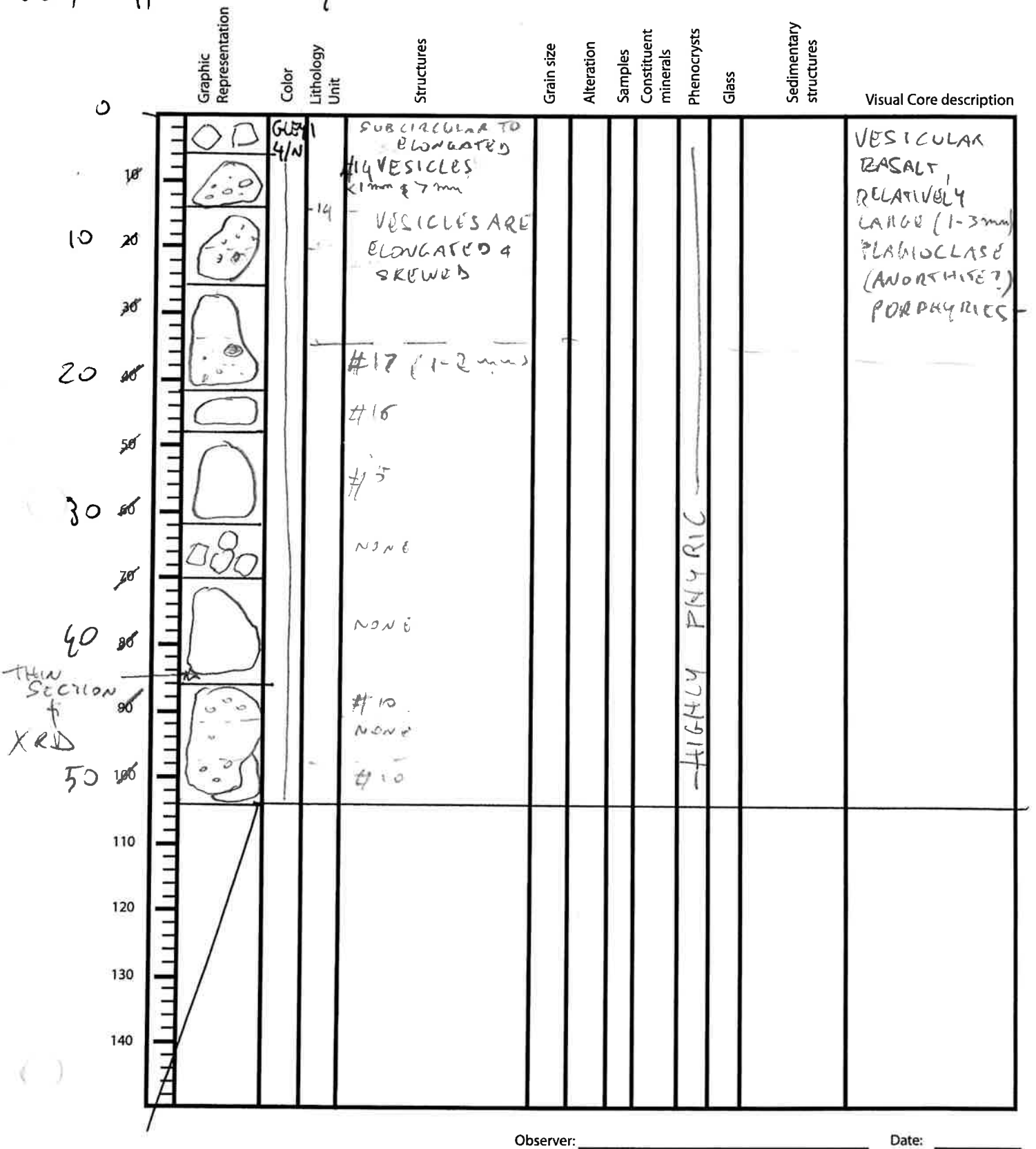
(dry color) VESICLES/inch^2

Expedition 323
Bering Sea
(Hard rock VCD)

GLEY 1 4/N = DARK GRAY

1342 A 9X 1W
Site Hole Core Section Top Depth

Major Lithology

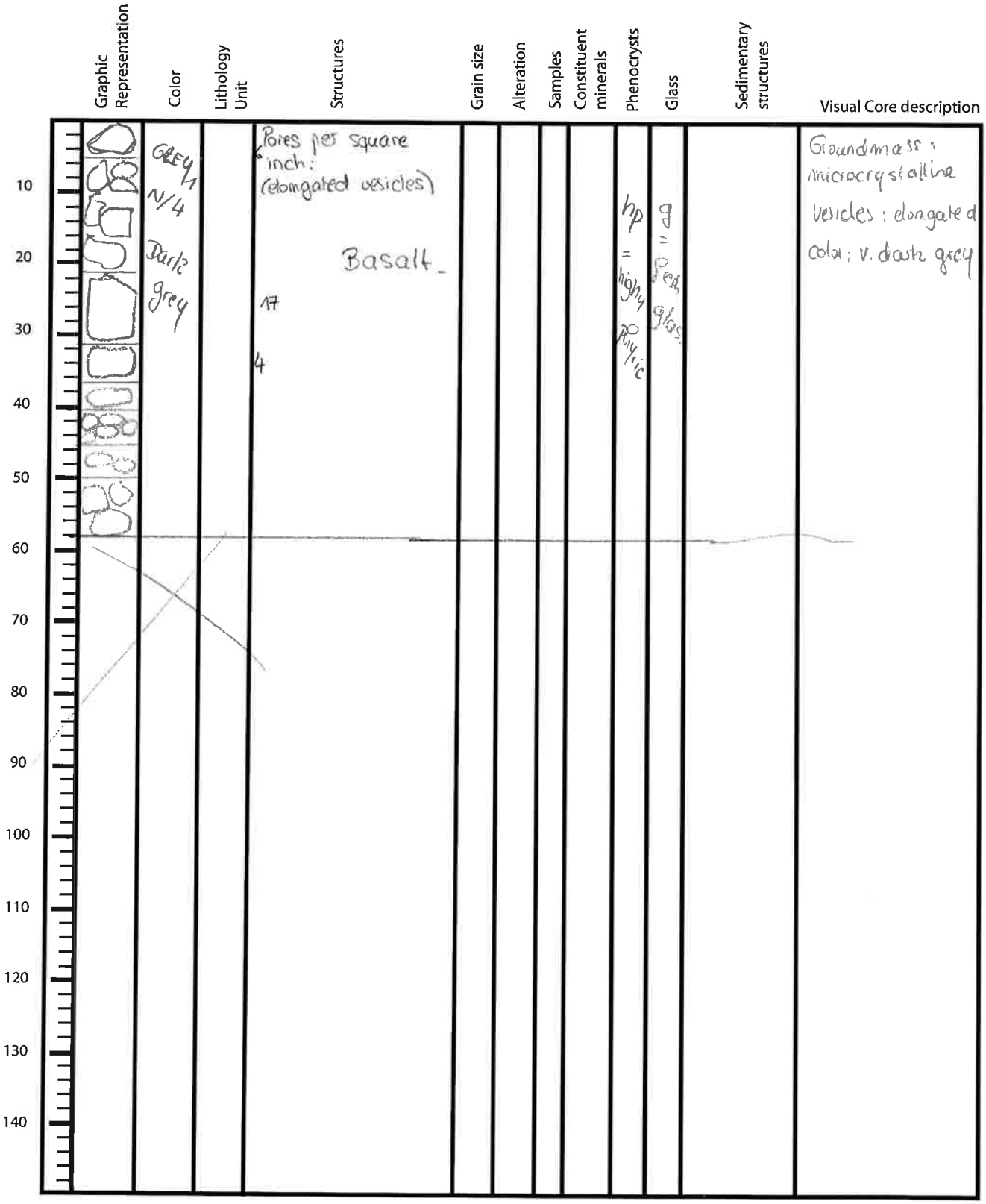


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

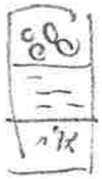
1342 (Site) | D (Hole) | 7X (Core) | 1 (Section) | _____ (Top Depth)

Major Lithology: _____



Observer: G.B. Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

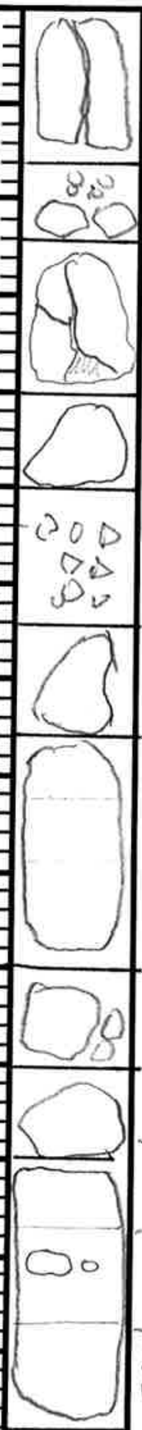


1342	D	8X	1a	
Site	Hole	Core	Section	Top Depth

Major Lithology

SORTING

Visual Core description

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	GLEY 1 4/N		vesicles per inches 10 7 8					h p	g		Groundmass: microcrystalline vesicles elongated color: very dark grey (Basalt)
	RANGES BETWEEN GLEY 2 6/10B 4 2.5/10B		Texture: * Silt size w/ few sand size clasts. Moderately sorted poorly matrix Silt medium - sand - poorly sorted see * Silt - to - pebble size very poorly sorted *								(Sedimentary Rock) Volcaniclastic siltstone

Scale (cm): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140

Handwritten scale (left): 0 – 10 – 20 – 30 – 40 – 50 – 60 – 70 – 75

IGNEOUS ROCKS ↑ 27 cm
↓ SEDIMENTARY ROCKS

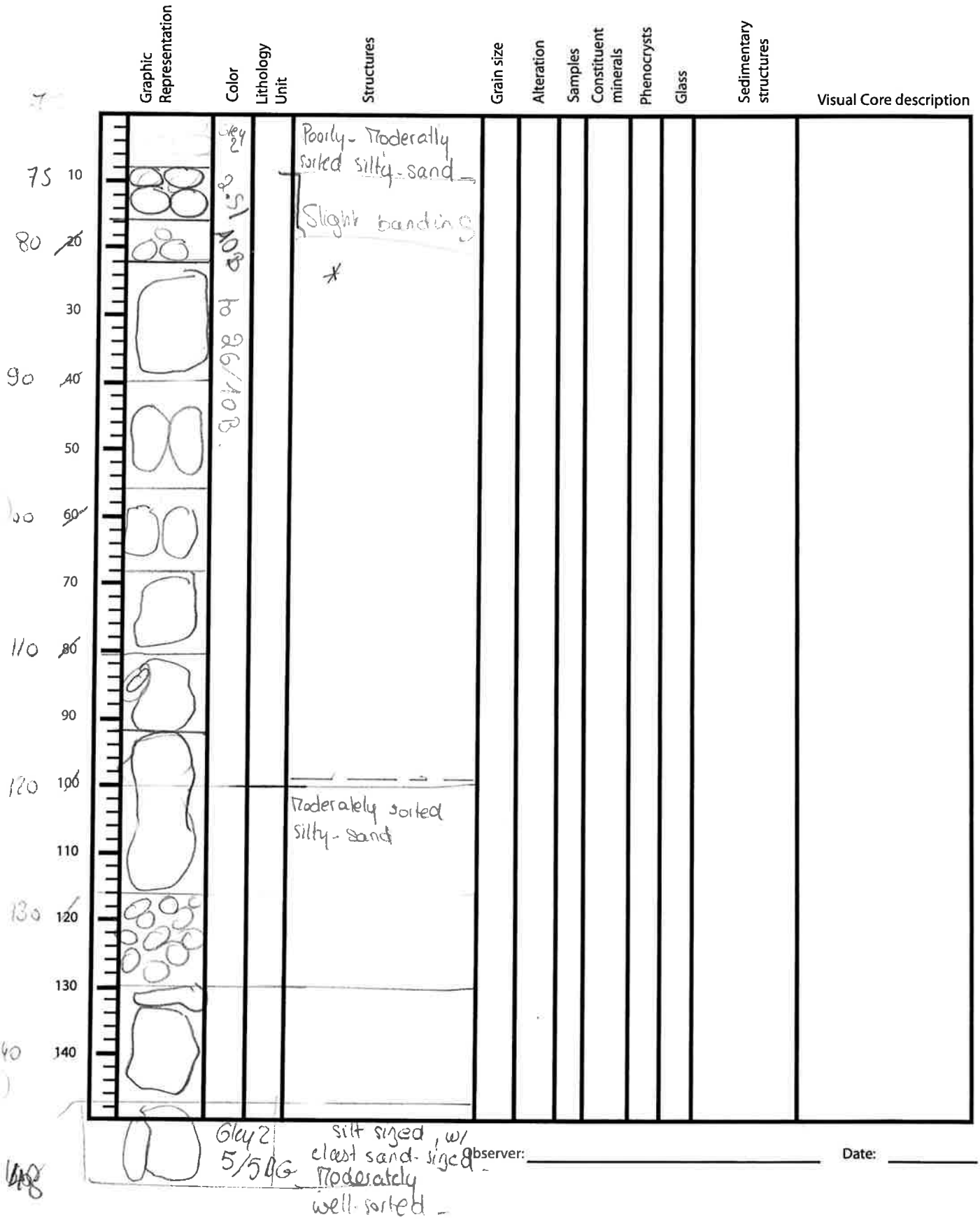
CONT

Observer: ______________ Date: ______________

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 8X Core | 1 b Section | Top Depth

Major Lithology

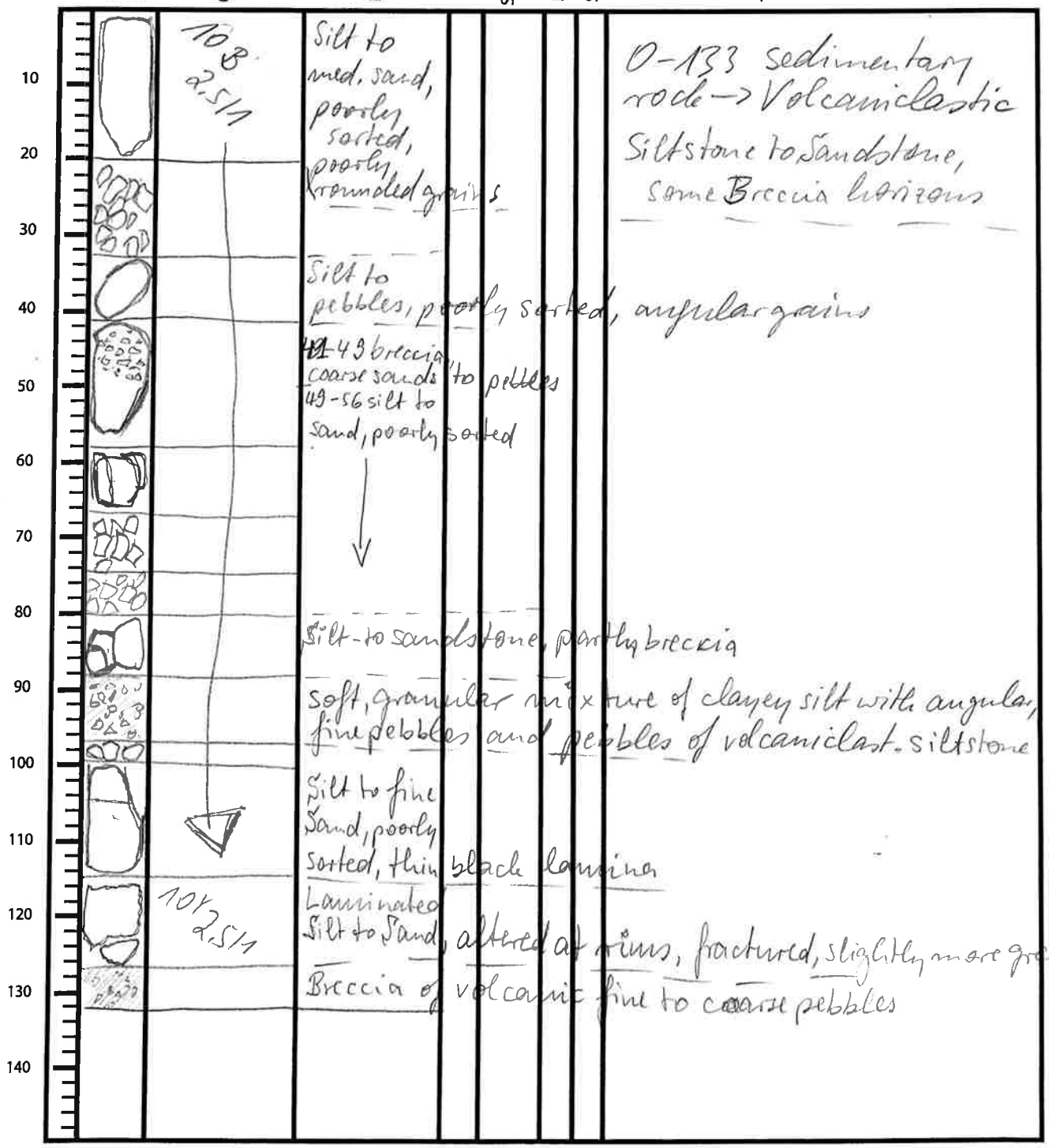


Observer: Date:

1342 (Site) | D (Hole) | 8X (Core) | 2 (Section) | ____ (Top Depth)

Expedition 323
Bering Sea
(Hard-rock VCD)

Major Lithology: ____ Minor Lithology: ____

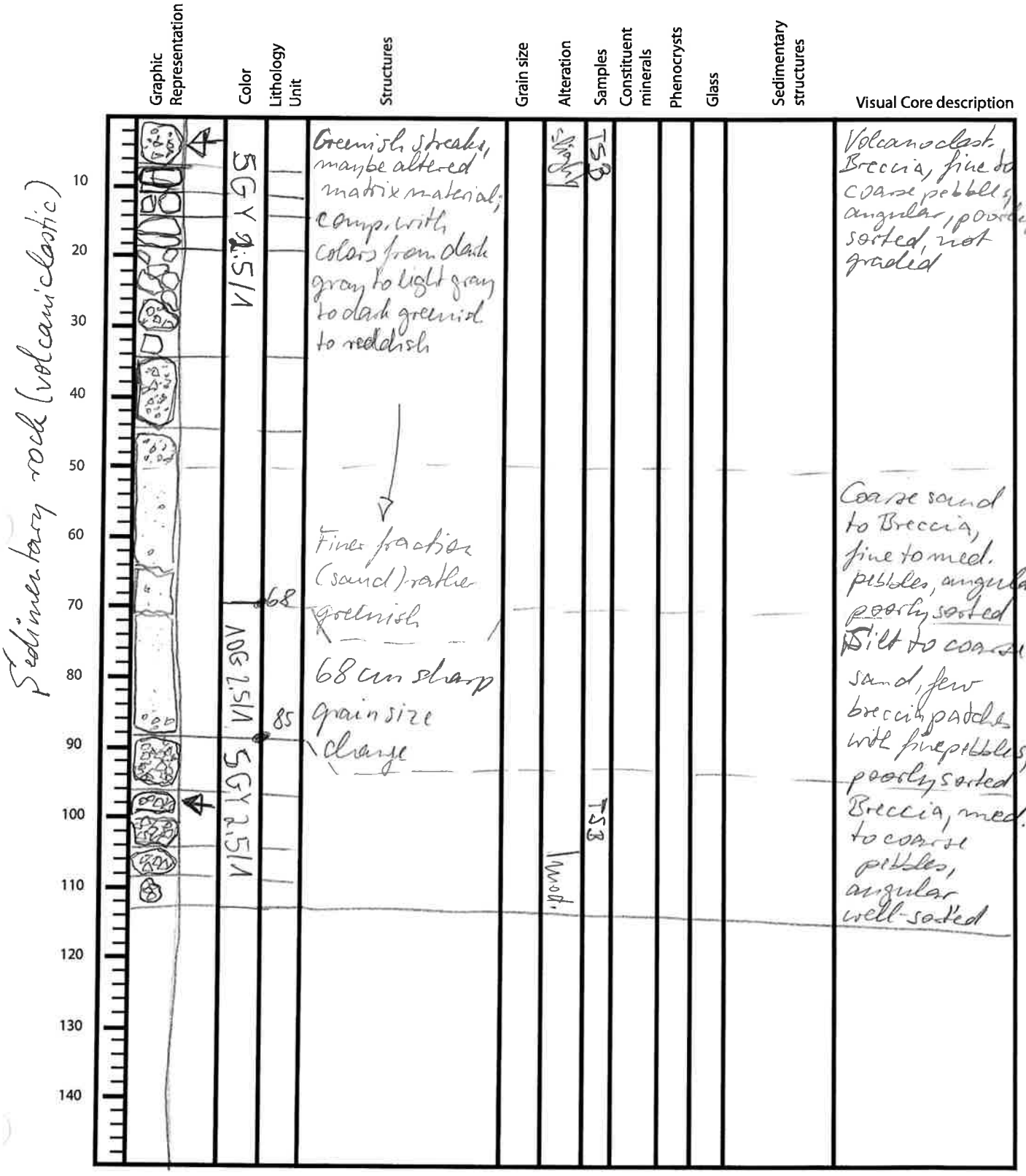


Observer: ____ Date: ____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 9X Core | 1 Section | _____ Top Depth

_____ Major Lithology

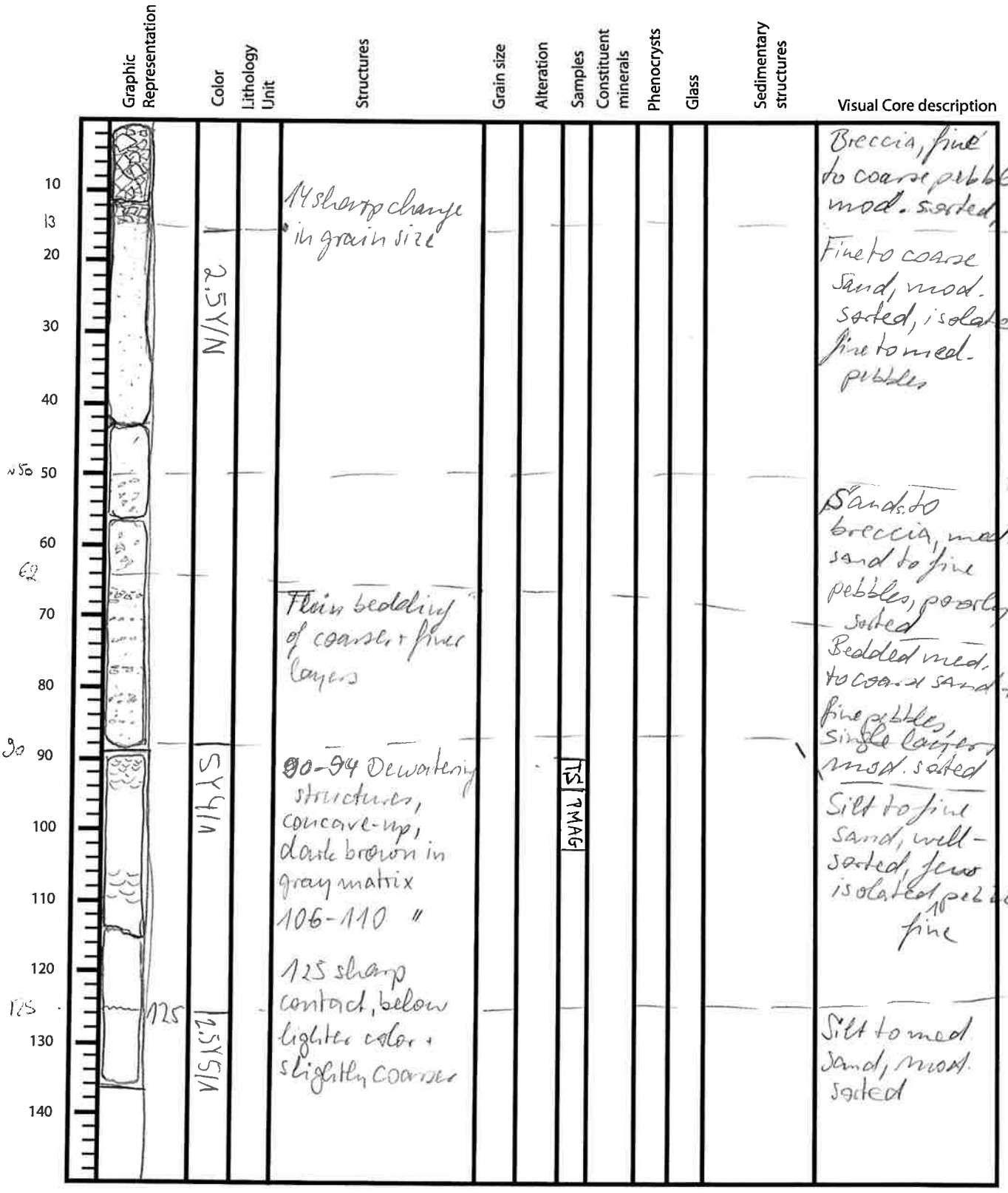


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 9X (Core) 2 (Section) ____ (Top Depth)

Major Lithology

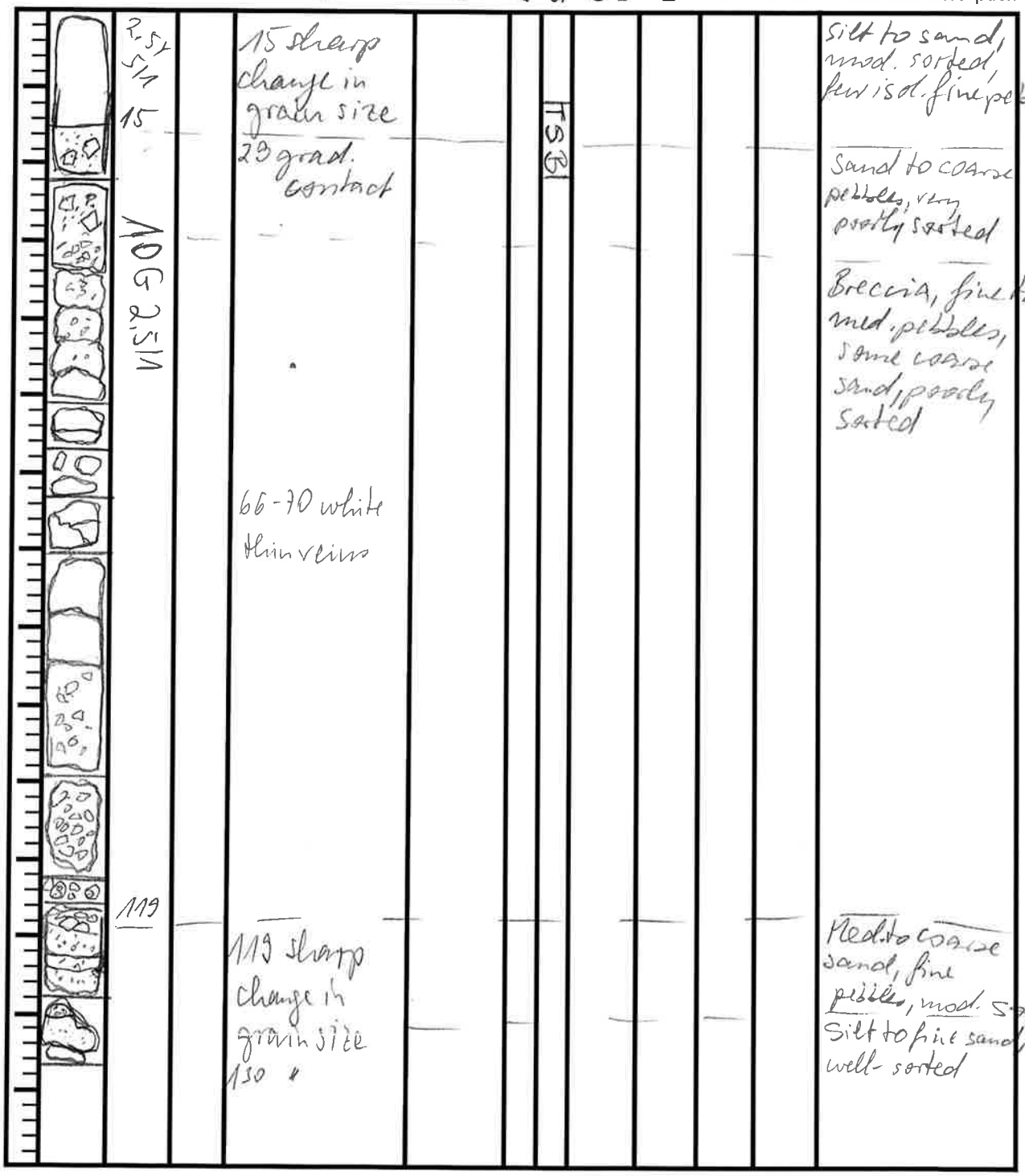


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 9X (Core) 3 (Section) ____ (Top Depth)

Major Lithology

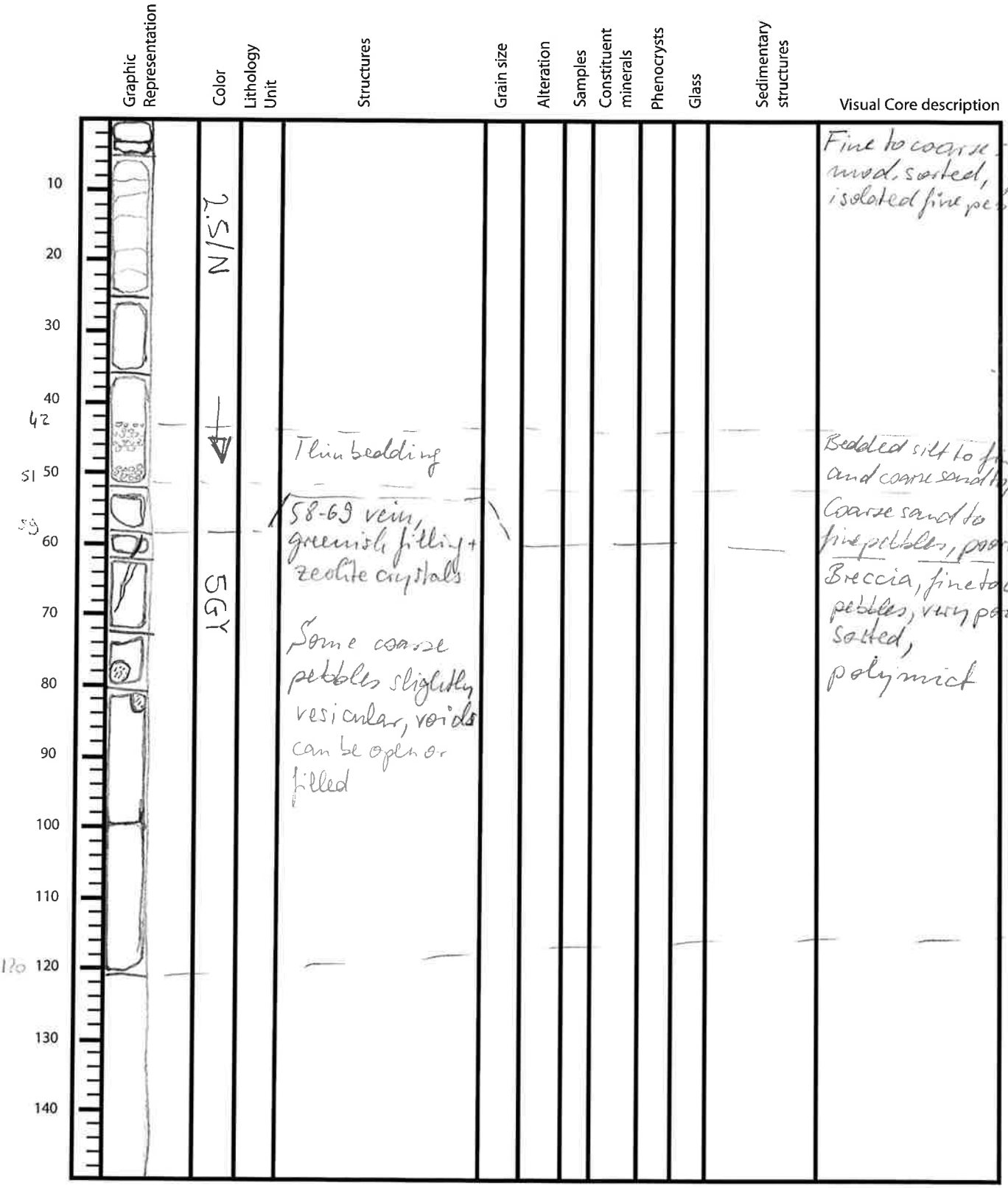


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 10X (Core) 1 (Section) ____ (Top Depth)

