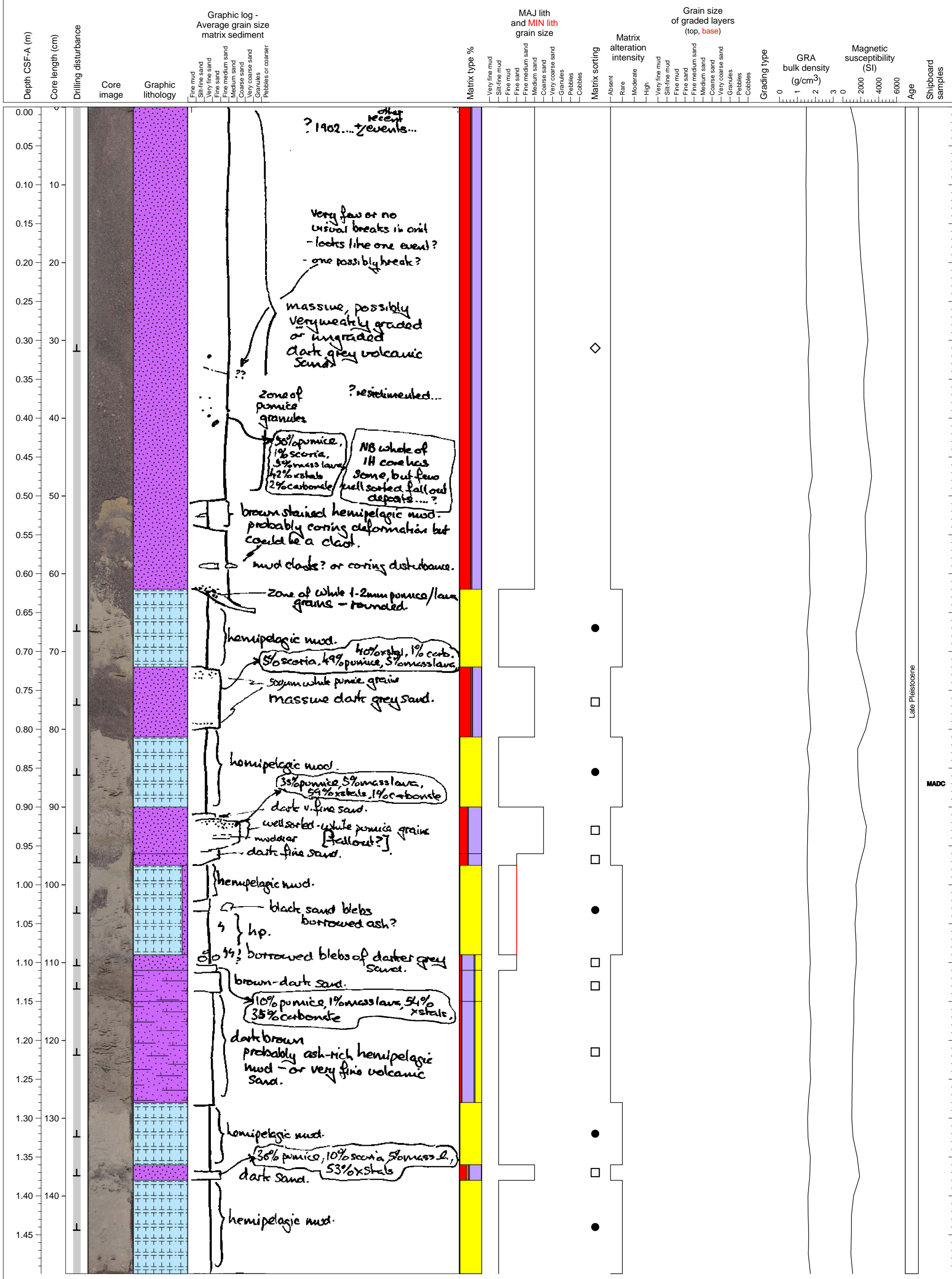
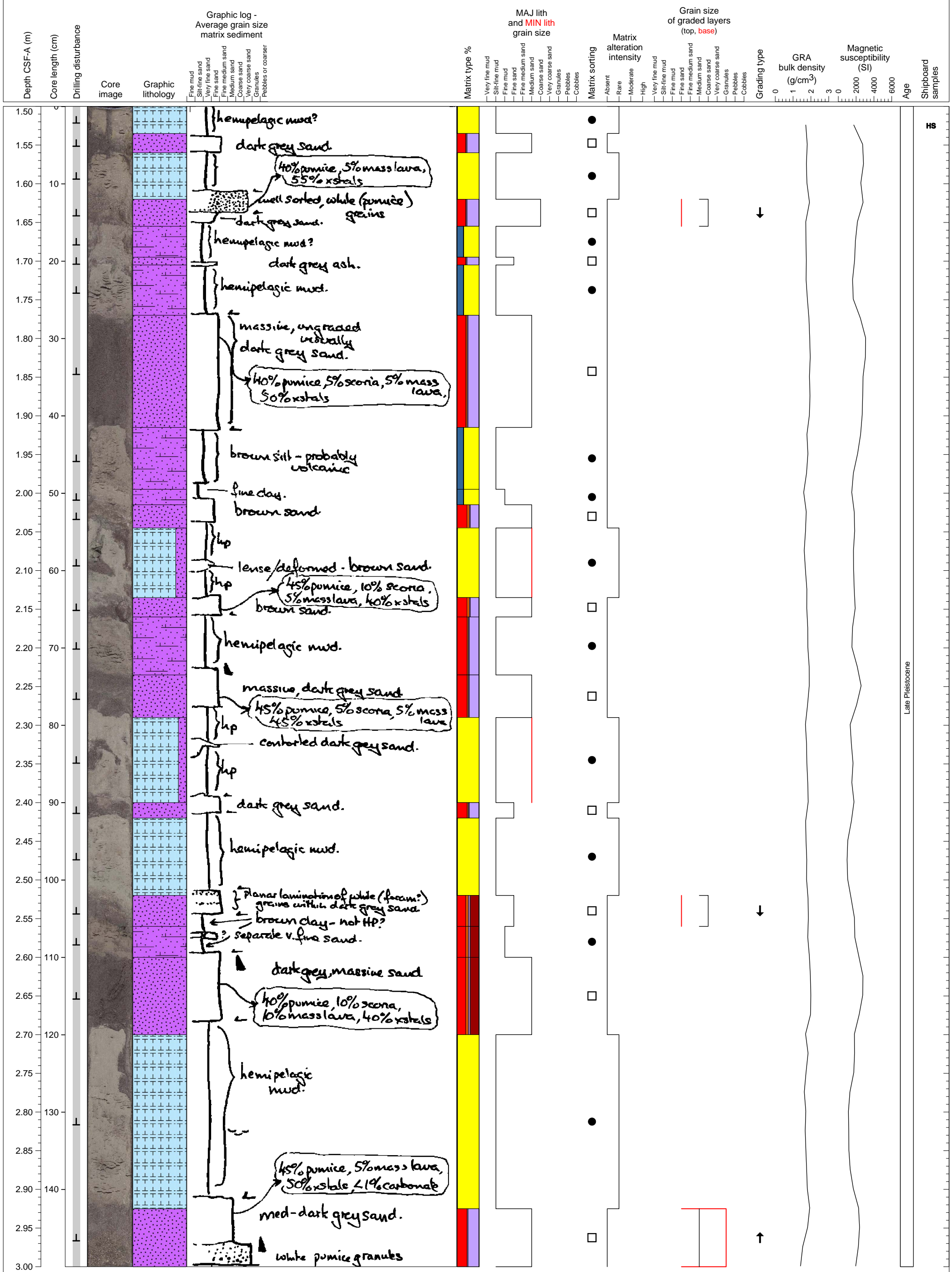


Intercalation of volcanoclastic sand-mud units and hemipelagic clays.

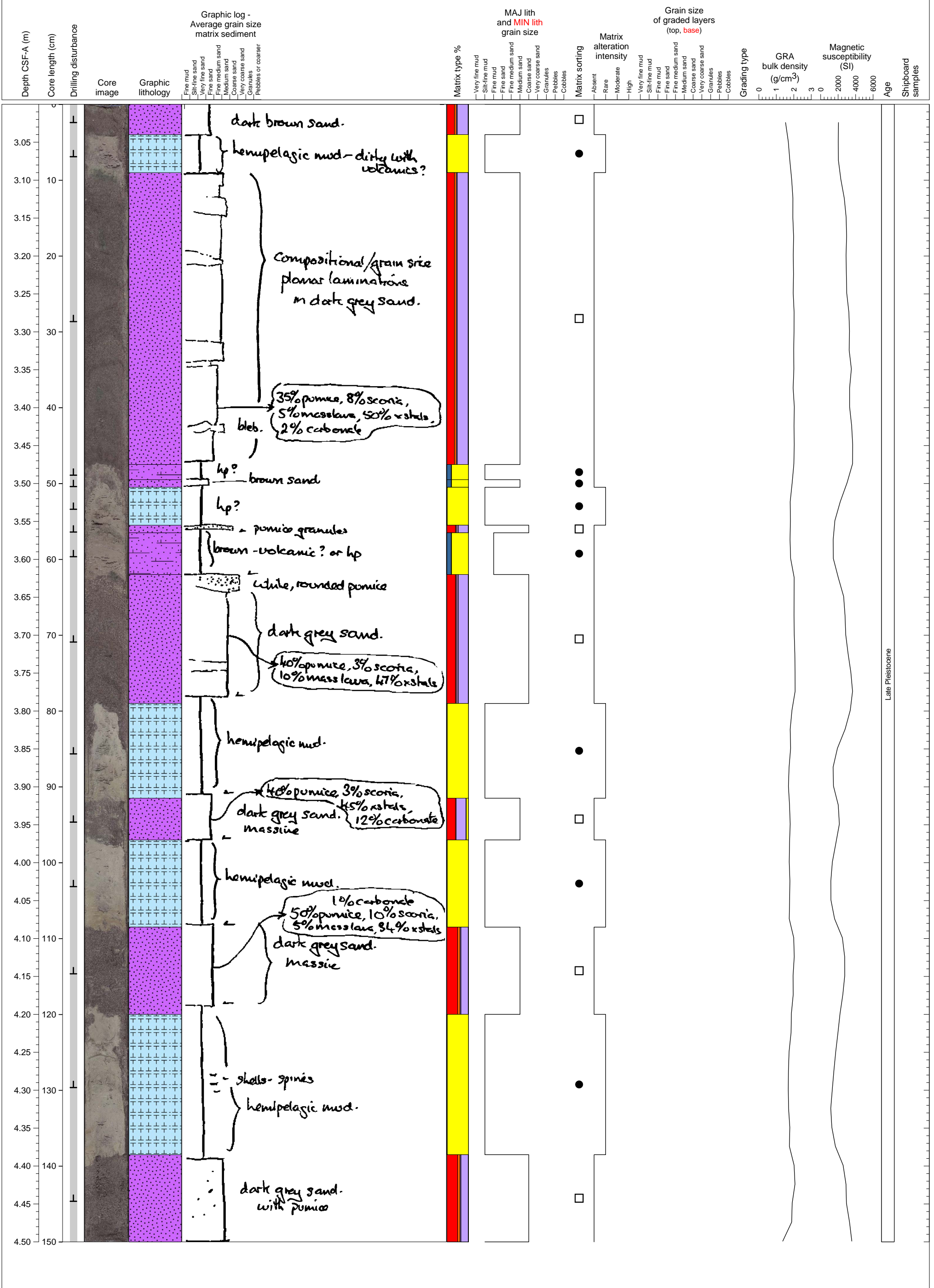


Intercalation of volcanoclastic sand-mud units and hemipelagic clays.

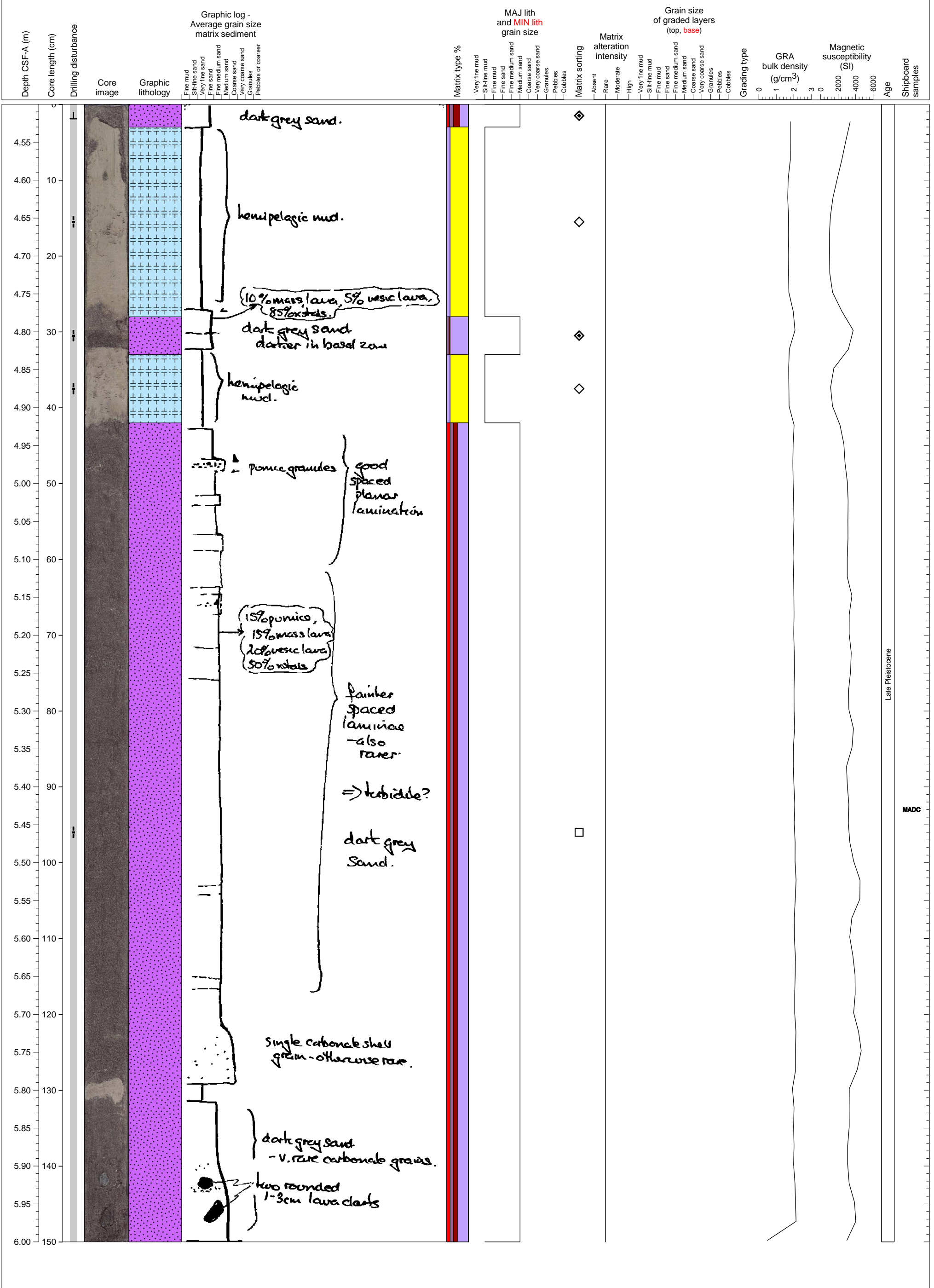




Intercalation of volcanoclastic mud-sand units and hemipelagic clays.

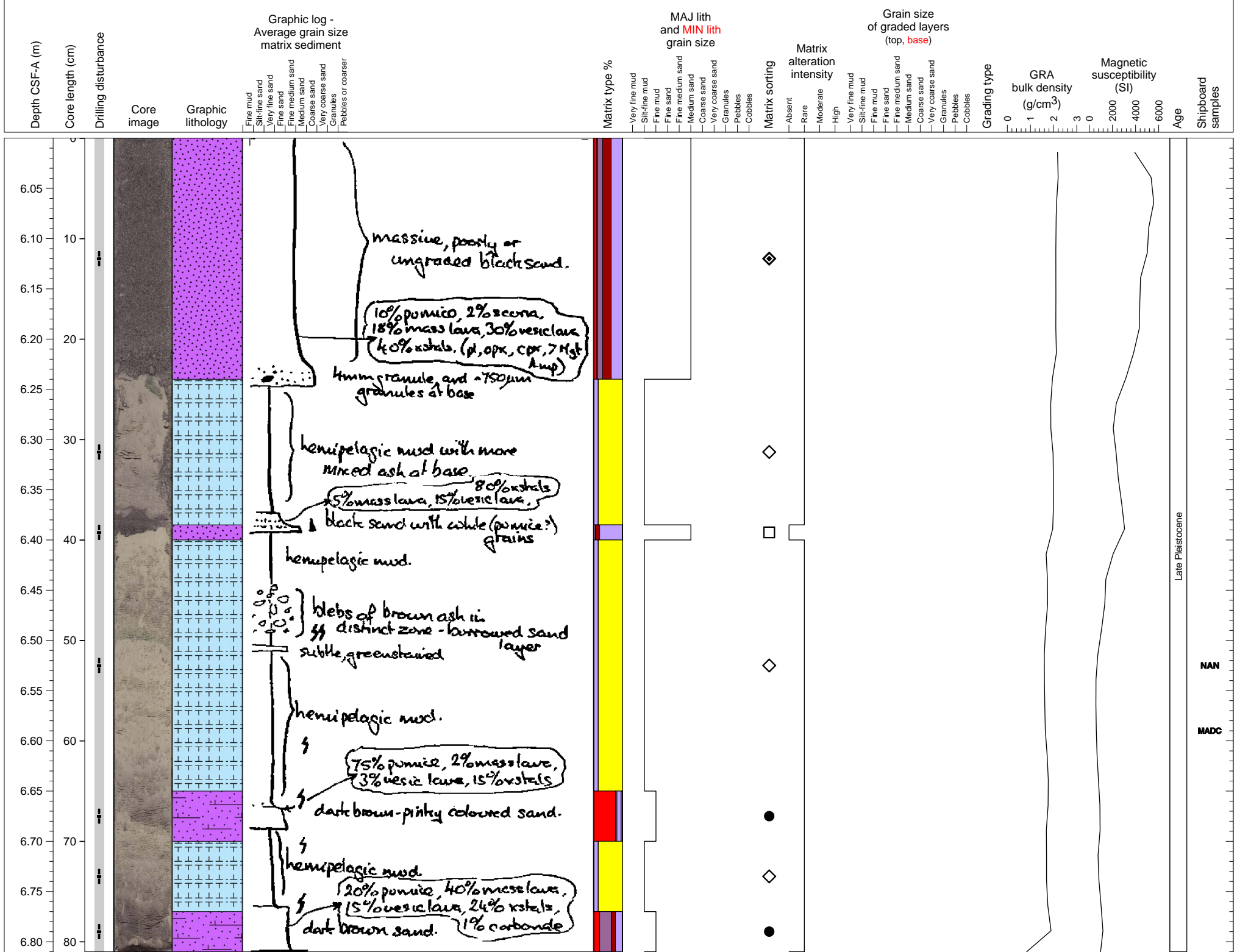


Volcaniclastic sand units interlayered with hemipelagic clay.

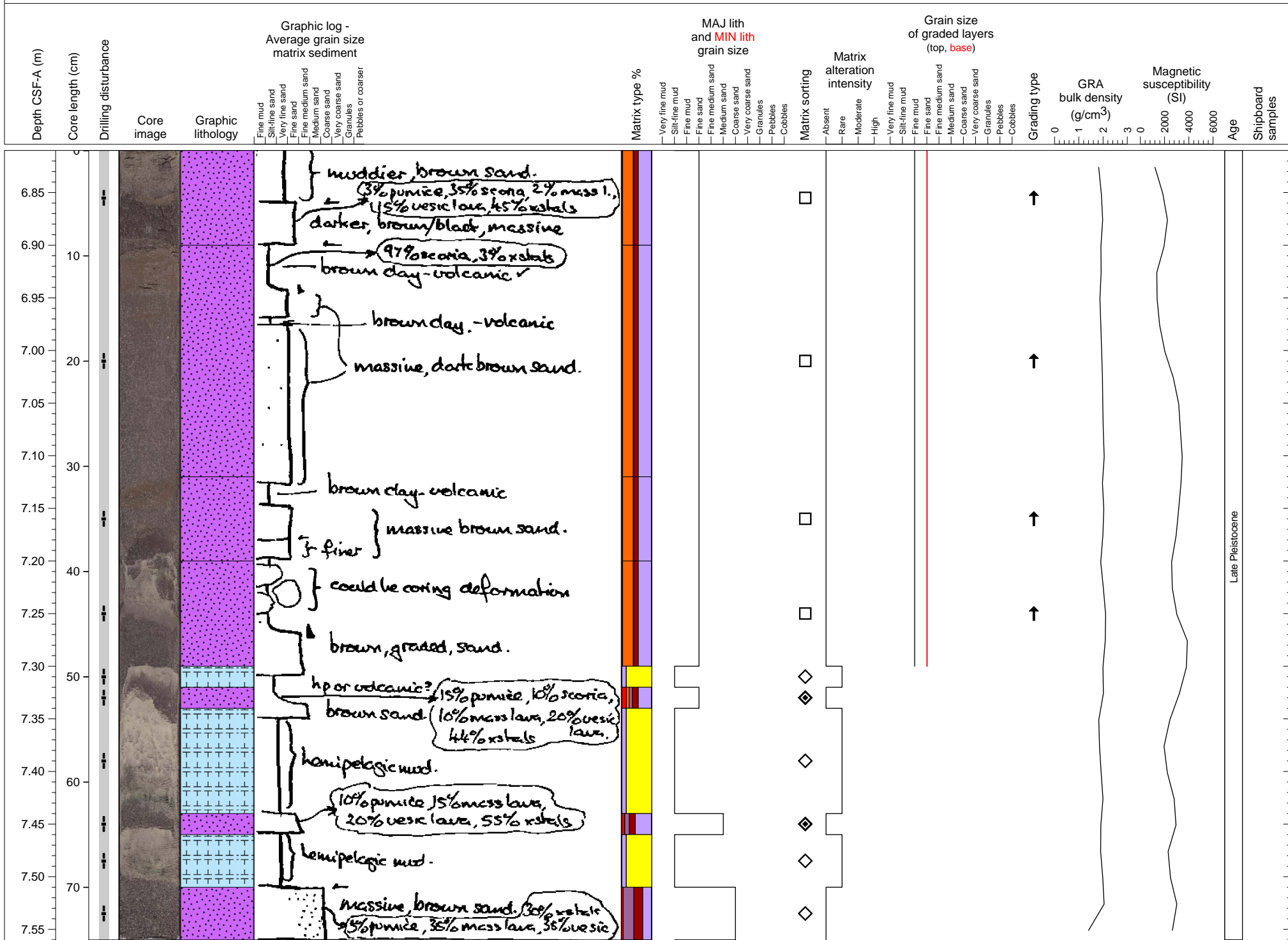




Volcaniclastic sand and mud units interlayered with hemipelagic clay.



