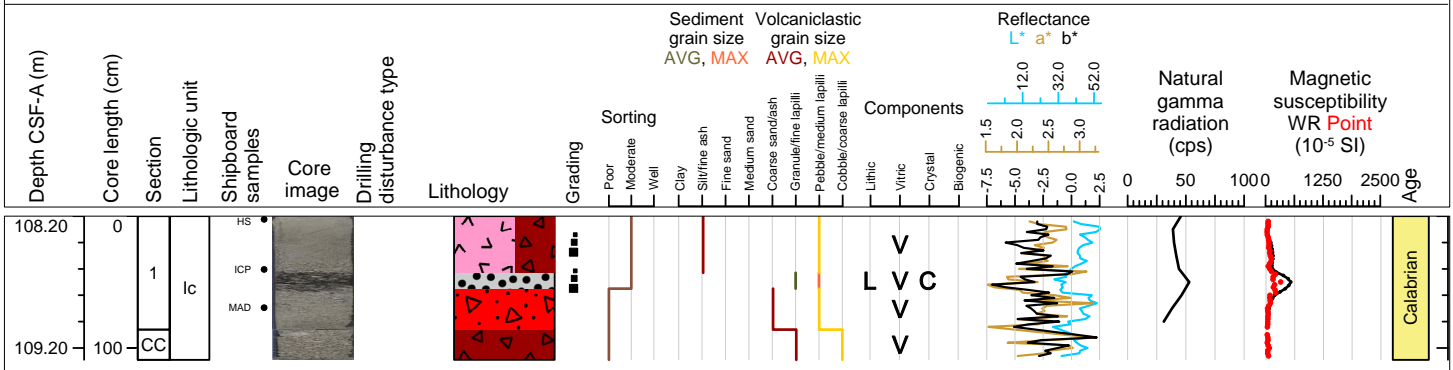
Hole 398-U1591B Core 11F, Interval 103.5-104.65 m (CSF-A)

Lapilli and ash



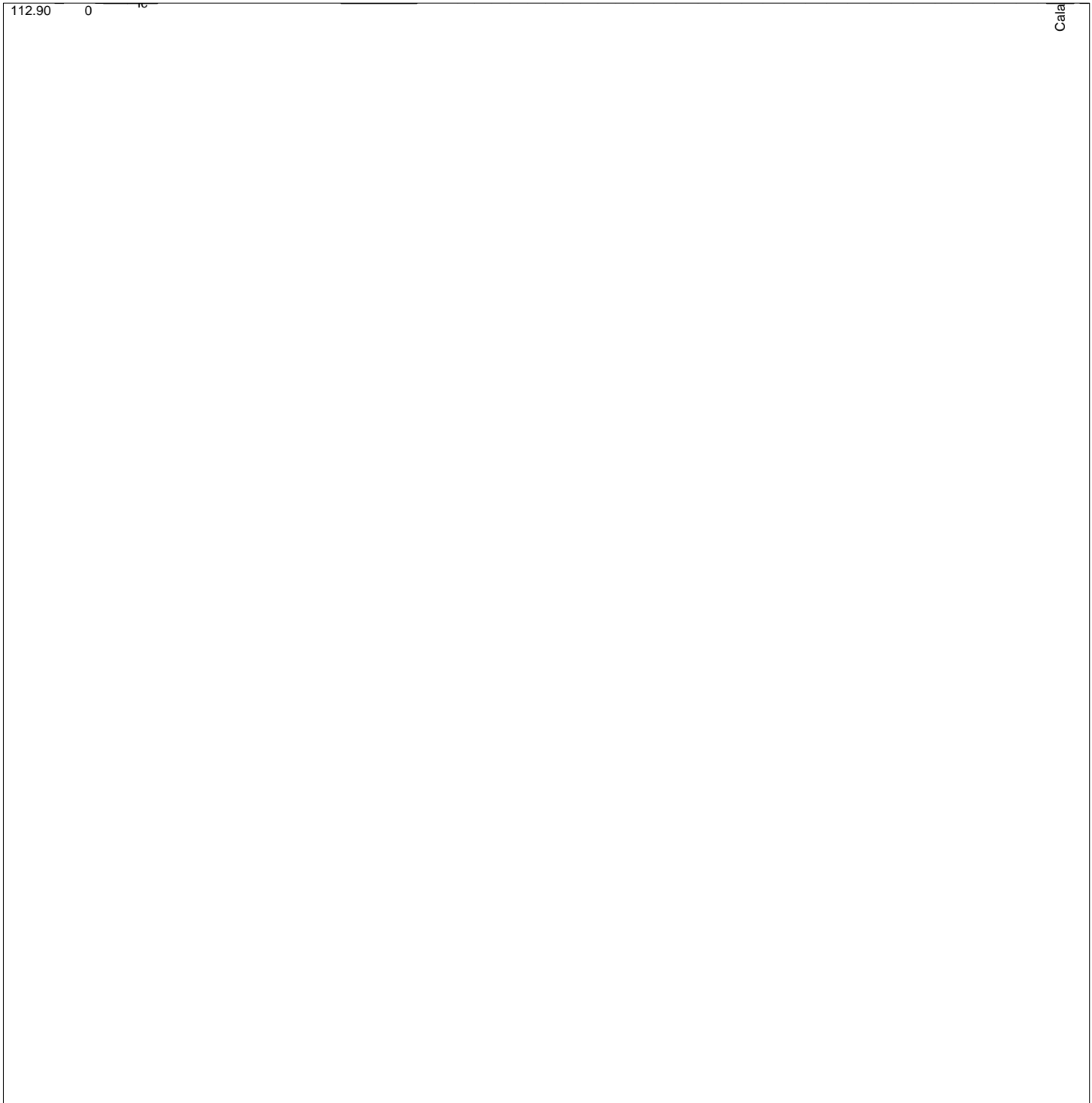
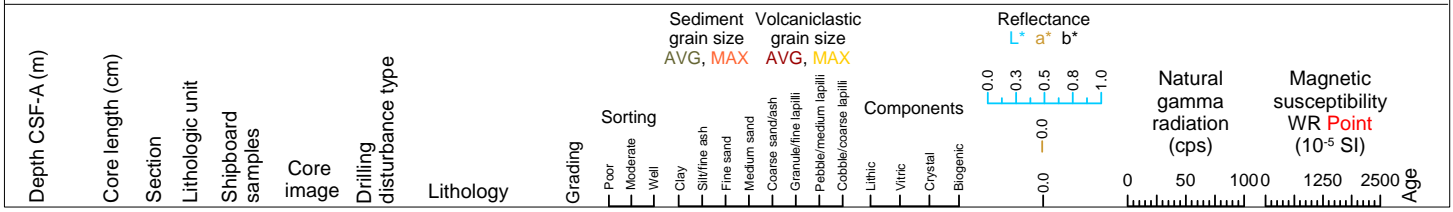
Hole 398-U1591B Core 12F, Interval 108.2-109.29 m (CSF-A)

Lapilli ash and lithic-rich gravel



Hole 398-U1591B Core 13F, Interval 112.9-112.9 m (CSF-A)

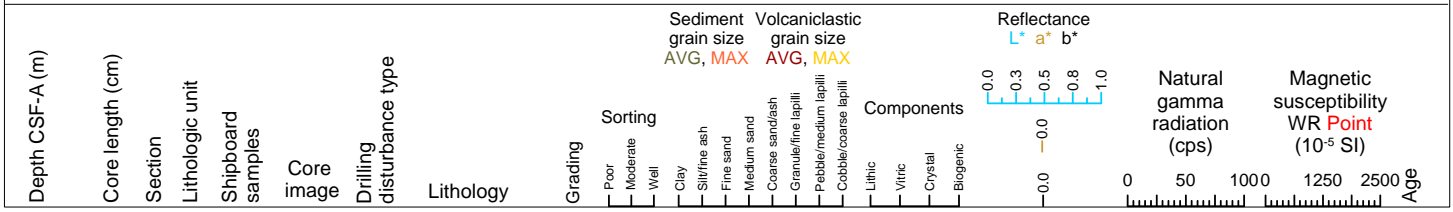
NO RECOVERY 112.9-117.6 m





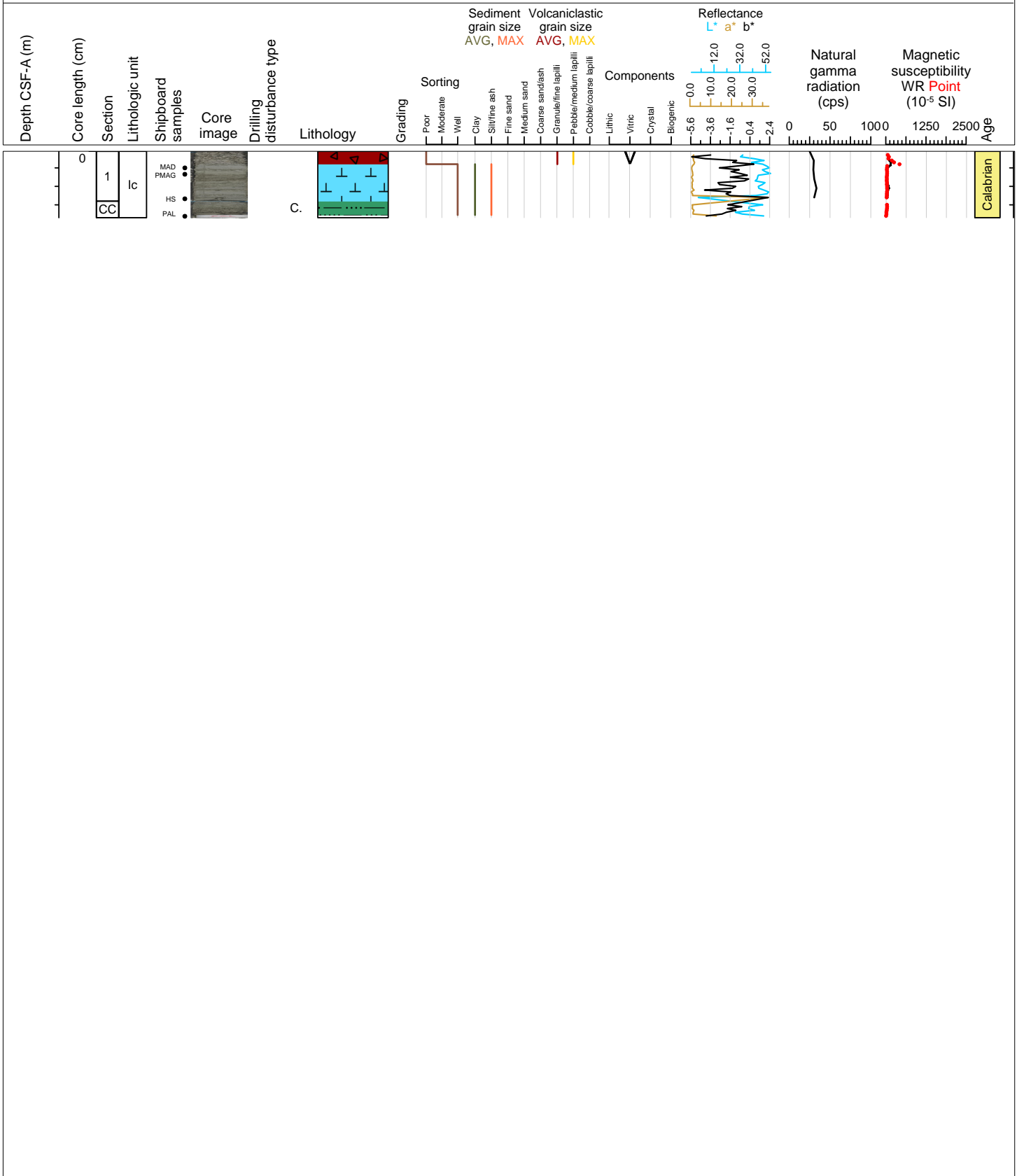
Hole 398-U1591B Core 14X, Interval 117.6-117.6 m (CSF-A)

NO RECOVERY 117.6-127.3 m



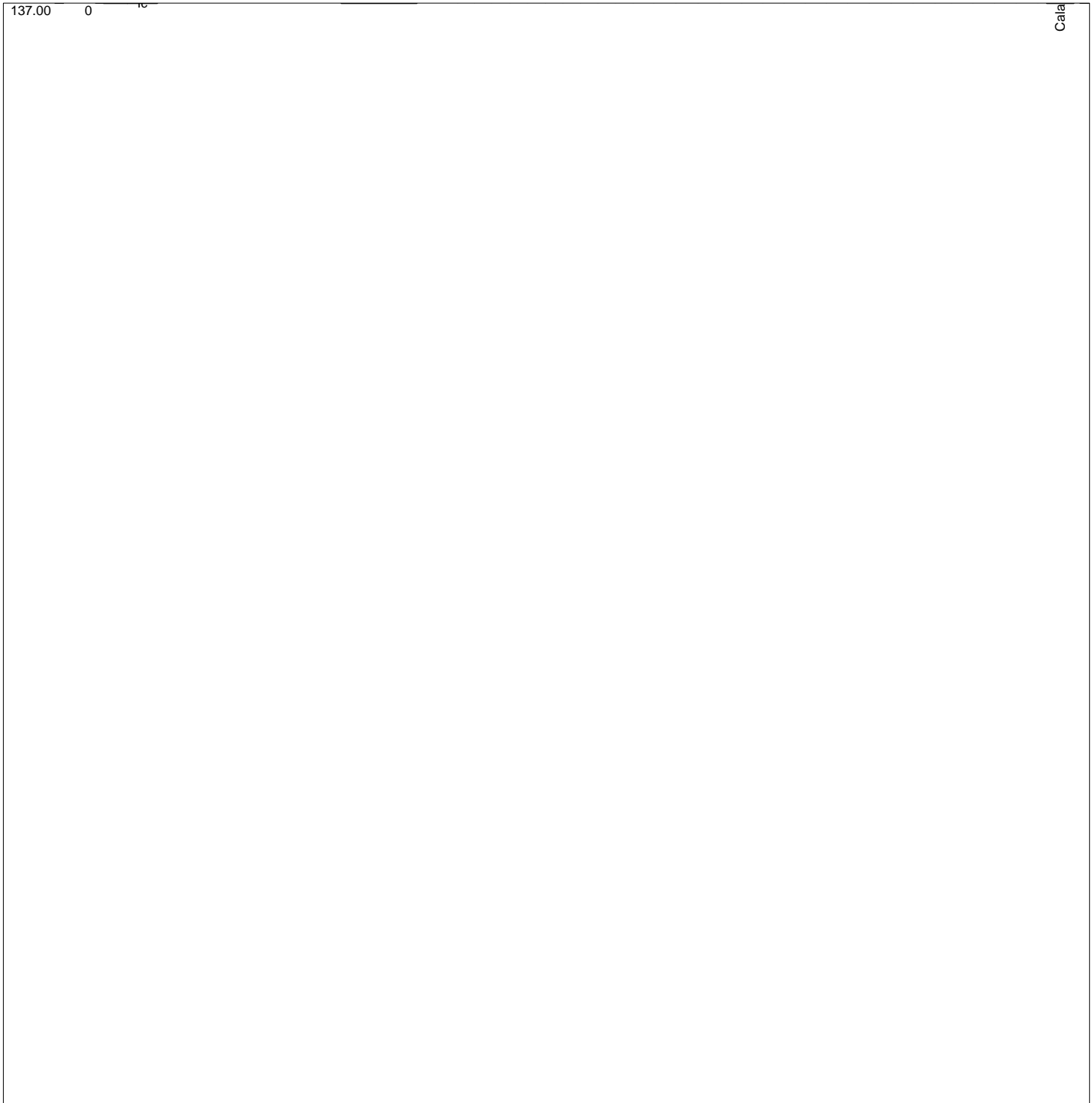
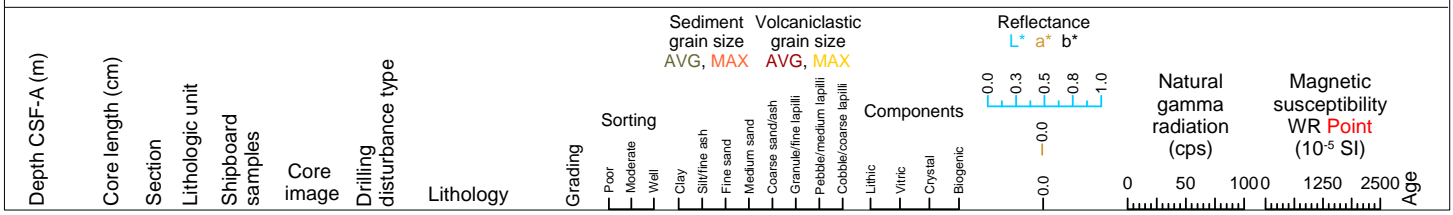
Hole 398-U1591B Core 15X, Interval 127.3-128.02 m (CSF-A)

Lapilli, ooze and calcareous mud



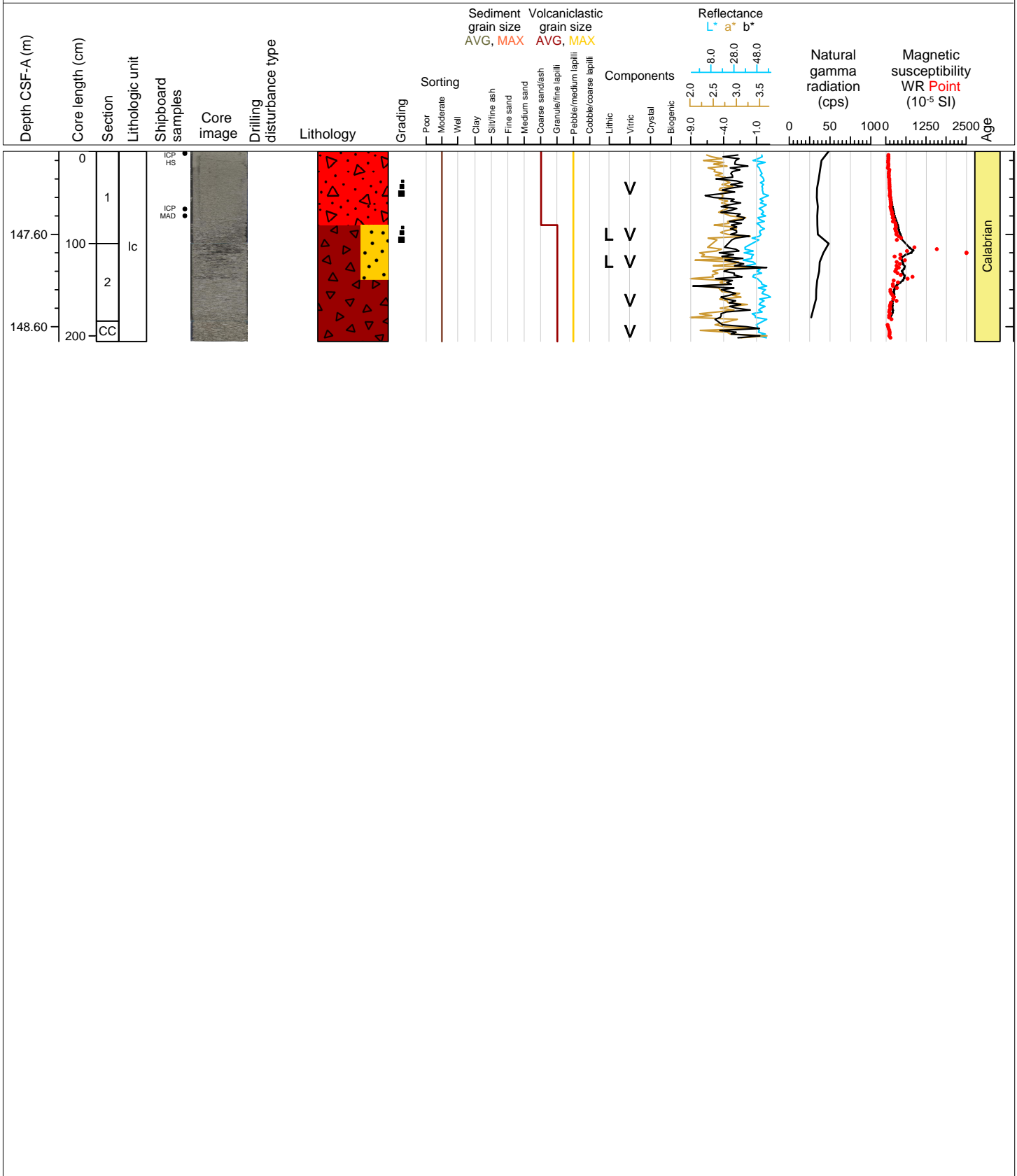
Hole 398-U1591B Core 16X, Interval 137.0-137.0 m (CSF-A)

NO RECOVERY 137.0-146.7 m



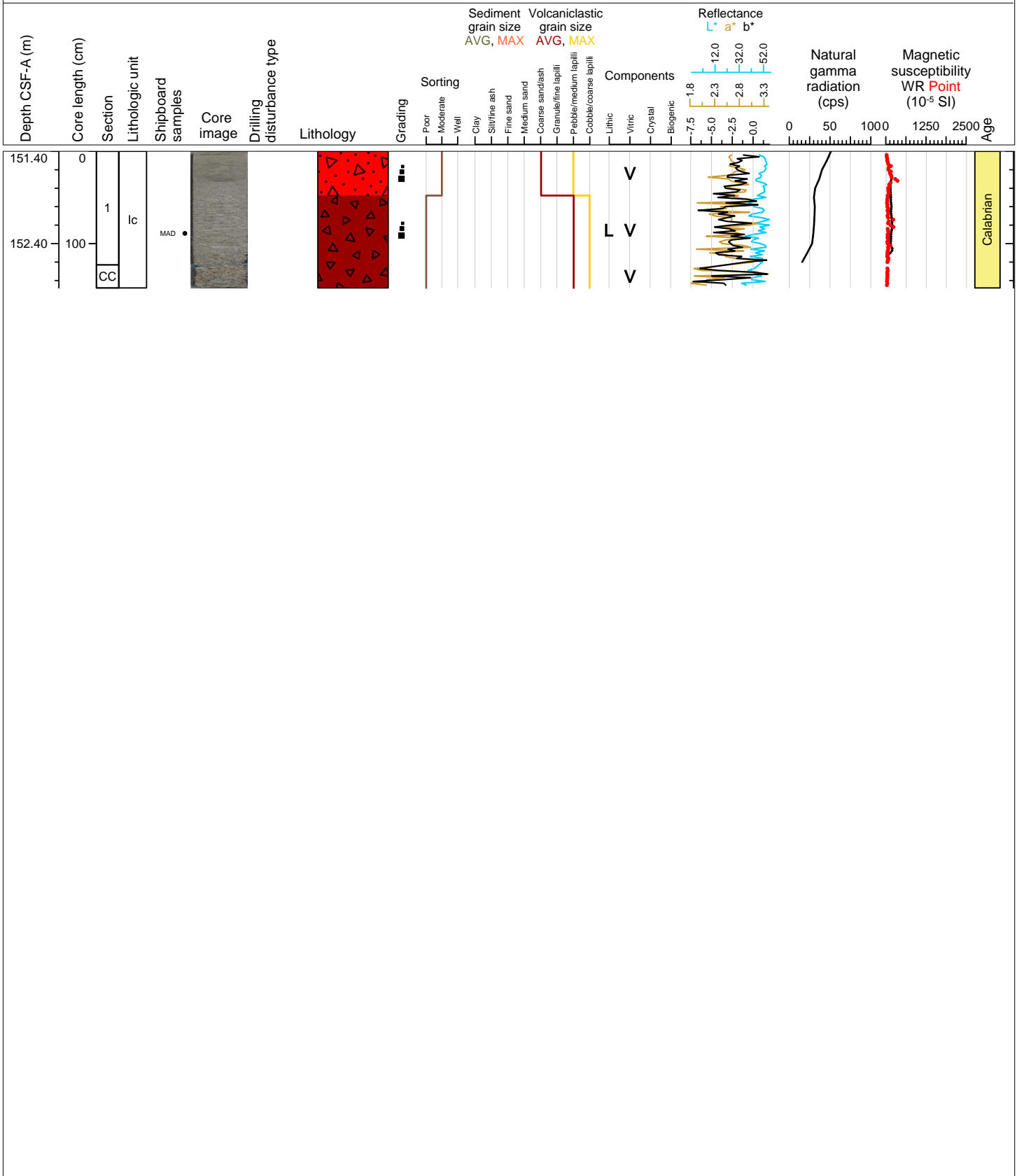
Hole 398-U1591B Core 17F, Interval 146.7-148.76 m (CSF-A)

Lapilli, lapili-ash, and lapilli with lithics



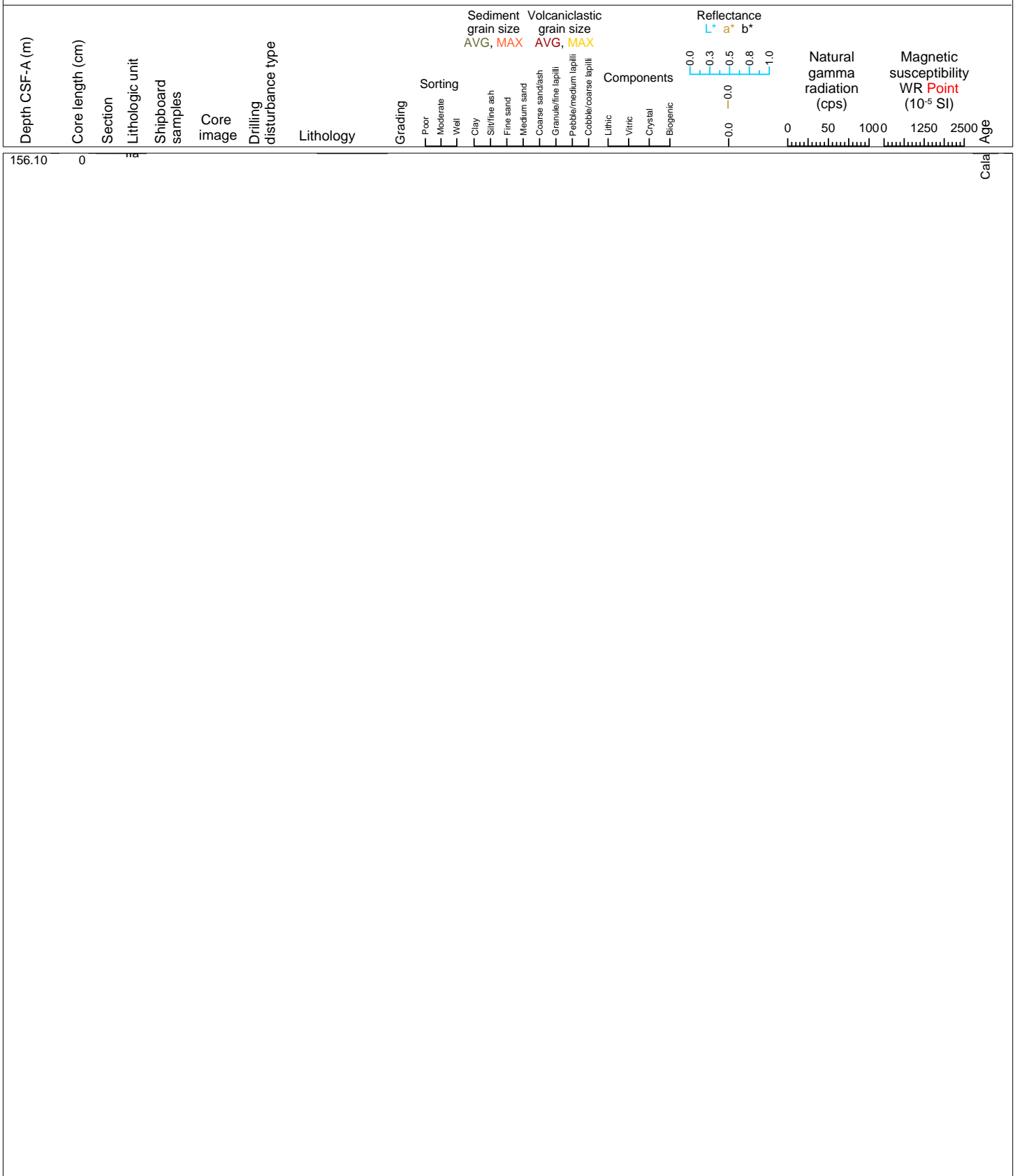
Hole 398-U1591B Core 18F, Interval 151.4-152.88 m (CSF-A)

Lapilli and lapilli-ash



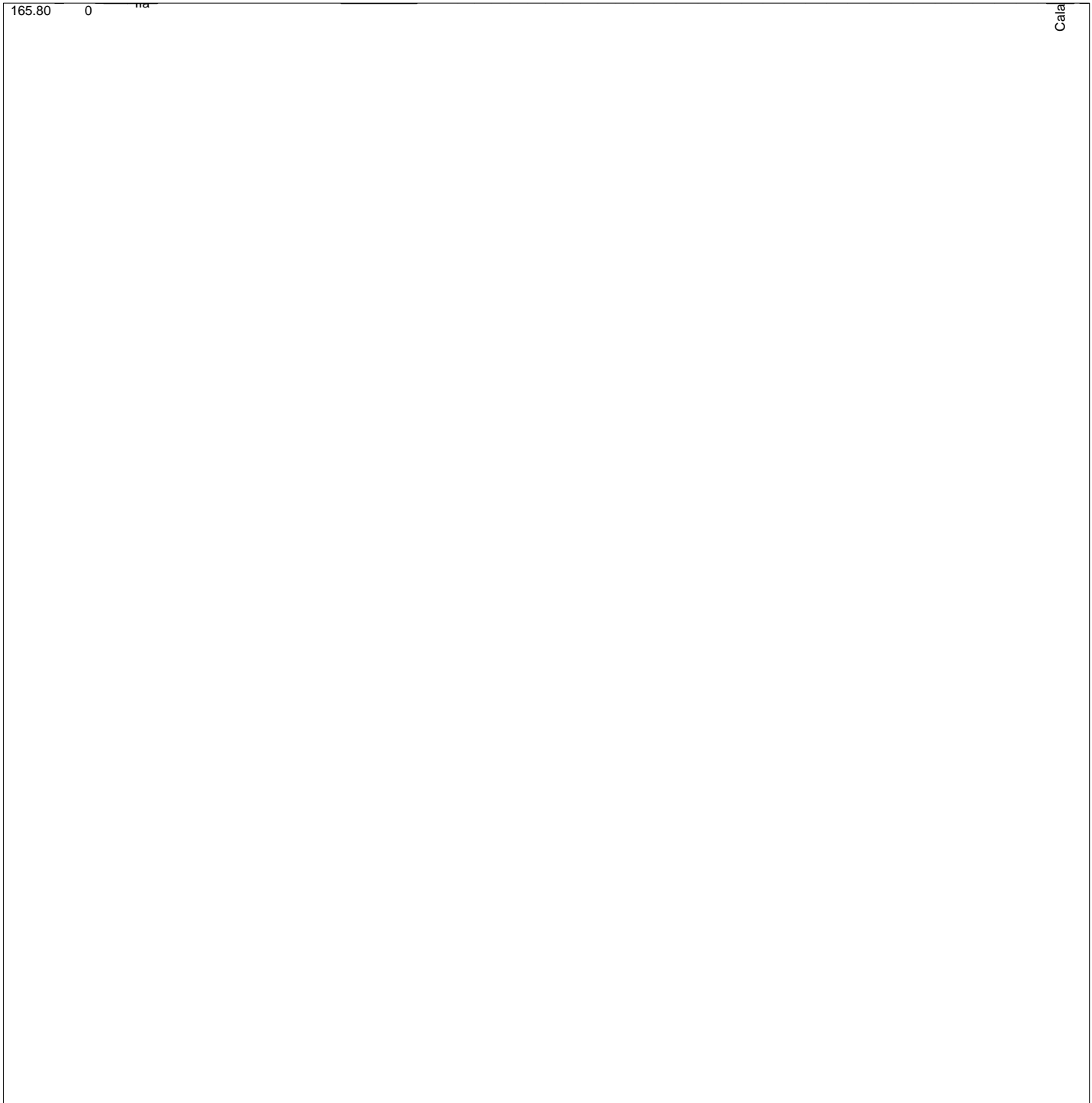
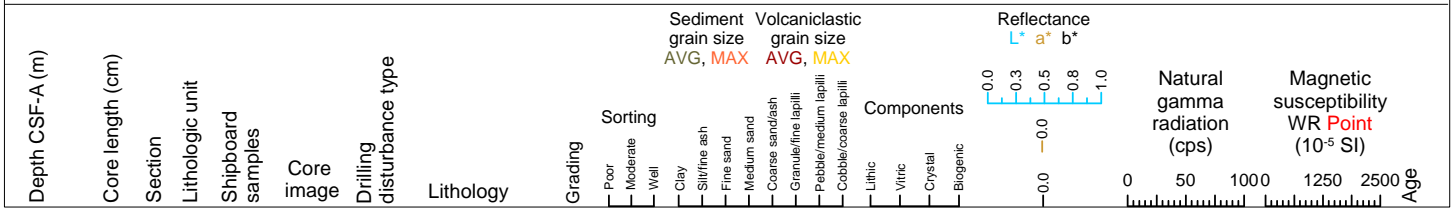
Hole 398-U1591B Core 19X, Interval 156.1-156.1 m (CSF-A)

NO RECOVERY 156.1-165.8 m



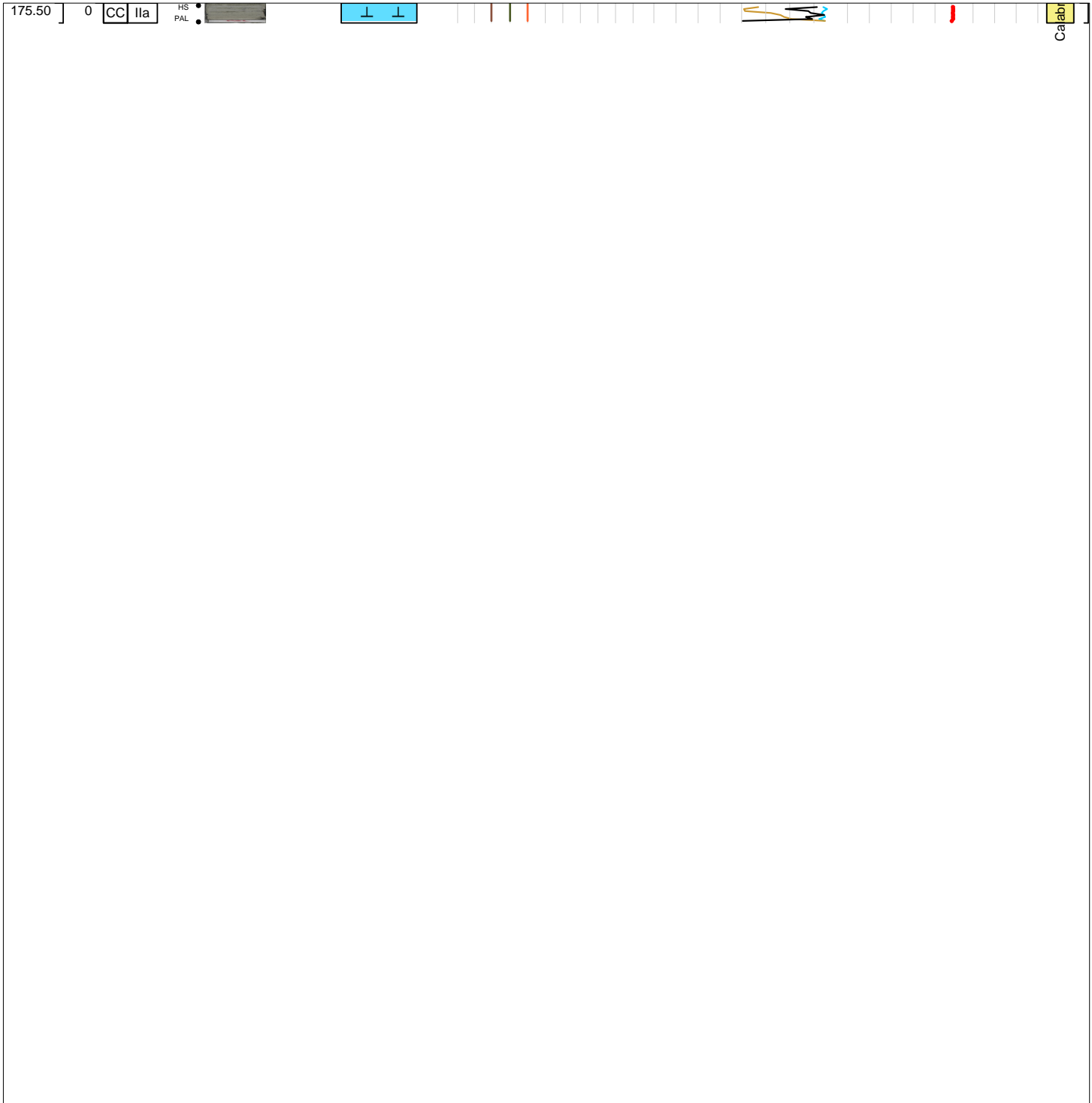
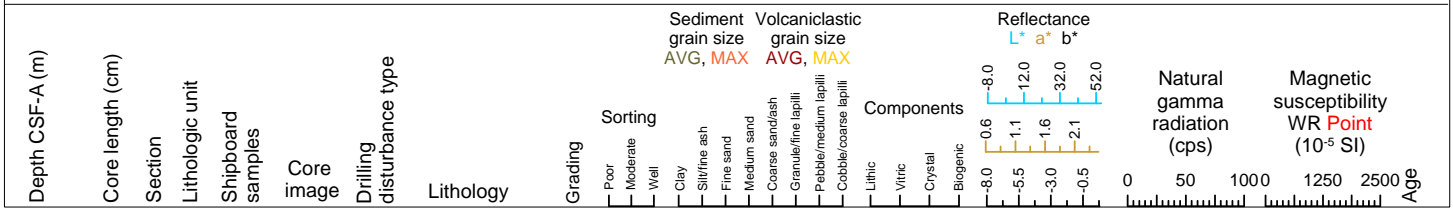
Hole 398-U1591B Core 20X, Interval 165.8-165.8 m (CSF-A)

NO RECOVERY 165.8-175.5 m



Hole 398-U1591B Core 21X, Interval 175.5-175.7 m (CSF-A)

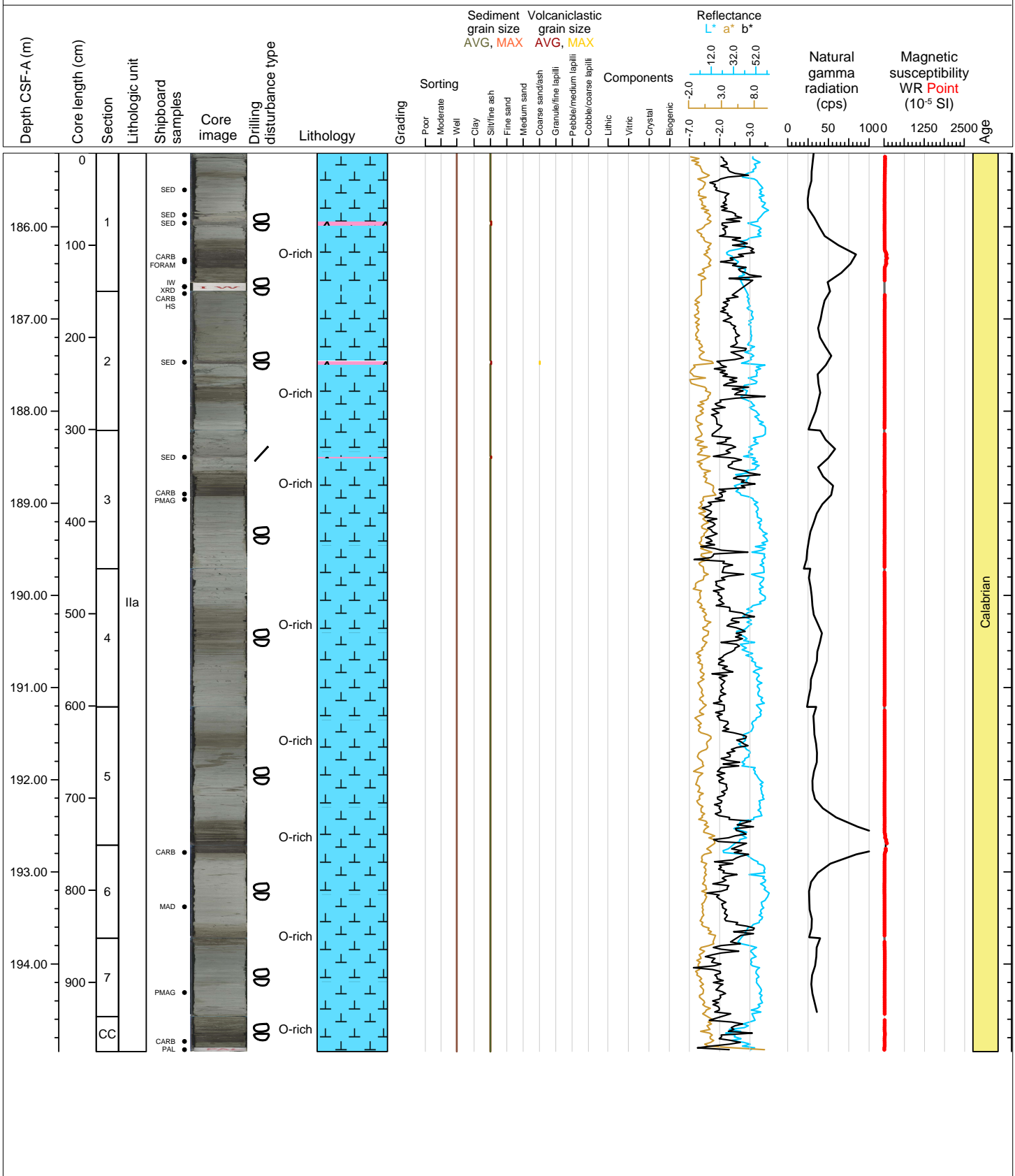
Ooze





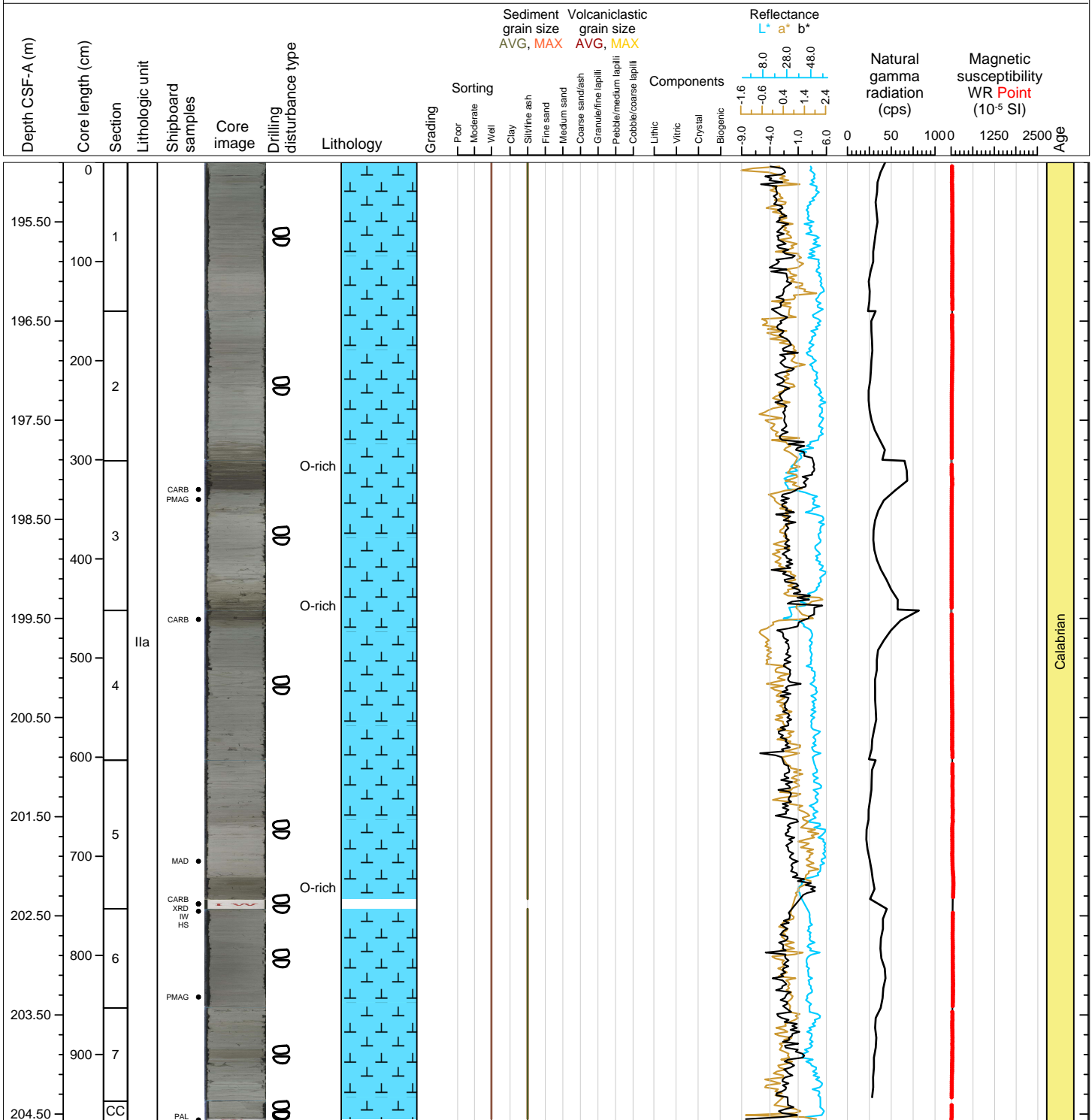
Hole 398-U1591B Core 22X, Interval 185.2-194.95 m (CSF-A)

Highly bioturbated and biscuited ooze with minor thin ash layers and organic-rich ooze