Major Lithology

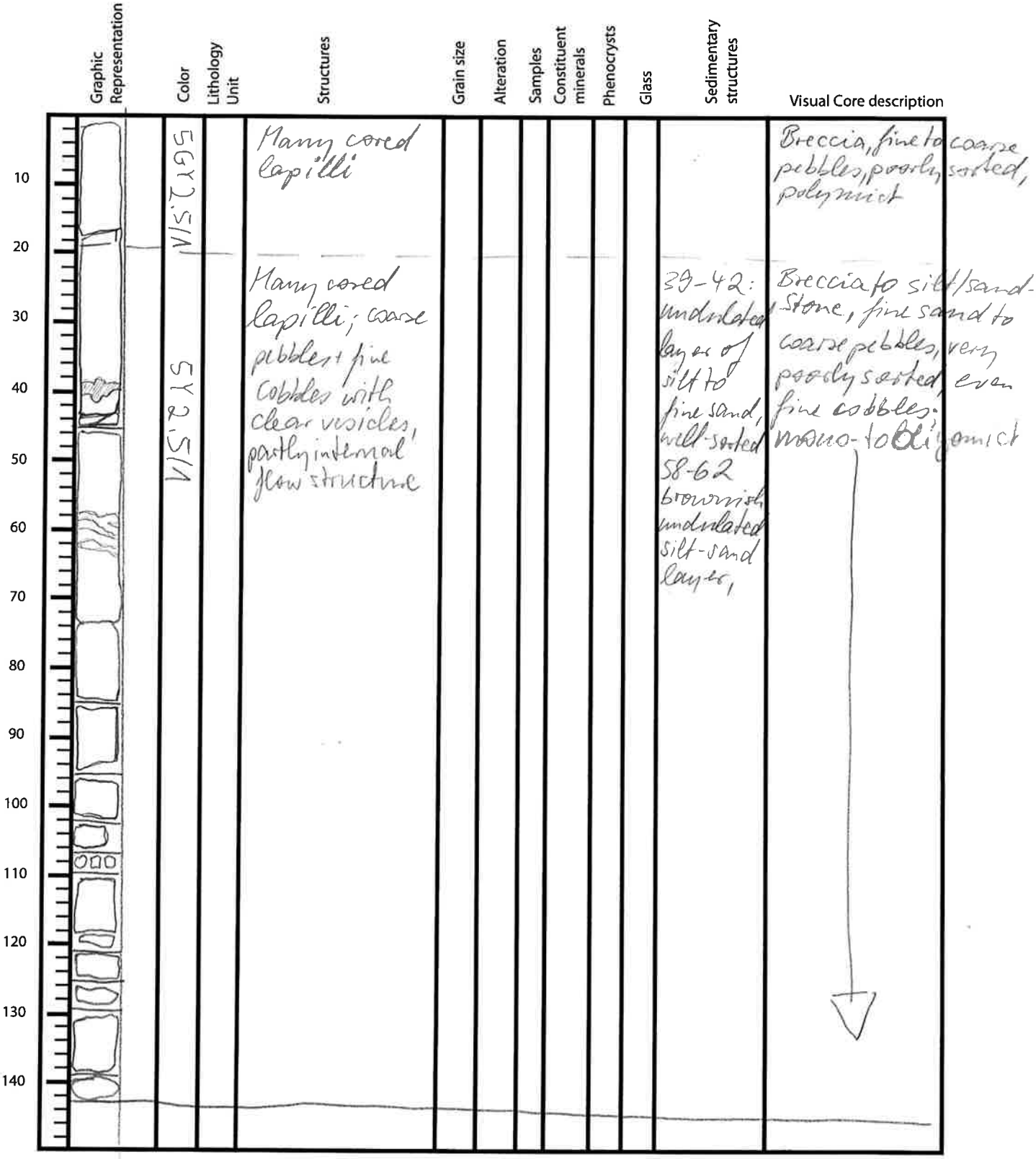


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 10X Core | 2 Section | _____ Top Depth

Major Lithology _____ _____

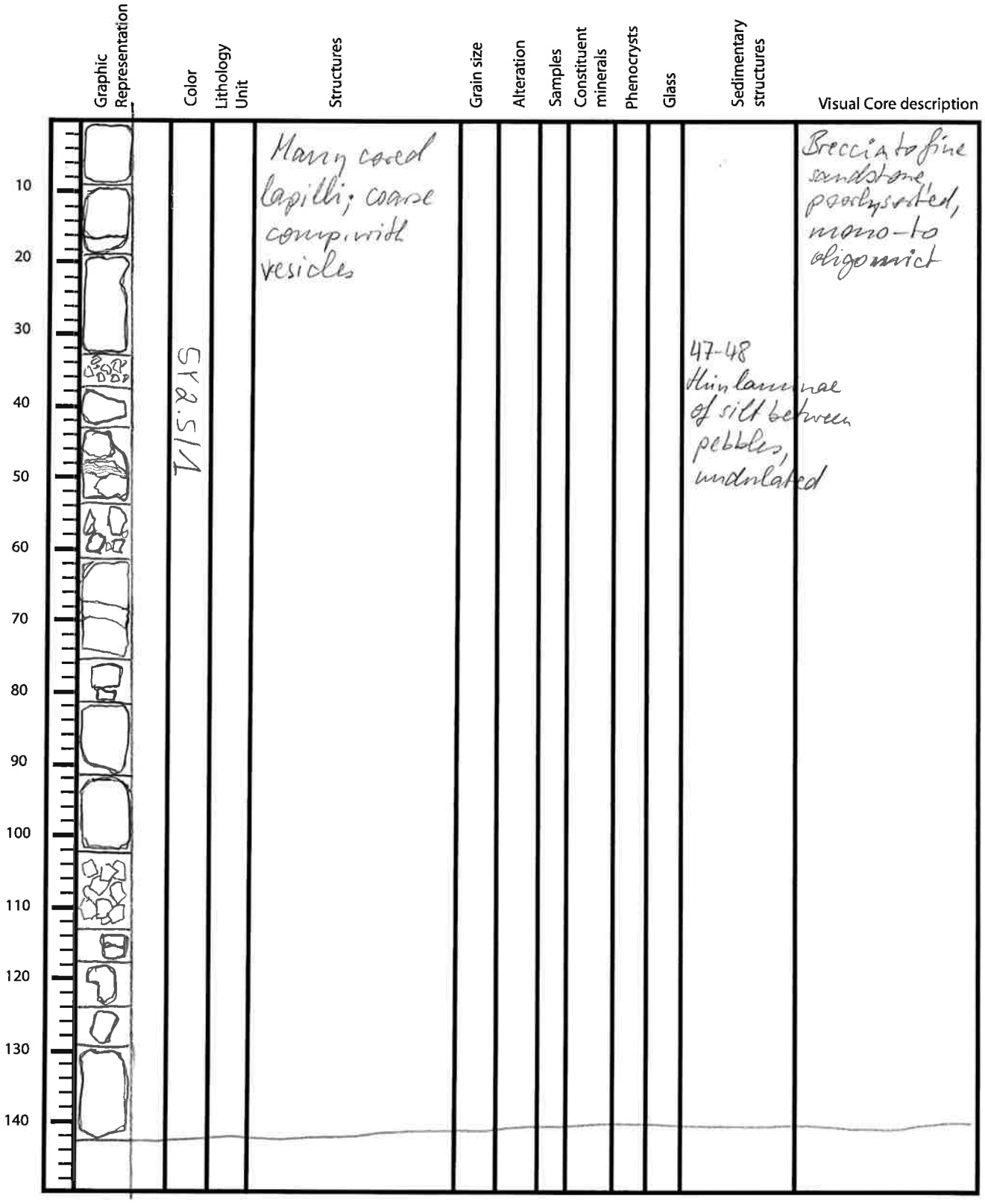


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 10X (Core) 3 (Section) ____ (Top Depth)

Major Lithology

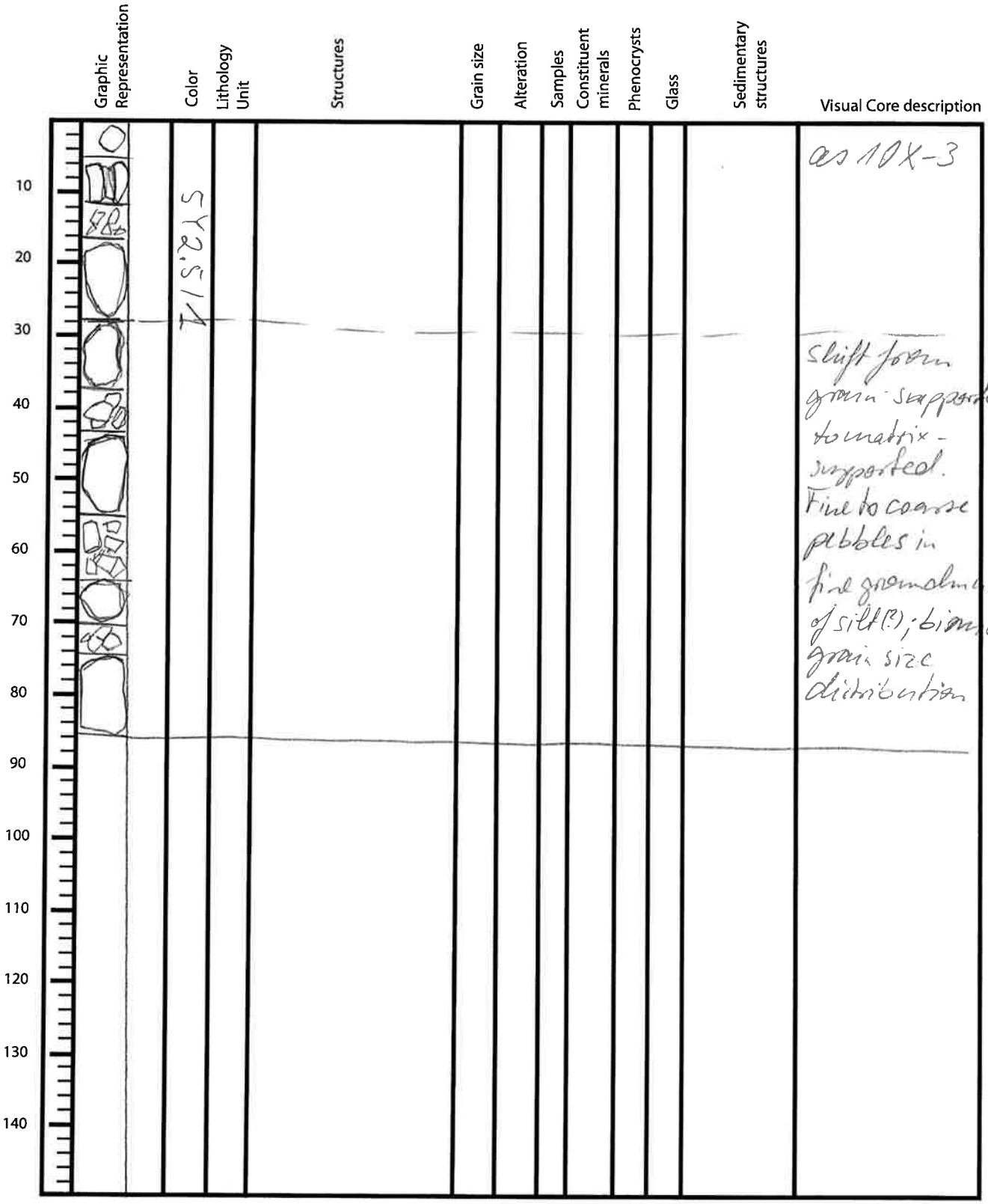


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 10X (Core) 4 (Section) ____ (Top Depth)

Major Lithology



Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 11X (Core) 1A (Section) ____ (Top Depth)

XLS = crystals

Major Lithology

Graphic Representation | Color | Lithology Unit | Structures | Grain size | Alteration | Samples | Constituent minerals | Phenocrysts | Glass | Sedimentary structures | Visual Core description

5
10
12
18
20
24.5
30
33
40
42.5
49.5
50
54
60
65
70
80
80.5
90
95
100
103
109
110
120.5
120
121.5
130
132.5
140
143

2.5% groundmass w/ 6% clasts

"vesiculated basalt" clasts
Poorly sorted
Most have halo surrounding it.
some vesicules have pale blue mineral coating
others filled w/ white XLS or pyrite

Clast-supported

Matrix = v. fine grain, no vesicles visible

vesicles are elongate in general

11 X 1 10A:
sub angular clasts
poorly sorted clasts
Basalt clasts w/halo
Bottom 2 cm is lg basalt (vesiculated) piece. vesicles filled w/ calcite
Some clasts = altered glass?
Sm. vesicles = spherical
lg. vesicles = ovoid. || to bedding

mm to 5cm

Relatively fresh

58
60
TSS

Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 11X Core | 2 Section | _____ Top Depth

Major Lithology _____ _____

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
8 10 14 19.5 20 26.5 30 33 40 42 50 55.5 60 63 70 78 80 90 99 100 106 110 114.5 120 123 130 133 136 140	2.5 Y 5/N	B	Pipe vesicles; Vesiculated Basalt; maybe 1 Clast from breccia or may be primary flow?		REL. FRESH	8-14 TS				Clast w/ vesicles & alteration	Piece 11X 2A 14A; description essentially the same as 11X 3A piece 1A

Breccia

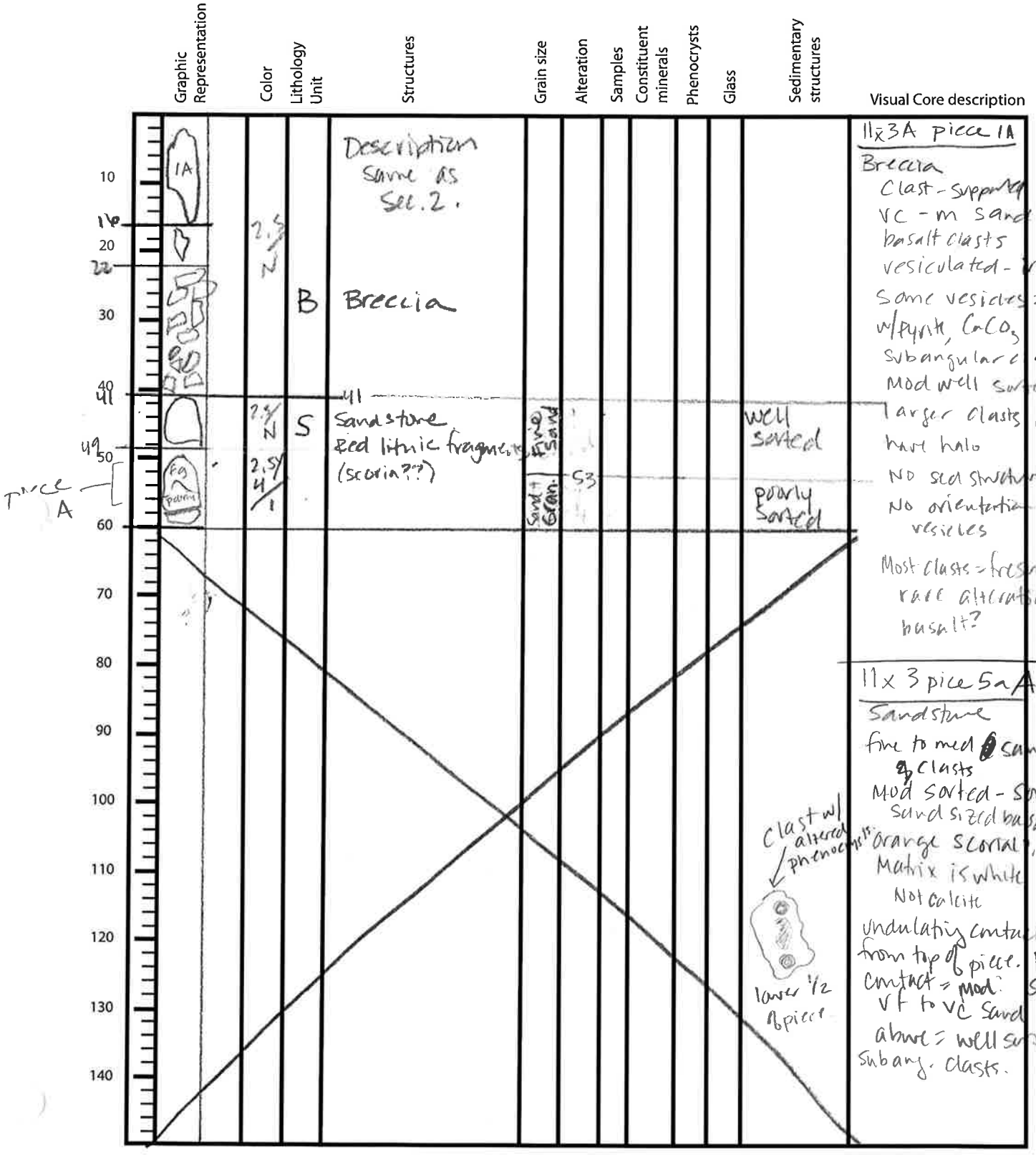
Desc. same as sec. 1

Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 11X (Core) 3 (Section) ____ (Top Depth)

