

(dry color)

VESICLES/ind²

Expedition 323
Bering Sea
(Hard rock VCD)

1342

A

9X

1W

Site

Hole

Core

Section

Top Depth

GLY 1 4/N = DARK GRAY

Major Lithology

	Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
0		GLY 1 4/N		SUBCIRCULAR TO ELONGATED								VESICULAR BASALT, RELATIVELY LARGE (1-3mm) PLAGIOCLASE (ANORTHISE?) PORPHYRIES
10				HIGH VESICLES 1mm & 7mm								
20				VESICLES ARE ELONGATED & SKEWED								
30				#17 (1-2mm)								
40				#16								
50				#15								
60				NONE								
70				NONE								
80				#10								
90				NONE								
100				#10								
110												
120												
130												
140												

THIS SECTION FOR XRD

HIGHLY PHYRIC

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 7X 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
	GREY N/4 Dark Grey	17 4	Pores per square inch: (elongated vesicles) Basalt					hp = highly porphyritic	= dark glass		Groundmass: microcrystalline Vesicles: elongated color: v. dark grey

Observer: G.B. Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

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



Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
0-10			vesicles per inches 10								Groundmass: microcrystalline vesicles elongated color: very dark grey
10-20		GLAY 1 4/M									(Basalt)
20-30											
30-40											
40-50											
50-60											
60-70			Texture: *								(Sedimentary Rock)
70-80		FRAGMENTS BETWEEN	silt. size w/ few sand size clasts. Moderately sorted, poorly micritic								Volcaniclastic siltstone
80-90											
90-100			silt. medium - sand - poorly sorted								
100-110			see *								
110-120											
120-130											
130-140			silt. to pebble size very poorly sorted								
140-145			*								

IGNEOUS ROCKS

SEDIMENTARY ROCKS

27m

75

75

CONT

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

Site 1342 Hole D Core 8X Section 4b Top Depth _____

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
75 10			Poorly - Moderately sorted silty-sand								
80 20			Slight banding								
30			*								
90 40											
50											
60 60											
70											
110 80											
90											
120 100			Moderately sorted silty-sand								
110											
130 120											
130											
140 140											

Clay? silt sized, w/ elast sand-sized
 5/54G Moderately well-sorted

Observer: _____ Date: _____

Expedition 323
Bering Sea

(Hard-rock VCD)

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology	
							Visual Core description		
10	10B 2.5/11	Silt to med. sand, poorly sorted, poorly rounded grains					0-133 sedimentary rock → Volcaniclastic		
20		Silt to pebbles, poorly sorted, angular grains					Siltstone to Sandstone, some Breccia lithous		
30									
40									
50			41-43 breccia, coarse sands to pebbles 49-56 silt to sand, poorly sorted						
60									
70									
80									
90			Silt-to sandstone, partly breccia						
100			soft, granular mixture of clayey silt with angular, fine pebbles and pebbles of volcaniclast. siltstone						
110			Silt to fine sand, poorly sorted, thin black lamina						
120		10K 2.5/11	Laminated Silt to Sand, altered at rims, fractured, slightly more greenish						
130			Breccia of volcanic fine to coarse pebbles						
140									

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site D Hole 9X Core 1 Section Top Depth

Major Lithology

Sedimentary rock (volcaniclastic)

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	5GY 2.5/1	1/1	Greenish streaks, maybe altered matrix material; comp. with colors from dark gray to light gray to dark greenish to reddish		mod.	T58					Volcanoclast. Breccia, fine to coarse pebbles, angular, poorly sorted, not graded
	NOG 2.5/1	68	Fine fraction (sand) rather greenish								Coarse sand to Breccia, fine to med. pebbles, angular, poorly sorted
	5GY 2.5/1	85	68 cm sharp grain size change		mod.	T58					Silt to coarse sand, few breccia patches with fine pebbles, poorly sorted Breccia, med. to coarse pebbles, angular well-sorted