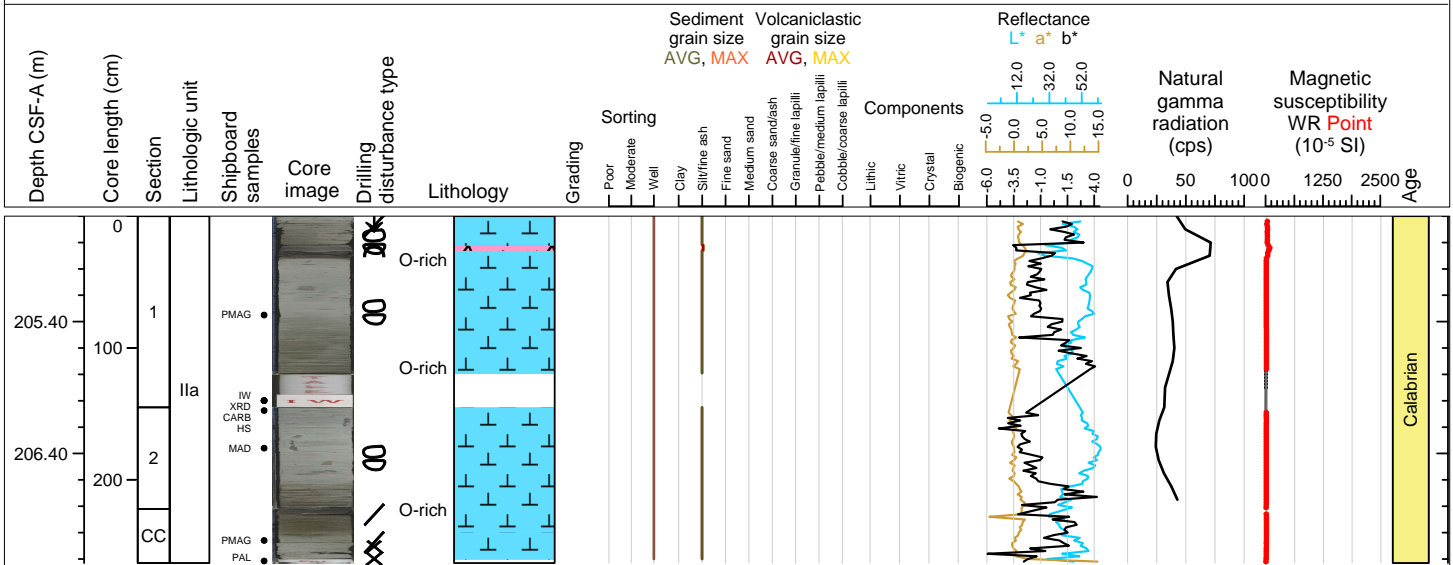
Hole 398-U1591B Core 23X, Interval 194.9-204.57 m (CSF-A)

Highly bioturbated and biscuited ooze and organic-rich ooze



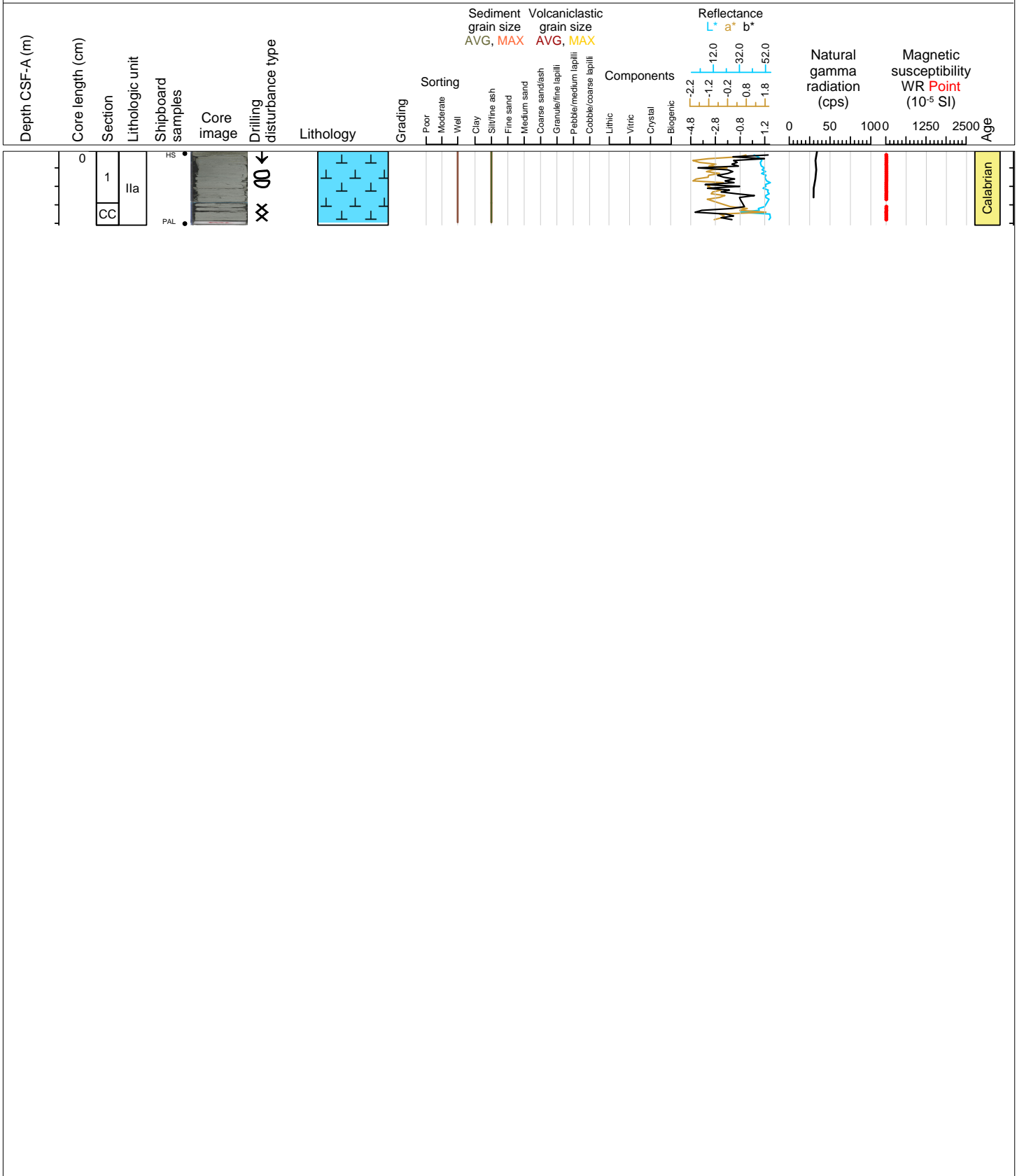
Hole 398-U1591B Core 24X, Interval 204.6-207.23 m (CSF-A)

Highly bioturbated organic-rich ooze and ooze with ash



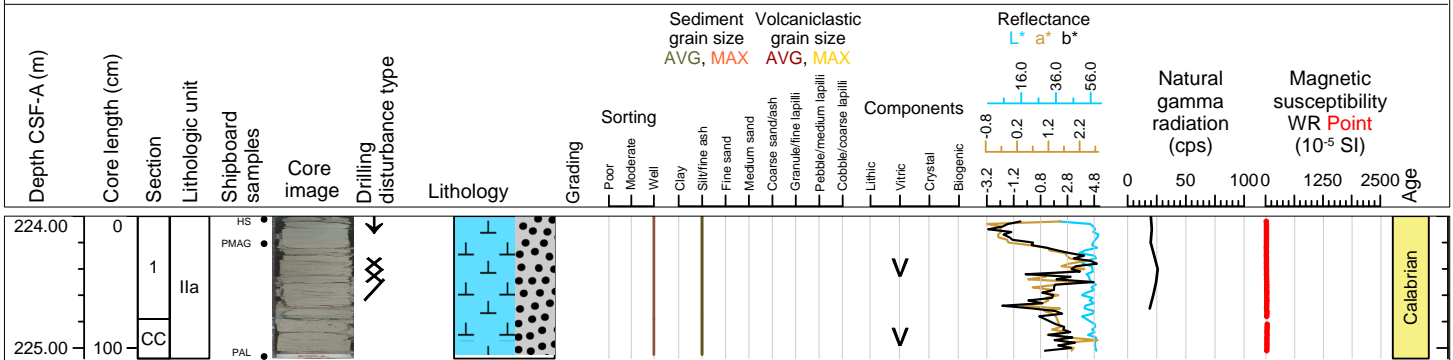
Hole 398-U1591B Core 25X, Interval 214.3-215.1 m (CSF-A)

Moderately to severely biscuited ooze



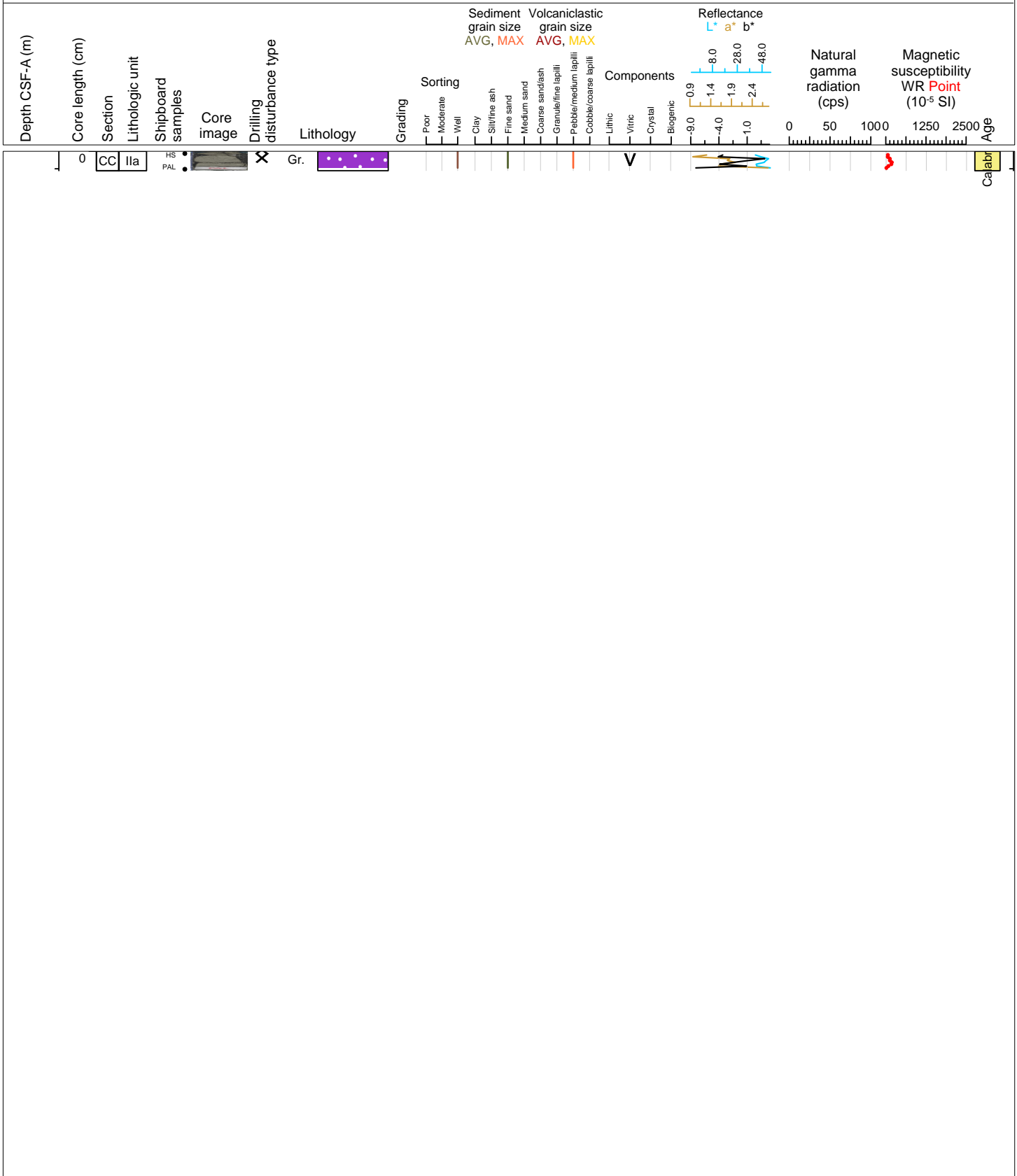
Hole 398-U1591B Core 26X, Interval 224.0-225.08 m (CSF-A)

Cracked and brecciated ooze with rounded pumice lapilli



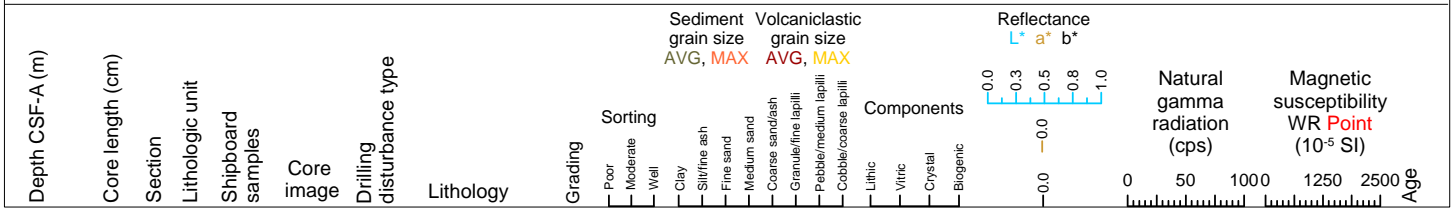
Hole 398-U1591B Core 27X, Interval 233.7-233.91 m (CSF-A)

Brecciated gravelly ooze



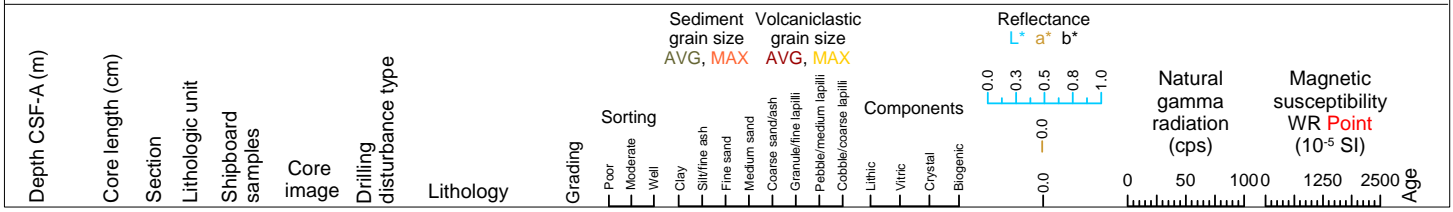
Hole 398-U1591B Core 28X, Interval 243.4-243.4 m (CSF-A)

NO RECOVERY 243.4-253.1 m



Hole 398-U1591B Core 29X, Interval 253.1-253.13 m (CSF-A)

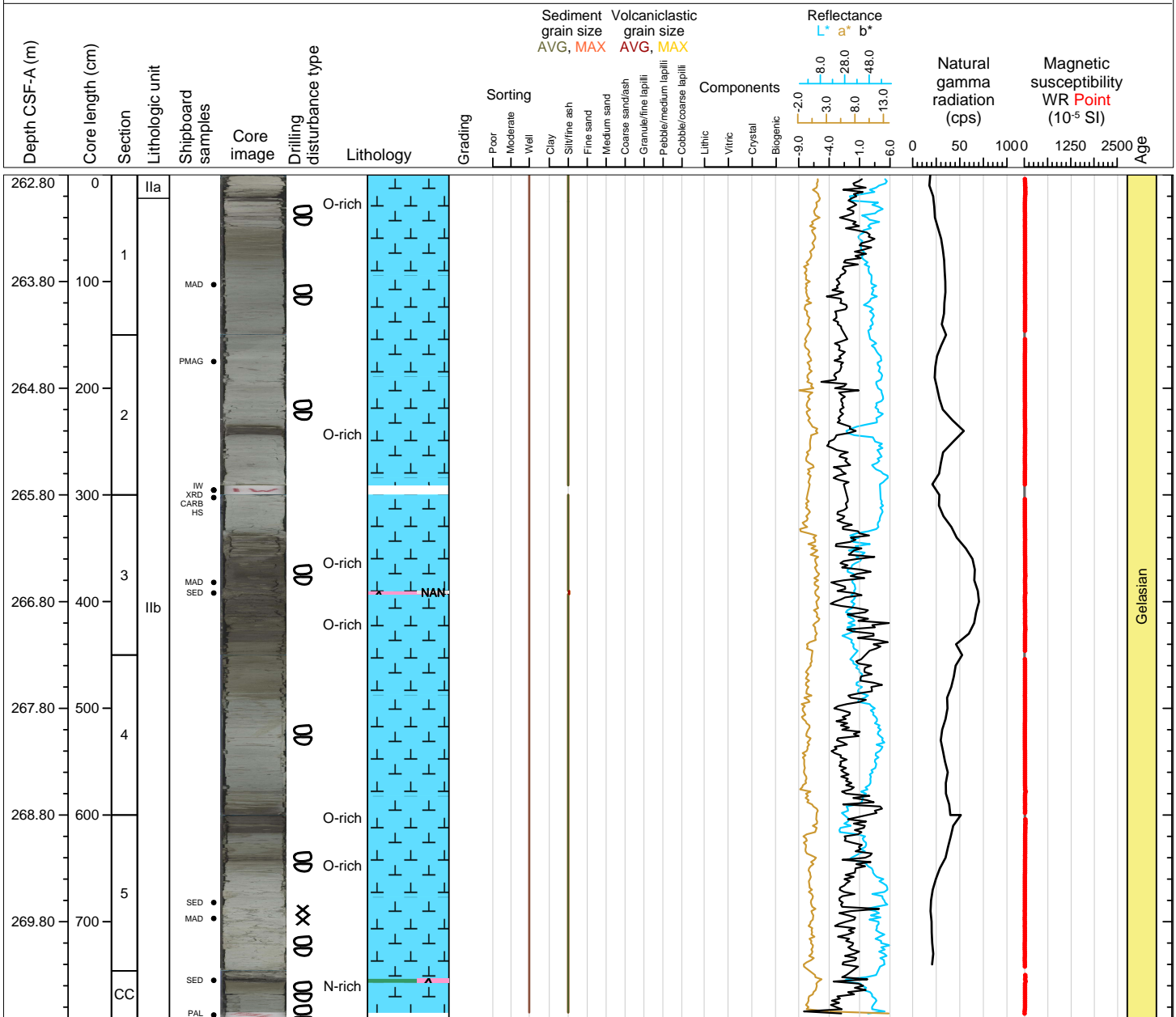
ALL TO PAL





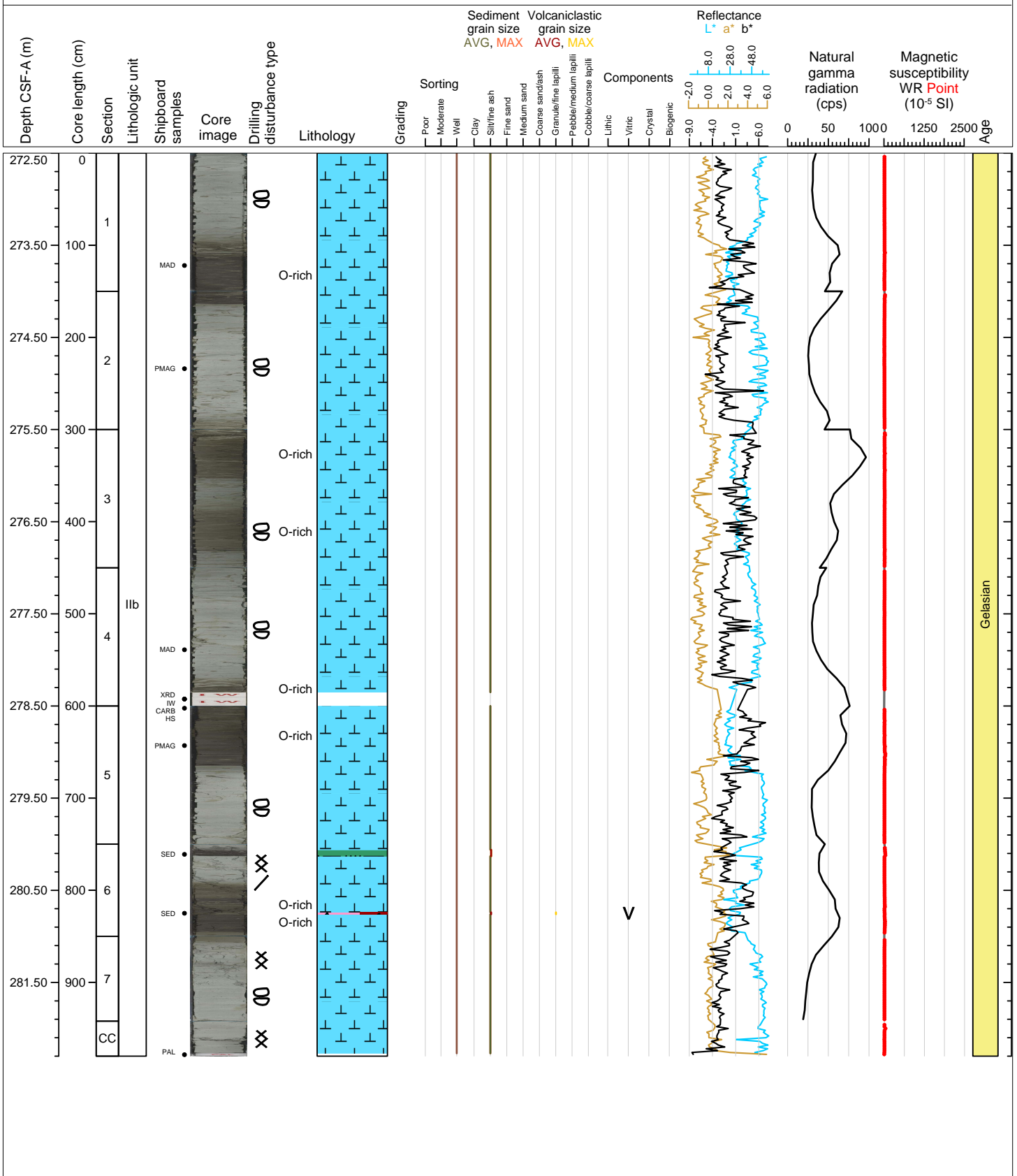
Hole 398-U1591B Core 30X, Interval 262.8-270.7 m (CSF-A)

Ooze, organic rich ooze and nannofossil-rich mud with ash.



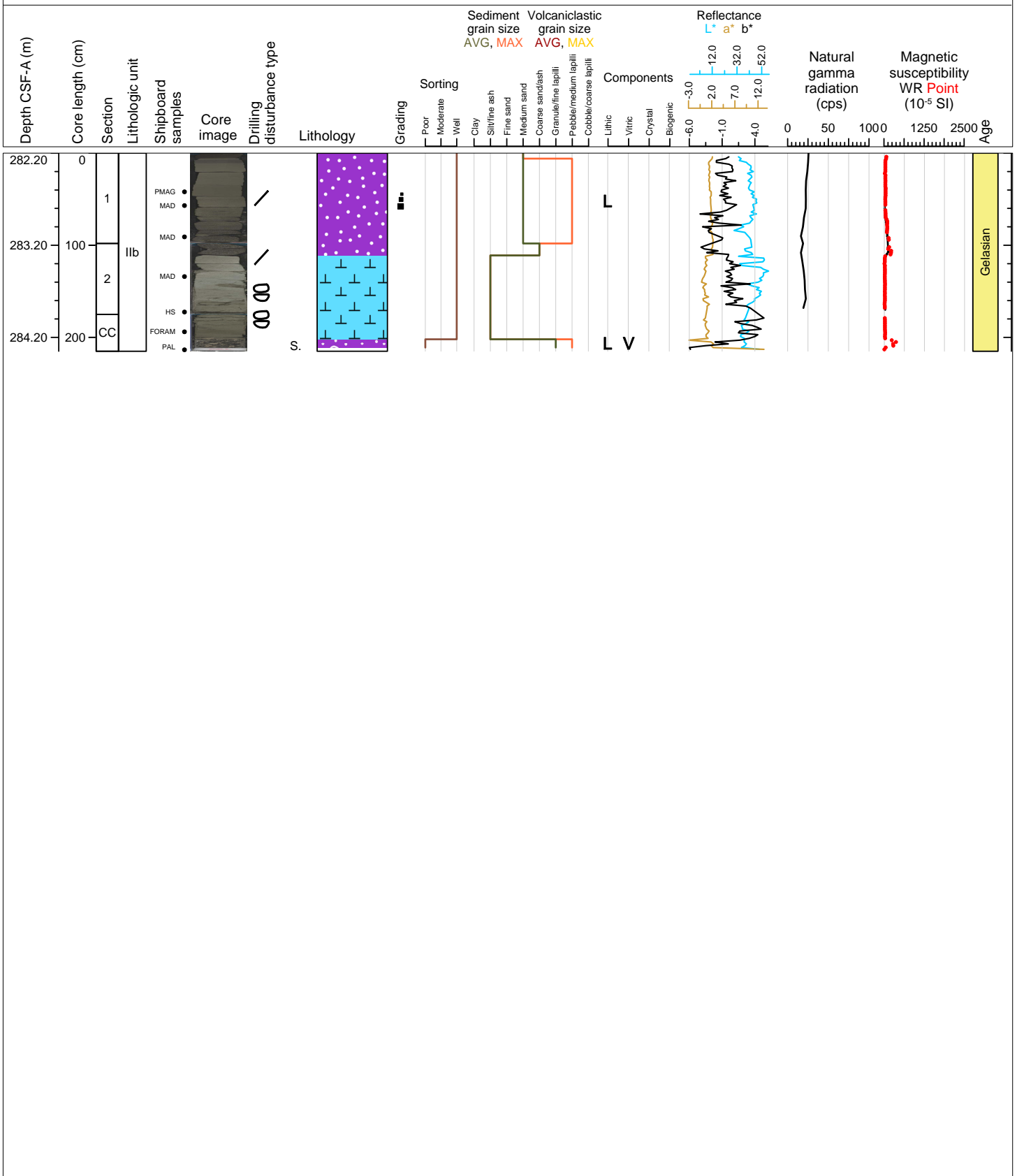
Hole 398-U1591B Core 31X, Interval 272.5-282.3 m (CSF-A)

Ooze, organic rich ooze, ash with lapilli and mud.



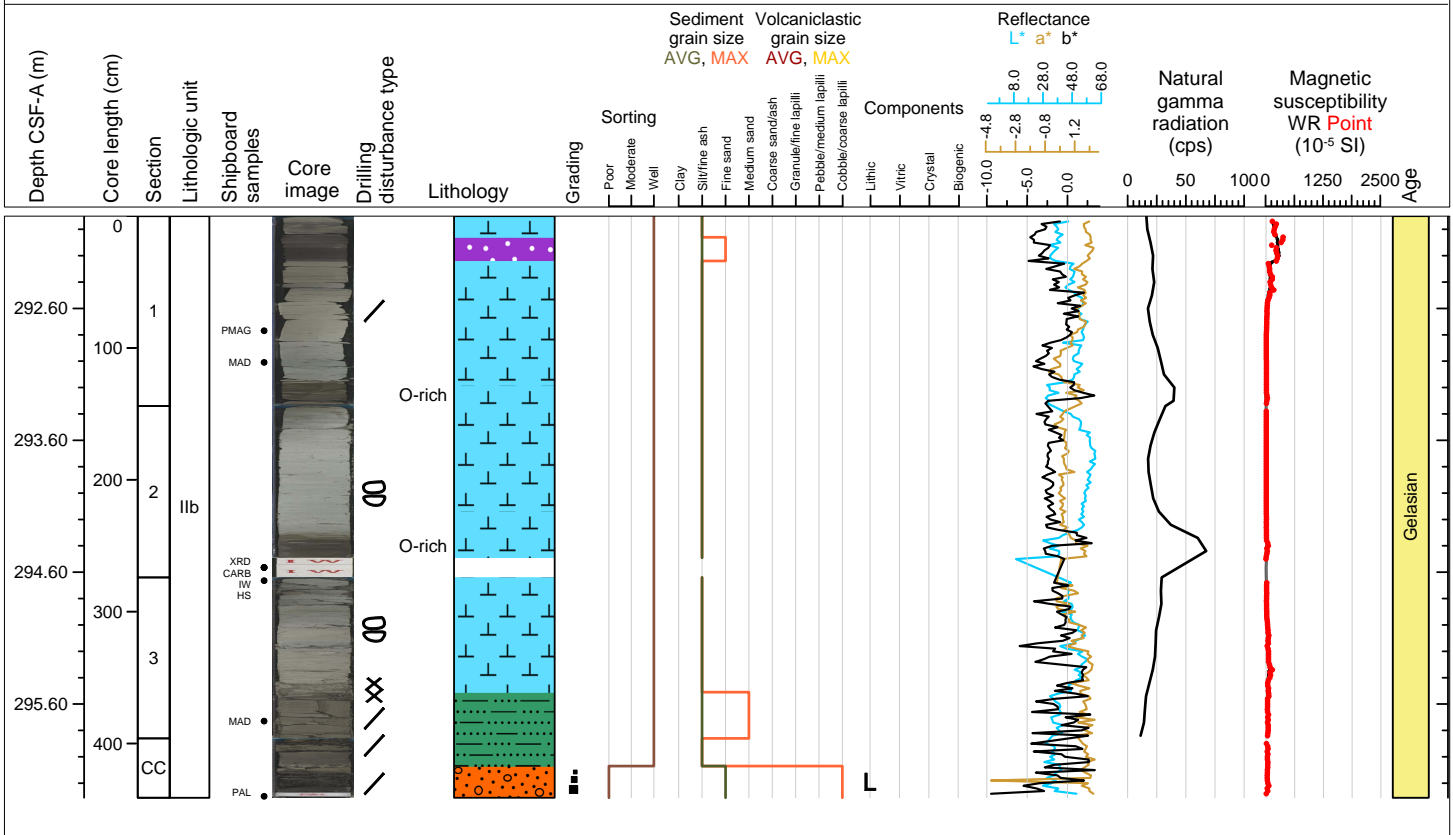
Hole 398-U1591B Core 32X, Interval 282.2-284.35 m (CSF-A)

Tuffaceous sand, ooze and conglomerate.



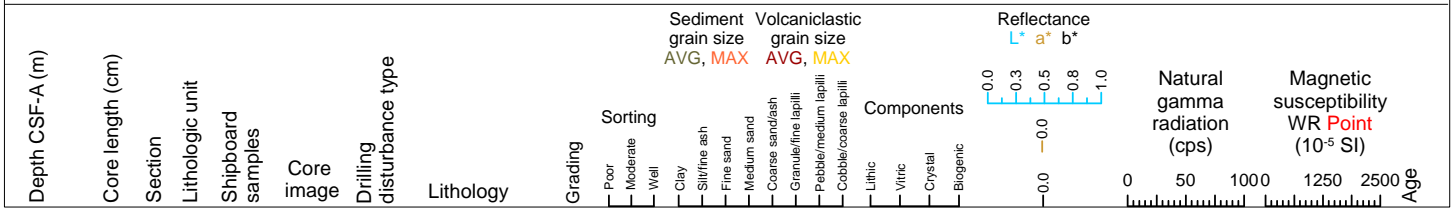
Hole 398-U1591B Core 33X, Interval 291.9-296.31 m (CSF-A)

Ooze, organic rich ooze, tuffaceous sand, mud and conglomerate.



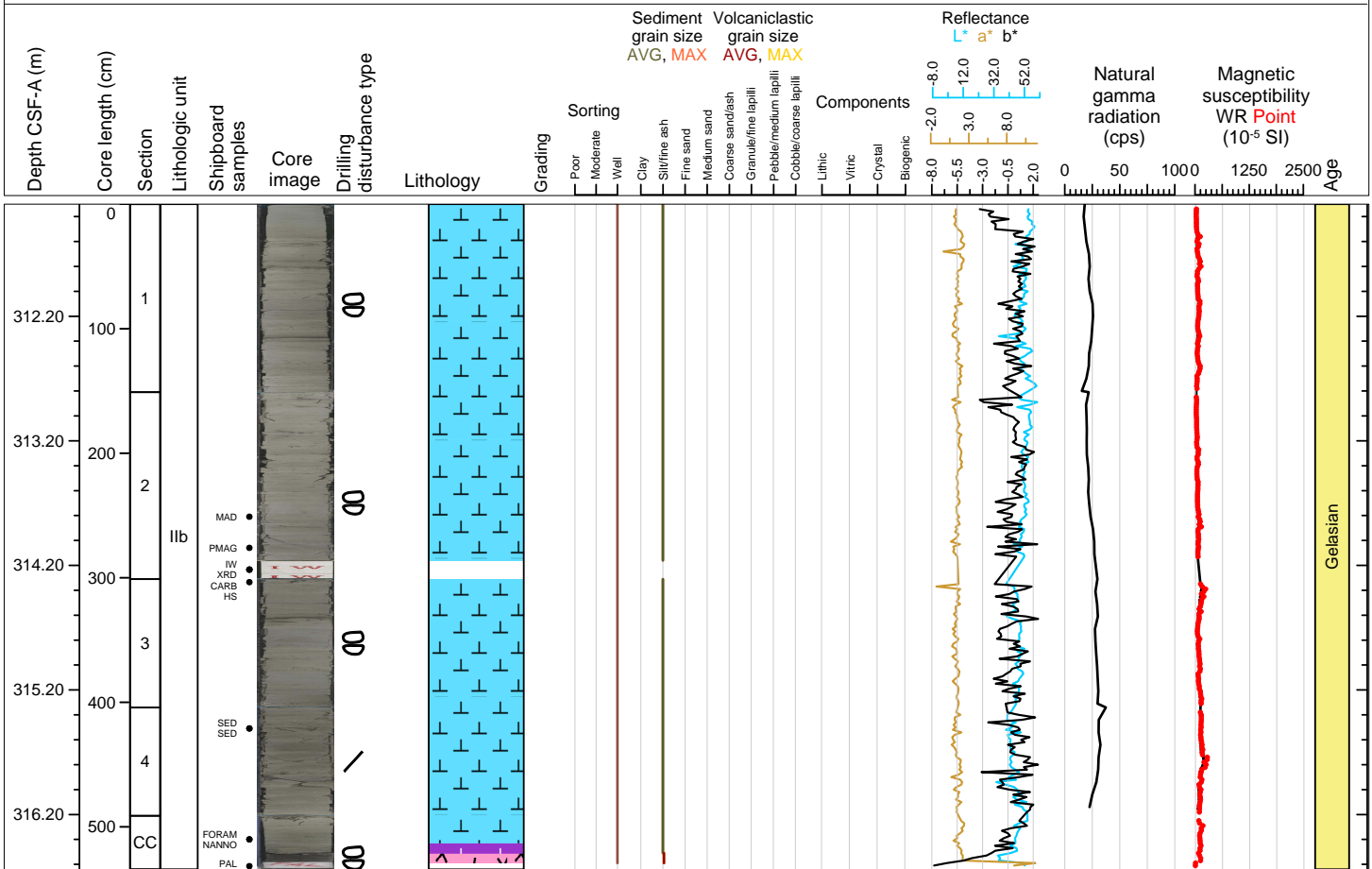
Hole 398-U1591B Core 34X, Interval 301.6-301.62 m (CSF-A)

ALL TO PAL



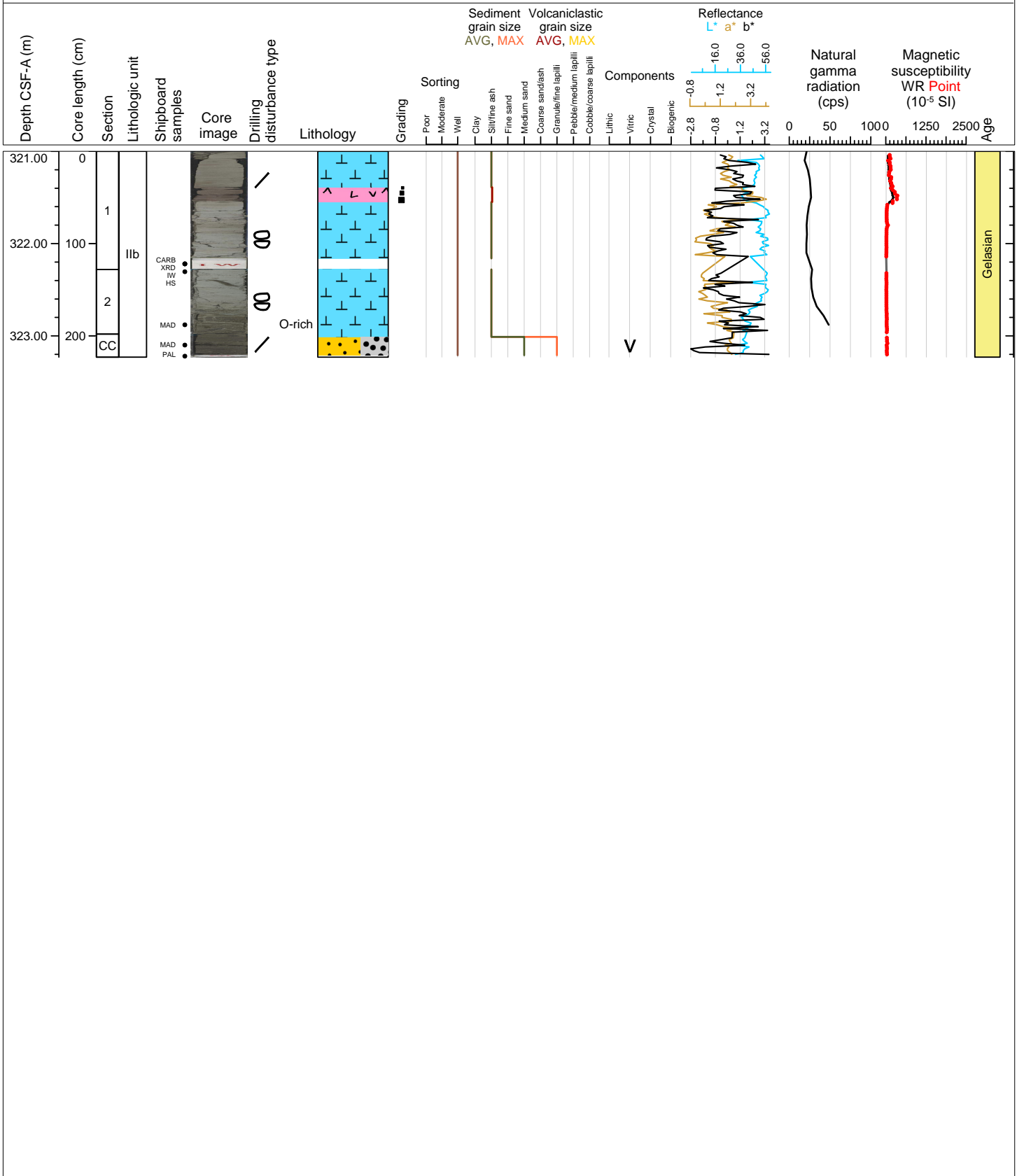
Hole 398-U1591B Core 35X, Interval 311.3-316.64 m (CSF-A)

Ooze, tuffaceous ooze and ash.



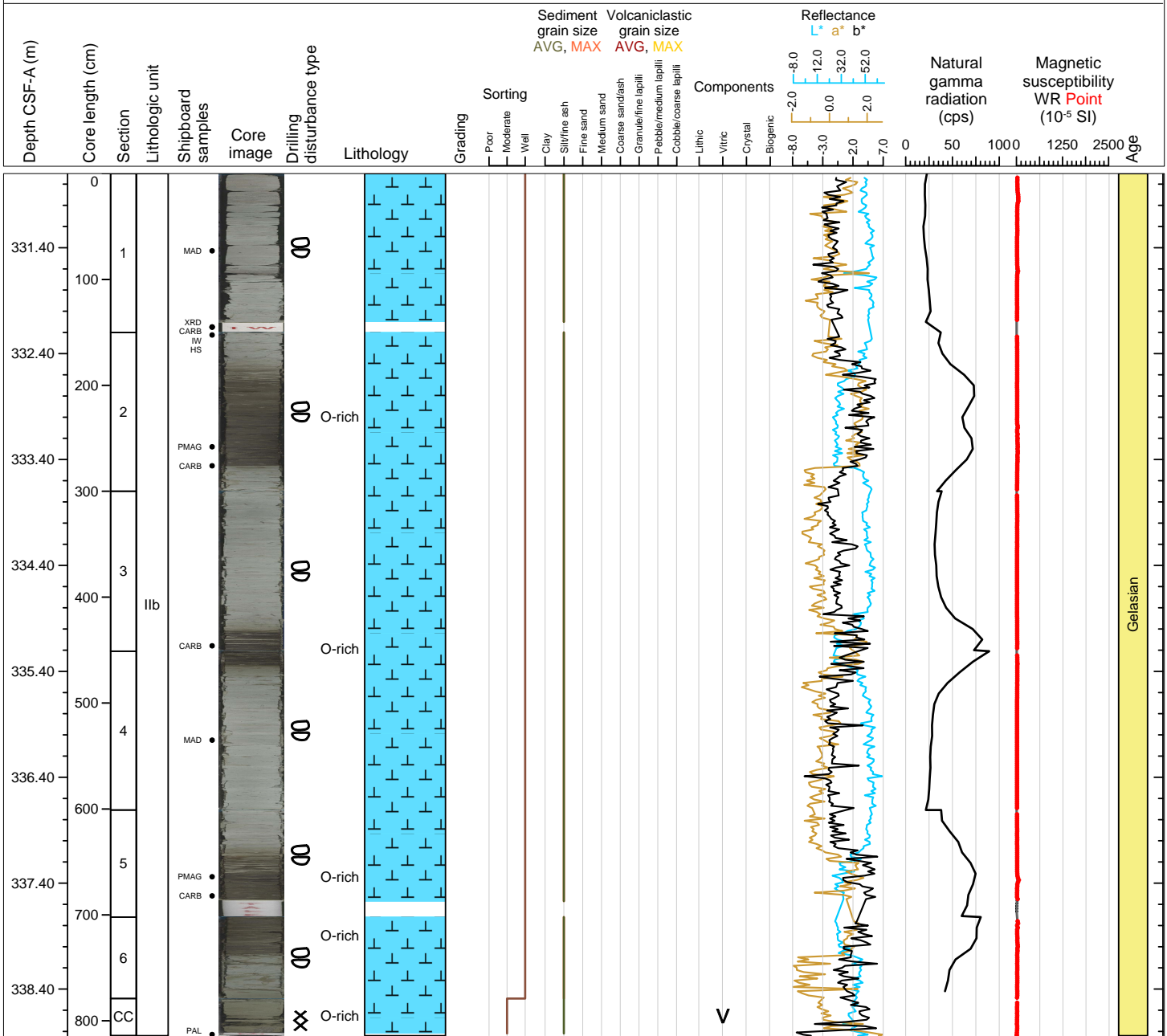
Hole 398-U1591B Core 36X, Interval 321.0-323.23 m (CSF-A)

Ooze, organic rich ooze, ash and sand with granules.



Hole 398-U1591B Core 37X, Interval 330.7-338.84 m (CSF-A)

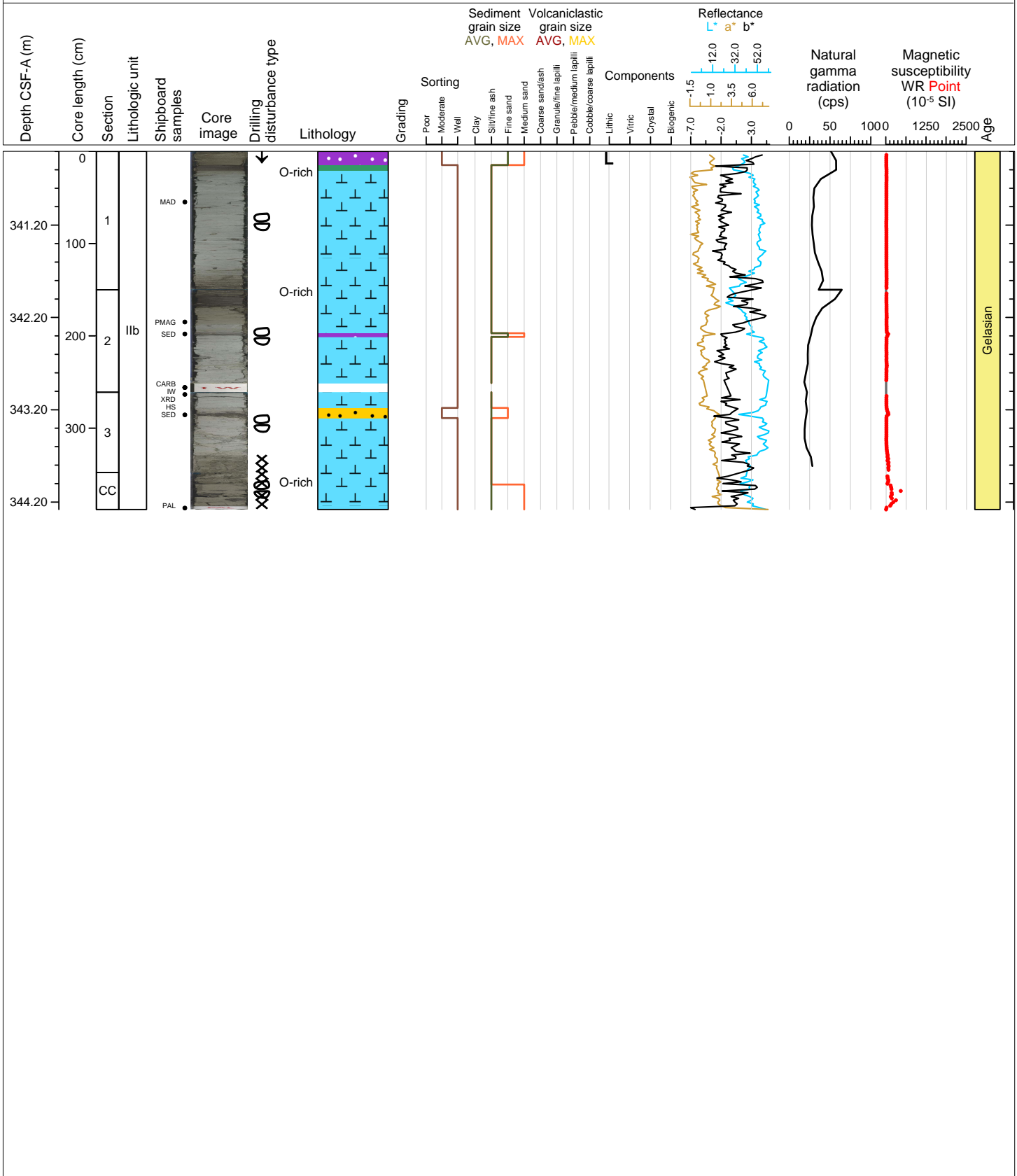
Ooze and organic rich ooze.





