

**SM-111**

**IMAGEM 2D**

UHE ITAOCARA

Borehole: SM-111

BARRAMENTO M.E.

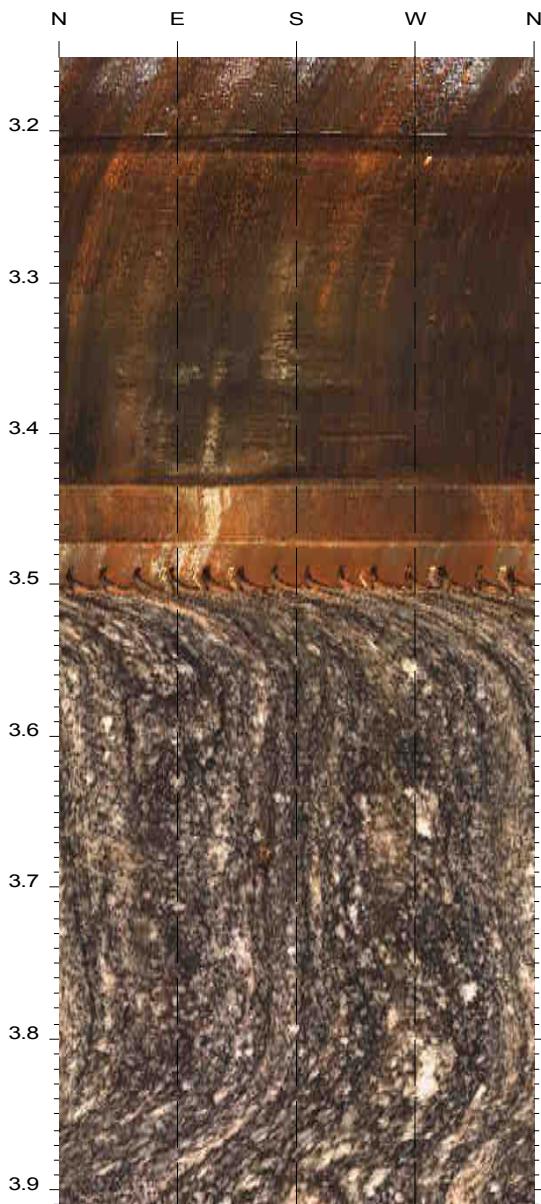
top of borehole.....

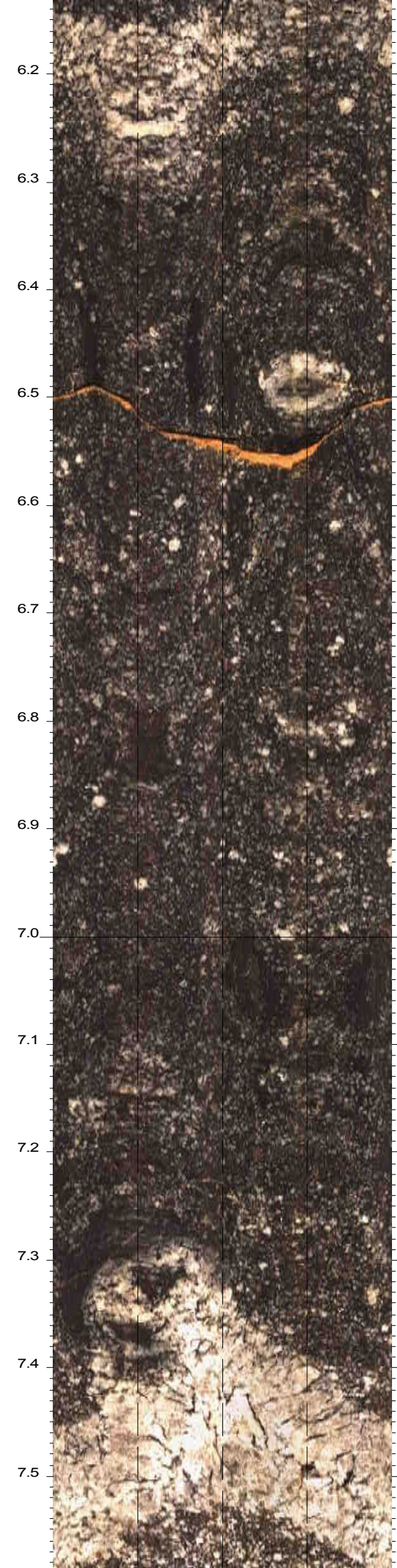
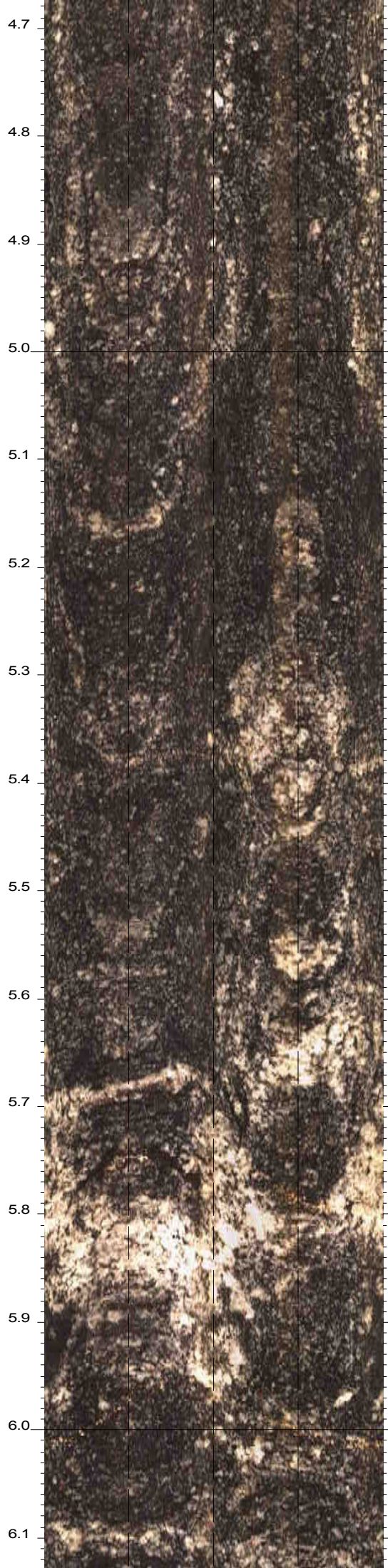
East:  
North:  
Elev:

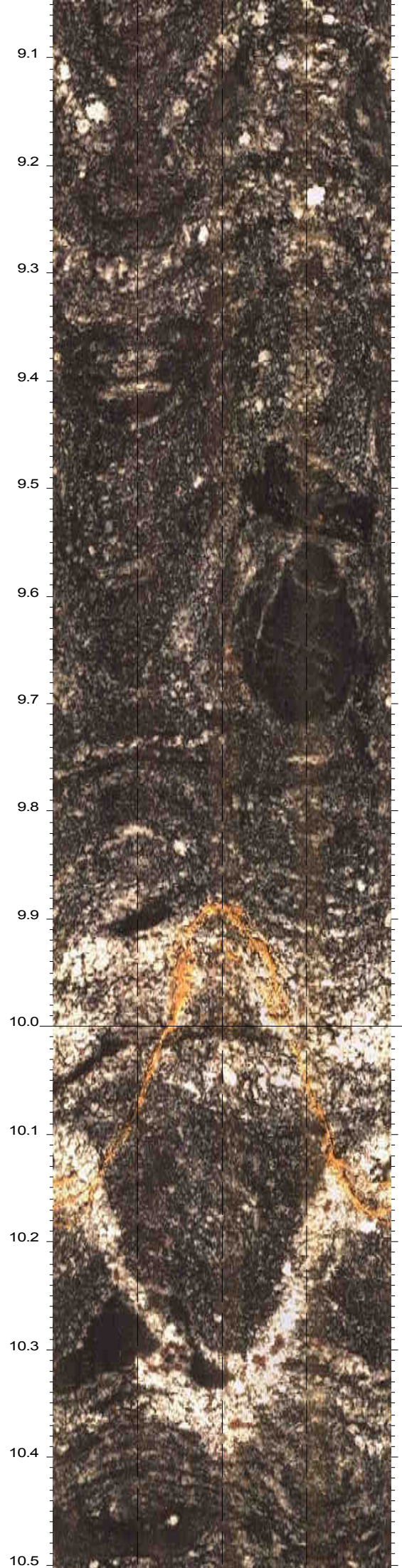
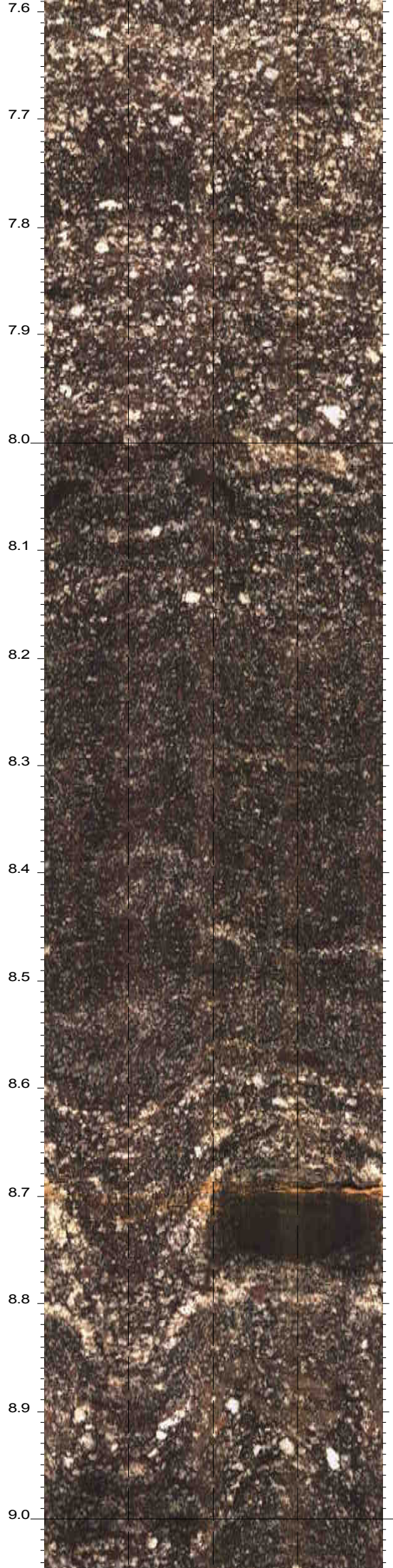
North ref. is magnetic  
Depth units are metres  
Vertical scale: 1/5  
Horiz scale = vert scale

Zone from 32.8686 to 3.1500m  
Format: BHTV NESWN

Borehole diam: 10.000cm  
data intervals.....  
Azimuth: 0.6667deg  
Depth: 0.0014m







10.6  
10.7  
10.8  
10.9  
11.0  
11.1  
11.2  
11.3  
11.4  
11.5  
11.6  
11.7  
11.8  
11.9



12.0  
12.1  
12.2  
12.3  
12.4  
12.5  
12.6  
12.7  
12.8  
12.9  
13.0  
13.1  
13.2  
13.3  
13.4



13.5  
13.6  
13.7  
13.8  
13.9  
14.0  
14.1  
14.2  
14.3  
14.4  
14.5  
14.6  
14.7  
14.8

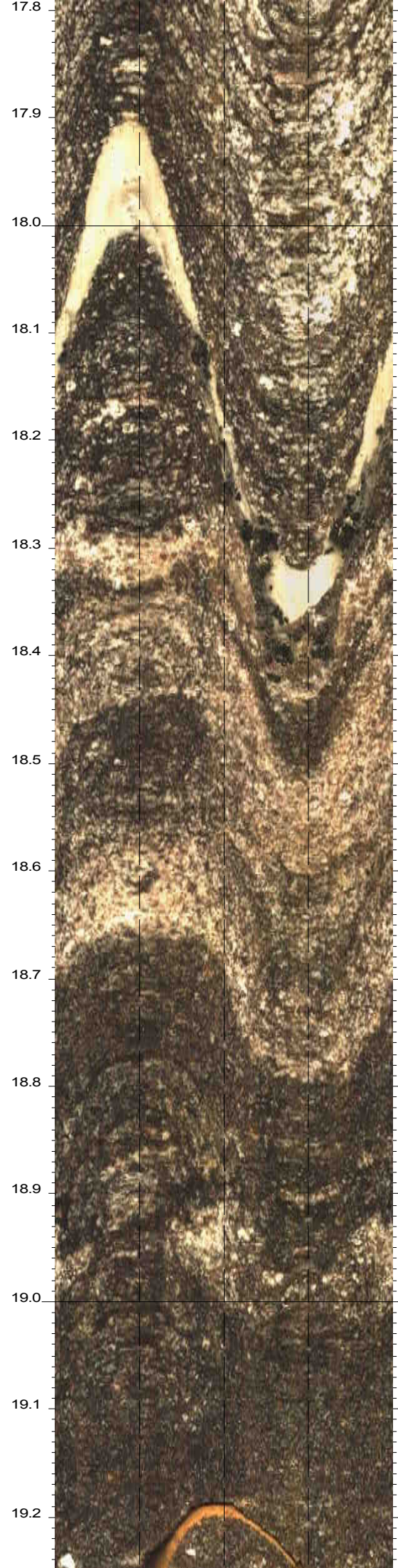


14.9  
15.0  
15.1  
15.2  
15.3  
15.4  
15.5  
15.6  
15.7  
15.8  
15.9  
16.0  
16.1  
16.2  
16.3





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19.2472 to 16.3324m

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19.3  
19.4  
19.5  
19.6  
19.7  
19.8  
19.9  
20.0  
20.1  
20.2  
20.3  
20.4  
20.5  
20.6  
20.7



20.8  
20.9  
21.0  
21.1  
21.2  
21.3  
21.4  
21.5  
21.6  
21.7  
21.8  
21.9  
22.0  
22.1



22.2  
22.3  
22.4  
22.5  
22.6  
22.7  
22.8  
22.9  
23.0  
23.1  
23.2  
23.3  
23.4  
23.5  
23.6