Observer: _____

Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1242 Site D Hole 9X 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
	N/Y/N		14 sharp change in grain size								Breccia, fine to coarse pebbles mod. sorted. Fine to coarse sand, mod. sorted, isolated fine to med. pebbles
			Thin bedding of coarse + fine layers								Sands to breccia, med. sand to fine pebbles, poorly sorted Bedded med. to coarse sand + fine pebbles, single layers, mod. sorted
	S/Y/N		80-94 De-watering structures, concave-up, dark brown in gray matrix 106-110 "			TS					Silt to fine sand, well-sorted, few isolated pebbles fine
	V/S/Y/N		125 sharp contact, below lighter color + slightly coarser			TMAG					Silt to med. sand, mod. sorted

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 9X Core 3 Section Top Depth

Major Lithology


Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
10-15	2.5 5/1 15		15 sharp change in grain size			TSB					Silt to sand, mod. sorted, few isd. fine pebbles
15-20			29 grad. contact								Sand to coarse pebbles, very poorly sorted
20-30		ADG 2.5/1									Breccia, fine to med. pebbles, some coarse sand, poorly sorted
30-60											
60-70			66-70 white thin veins								
70-110											
110-120											
120-130	119		119 sharp change in grain size								Med. to coarse sand, fine pebbles, mod. sorted
130-140			150 #								Silt to fine sand, well-sorted

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 10X A
 Site Hole Core Section Top Depth

Major Lithology

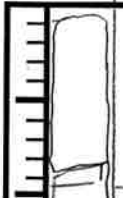
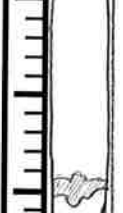
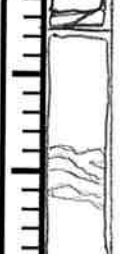
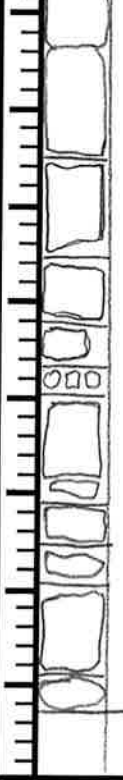
Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
		N/S/N									<p>10-42: Fine to coarse sand, mod. sorted, few isolated fine pebbles</p> <p>42-58: Thin bedding</p> <p>58-69: vein, greenish filling + zeolite crystals</p> <p>69-120: Some coarse pebbles slightly vesicular, voids can be open or filled</p> <p>120-140: Breccia, fine to coarse pebbles, very poorly sorted, polymict</p>
		SGY									

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 10X 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
	5G12.S1A		Many cored lapilli								Breccia, fine to coarse pebbles, poorly sorted, polymict
	5Y2.S1A		Many cored lapilli; coarse pebbles + fine cobbles with clear vesicles, partly internal flow structure								29-42: Breccia to silt/sand-stone, fine sand to coarse pebbles, very poorly sorted, even fine cobbles, mono- to oligomict
											58-62 brownish undulating silt-sand layers,
											

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 10X Core 3 Section _____ Top Depth

Major Lithology _____

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
		SR.S1A	Many coarse lapilli; coarse comp. with vesicles								<p>Breccia to fine sandstone, poorly sorted, mono-to oligomict</p> <p>47-48 thin laminae of silt between pebbles, undulated</p>

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Φ 10X 4
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
		SYR.S.1A									<p>as 10X-3</p> <p>sluff from grain-supported to matrix-supported. Fine to coarse pebbles in fine groundmass of silt(?); bimodal grain size distribution</p>

Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342
Site

1
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
		2.5N ground mass w/6N clasts	<p>vesiculated "basalt" clasts</p> <p>poorly sorted</p> <p>most have halo surrounding it.</p> <p>some vesicles have pale blue mineral coating</p> <p>others filled w/ white XLS or pyrite</p> <p>clast-supported</p> <p>Matrix = v. fine grain, no vesicles visible</p> <p>vesicles are elongate in general</p> <p>11X 10A:</p> <p>subangular clasts</p> <p>poorly sorted clasts</p> <p>Basalt clasts w/ halo</p> <p>Bottom 2cm is lg basalt (vesiculated) piece. Vesicles filled w/ calcite</p> <p>Some clasts: altered glass?</p> <p>sm. vesicles = spherical</p> <p>lg. vesicles = ovoid.</p> <p> to bedding</p>	mm to 5cm	Relatively fresh						


Observer: _____

Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole MX Core 2 Section Top Depth