Major Lithology ____ ____

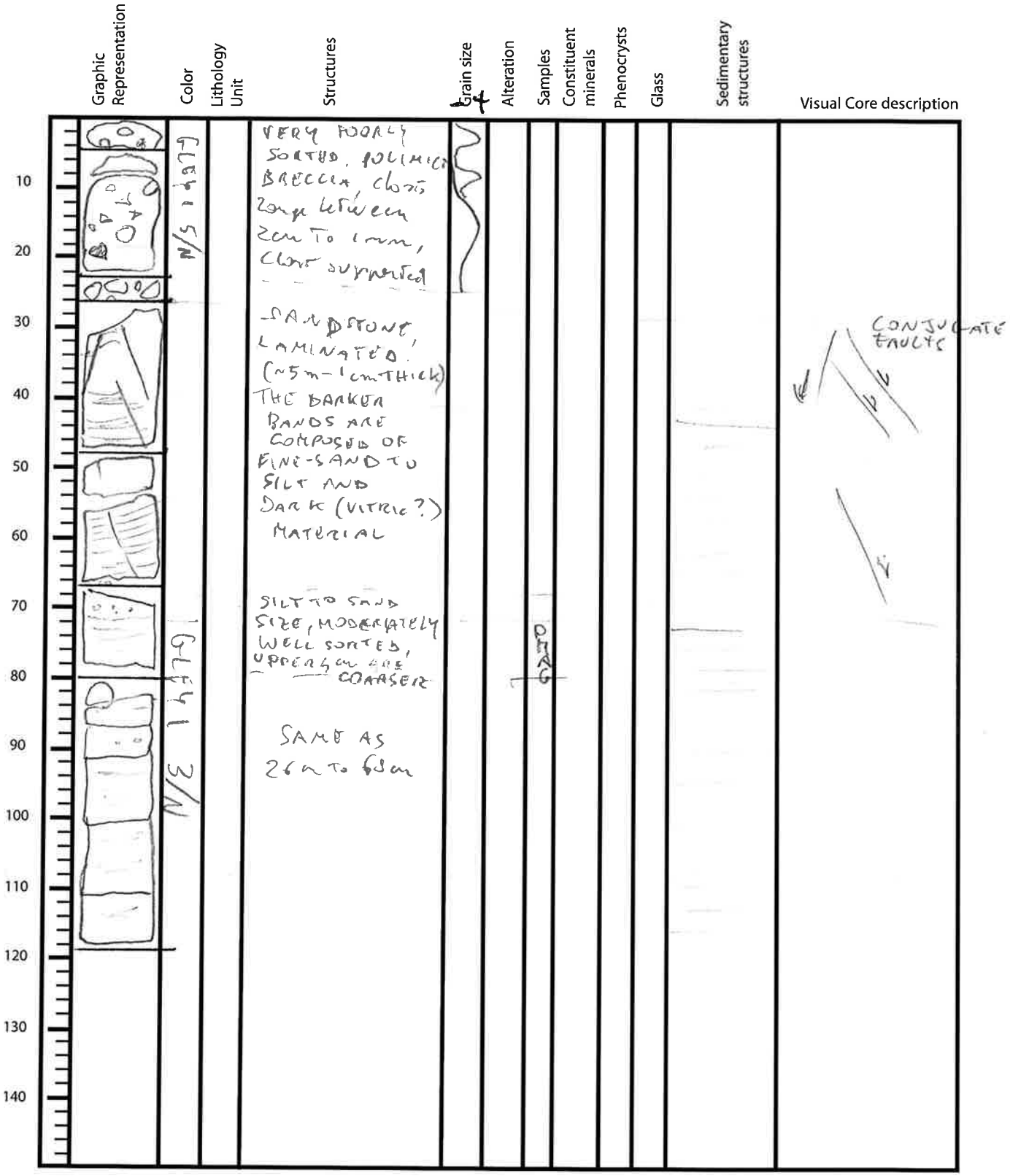


Observer: ____ Date: ____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 B 12X 1
Site Hole Core Section Top Depth

Major Lithology



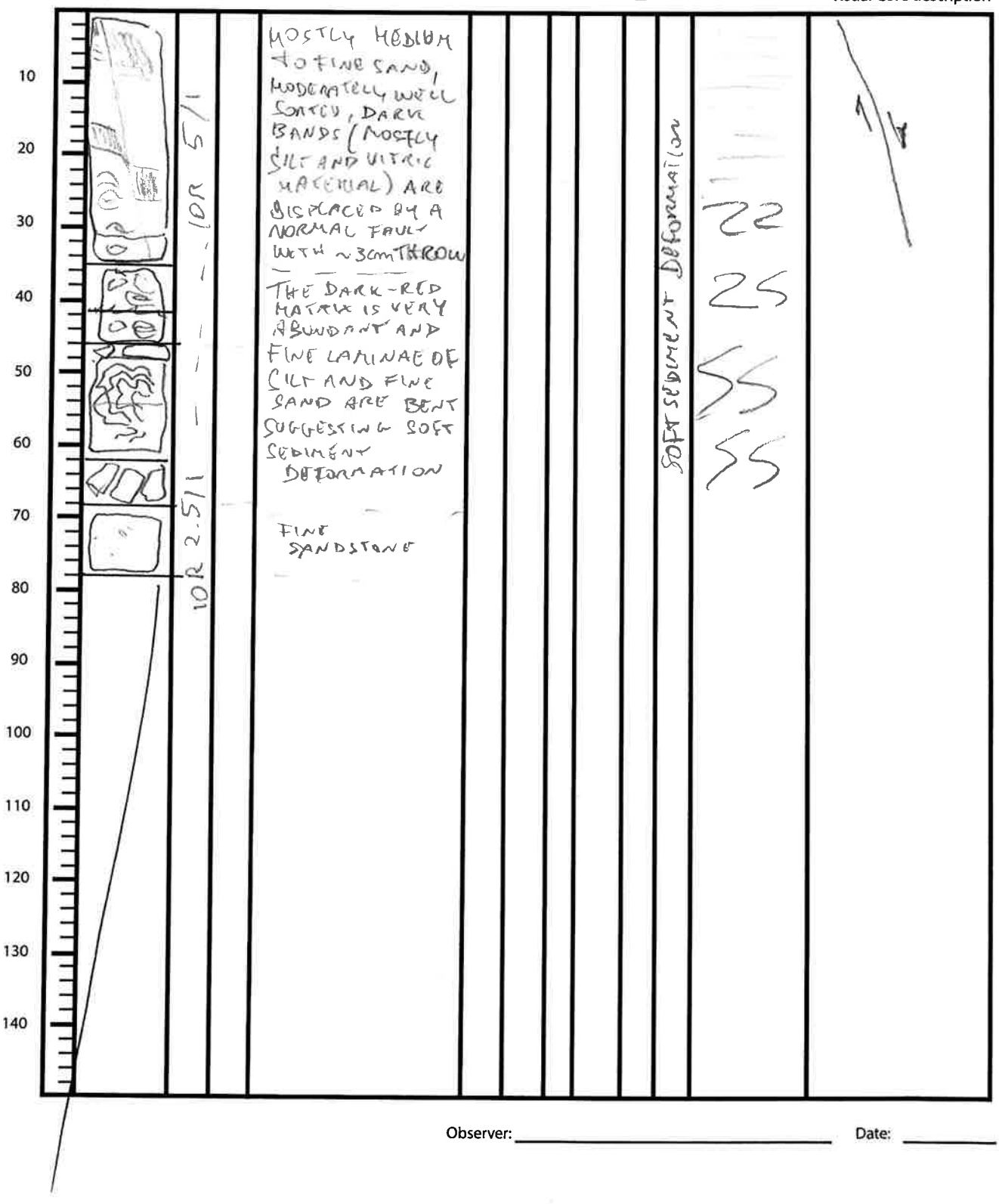
Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

Site	Hole	Core	Section	Top Depth
1352	B	12	2	

Major Lithology

SS - SLUMPING

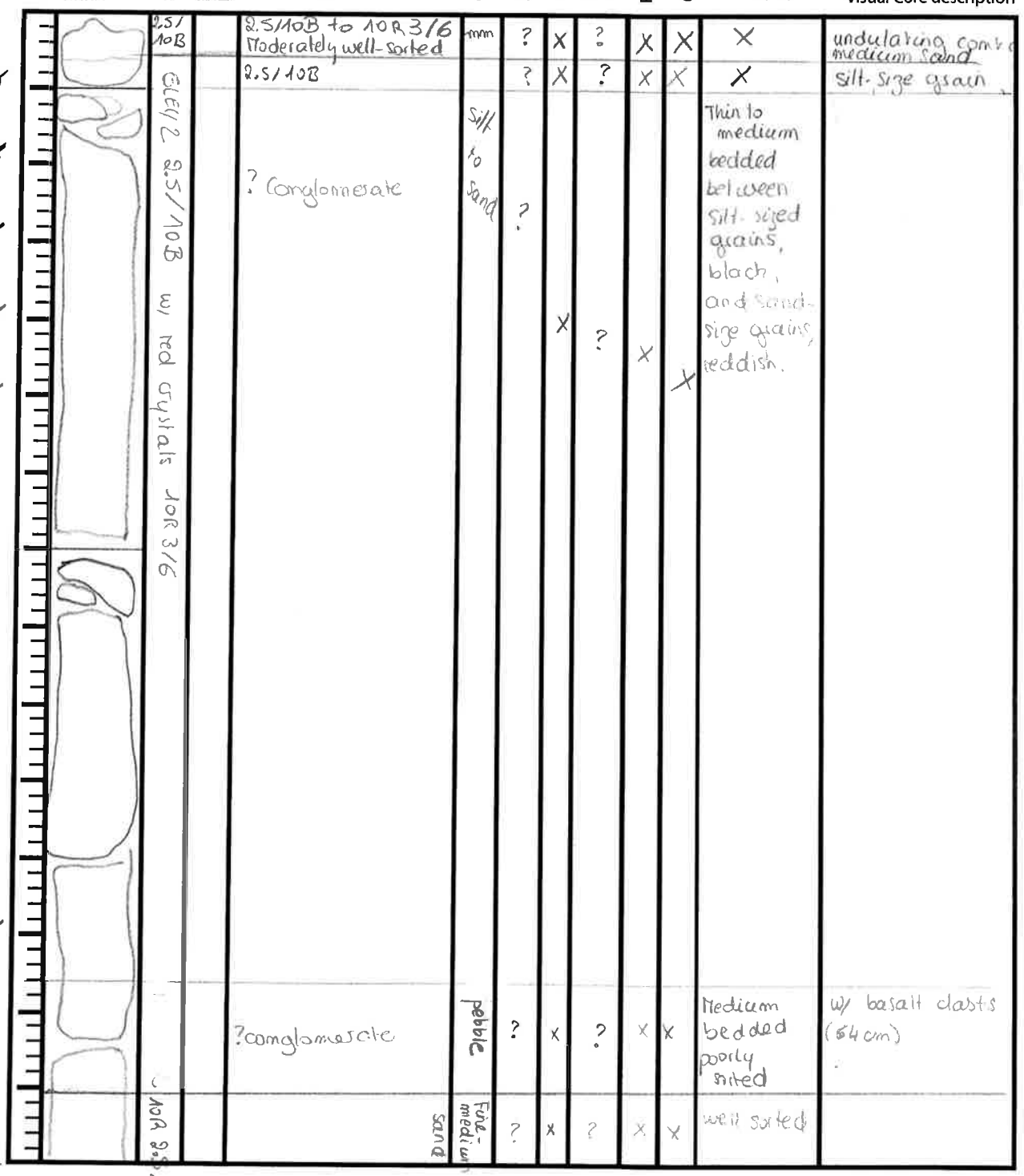


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 13X Core | 1 Section | Top Depth

Major Lithology



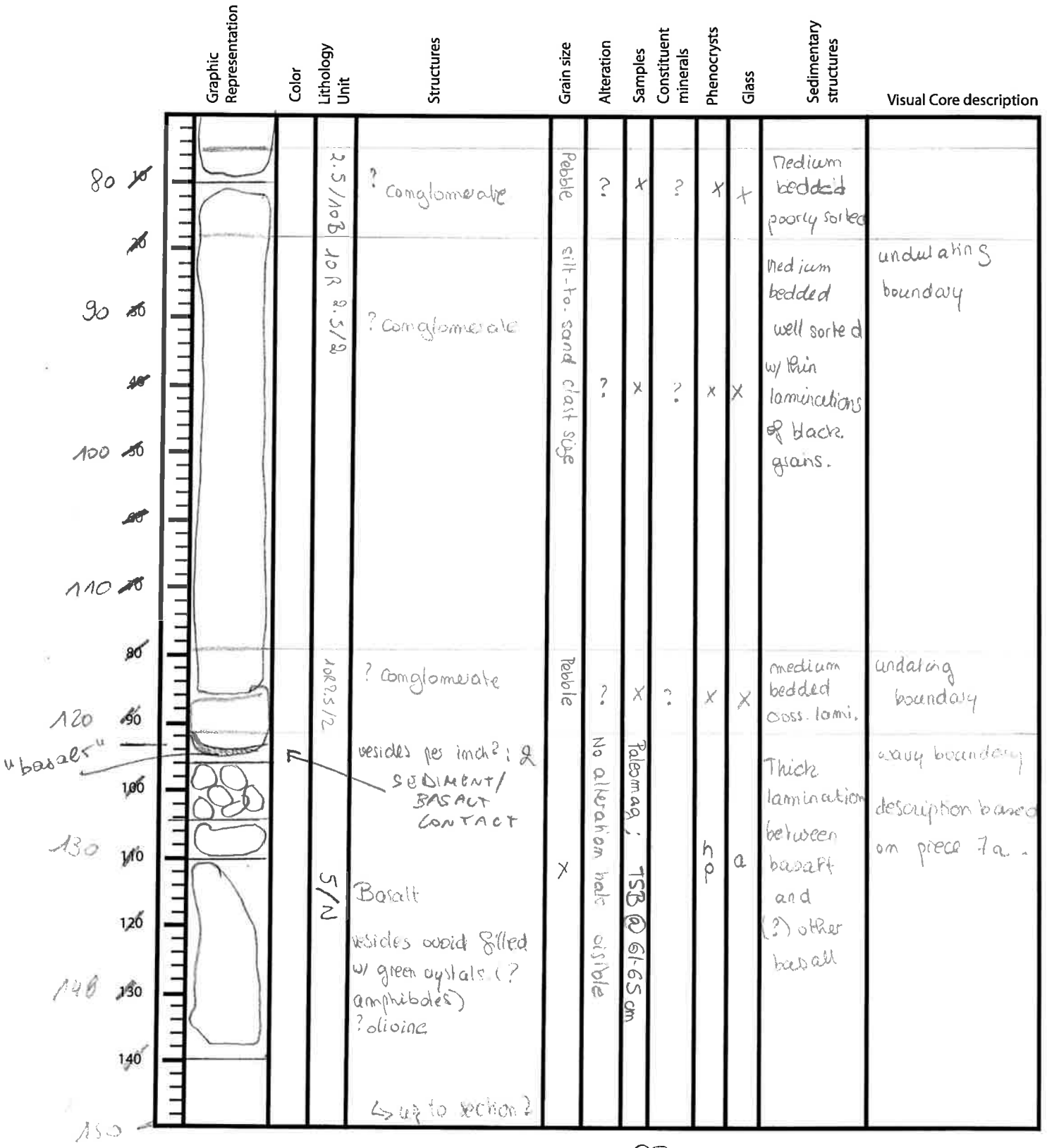
Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	2.5/10B		2.5/10B to 10R3/6 Moderately well-sorted	mm	?	X	?	X	X	X	undulating contact medium sand
	2.5/10B		2.5/10B		?	X	?	X	X	X	silt-size grain
	2.5/10B w/ red crystals 10R3/6		? Conglomerate	silt to sand	?	X	?	X	X	Thin to medium bedded between silt-sized grains, black, and sand-size grains, reddish.	
			?conglomerate	pebble	?	X	?	X	X	Medium bedded poorly sorted	w/ basalt clasts (64 cm)
	10R 2.5/2			Fine-medium sand	?	X	?	X	X	well sorted	