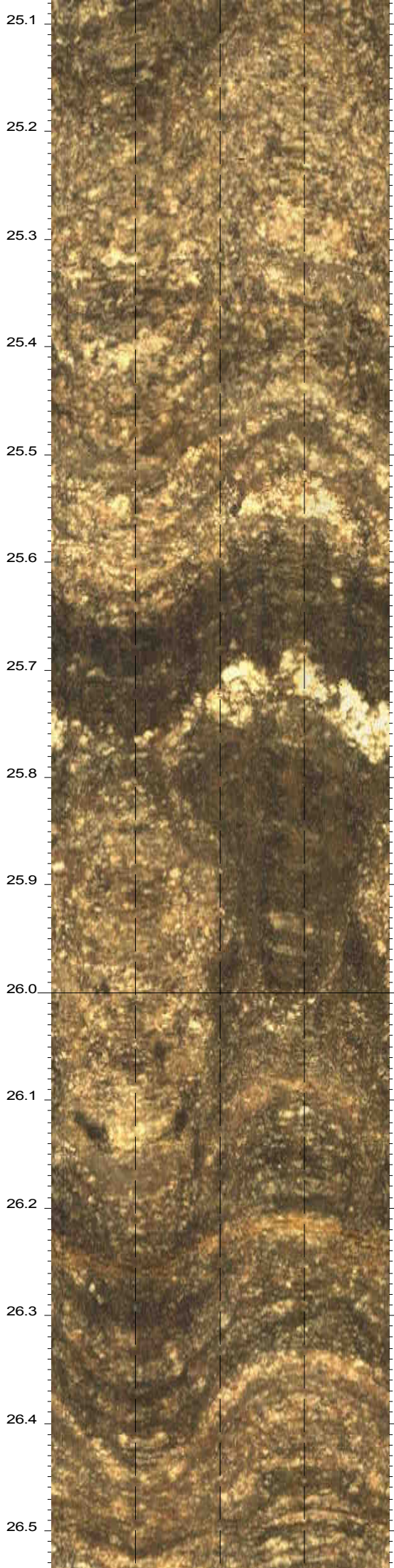


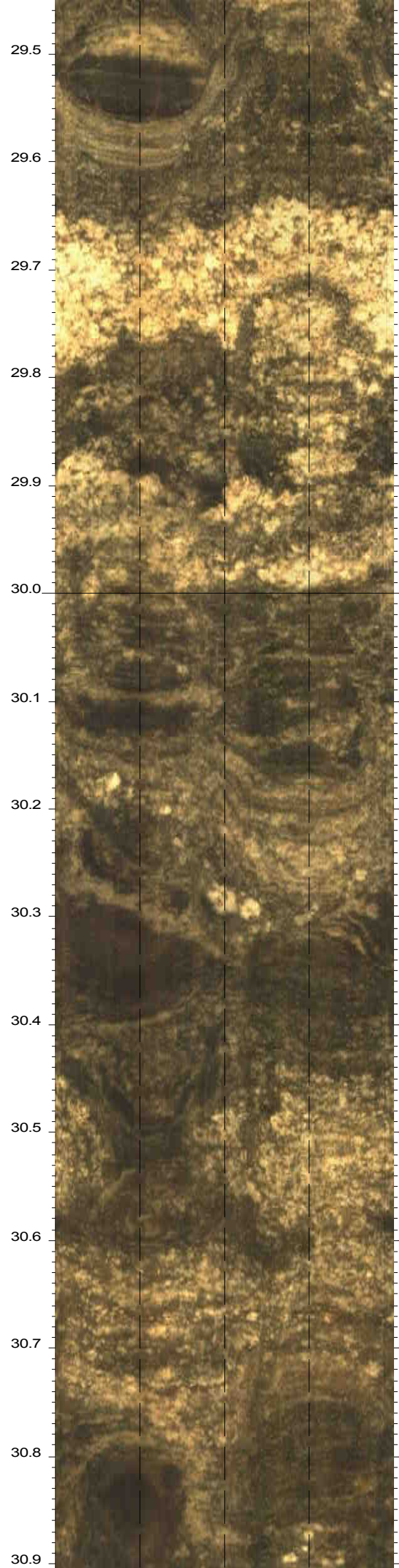
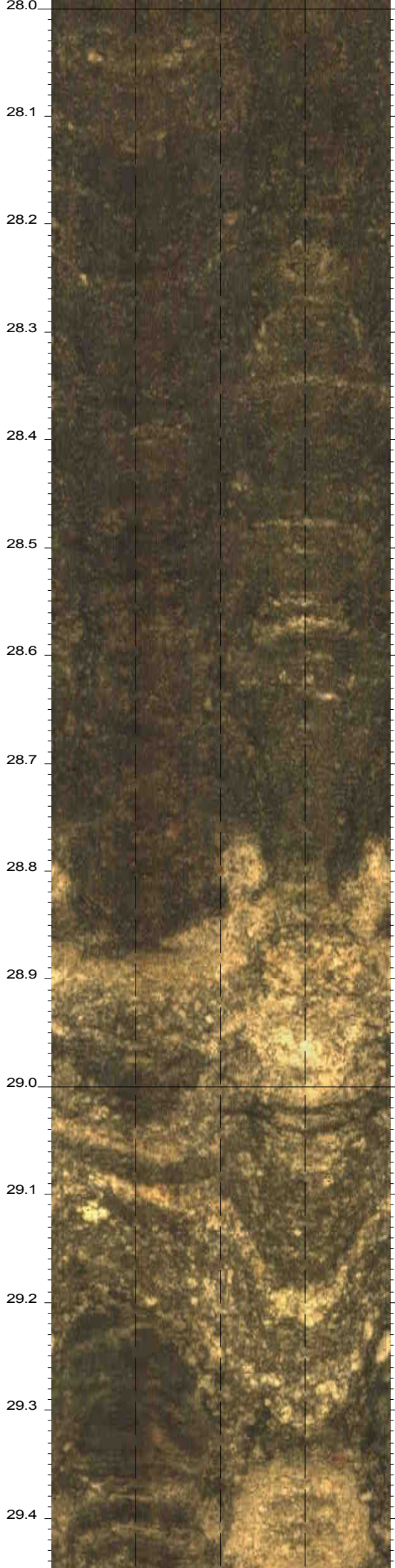
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23.7  
23.8  
23.9  
24.0  
24.1  
24.2  
24.3  
24.4  
24.5  
24.6  
24.7  
24.8  
24.9  
25.0



25.0768 to 22.1620m





31.0  
31.1  
31.2  
31.3  
31.4  
31.5  
31.6  
31.7  
31.8



31.9  
32.0  
32.1  
32.2  
32.3  
32.4  
32.5  
32.6  
32.7  
32.8



# **TESTEMUNHO VIRTUAL**

UHE ITAOCARA

Borehole: SM-111

BARRAMENTO M.E.

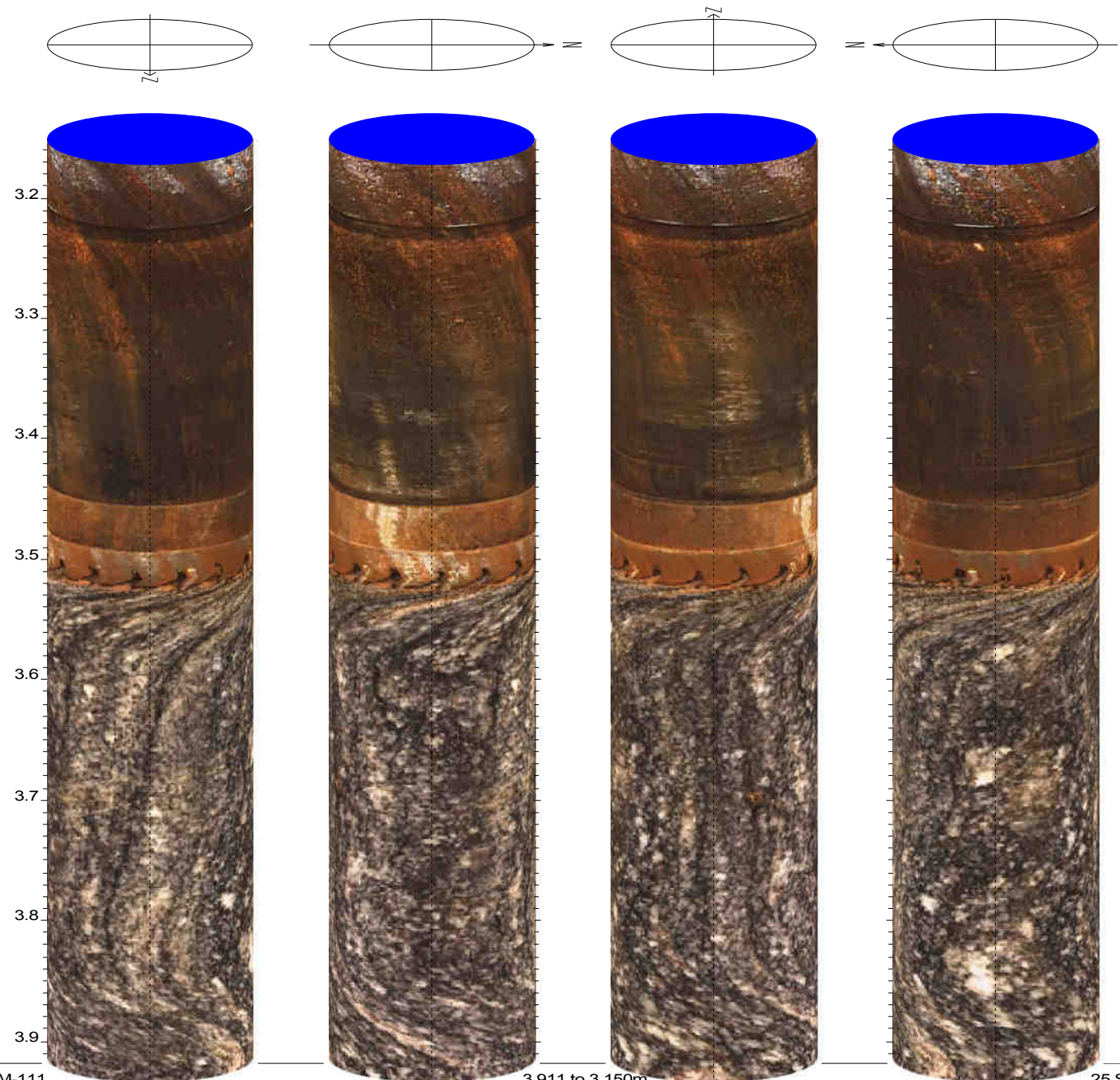
top of borehole.....

East:  
North:  
Elev:

North ref. is magnetic  
Depth units are metres  
Vertical scale: 1/5

Zone from 32.869 to 3.150m  
Cores oriented: N000 N090 N180 N270

Borehole diam: 10.000cm  
data intervals .....  
radial: 0.6667deg  
axial: 0.0014m



4.0  
4.1  
4.2  
4.3  
4.4  
4.5  
4.6  
4.7  
4.8  
4.9  
5.0  
5.1  
5.2  
5.3

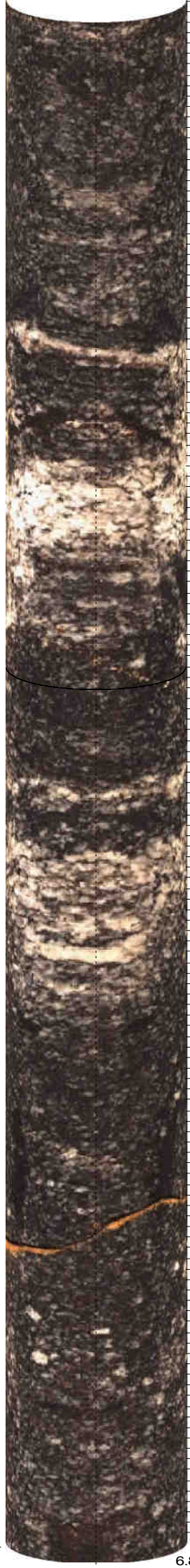




5.4  
5.5  
5.6  
5.7  
5.8  
5.9  
6.0  
6.1  
6.2  
6.3  
6.4  
6.5  
6.6  
6.7  
6.8



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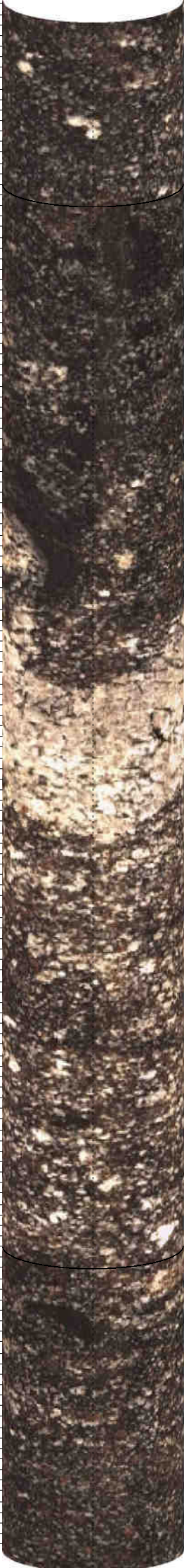


6.826 to 5.369m



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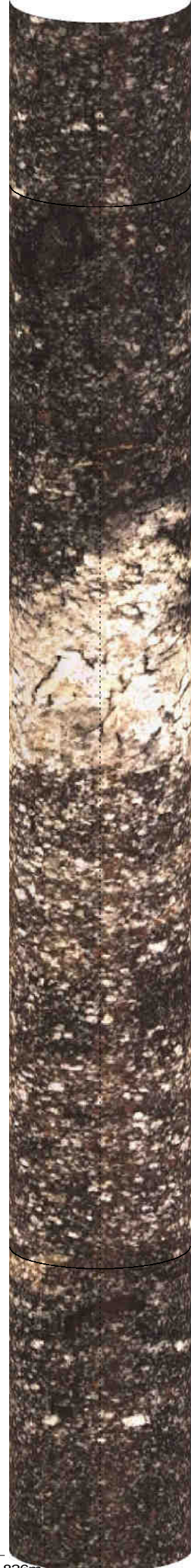
6.9  
7.0  
7.1  
7.2  
7.3  
7.4  
7.5  
7.6  
7.7  
7.8  
7.9  
8.0  
8.1  
8.2



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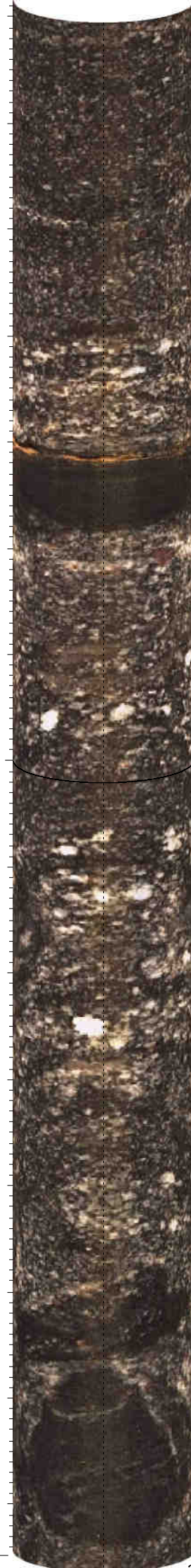
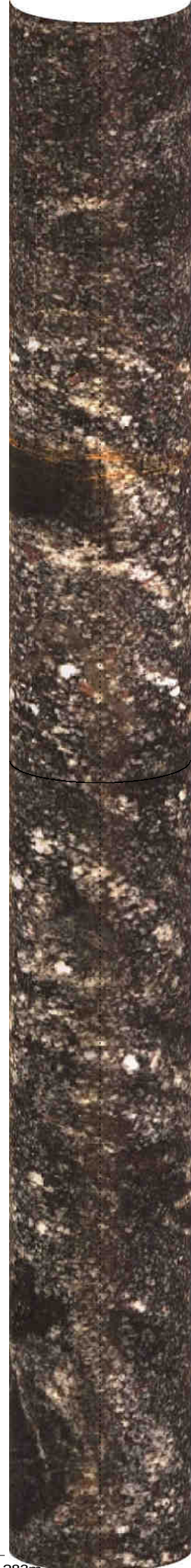
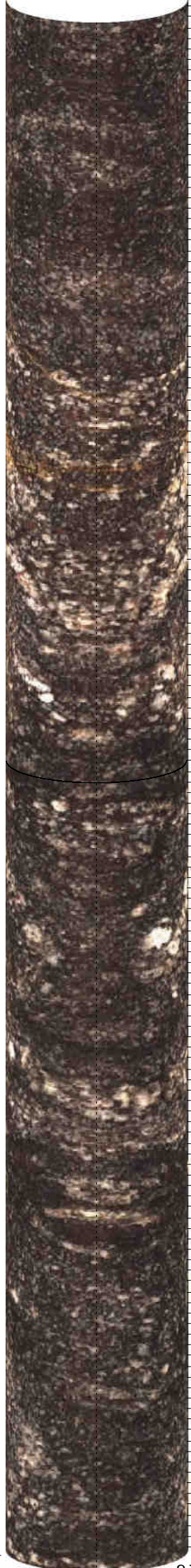
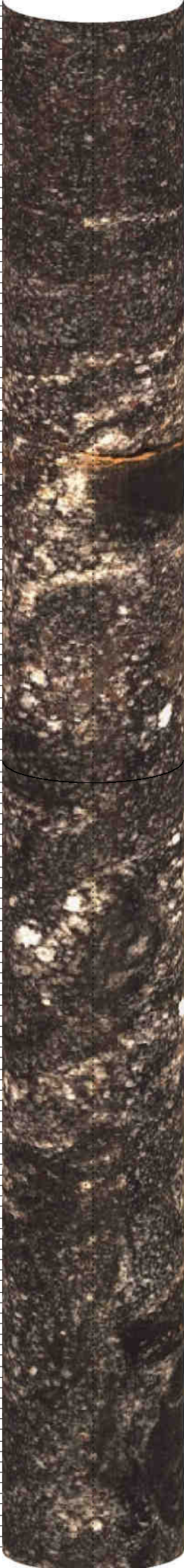