Volcaniclastic sand-mud units, many of which are normally graded, interlayered with hemipelagic mud.

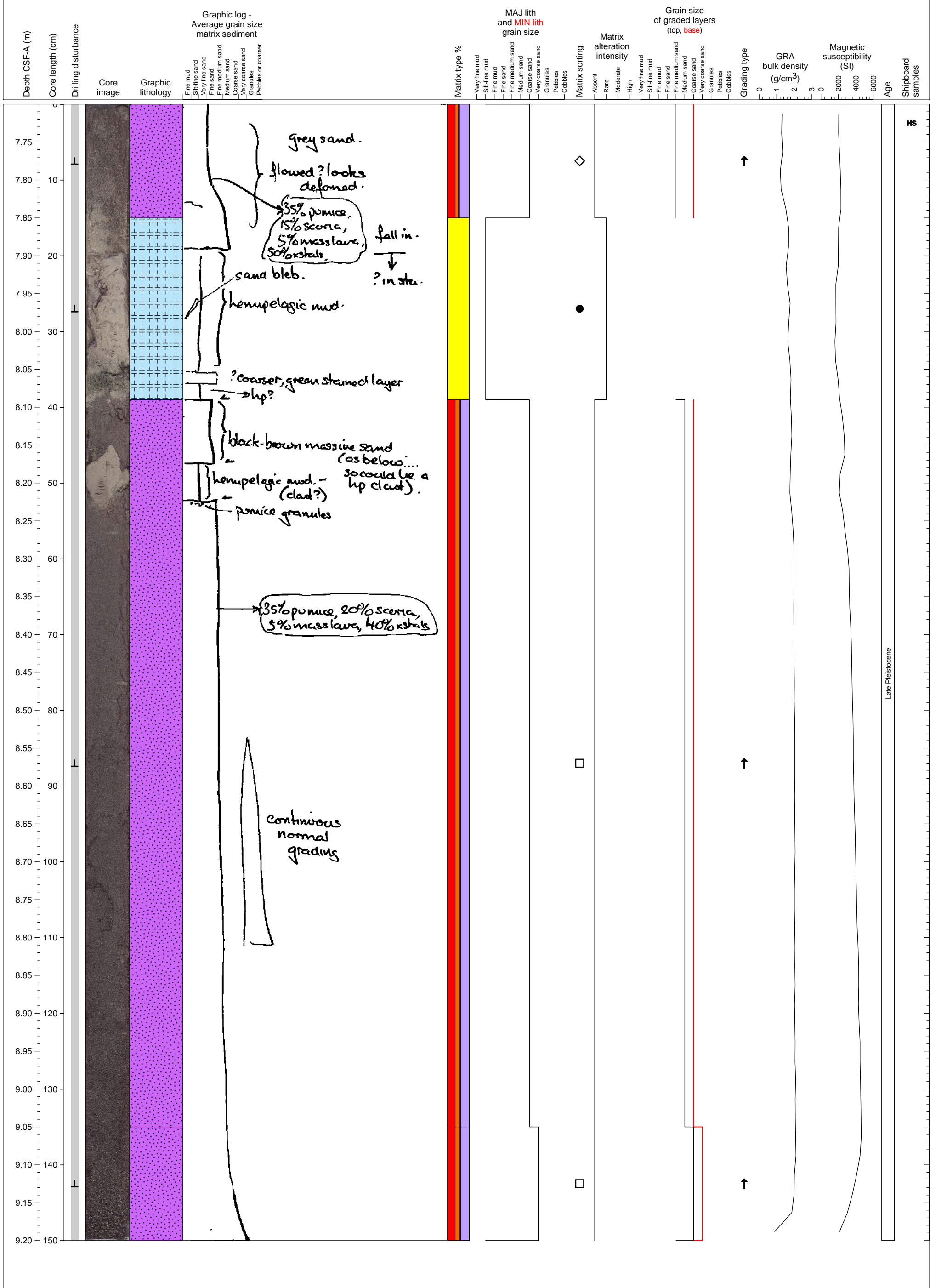




Coarse-grained volcanoclastic sand. PAL sample from section base.

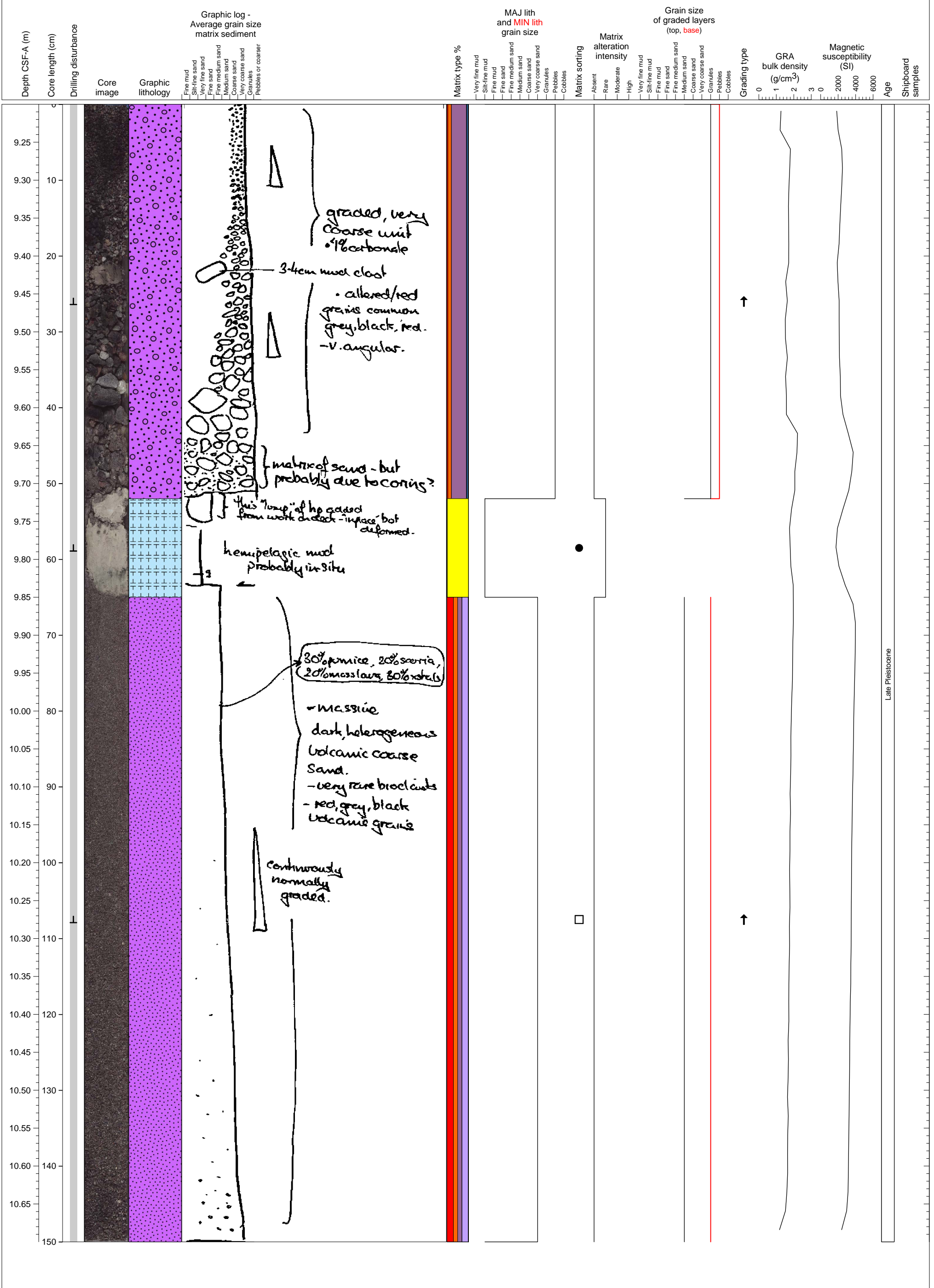


Massive normally graded volcanoclastic turbidite with hemipelagic clay and volcanoclastic sand units at the top of the section.



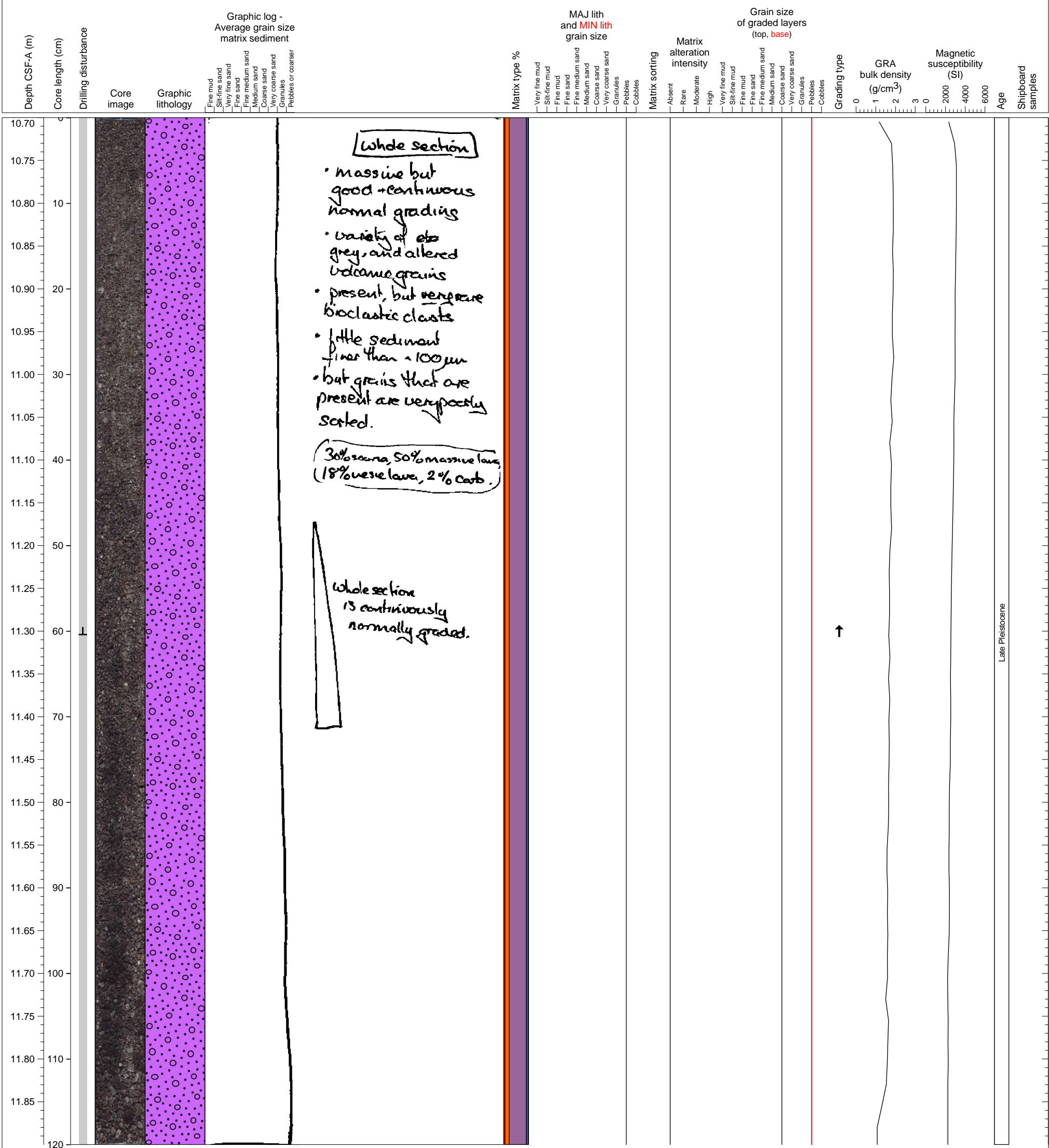


Normally graded massive volcanoclastic gravel and coarse sand units interlayered with hemipelagic clay.



Late Pleistocene

Normally graded volcaniclastic gravel.



**Whole section**

- massive but good + continuous normal grading
- variety of etc grey, and altered volcanic grains
- present, but ~~some~~ bioclastic clasts
- little sediment finer than ~100µm
- but grains that are present are very poorly sorted.

30% sarna, 50% massive lava, 18% vesic lava, 2% carb.

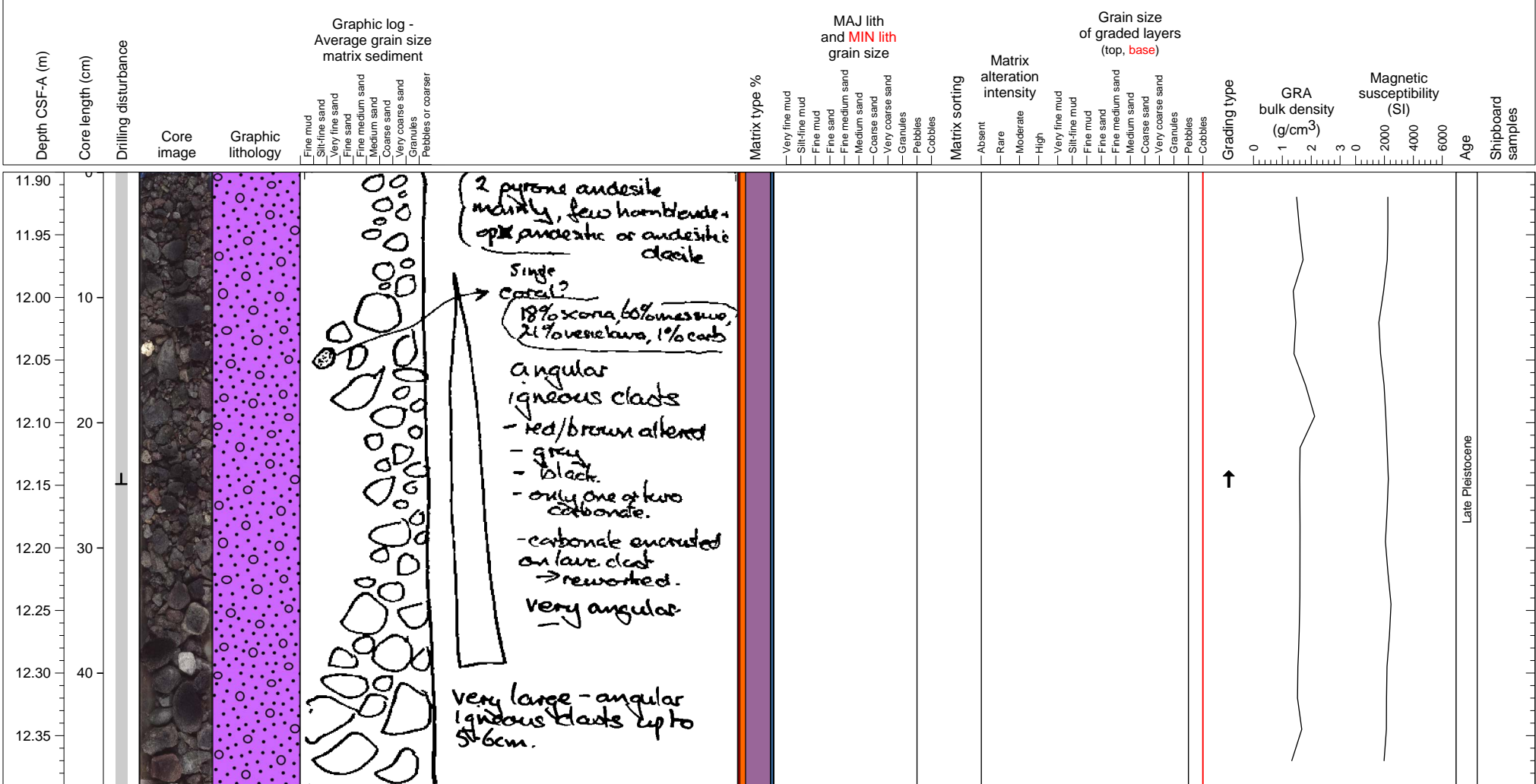
Whole section is continuously normally graded.

↑

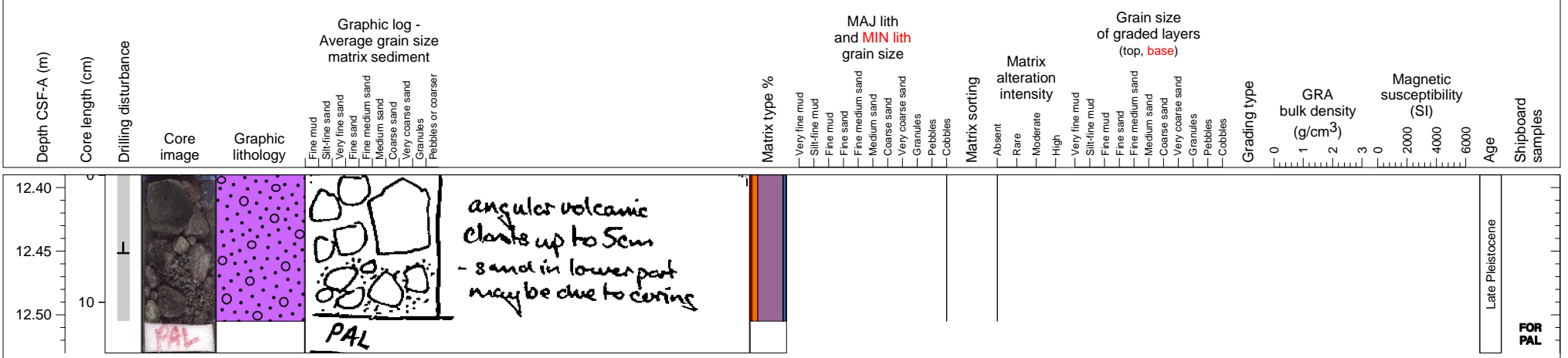
Late Pleistocene



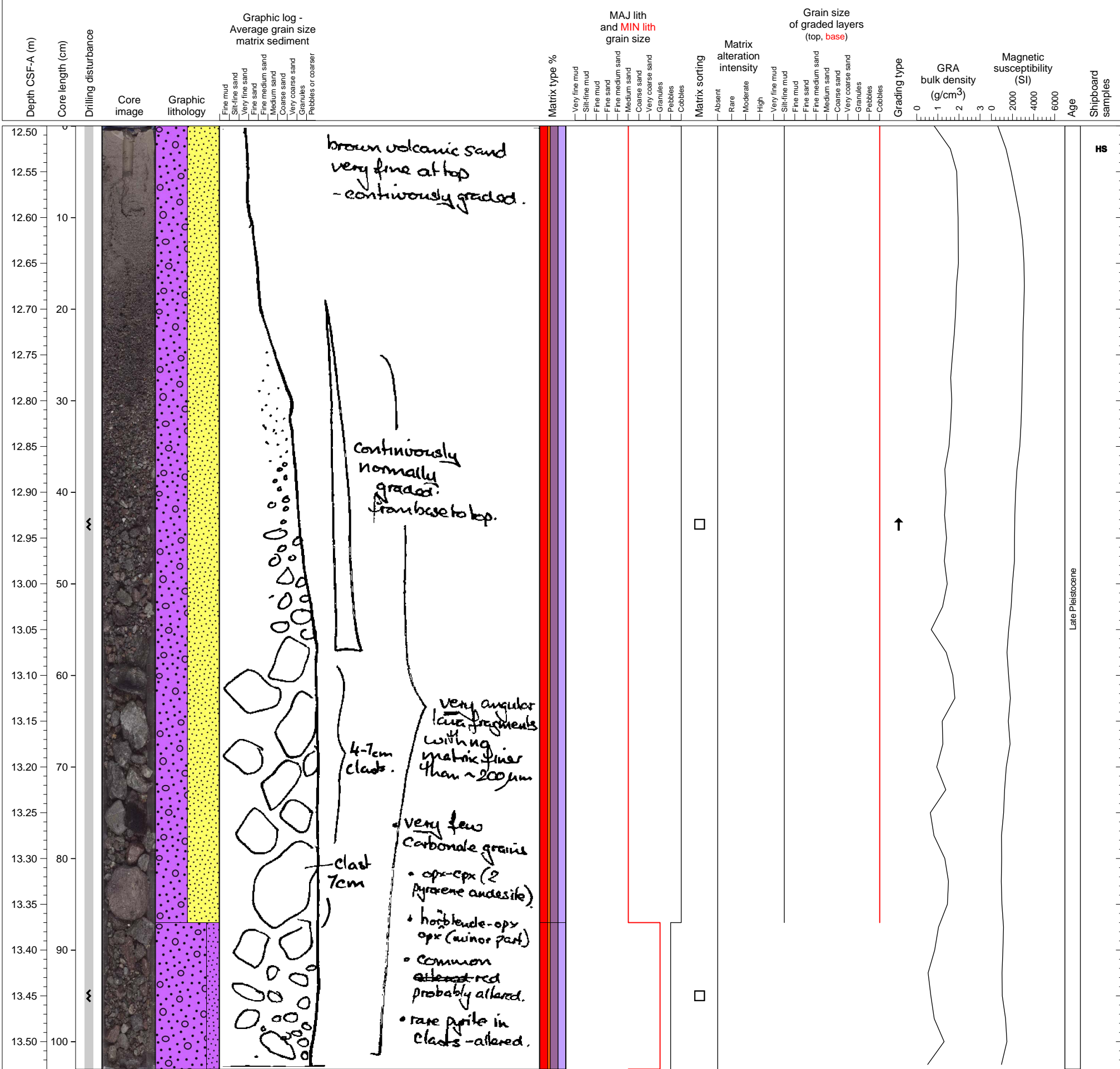
Normally graded volcaniclastic gravel.