Major Lithology

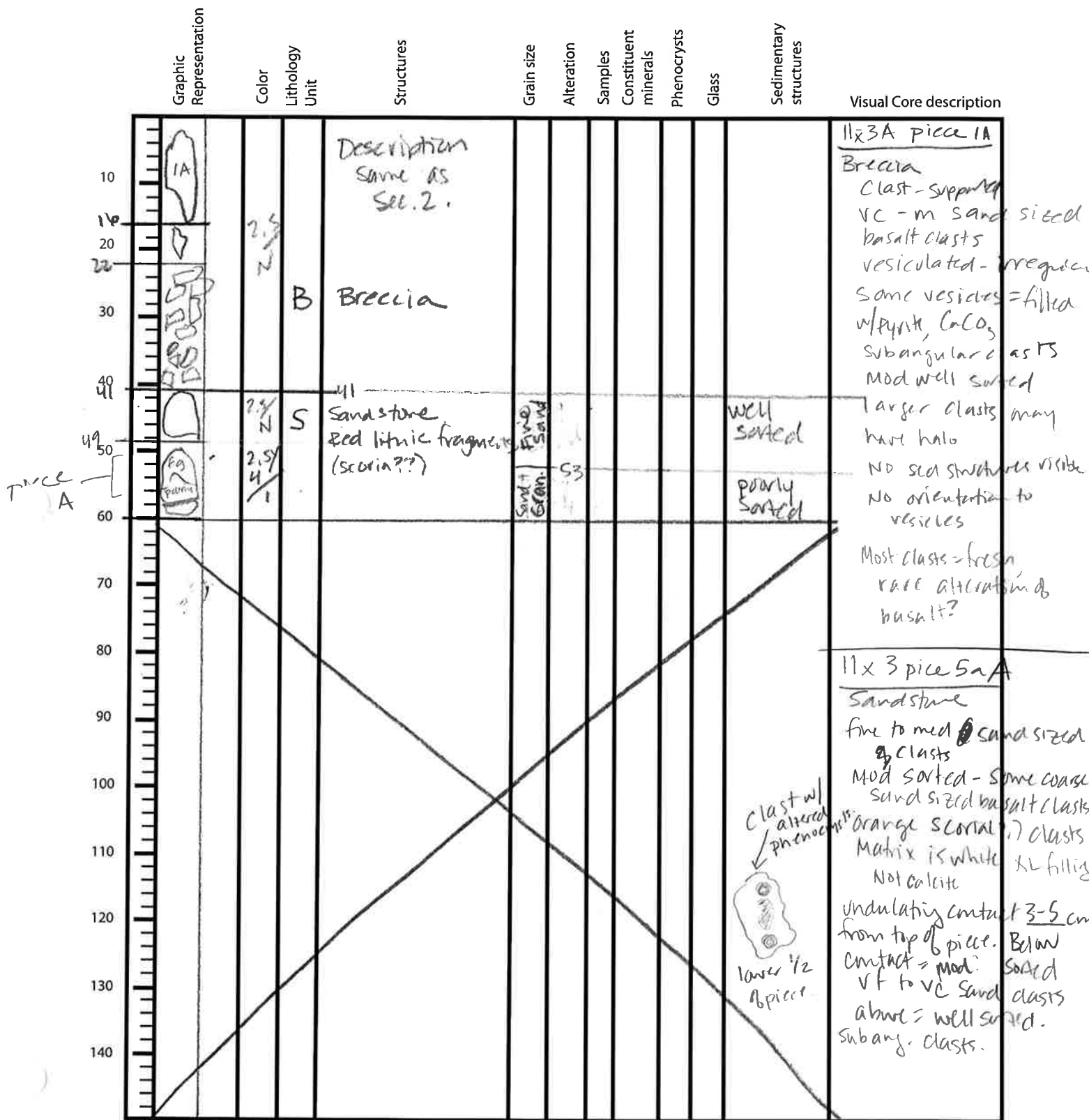
Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
8 10 14 16.5 20 20.5 30 35 40 42 50 55.5 60 65 70 78 80 90 99 100 106 110 114.5 120 123 130 133 136 140	29 5/2 5/2	B	<p>Pipe vesicles</p> <p>Vesiculated Basalt</p> <p>Maybe 1 clast from breccia or may be primary flow?</p> <p><u>Breccia</u></p> <p>Desc. same as sec. 1</p>		REFRESH	8-14 TS				 <p>Clast w/ vesicles & alteration</p>	<p>Piece 11X 2A 14A</p> <p>description essentially the same as 11X 3A piece 1A</p>