8.283 to 6.826m



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8.3  
8.4  
8.5  
8.6  
8.7  
8.8  
8.9  
9.0  
9.1  
9.2  
9.3  
9.4  
9.5  
9.6  
9.7



9.8  
9.9  
10.0  
10.1  
10.2  
10.3  
10.4  
10.5  
10.6  
10.7  
10.8  
10.9  
11.0  
11.1



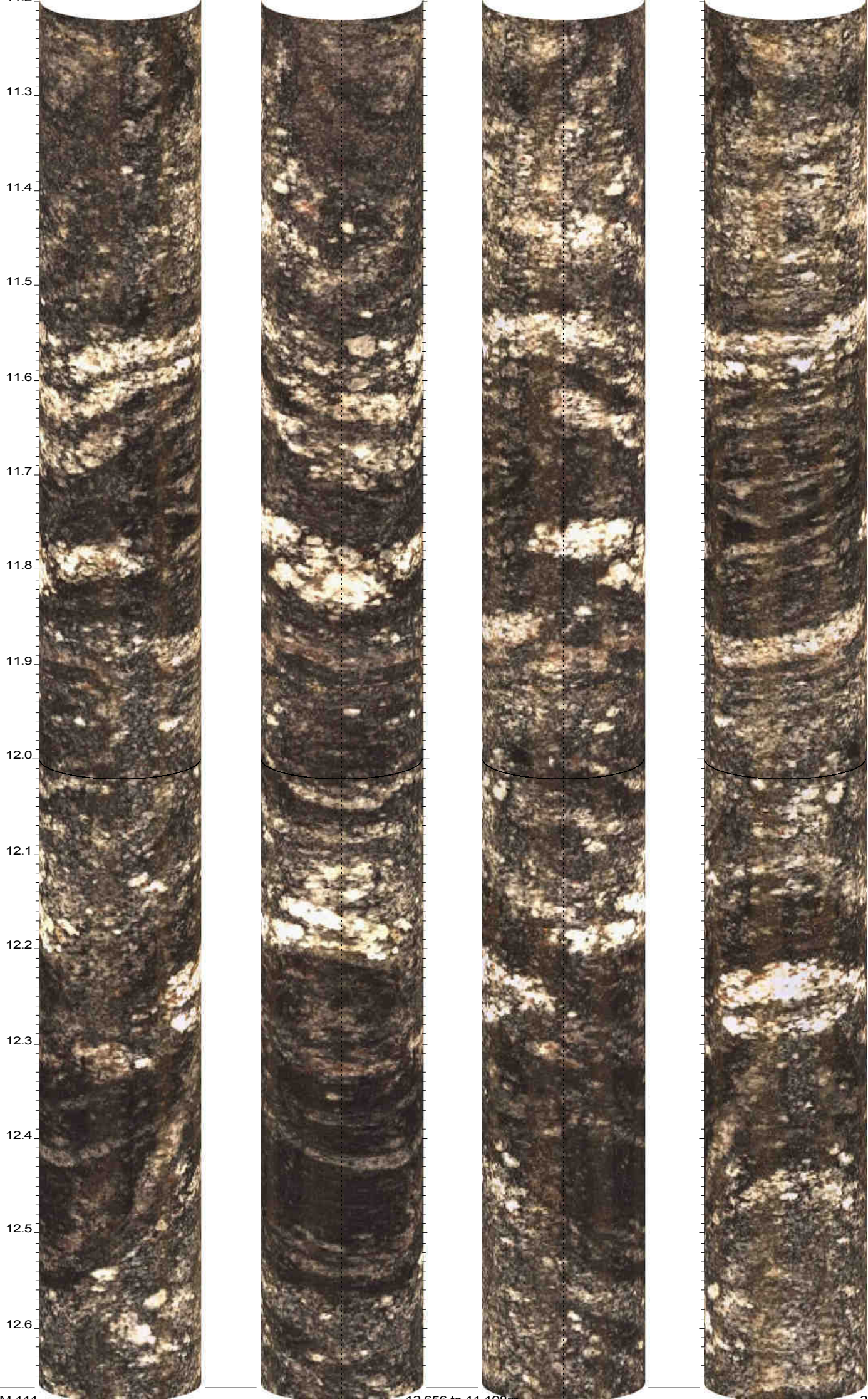
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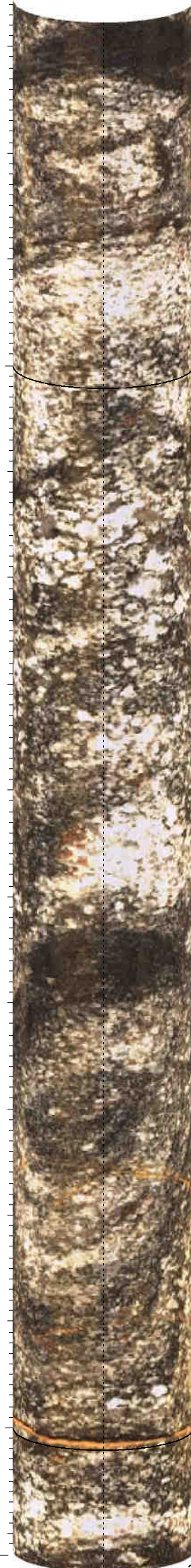
11.198 to 9.741m



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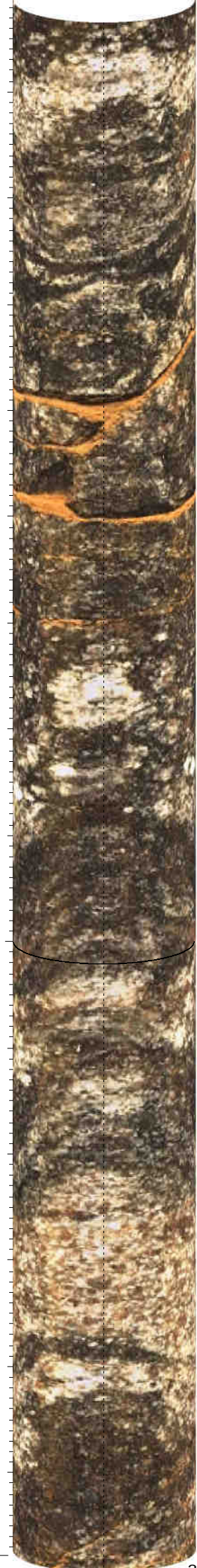
12.7  
12.8  
12.9  
13.0  
13.1  
13.2  
13.3  
13.4  
13.5  
13.6  
13.7  
13.8  
13.9  
14.0  
14.1



14.2  
14.3  
14.4  
14.5  
14.6  
14.7  
14.8  
14.9  
15.0  
15.1  
15.2  
15.3  
15.4  
15.5



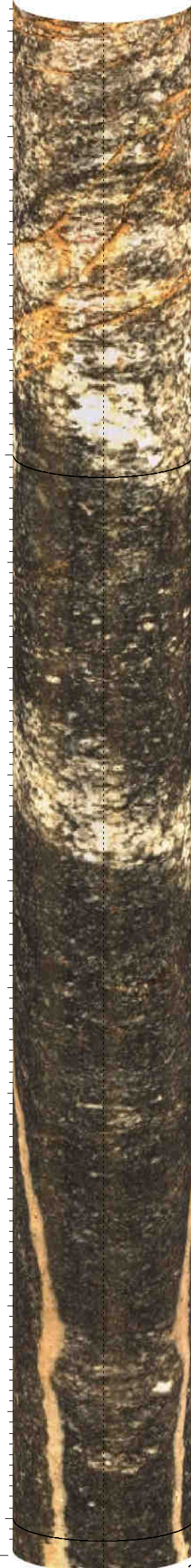
15.570 to 14.113m



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15.6  
15.7  
15.8  
15.9  
16.0  
16.1  
16.2  
16.3  
16.4  
16.5  
16.6  
16.7  
16.8  
16.9  
17.0





17.1  
17.2  
17.3  
17.4  
17.5  
17.6  
17.7  
17.8  
17.9  
18.0  
18.1  
18.2  
18.3  
18.4



18.485 to 17.028m



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18.5  
18.6  
18.7  
18.8  
18.9  
19.0  
19.1  
19.2  
19.3  
19.4  
19.5  
19.6  
19.7  
19.8  
19.9



20.0  
20.1  
20.2  
20.3  
20.4  
20.5  
20.6  
20.7  
20.8  
20.9  
21.0  
21.1  
21.2  
21.3  
21.4

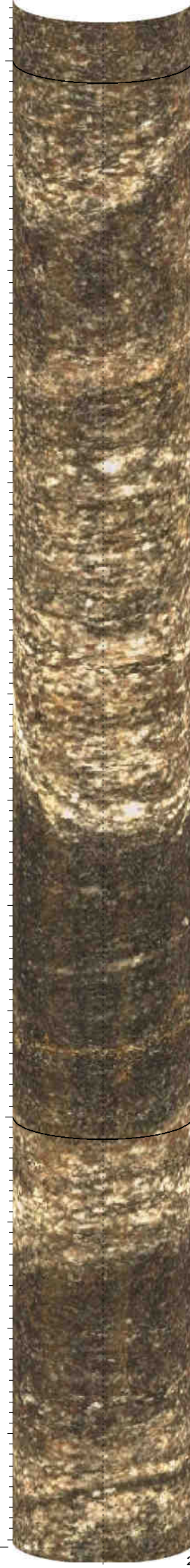
SM-111



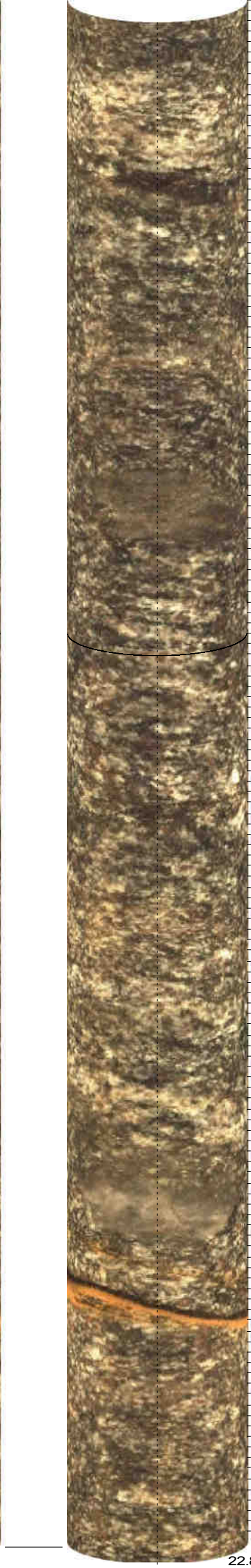
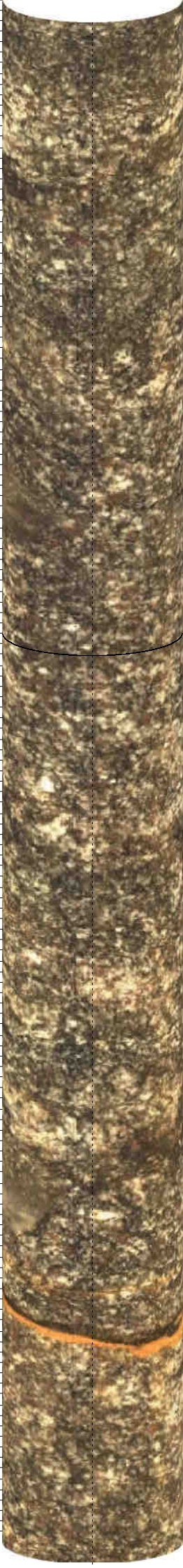
21.400 to 19.943m



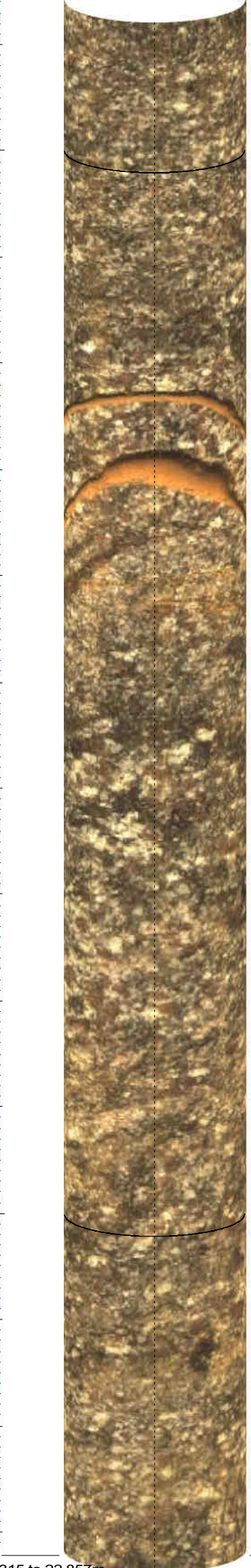
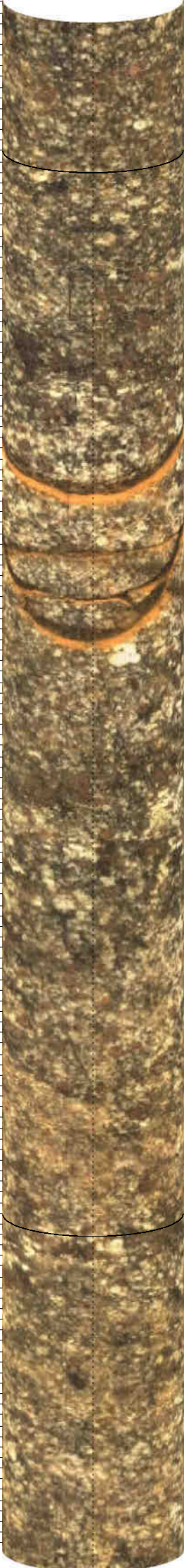
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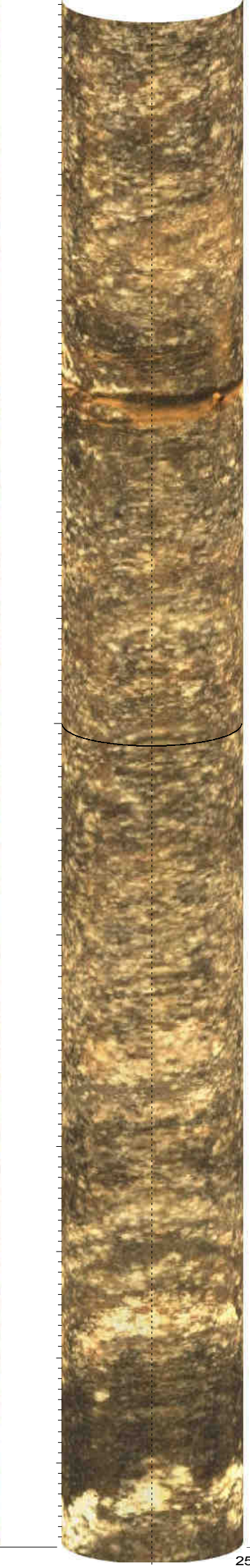
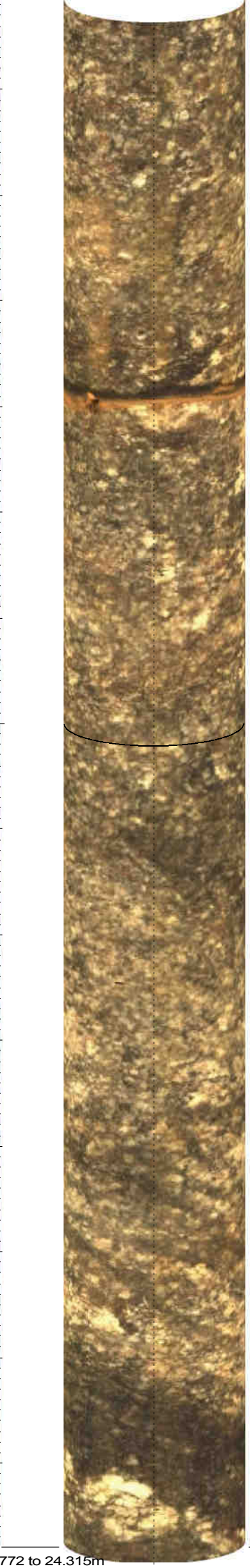
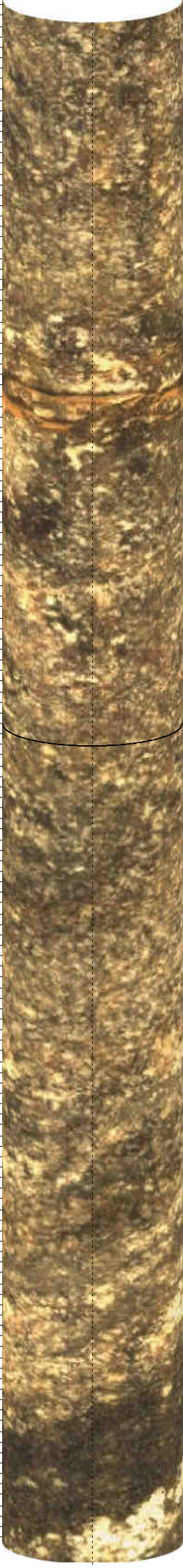
21.5  
21.6  
21.7  
21.8  
21.9  
22.0  
22.1  
22.2  
22.3  
22.4  
22.5  
22.6  
22.7  
22.8