Volcaniclastic gravel. PAL sample from section base.

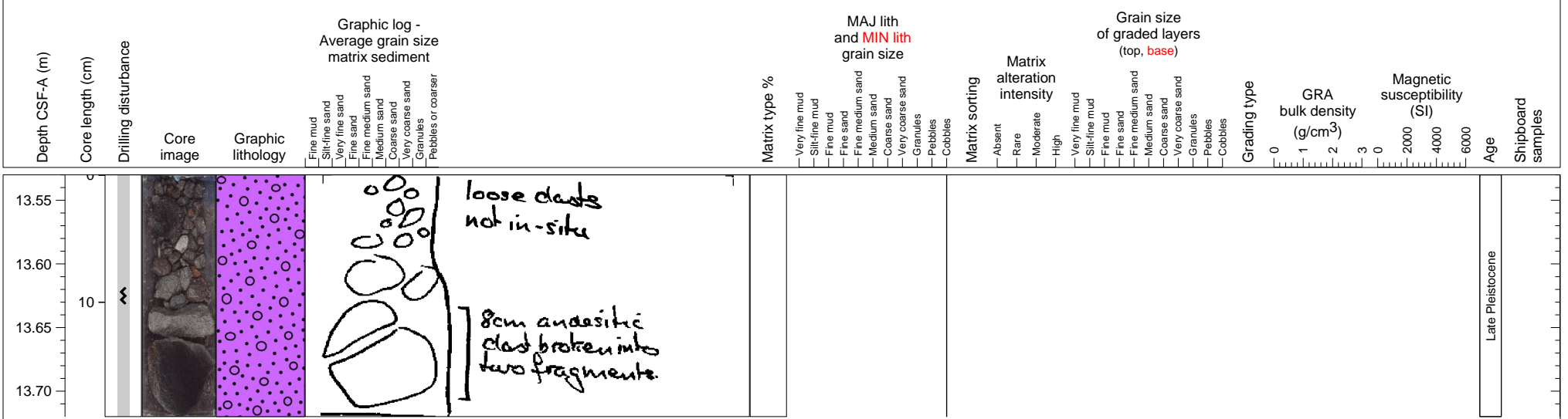


Normally graded volcanoclastic gravel and sand.

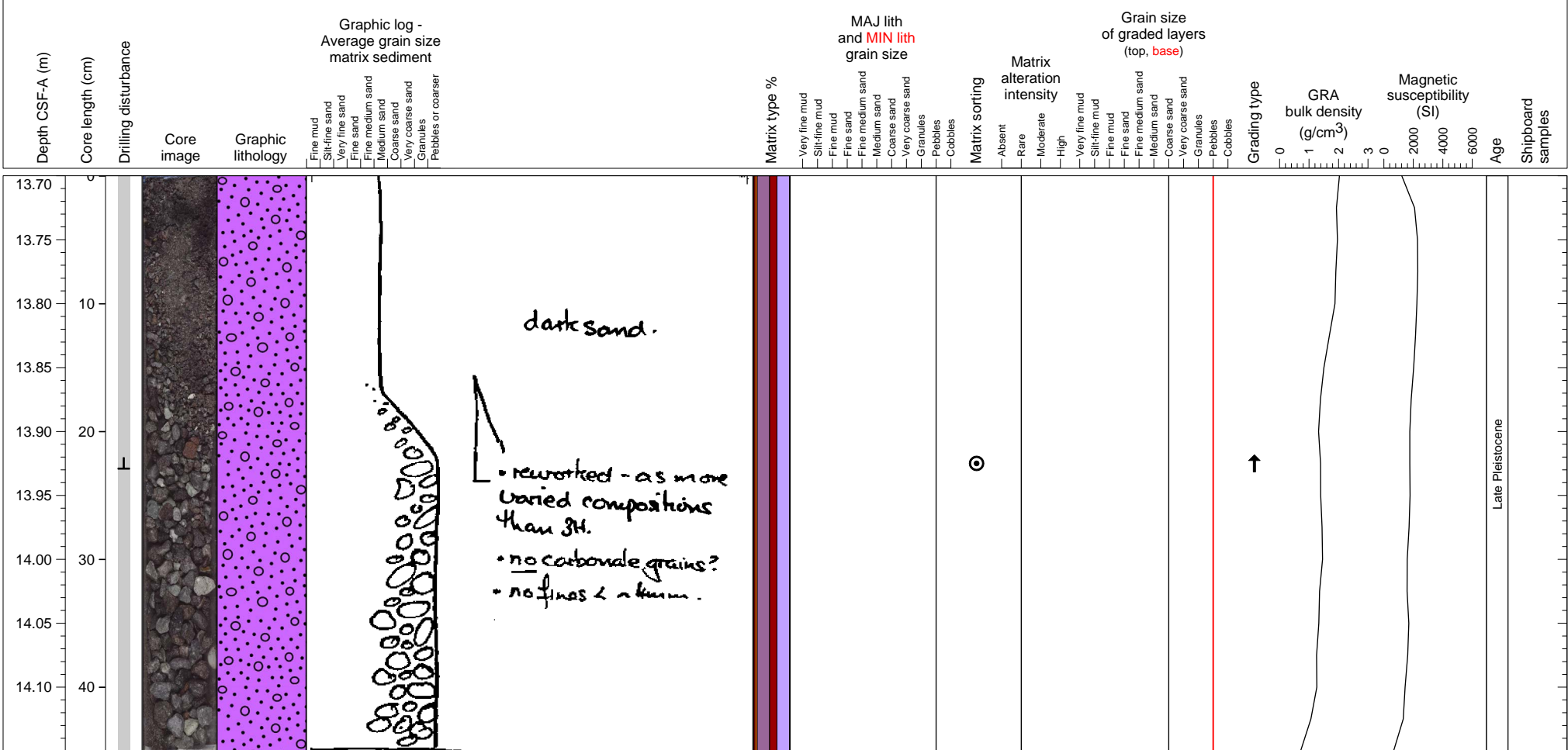




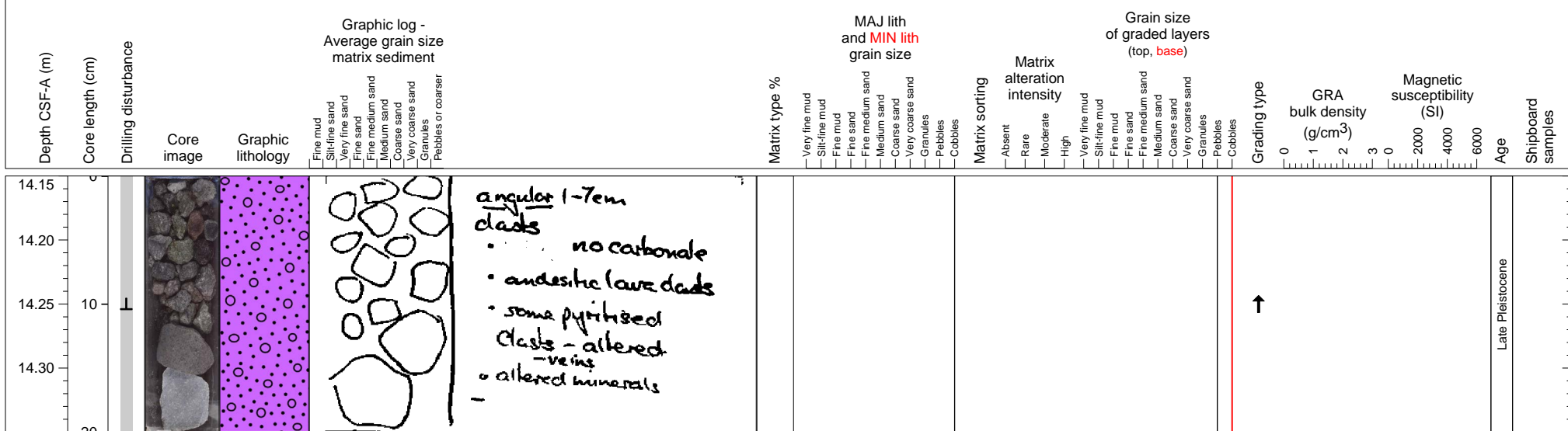
All volcanoclastic gravel.



Volcaniclastic gravel with normal grading.


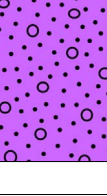



Volcaniclastic gravel; no matrix, clasts only.





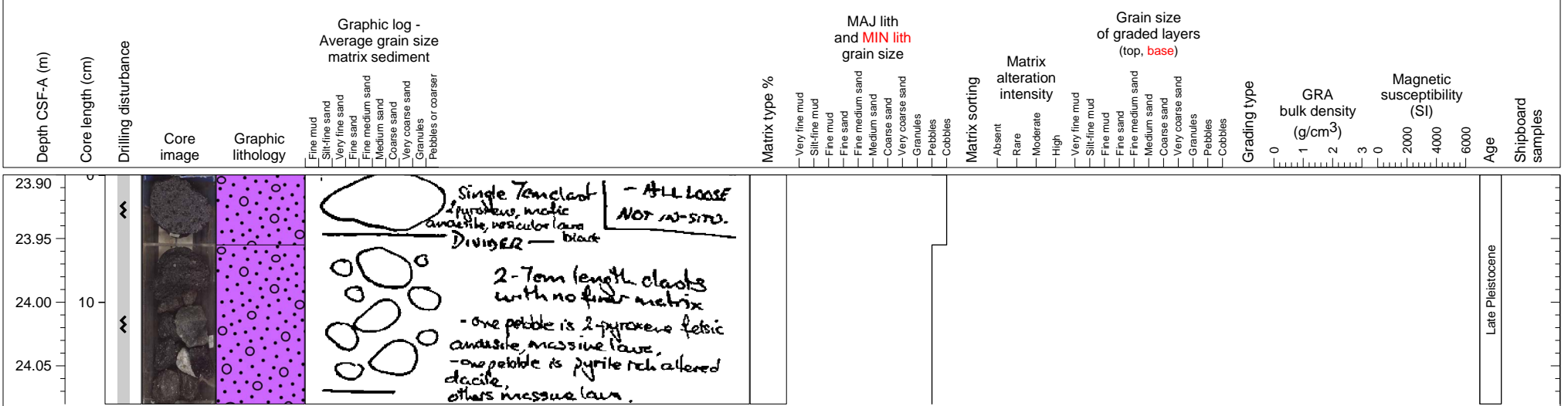
Four massive lava clasts.

| Depth CSF-A (m) | Core length (cm) | Drilling disturbance | Core image  | Graphic lithology   | Graphic log - Average grain size matrix sediment                                  | MAJ lith and MIN lith grain size   | Grain size of graded layers (top, base) | Matrix type % | Matrix sorting | Matrix alteration intensity | GRA bulk density (g/cm <sup>3</sup> ) | Magnetic susceptibility (SI) | Age | Shipboard samples |          |                |                |           |                  |             |             |                  |          |                    |
|-----------------|------------------|----------------------|---|---|---|--|---|---------------|----------------|-----------------------------|---------------------------------------|------------------------------|-----|-------------------|----------|----------------|----------------|-----------|------------------|-------------|-------------|------------------|----------|--------------------|
|                 |                  |                      |   |   |   |  |   |               |                |                             |                                       |                              |     |                   | Fine mud | Silt-fine sand | Very fine sand | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles or coarser |
| 14.30           |                  |                      |  |  |  | four, 1-to-6 cm clasts - andesitic lava clasts, one hornblende andesite - rounded. |   |               |                |                             |                                       |                              |     |                   |          |                |                |           |                  |             |             |                  |          |                    |
| 14.35           |                  |                      |   |   |   |  |   |               |                |                             |                                       |                              |     |                   |          |                |                |           |                  |             |             |                  |          |                    |
| 14.40           | 10               |                      |   |   |   |  |   |               |                |                             |                                       |                              |     |                   |          |                |                |           |                  |             |             |                  |          |                    |

Late Pleistocene

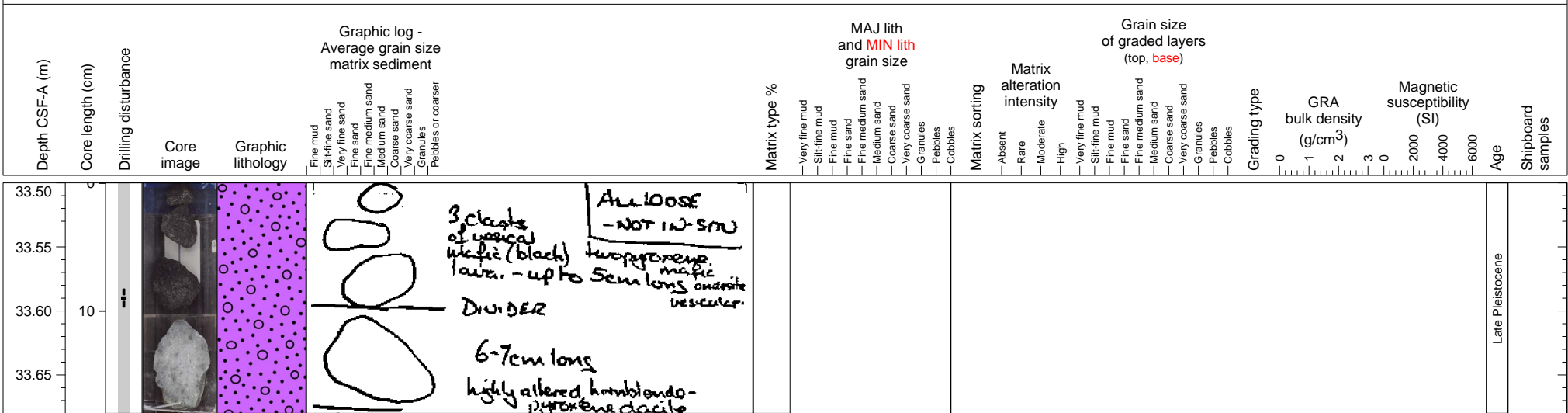
FOR PAL

All clasts of volcanoclastic gravel.



Late Pleistocene

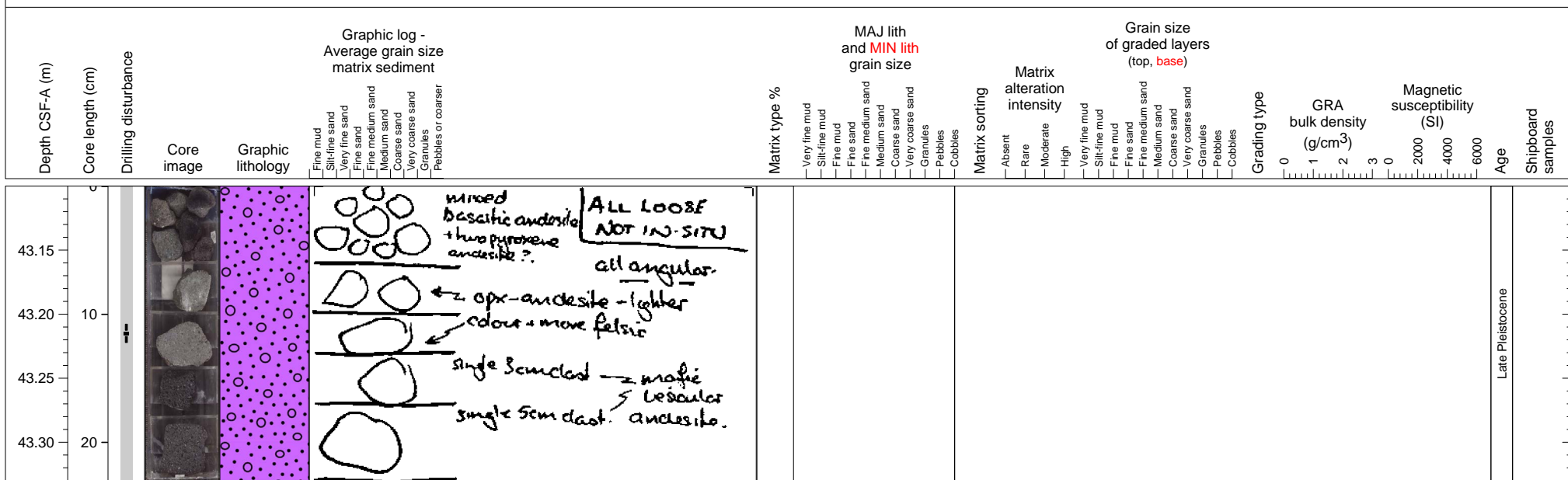
Four igneous rocks clasts up to cobble-sized.



Late Pleistocene

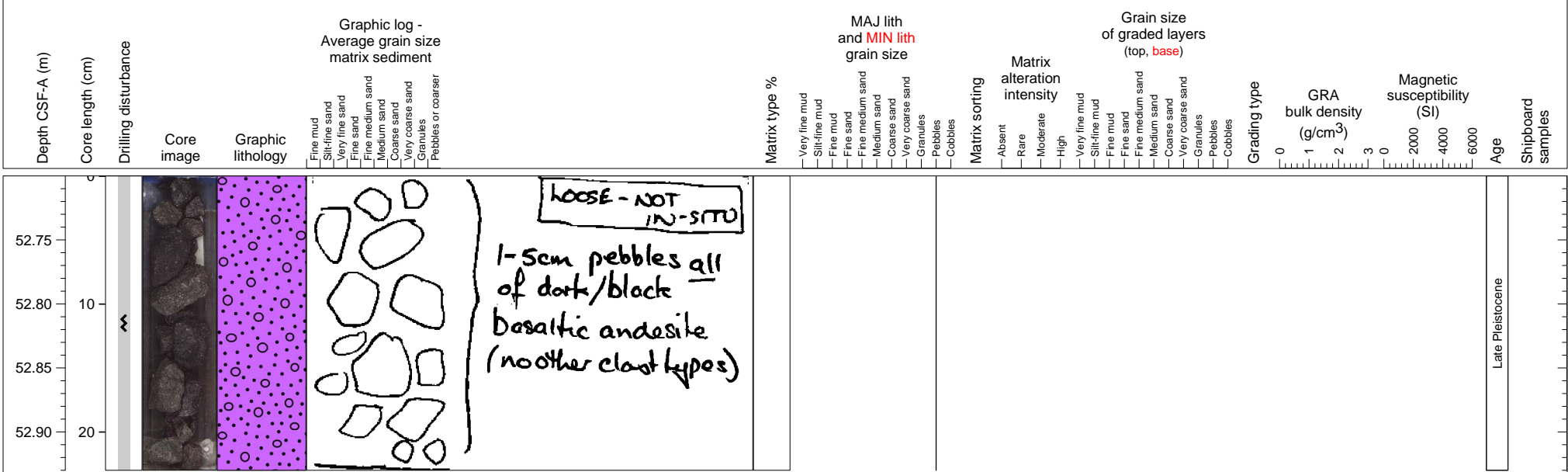


Loose volcanic clasts, pebble and cobble-sized.



Late Pleistocene

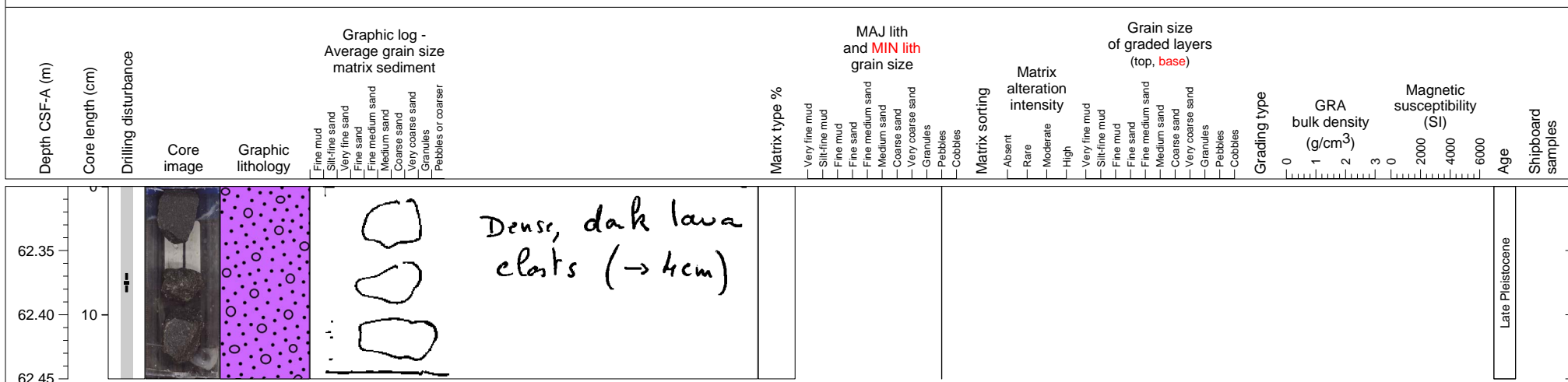
All pebble-sized volcanoclastic gravel.



