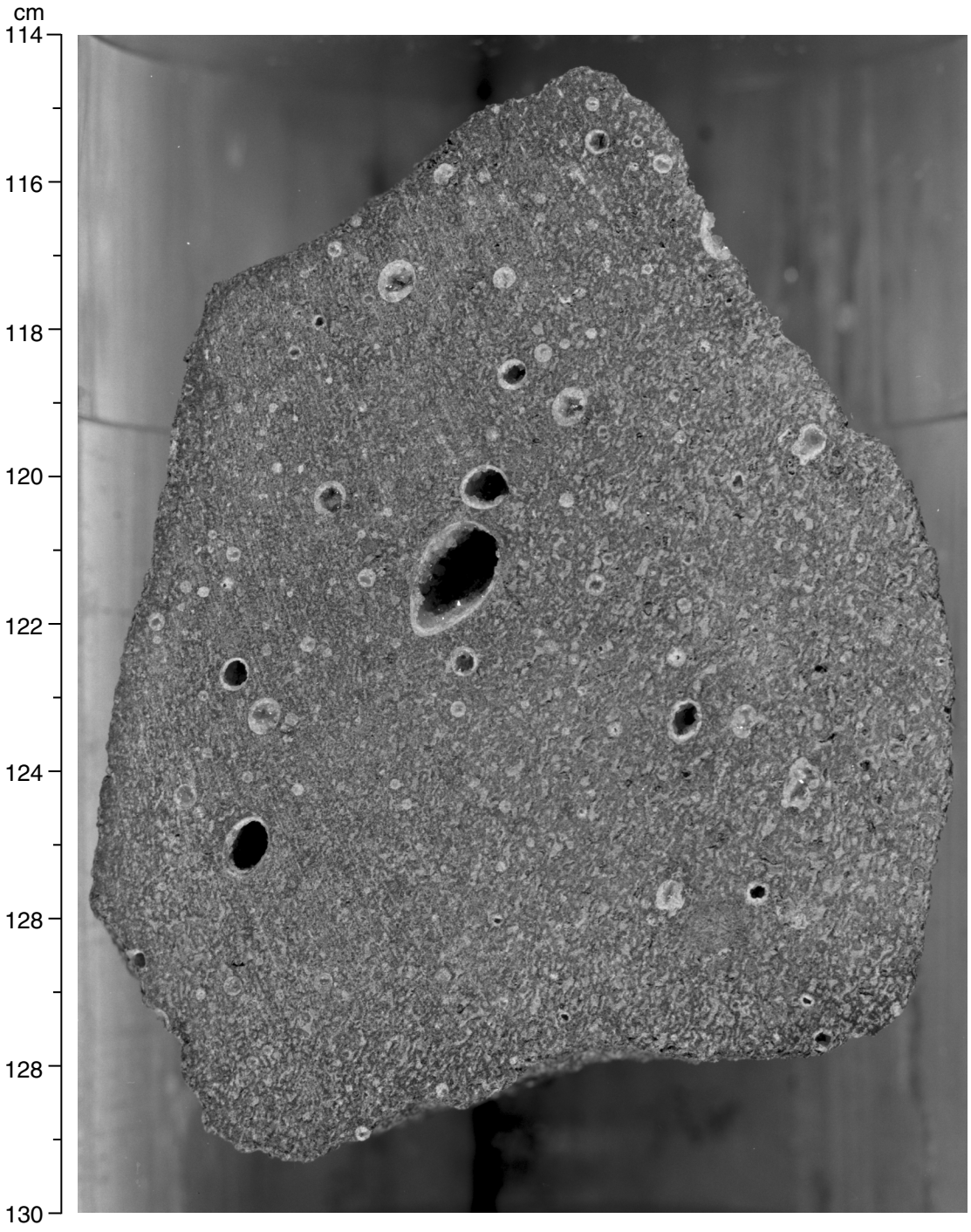

Figure 28

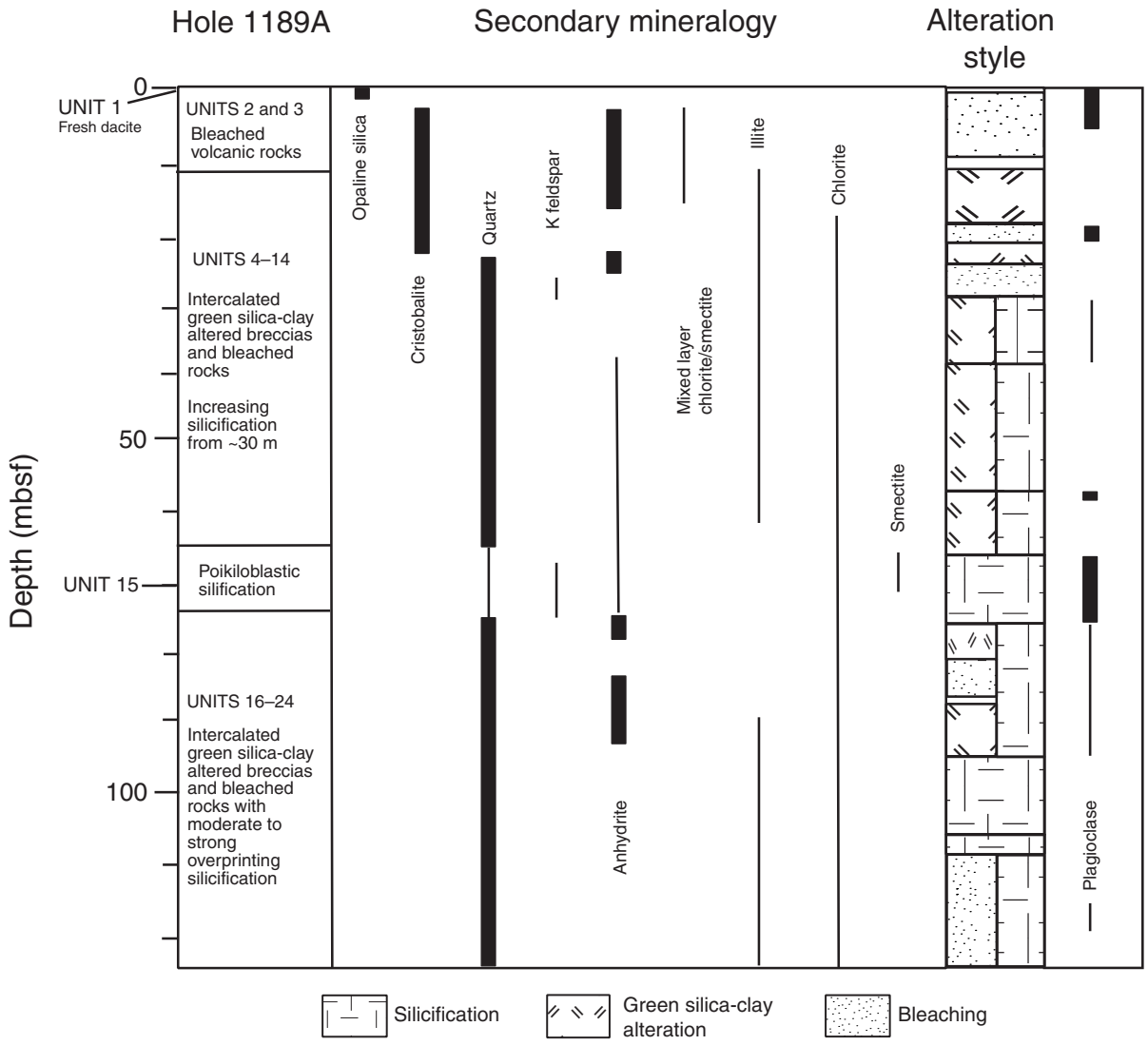
Hole 1189A
Secondary mineralogy
Alteration style
Depth (mbsf)
0
50
100
UNIT 1
Fresh dacite
UNITS 2 and 3
Bleached volcanic rocks
UNITS 4–14
Intercalated green silica-clay altered breccias and bleached rocks
Increasing silicification from ~30 m
UNIT 15
Poikiloblastic silification
UNITS 16–24
Intercalated green silica-clay altered breccias and bleached rocks with moderate to strong overprinting silicification
Opaline silica
Cristobalite
Quartz
K feldspar
Anhydrite
Mixed layer chlorite/smectite
Illite
Chlorite
Smectite
Plagioclase
Silicification
Green silica-clay alteration
Bleaching