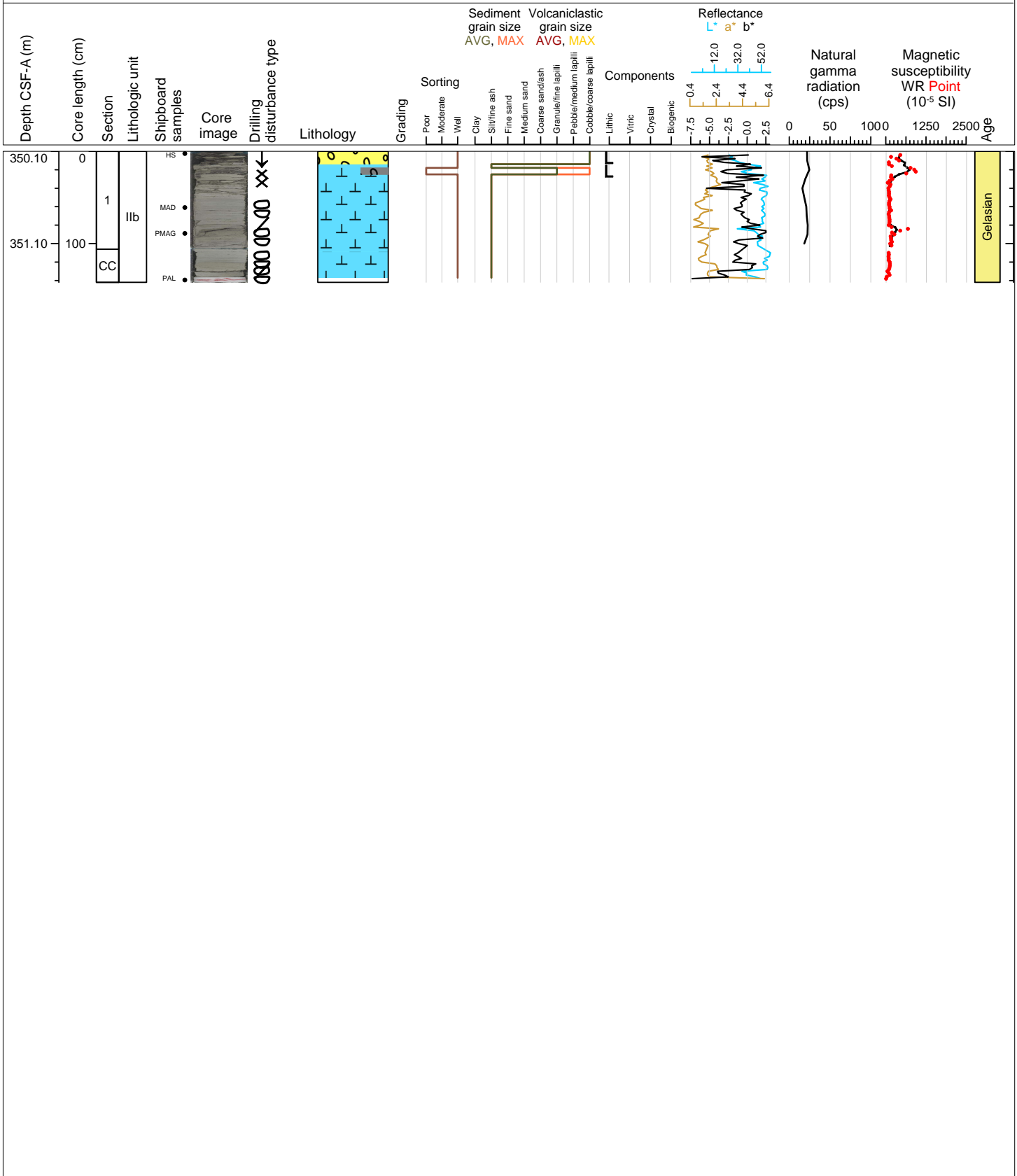
Hole 398-U1591B Core 38X, Interval 340.4-344.28 m (CSF-A)

Ooze, organic rich ooze, tuffaceous sand and sand.



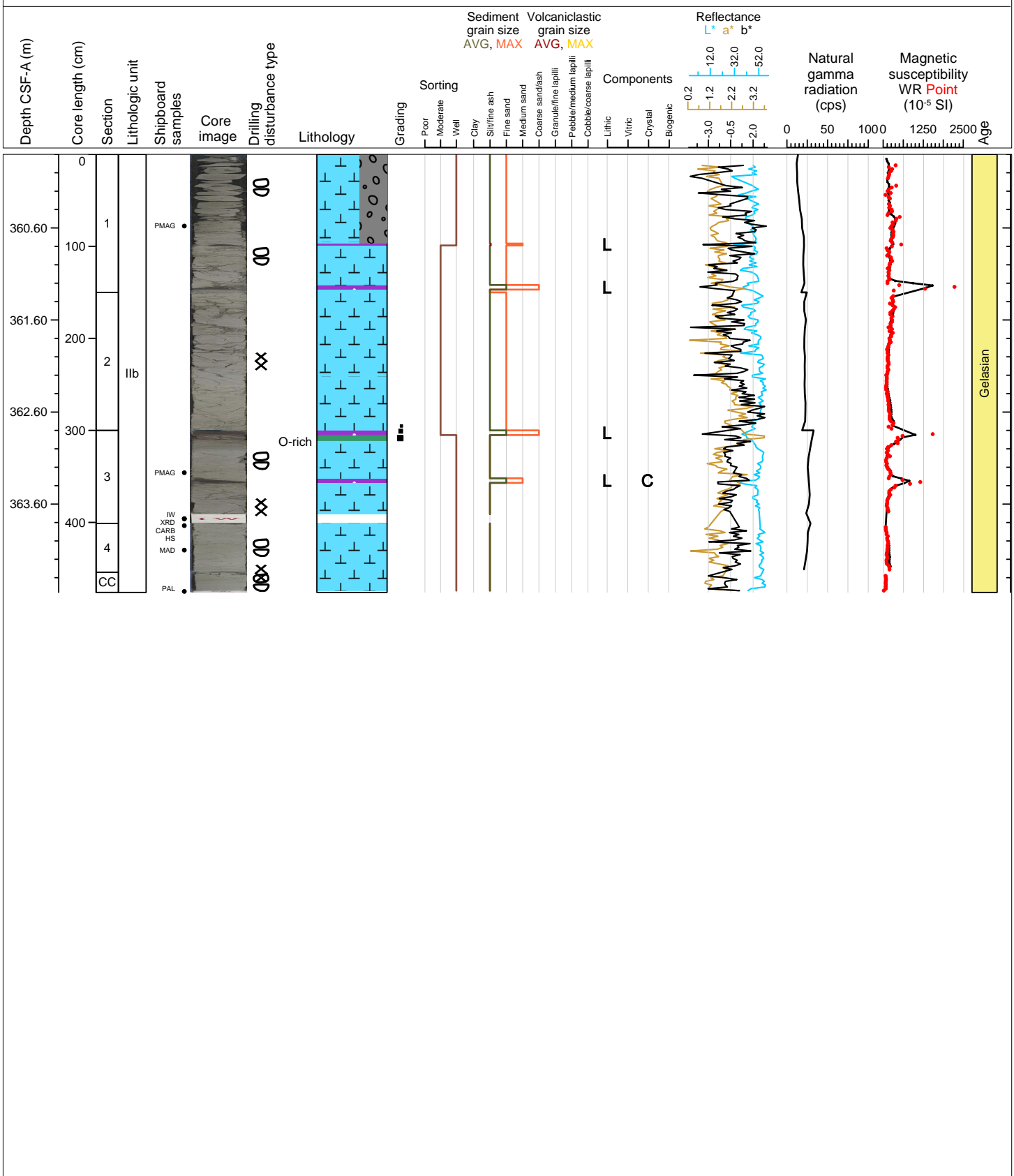
Hole 398-U1591B Core 39X, Interval 350.1-351.52 m (CSF-A)

Ooze, ooze with pebbles and lithic cobbles.



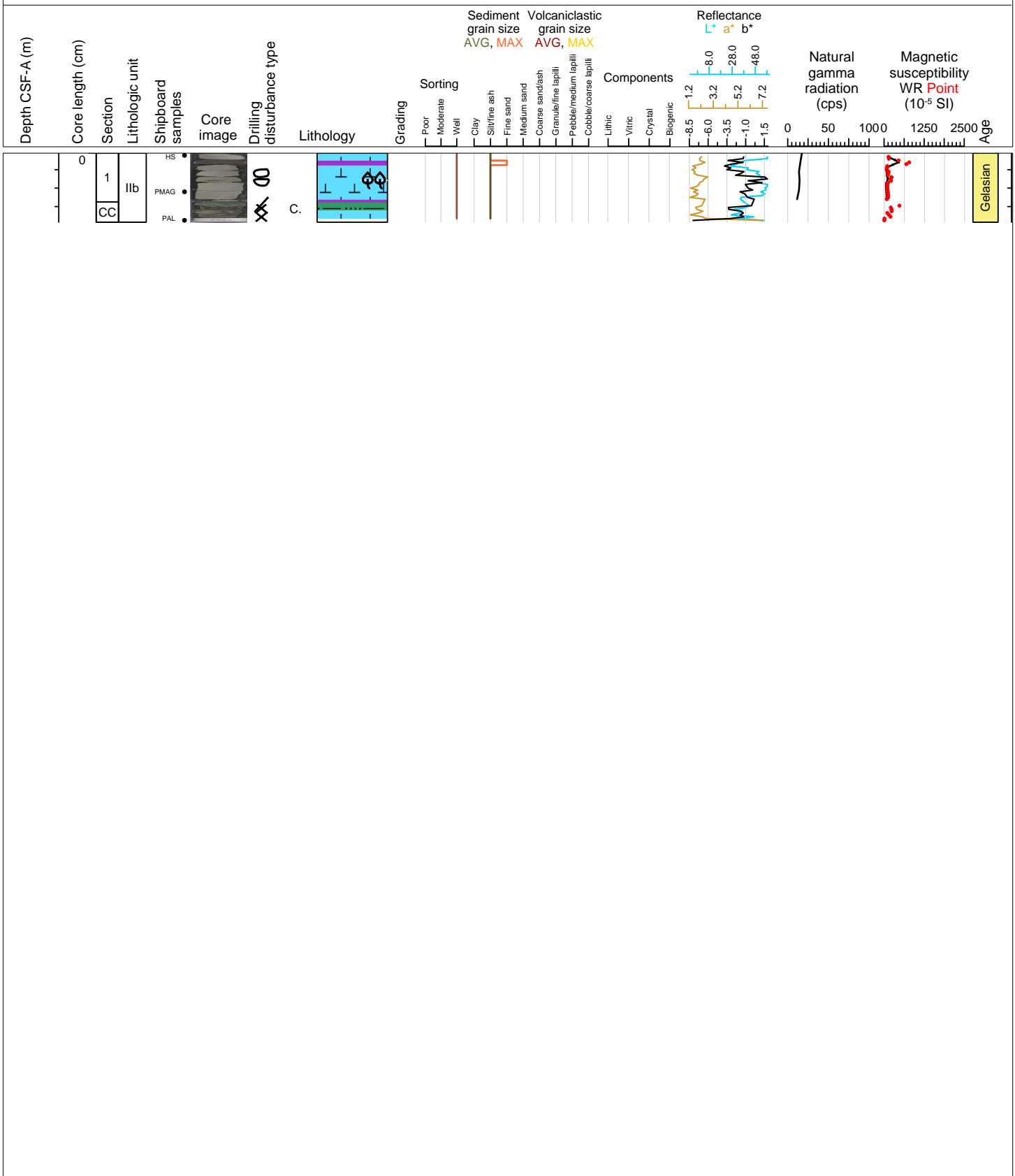
Hole 398-U1591B Core 40X, Interval 359.8-364.56 m (CSF-A)

Ooze, organic rich mud and tuffaceous sand.



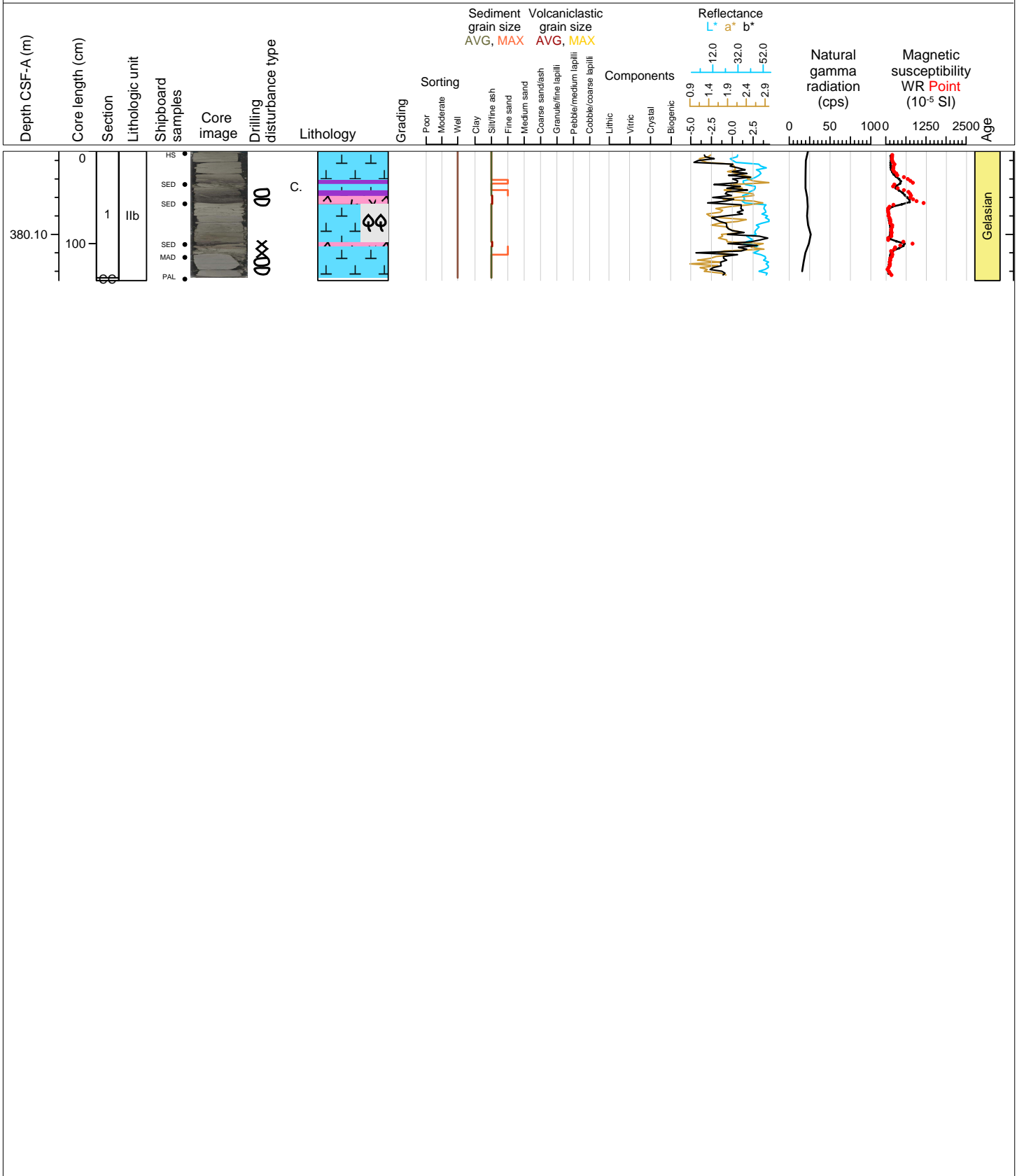
Hole 398-U1591B Core 41X, Interval 369.5-370.25 m (CSF-A)

Ooze, ooze with organic material and tuffaceous mud.



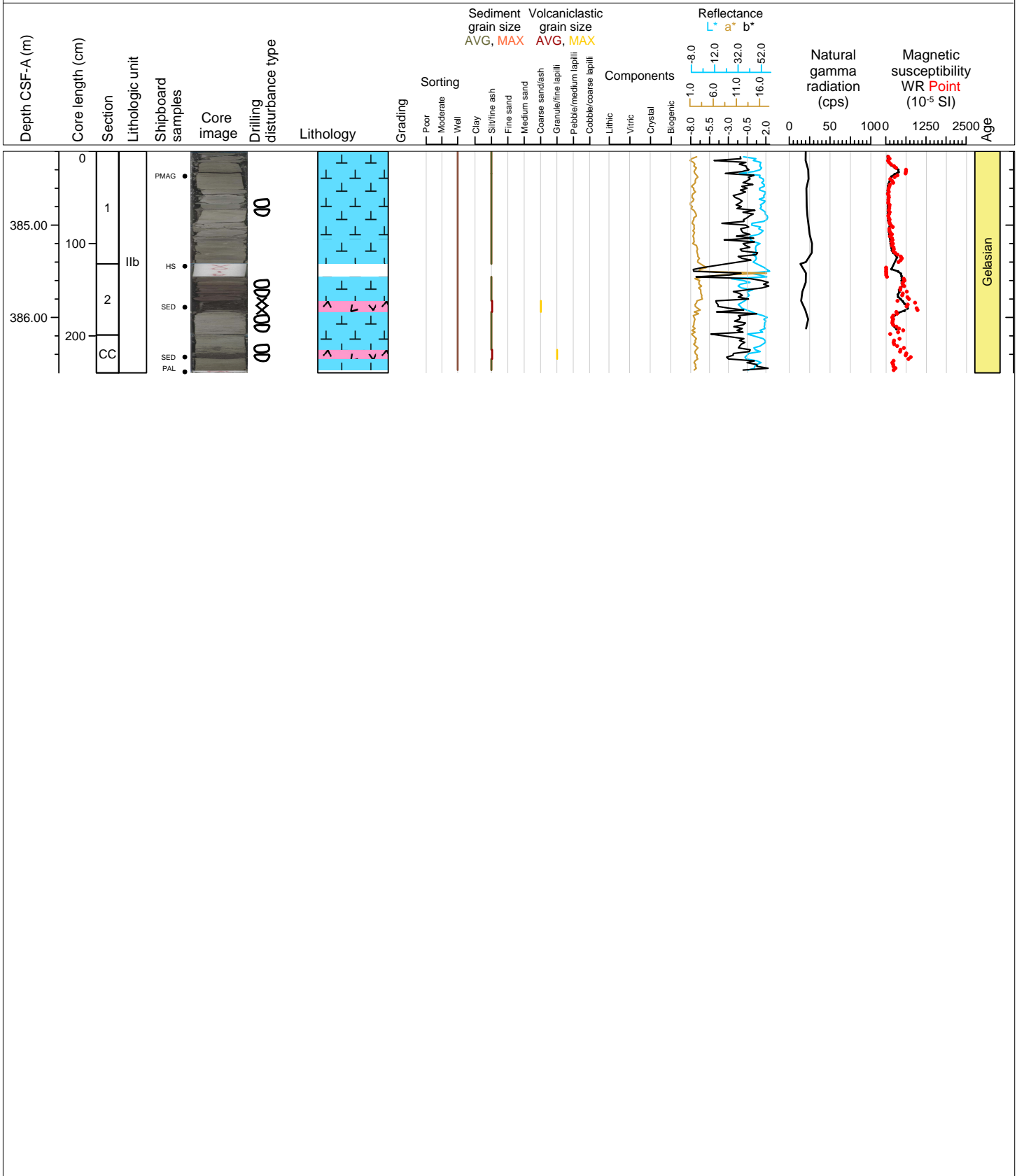
Hole 398-U1591B Core 42X, Interval 379.2-380.6 m (CSF-A)

Ooze, ooze with organic material, tuffaceous mud and ash.



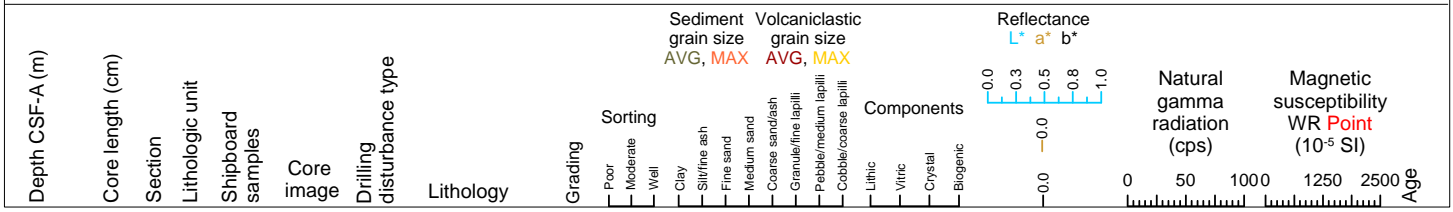
Hole 398-U1591B Core 43X, Interval 384.2-386.6 m (CSF-A)

Ooze and ash.



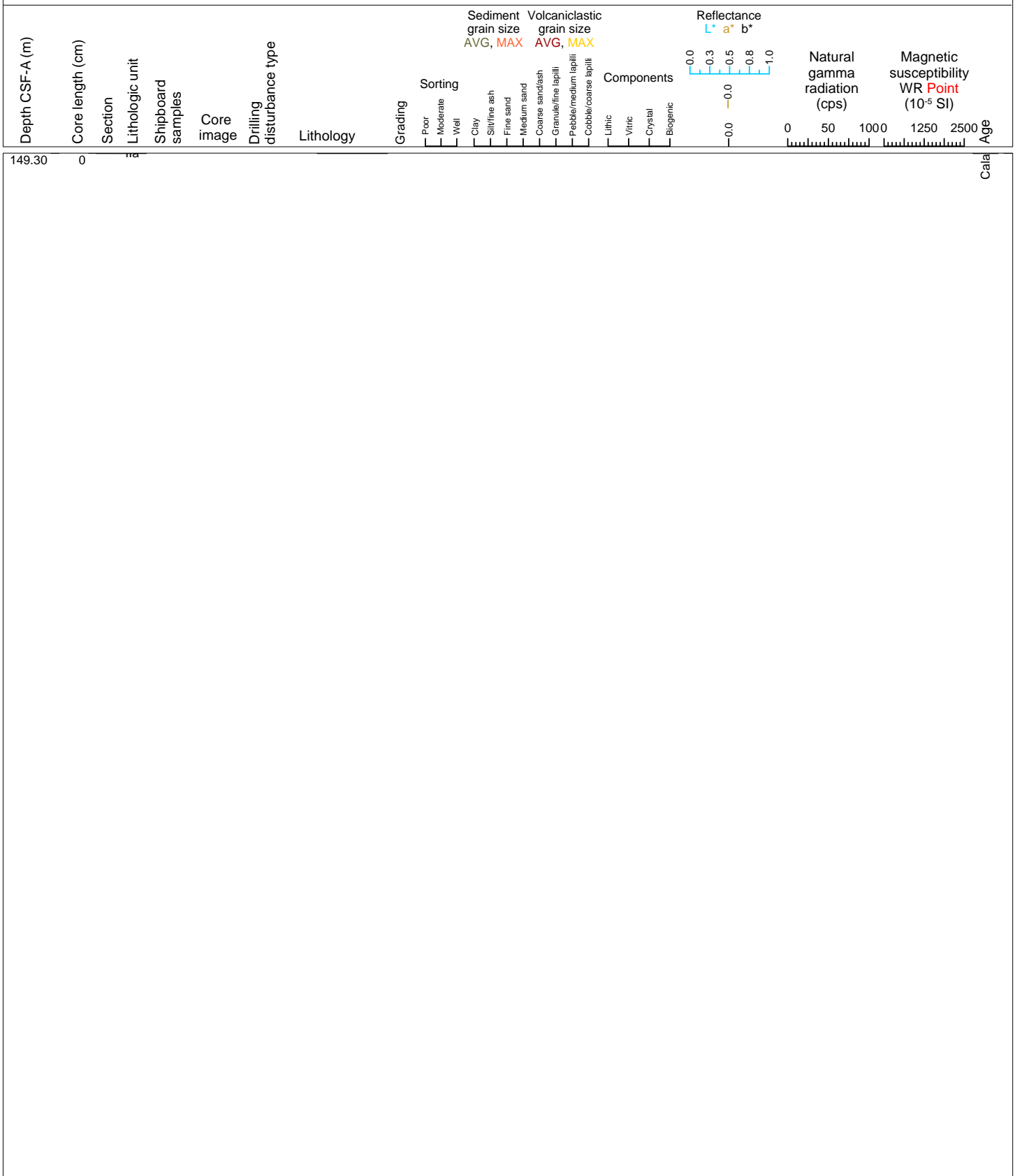
Hole 398-U1591C Core 11, Interval 0.0-0.0 m (CSF-A)

DRILLED INTERVAL 0.00-149.30 m



Hole 398-U1591C Core 2R, Interval 149.3-149.3 m (CSF-A)

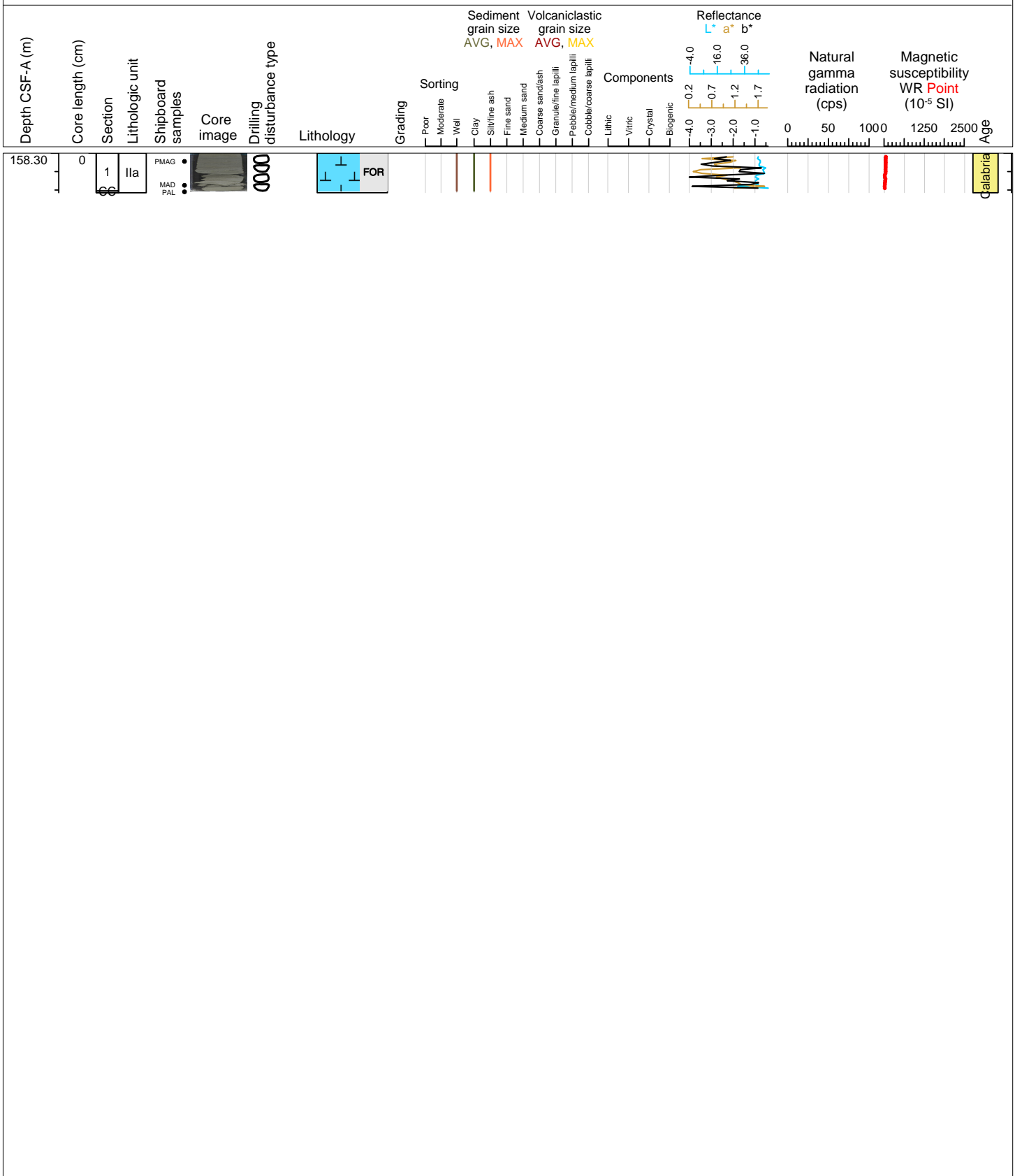
NO RECOVERY 149.3-158.3 m





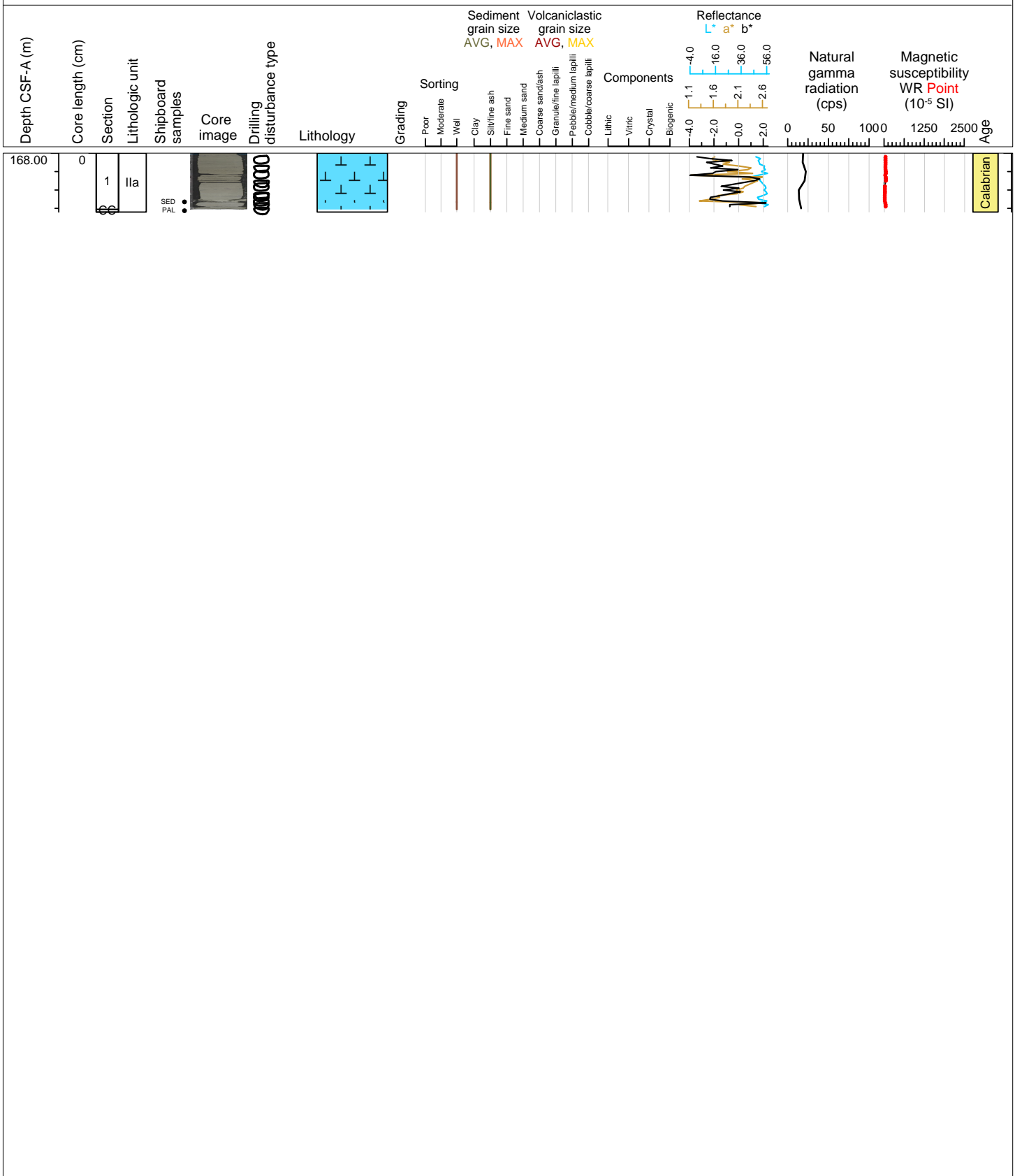
Hole 398-U1591C Core 3R, Interval 158.3-158.73 m (CSF-A)

Ooze with moderate bioturbation and shell fragments.



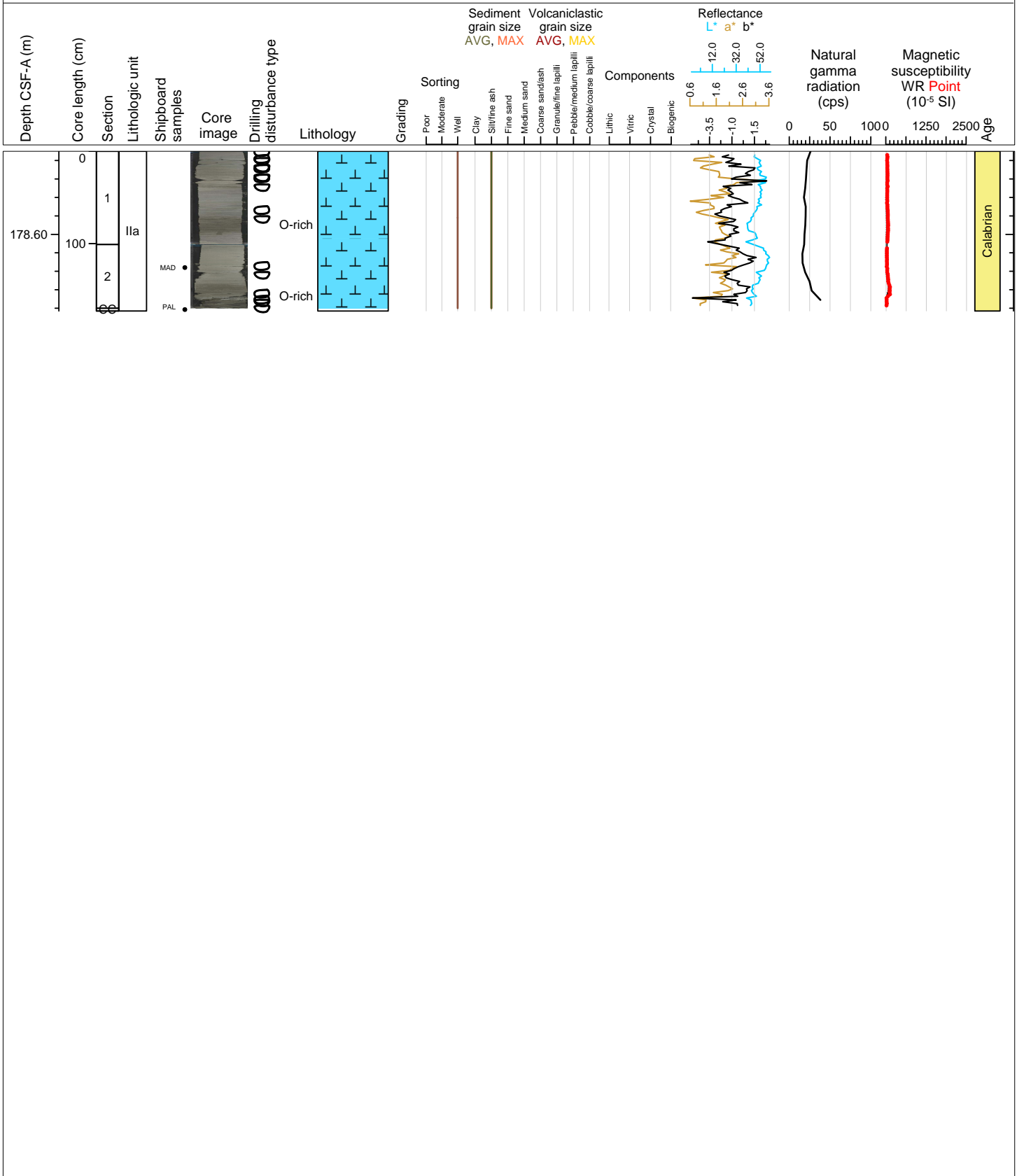
Hole 398-U1591C Core 4R, Interval 168.0-168.64 m (CSF-A)

Ooze with moderate bioturbation and a minor interval of tuffaceous mud.



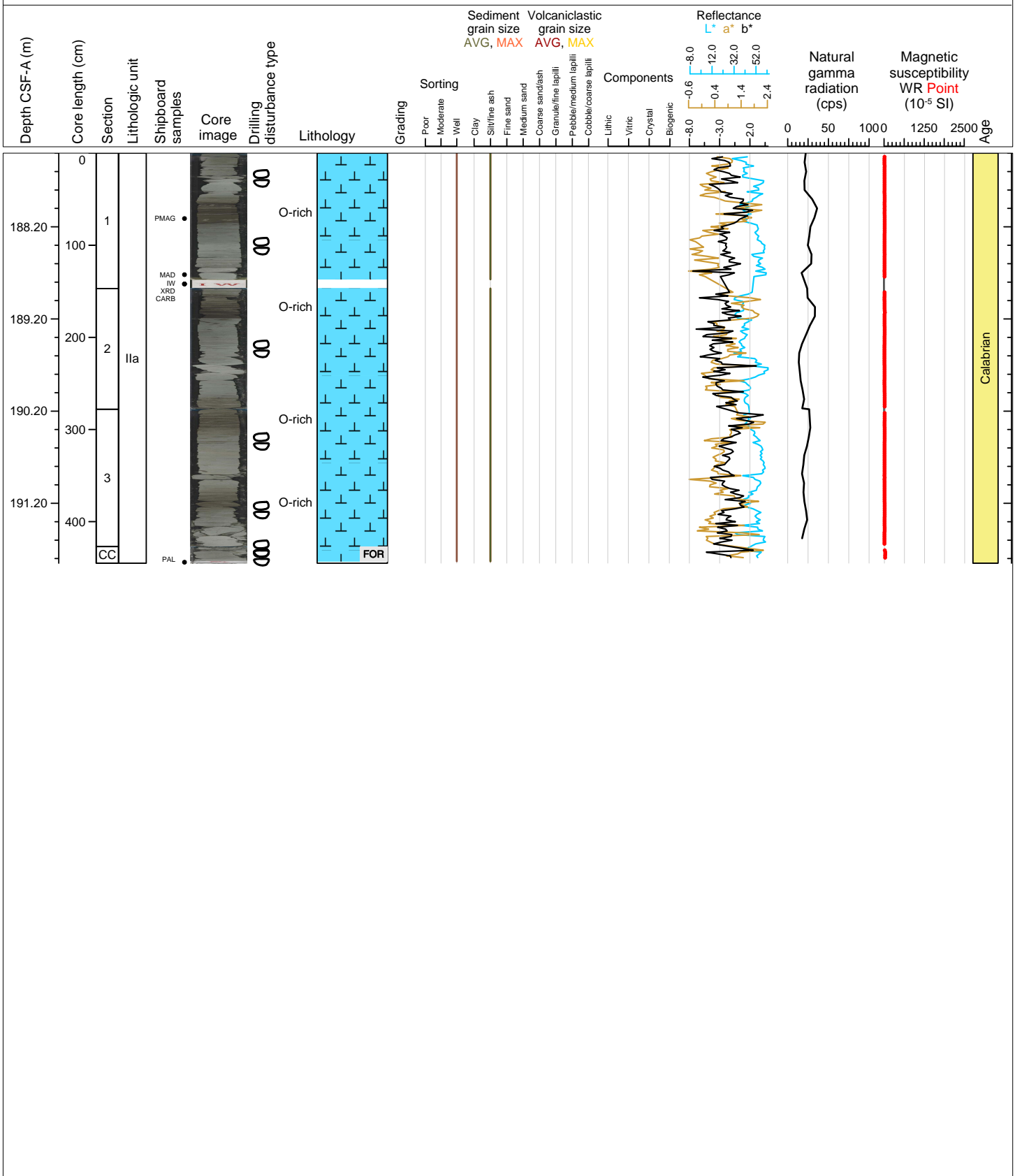
Hole 398-U1591C Core 5R, Interval 177.7-179.43 m (CSF-A)

Ooze and organic rich ooze.



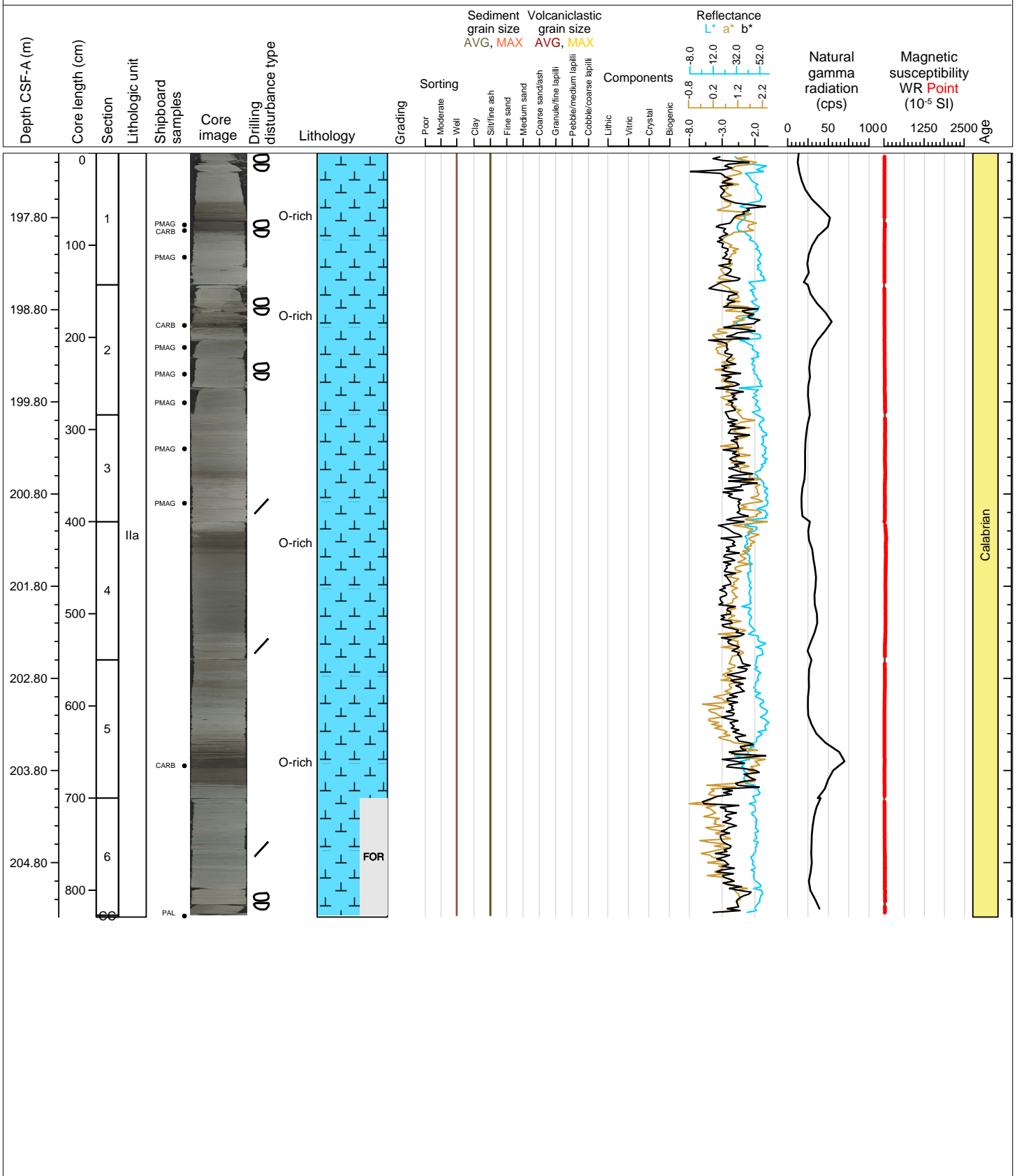
Hole 398-U1591C Core 6R, Interval 187.4-191.85 m (CSF-A)

Moderately to highly bioturbated ooze and organic rich ooze.



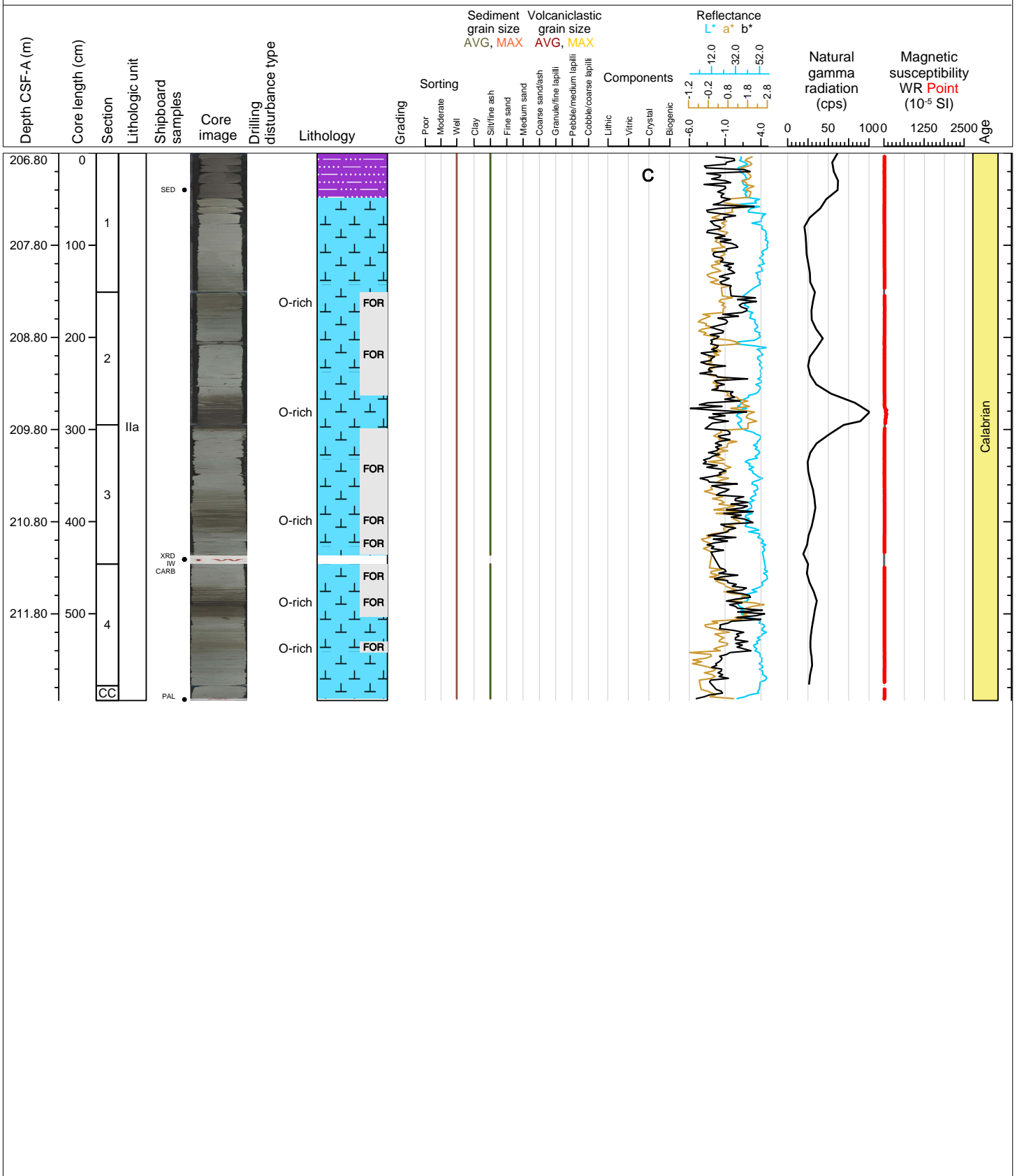
Hole 398-U1591C Core 7R, Interval 197.1-205.39 m (CSF-A)

Bioturbated ooze and organic rich ooze.