**LOOSE - NOT IN-SITU**  
 1-5cm pebbles all of dark/black basaltic andesite (no other clast types)


Late Pleistocene

Three vesiculated basaltic andesite clasts in core catcher.

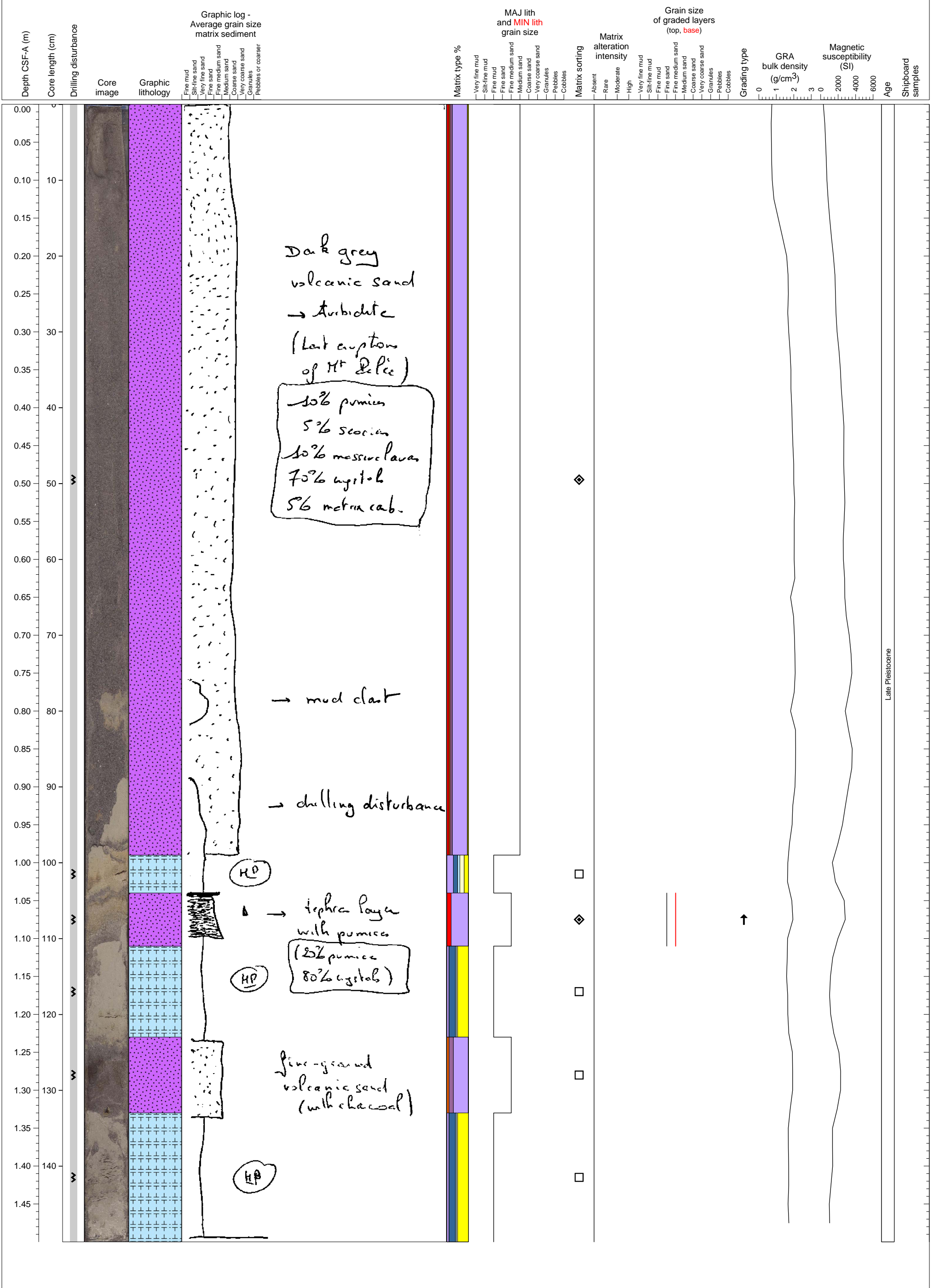




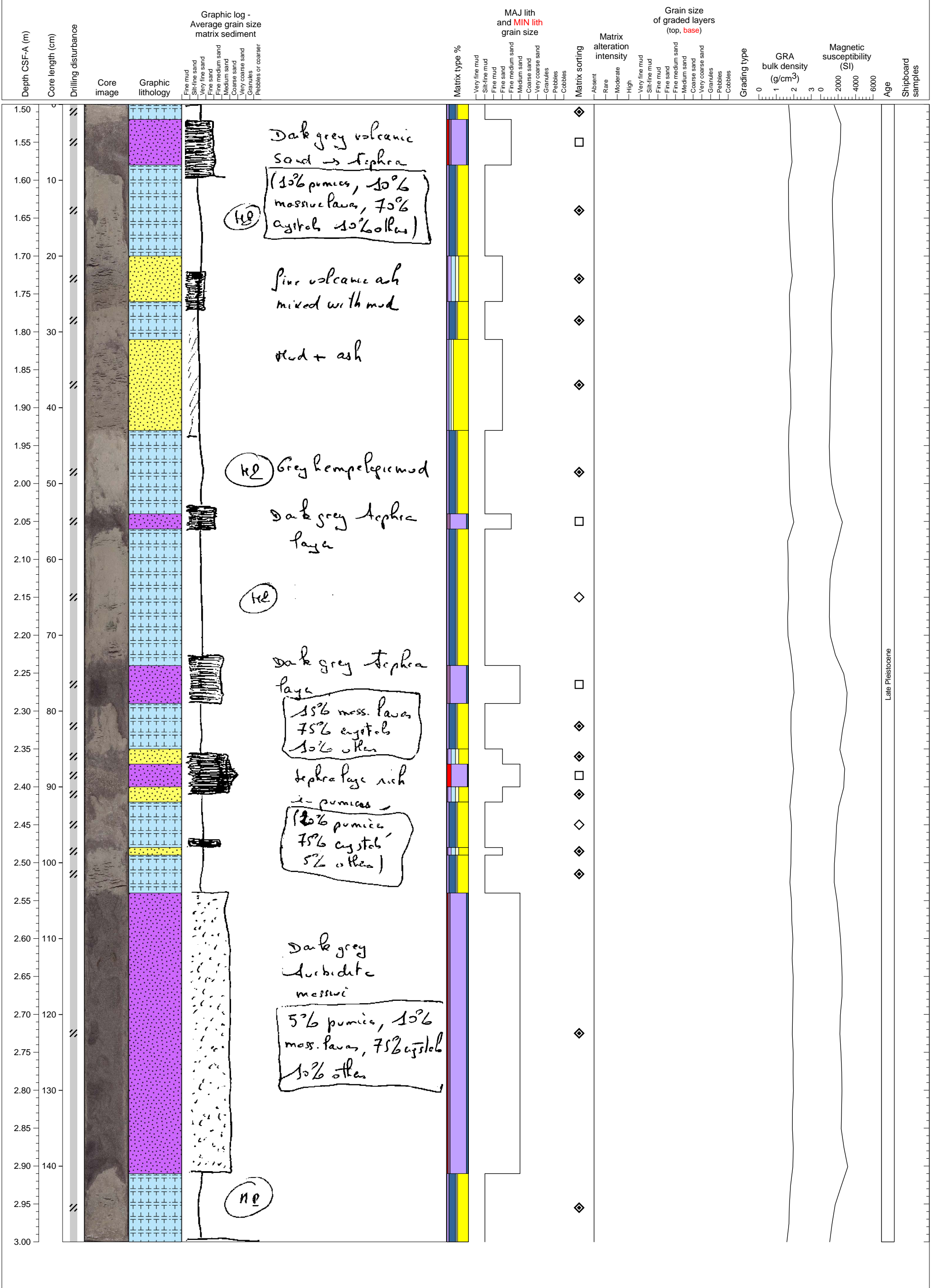
Five clasts of dense to vesicular andesitic lava

| Depth CSF-A (m) | Core length (cm) | Drilling disturbance | Core image  | Graphic lithology | Graphic log - Average grain size matrix sediment   | MAJ lith and MIN lith grain size | Matrix type % | Matrix sorting | Matrix alteration intensity | Grain size of graded layers (top, base) | Grading type | GRA bulk density (g/cm <sup>3</sup> ) | Magnetic susceptibility (SI) | Age | Shipboard samples |
|-----------------|------------------|----------------------|---|-------------------|--|----------------------------------|---------------|----------------|-----------------------------|---|--------------|---------------------------------------|------------------------------|-----|-------------------|
| 71.95           |                  |                      |  |                   | <ul style="list-style-type: none"> <li>○ ○ Dense and poorly vesiculated lavas</li> </ul> |                                  |               |                |                             |   |              |                                       |                              |     |                   |

Hemipelagic fine mud and volcanoclastic turbidites.



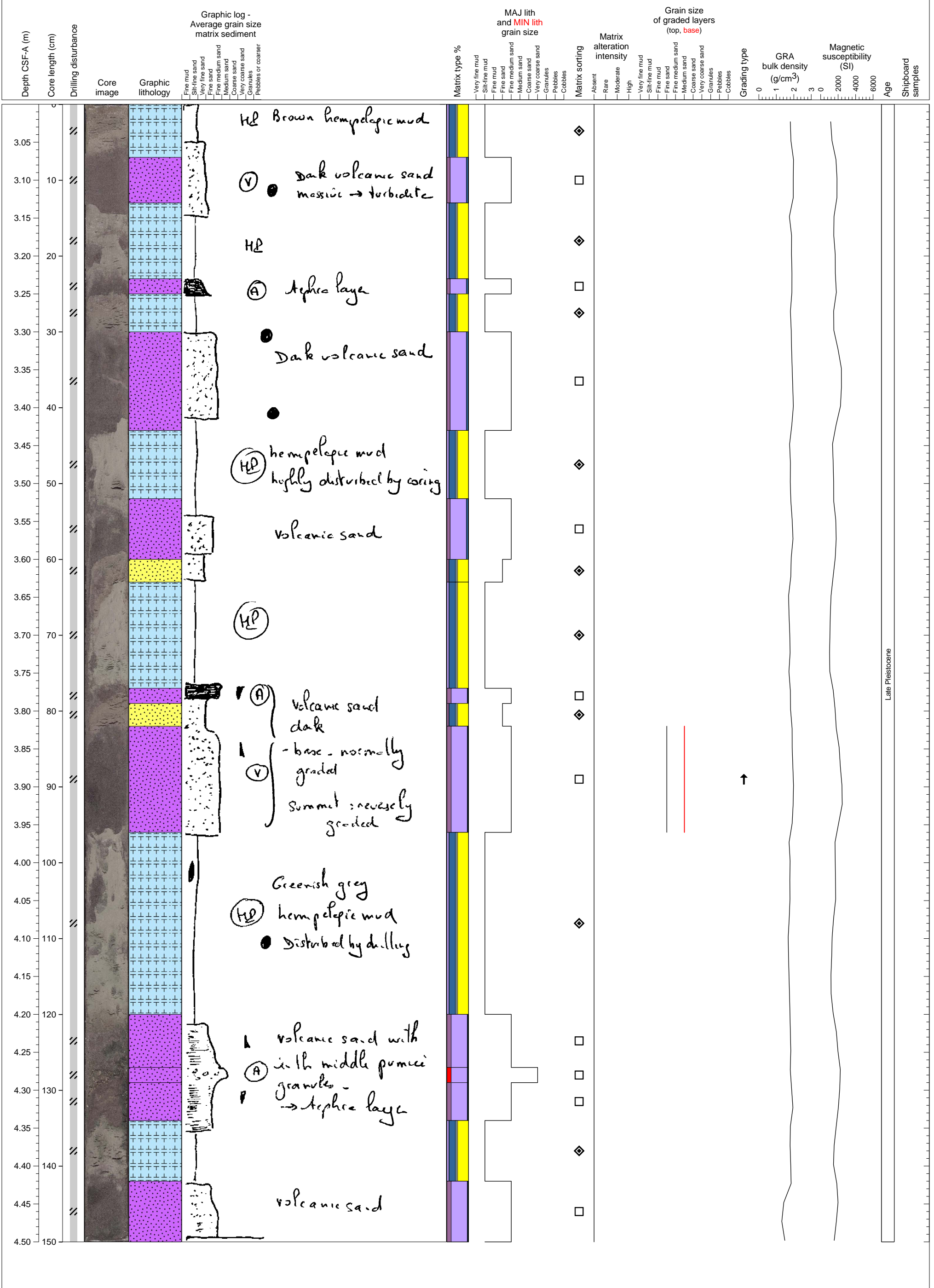
Hemipelagic mud intercalated with volcanoclastic and mixed turbidites.



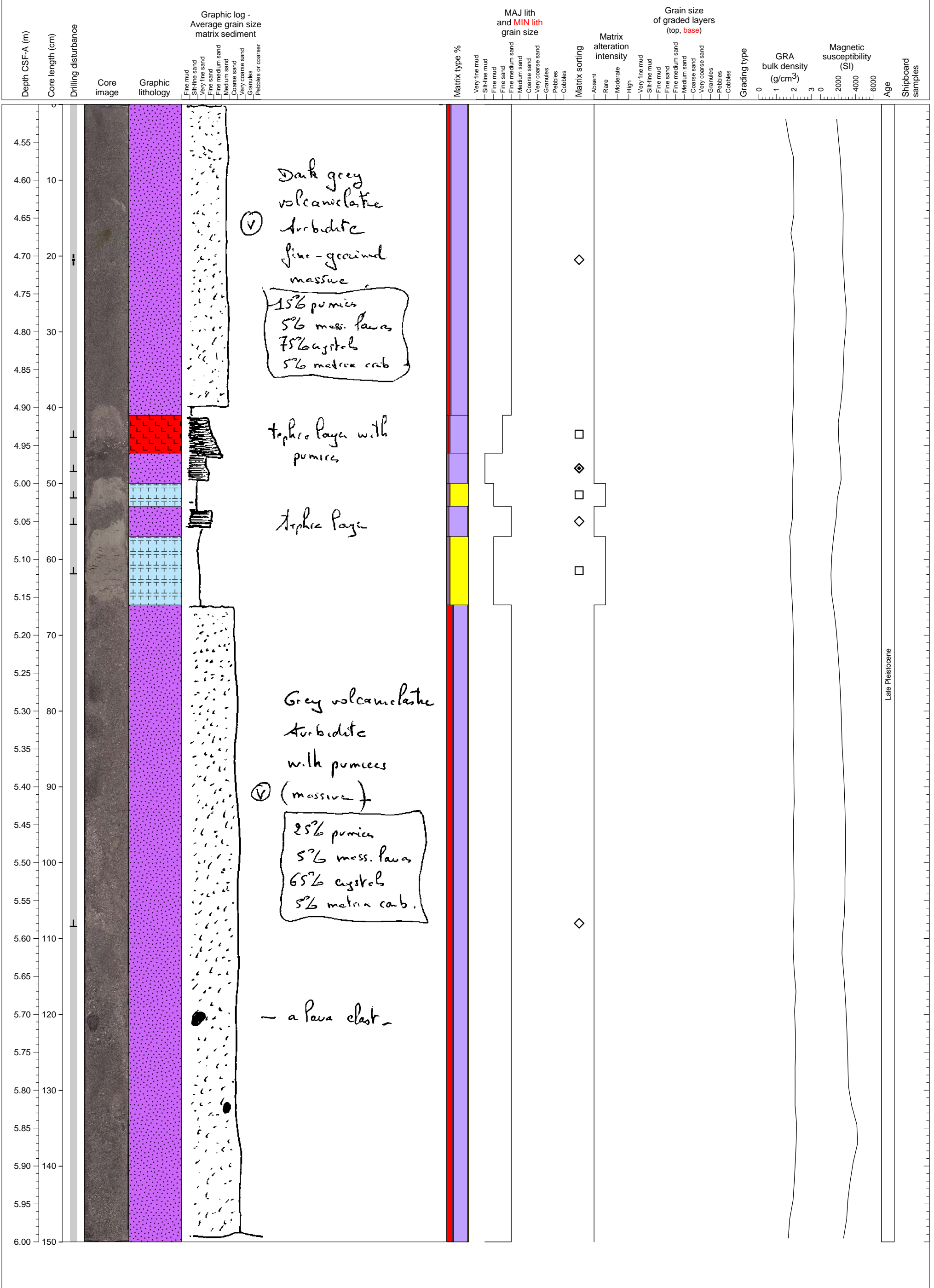
Late Pleistocene



Silty hemipelagic sediment intercalated with volcanic sand layers

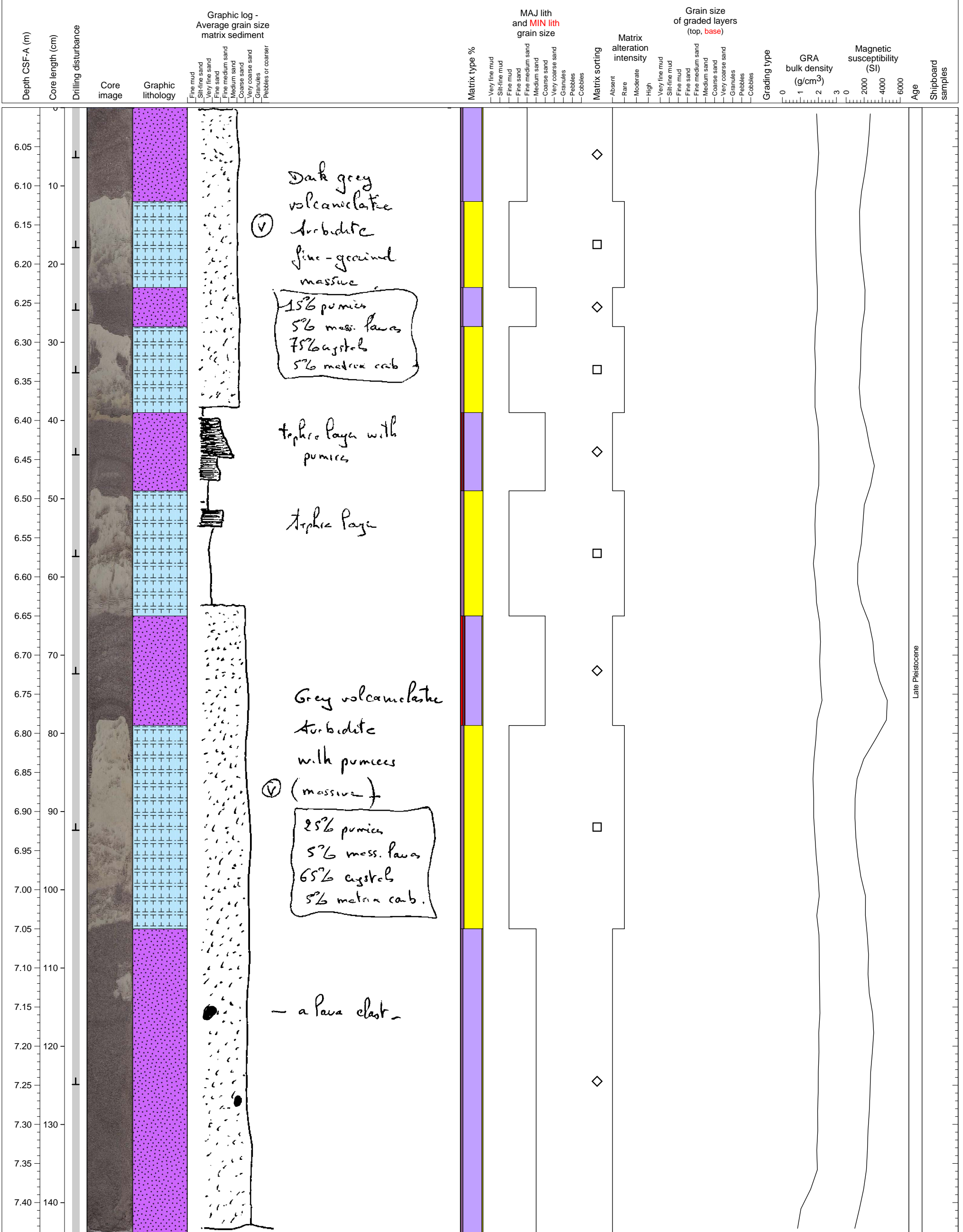


Interbedded hemipelagic sediments and volcanoclastic-sands, with an ash layer.