Observer: G.B. Date:

Expedition 323
Bering Sea
(Hard rock VCD)

1349 (Site) | D (Hole) | 13X (Core) | 1 BOTTOM (Section) | Top Depth

Major Lithology

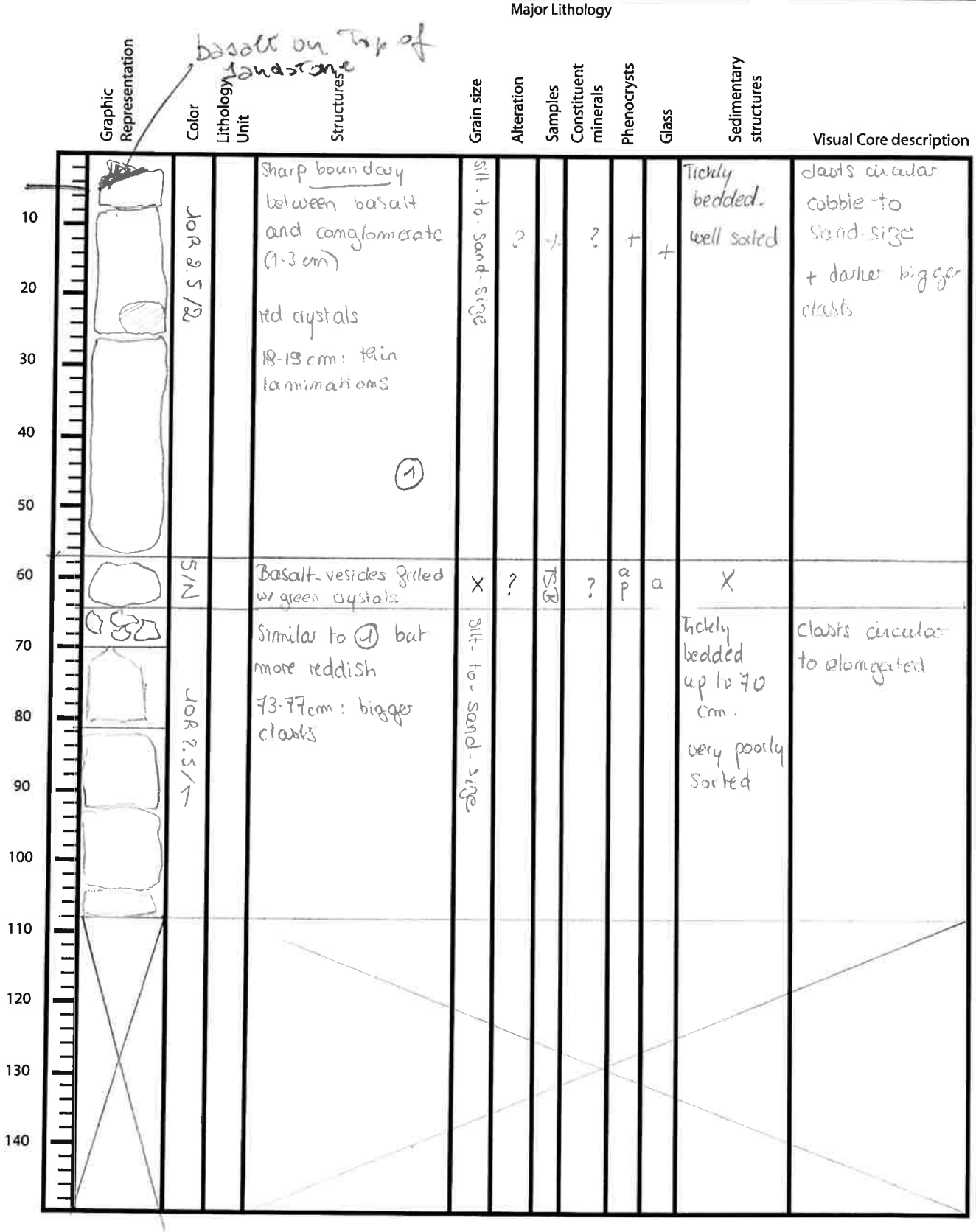


Observer: GB Date:

Expedition 323
Bering Sea
(Hard rock VCD)

1342	D	13X-	2	
Site	Hole	Core	Section	Top Depth

Major Lithology

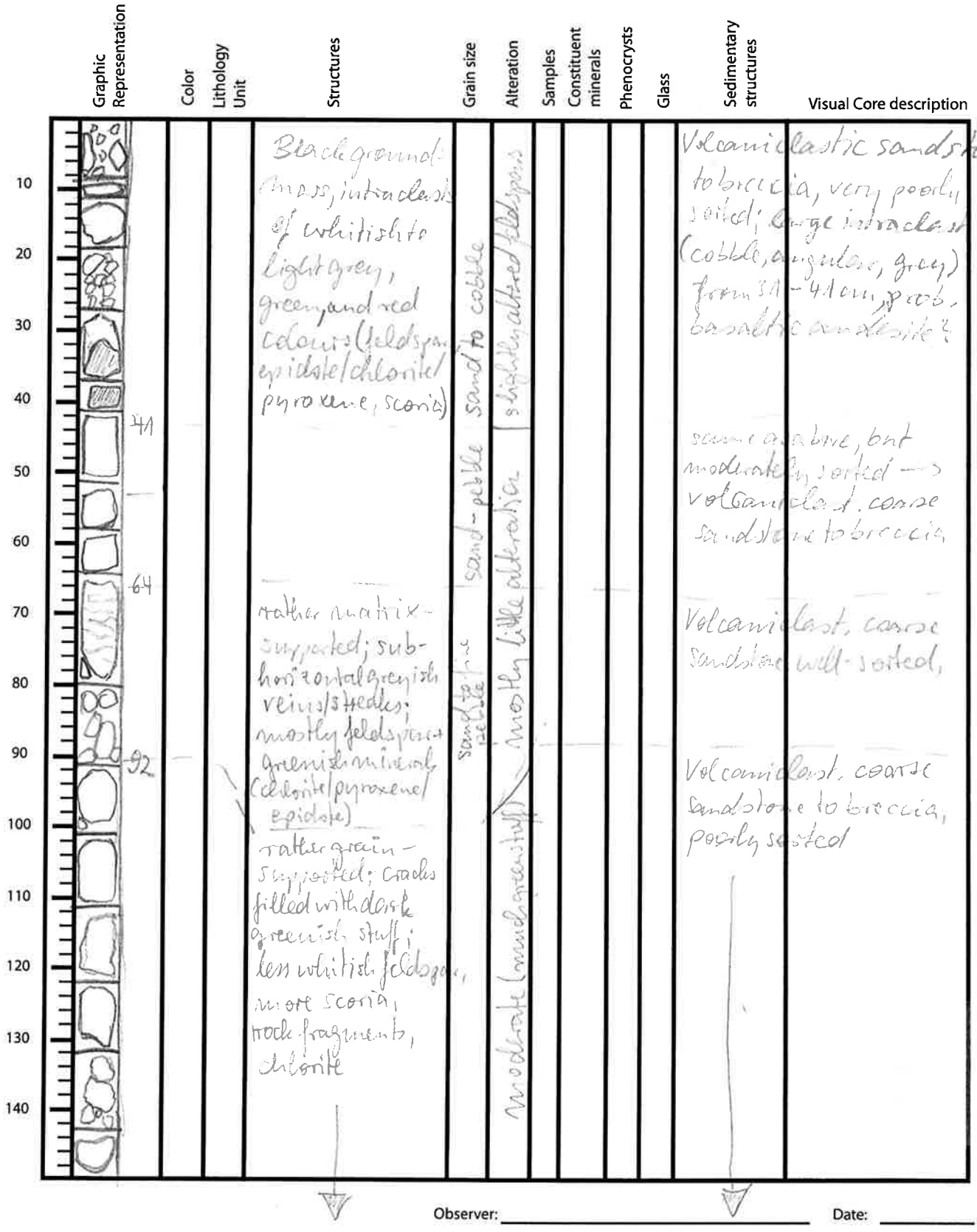


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 D 15X 1 ____
Site Hole Core Section Top Depth

Major Lithology

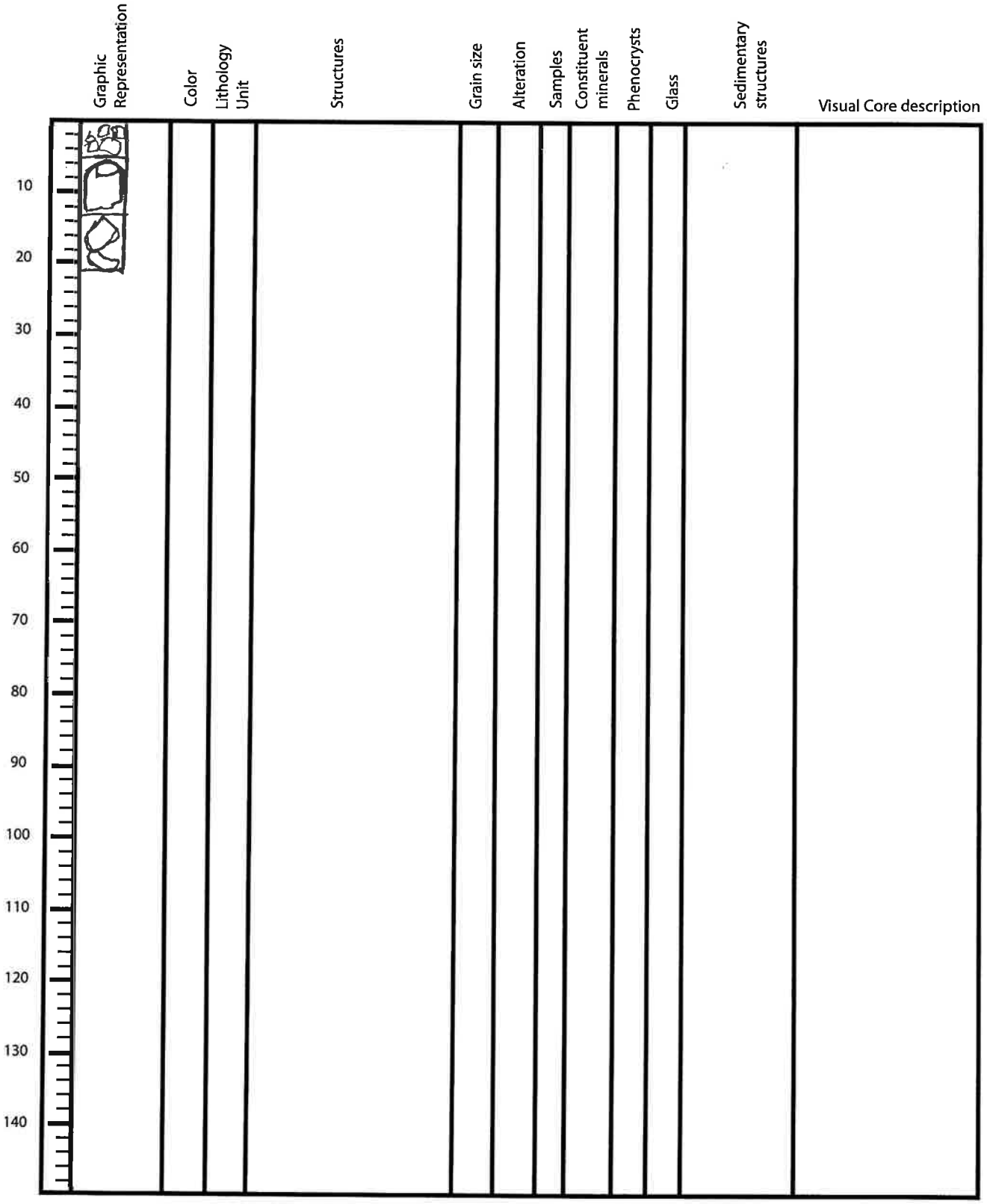


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 D 15X 2 ____
Site Hole Core Section Top Depth

Major Lithology

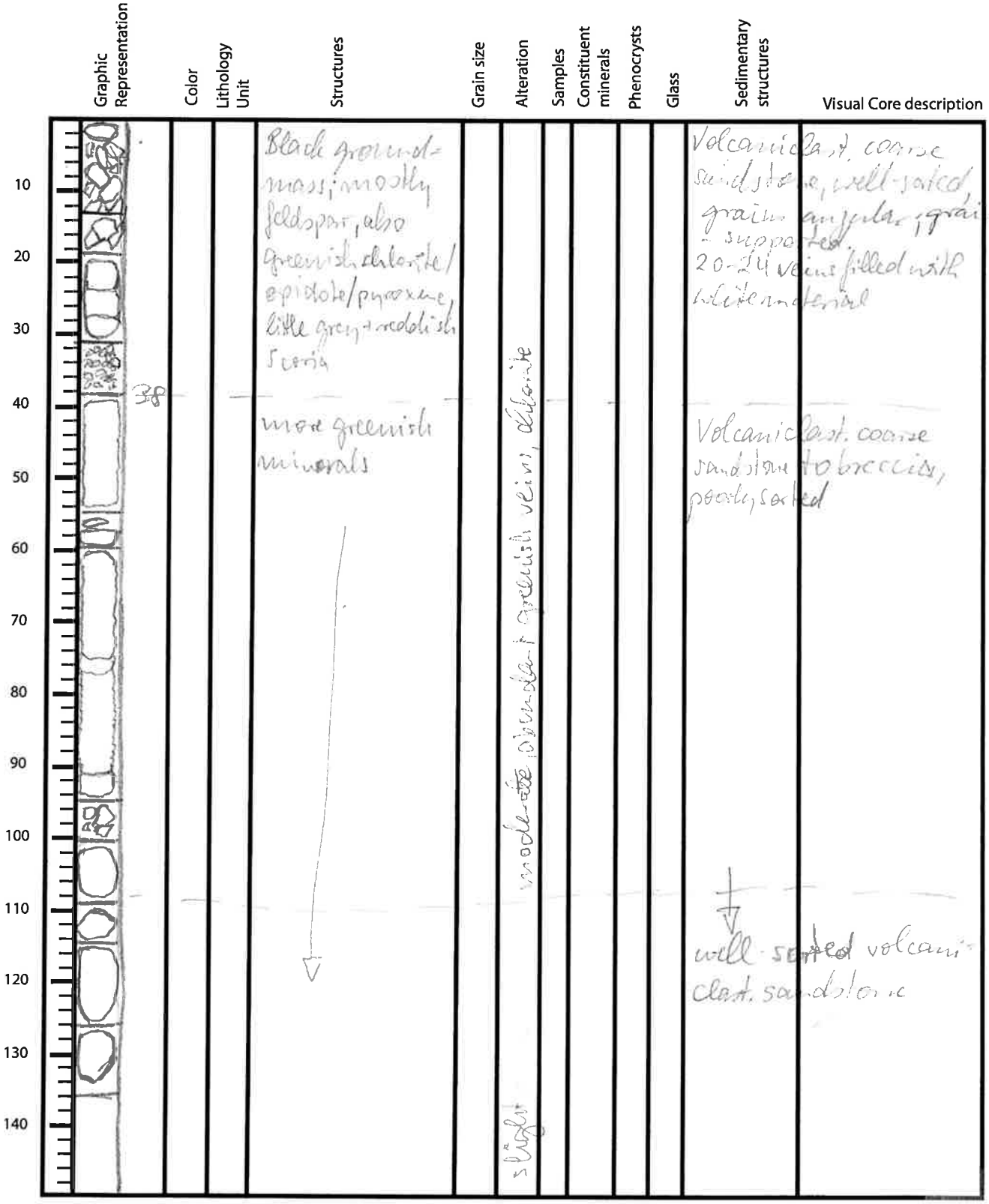


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1344 (D) 16X 1 ____
Site Hole Core Section Top Depth