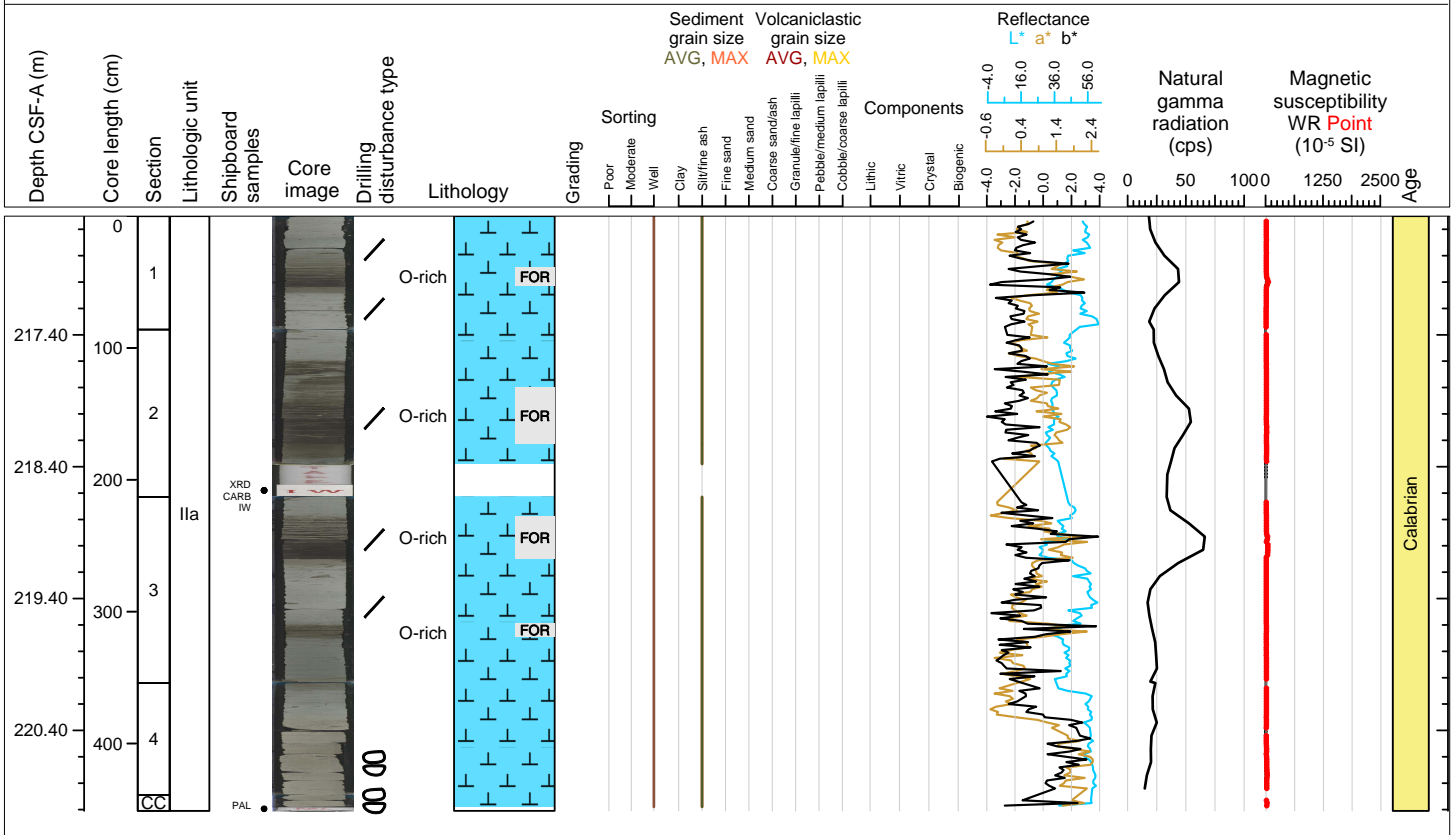
Hole 398-U1591C Core 8R, Interval 206.8-212.74 m (CSF-A)

Ooze, organic rich ooze, and tuffaceous mud.



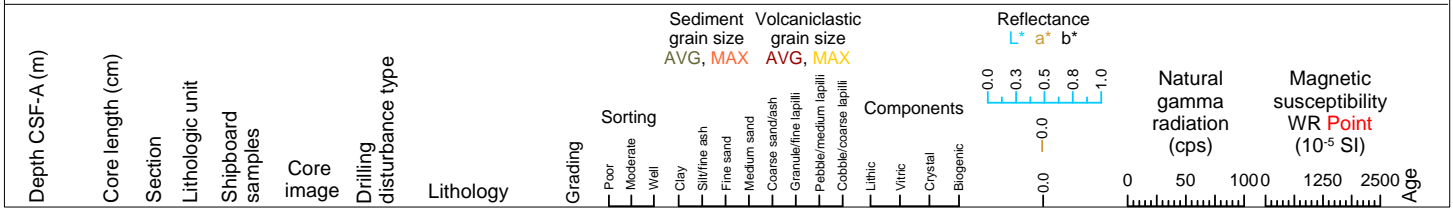
Hole 398-U1591C Core 9R, Interval 216.5-221.01 m (CSF-A)

Ooze and organic rich ooze.



Hole 398-U1591C Core 10R, Interval 226.2-226.2 m (CSF-A)

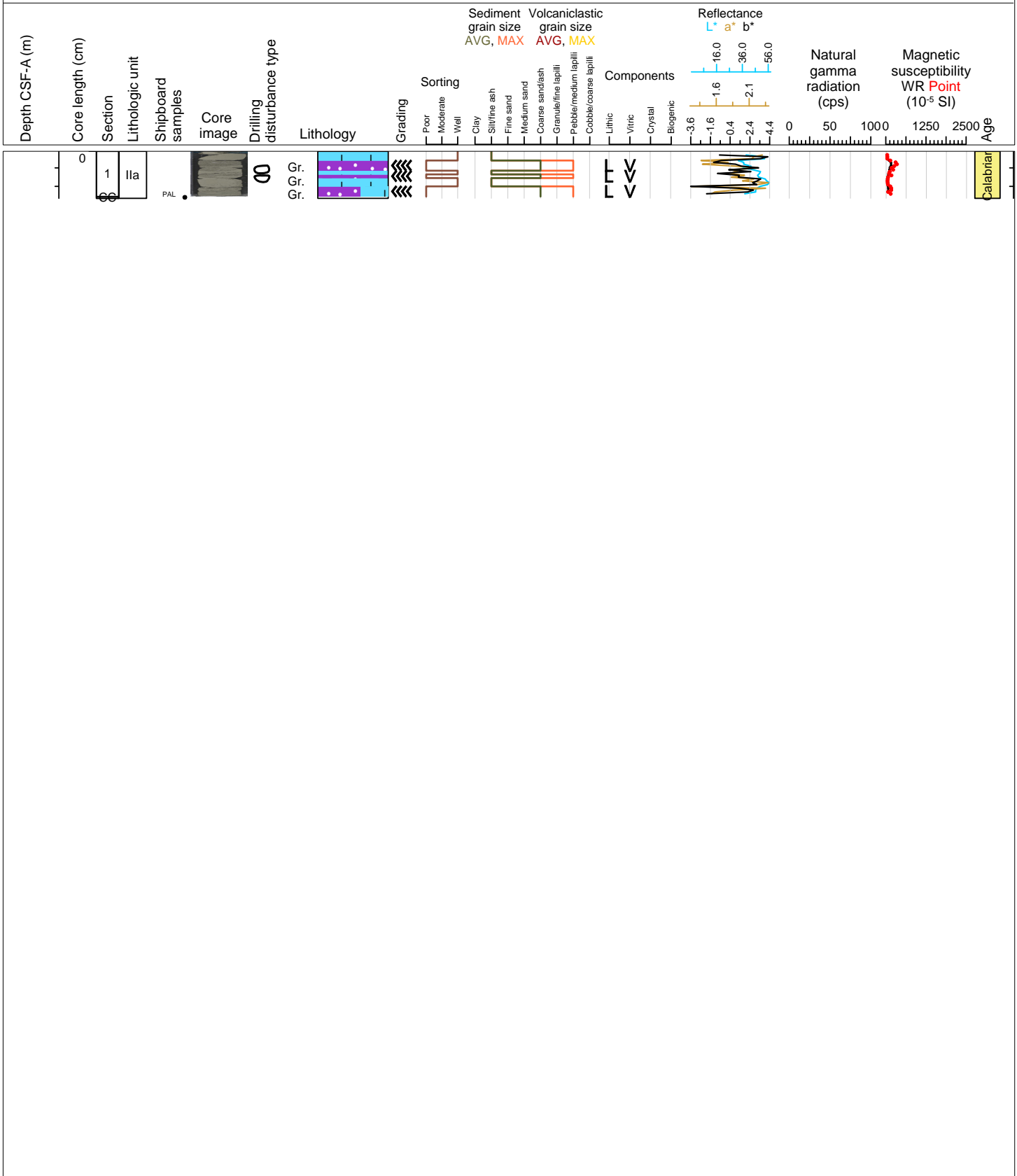
NO RECOVERY 226.2-235.9 m





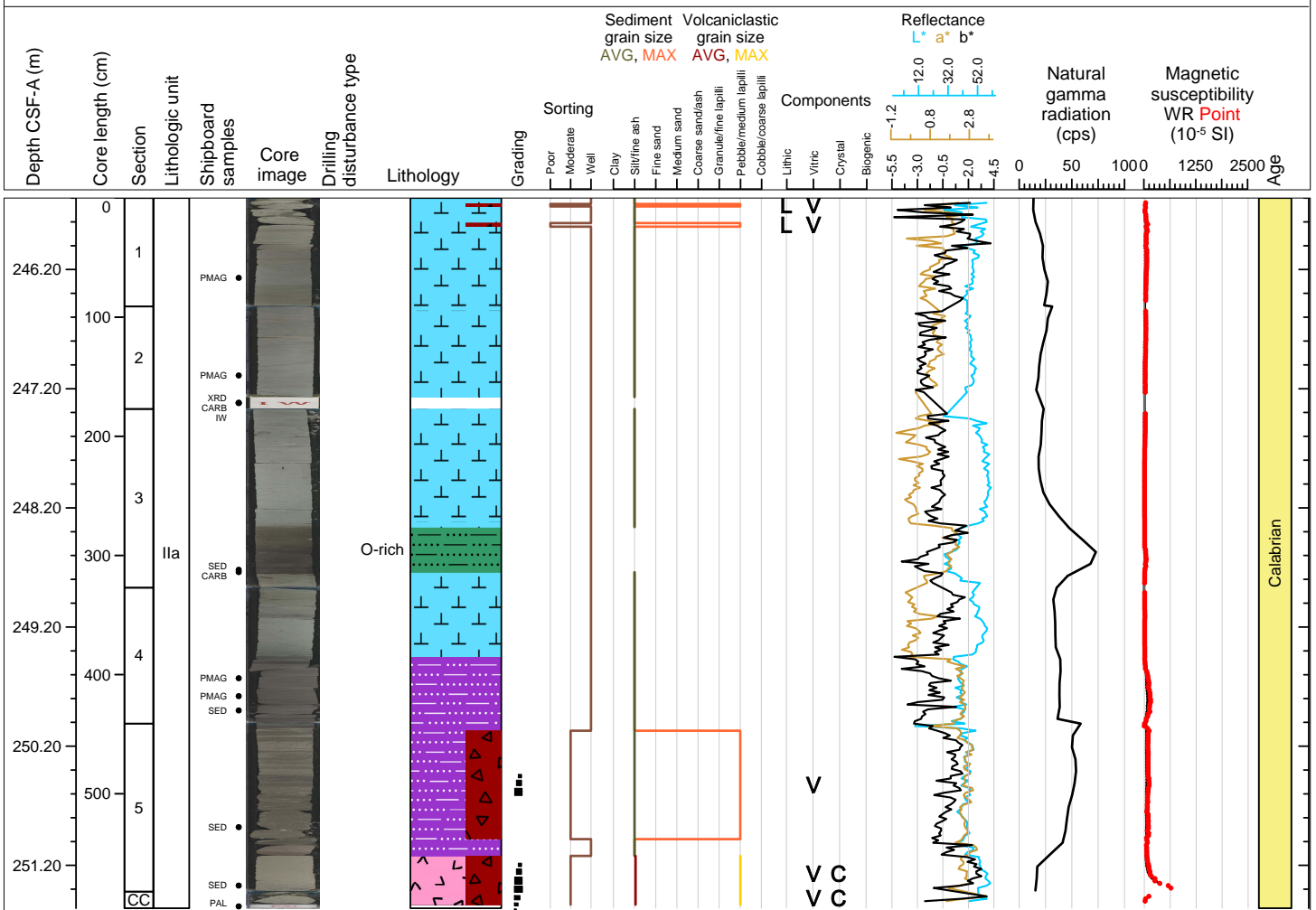
Hole 398-U1591C Core 11R, Interval 235.9-236.41 m (CSF-A)

Ooze and tuffaceous sand.



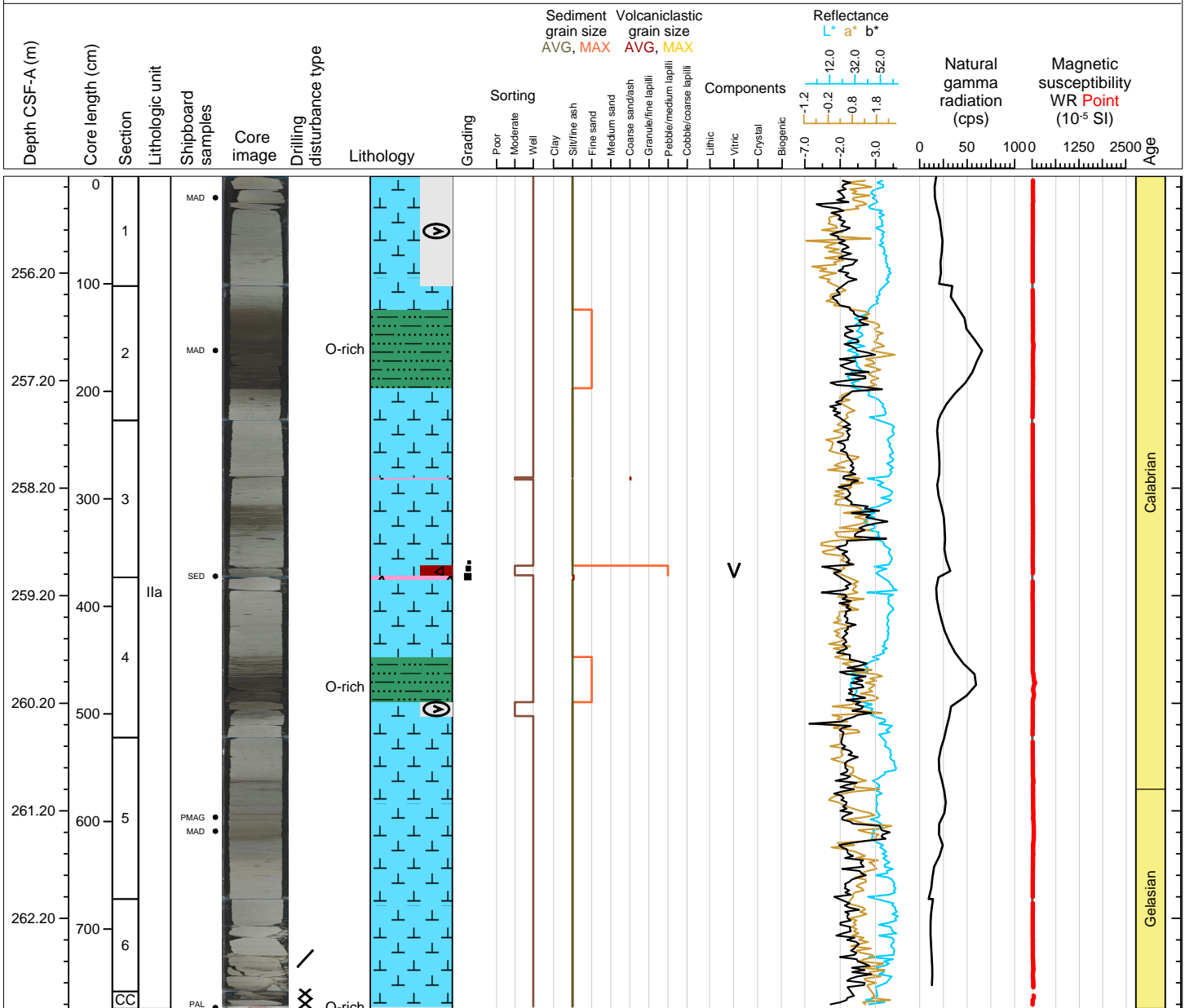
Hole 398-U1591C Core 12R, Interval 245.6-251.56 m (CSF-A)

Ooze, organic rich mud, tuffaceous mud and ash with lapilli.



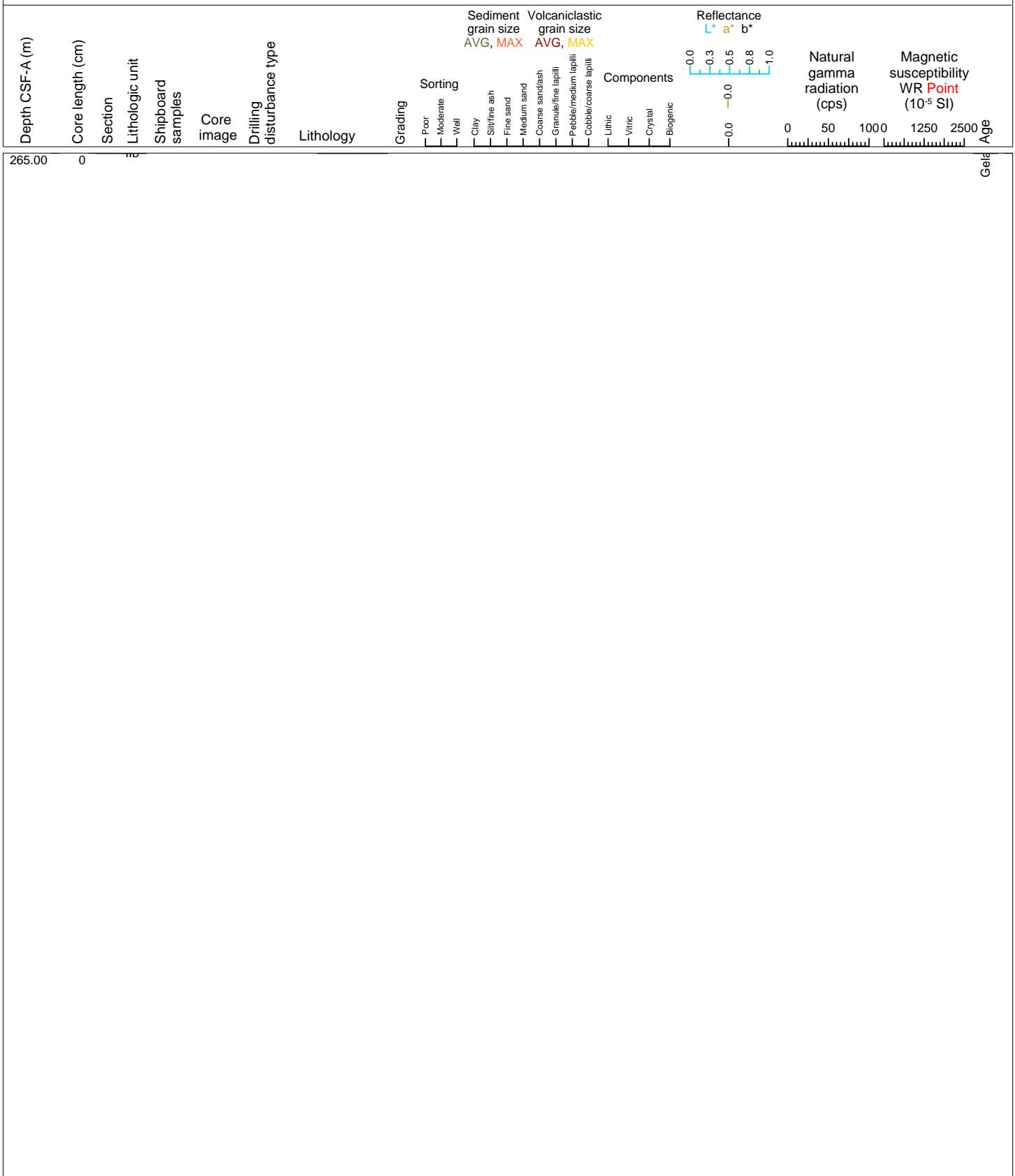
Hole 398-U1591C Core 13R, Interval 255.3-263.04 m (CSF-A)

Ooze, organic rich mud, ash, and mud.



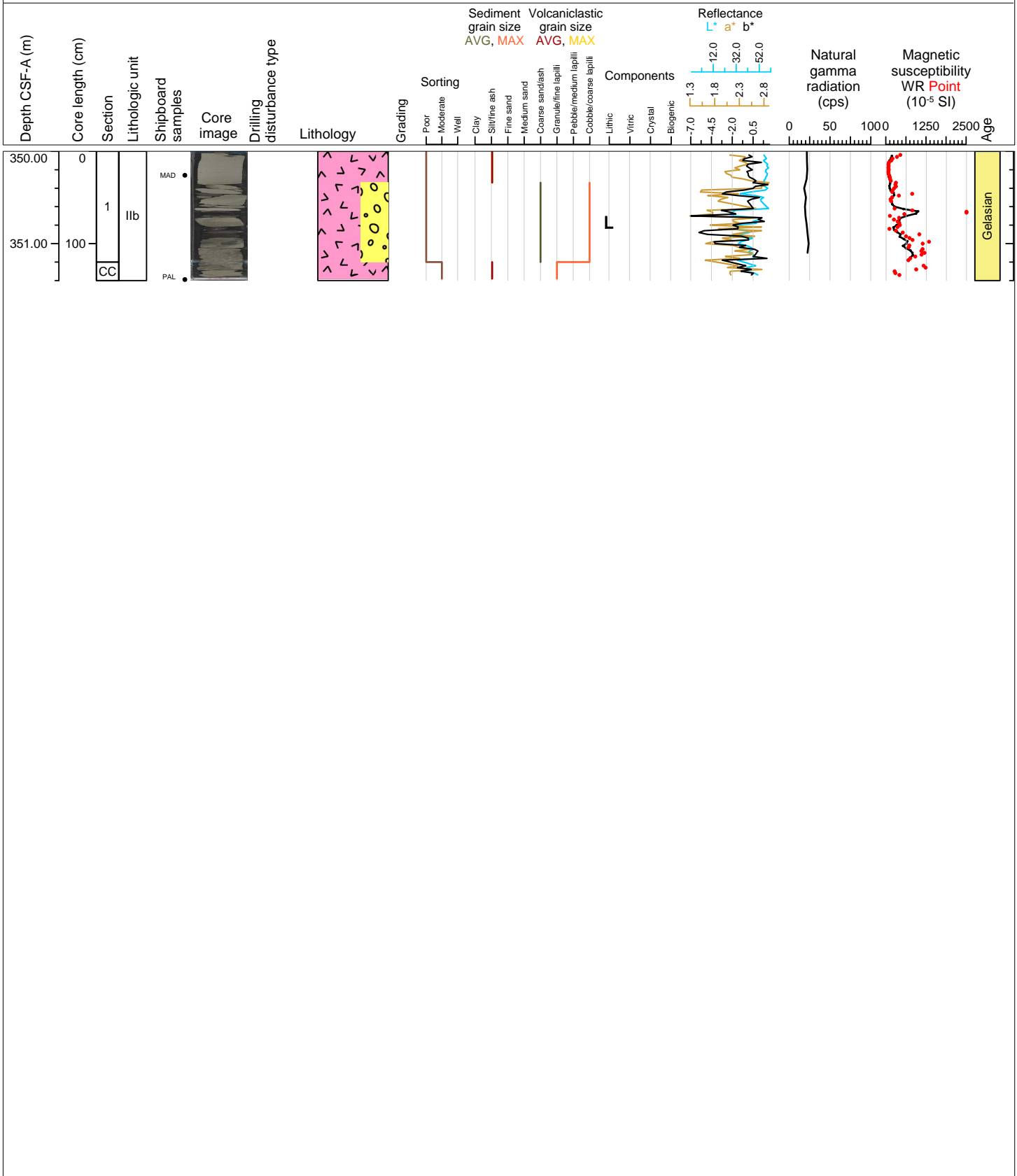
Hole 398-U1591C Core 141, Interval 265.0-265.0 m (CSF-A)

DRILLED INTERVAL 265.00-350.00 m



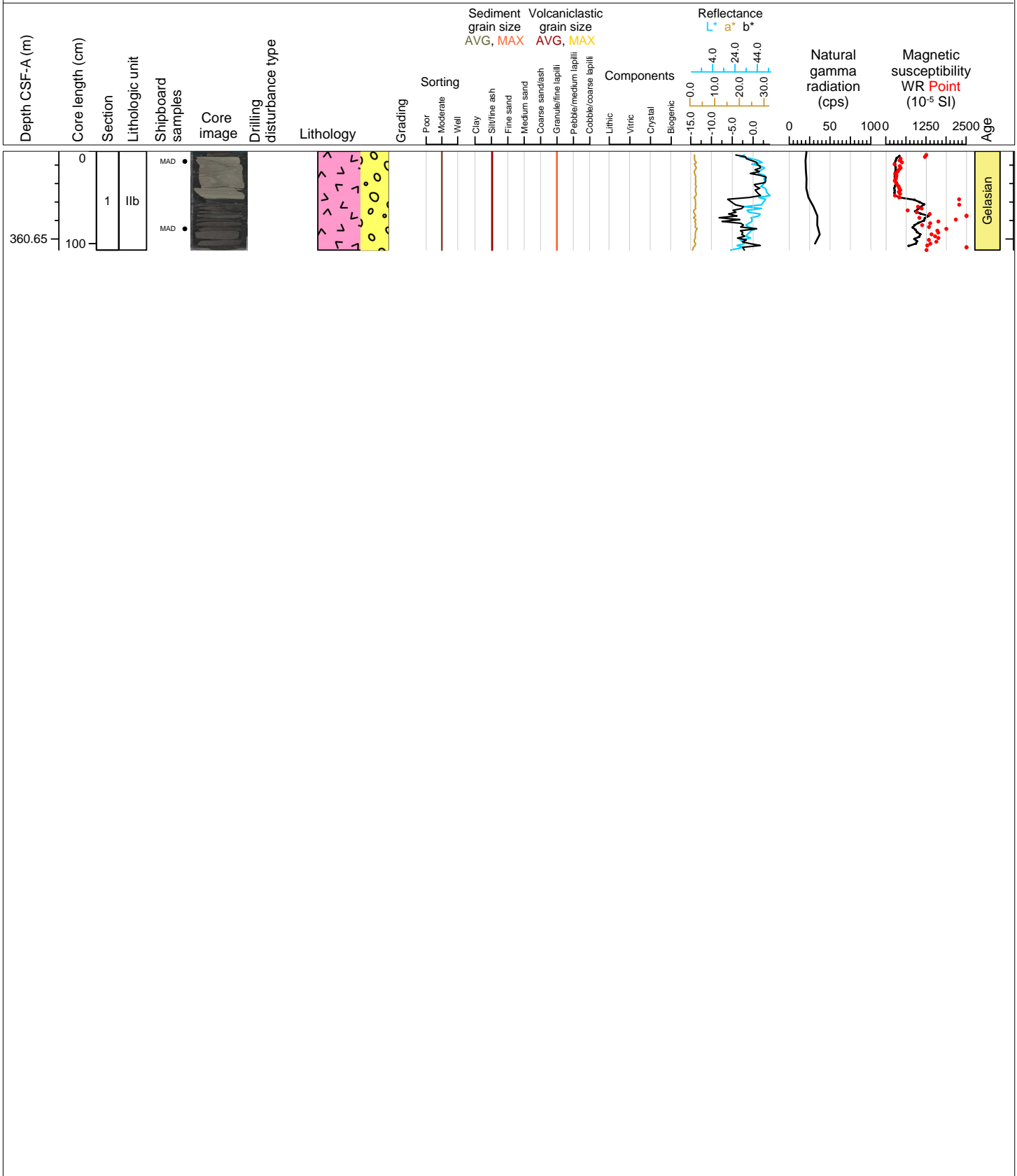
Hole 398-U1591C Core 15R, Interval 350.0-351.4 m (CSF-A)

Ash and ash with cobbles.



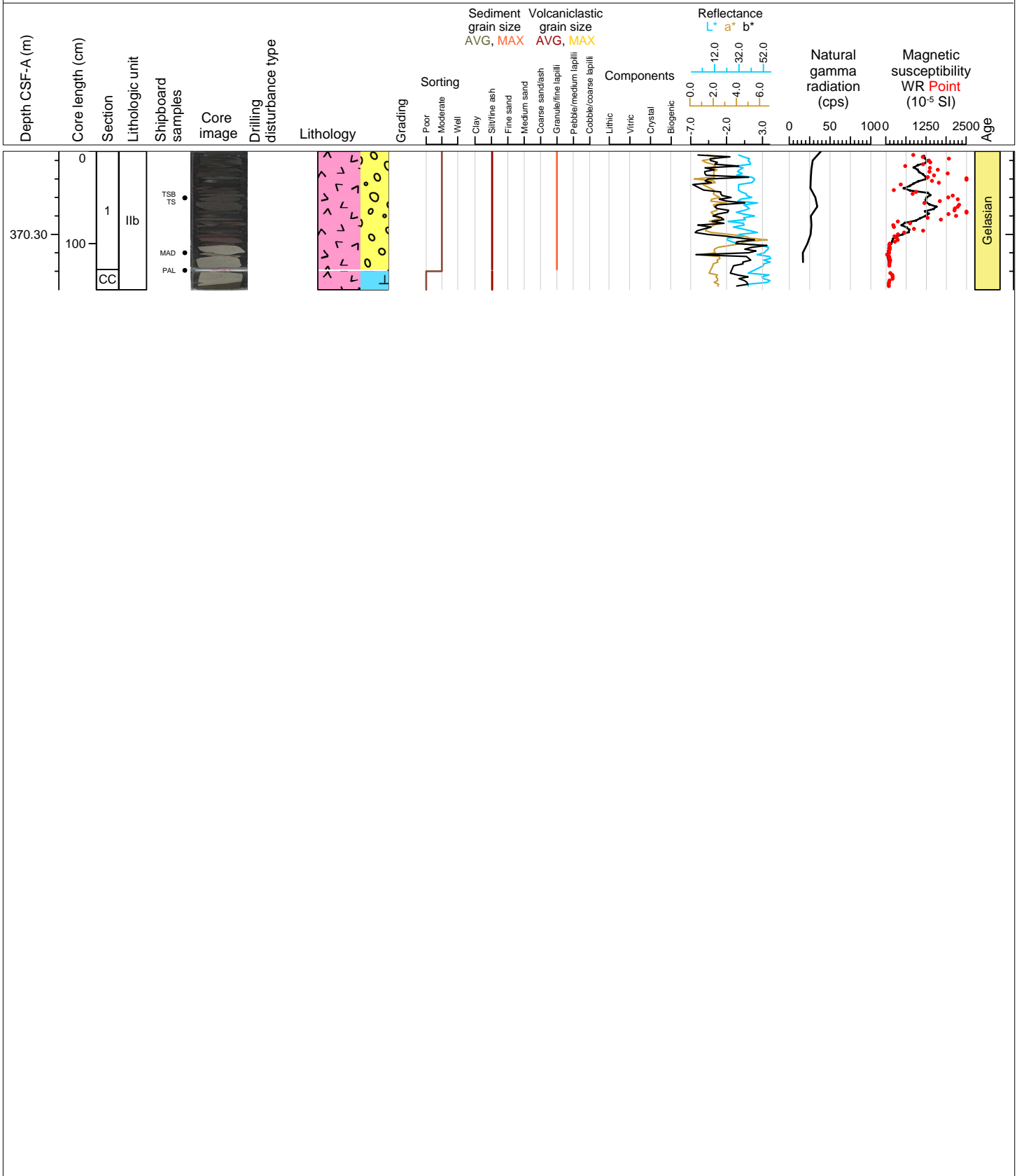
Hole 398-U1591C Core 16R, Interval 359.7-360.77 m (CSF-A)

Lithic, crystal ash with cobbles.



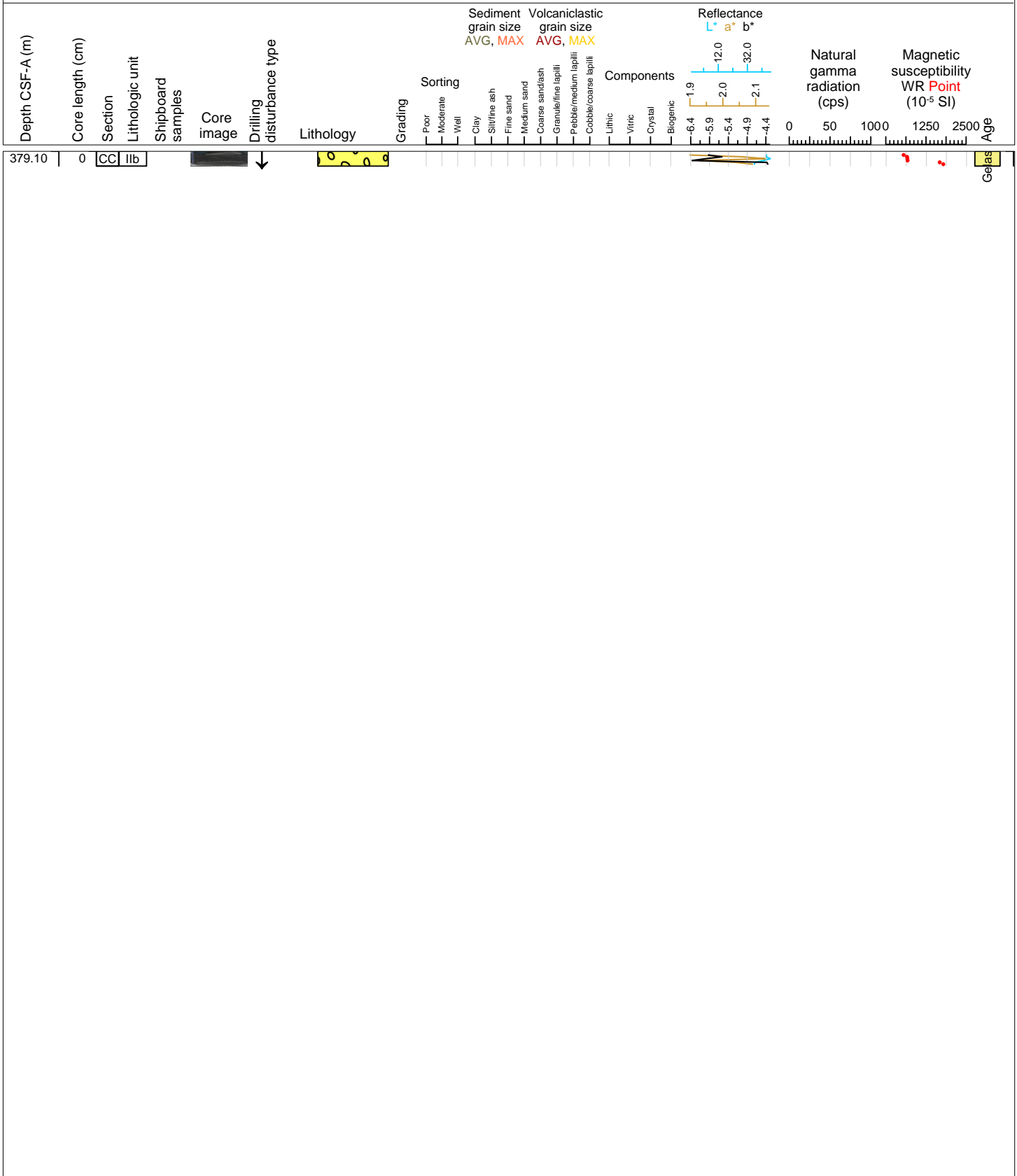
Hole 398-U1591C Core 17R, Interval 369.4-370.9 m (CSF-A)

Lithic, crystal ash with cobbles and ash with ooze.



Hole 398-U1591C Core 18R, Interval 379.1-379.26 m (CSF-A)

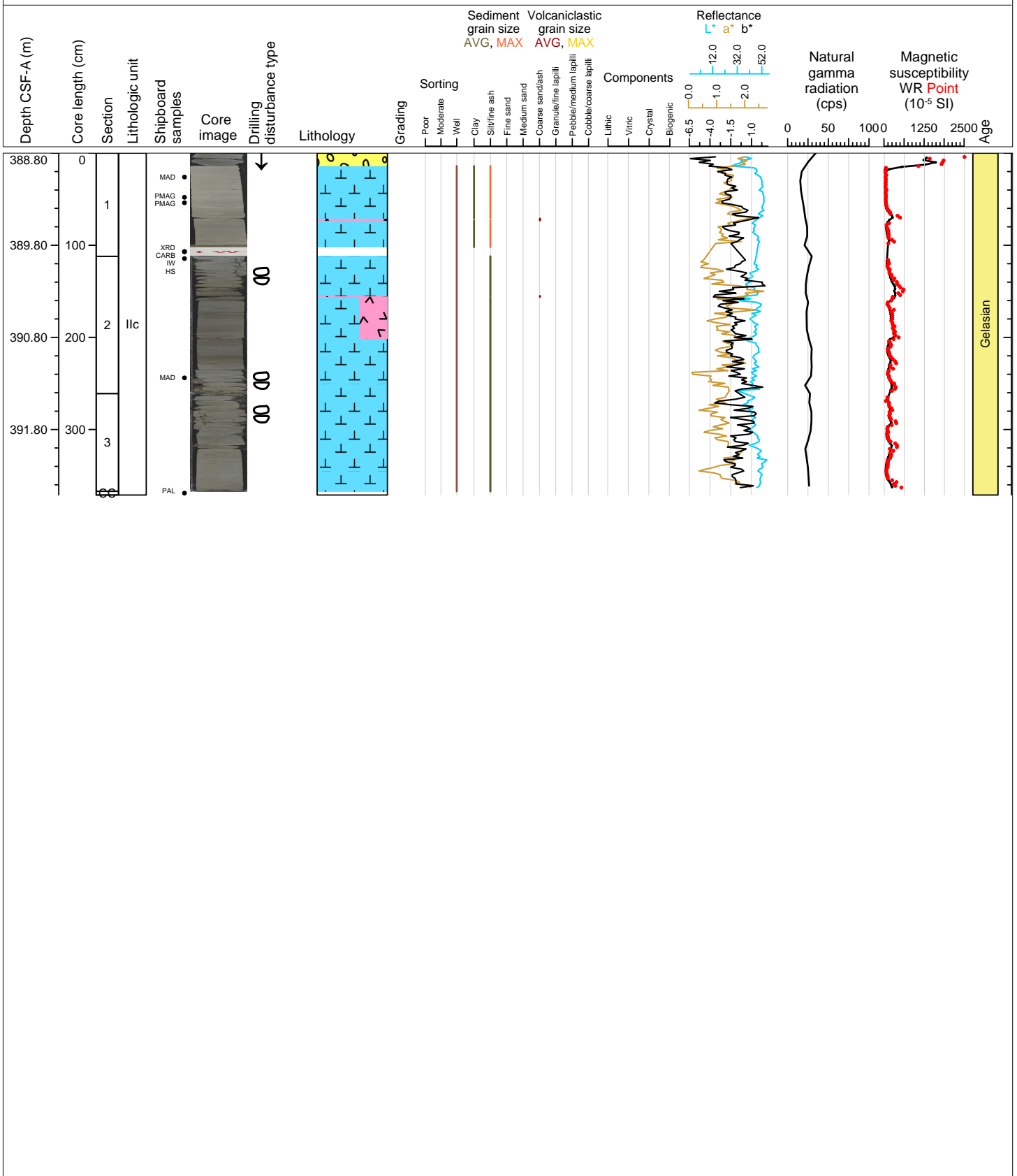
Cobbles.





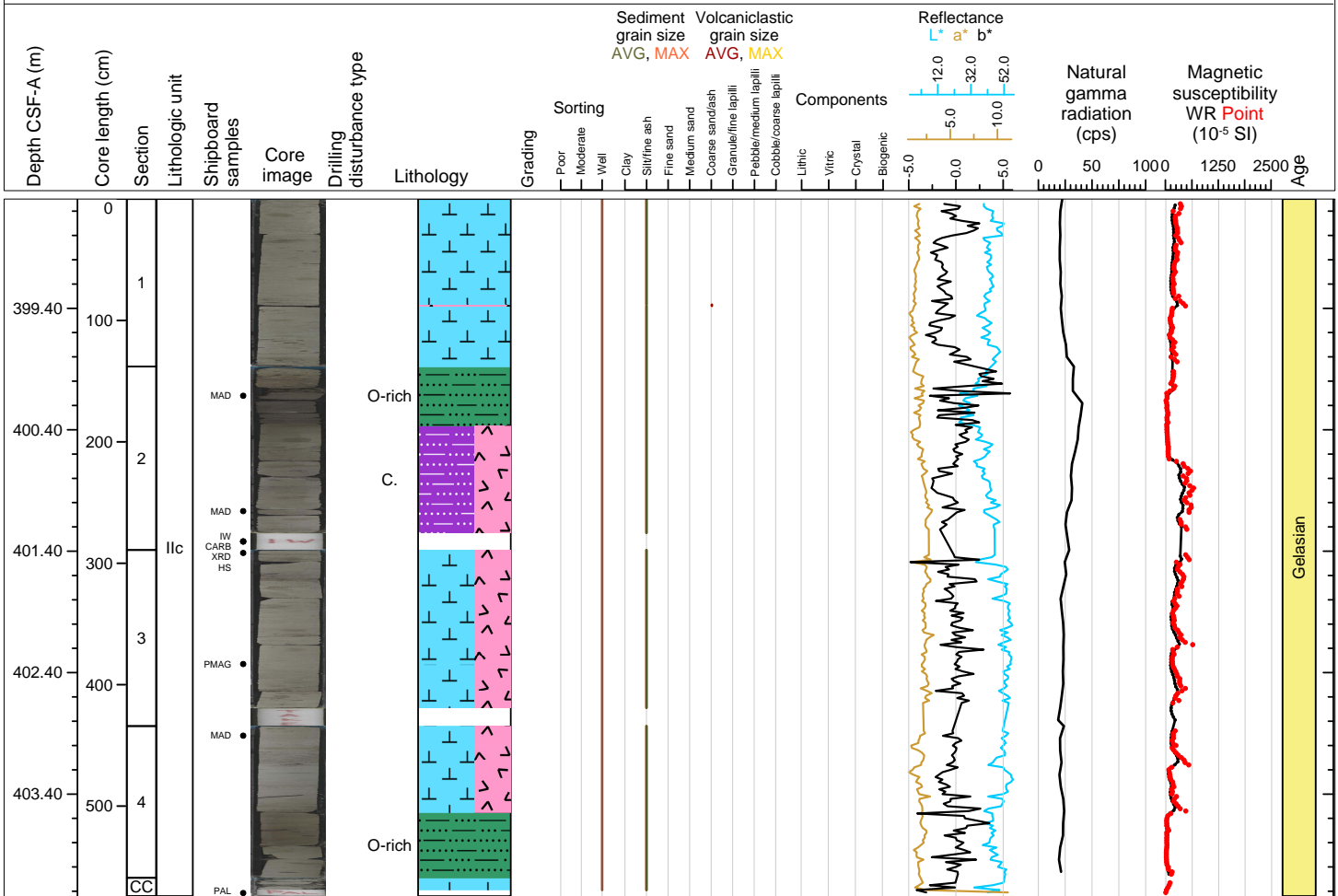
Hole 398-U1591C Core 19R, Interval 388.8-392.51 m (CSF-A)

Cobbles, ooze, lithic-crystal ash, and ooze with ash.



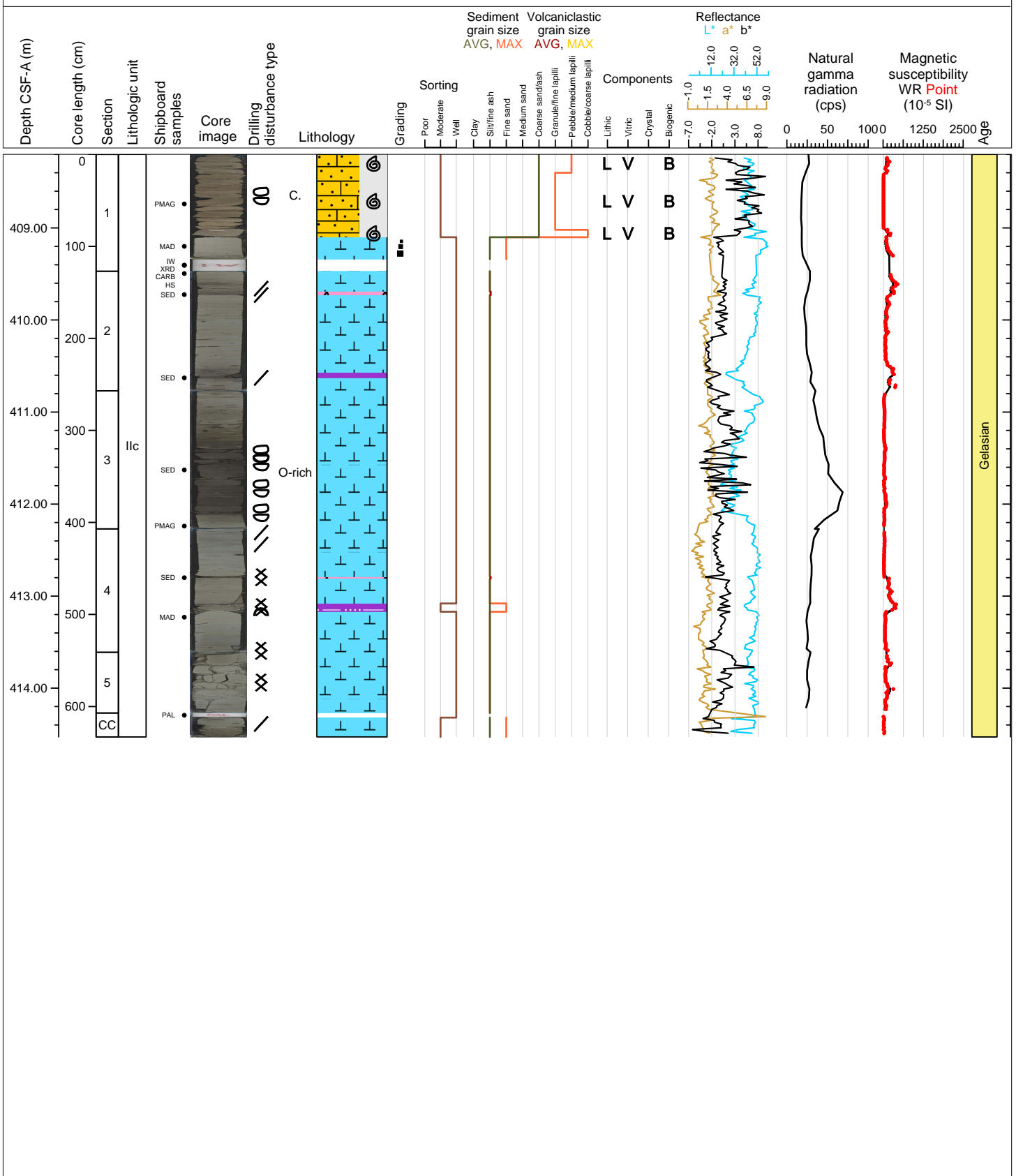
Hole 398-U1591C Core 20R, Interval 398.5-404.24 m (CSF-A)

Ooze, lithic-crystal ash, organic rich mud, tuffaceous mud with ash and ooze with ash.