Figure 29A

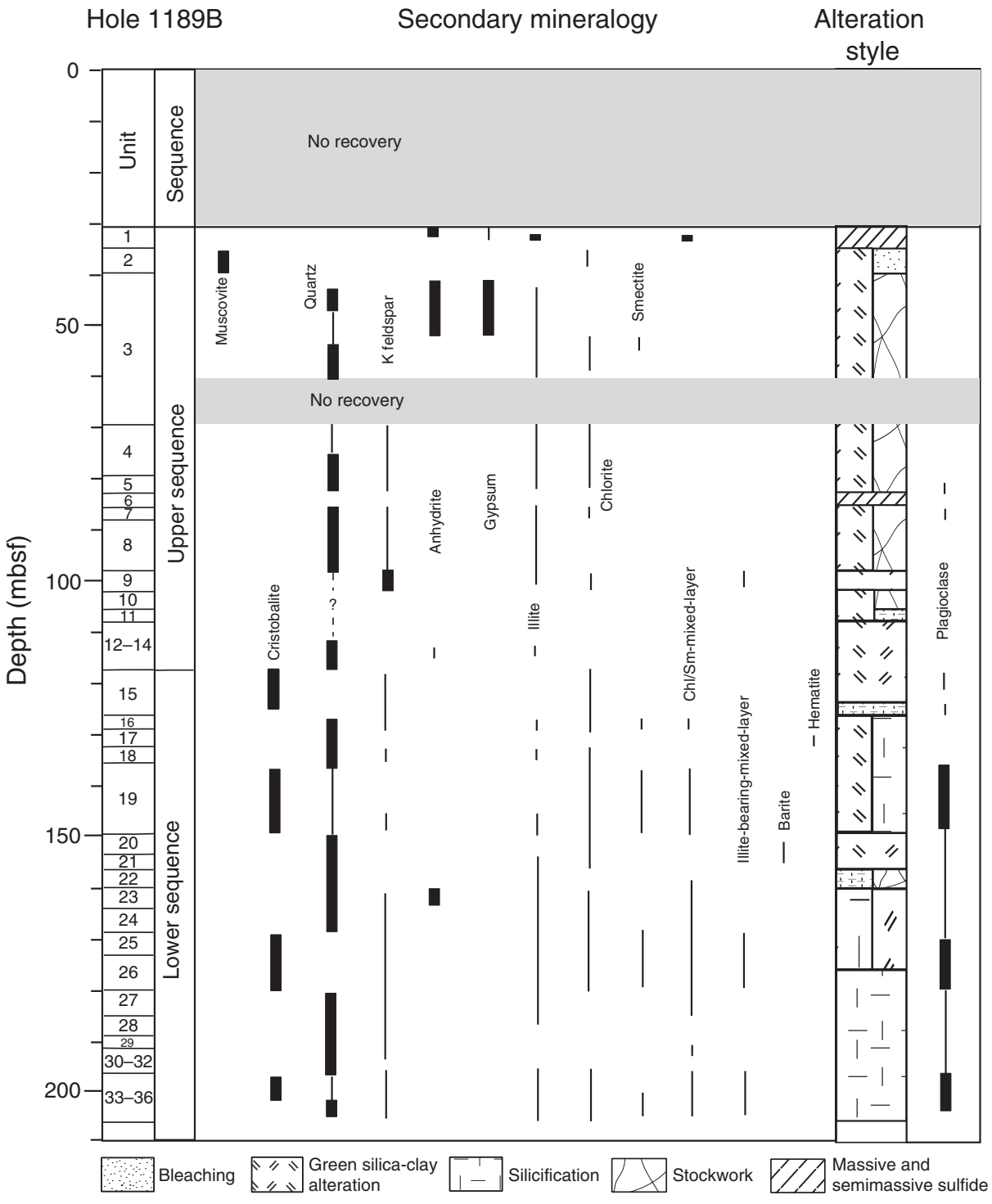
Hole 1189B
Secondary mineralogy
Alteration style
Depth (mbsf)
0
50
100
150
200
Unit
Sequence
Upper sequence
Lower sequence
1
2
3
4
5
6
7
8
9
10
11
12–14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30–32
33–36
No recovery
No recovery
Muscovite
Quartz
K feldspar
Anhydrite
Gypsum
Illite
Chlorite
Smectite
Chl/Sm-mixed-layer
Illite-bearing-mixed-layer
Barite
Hematite
Cristobalite
?
Plagioclase
Bleaching
Green silica-clay alteration
Silicification
Stockwork
Massive and semimassive sulfide