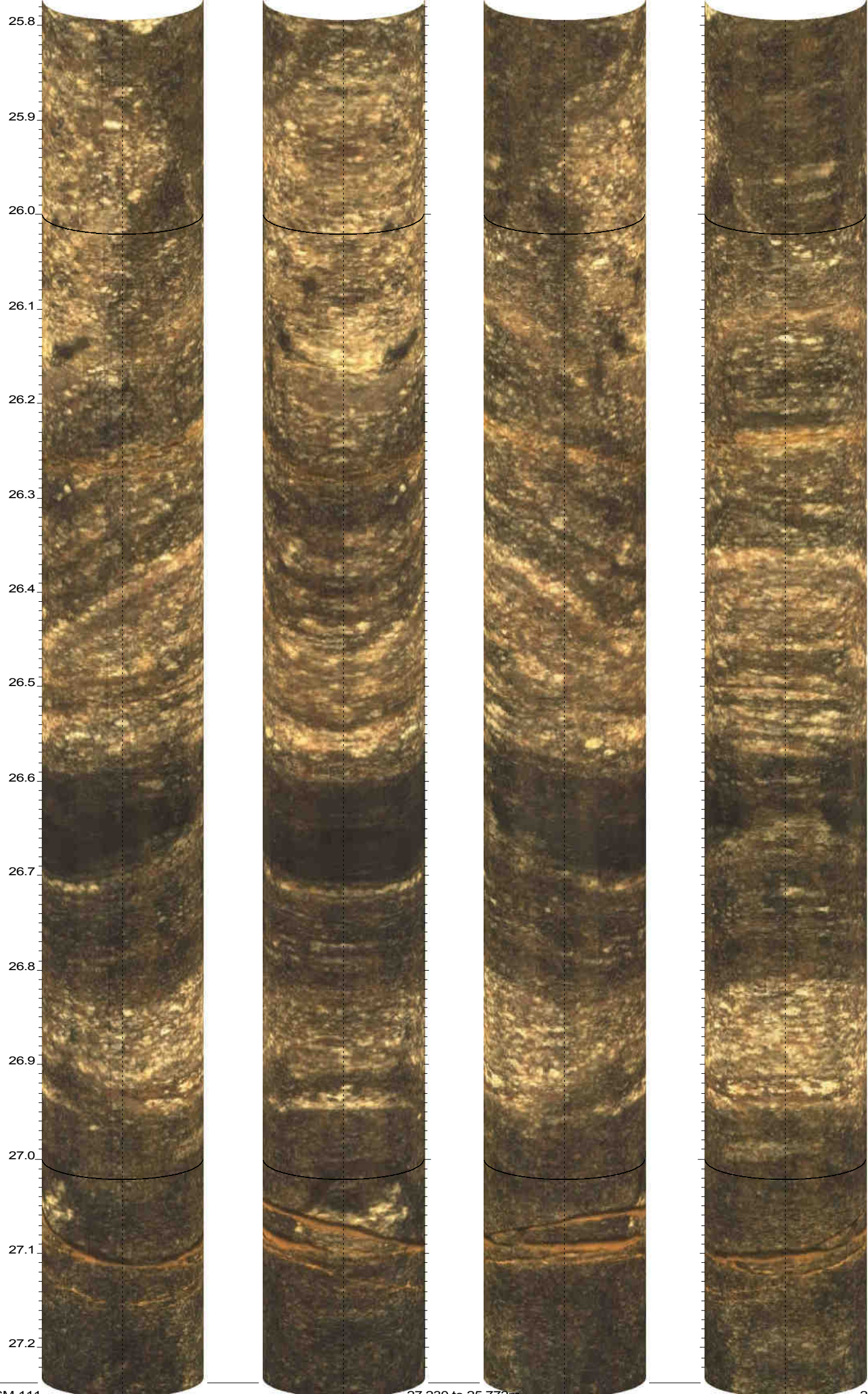


22.9  
23.0  
23.1  
23.2  
23.3  
23.4  
23.5  
23.6  
23.7  
23.8  
23.9  
24.0  
24.1  
24.2  
24.3



24.4  
24.5  
24.6  
24.7  
24.8  
24.9  
25.0  
25.1  
25.2  
25.3  
25.4  
25.5  
25.6  
25.7





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27.230 to 25.772m

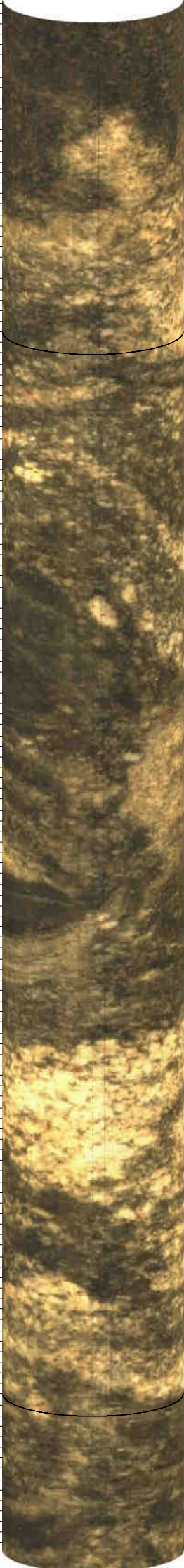
25 Sep 2015

27.3  
27.4  
27.5  
27.6  
27.7  
27.8  
27.9  
28.0  
28.1  
28.2  
28.3  
28.4  
28.5  
28.6





28.7  
28.8  
28.9  
29.0  
29.1  
29.2  
29.3  
29.4  
29.5  
29.6  
29.7  
29.8  
29.9  
30.0  
30.1



SM-111



30.144 to 28.687m



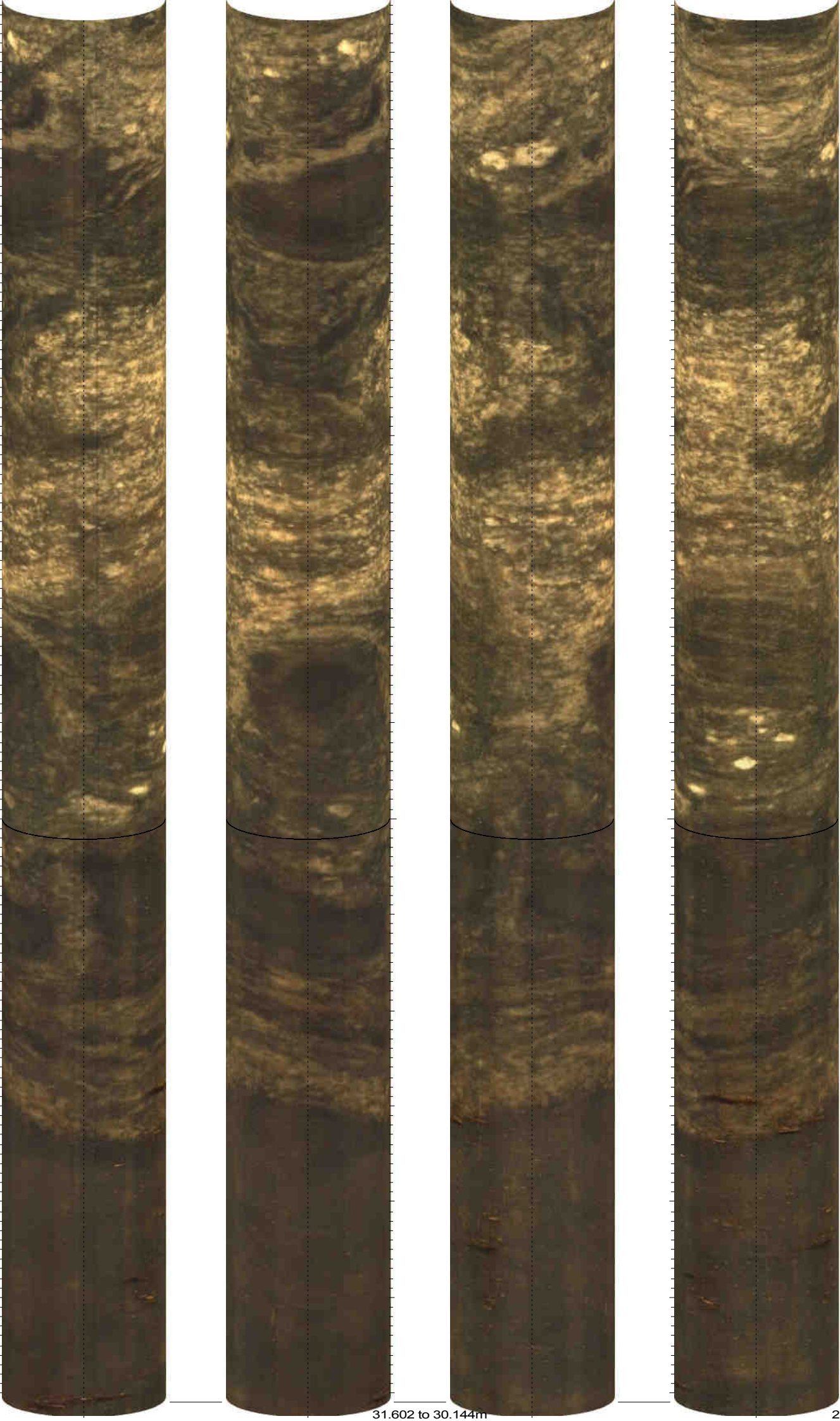
25 Sep 2015

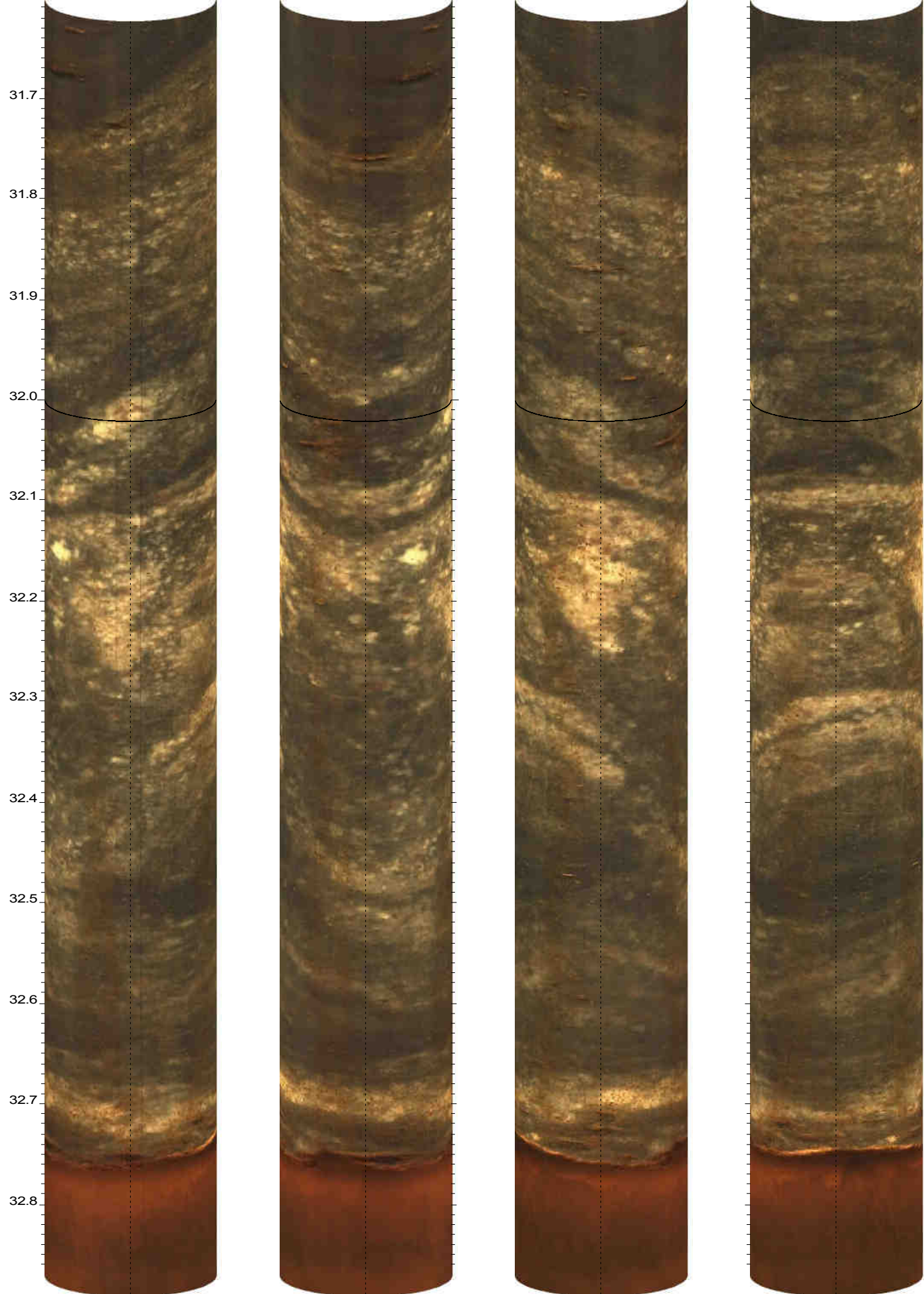
30.2  
30.3  
30.4  
30.5  
30.6  
30.7  
30.8  
30.9  
31.0  
31.1  
31.2  
31.3  
31.4  
31.5  
31.6

SM-111

31.602 to 30.144m

25 Sep 2015





**ATITUDES**  
**DESCONTINUIDADES**

UHE ITAOCARA

Borehole: SM-111

BARRAMENTO M.E.