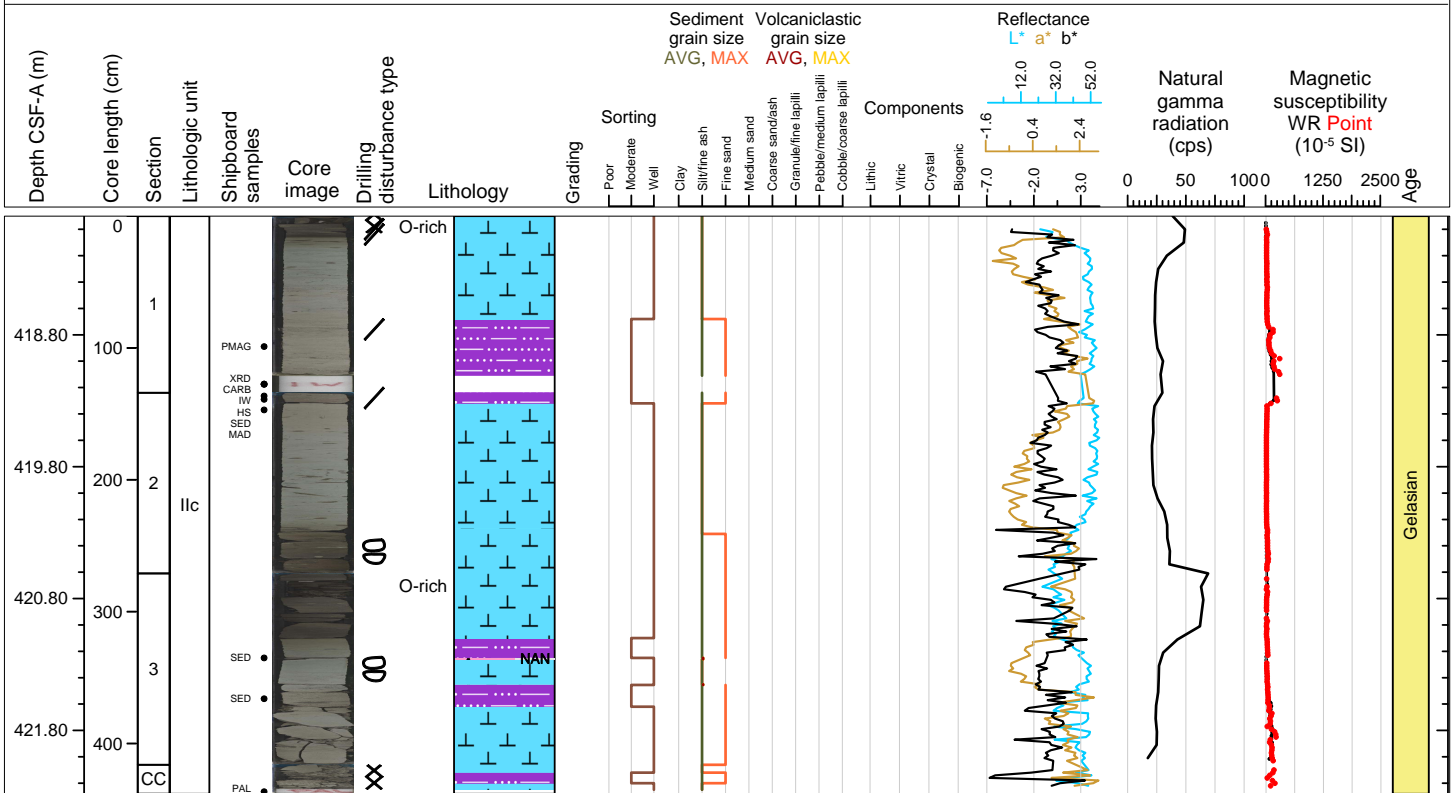
Hole 398-U1591C Core 21R, Interval 408.2-414.53 m (CSF-A)

Calcareous sandstone with shells, ooze, crystal ash, tuffaceous mud and organic rich ooze.



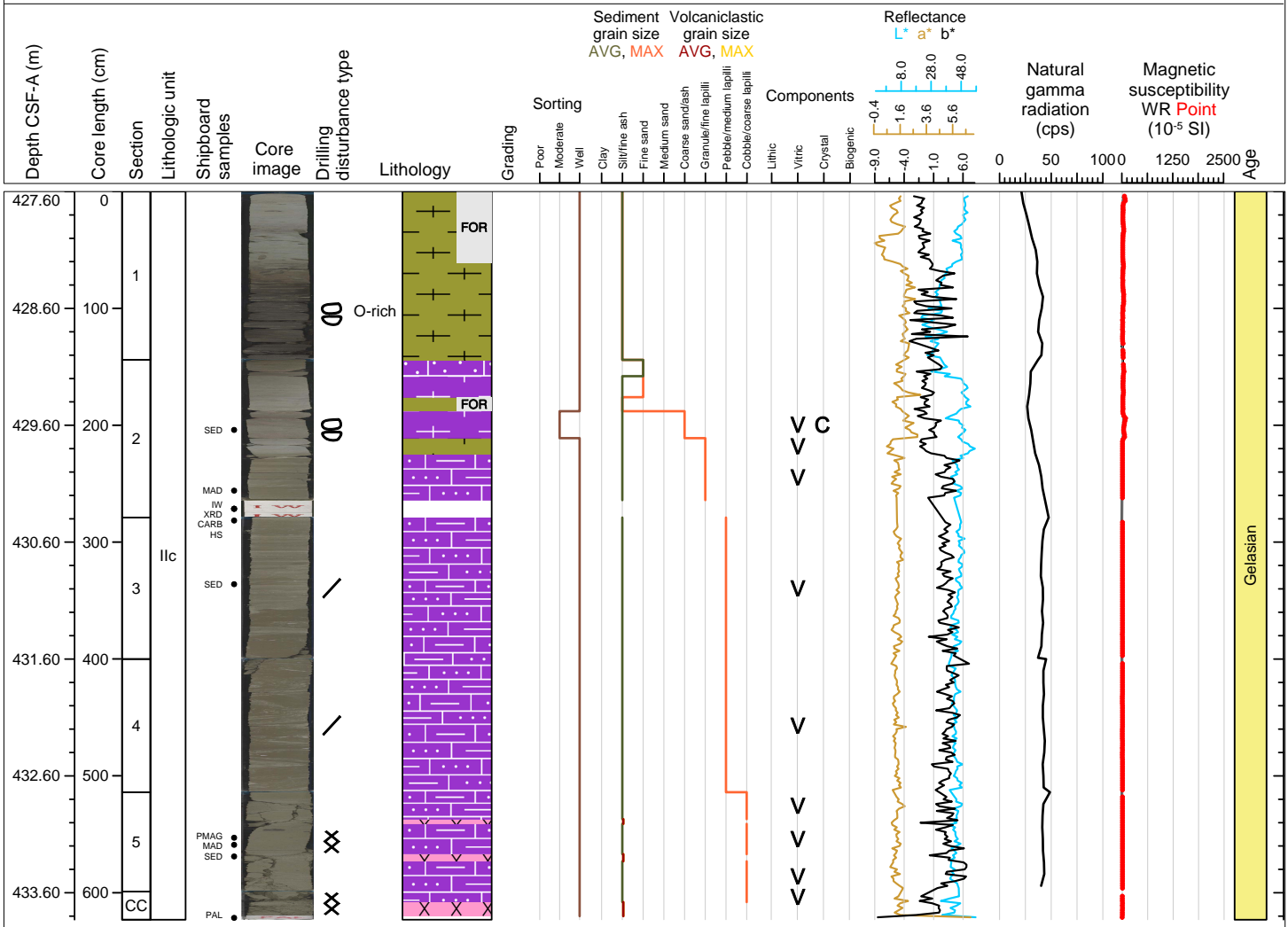
Hole 398-U1591C Core 22R, Interval 417.9-422.28 m (CSF-A)

Organic rich ooze, ooze, tuffaceous mud, and ash.



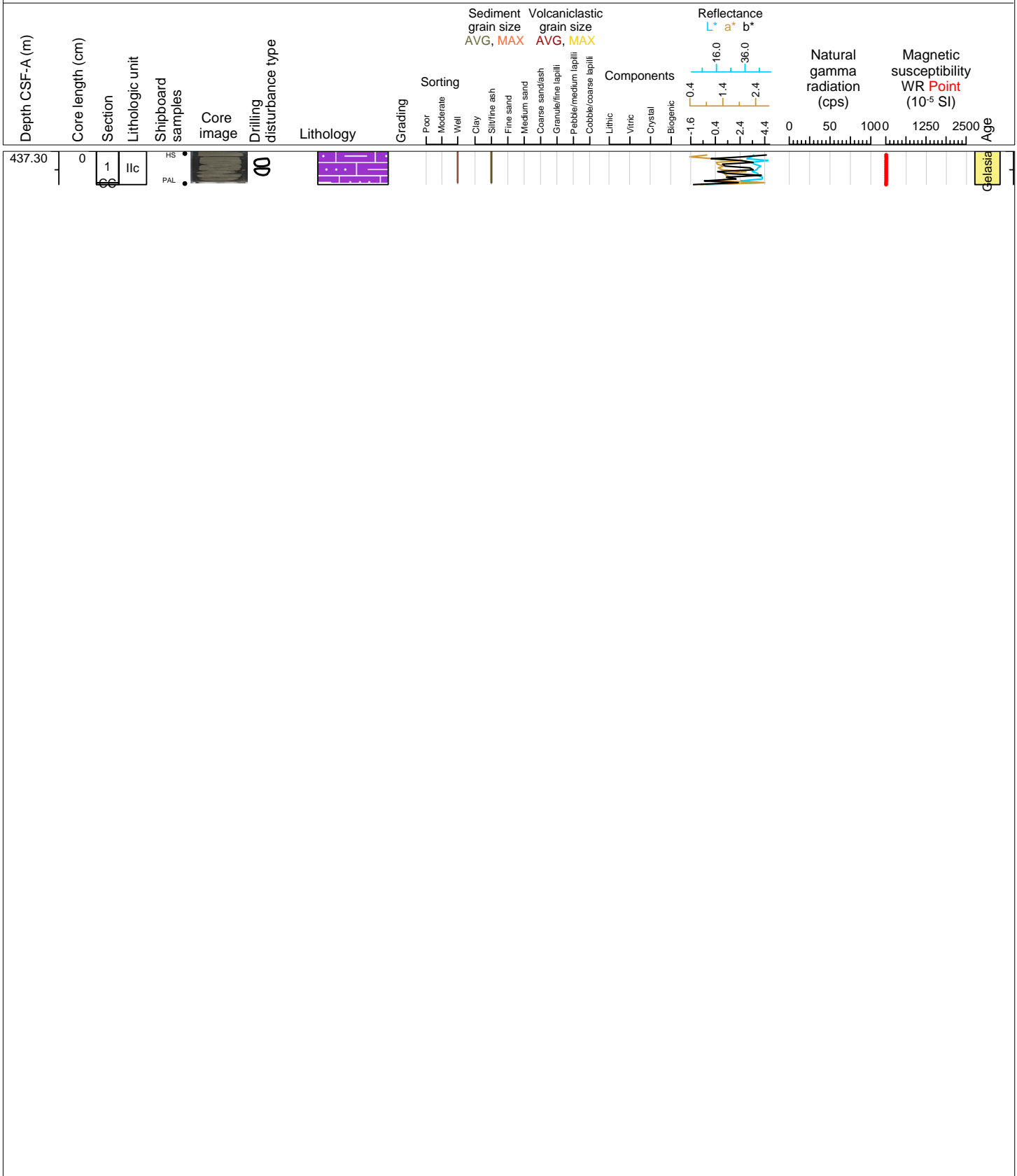
Hole 398-U1591C Core 23R, Interval 427.6-433.83 m (CSF-A)

Marl, organic rich marl, tuffaceous sandstone, tuffaceous marl, and tuff.



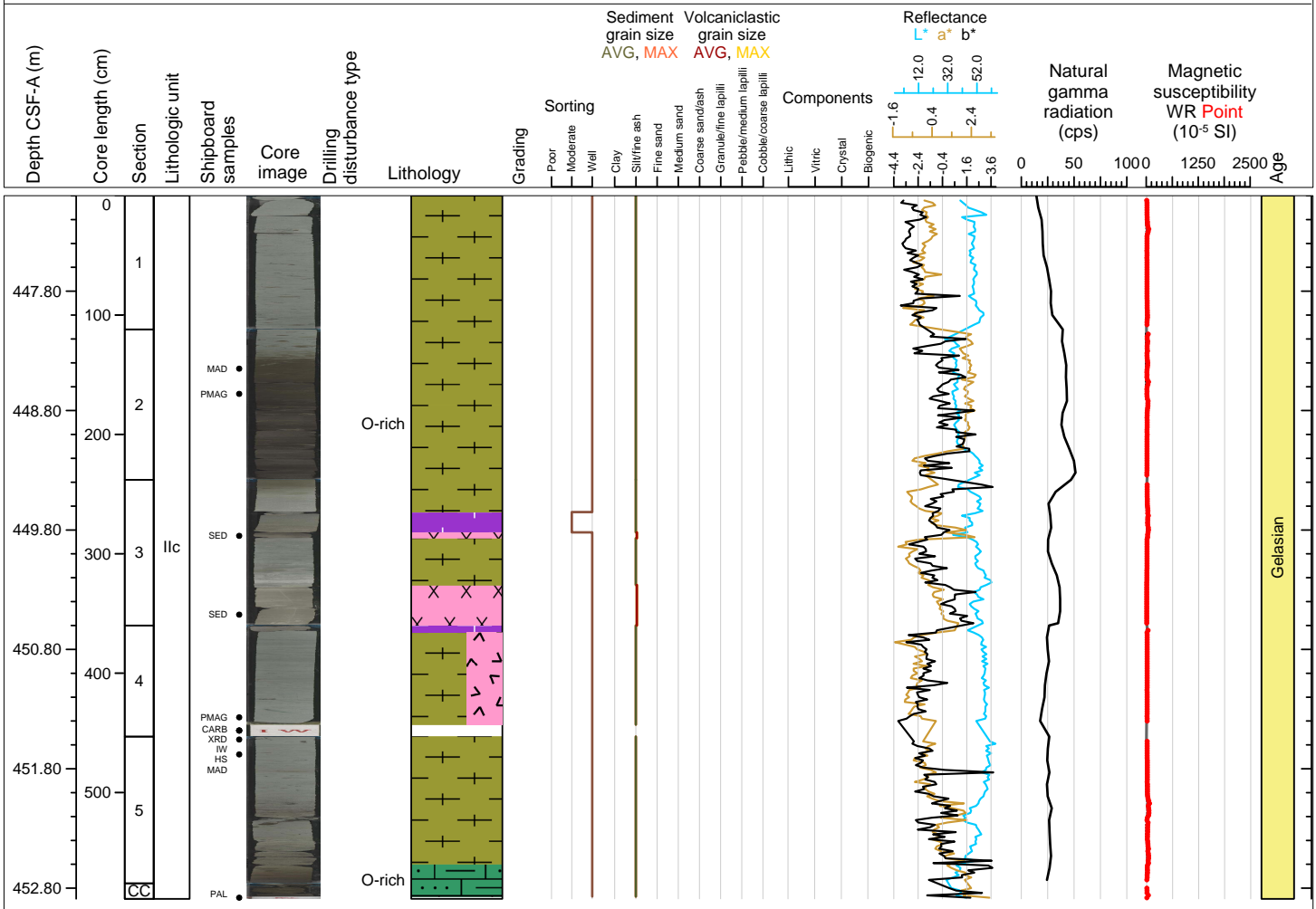
Hole 398-U1591C Core 24R, Interval 437.3-437.66 m (CSF-A)

Tuffaceous mudstone.



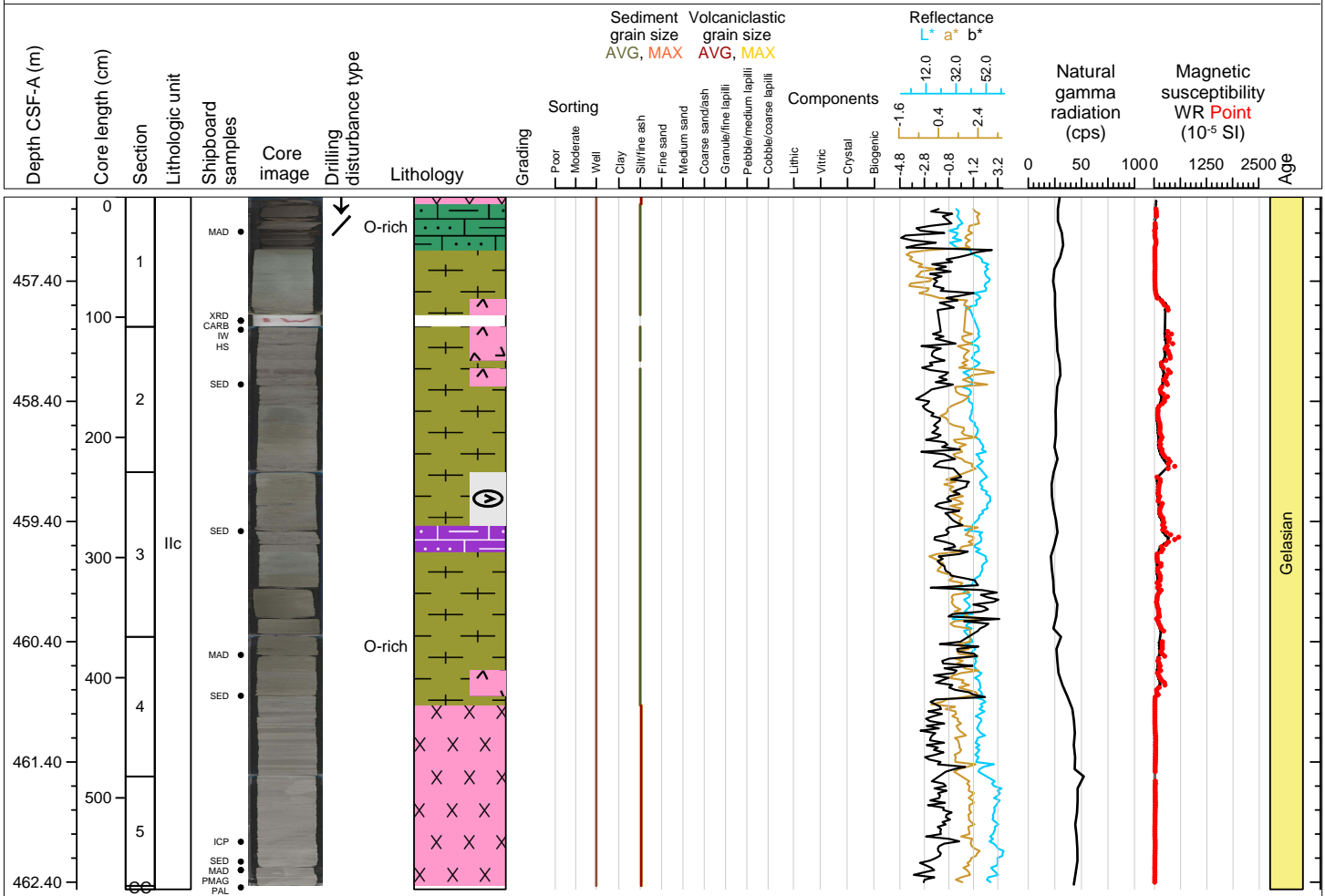
Hole 398-U1591C Core 25R, Interval 447.0-452.89 m (CSF-A)

Marl, organic rich marl, tuffaceous marl and tuff.



Hole 398-U1591C Core 26R, Interval 456.7-462.46 m (CSF-A)

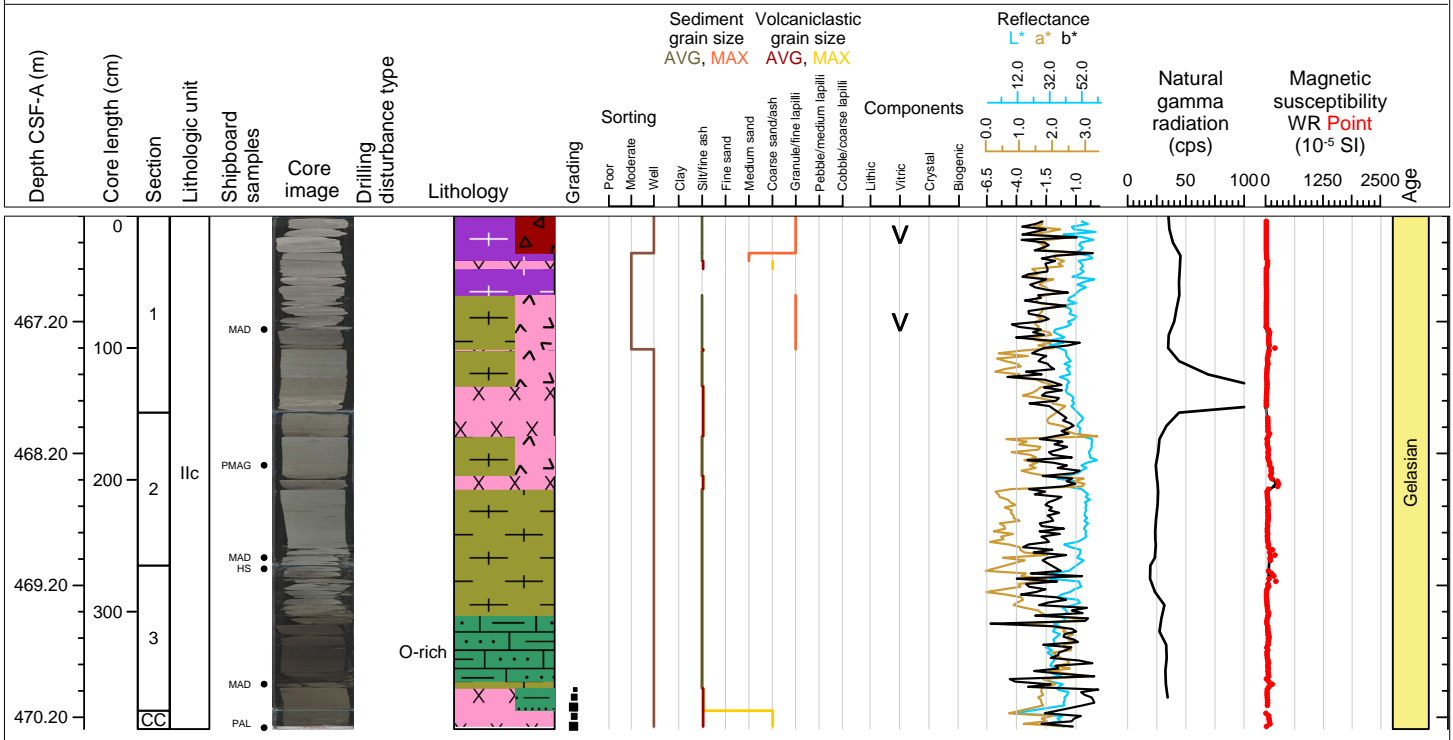
Tuff, organic rich mudstone, marl, organic rich marl and tuffaceous mudstone.





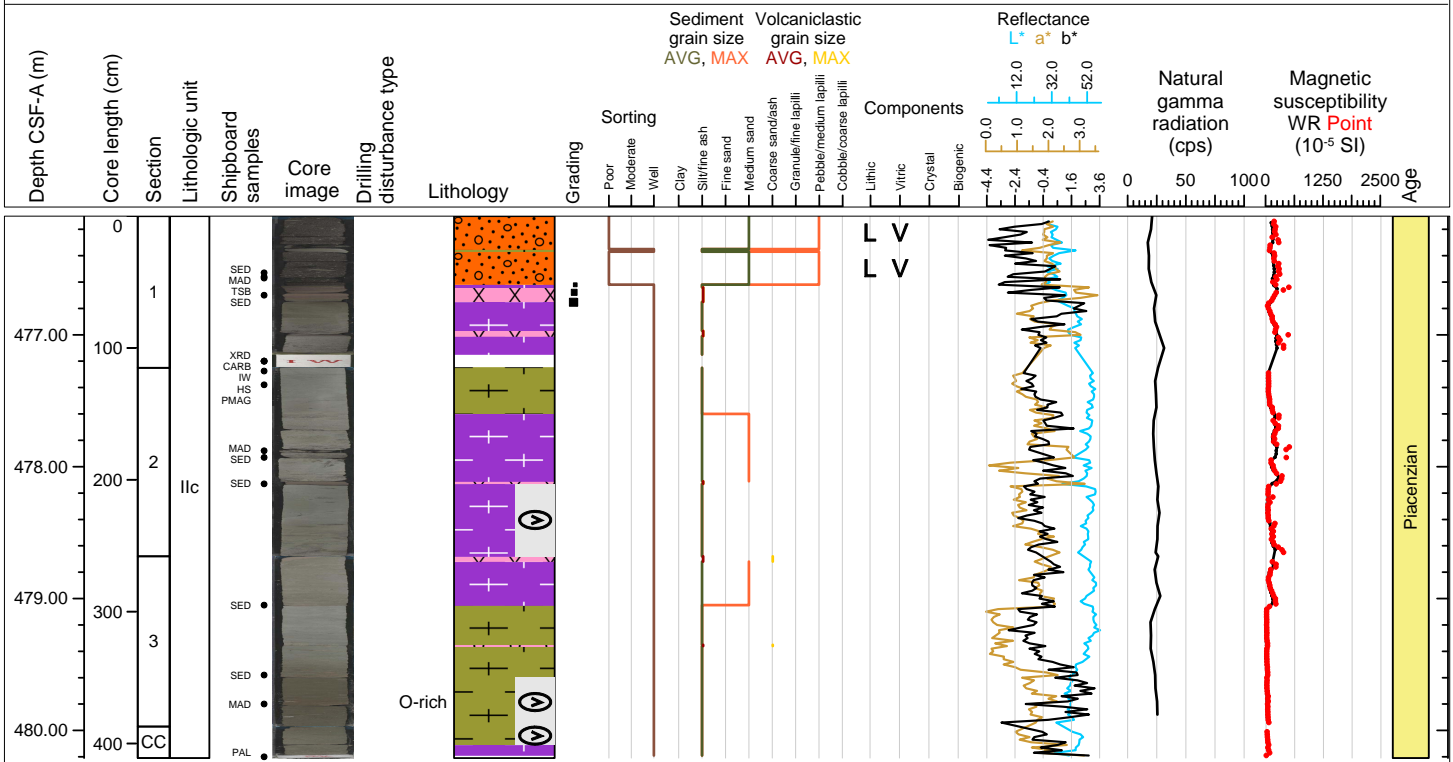
Hole 398-U1591C Core 27R, Interval 466.4-470.29 m (CSF-A)

Tuffaceous marl, tuff, marl, and organic rich mudstone.



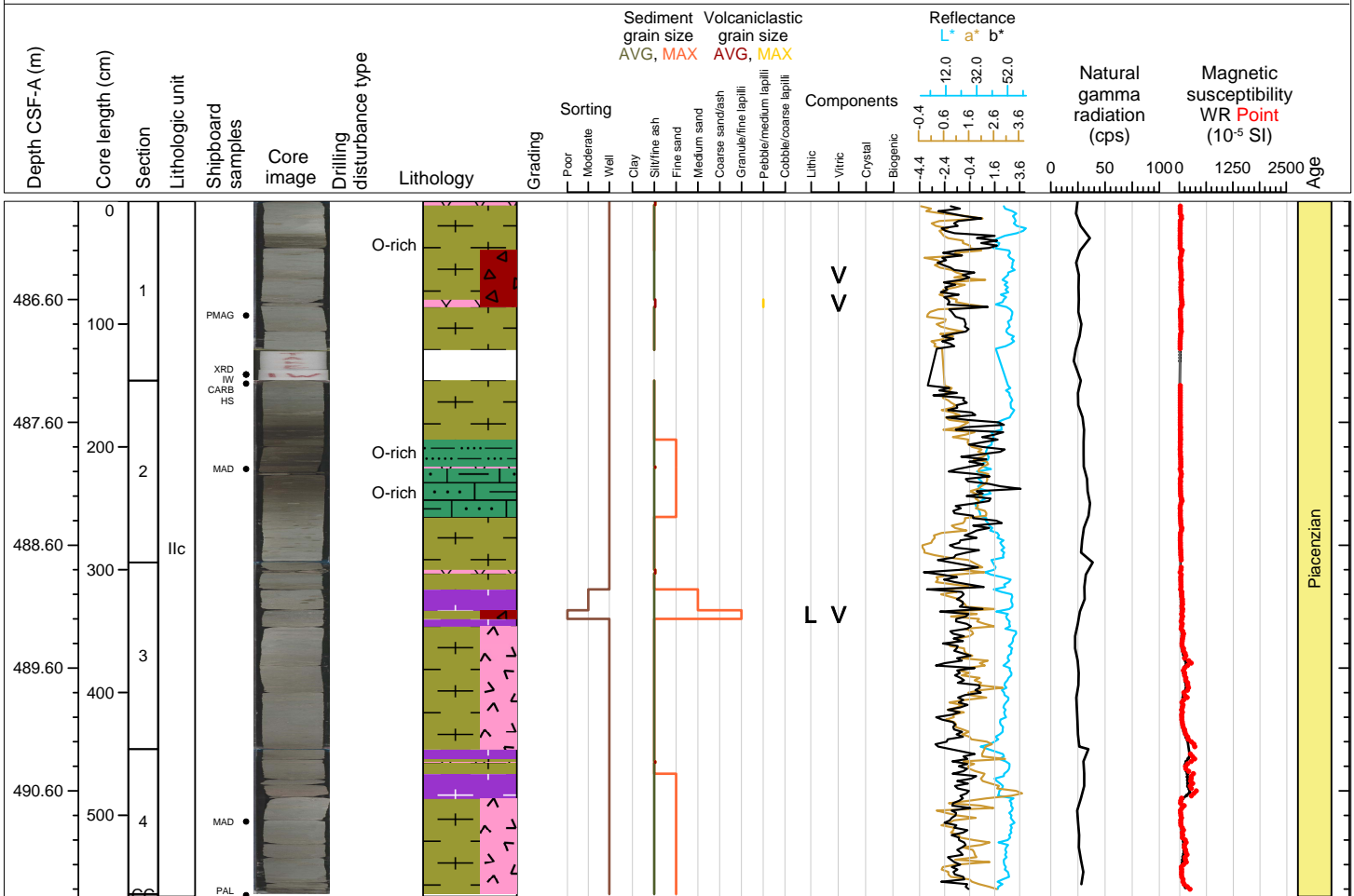
Hole 398-U1591C Core 28R, Interval 476.1-480.21 m (CSF-A)

Conglomerate, marl, tuffaceous marl, and organic rich marl.



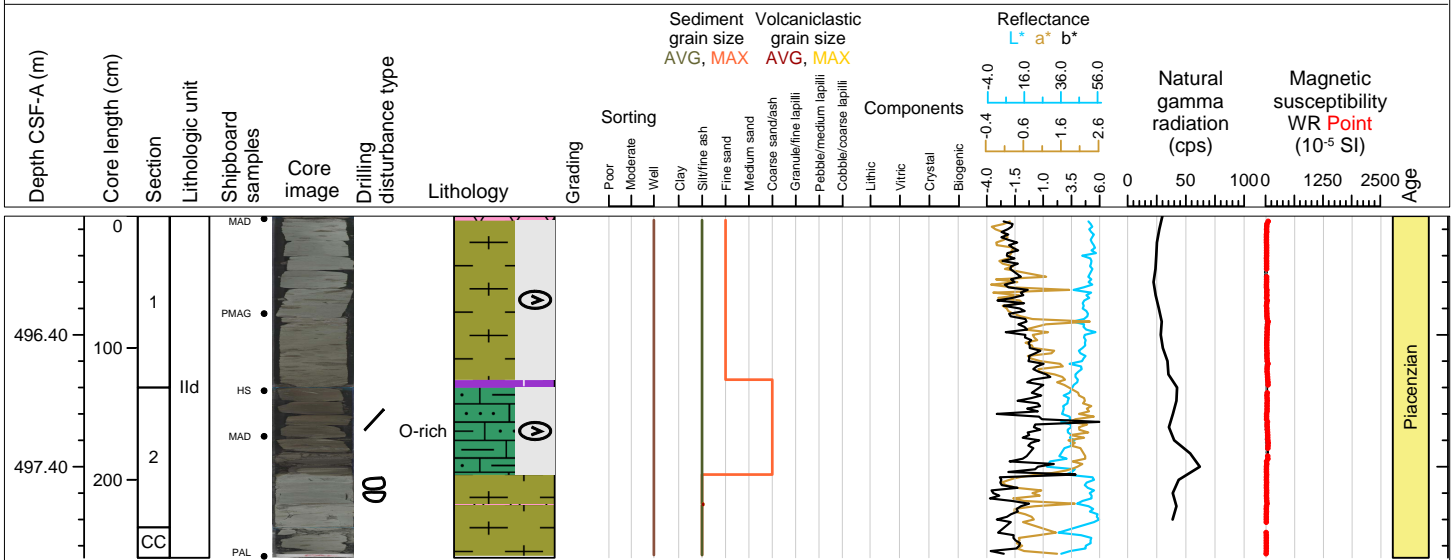
Hole 398-U1591C Core 29R, Interval 485.8-491.46 m (CSF-A)

Tuff, marl, organic rich marl, and organic rich mudstone.



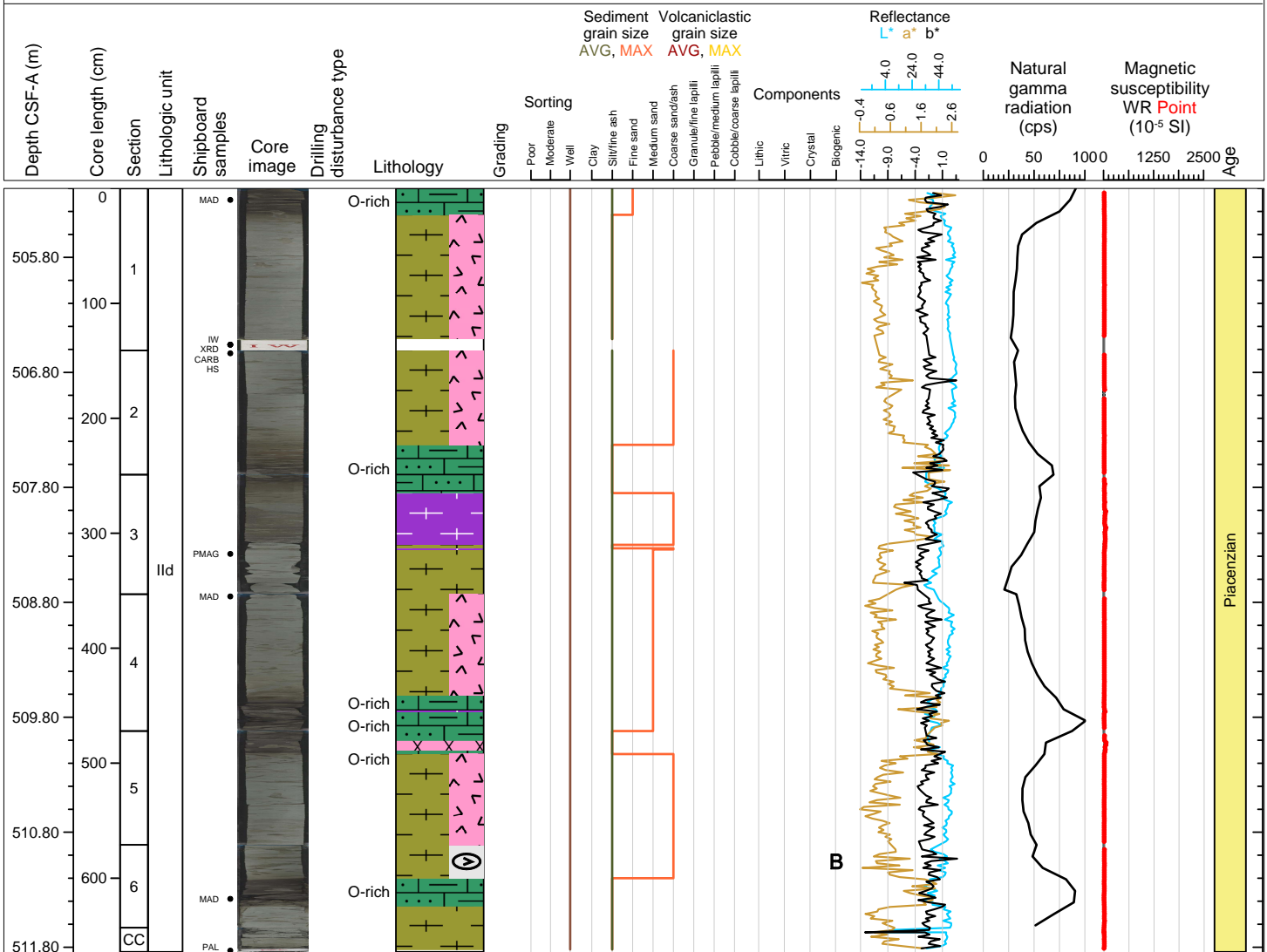
Hole 398-U1591C Core 30R, Interval 495.5-498.09 m (CSF-A)

Tuff, marl, tuffaceous marl and organic rich mudstone.



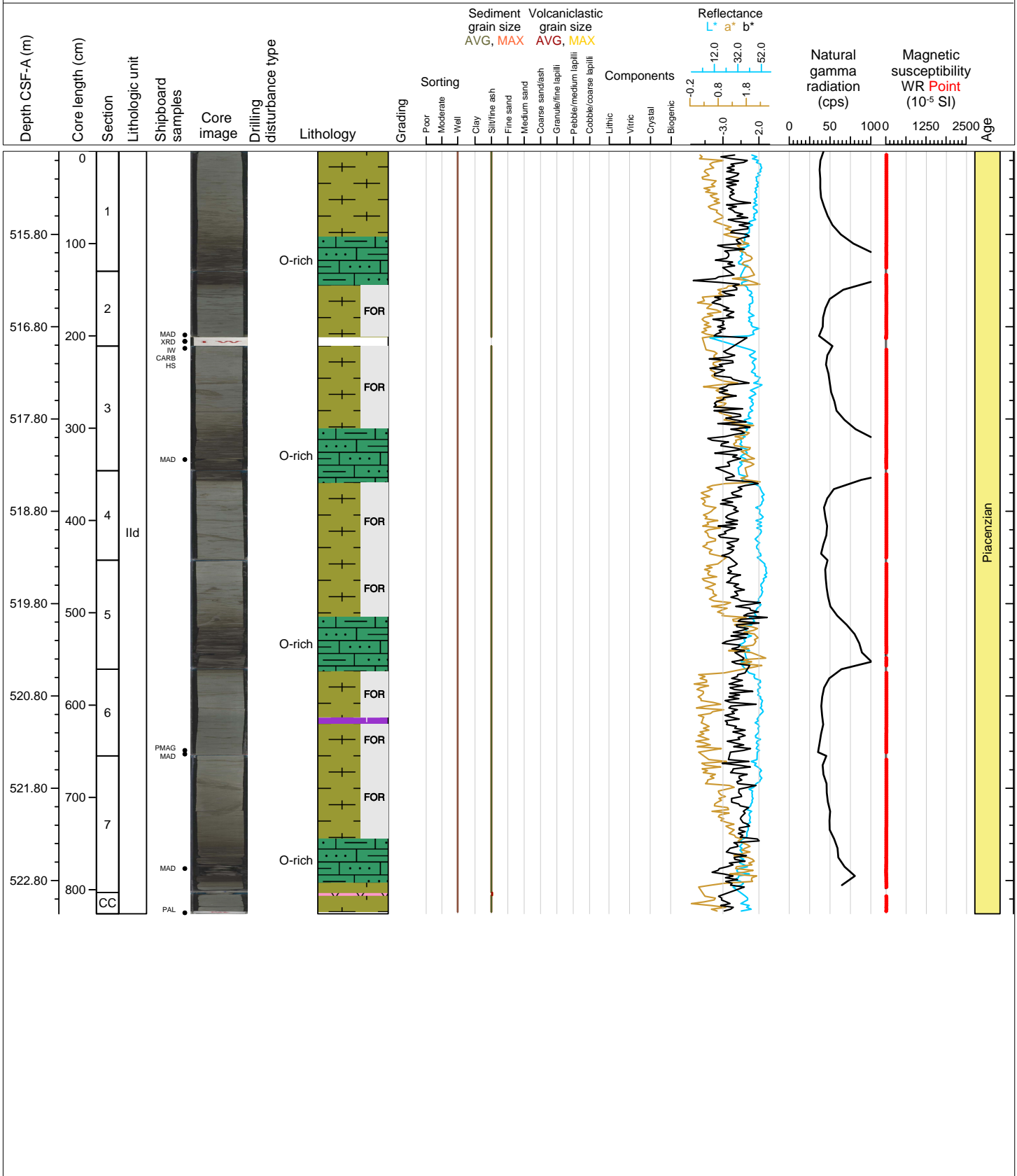
Hole 398-U1591C Core 31R, Interval 505.2-511.84 m (CSF-A)

Organic rich mudstone, marl, tuffaceous marl and crystal tuff.



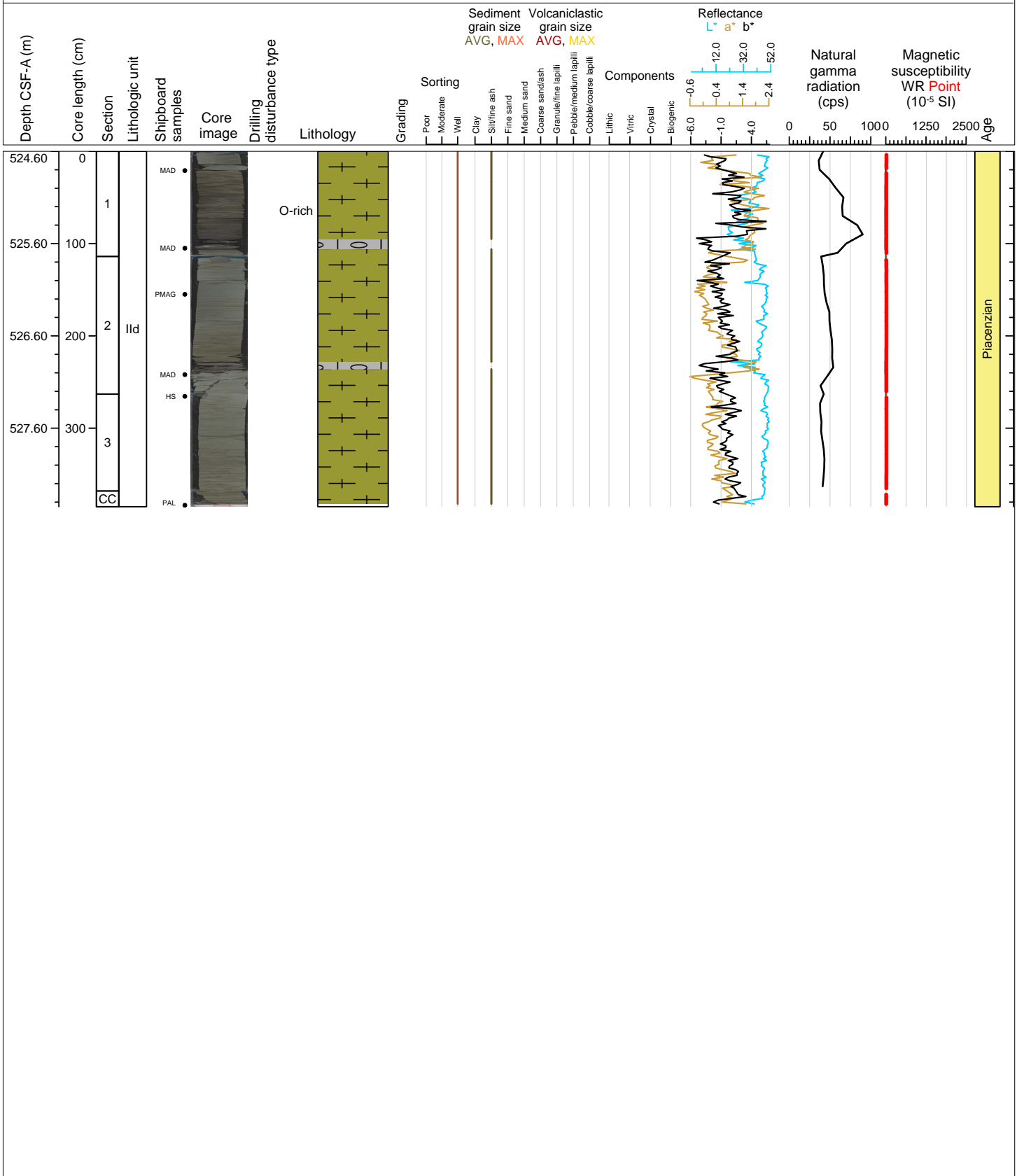
Hole 398-U1591C Core 32R, Interval 514.9-523.16 m (CSF-A)

Marl, organic rich mudstone, tuffaceous marl and tuff.