Figure 29B

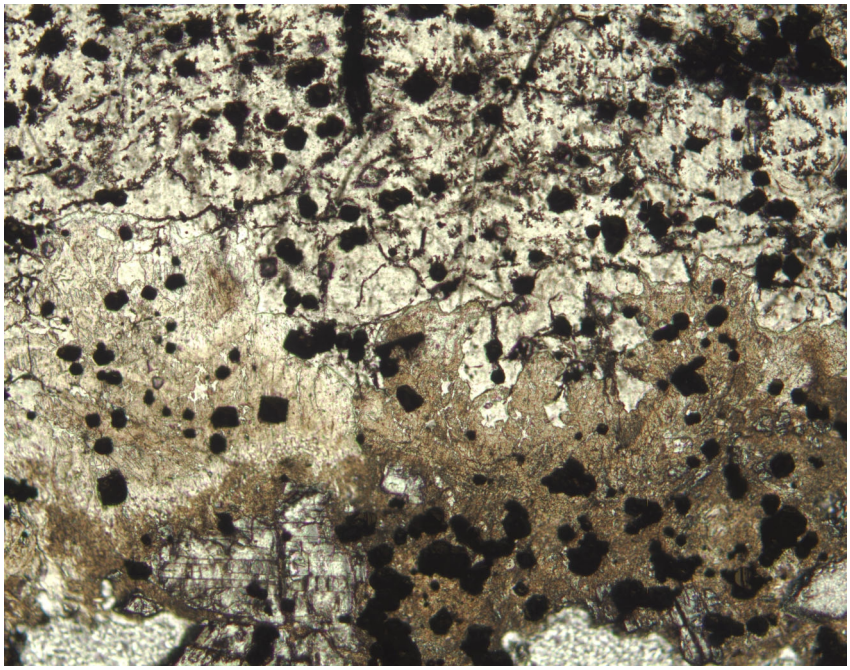

Figure 30

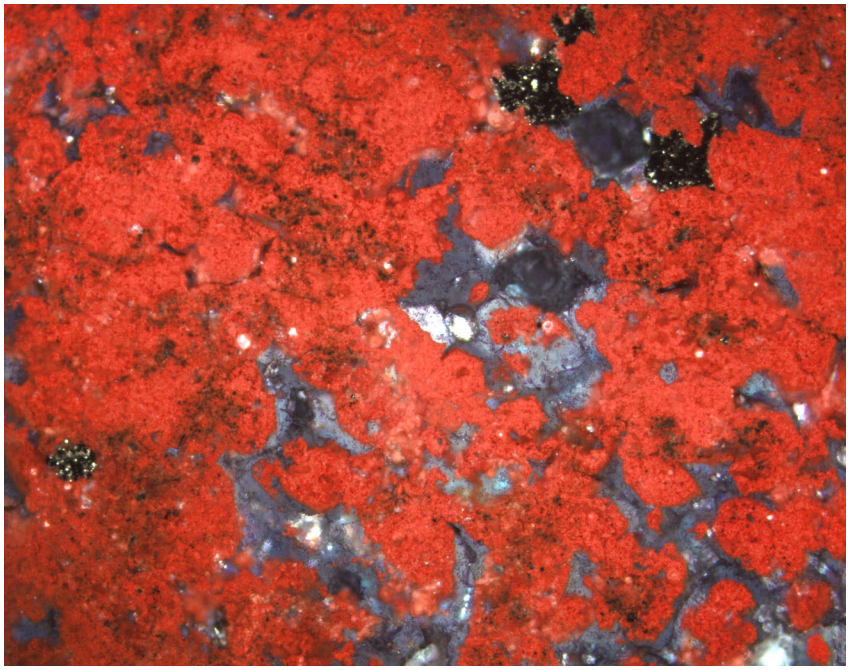

Figure 31

Figure 32