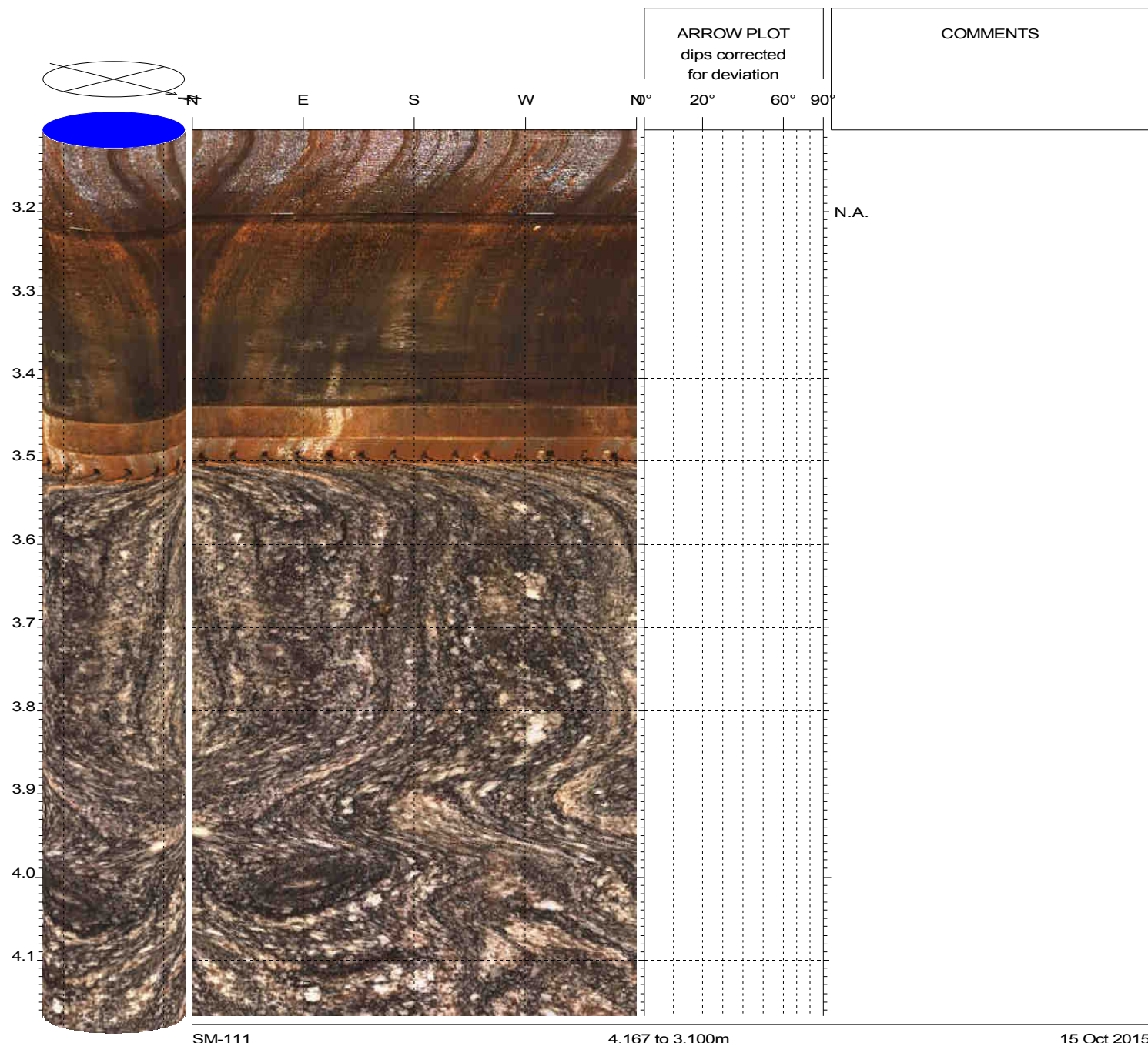
top of borehole.....

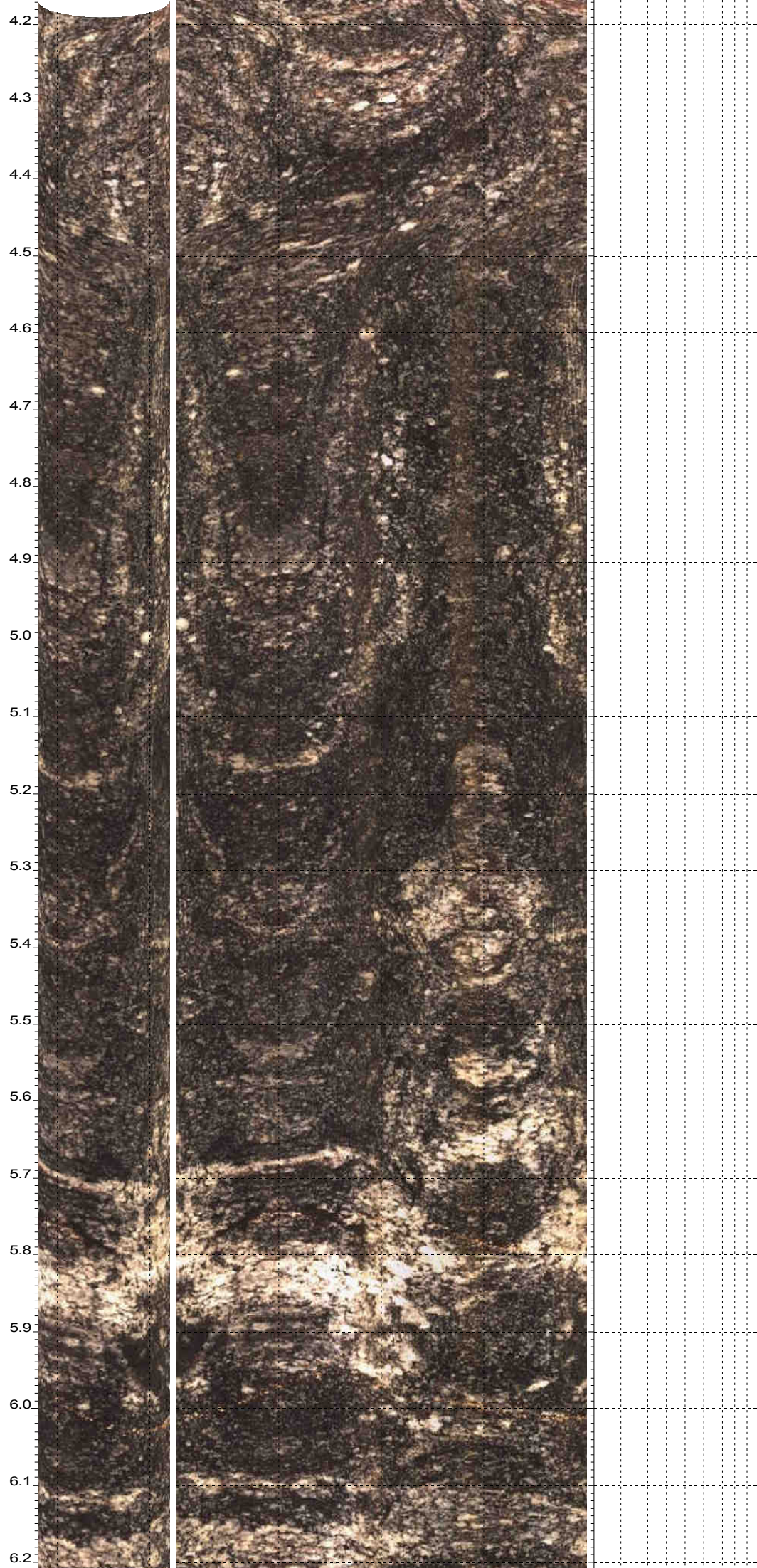
East:  
 North:  
 Elev:

North ref. is magnetic  
 Depth units are metres  
 Vertical scale: 1/7

Zone from 32.860 to 3.100m  
 Format: BHTV-NESWN

Borehole diam: 10.000cm  
 Vertical = borehole-axis

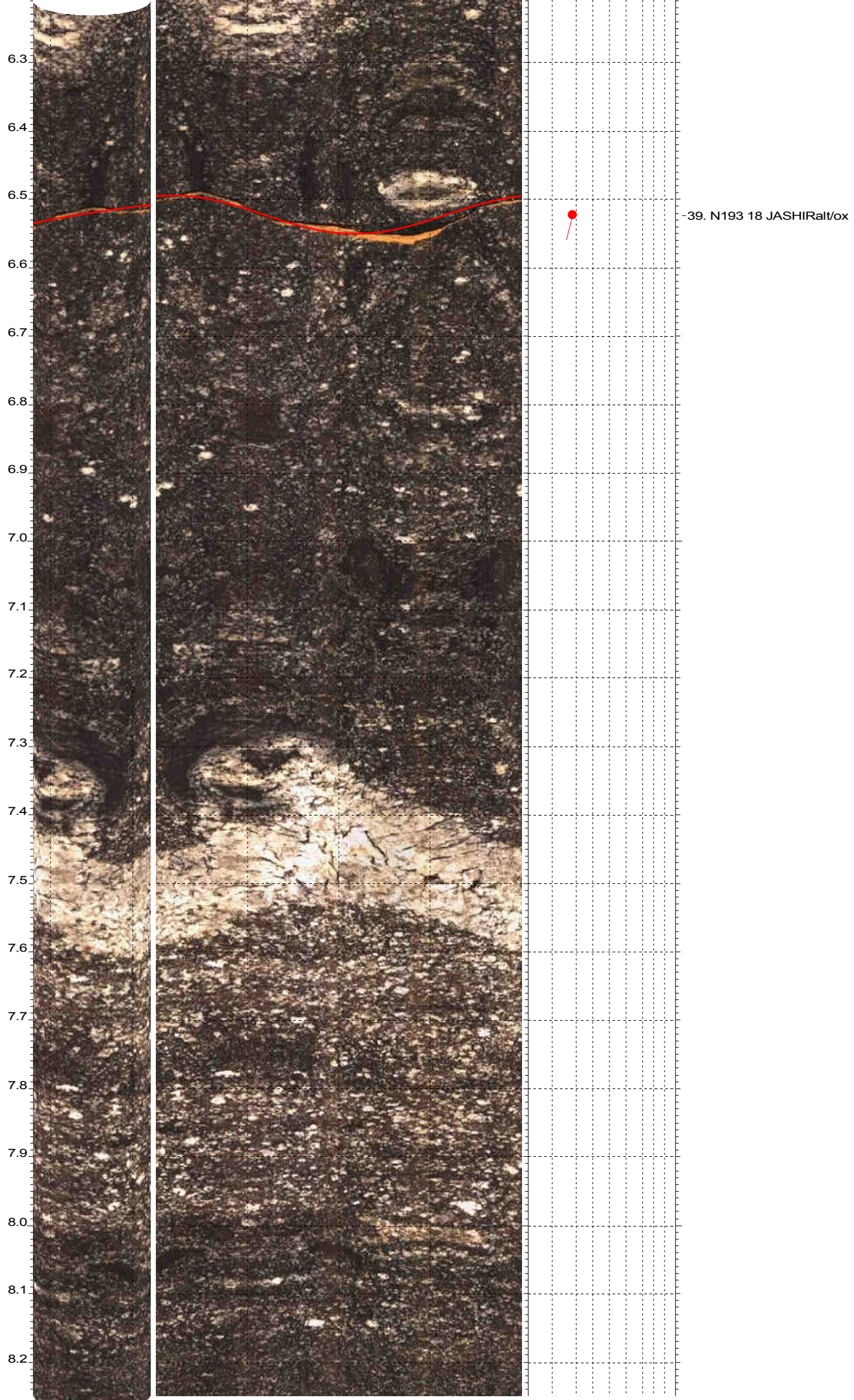


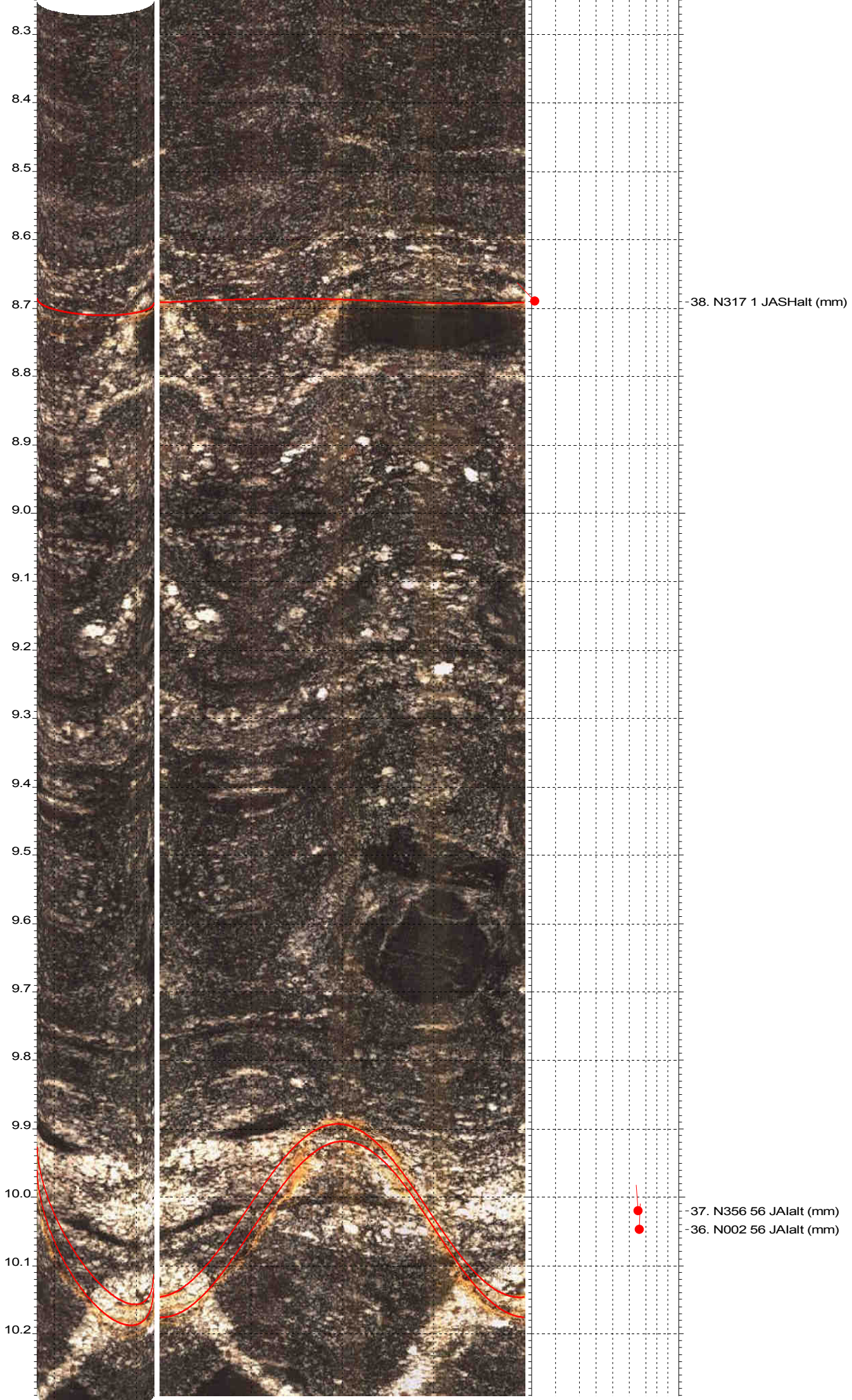


SM-111

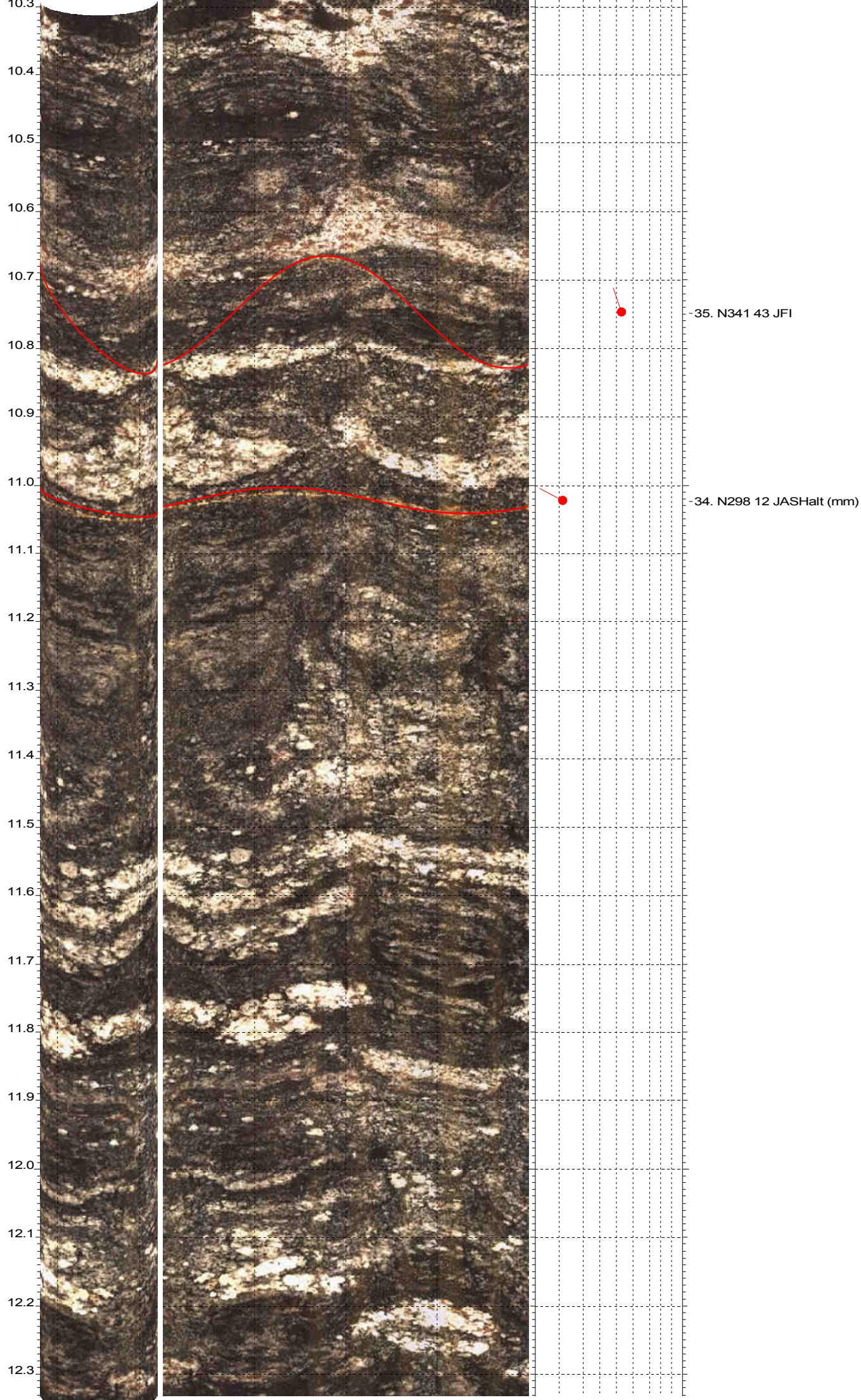
6.208 to 4.167m

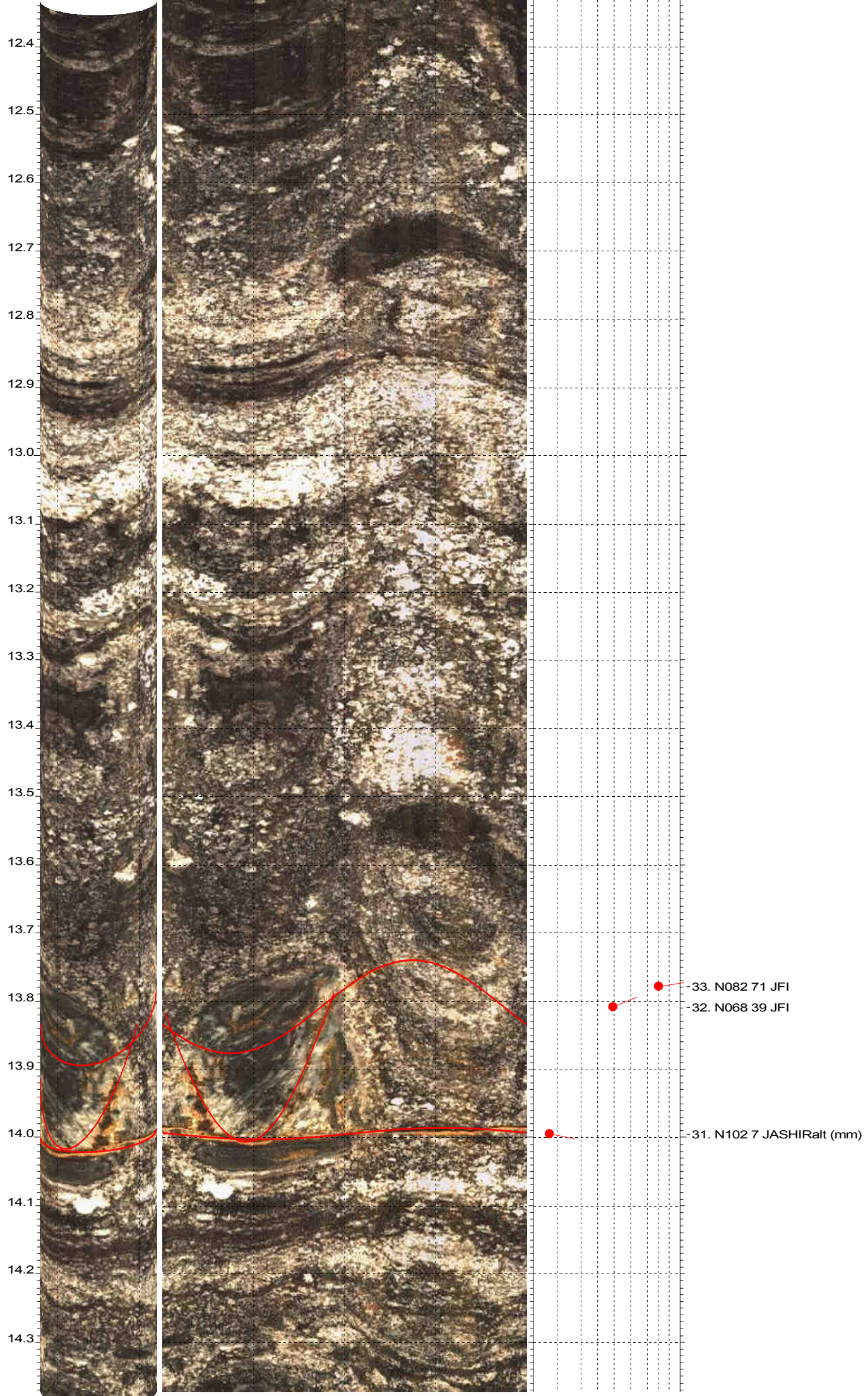
15 Oct 2015







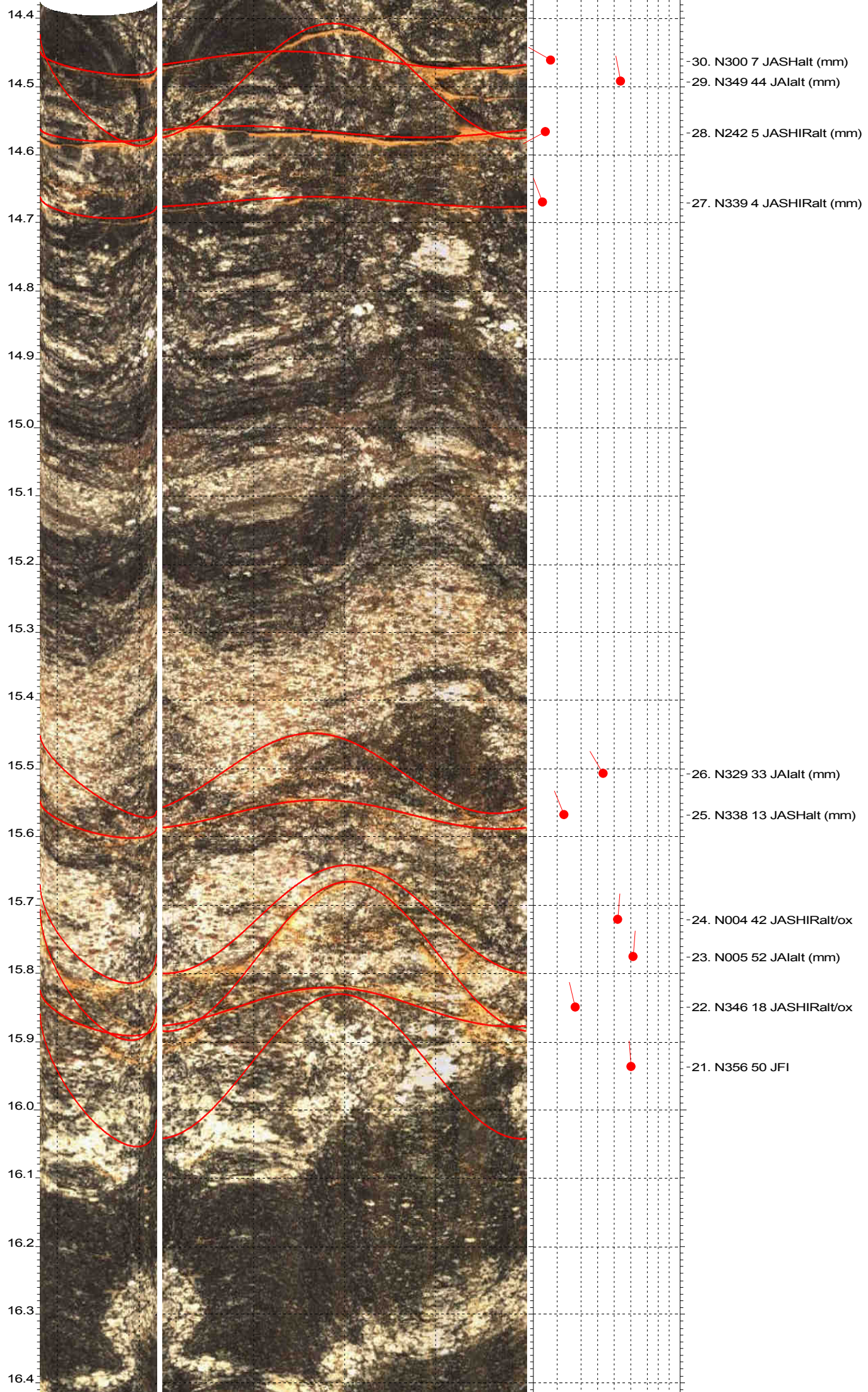