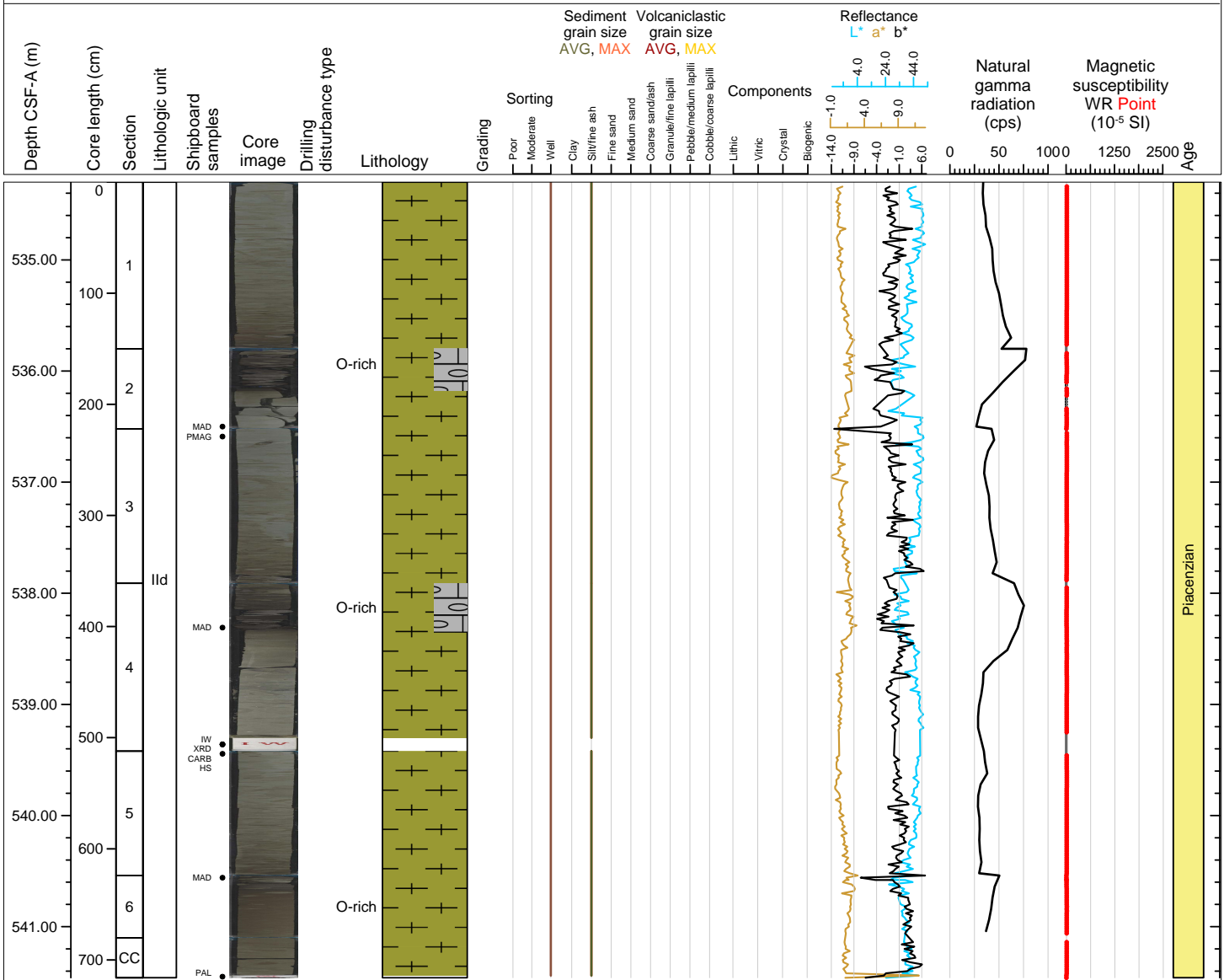
Hole 398-U1591C Core 33R, Interval 524.6-528.45 m (CSF-A)

Marl, organic rich marl and chert.



Hole 398-U1591C Core 34R, Interval 534.3-541.46 m (CSF-A)

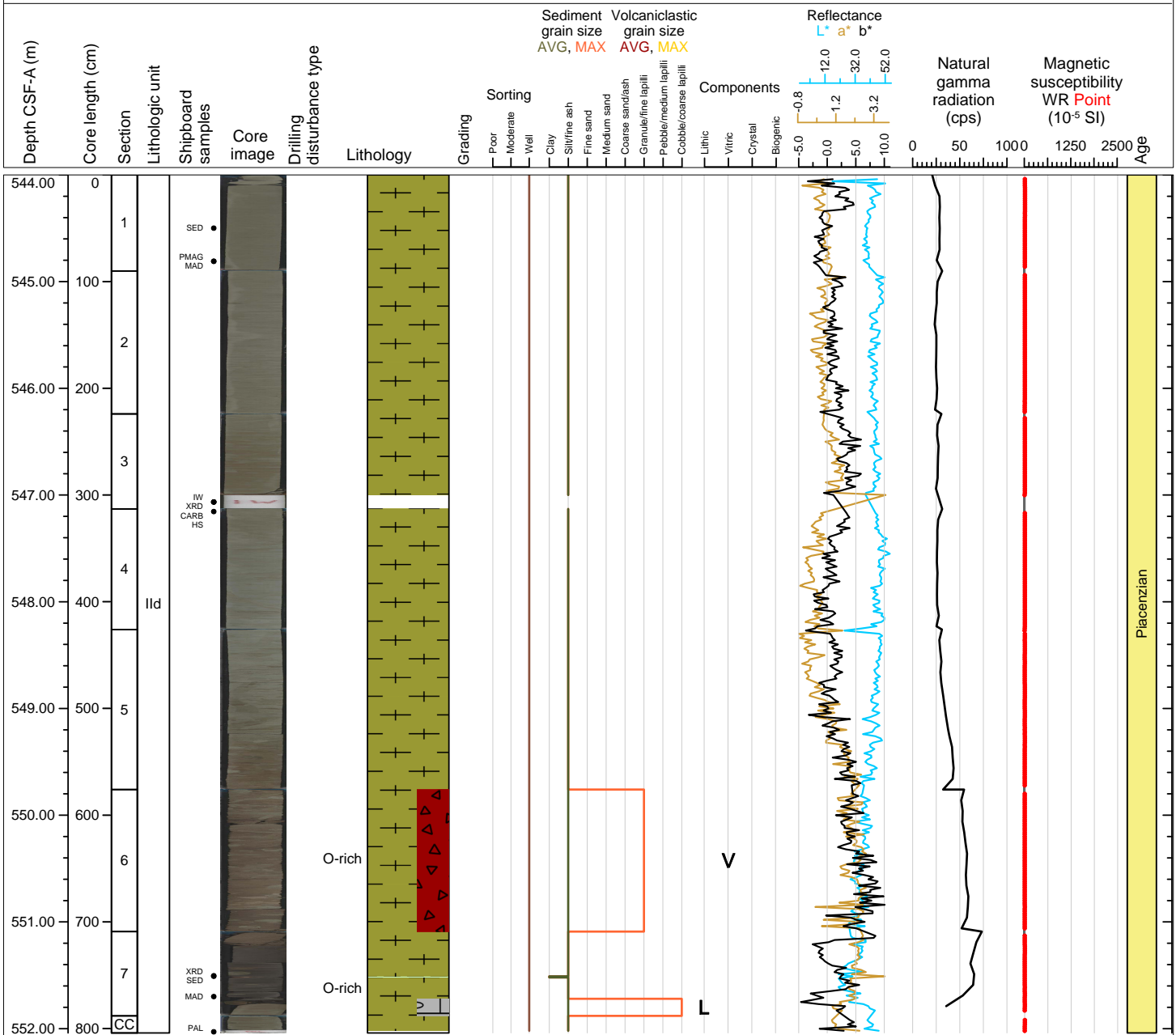
Marl, organic rich marl and organic rich marl with chert.





Hole 398-U1591C Core 35R, Interval 544.0-552.04 m (CSF-A)

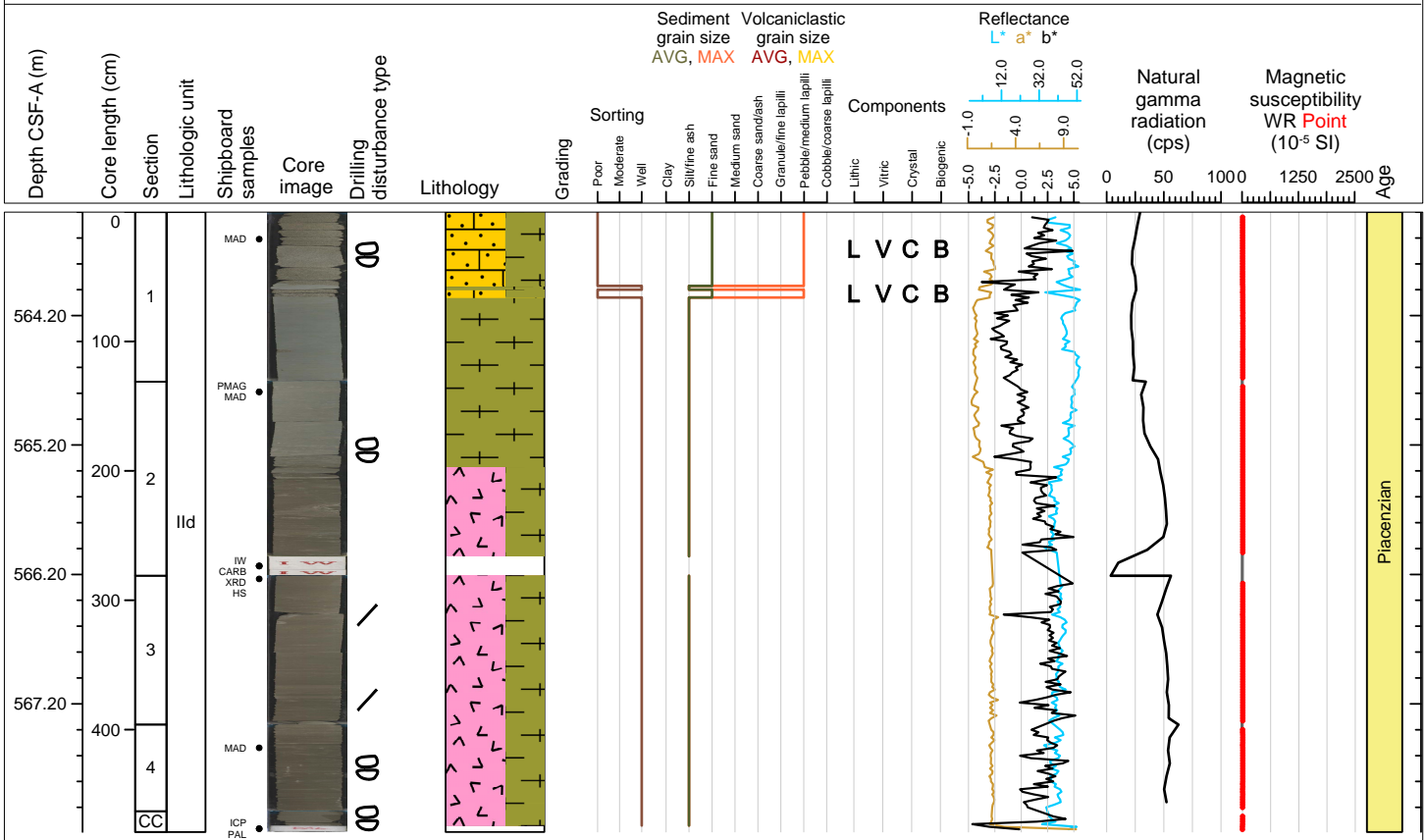
Marl, organic rich marl, clay, and marl with chert.





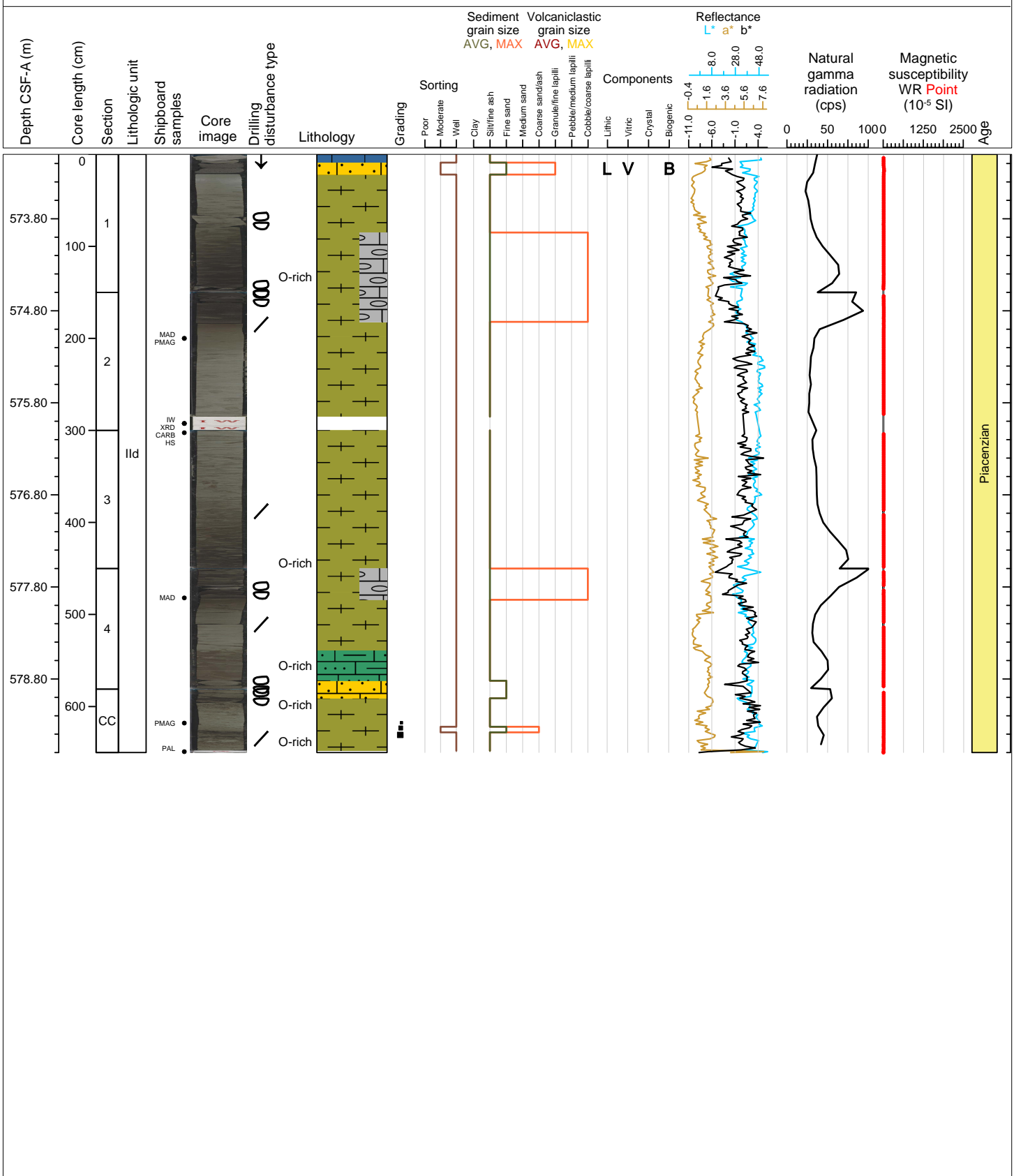
Hole 398-U1591C Core 37R, Interval 563.4-568.19 m (CSF-A)

Sandstone with marl, ash with marl and marl.



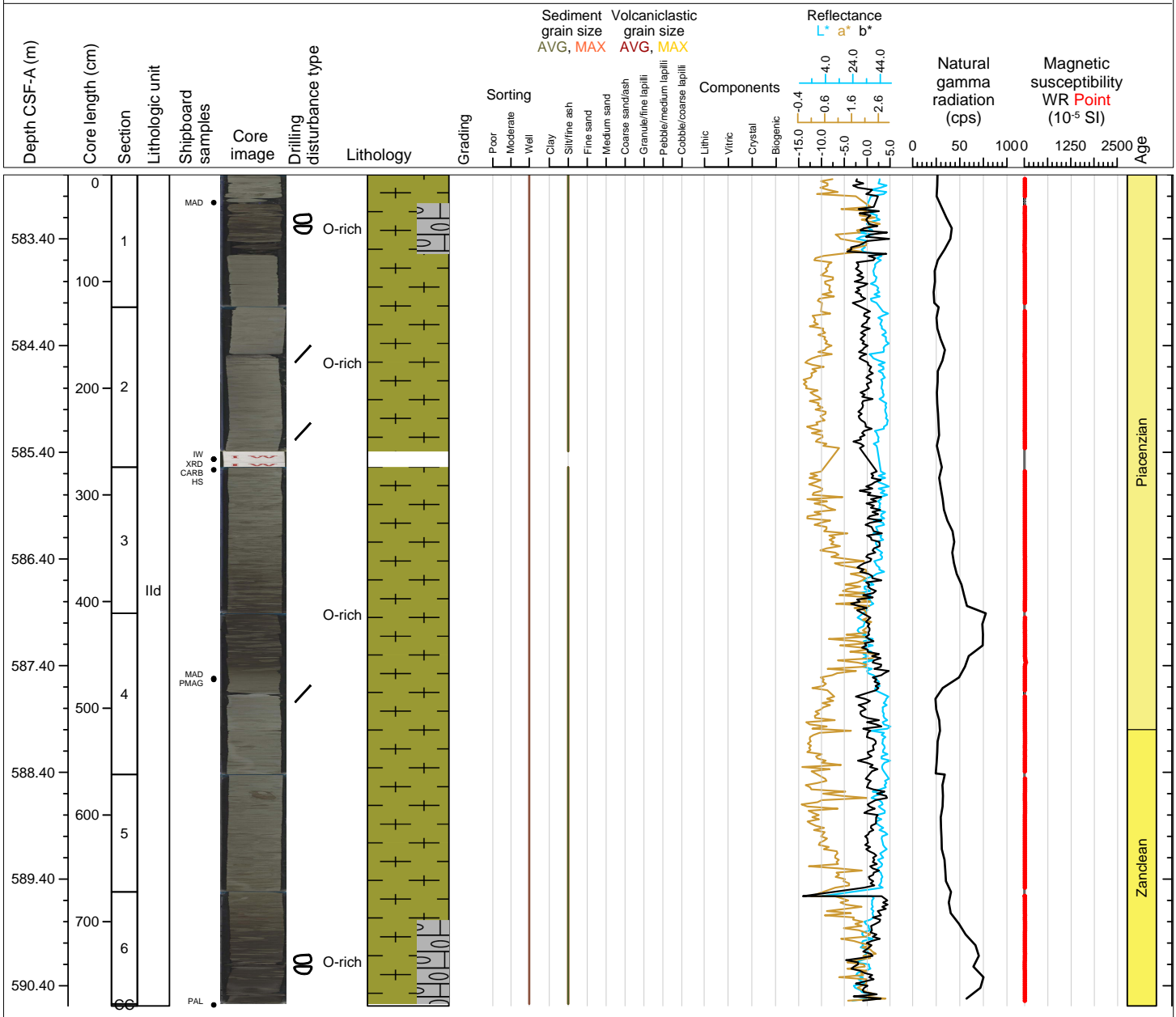
Hole 398-U1591C Core 38R, Interval 573.1-579.6 m (CSF-A)

Limestone, sandstone, marl, organic rich marl, and organic rich mudstone.



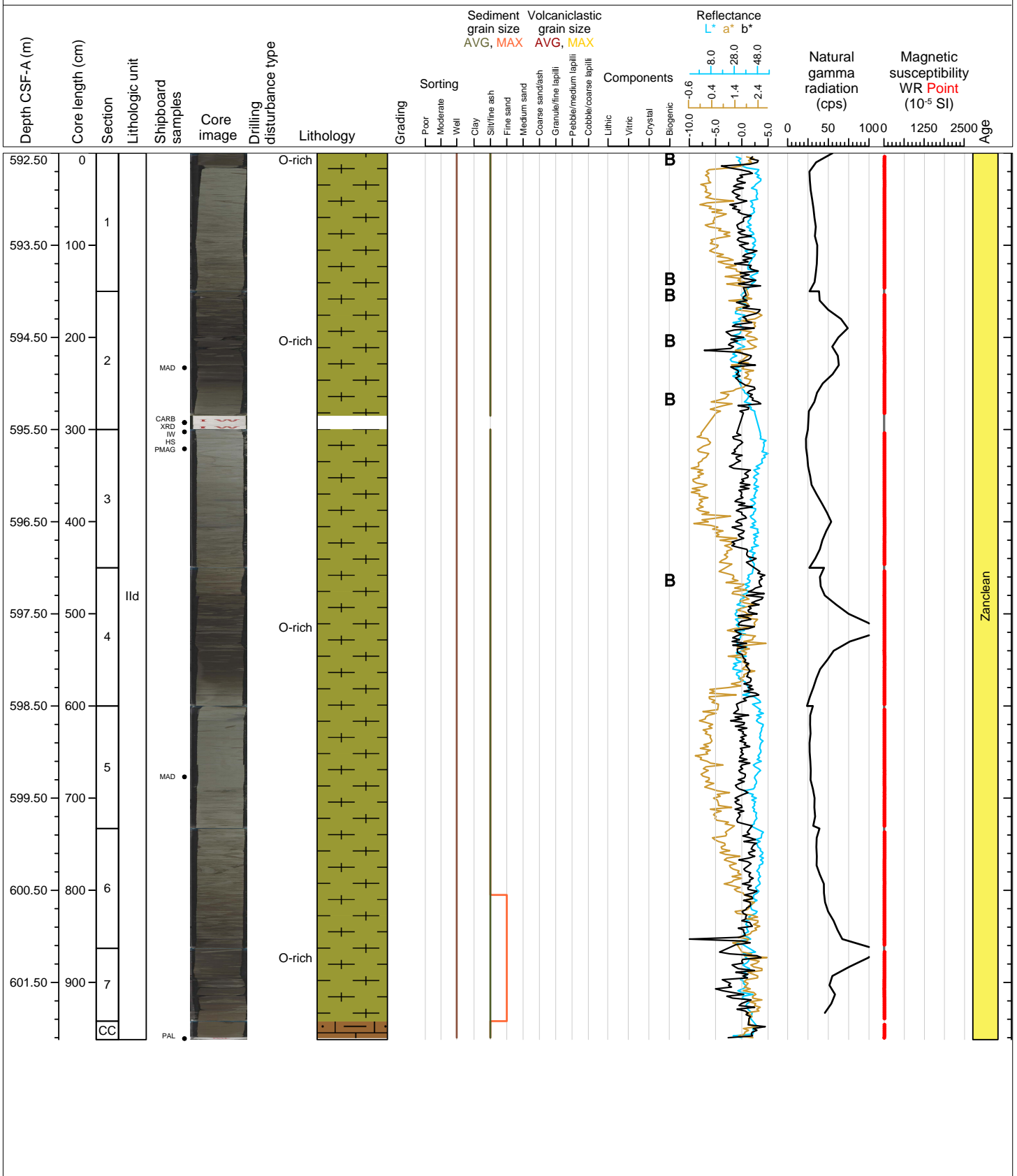
Hole 398-U1591C Core 39R, Interval 582.8-590.59 m (CSF-A)

Marl and organic rich marl.



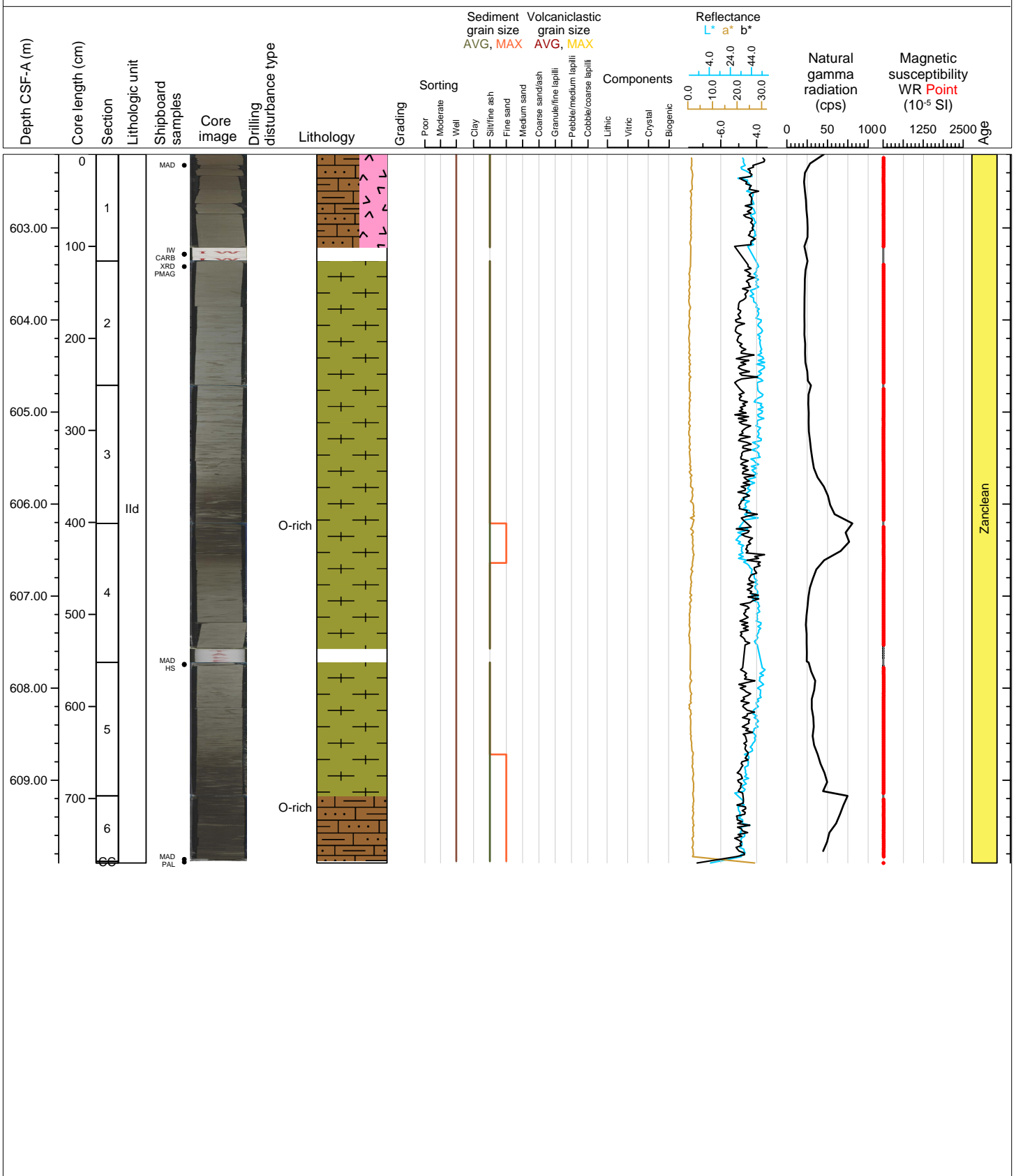
Hole 398-U1591C Core 40R, Interval 592.5-602.12 m (CSF-A)

Organic rich marl, marl and calcareous mudstone.



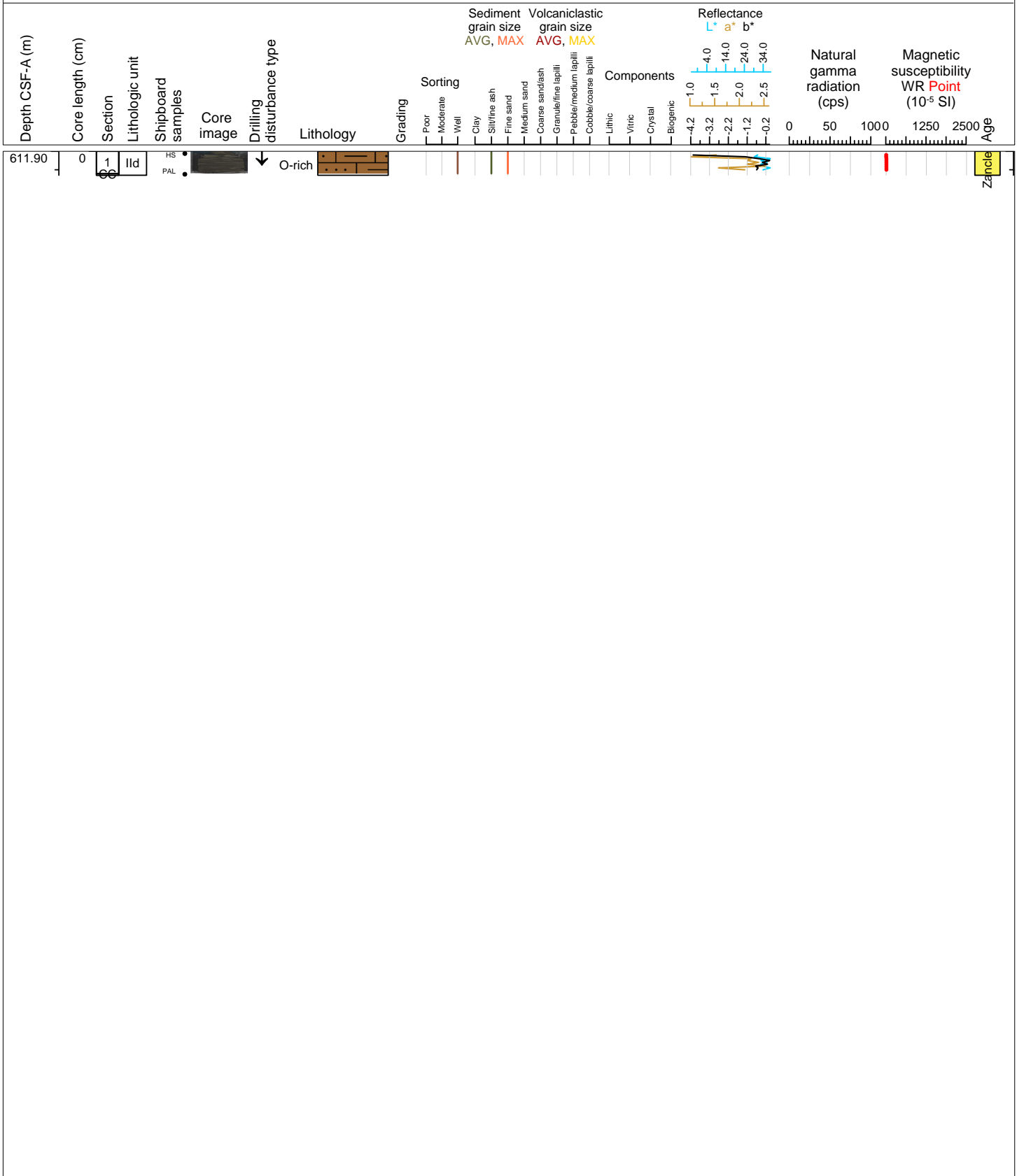
Hole 398-U1591C Core 41R, Interval 602.2-609.9 m (CSF-A)

Calcareous mudstone with ash, marl, organic rich marl and organic rich calcareous mudstone.



Hole 398-U1591C Core 42R, Interval 611.9-612.16 m (CSF-A)

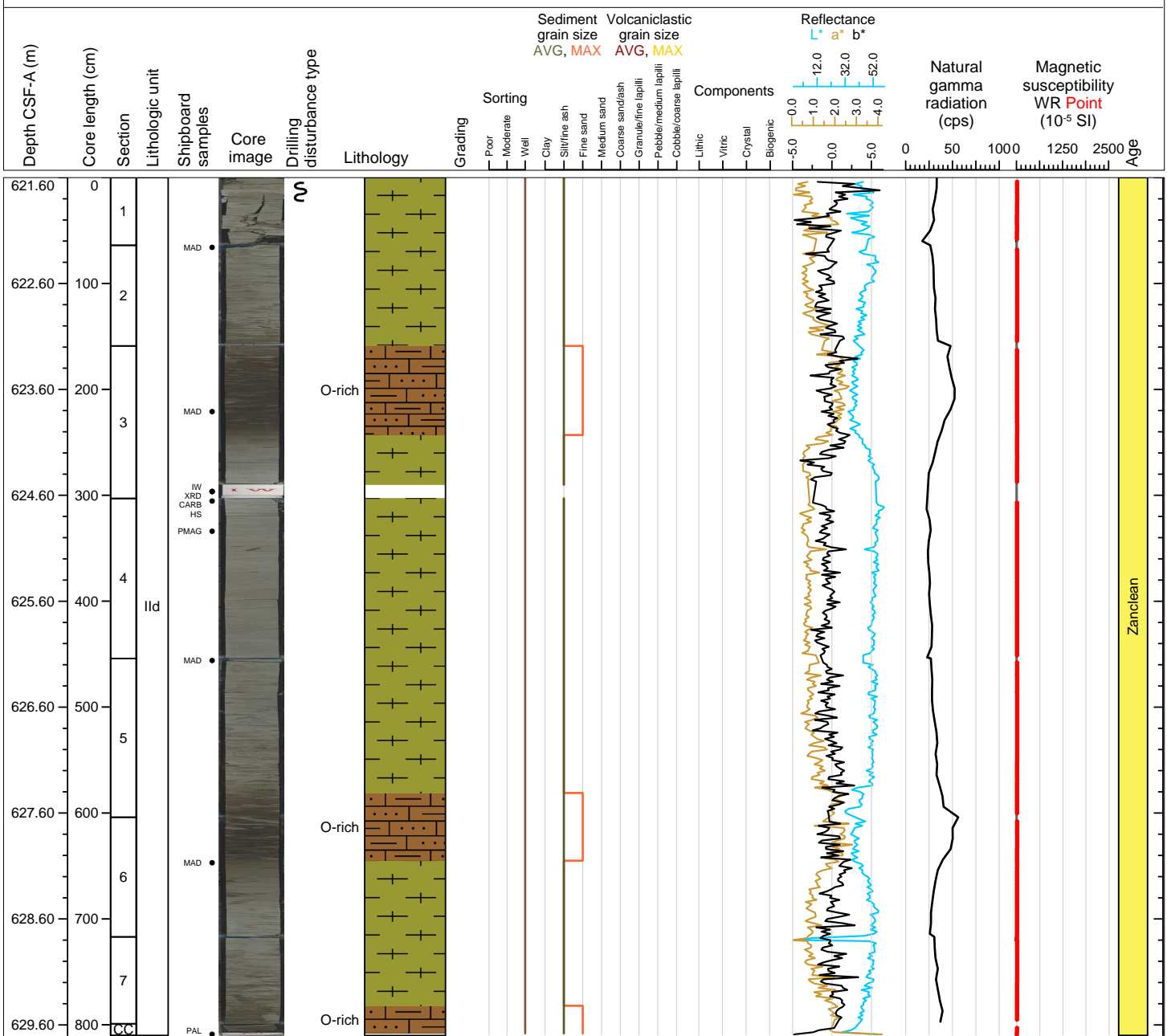
Organic rich calcareous mudstone.





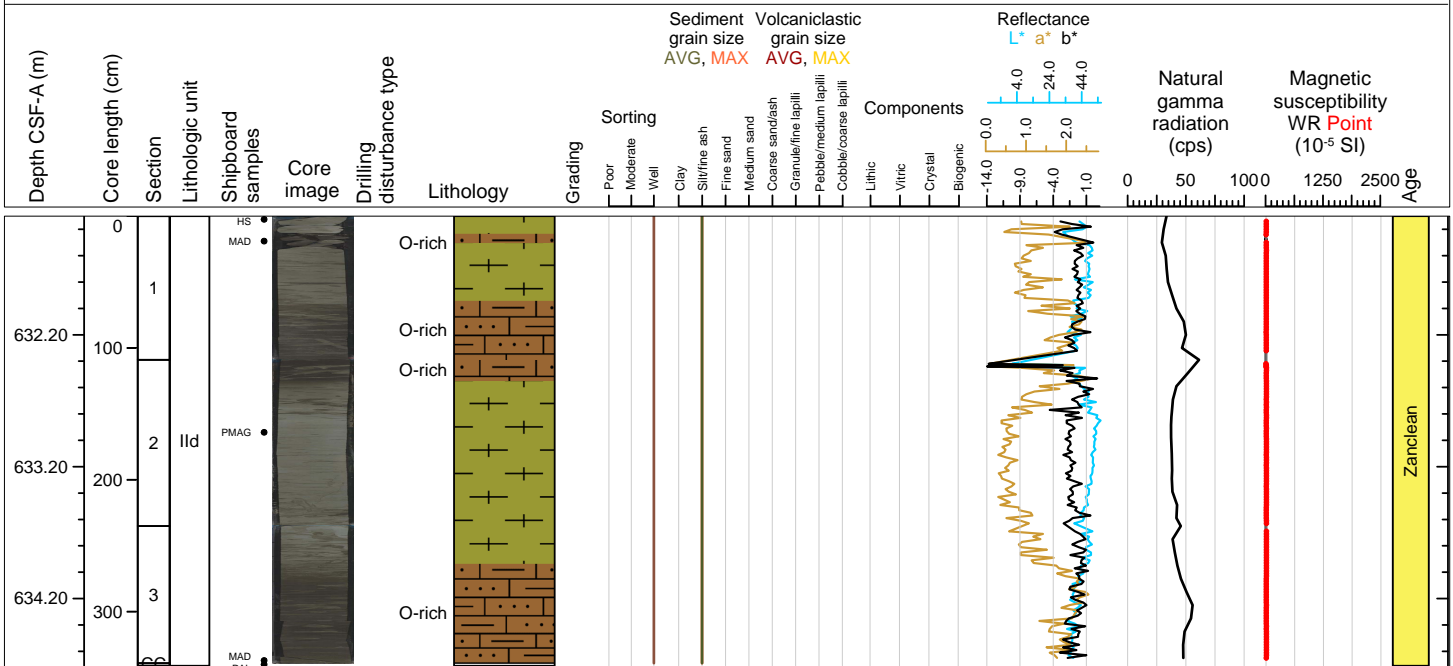
Hole 398-U1591C Core 43R, Interval 621.6-629.7 m (CSF-A)

Marl and organic rich calcareous mudstone.



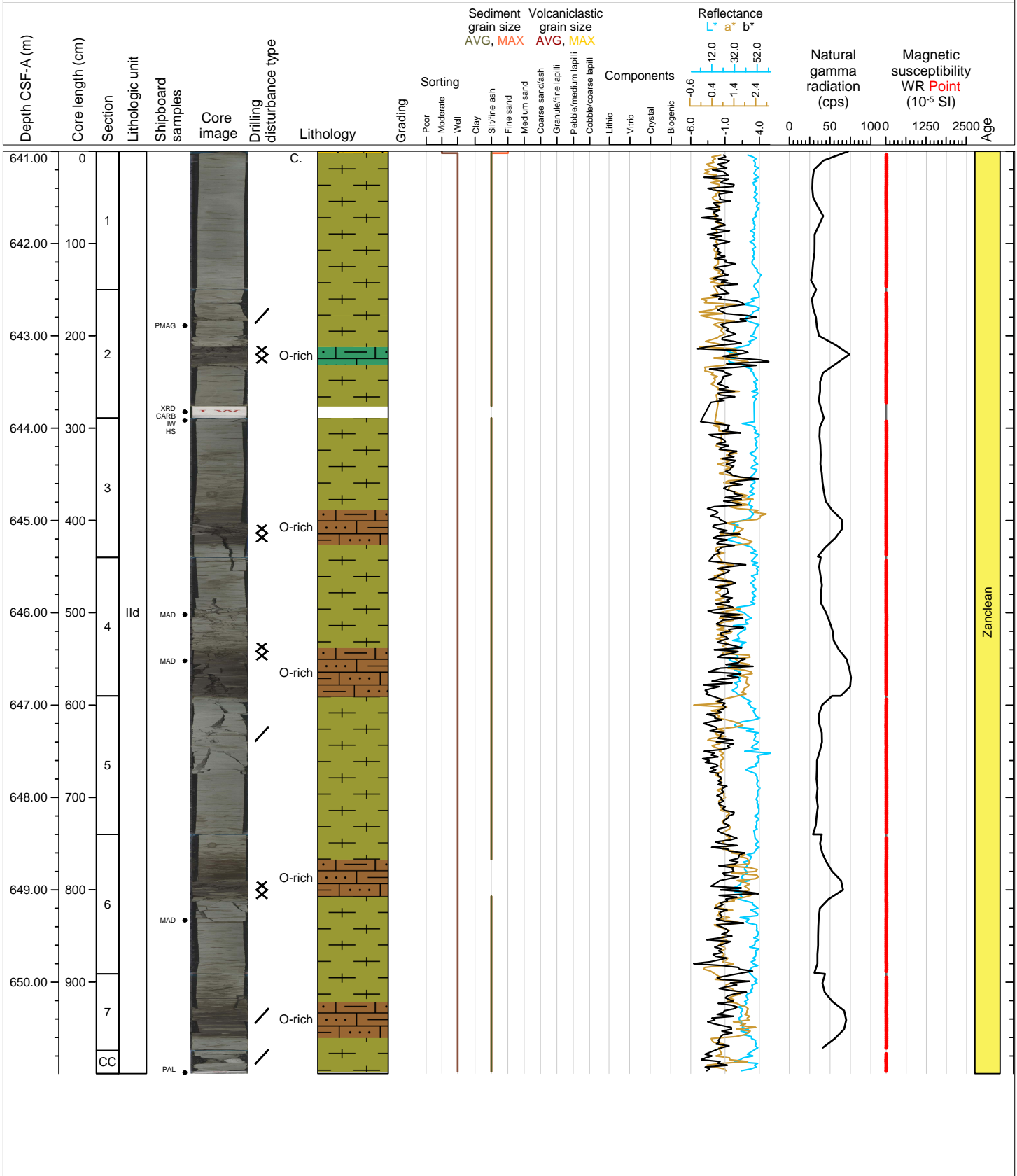
Hole 398-U1591C Core 44R, Interval 631.3-634.71 m (CSF-A)

Marl and organic rich calcareous mudstone.



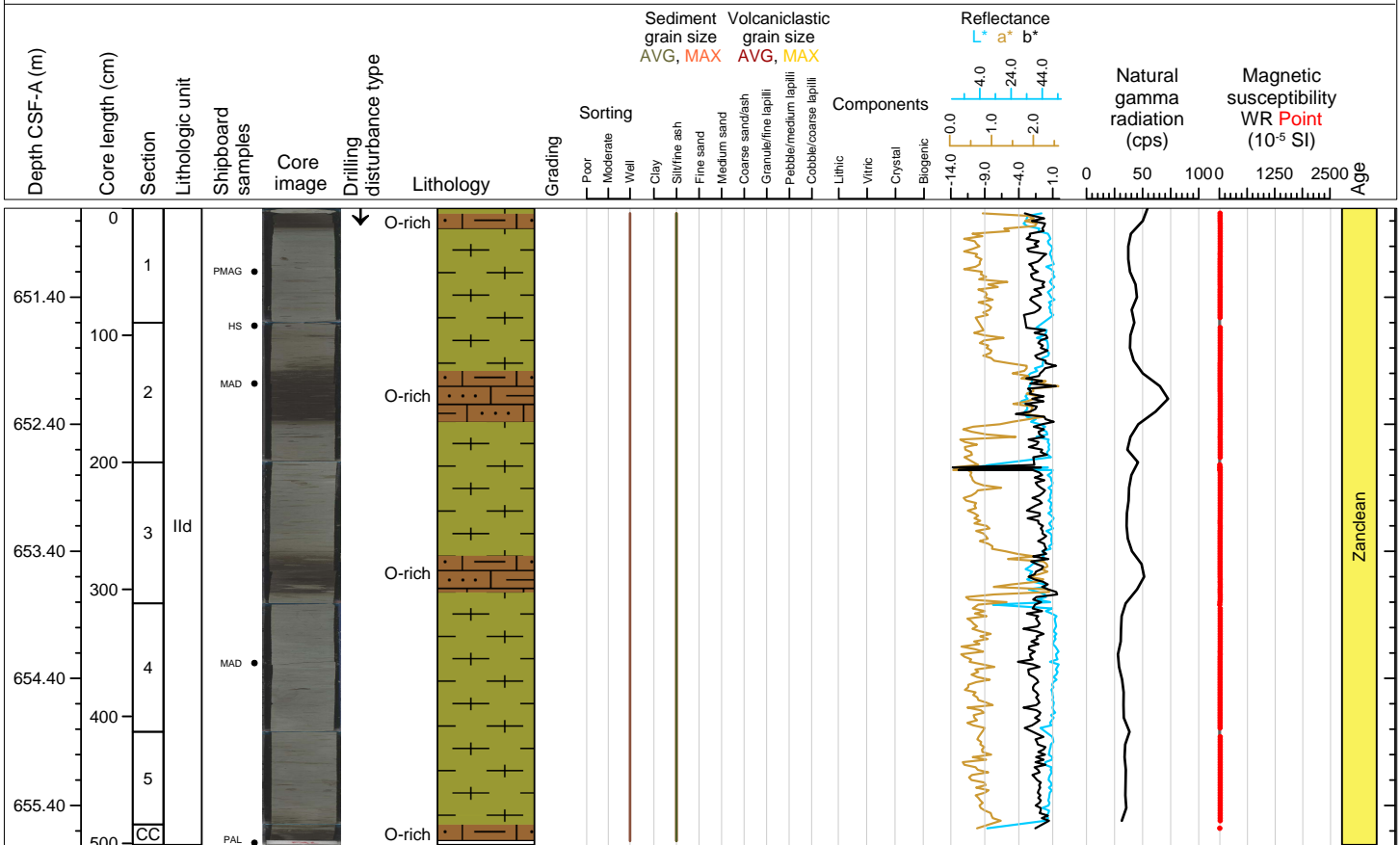
Hole 398-U1591C Core 45R, Interval 641.0-650.99 m (CSF-A)

Marl and organic rich calcareous mudstone.