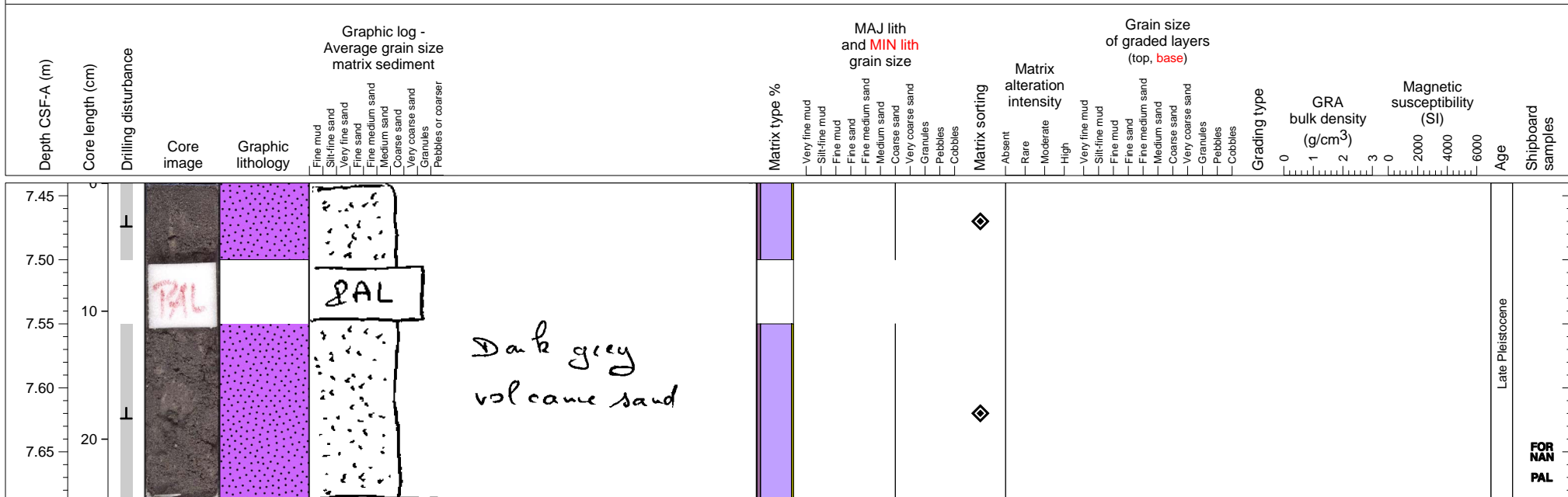




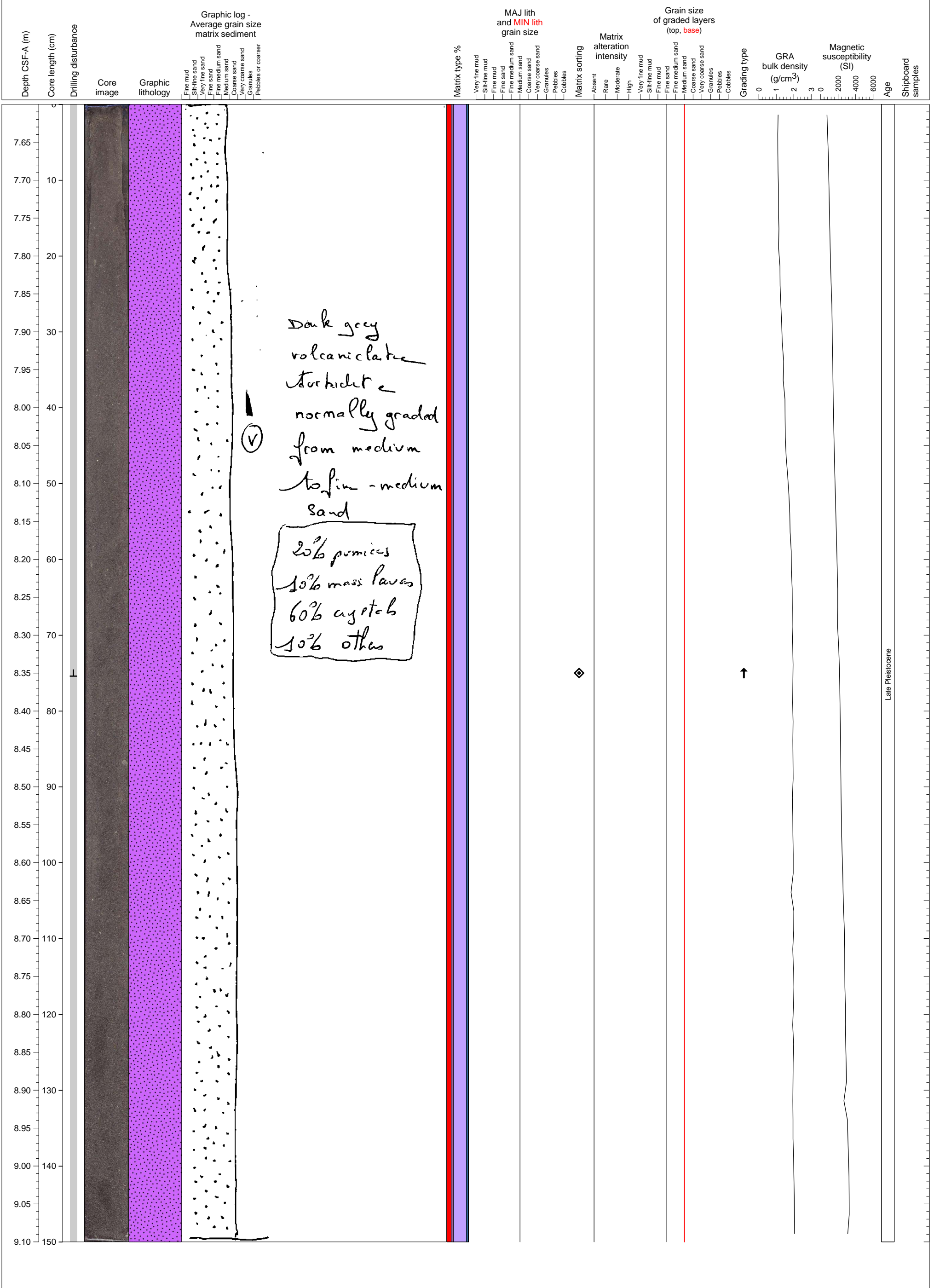
Interbedded hemipelagic sediments and volcanoclastic sands.



Volcaniclastic sand.

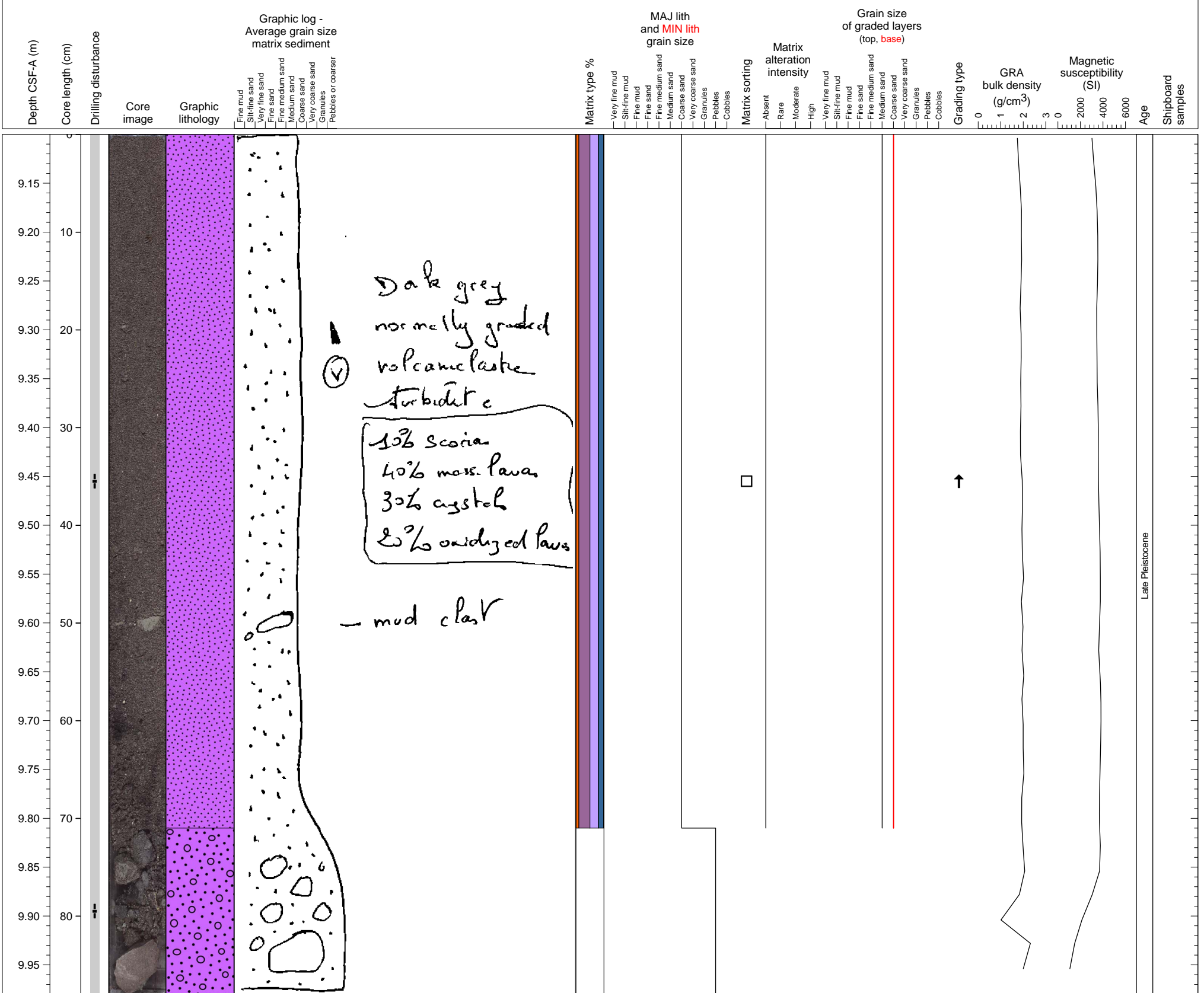


Slightly normally graded volcanoclastic turbidite

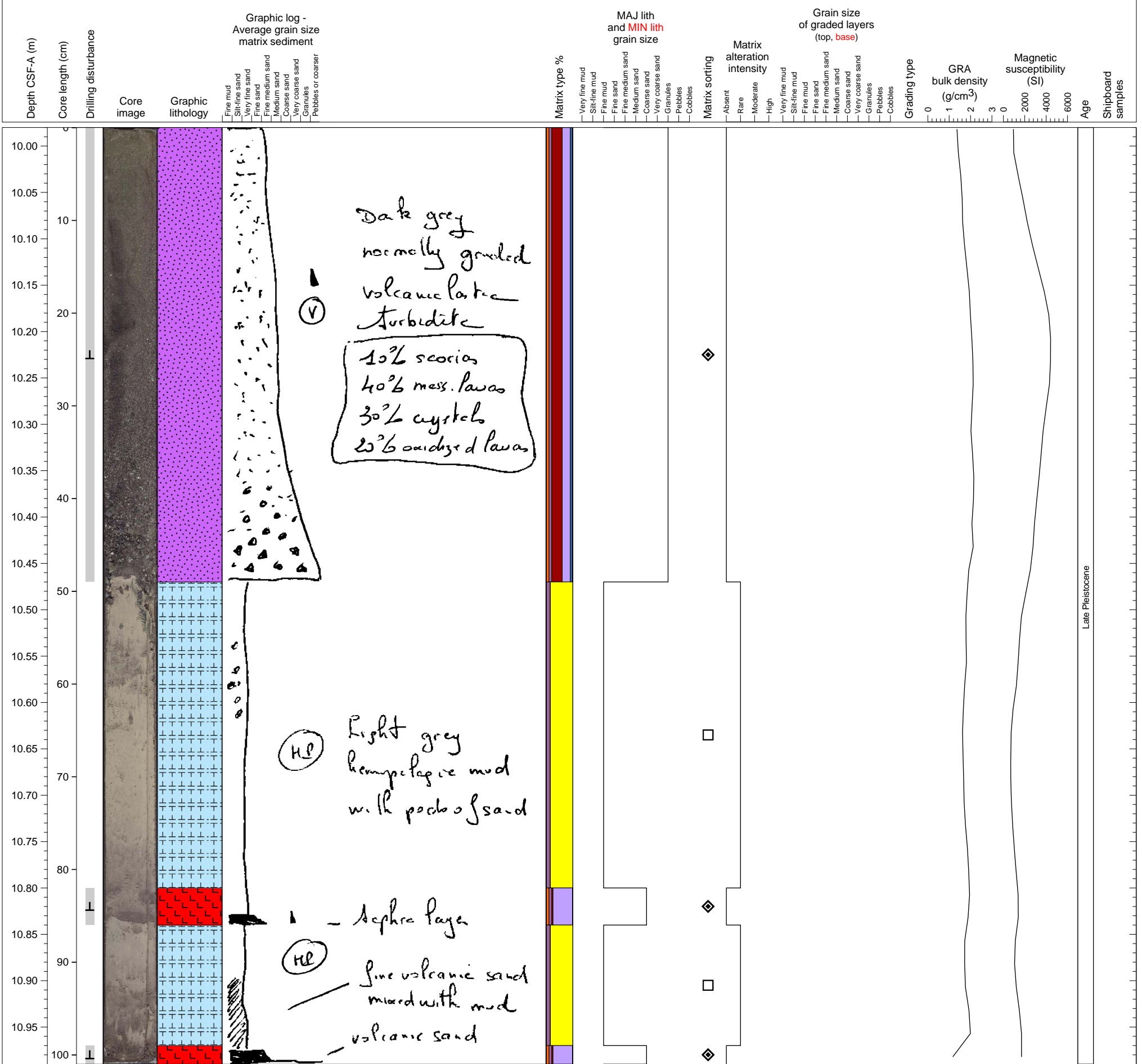




Part of coarse-grained volcanoclastic turbidite

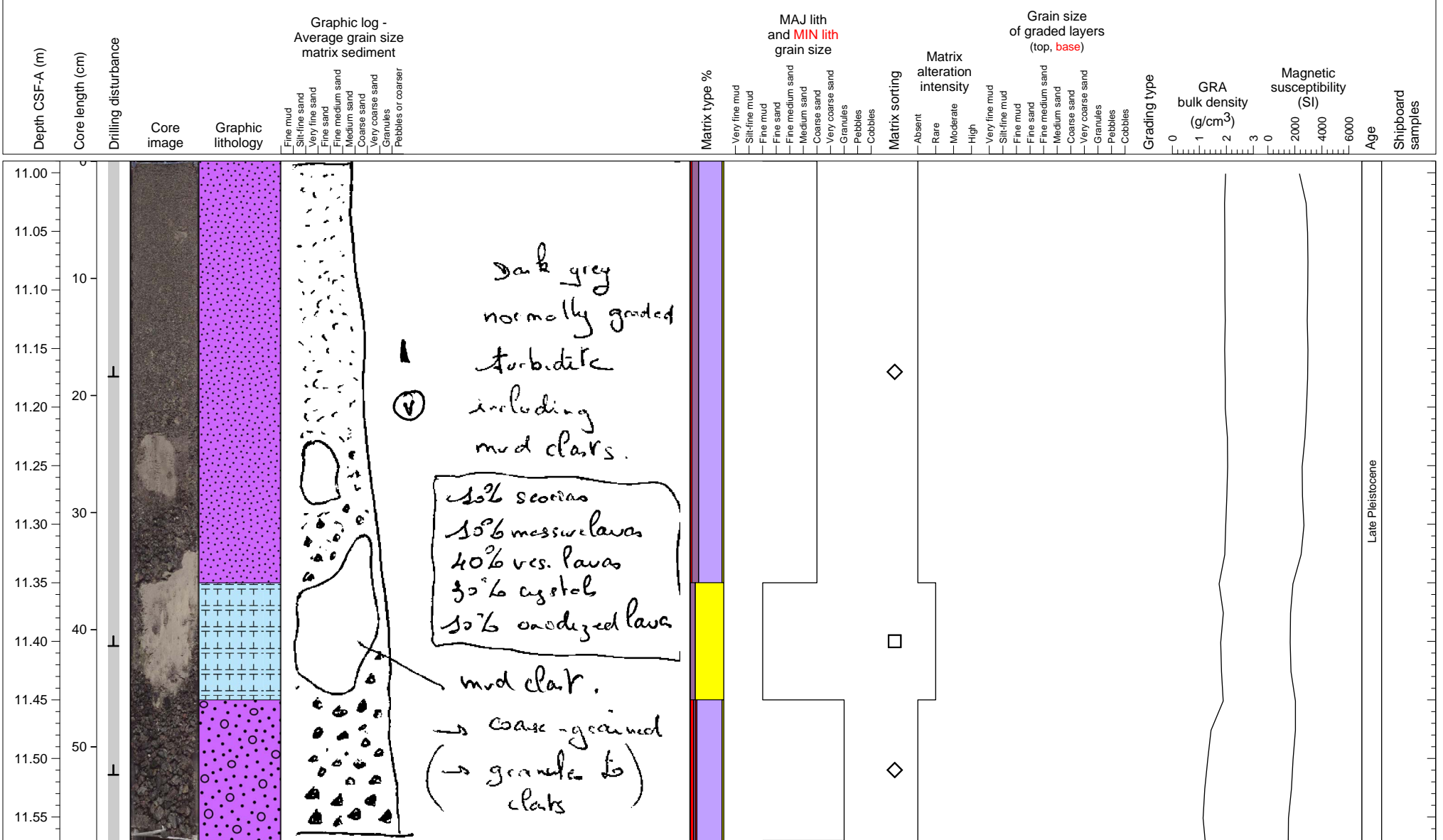


Hemipelagic sediments with volcanoclastic sand and two layers.

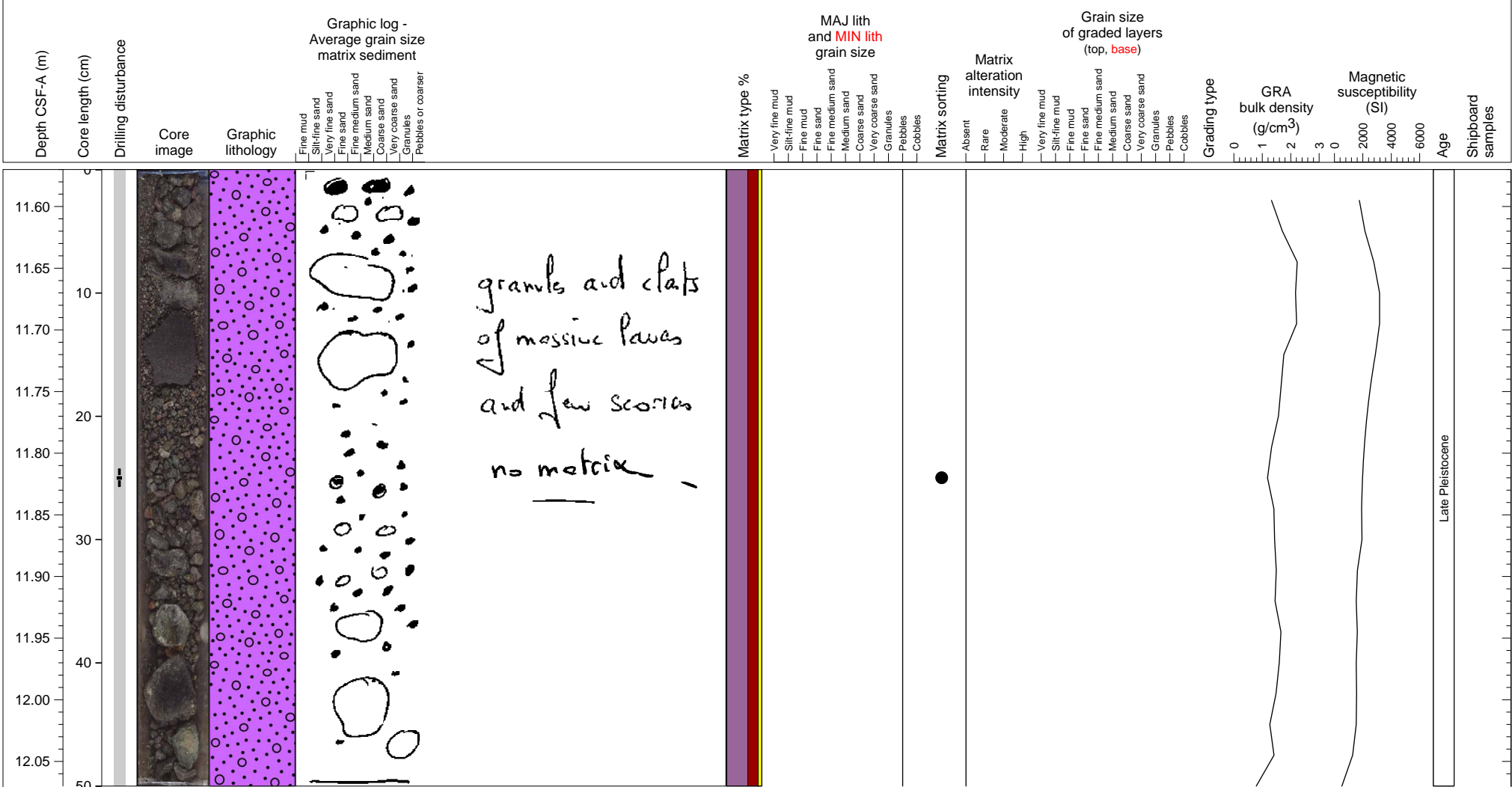




Volcaniclastic sand and gravel with a thin hemipelagic sediment layer.



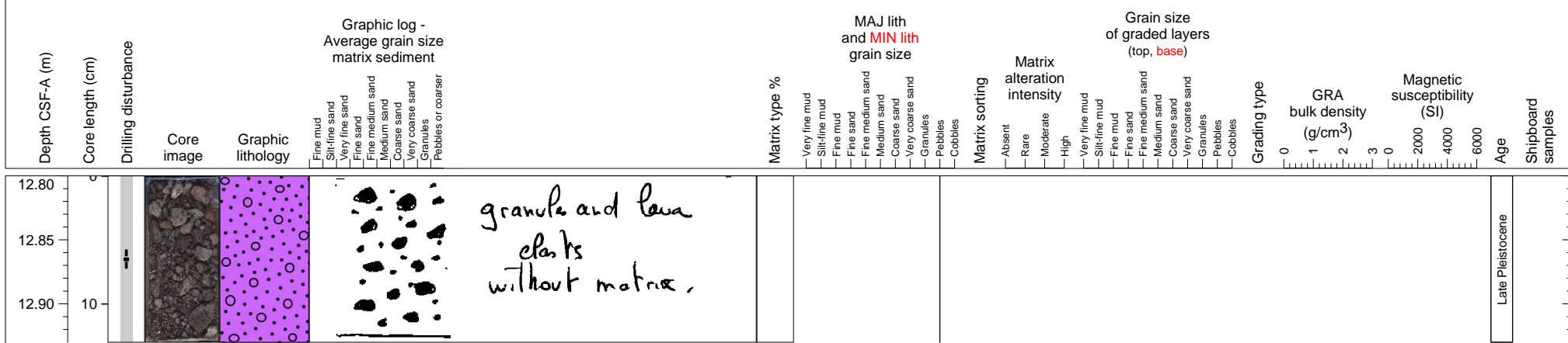
Unconsolidated volcanoclastic gravel.