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 9 128 1
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	N/S/N		VERY POORLY SORTED, POLYMIC BRECCIA, clasts zone between 2cm to 1cm, clast supported								
			SANDSTONE, LAMINATED, (5m-1cm thick) THE BANDER BANDS ARE COMPOSED OF FINE-SAND TO SILT AND DARK (VITRIC?) MATERIAL								CONJUGATE FAULTS
			SILT TO SAND SIZE, MODERATELY WELL SORTED, UPPER 40cm ARE COARSER								
	N/S/N		SAME AS 26a to 68m								

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

Site 1342 Hole D Core 12 Section 2 Top Depth

Major Lithology

SS - SLUMPING

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
		IOR 5/1 IOR 2.5/1	<p>MOSTLY MEDIUM TO FINE SAND, MODERATELY WELL SORTED, DARK BANDS (MOSTLY SILT AND VITRIC MATERIAL) ARE DISPLACED BY A NORMAL FAULT WITH ~3cm THROW</p> <p>THE DARK-RED MATRIX IS VERY ABUNDANT AND FINE LAMINAE OF SILT AND FINE SAND ARE BENT SUGGESTING SOFT SEDIMENT DEFORMATION</p> <p>FINE SANDSTONE</p>							SS SS SS SS	

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

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

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
	Q.S/10B		Q.S/10B to 10R3/6 Moderately well-sorted	mm	?	X	?	X	X	X	undulating, coarse medium sand
	Q.S/10B		Q.S/10B		?	X	?	X	X	X	silt-size grain
	Q.S/10B		? Conglomerate	Silt to sand	?						Thin to medium bedded between silt-sized grains, black, and sand- size grains, reddish.
	Q.S/10B		w/ red crystals			X	?	X	X		
	10R3/6										
	Q.S/10B		? conglomerate	pebble	?	X	?	X	X	Medium bedded poorly sorted	w/ basalt clasts (54cm)
	10R3/6			Fine-medium SAND	?	X	?	X	X	well sorted	

Observer: G.B.

Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1340 Site D Hole 13X Core 1 Bottom Section Top Depth

Major Lithology

	Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
80			2.5/10B	? conglomerate	Pebble	?	X	?	X	X	Medium bedded poorly sorted	
90			10R 8.5/8	? conglomerate	silt-to-sand clast size	?	X	?	X	X	Medium bedded well sorted w/ thin laminations of black grains.	undulating boundary
100			10R 8.5/2	? conglomerate	Pebble	?	X	?	X	X	medium bedded cross. lami.	undulating boundary
110				vesicles per inch?; SEDIMENT/BASALT CONTACT		No alteration halo visible	Falcumag; TSB @ 61-65 cm				Thick lamination between basalt and (?) other basalt	exogy boundary description based on piece 7a.
120			5/N	Basalt	X							
130				vesicles void filled w/ green crystals (? amphiboles) ? olivine								
140												
150				↳ up to section 2								

Observer: G.B. Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 13X- 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
		JOR 2.5/12	<p>Sharp boundary between basalt and conglomerate (1-3 cm)</p> <p>red crystals</p> <p>18-19 cm: thin laminations</p> <p style="text-align: center;">①</p>	silt- to sand-size	?	+	?	+	+	Tightly bedded, well sorted	clasts circular to sand-size + darker bigger clasts
		5/M	Basalt- vesicles filled w/ green crystals	X	?	FB	?	a	a	X	
		JOR 2.5/17	<p>Similar to ① but more reddish</p> <p>73-77cm: bigger clasts</p>	silt- to sand-size						Tightly bedded up to 70 cm. very poorly sorted	clasts circular to elongated

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 15X 1
 Site Hole Core Section Top Depth