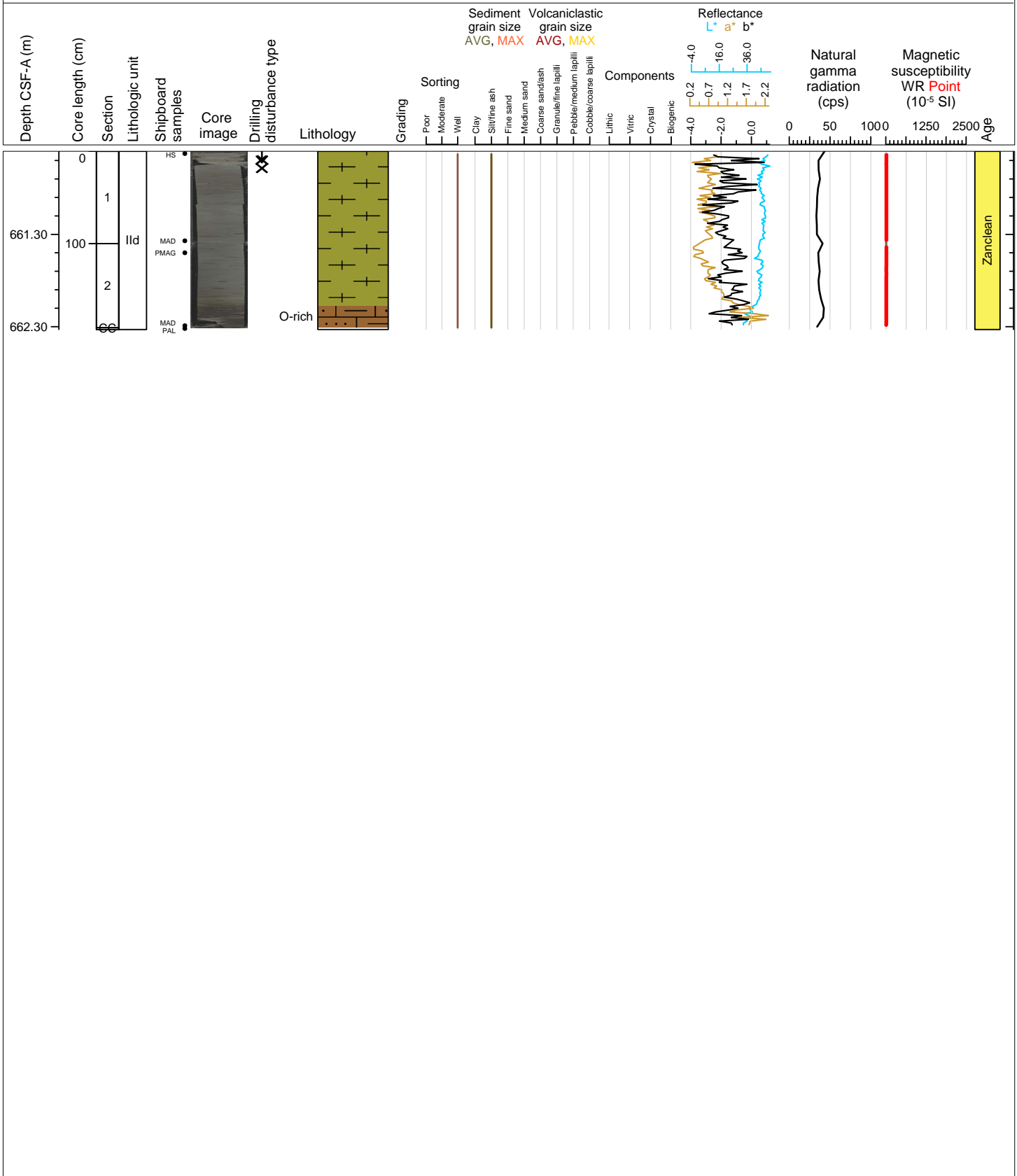
Hole 398-U1591C Core 46R, Interval 650.7-655.71 m (CSF-A)

Marl and organic rich calcareous mudstone.



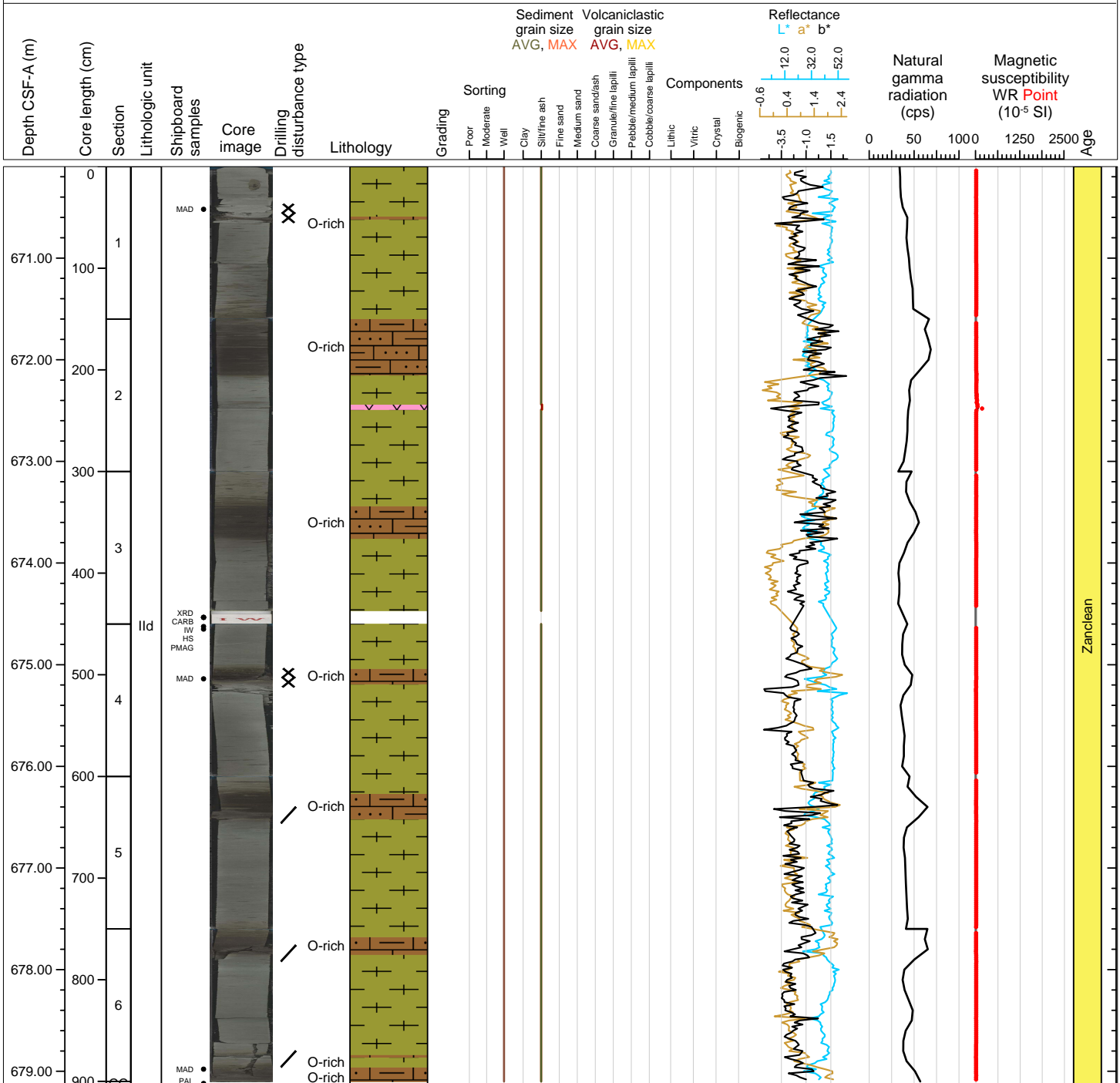
Hole 398-U1591C Core 47R, Interval 660.4-662.33 m (CSF-A)

Marl and organic rich calcareous mudstone.



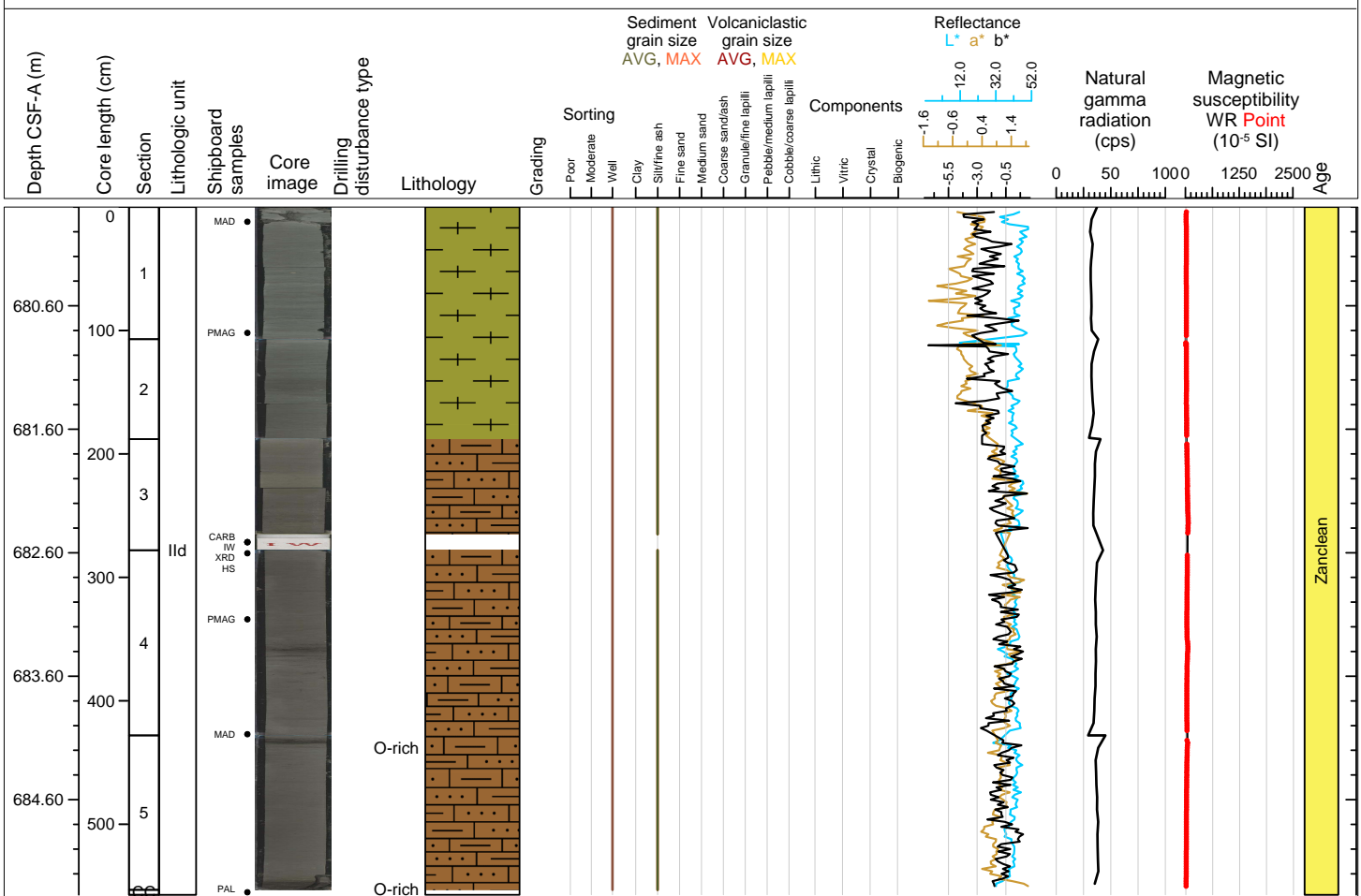
Hole 398-U1591C Core 48R, Interval 670.1-679.14 m (CSF-A)

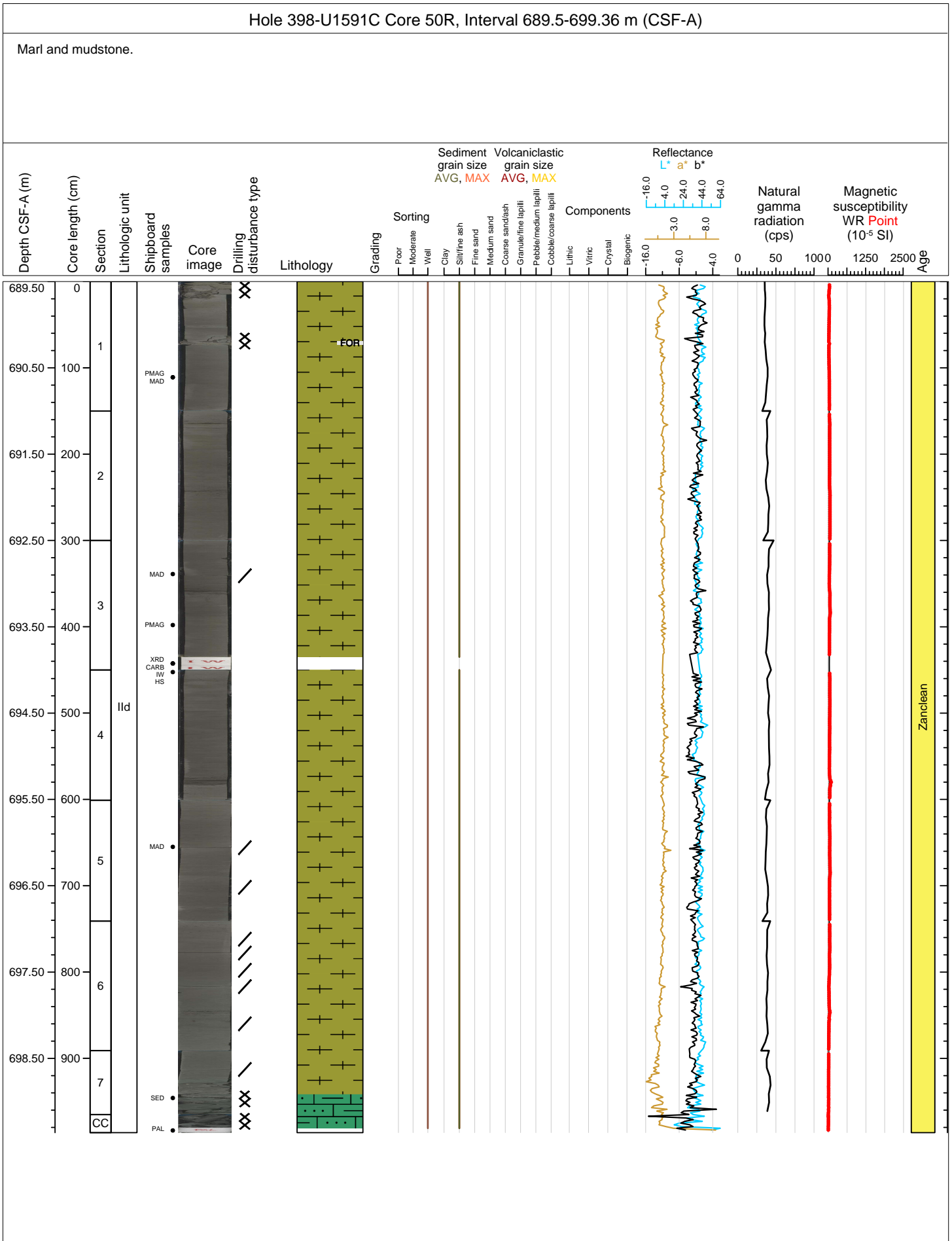
Marl and organic rich calcareous mudstone.



Hole 398-U1591C Core 49R, Interval 679.8-685.37 m (CSF-A)

Marl, calcareous mudstone and organic rich calcareous mudstone.

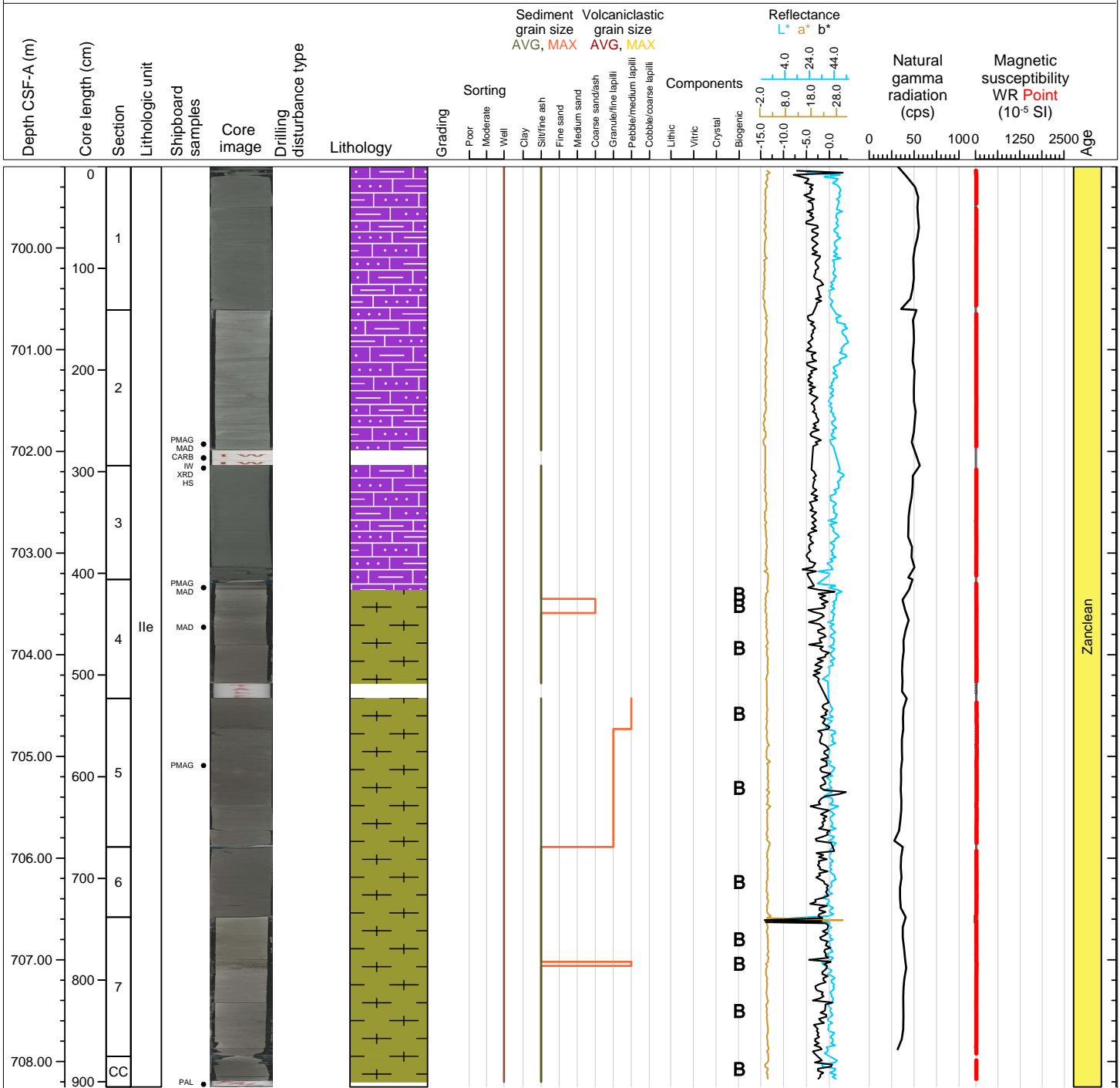






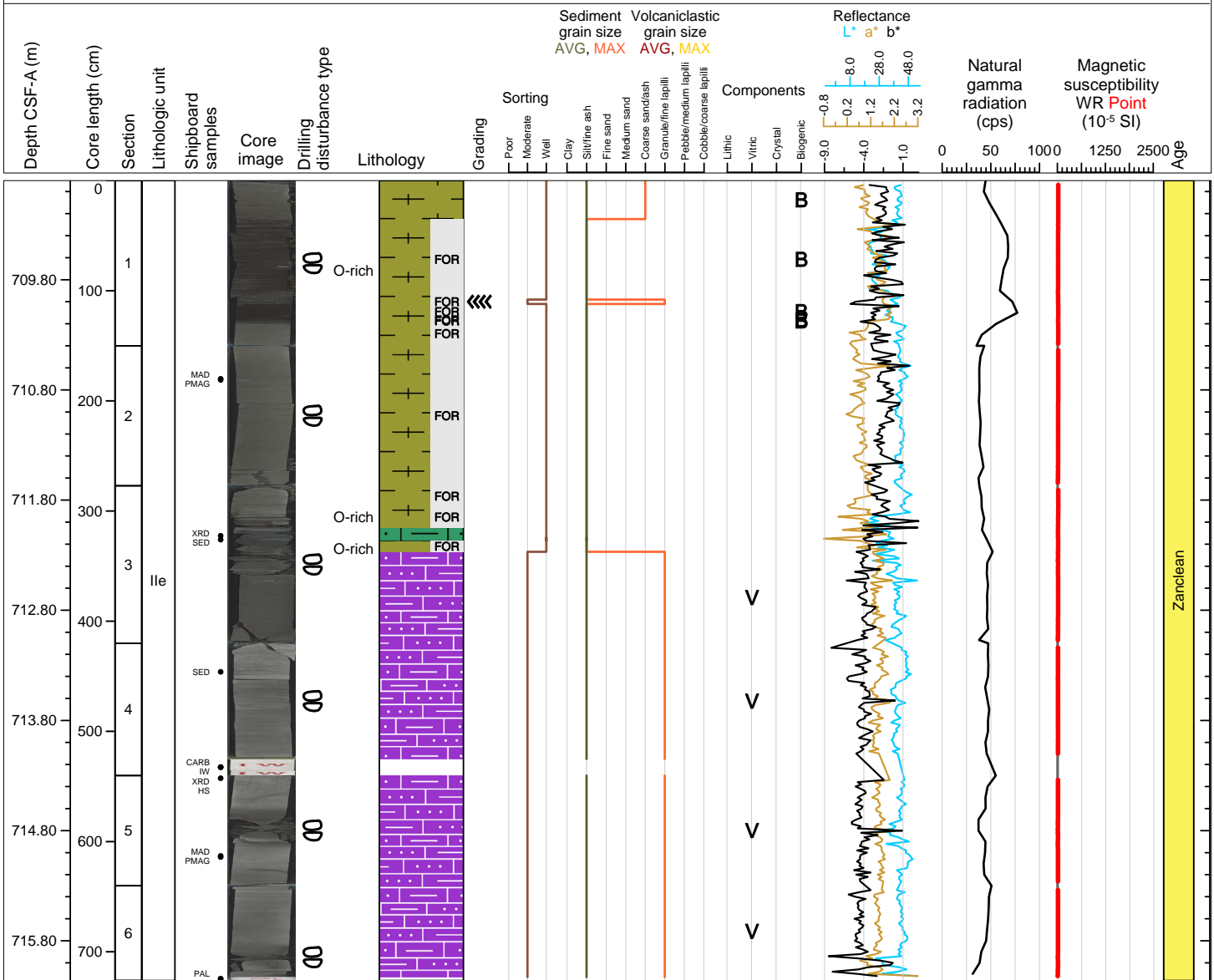
Hole 398-U1591C Core 51R, Interval 699.2-708.25 m (CSF-A)

Tuffaceous mudstone and marl.



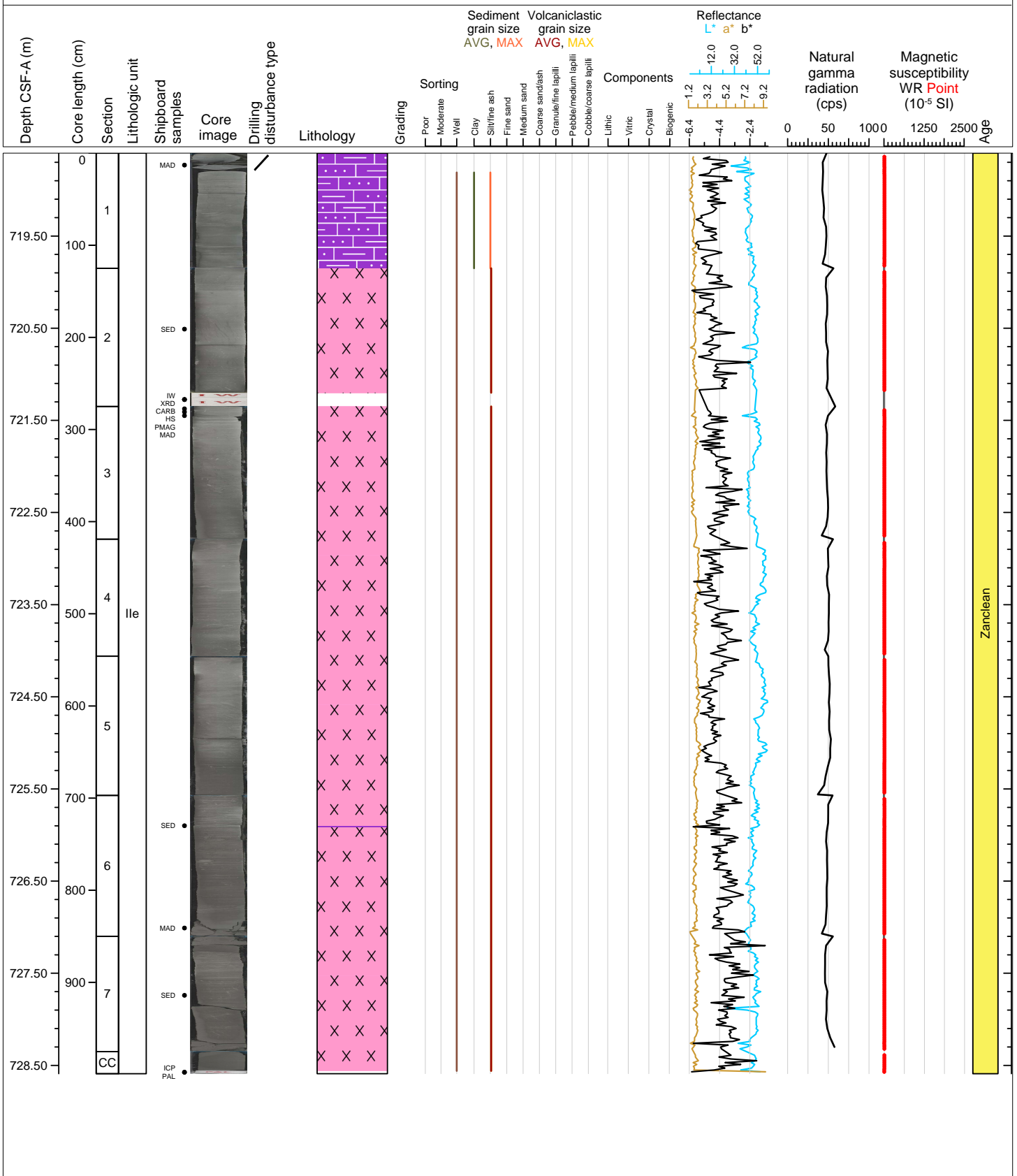
Hole 398-U1591C Core 52R, Interval 708.9-716.16 m (CSF-A)

Marl, organic rich marl, mudstone and tuffaceous mudstone.



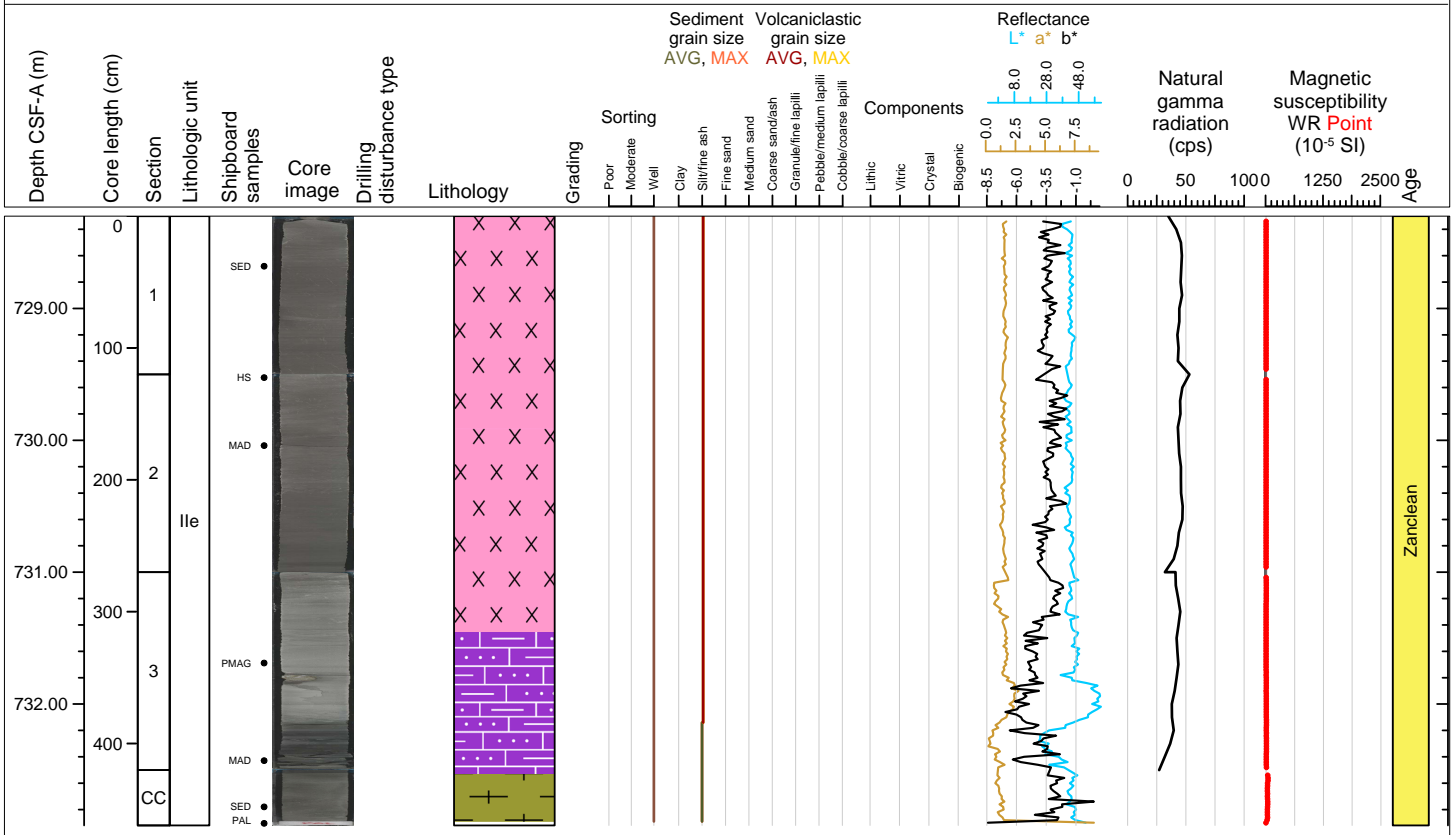
Hole 398-U1591C Core 53R, Interval 718.6-728.59 m (CSF-A)

Tuffaceous mudstone and tuff.



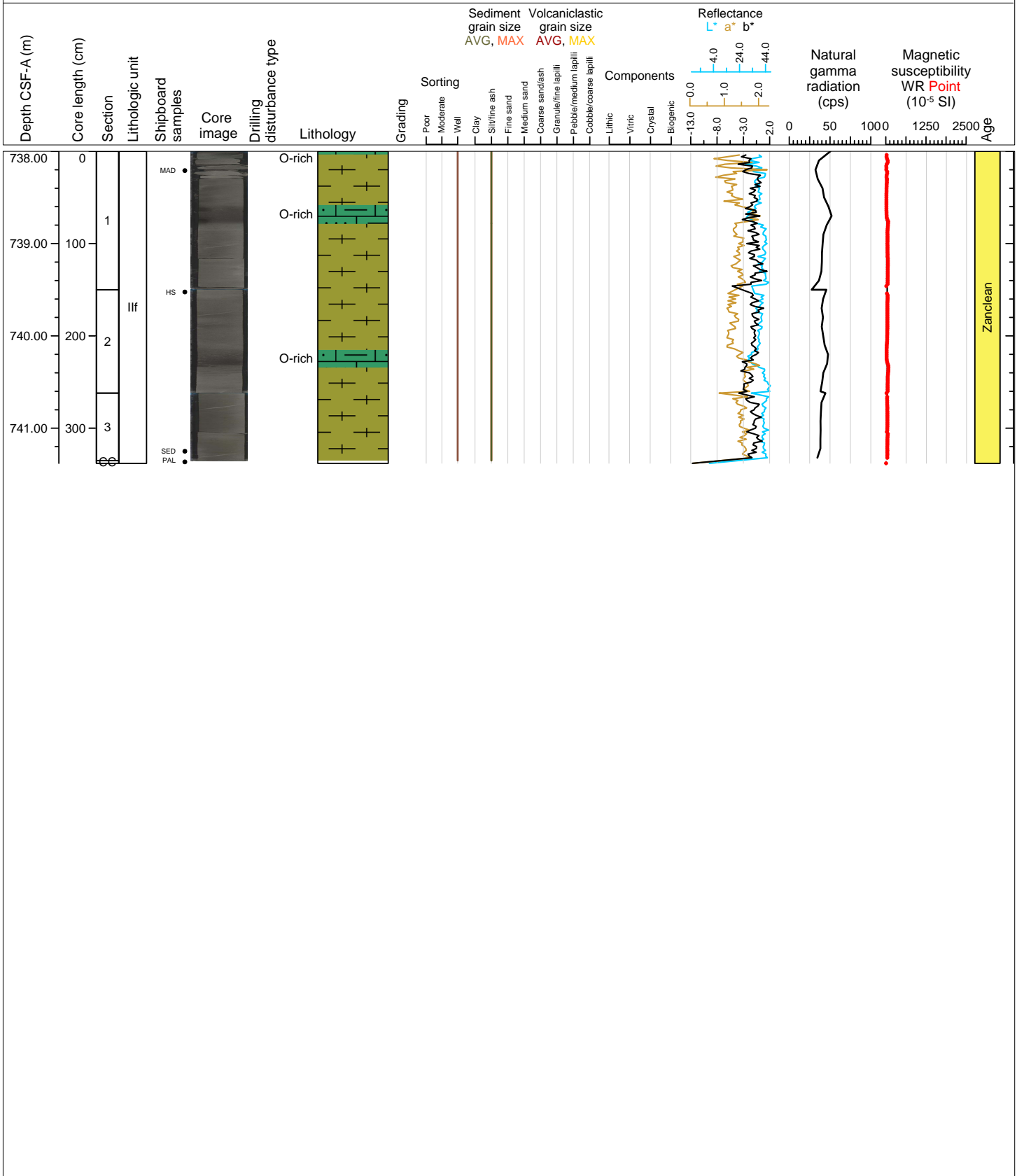
Hole 398-U1591C Core 54R, Interval 728.3-732.92 m (CSF-A)

Tuff, tuffaceous mudstone and marl.



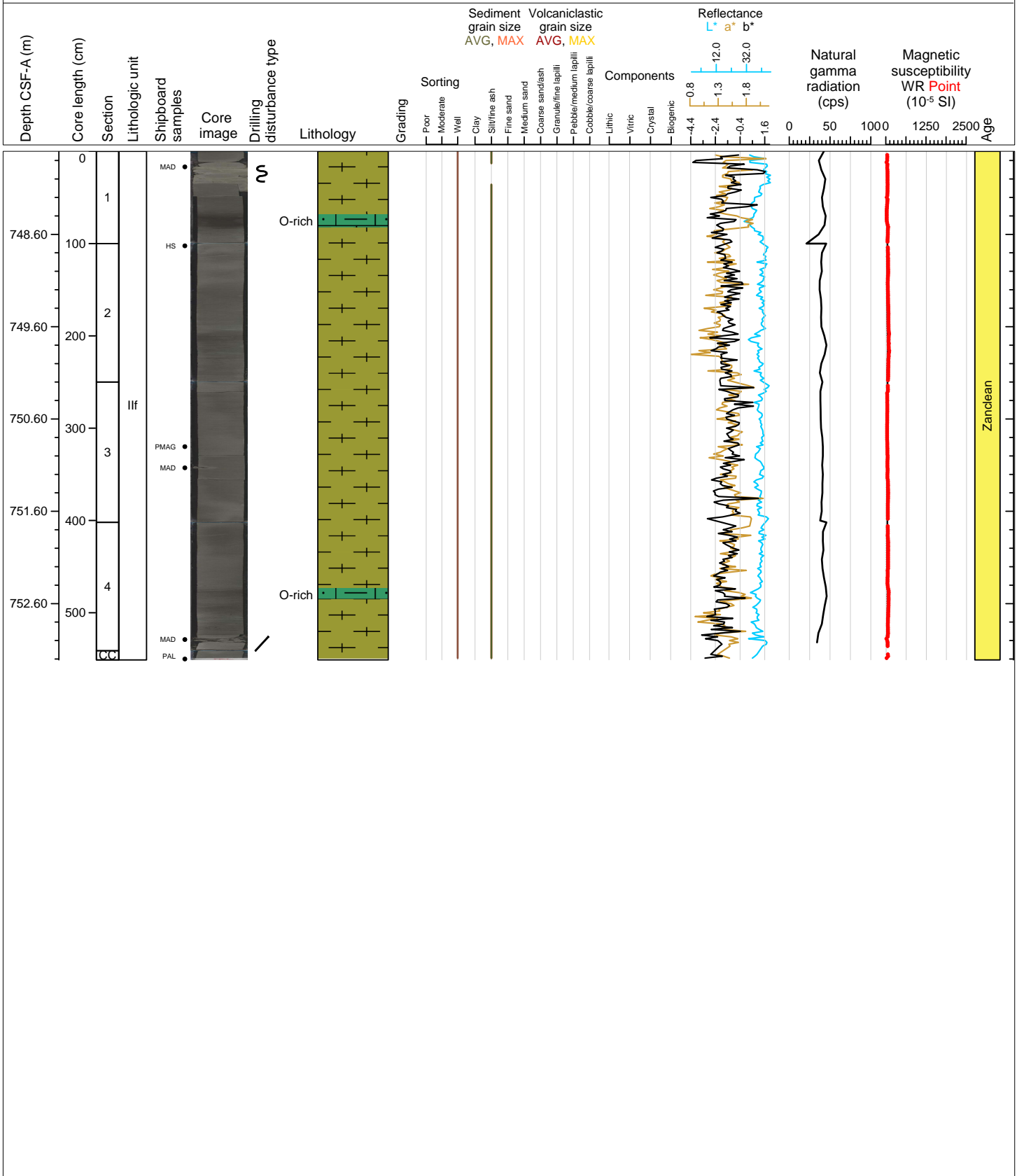
Hole 398-U1591C Core 55R, Interval 738.0-741.38 m (CSF-A)

Organic rich mudstone and marl.



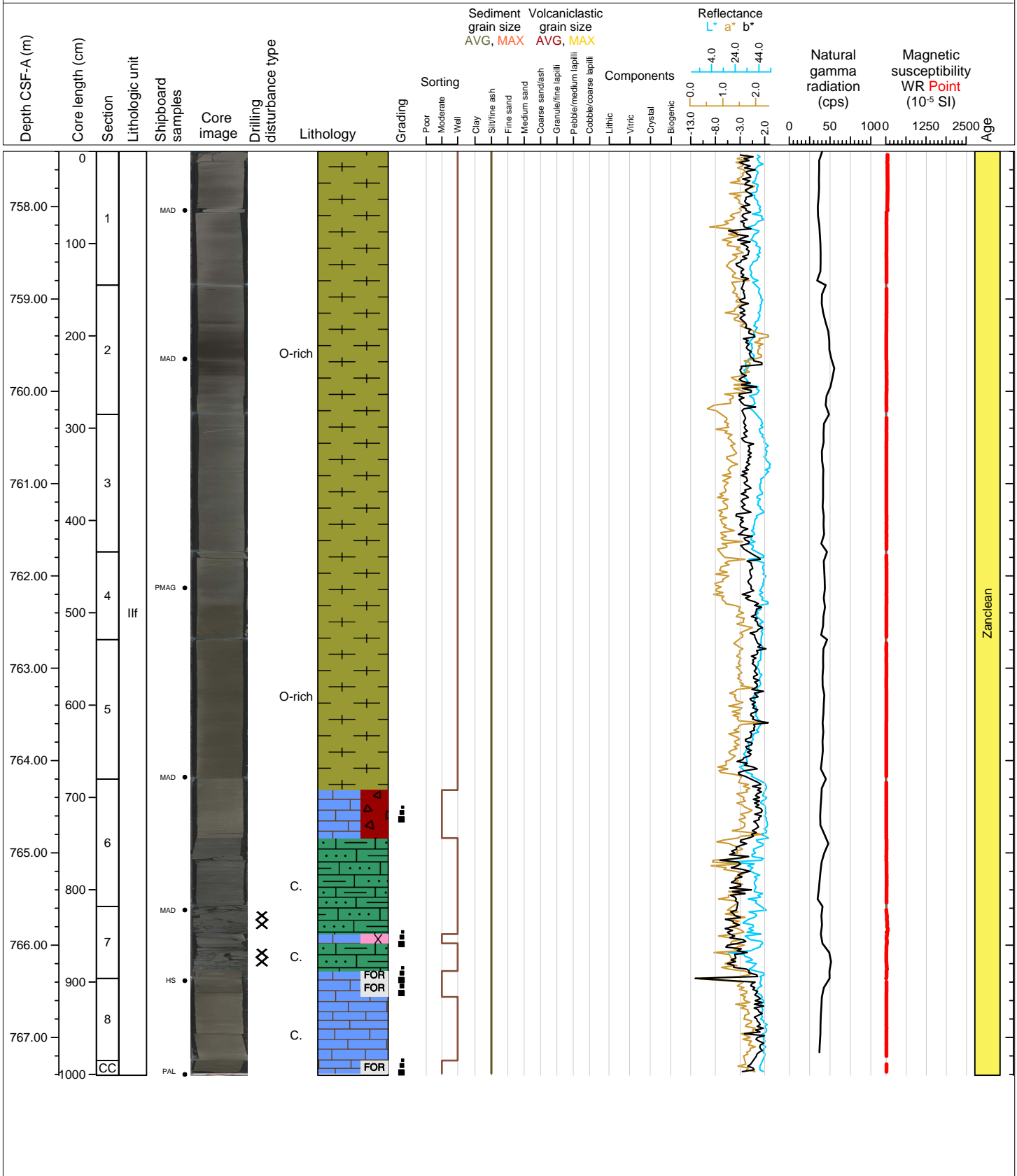
Hole 398-U1591C Core 56R, Interval 747.7-753.21 m (CSF-A)

Marl and organic rich mudstone.



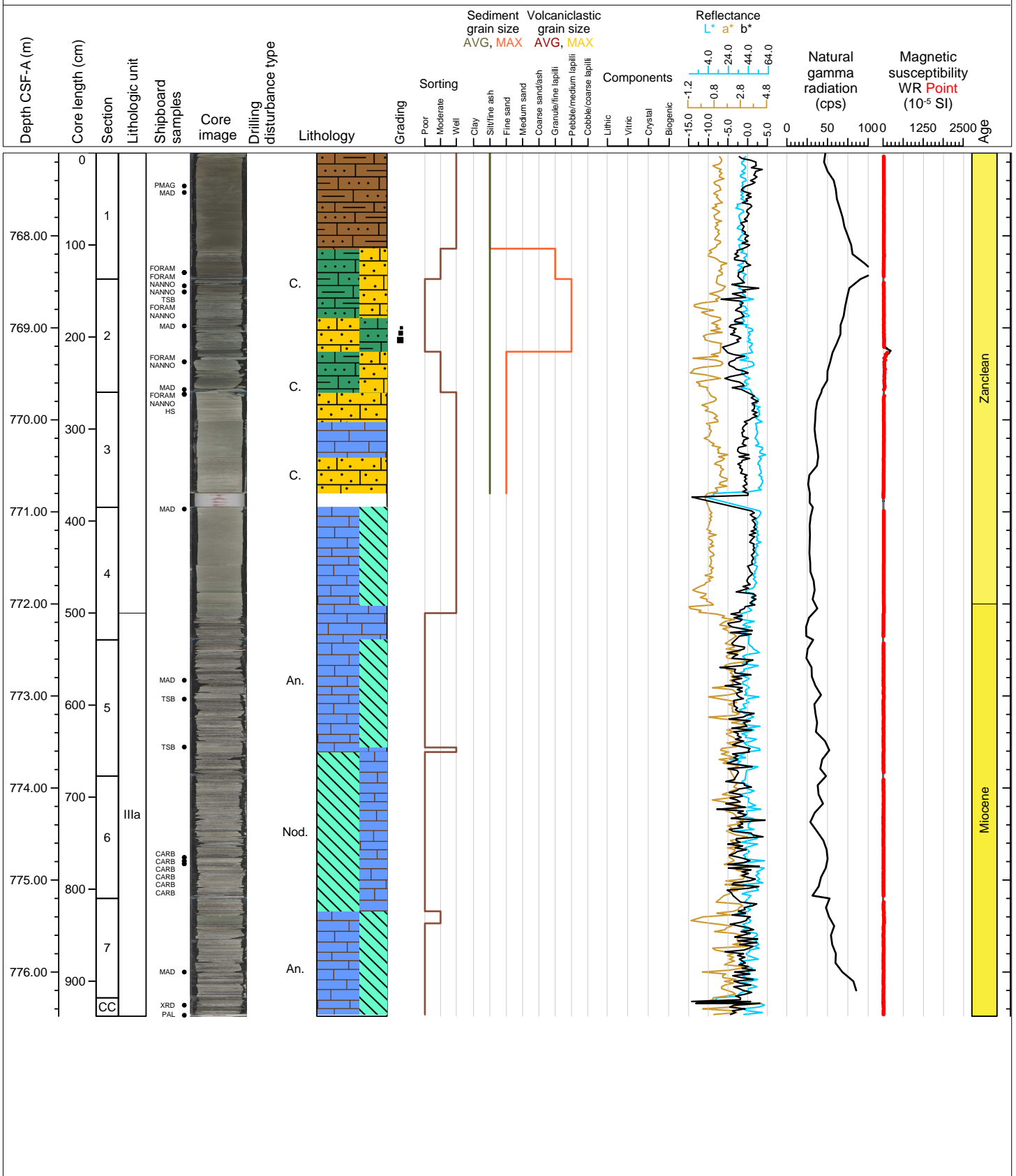
Hole 398-U1591C Core 57R, Interval 757.4-767.41 m (CSF-A)

Marl, organic rich marl, micrite, calcareous micrite, and calcareous mudstone.