Major Lithology

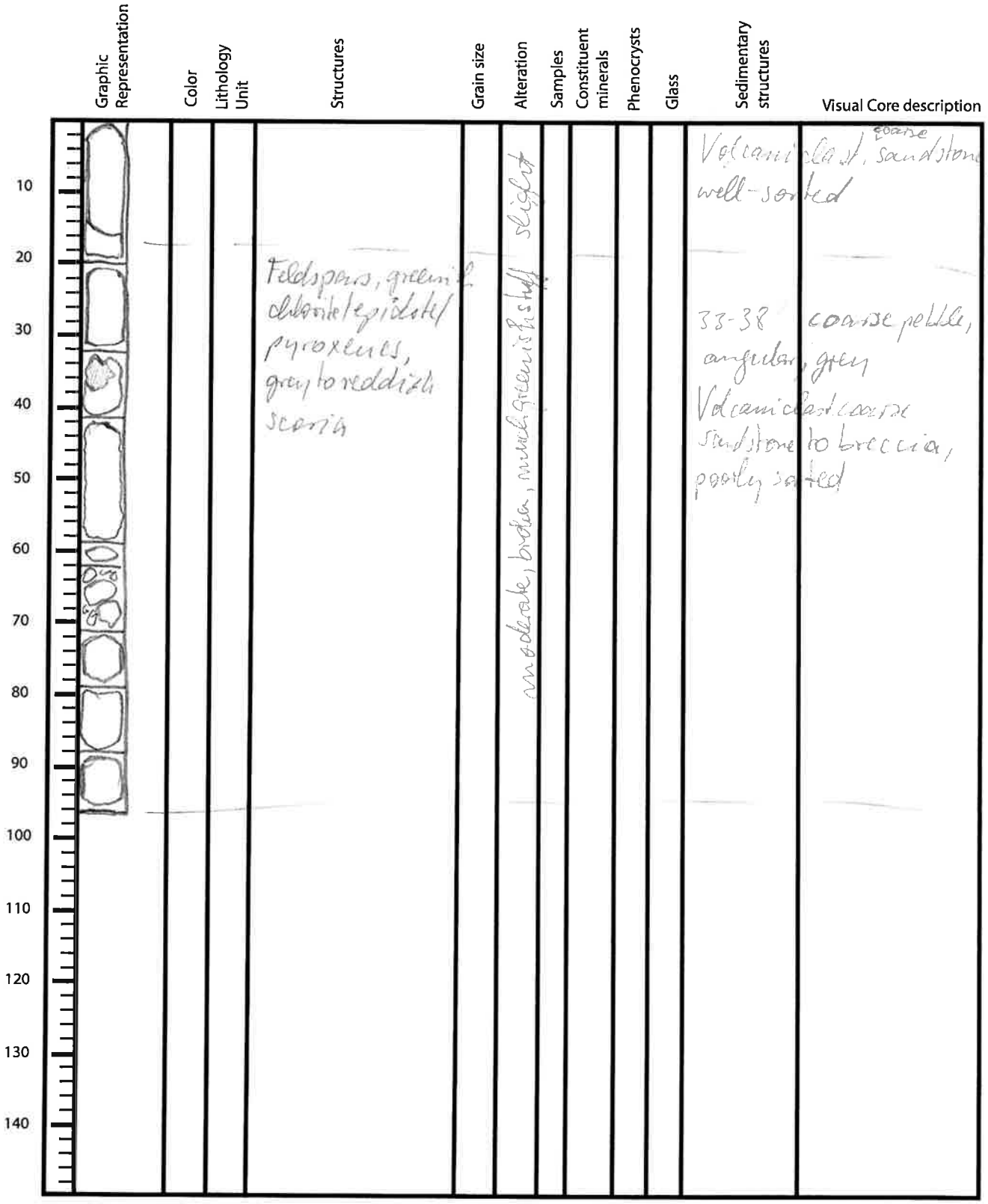


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1344 Site | D Hole | 16X Core | 2 Section | _____ Top Depth

_____ Major Lithology

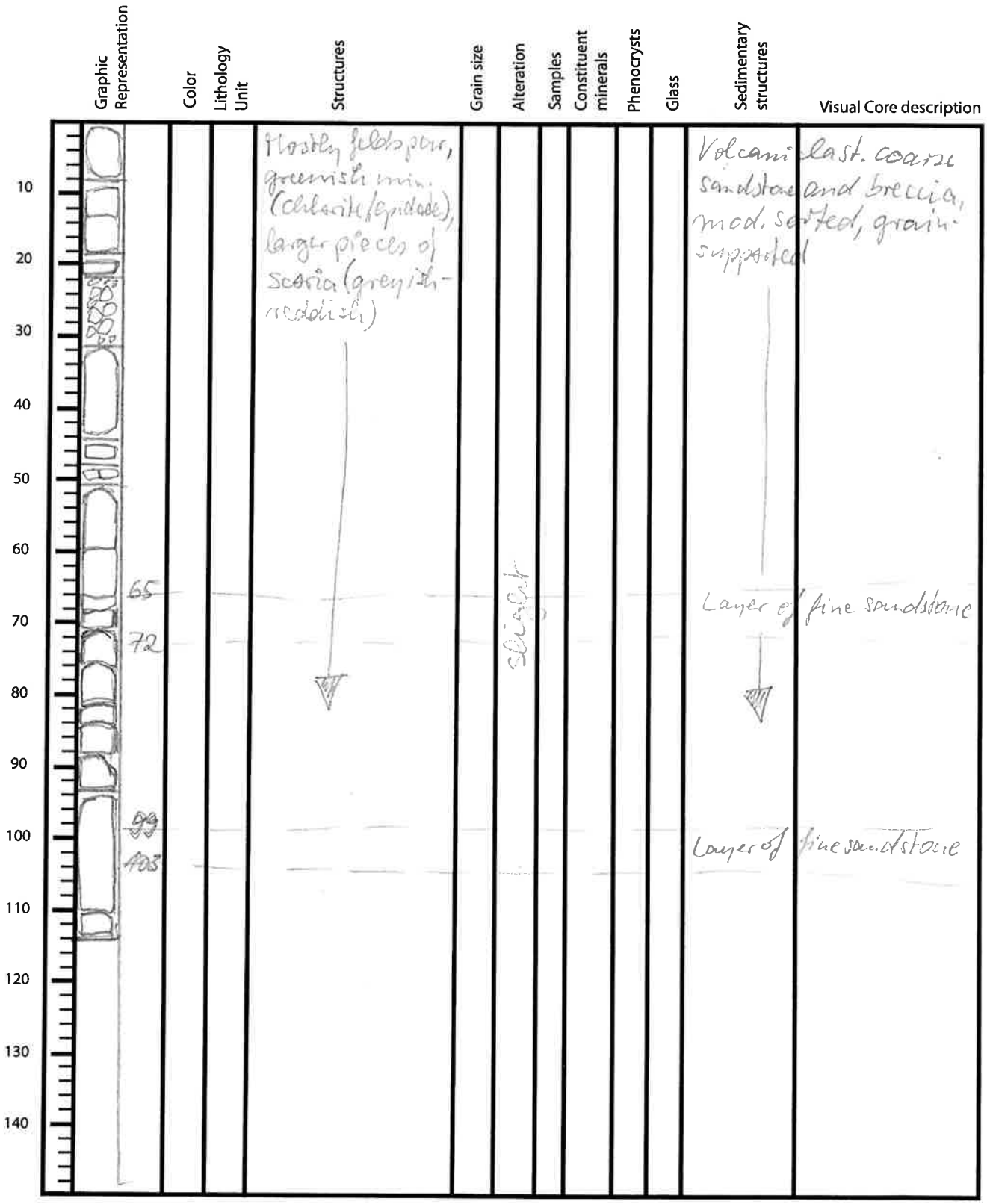


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 17X (Core) 1 (Section) _____ (Top Depth)

Major Lithology _____ _____

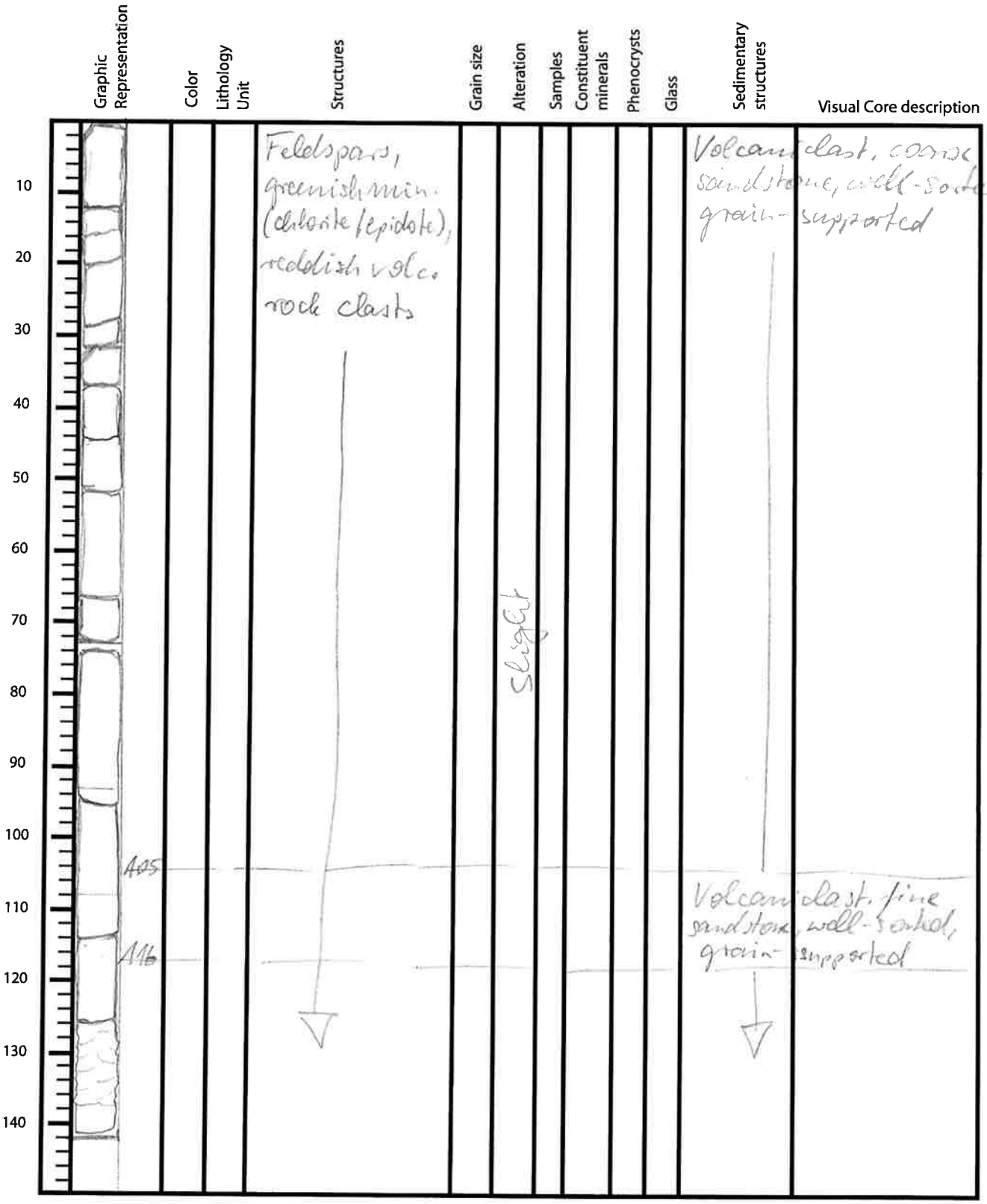


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 17X (Core) 2 (Section) _____ (Top Depth)

Major Lithology _____ _____

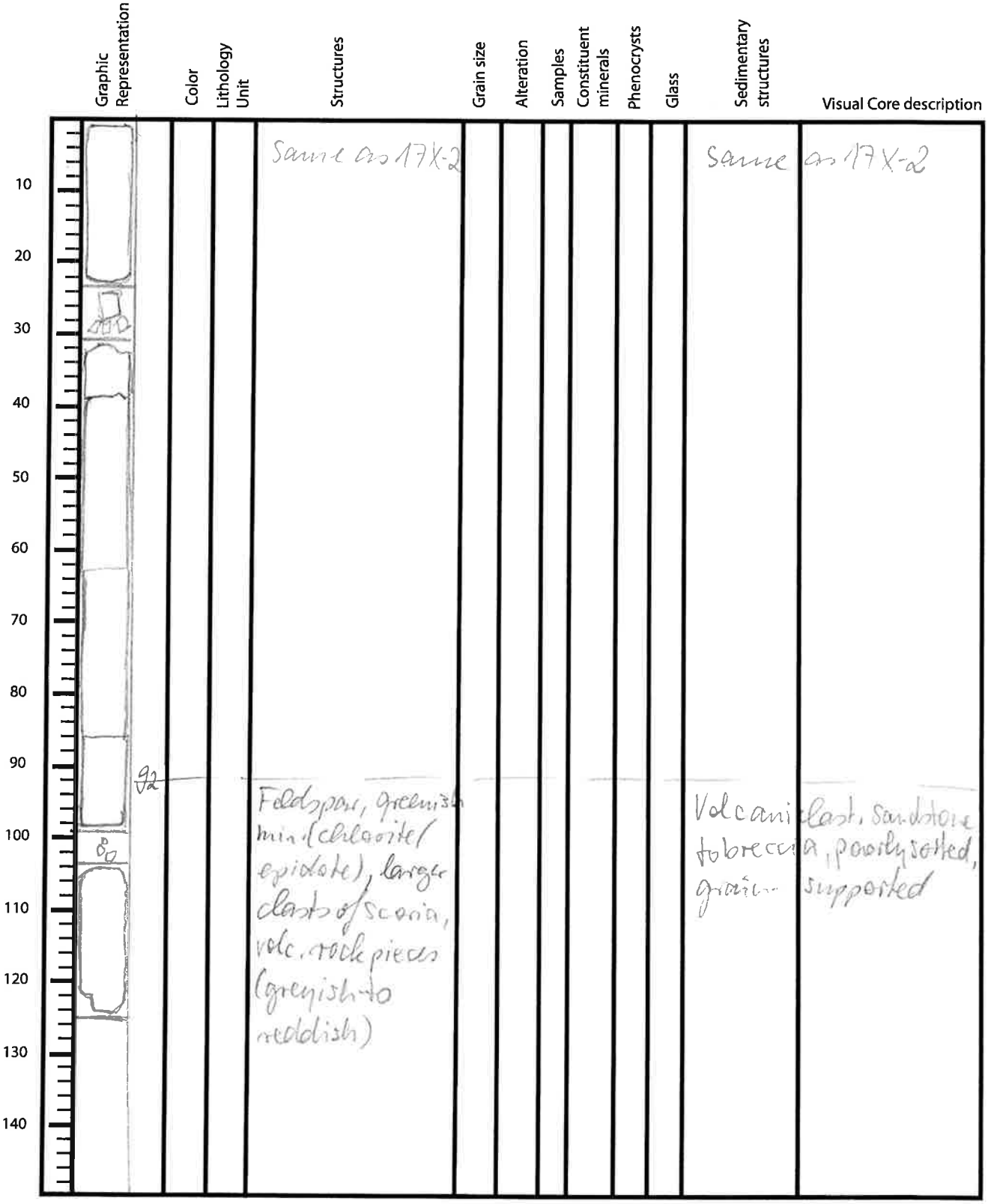


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 D 17X 3 ____
Site Hole Core Section Top Depth