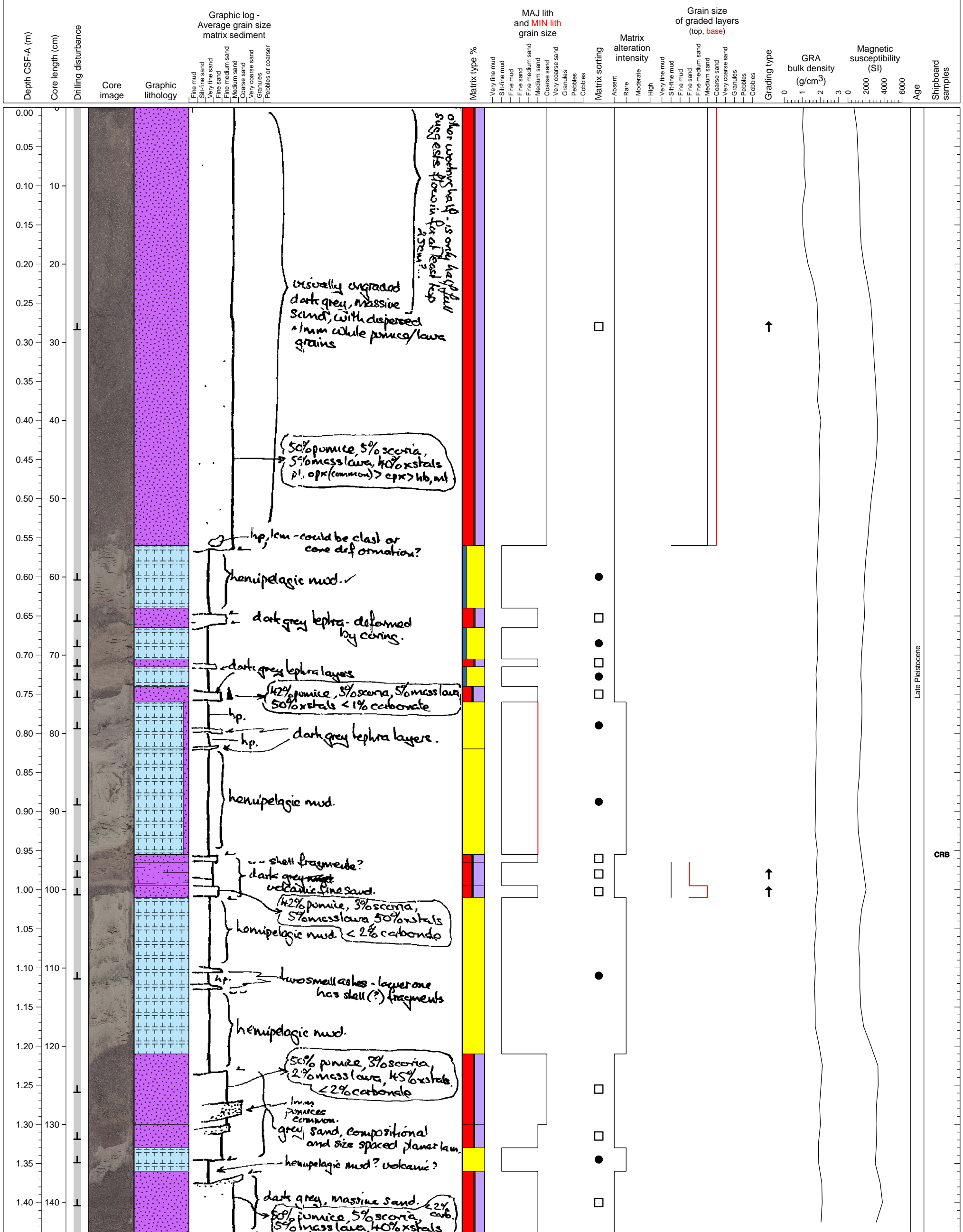
Andesitic massive lava clasts in core catcher



Andesitic clasts in core catcher.

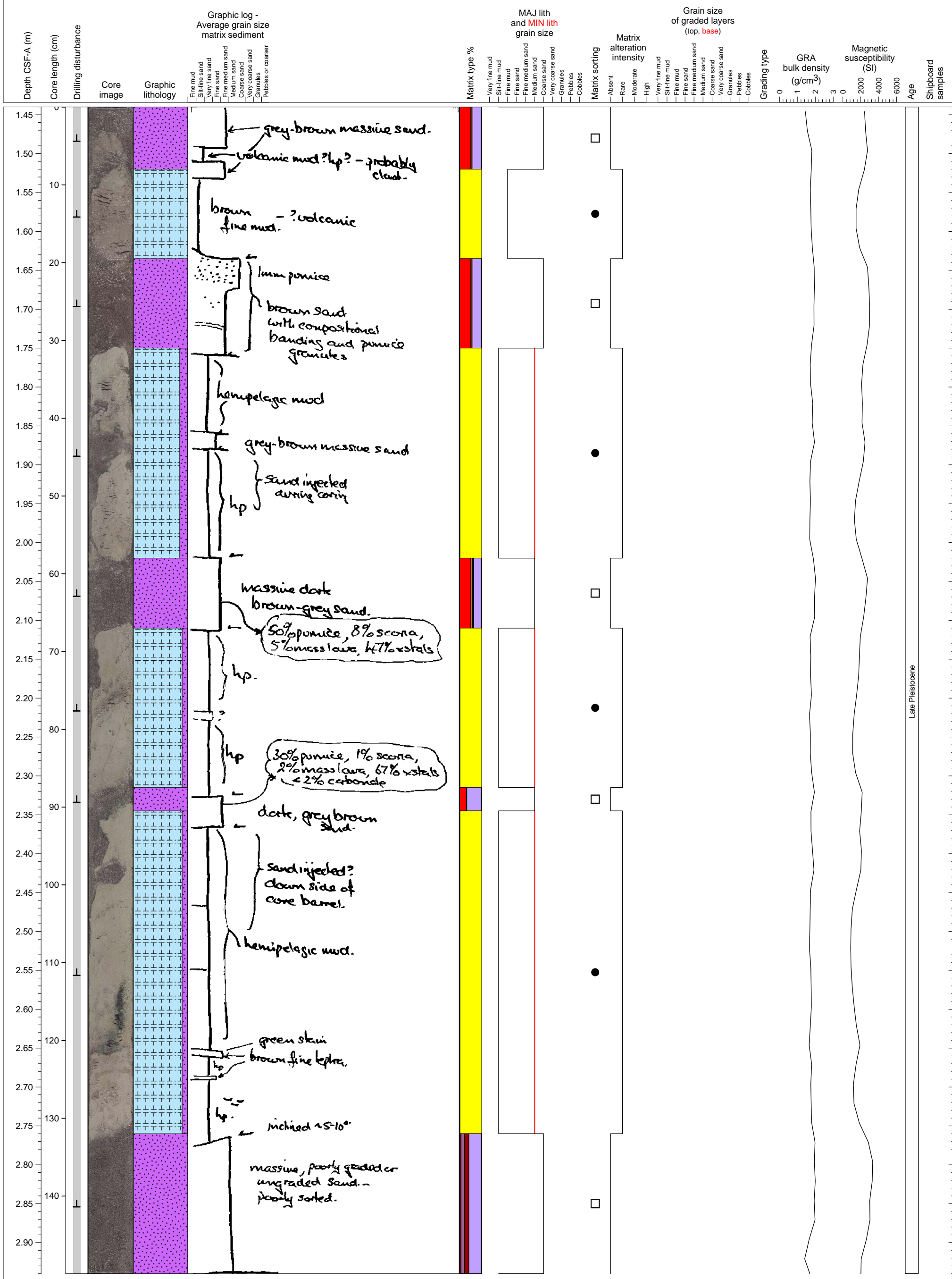


Volcaniclastic sand-mud units interlayered with hemipelagic clays.



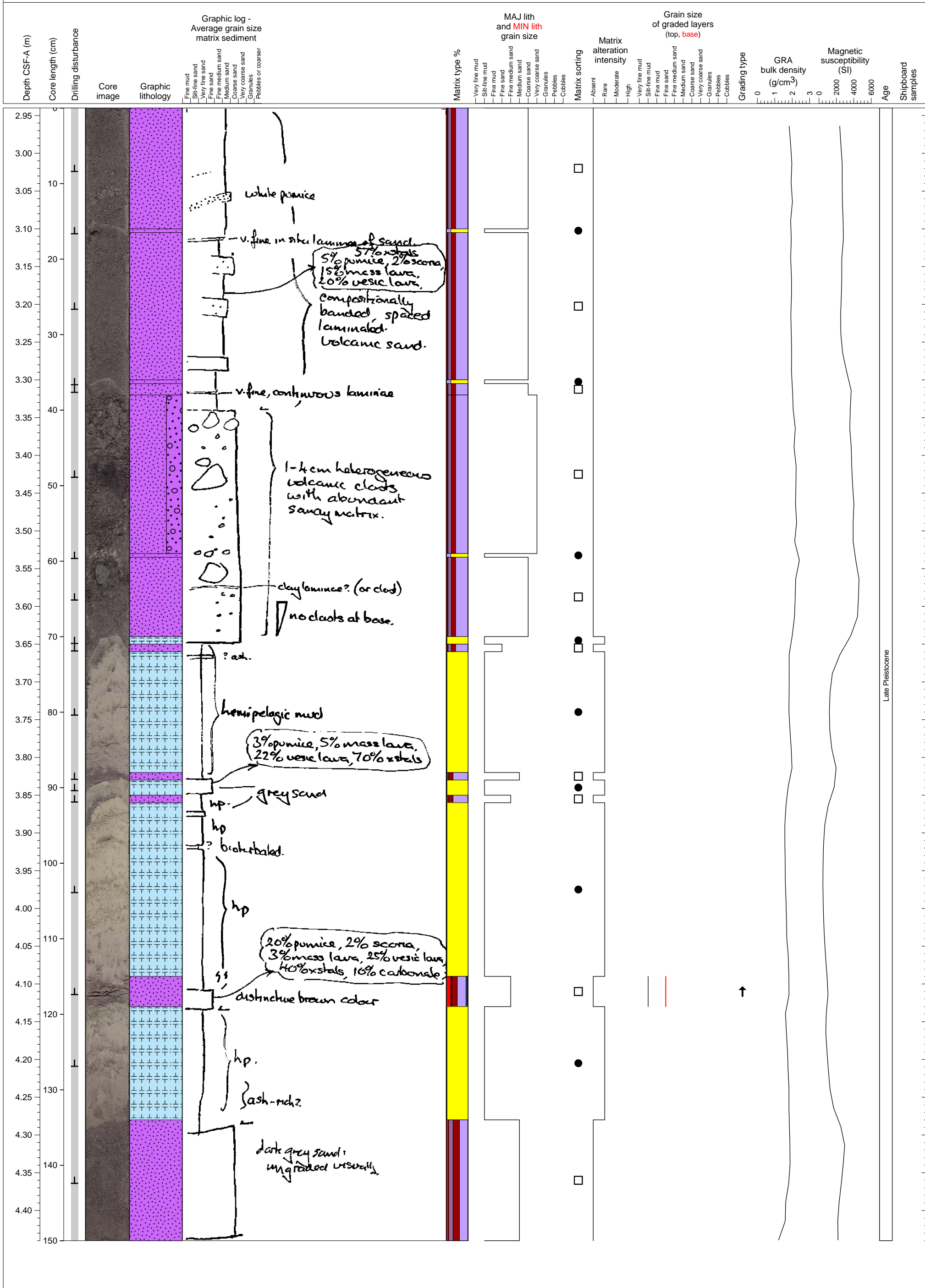


Intercalation of hemipelagic clay and volcanoclastic sand layers.



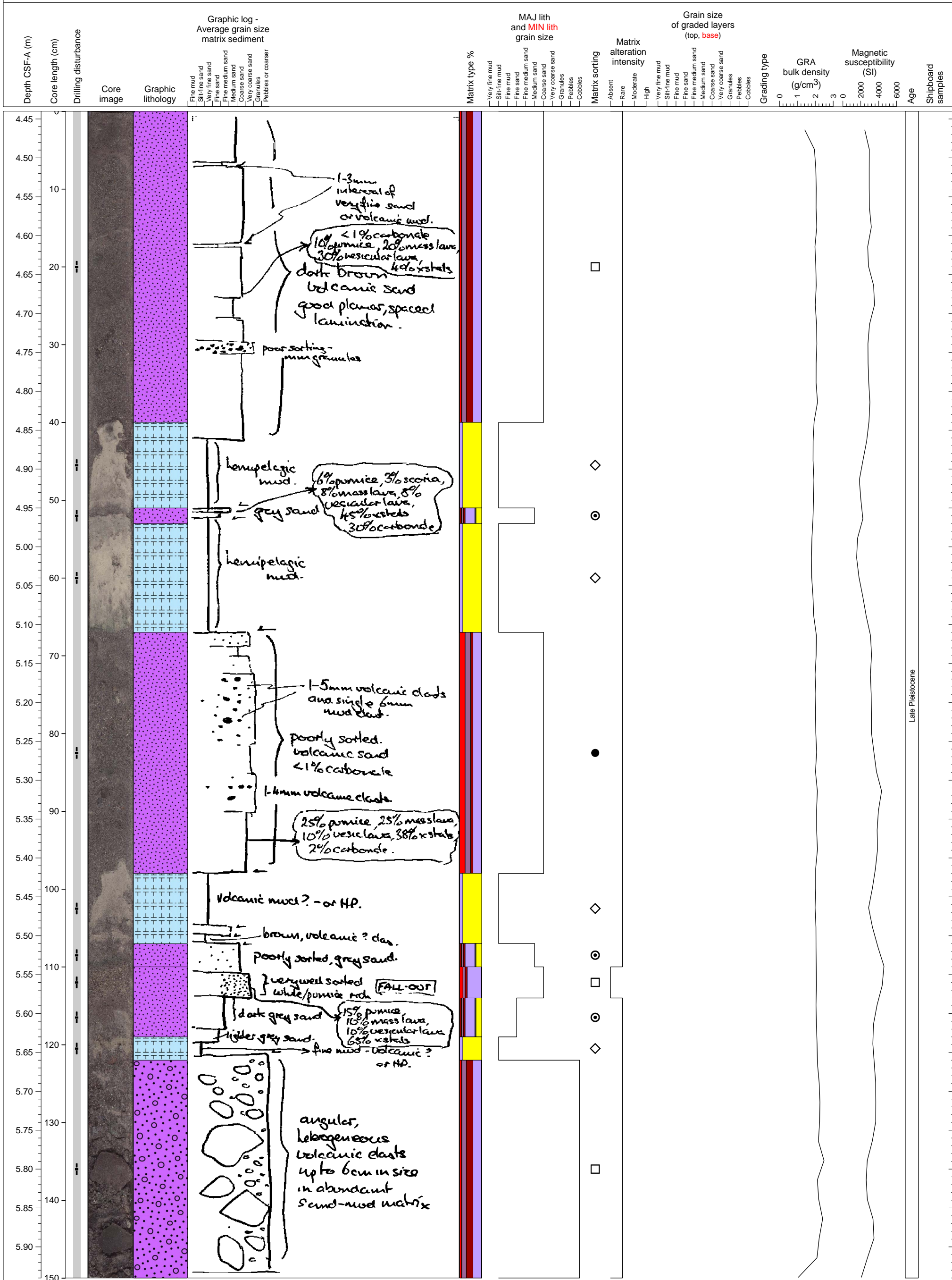
Late Pleistocene

Volcaniclastic mud-sand-gravel units interlayered with hemipelagic clay.



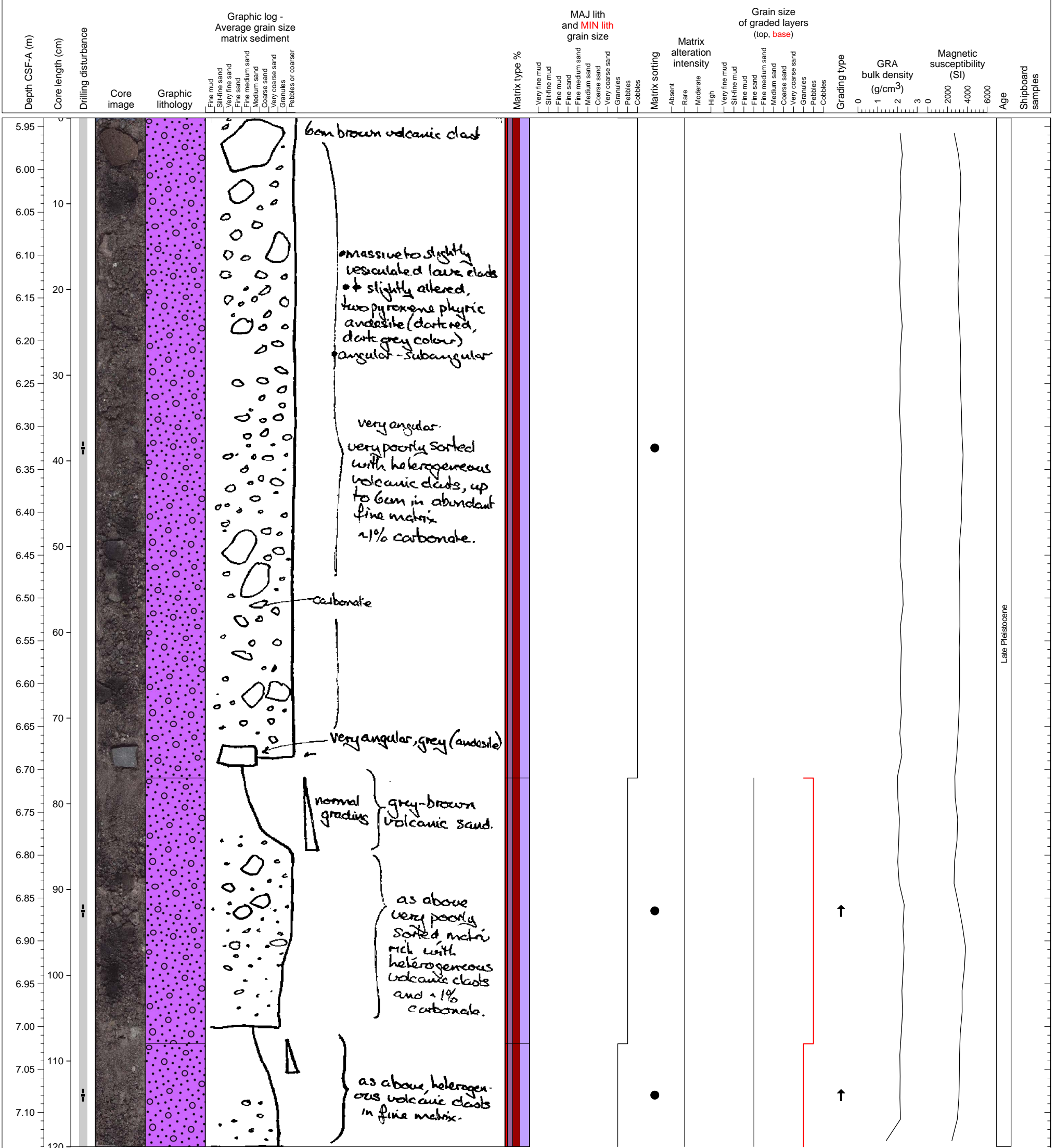


Volcaniclastic sand units interlayered with hemipelagic clay.