Major Lithology


Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
10-41			Black groundmass, intraclastic of whitish to light grey, green and red colours (feldspar, epidote/chlorite/pyroxene, scoria)	sand to cobble	slightly altered feldspars						Volcaniclastic sandstone to breccia, very poorly sorted; large intraclastic (cobble, angular, grey) from 3A-4A cm, prob. basaltic andesite?
41-64				sand- pebble							same as above, but moderately sorted -> volcaniclast. coarse sandstone to breccia
64-92			rather matrix-supported; sub-horizontal greyish veins/streaks; mostly feldspar + greenish mineral (chlorite/pyroxene/epidote)	sand to fine pebble	mostly little alteration						Volcaniclast. coarse sandstone well-sorted,
92-140			rather grain-supported; cracks filled with dark greenish stuff; less whitish feldspar, more scoria, rock fragments, chlorite		moderate (moderate green stuff)						Volcaniclast. coarse sandstone to breccia, poorly sorted

Observer: _____ Date: _____

Expedition 323
Bering Sea
(Hard rock VCD)

1342 Site D Hole 15X 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
											

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1344 Site D Hole 16X 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
			<p>Black ground-mass; mostly feldspar, also greenish chlorite/epidote/pyroxene, little grey, reddish scoria</p> <p>more greenish minerals</p>		<p>moderate abundant greenish veins, chlorite</p> <p>slight</p>						<p>Volcaniclast. coarse sandstone, well-sorted, grains angular, grain-supported 20-24 veins filled with white material</p> <p>Volcaniclast. coarse sandstone to breccias, poorly sorted</p> <p>↓ well-sorted volcaniclast. sandstone</p>

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1344 Site D Hole 16X 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
					slight						<p>10-20 cm: Volcanic clast, ^{coarse} sandstone, well-sorted</p> <p>20-38 cm: Feldspars, greenish chlorite/epidote/pyroxenes, gray to reddish scoria</p> <p>38-50 cm: 38-38 coarse pebble, angular, grey</p> <p>50-140 cm: Volcanic clast coarse sandstone to breccia, poorly sorted</p>

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 17X 1
 Site Hole Core Section Top Depth

Major Lithology

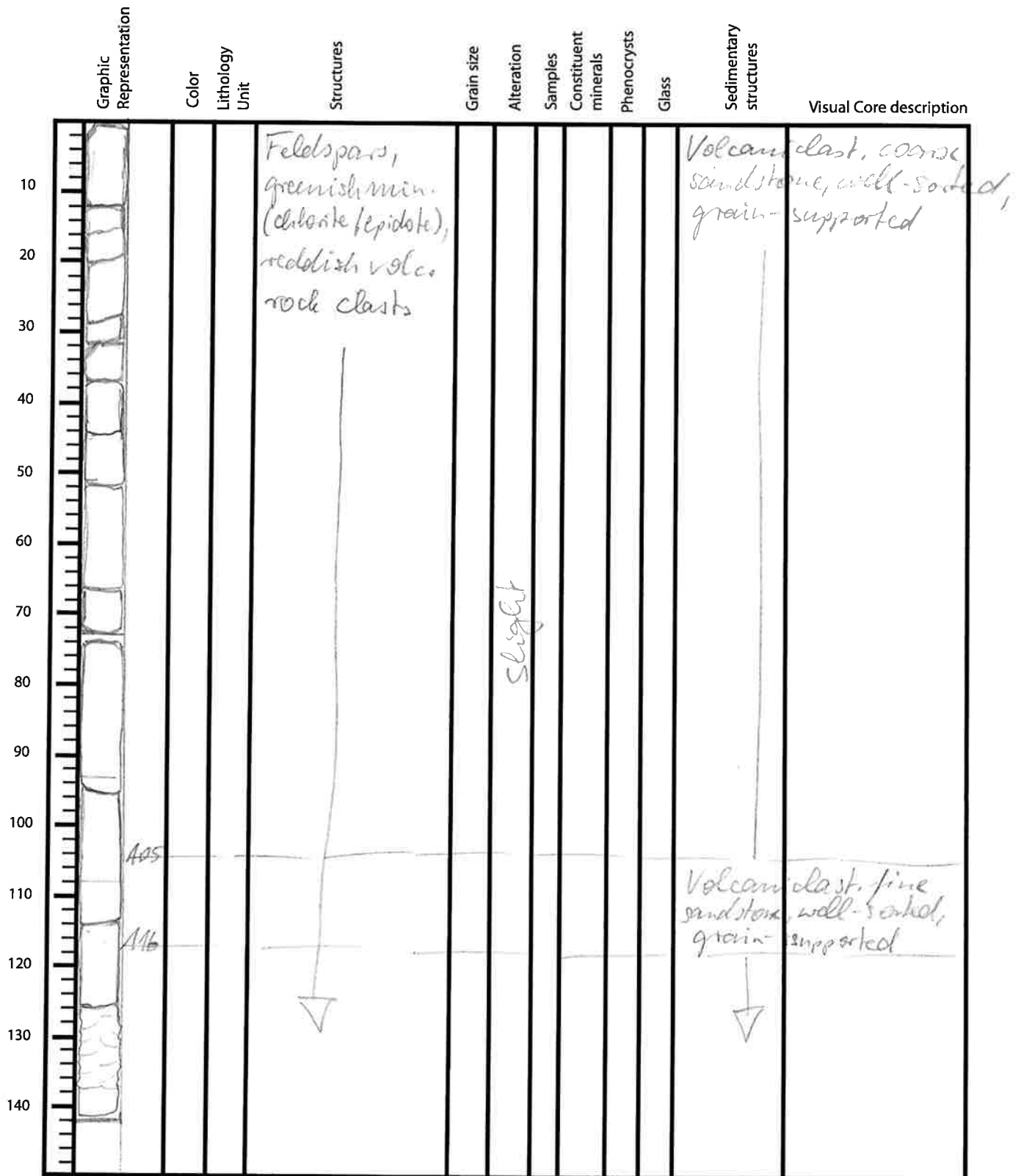
Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
			<p>Mostly feldspar, greenish min. (chlorite/epidote), larger pieces of scoria (greyish-reddish)</p>		slight						<p>Volcanic last. coarse sandstone and breccia, mod. sorted, grain-supported</p> <p>Layer of fine sandstone</p> <p>Layer of fine sandstone</p>
		65									
		72									
		99									
		103									