Hole 398-U1591C Core 58R, Interval 767.1-776.48 m (CSF-A)

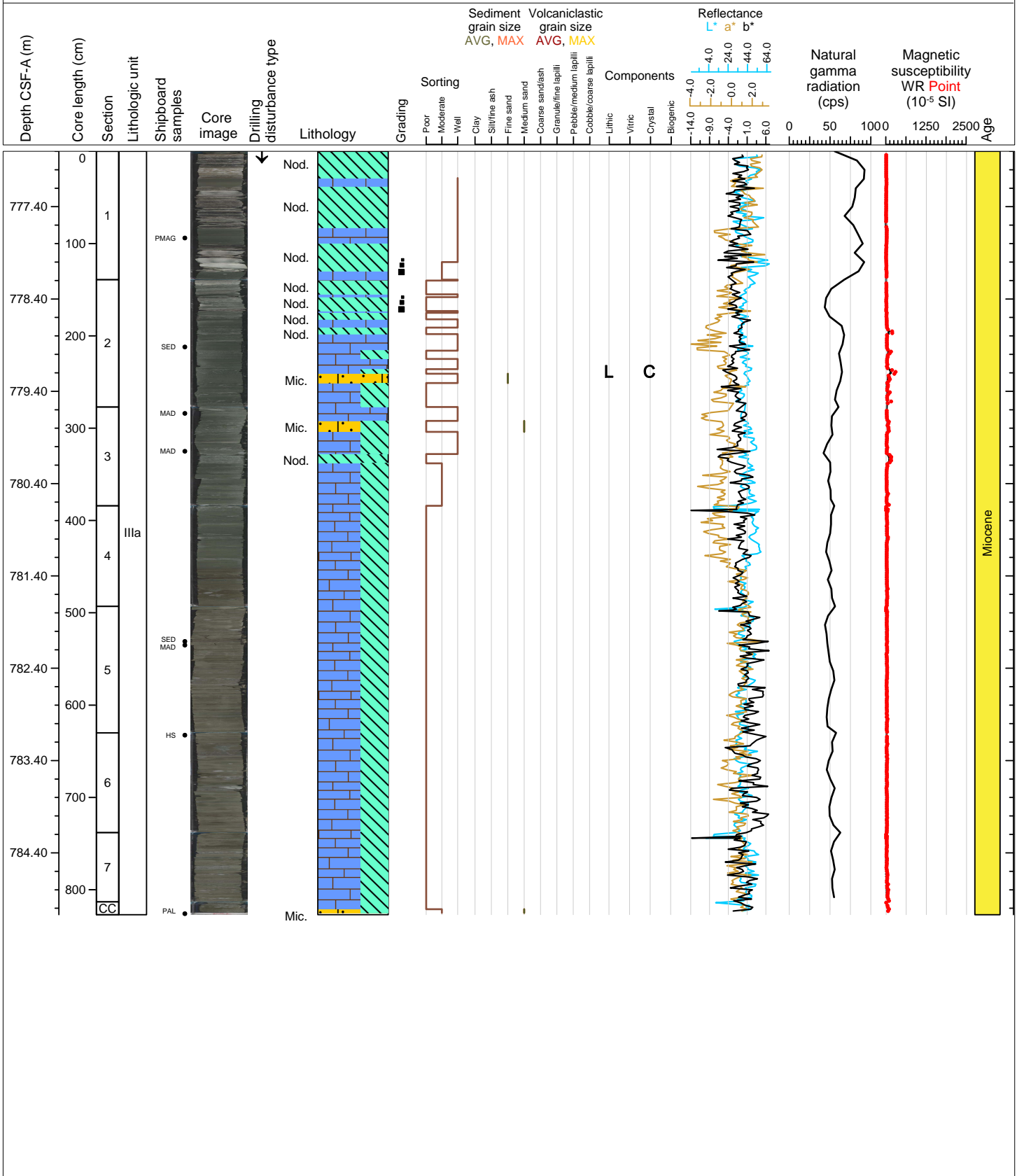
Calcareous mudstone, sandstone, calcareous sandstone, and micrite with anhydrite.





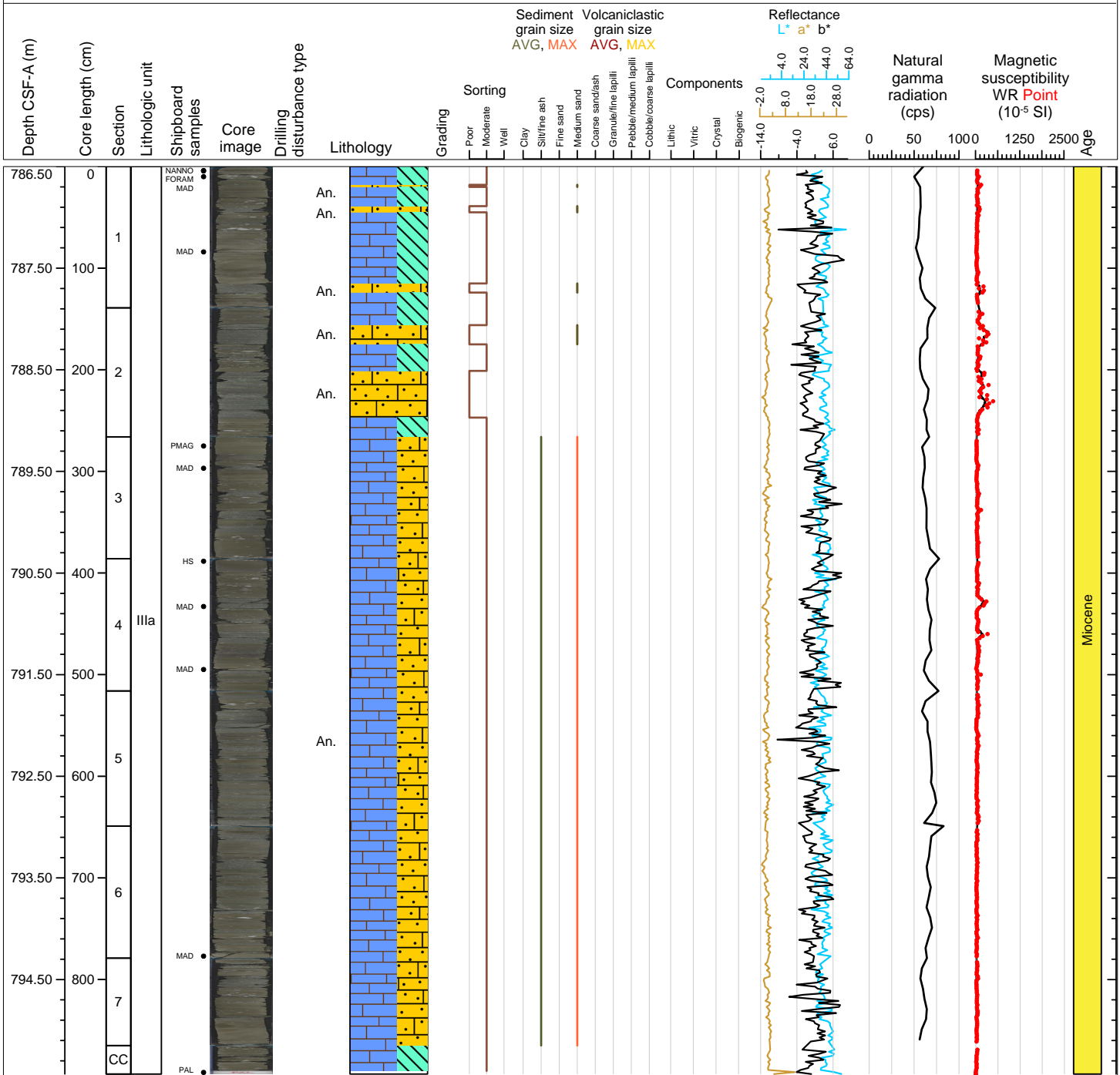
Hole 398-U1591C Core 59R, Interval 776.8-785.07 m (CSF-A)

Micrite, anhydrite, and micritic sandstone.



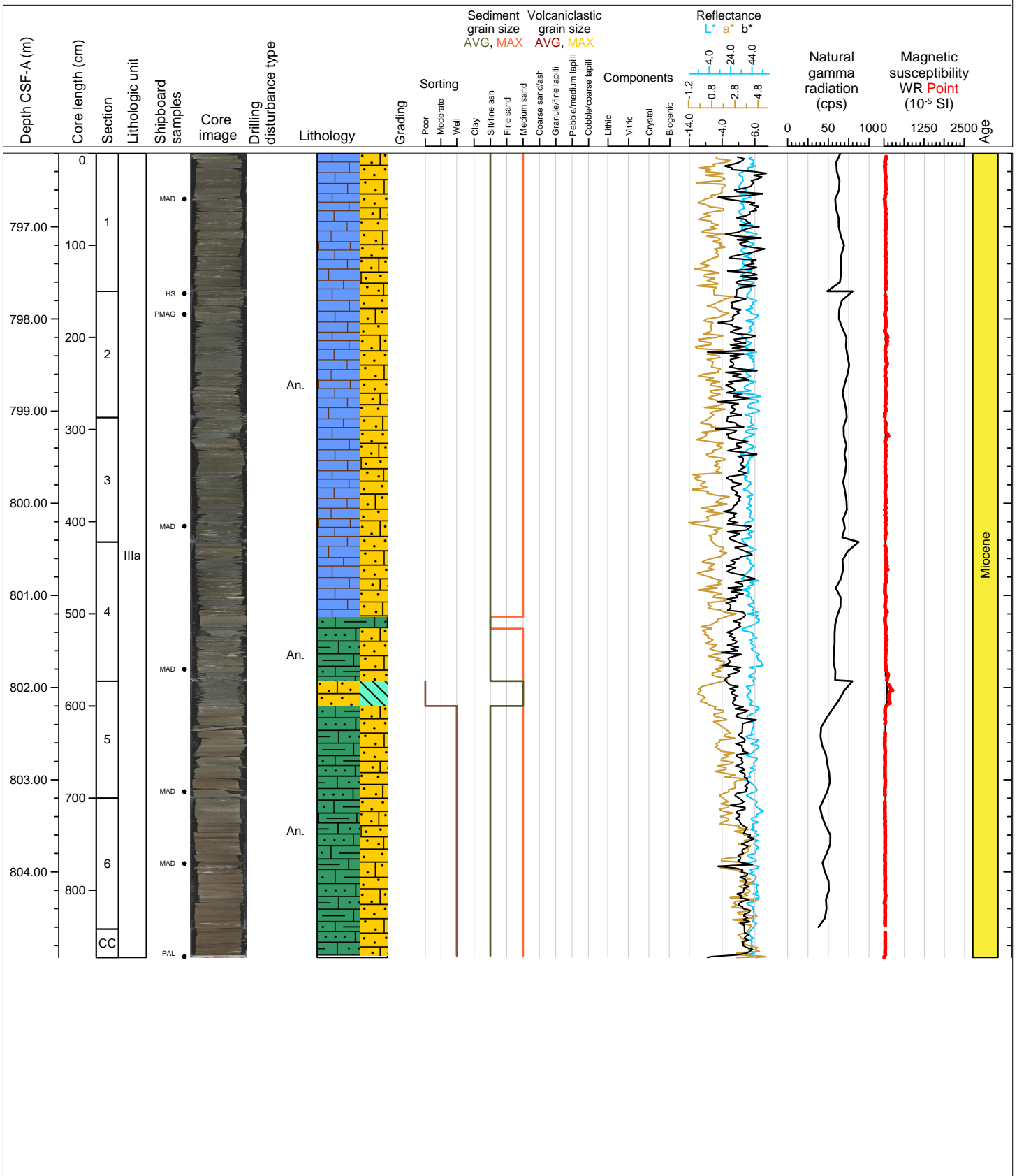
Hole 398-U1591C Core 60R, Interval 786.5-795.43 m (CSF-A)

Micrite with anhydrite, and anhydritic sandstone.



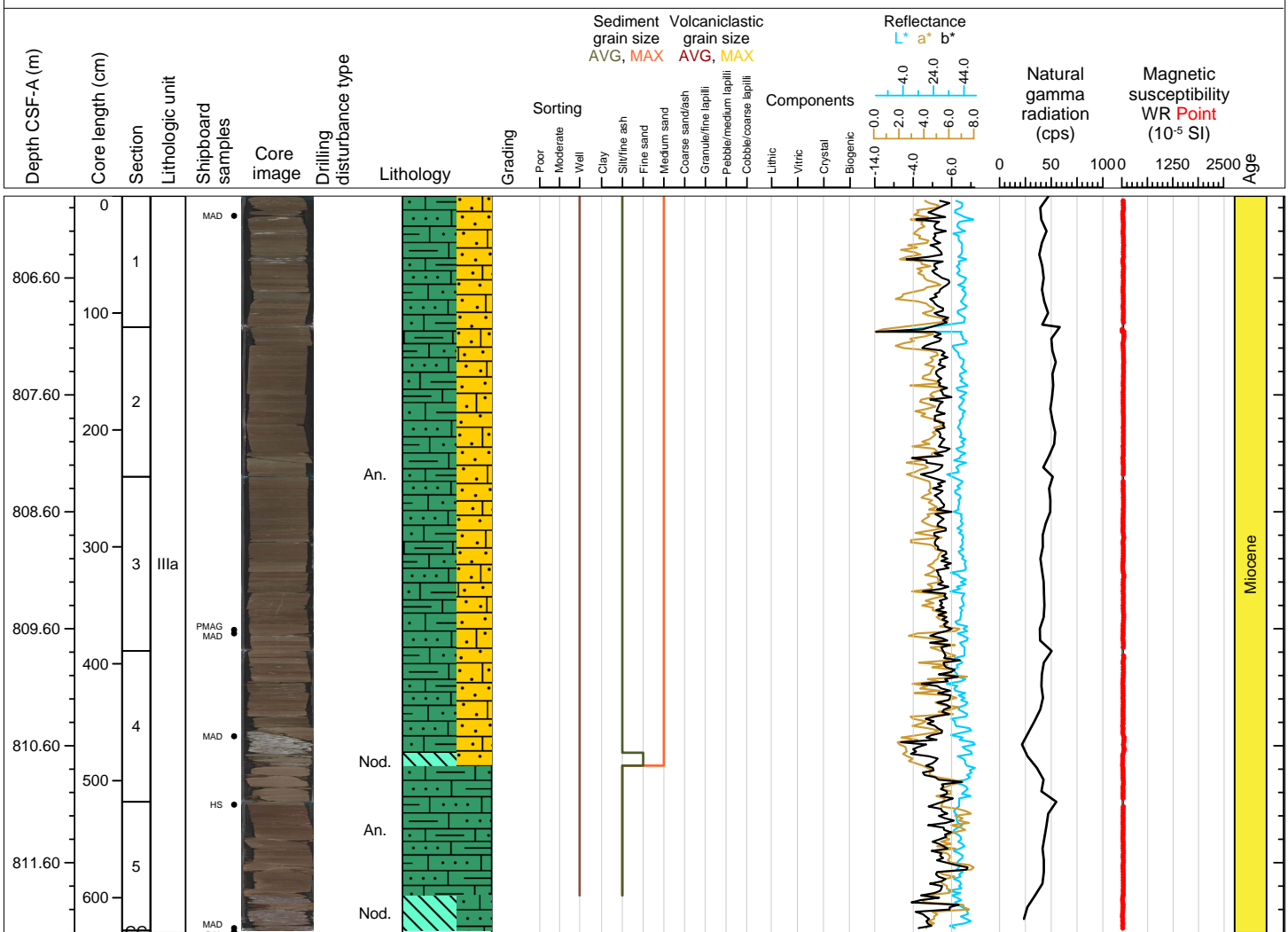
Hole 398-U1591C Core 61R, Interval 796.2-804.93 m (CSF-A)

Anhydritic micrite with sandstone, mudstone, and anhydritic mudstone with sandstone, and sandstone.



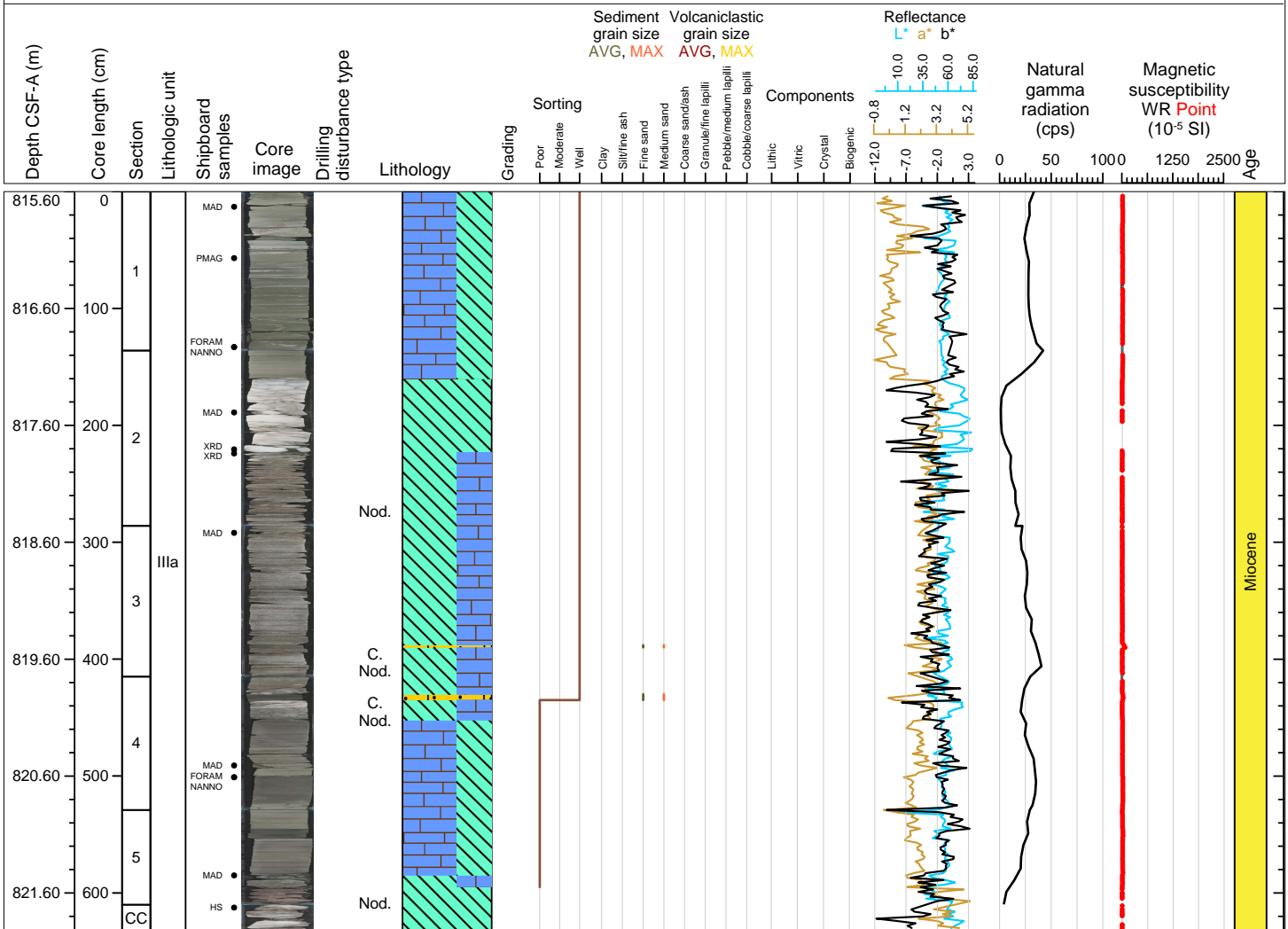
Hole 398-U1591C Core 62R, Interval 805.9-812.2 m (CSF-A)

Anhydritic mudstone with sandstone, anhydrite with mudstone, and anhydrite with sandstone.



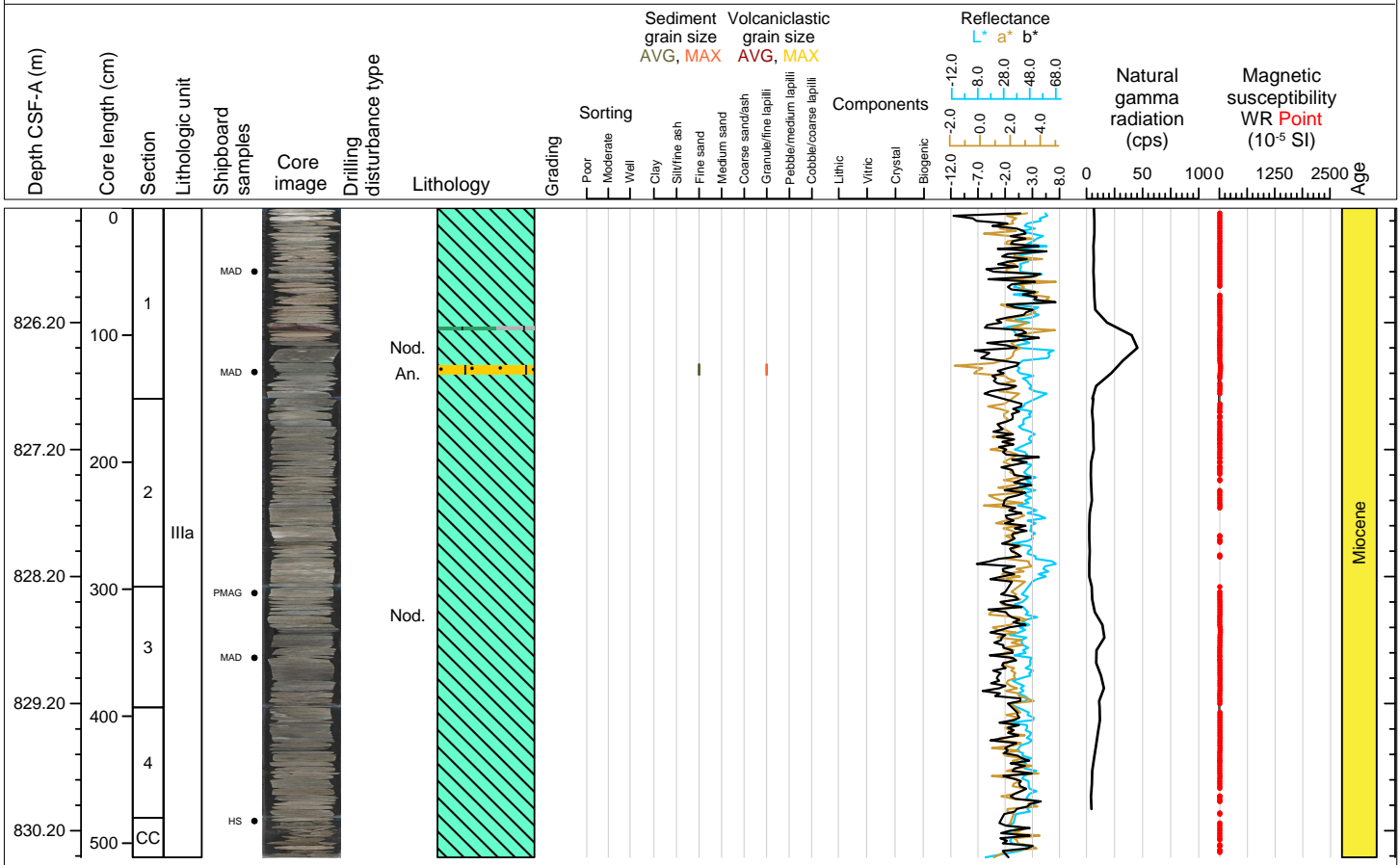
Hole 398-U1591C Core 63R, Interval 815.6-821.93 m (CSF-A)

Micrite with anhydrite, anhydrite, anhydrite with micrite, and calcareous sandstone.



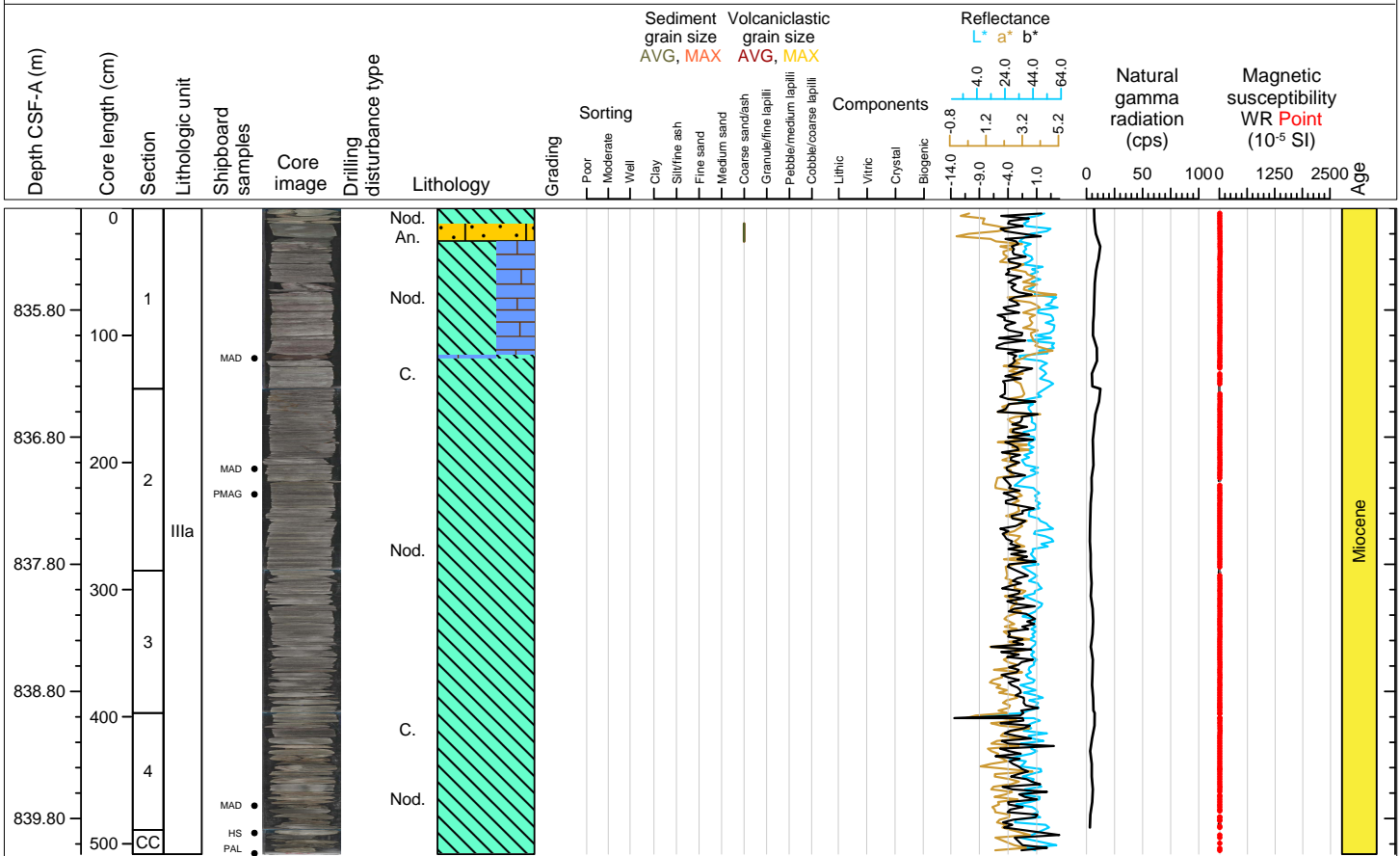
Hole 398-U1591C Core 64R, Interval 825.3-830.41 m (CSF-A)

Anhydrite, mudstone with chert and anhydritic sandstone.



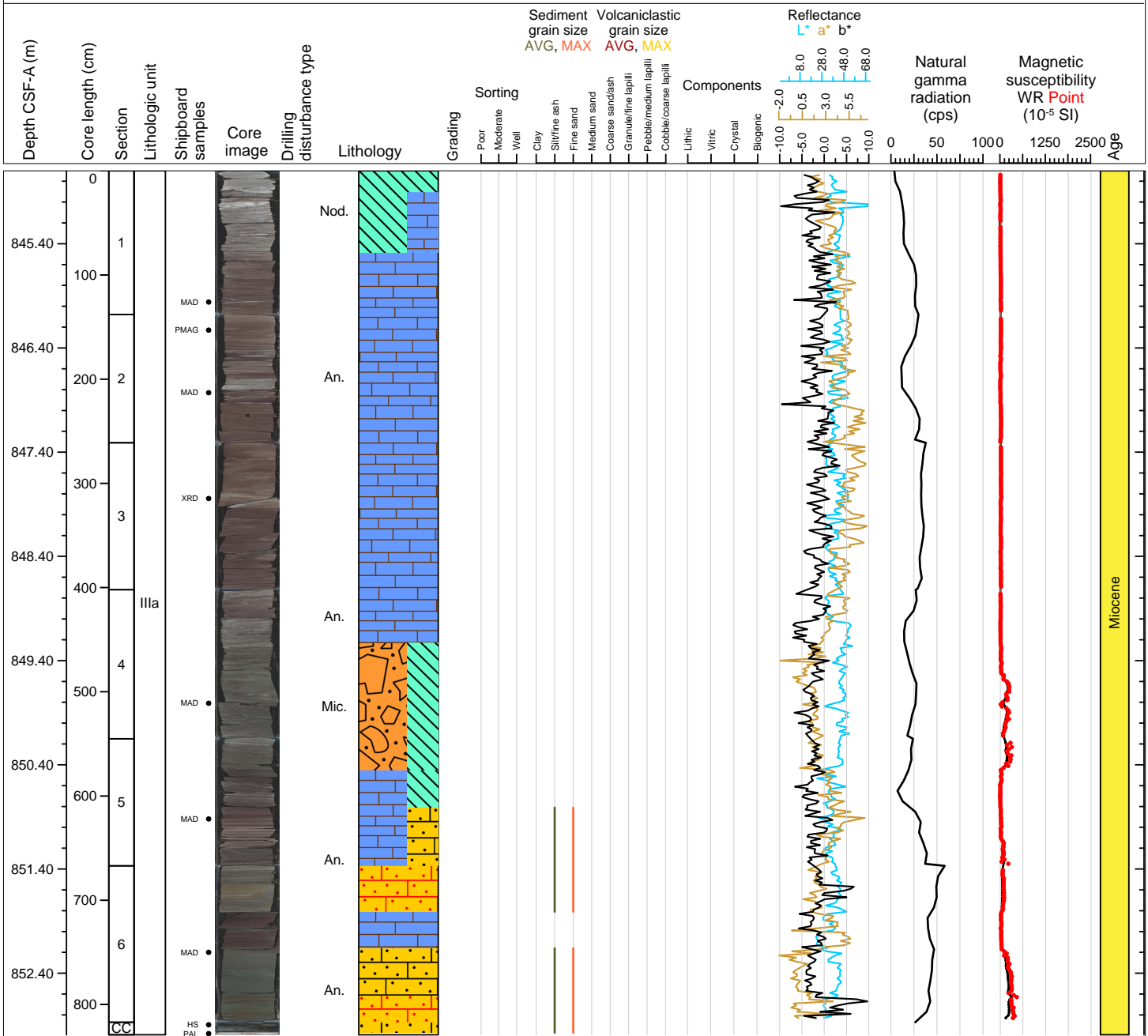
Hole 398-U1591C Core 65R, Interval 835.0-840.08 m (CSF-A)

Anhydrite, anhydritic sandstone, anhydrite with micrite, micrite with anhydrite and calcareous anhydrite.



Hole 398-U1591C Core 66R, Interval 844.7-852.99 m (CSF-A)

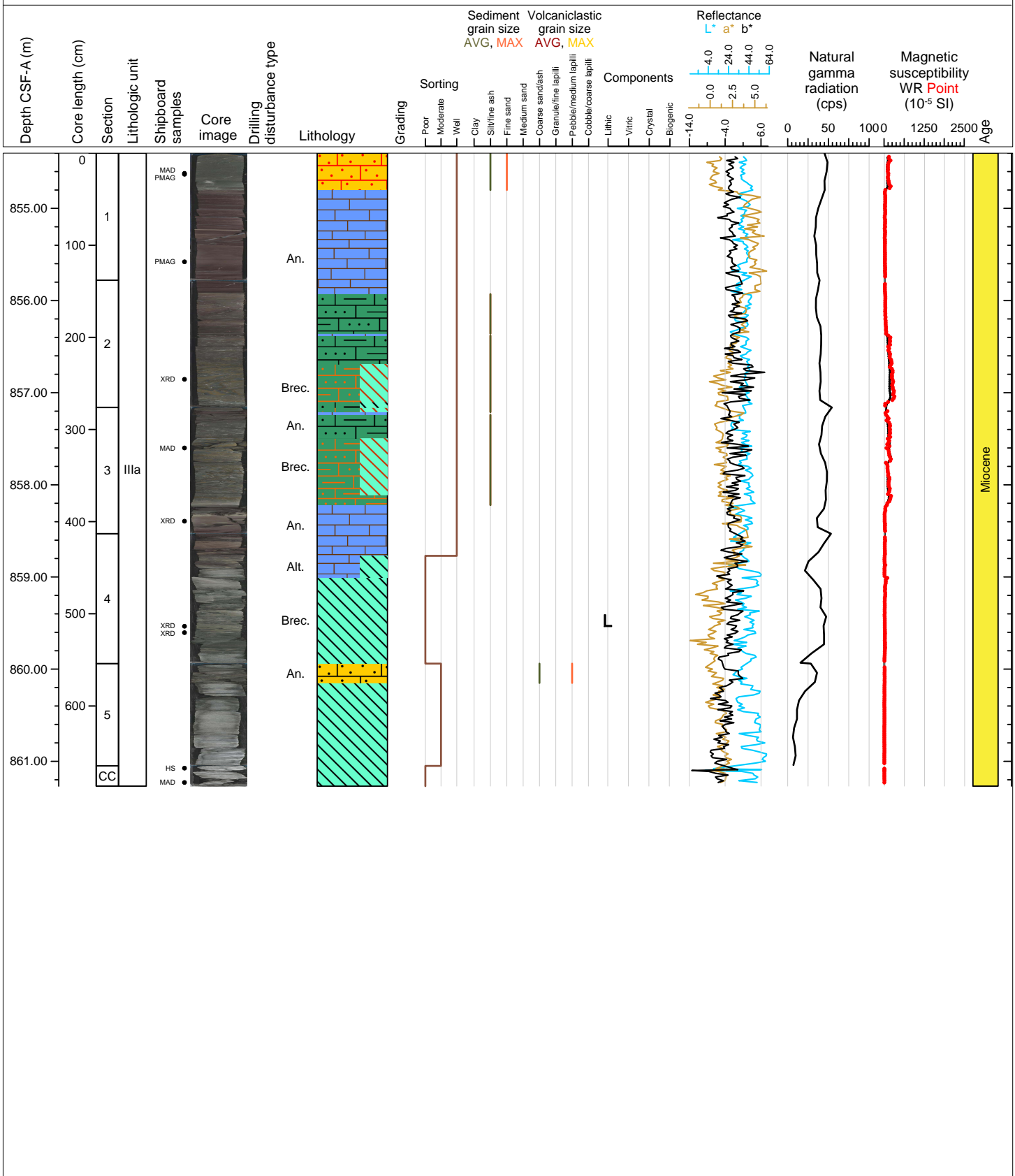
Anhydrite, anhydrite with micrite, micrite, anhydritic micrite, micritic breccia and anhydritic sandstone.





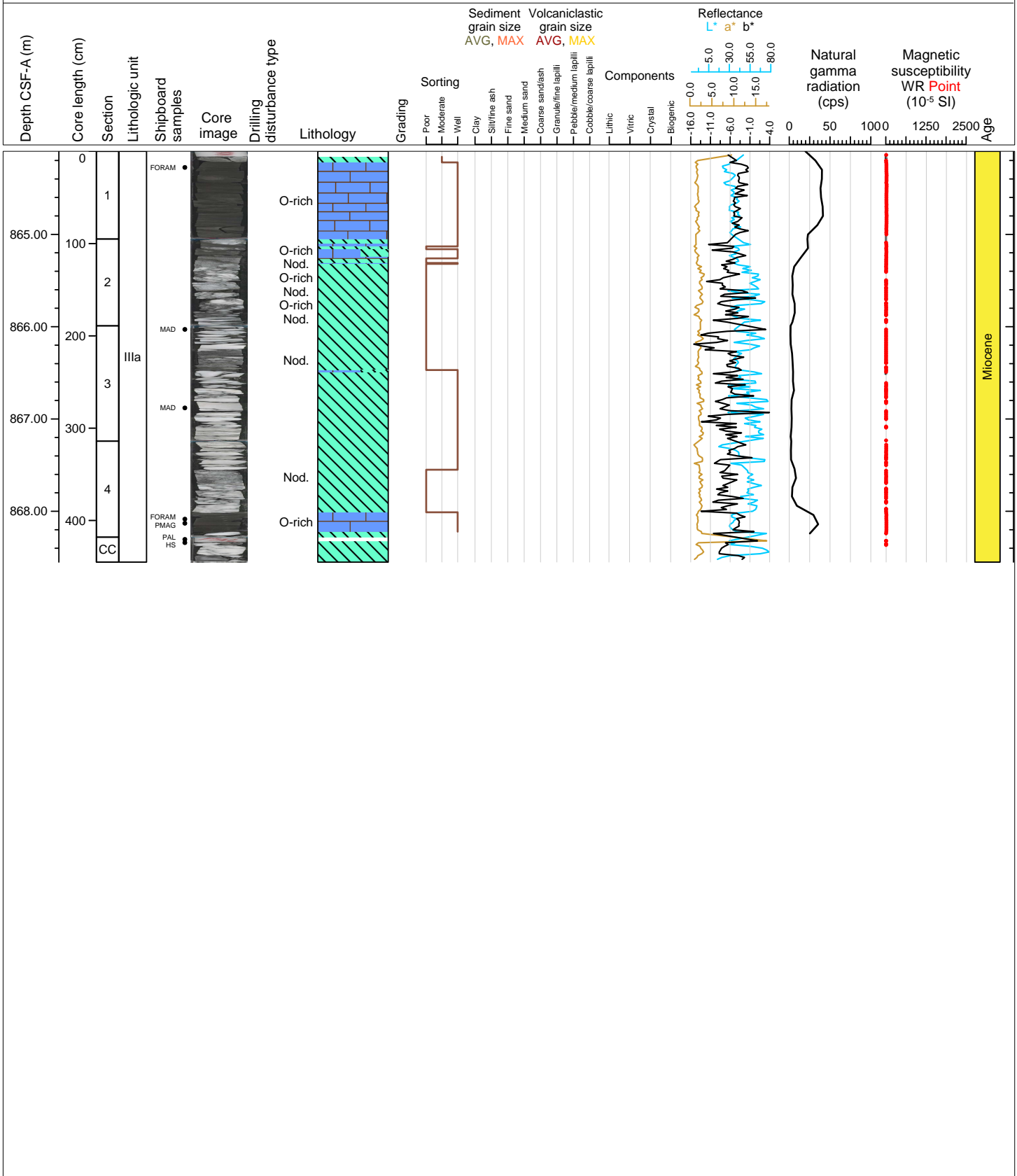
Hole 398-U1591C Core 67R, Interval 854.4-861.27 m (CSF-A)

Anhydritic sandstone, anhydritic micrite, anhydritic mudstone, brecciated mudstone with anhydrite and brecciated anhydrite.



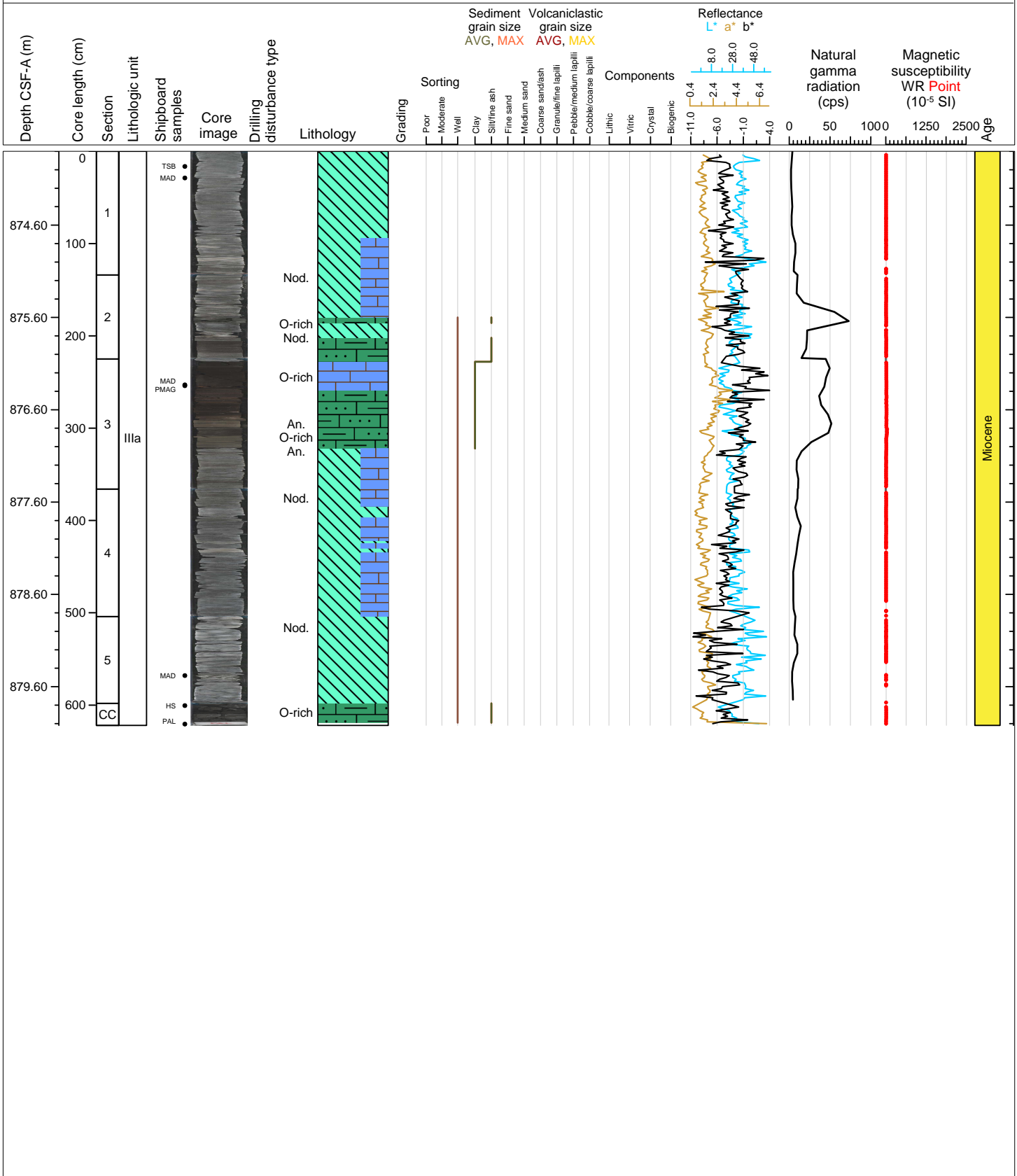
Hole 398-U1591C Core 68R, Interval 864.1-868.55 m (CSF-A)

Anhydrite, organic rich micrite, and micrite with anhydrite.



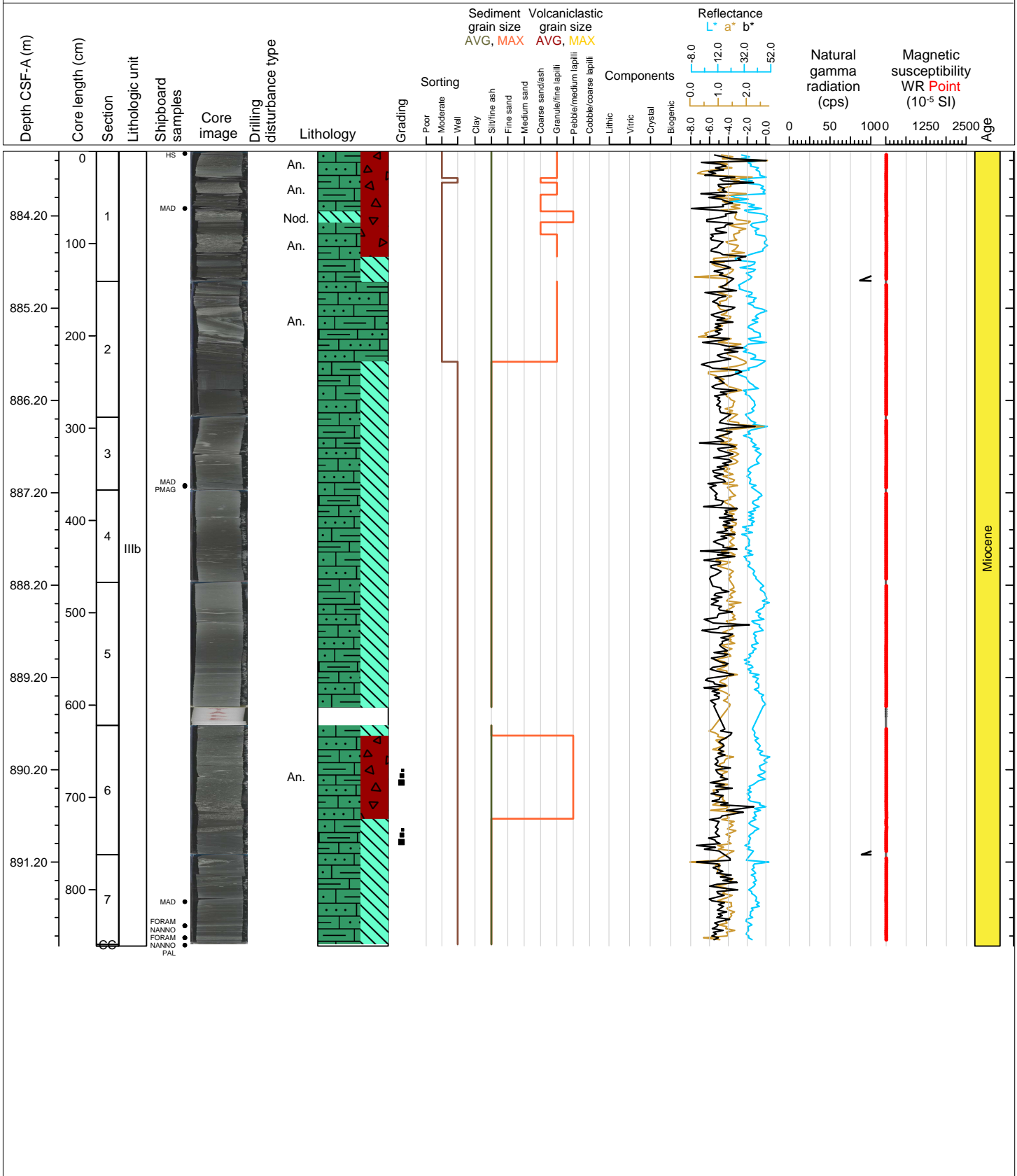
Hole 398-U1591C Core 69R, Interval 873.8-880.02 m (CSF-A)

Anhydrite, anhydrite with micrite, organic rich mudstone, organic rich micrite, and anhydritic mud.



Hole 398-U1591C Core 70R, Interval 883.5-892.11 m (CSF-A)

Anhydritic mudstone, mudstone, anhydrite, and mudstone with anhydrite.



Hole 398-U1591C Core 71R, Interval 893.2-902.67 m (CSF-A)

Anhydritic mudstone, micrite, anhydrite and anhydritic micrite.