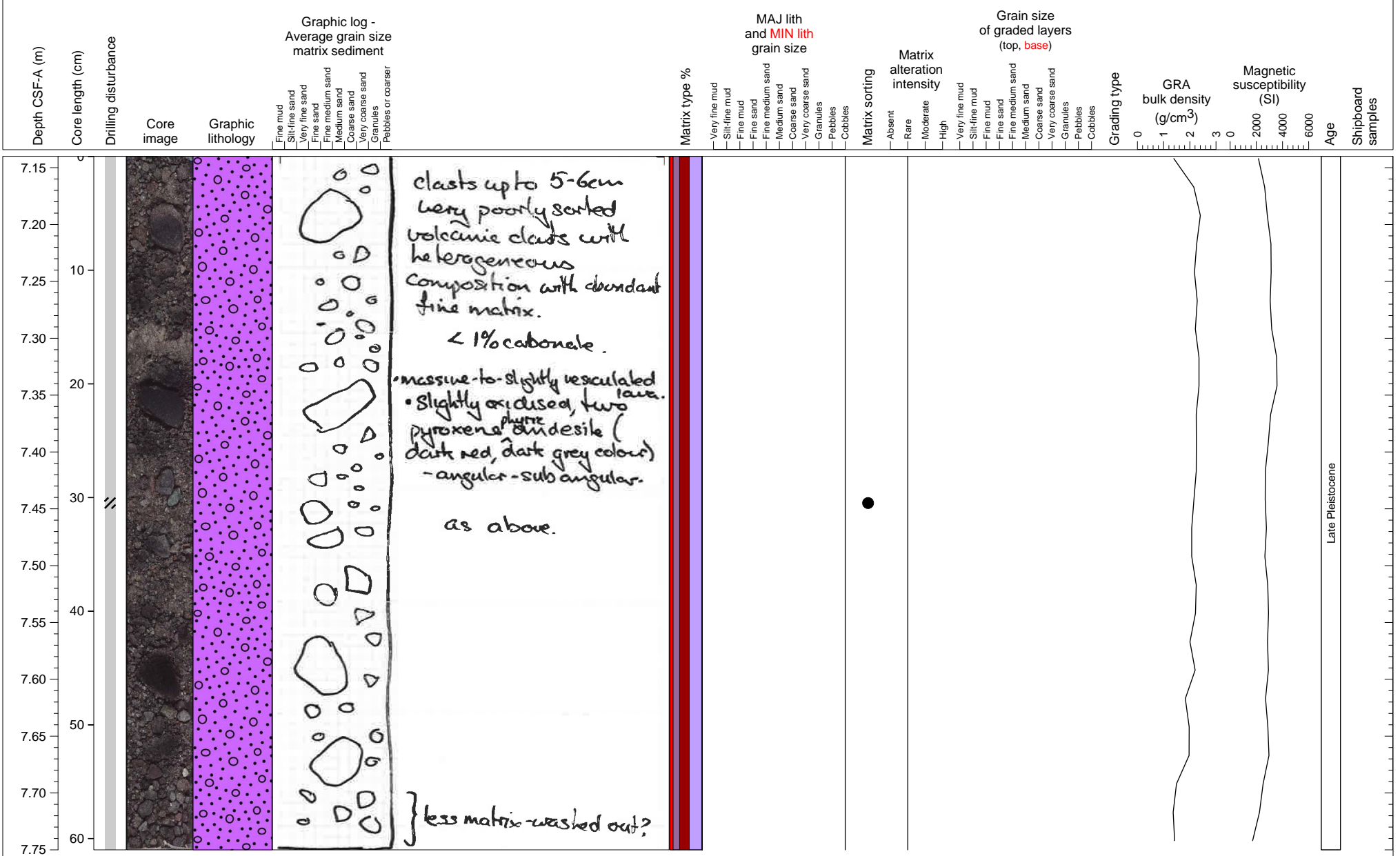


Late Pleistocene

Volcaniclastic gravels, several of which exhibit normal grading.

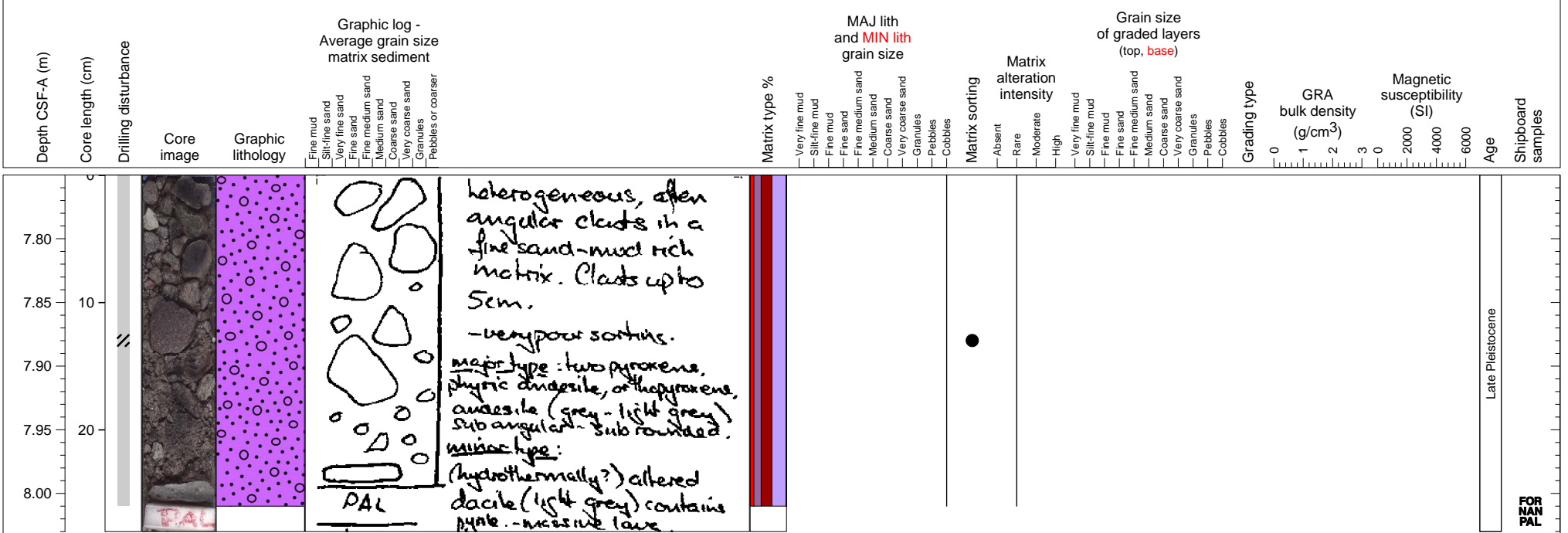


Volcaniclastic gravel with cobble and pebble-sized igneous clasts.





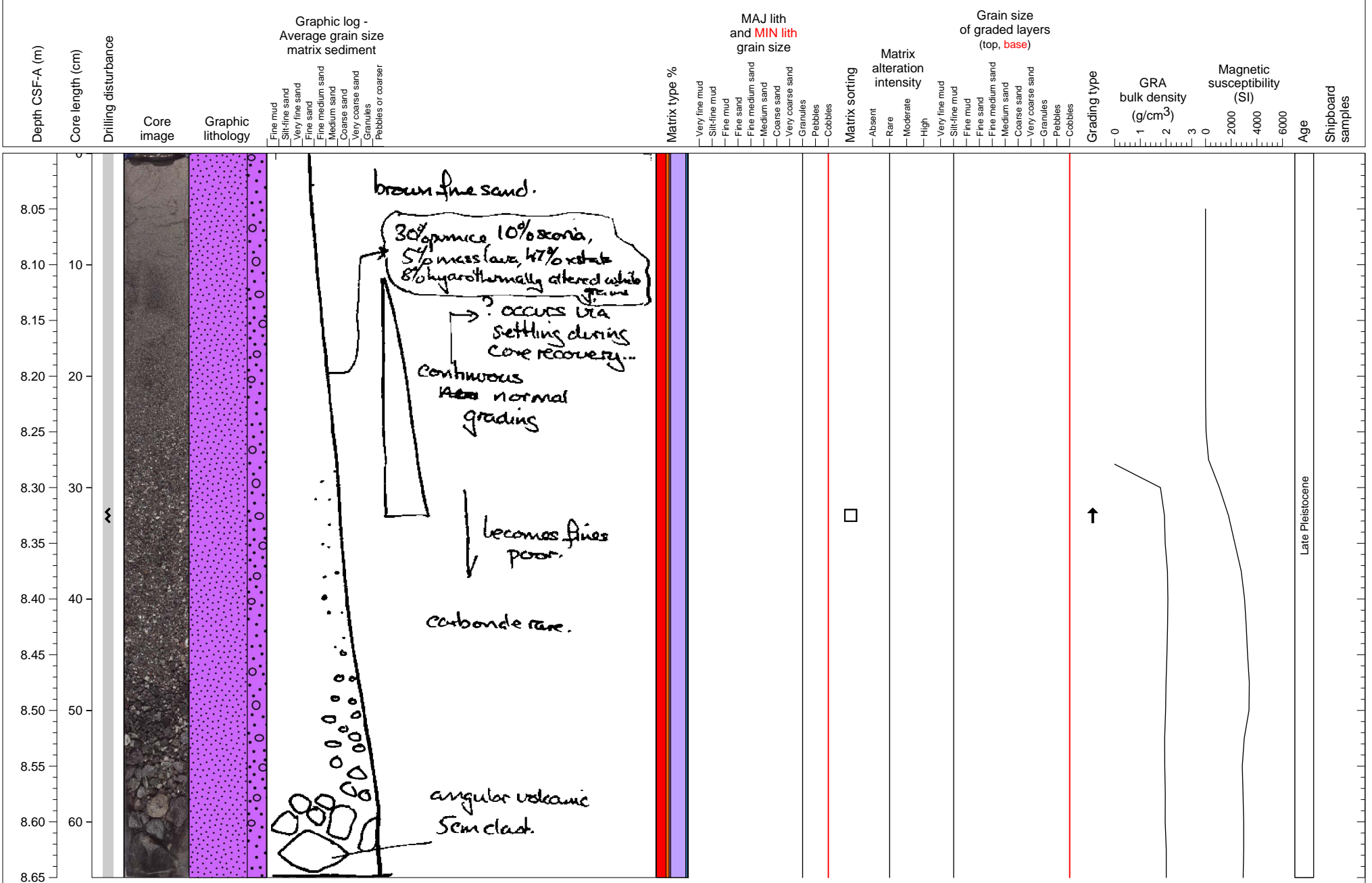
Volcaniclastic gravel with cobble and pebble-sized igneous clasts.



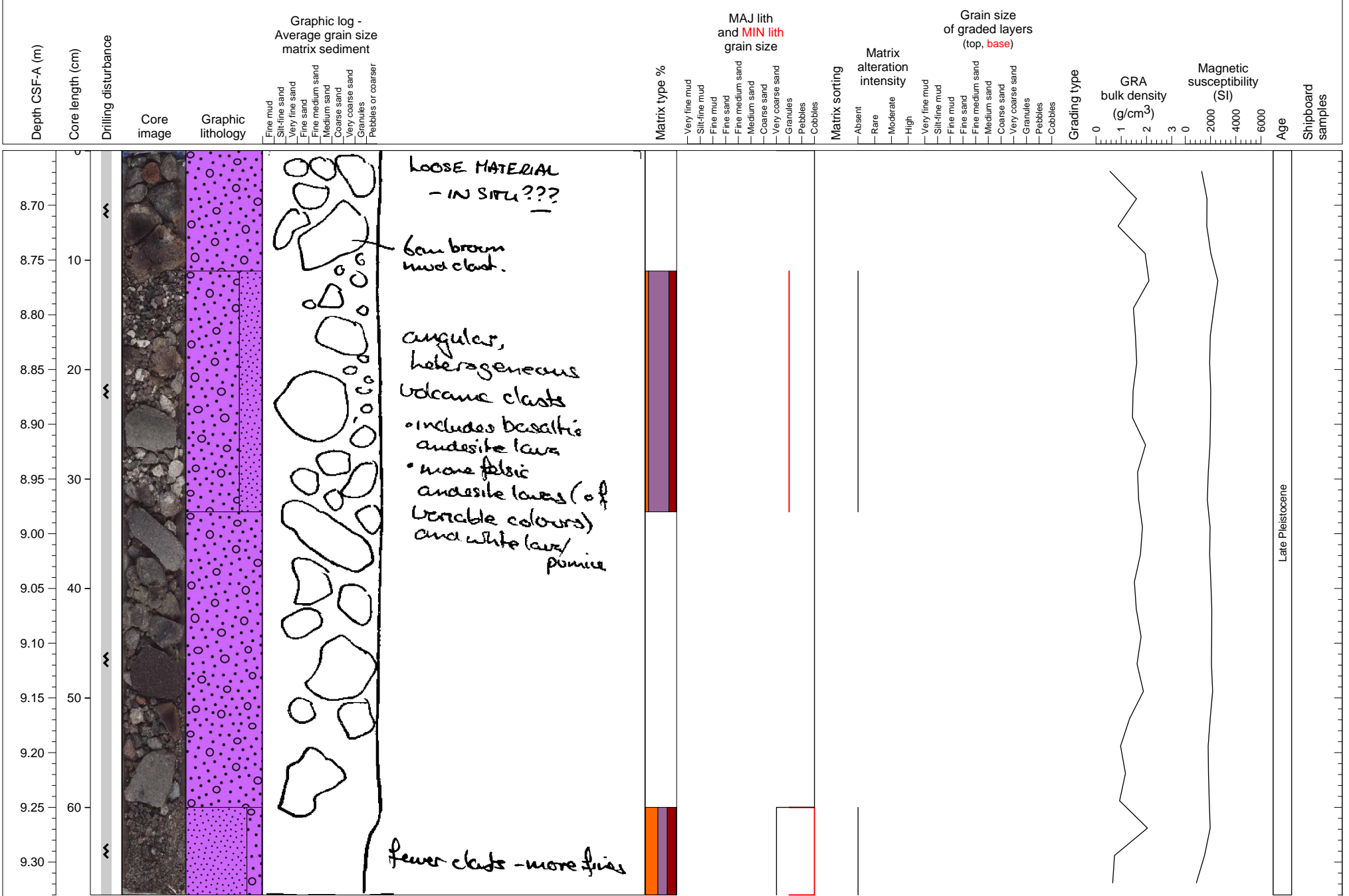
Late Pleistocene

FOR NAN PAL

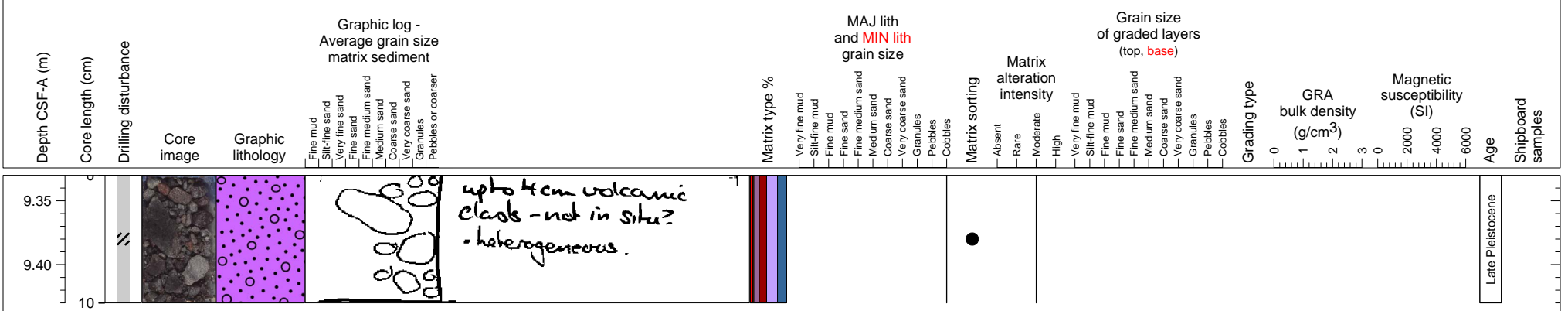
Normally graded volcaniclastic sand and gravel containing hydrothermally altered rocks.



Mixture of volcanoclastic gravel and sand.

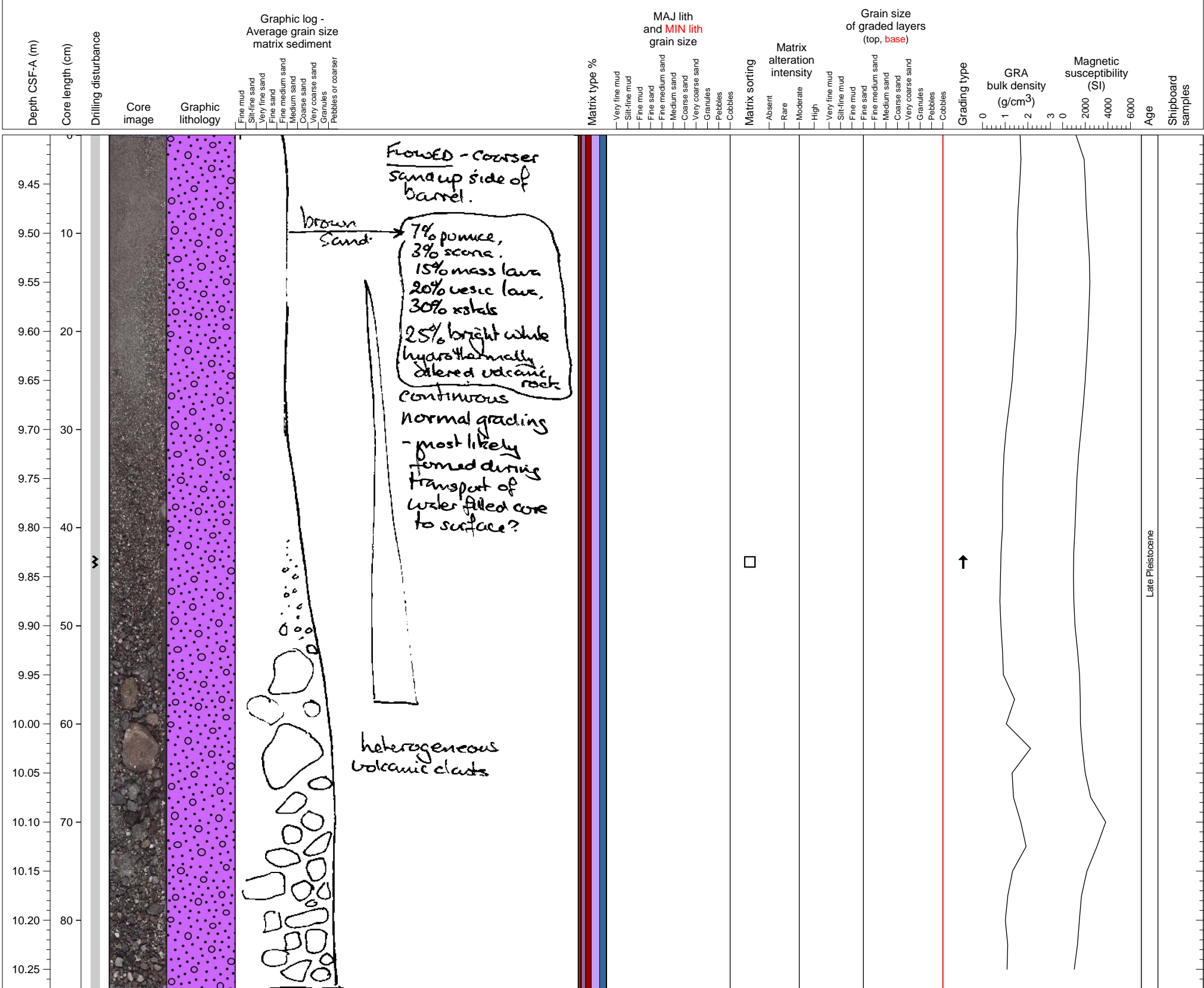


Volcaniclastic gravel with pebble and cobble-sized clasts.

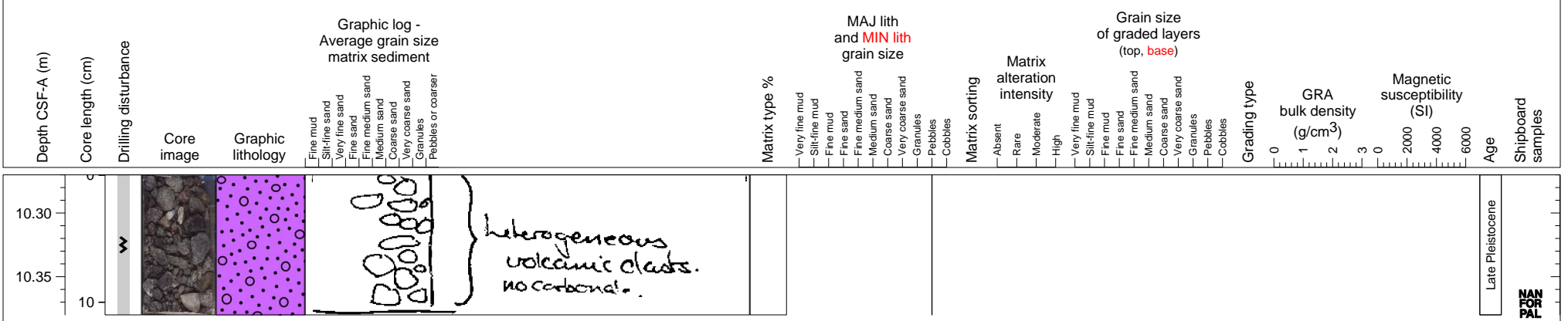




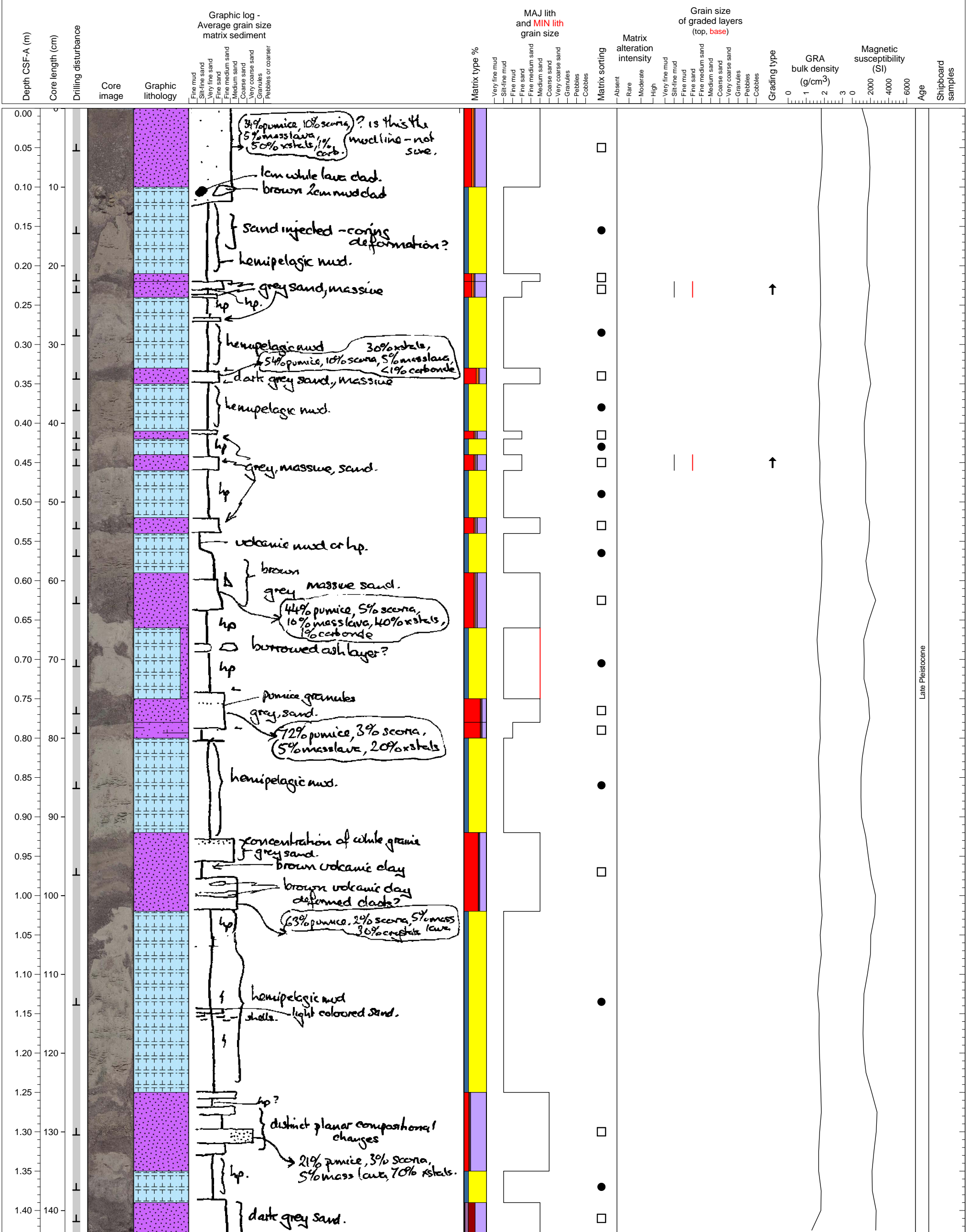
Volcaniclastic gravel with normal grading that is likely the result of the core retrieval process.