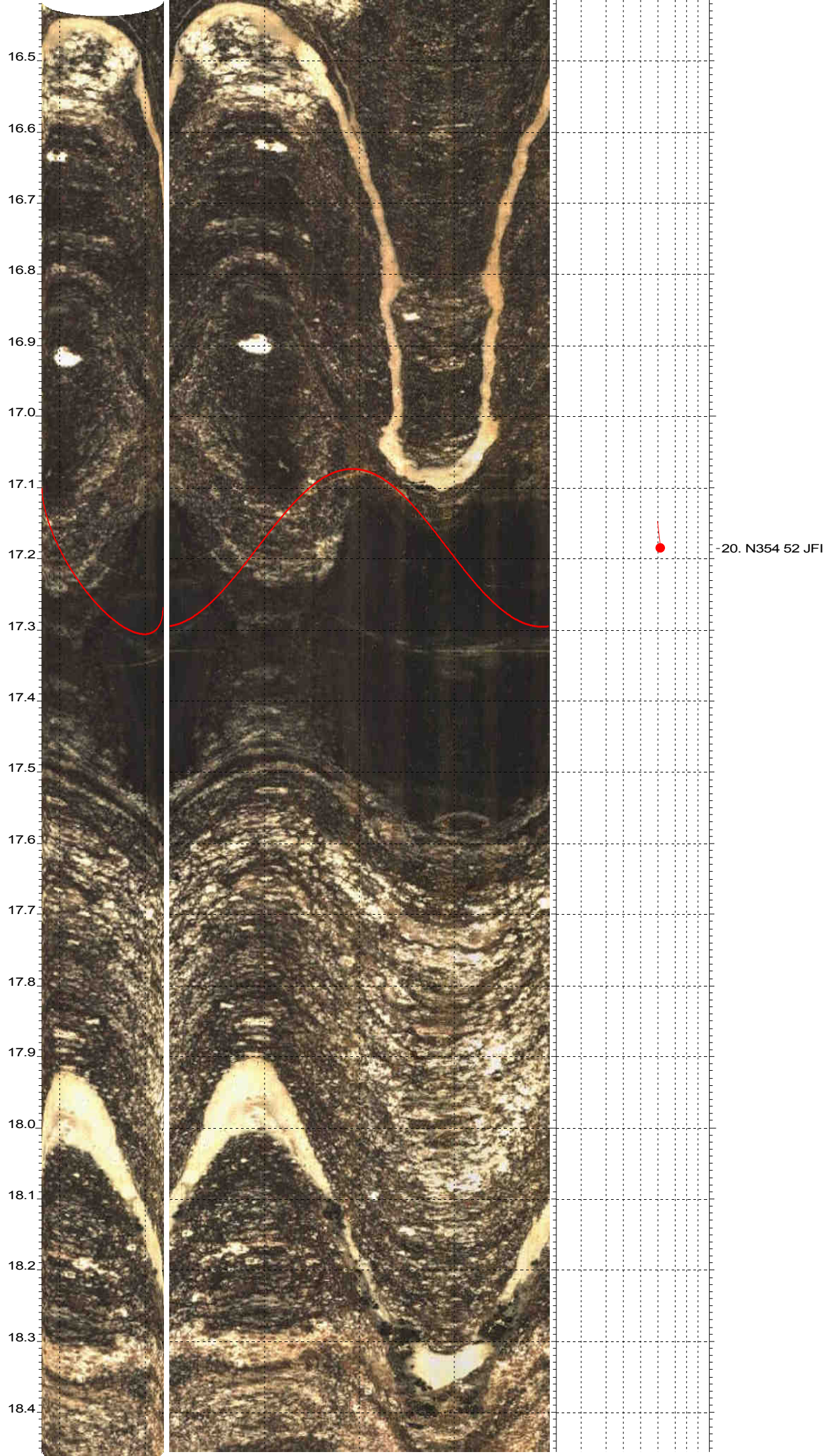


SM-111

14.373 to 12.331m

15 Oct 2015





SM-111

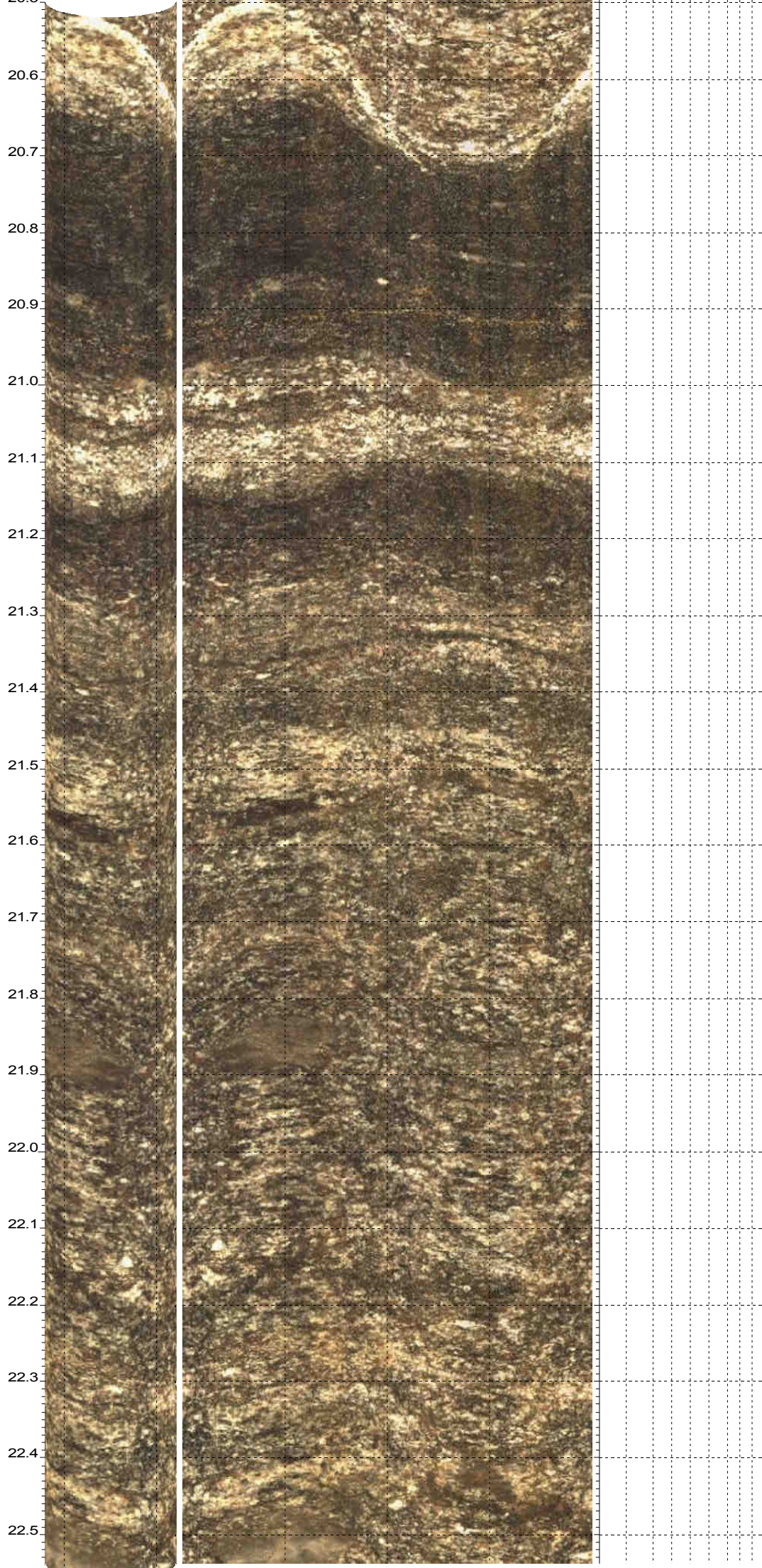
18.455 to 16.414m

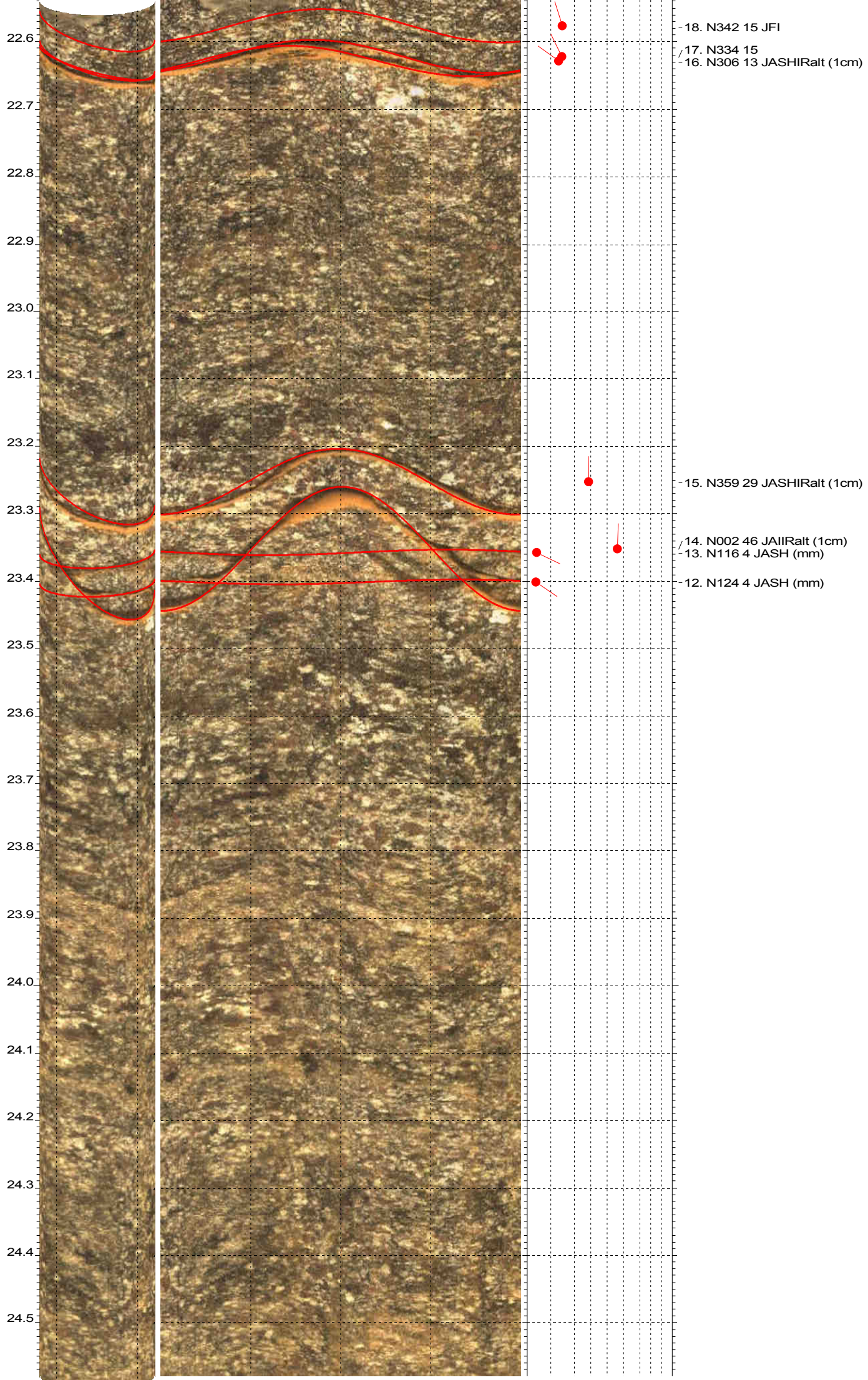
15 Oct 2015

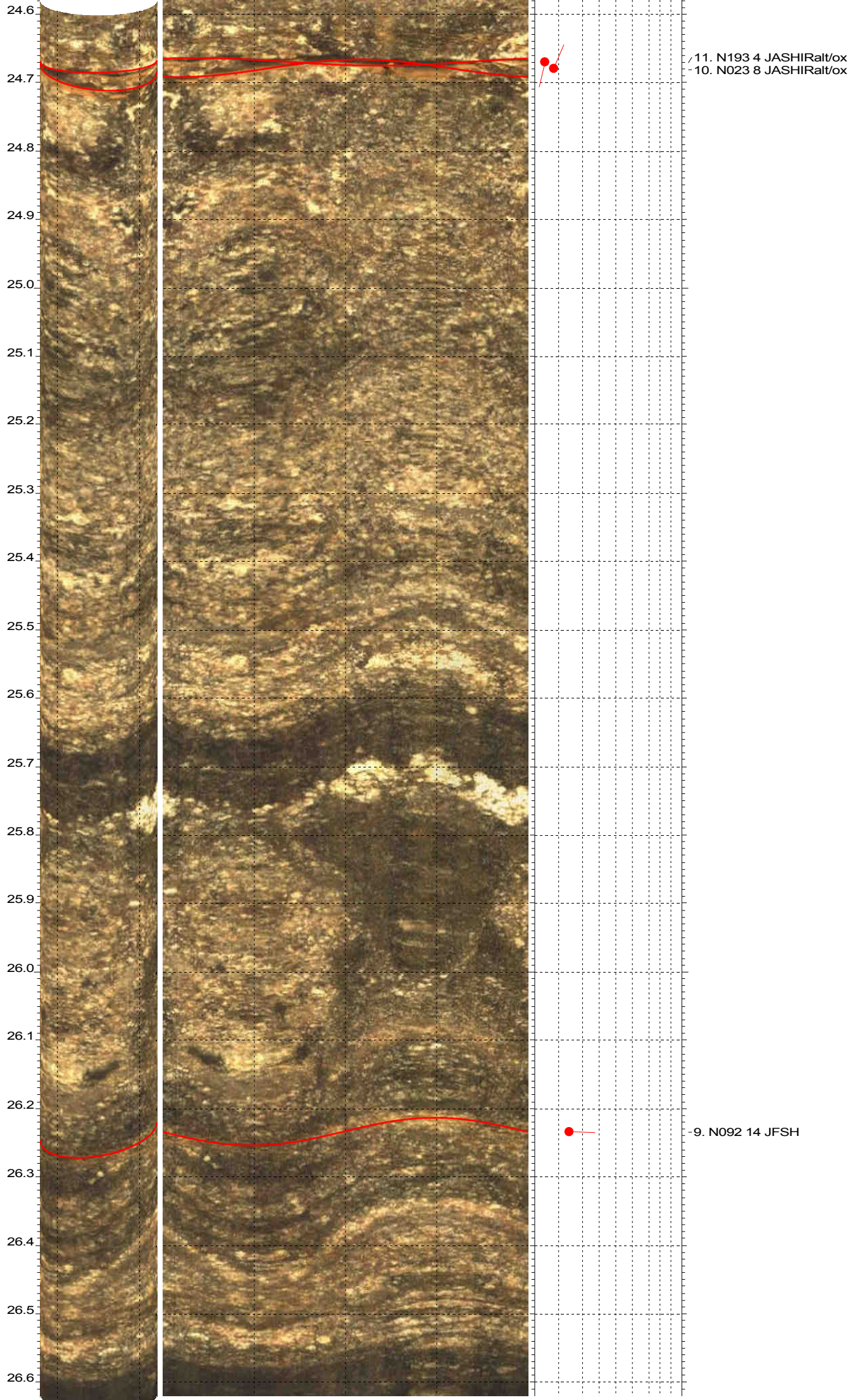
18.5  
18.6  
18.7  
18.8  
18.9  
19.0  
19.1  
19.2  
19.3  
19.4  
19.5  
19.6  
19.7  
19.8  
19.9  
20.0  
20.1  
20.2  
20.3  
20.4