Major Lithology

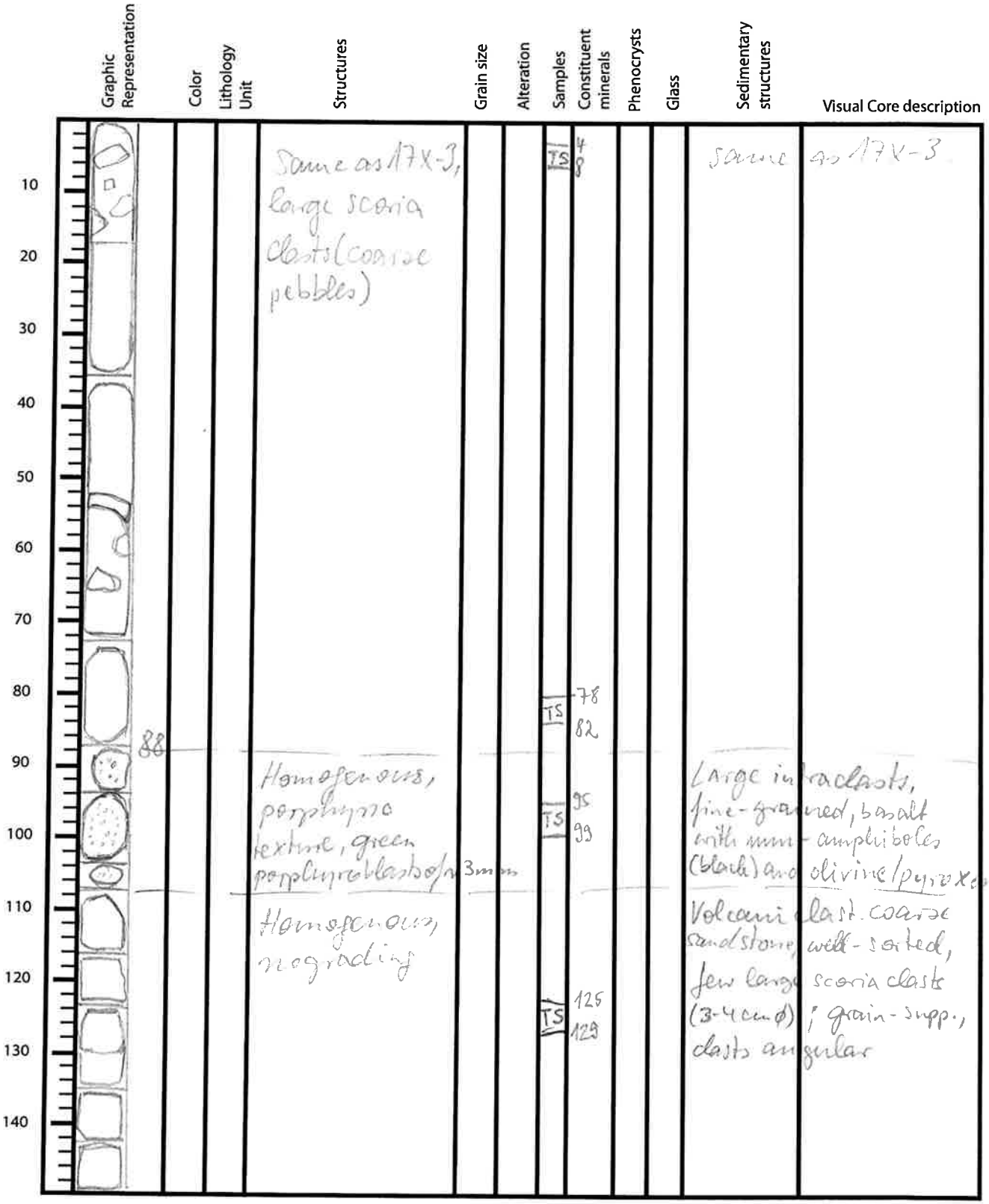


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 17X (Core) 4 (Section) ____ (Top Depth)

Major Lithology

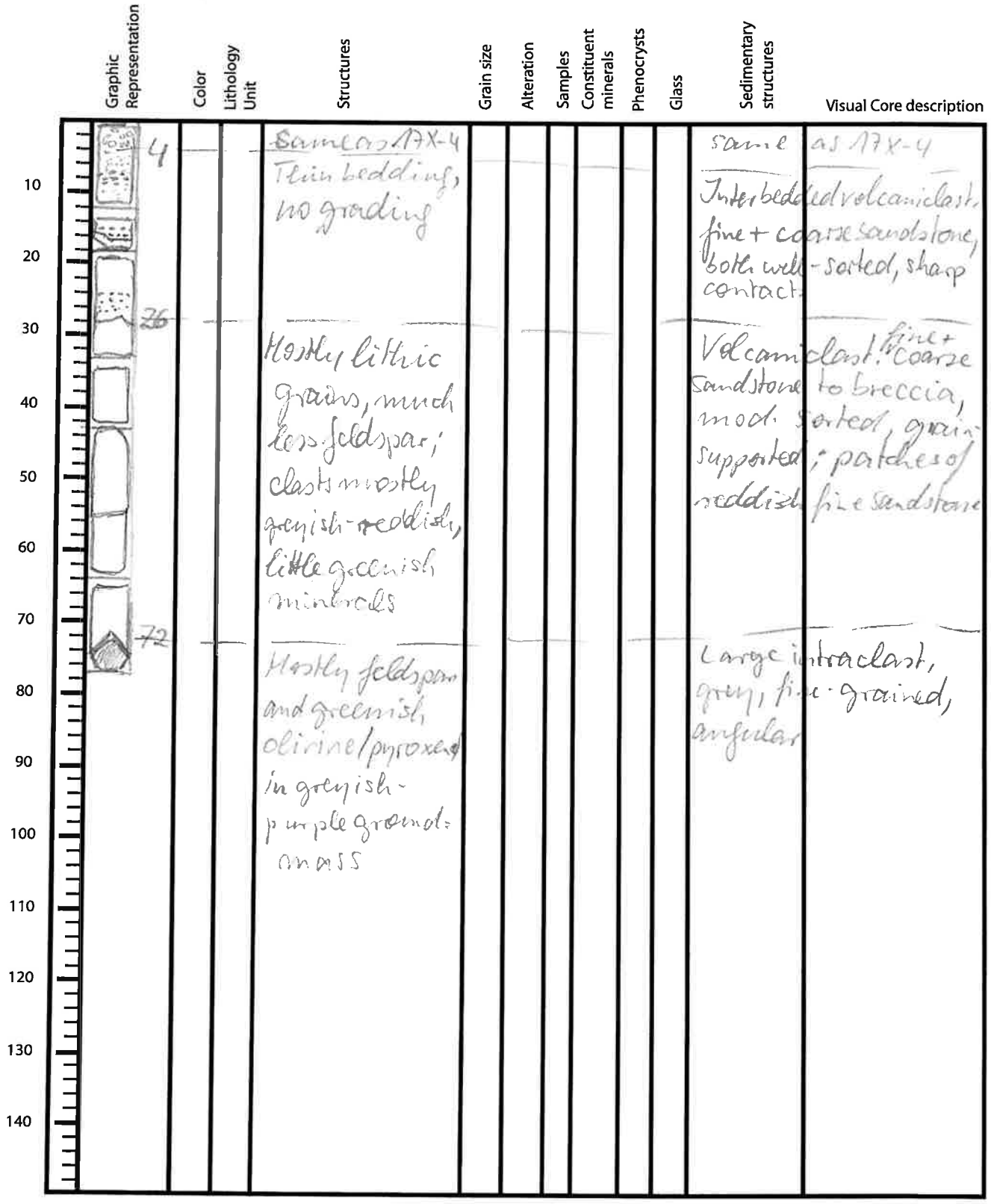


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 J | 17X | 5 | _____
Site | Hole | Core | Section | Top Depth

Major Lithology

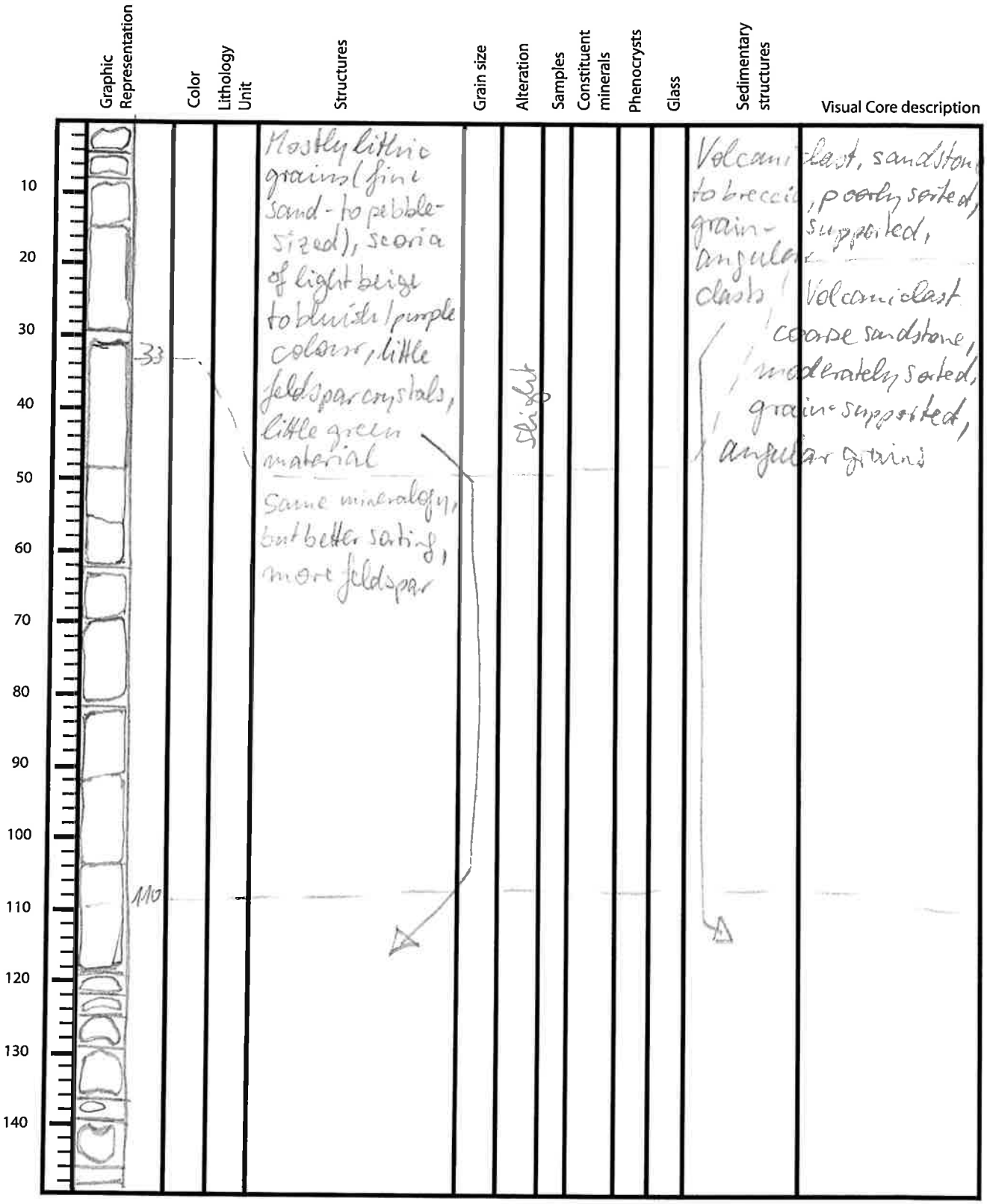


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 18X (Core) 1 (Section) _____ (Top Depth)

Major Lithology

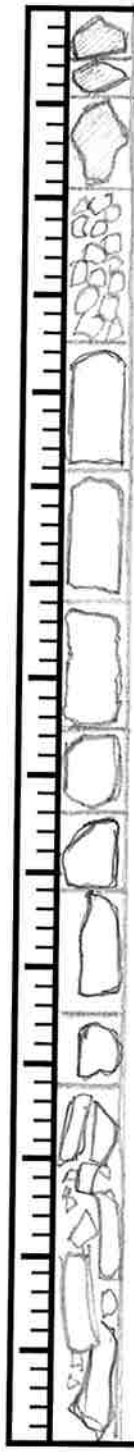


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 18X (Core) 2 (Section) _____ (Top Depth)

Major Lithology _____

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	19		porphyritic texture, greenish olivine/pyroxene, black amphibole porphyroclasts of mostly lithic grains (greyish, blueish/purple); fine sand to pebbles, scoria; few fine feldspar crystals, little greenish material	mm-cm	moderate					Fine-grained volcanic intraclasts, grey, homogenous, massiv	Vol carniclast. Sandstone to breccia, poorly sorted, grain-supported, angular clasts

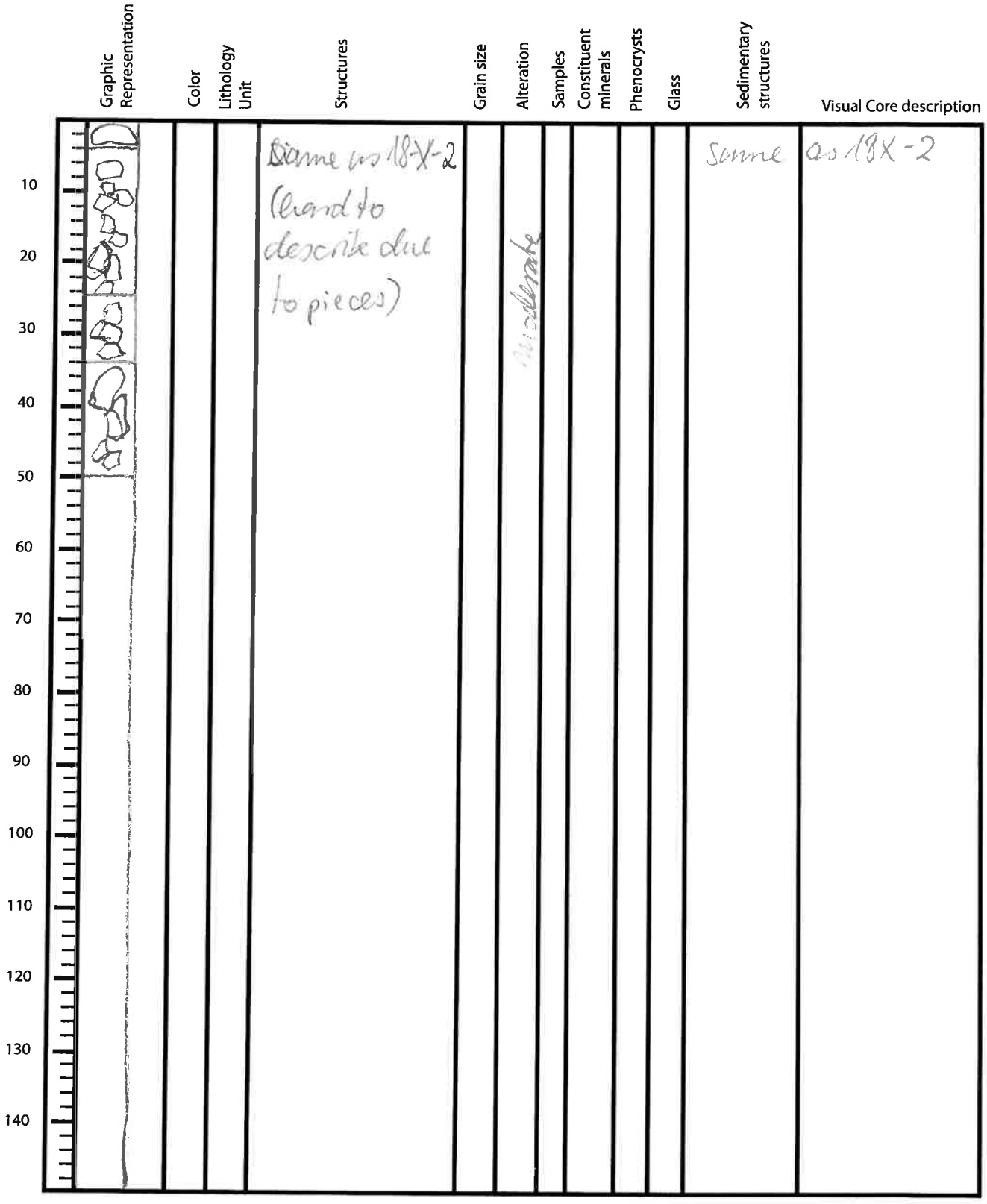
10 20 30 40 50 60 70 80 90 100 110 120 130 140

Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 | D | 18X | 3 | _____
Site | Hole | Core | Section | Top Depth

Major Lithology

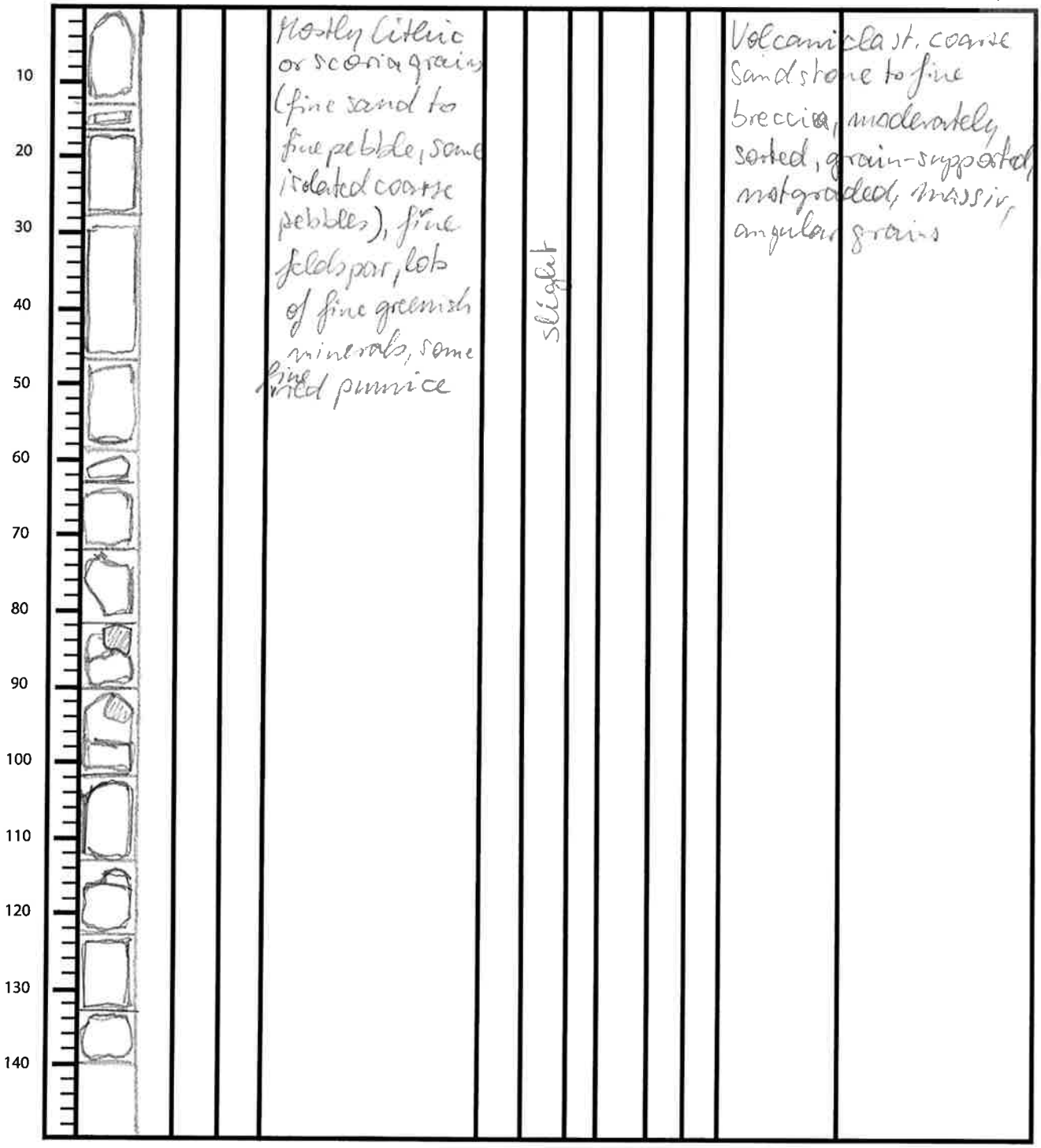


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 D 19X 1
Site Hole Core Section Top Depth

Major Lithology

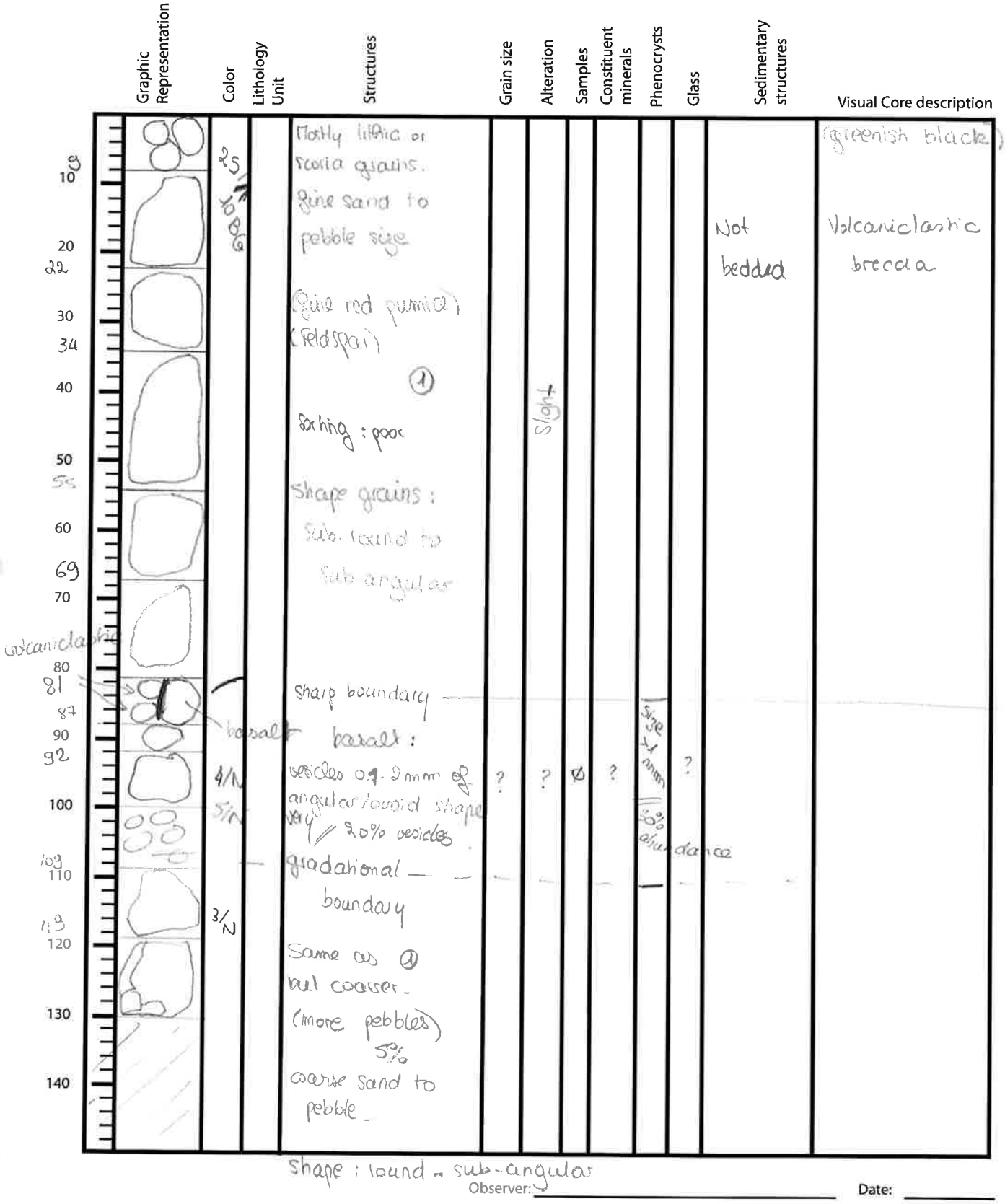


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 19X Core | 2 Section | Top Depth

Major Lithology

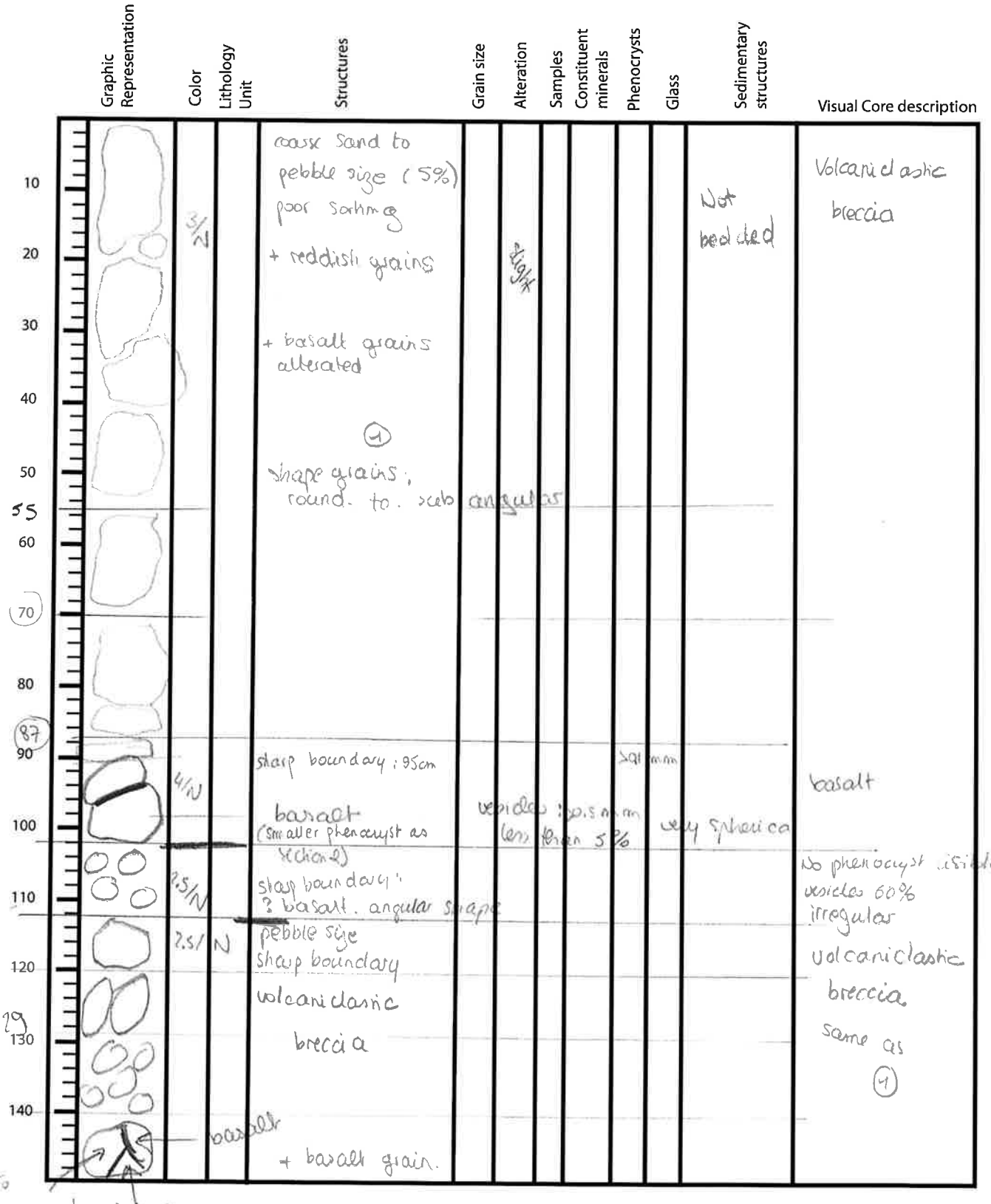


Observer: Date:

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site | D Hole | 19X Core | 3 Section | Top Depth

Major Lithology

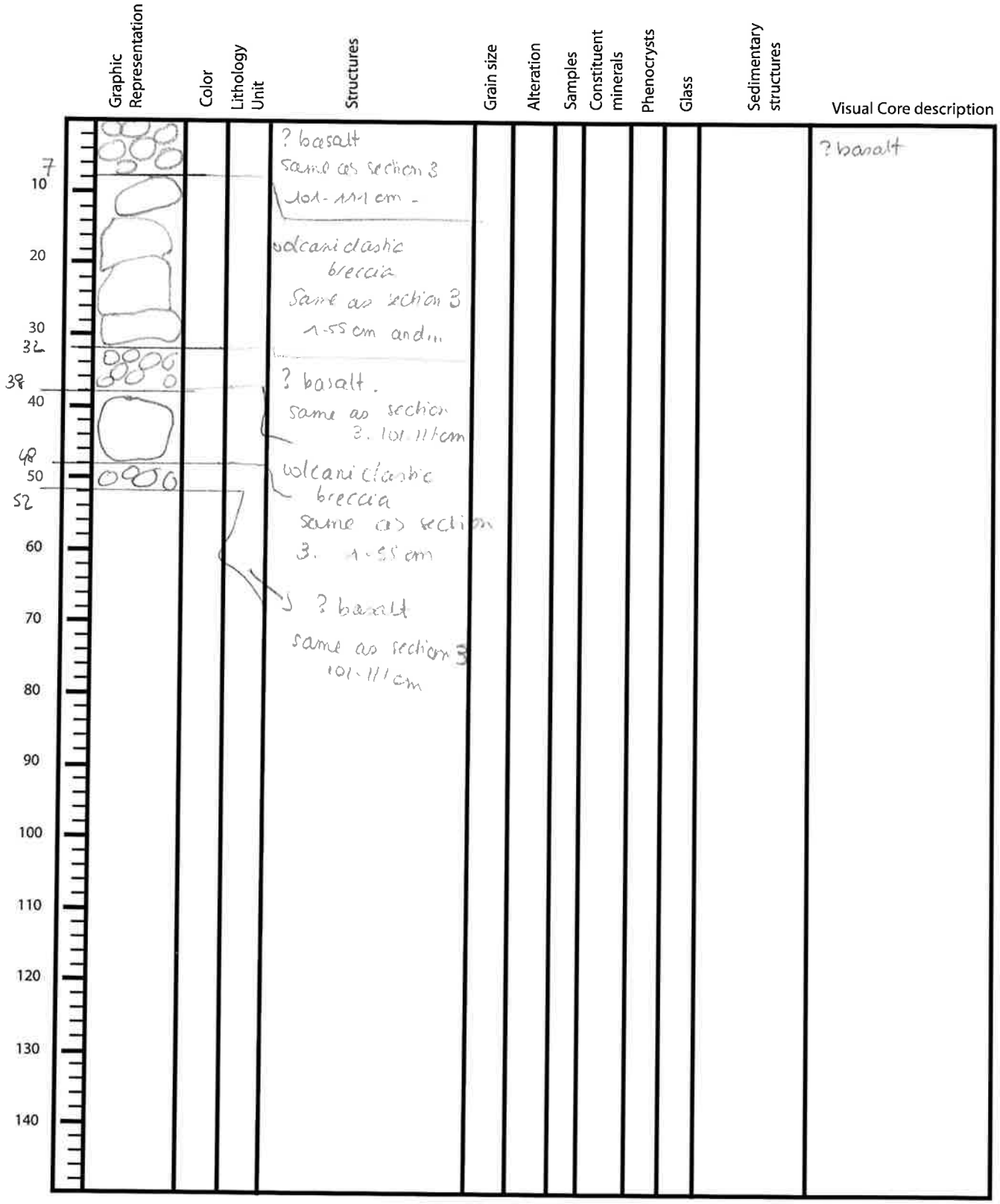


Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 (Site) D (Hole) 19X (Core) 4 (Section) _____ (Top Depth)

Major Lithology _____ _____



Observer: _____ Date: _____