Volcaniclastic gravel consisting only of clasts; no matrix material is present.

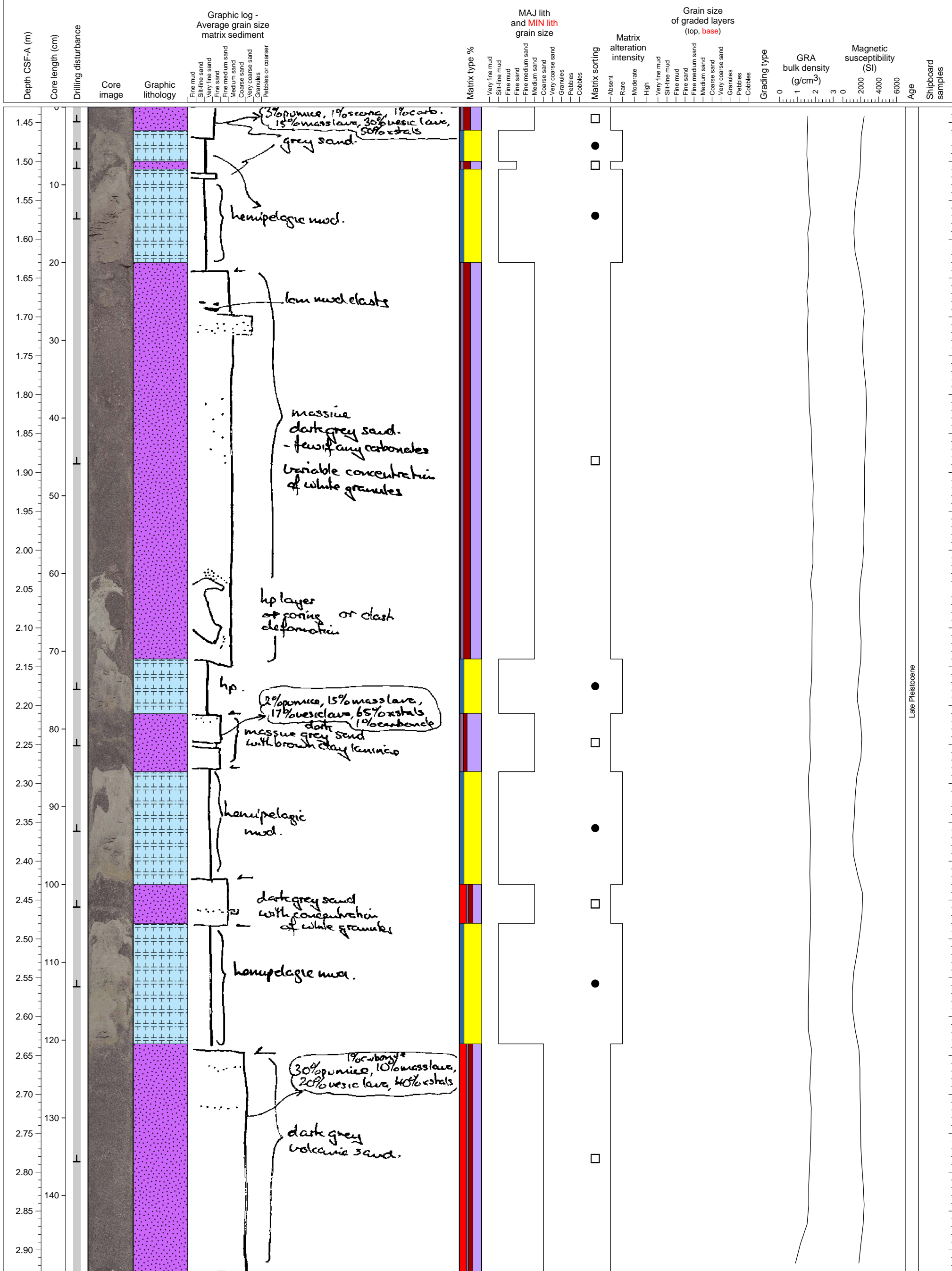


Hemipelagic clay interlayered with abundant thin volcanoclastic sand-mud units.



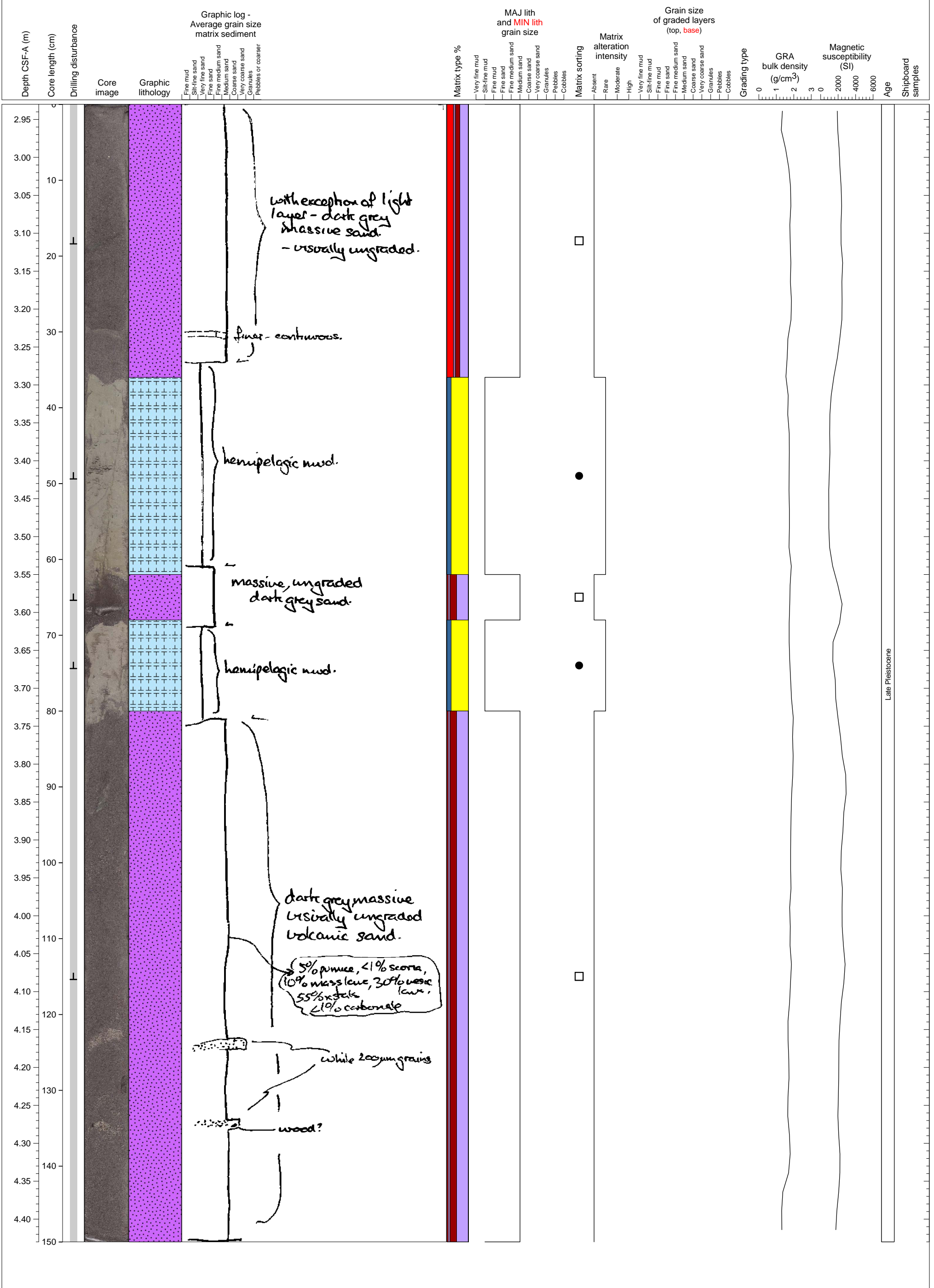


Volcaniclastic sand units interlayered with hemipelagic sediments.

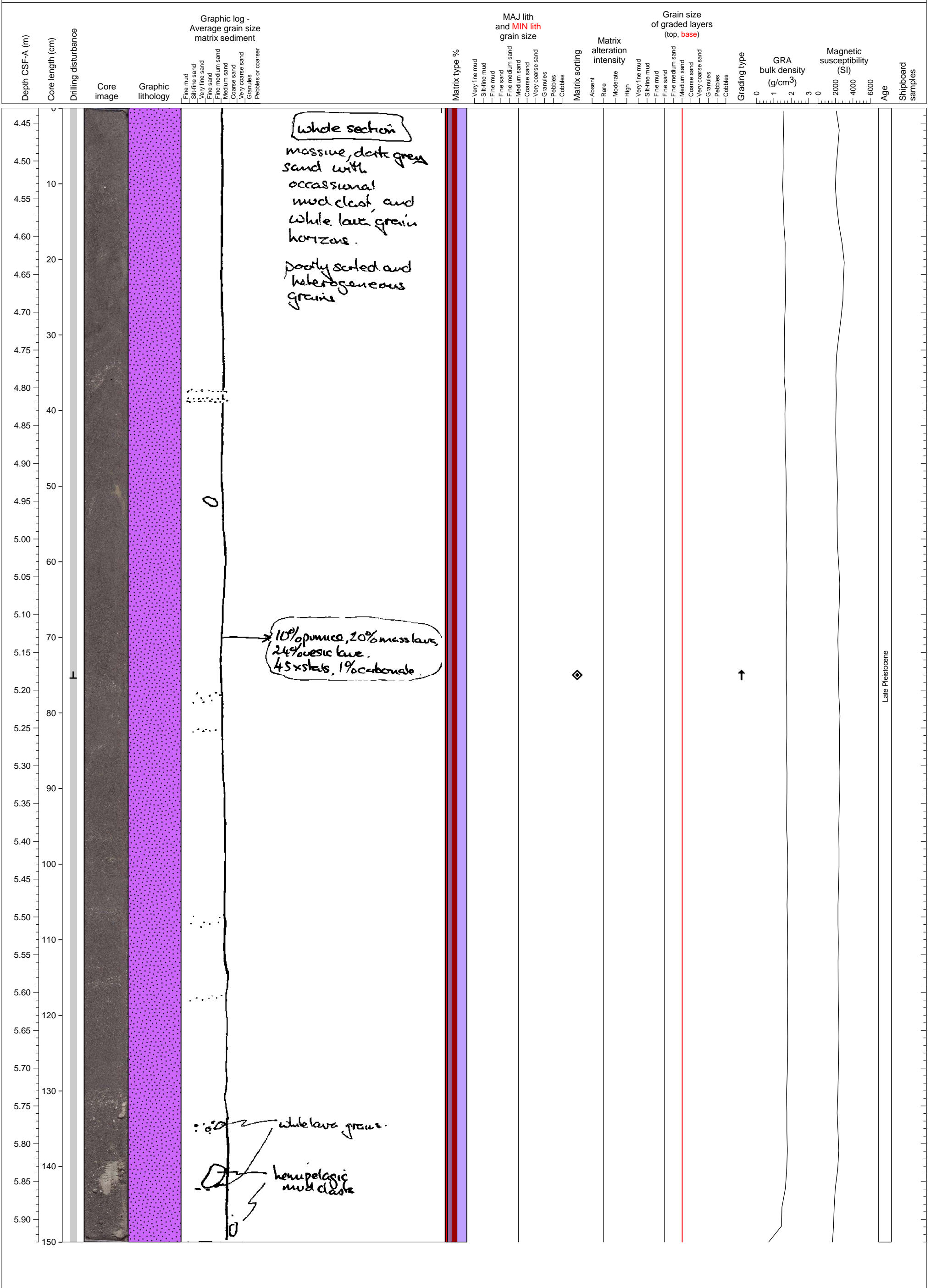




Volcaniclastic sand units interlayered with hemipelagic sediments.

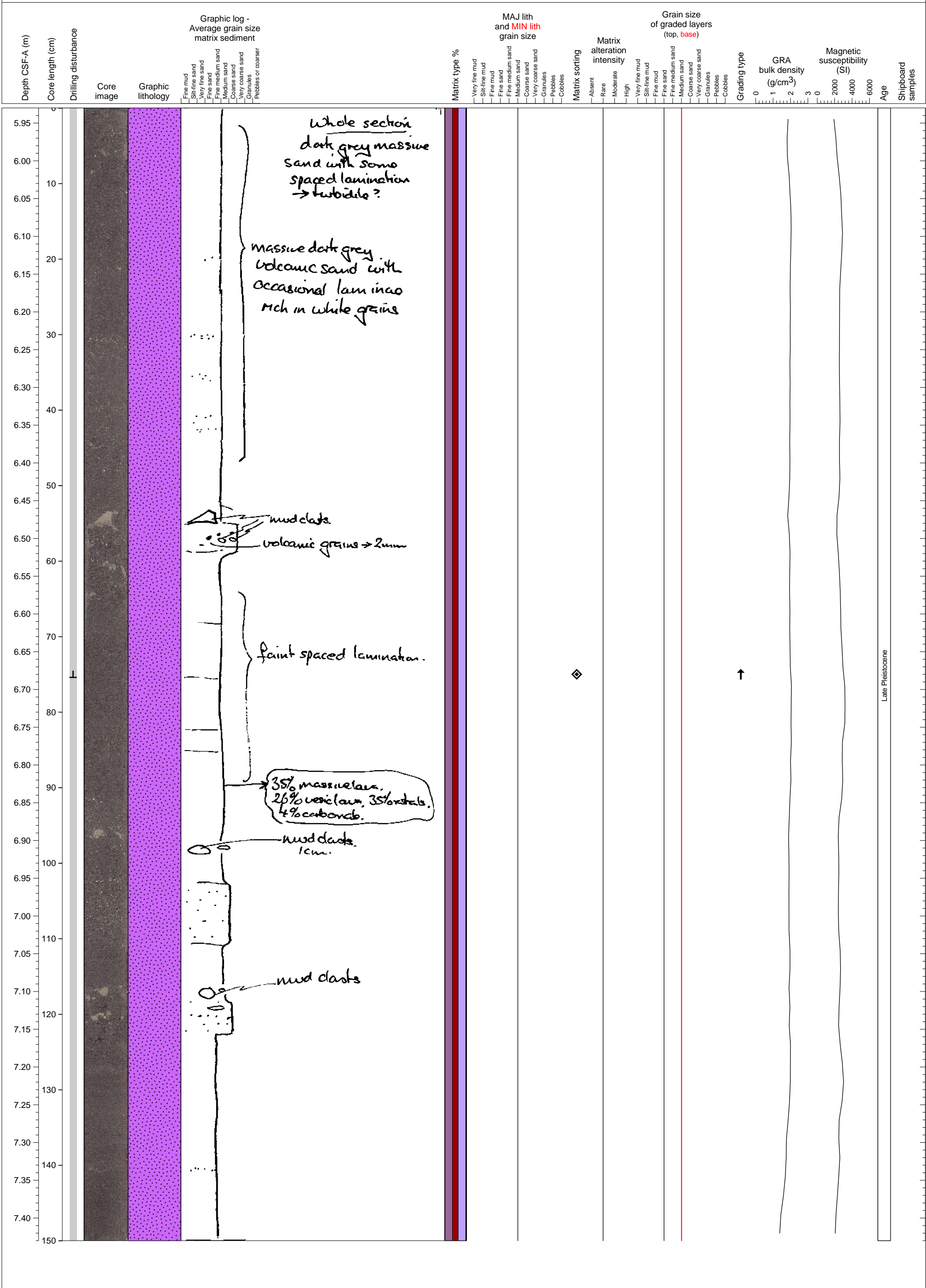


Six normally graded volcaniclastic sand units.

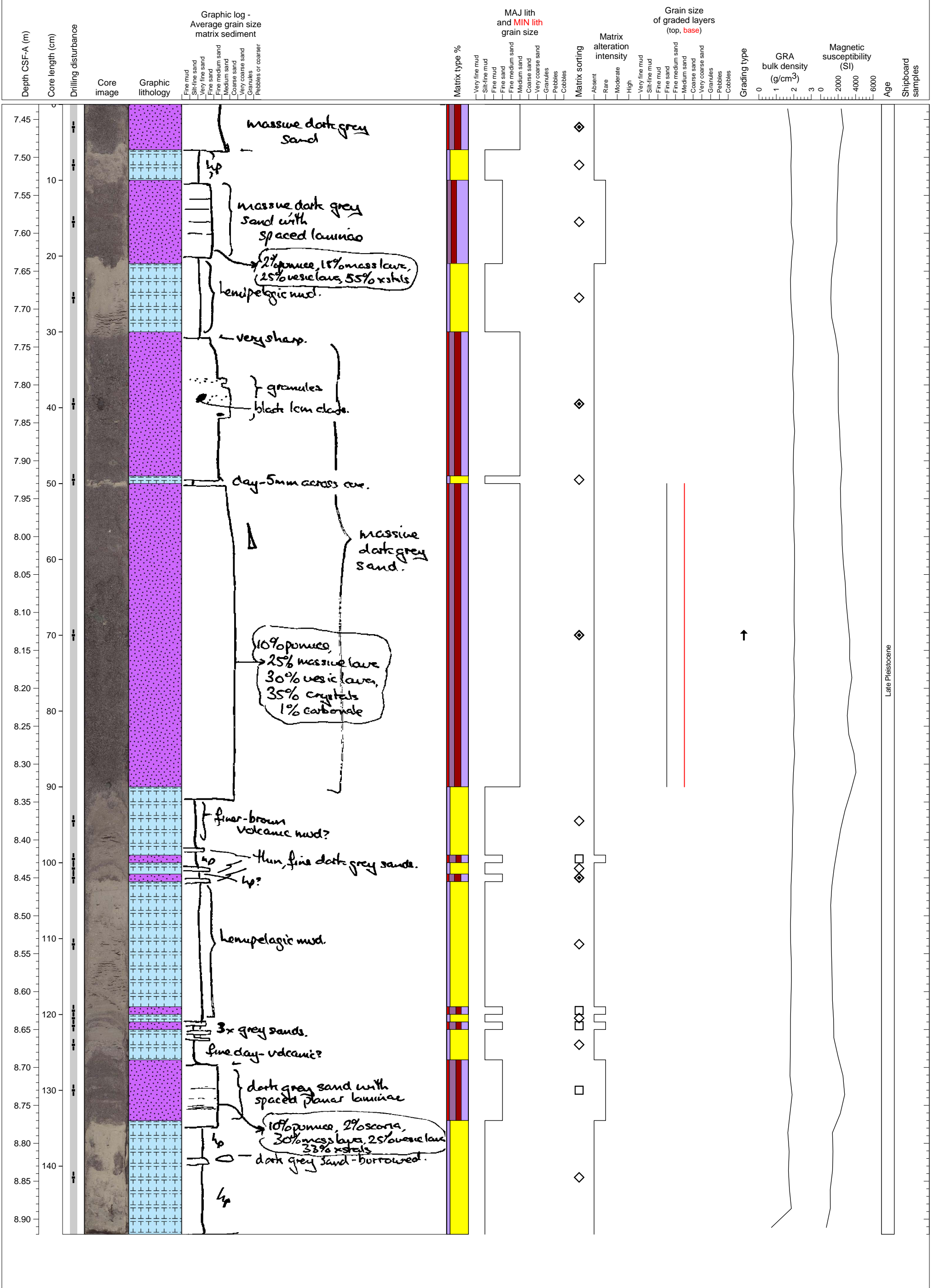




Five normally graded units of volcanoclastic sand.



Hemipelagic clay interlayered with abundant volcanoclastic sand units.





Complex mixture of volcanoclastic mud and sand overlying hemipelagic clay. PAL sample from section base.