19. N359 42 JASHIRalt (1cm)





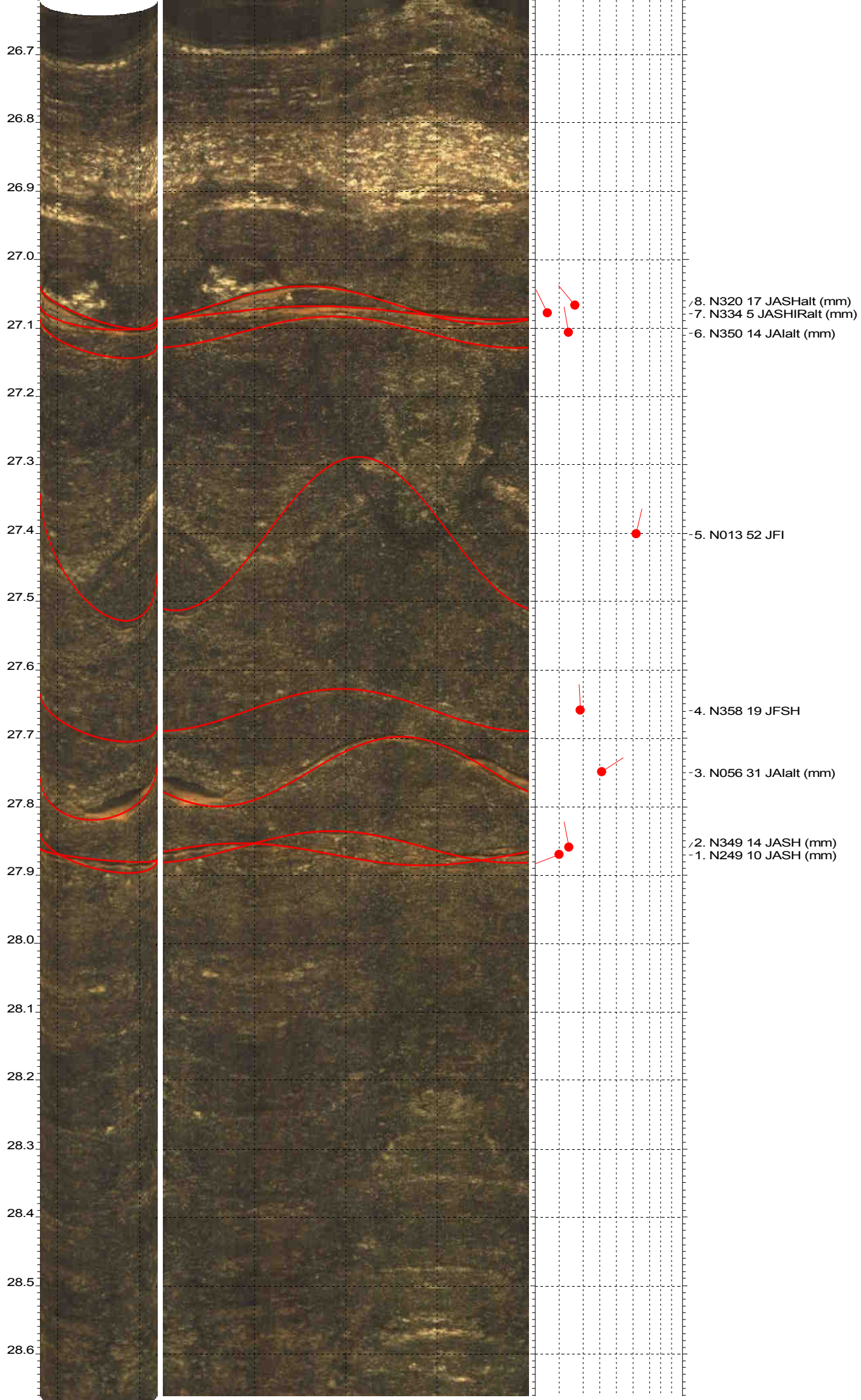


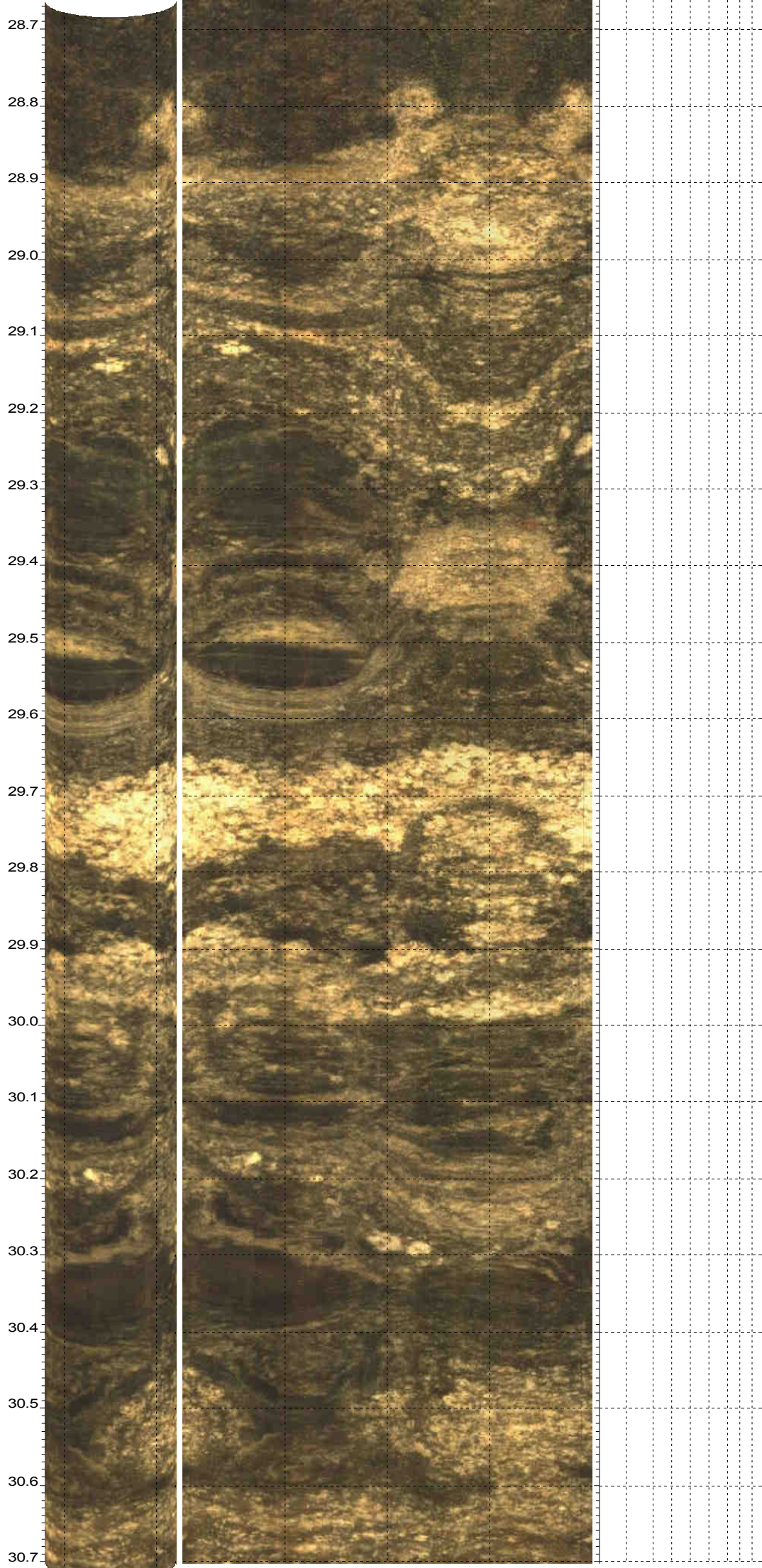
11. N193 4 JASHIRalt/ox

10. N023 8 JASHIRalt/ox

9. N092 14 JFSH





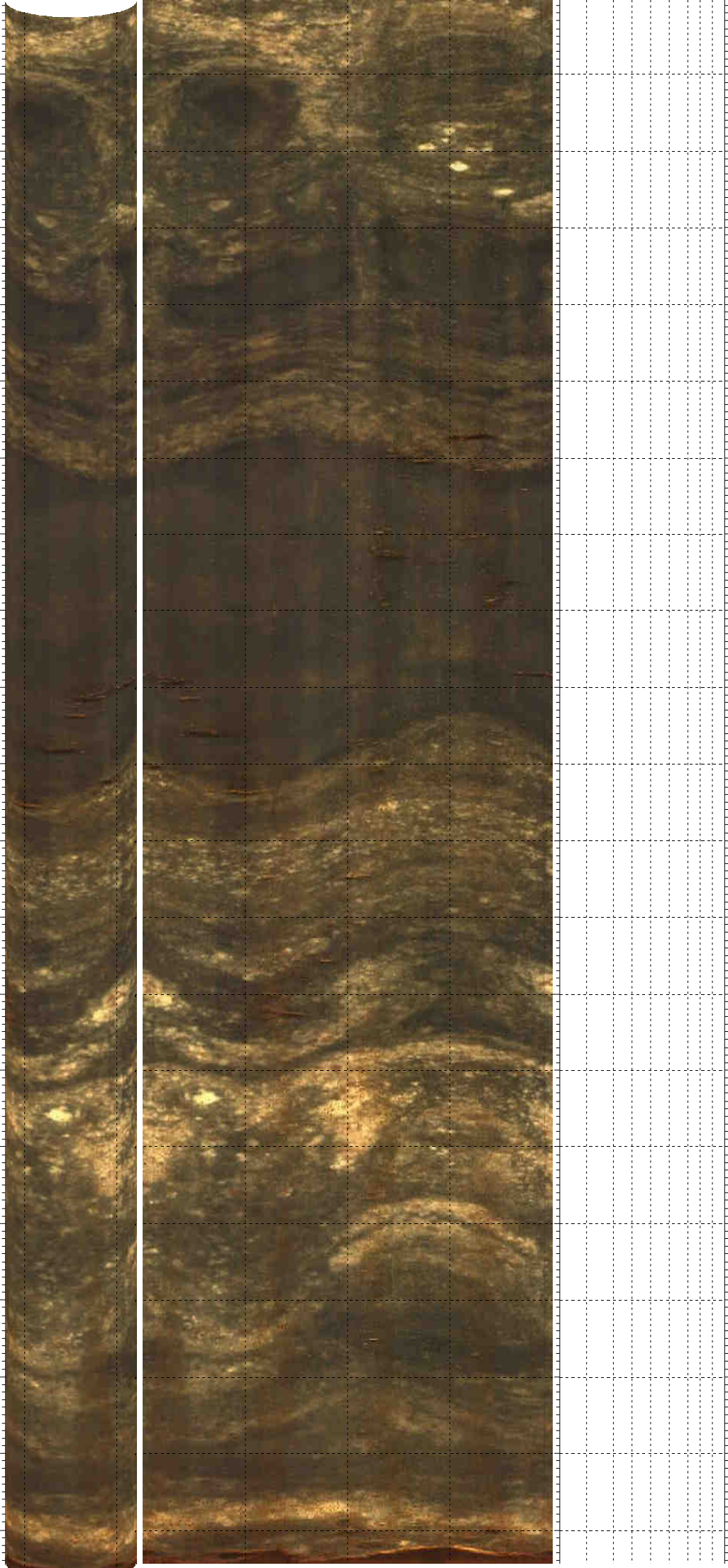


SM-111

30.702 to 28.661m

15 Oct 2015

30.8  
30.9  
31.0  
31.1  
31.2  
31.3  
31.4  
31.5  
31.6  
31.7  
31.8  
31.9  
32.0  
32.1  
32.2  
32.3  
32.4  
32.5  
32.6  
32.7

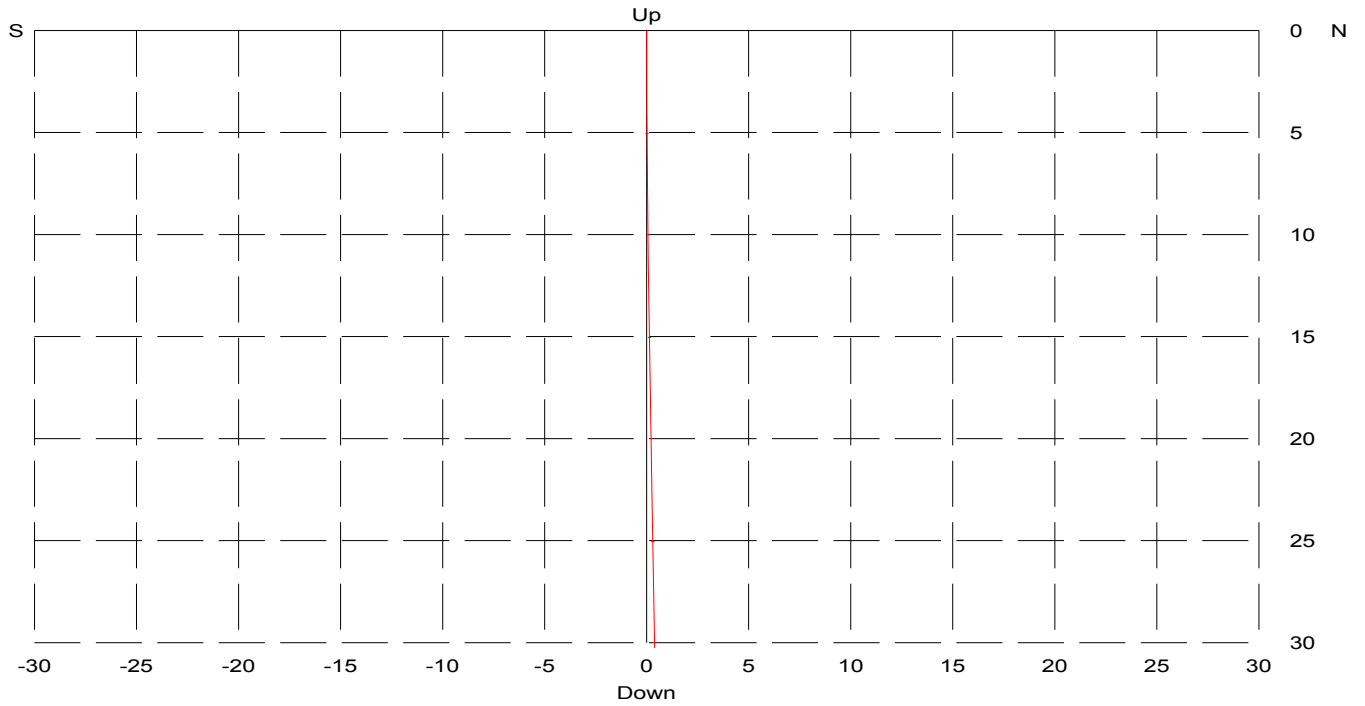


**DESVIO SONDAGEM**

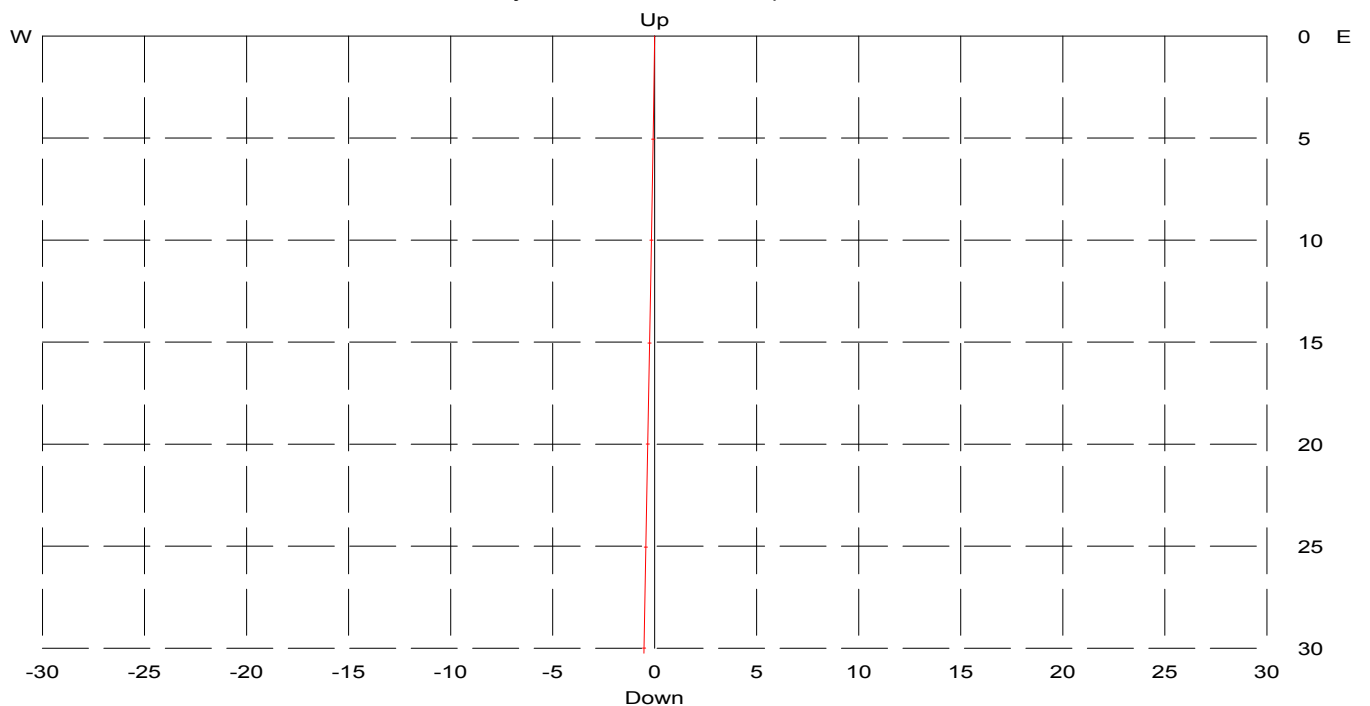


Borehole: SM-111 Sonde: OPTV  
Zone from: 2.454 to 32.800m  
North ref is magnetic  
Mean deviation: 1.24 to N306.95  
End coordinates .....  
North: 0.396  
East : -0.528  
Down : 30.338  
Azimuth of end: N306.88  
Distance start-end: 0.660m  
Distance marks every 5m  
15 Oct 2015

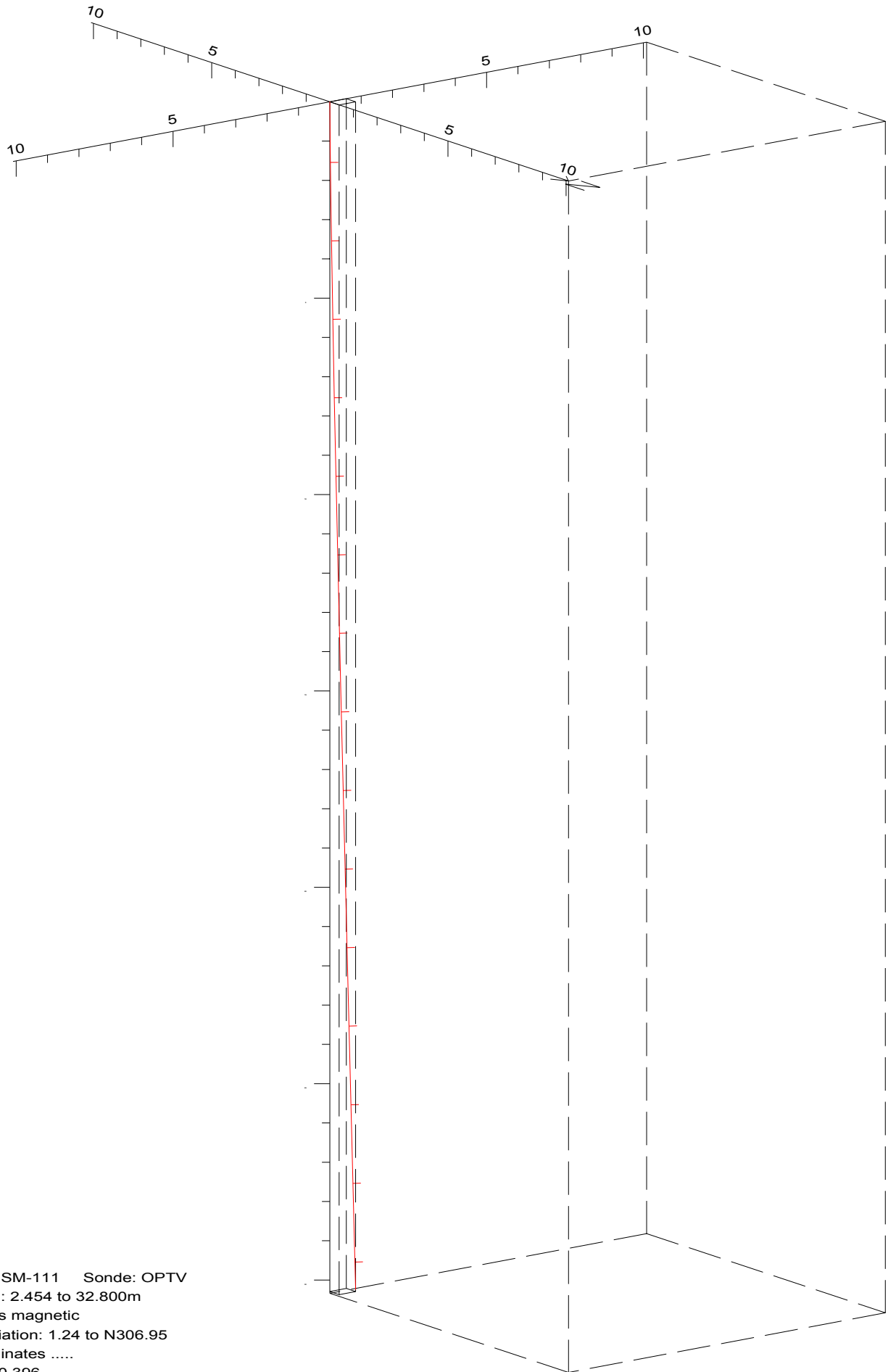
Projection onto vertical N-S plane



Projection onto vertical E-W plane



Deviated borehole in orthographic projection, viewed from N37



Borehole: SM-111    Sonde: OPTV  
Zone from: 2.454 to 32.800m  
North ref is magnetic  
Mean deviation: 1.24 to N306.95  
End coordinates .....

North: 0.396  
East : -0.528  
Down : 30.338  
Azimuth of end: N306.88  
Distance start-end: 0.660m  
Viewpoint: N37

15 Oct 2015