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 0 17X 2
 Site Hole Core 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

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
			Same as 17X-2							Same as 17X-2	
			Feldspar, greenish min. (chlorite/epidote), larger clasts of scoria, volc. rock pieces (greyish to reddish)								Volcanic clast, sandstone tabrecia, poorly sorted, grain supported

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 17X 4
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
			Same as 17X-3, large scoria clasts (coarse pebbles)			75 78 82					same as 17X-3
			Homogeneous, porphyritic texture, green porphyroblasts of 3mm			75 95 99					Large in clasts, fine-grained, basalt with mm-amphiboles (black) and olivine/pyroxene (green)
			Homogeneous, no grading			125 125					Volcanic clast. coarse sandstone, well-sorted, few large scoria clasts (3-4 cm dia); grain-supp., clasts angular

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342J 17X 5
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
4			Same as 17X-4 Thin bedding, no grading								Same as 17X-4 Interbedded volcanoclast, fine + coarse sandstone, both well-sorted, sharp contacts
26			Mostly lithic grains, much less feldspar; clasts mostly greyish-reddish, little greenish minerals								Volcanoclast, ^{fine +} coarse sandstone to breccia, mod. sorted, grain supported; patches of reddish fine sandstone
72			Mostly feldspar and greenish olivine/pyroxene in greyish- purple ground- mass								Large intraclast, grey, fine-grained, angular

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 18X Core A Section _____ Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
			<p>Mostly lithic grains (fine sand- to pebble-sized), scoria of light beige to bluish/purple colour, little feldspar crystals, little green material</p> <p>Same mineralogy, but better sorting, more feldspar</p>		slight						<p>Volcanic clast, sandstone to breccia, poorly sorted, grain-supported, angular clasts</p> <p>Volcanic clast, coarse sandstone, moderately sorted, grain-supported, angular grains</p>
		33									
		110									

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 18X 2
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
10-20			porphyric texture, greenish diorite/pyroxene, black amphibole, porphyroclasts of <i>mon</i>								Fine-grained volcanic intraclasts, grey, homogeneous, massive
20-140			Mostly lithic grains (greyish, bluish/purple); fine sand to pebbles, scoria; few fine feldspar crystals, little greenish material		<i>metre</i>						Volcanic clast. Sandstone to breccia, poorly sorted, grain-supported, angular clasts

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 18X 3
 Site Hole Core Section Top Depth

Major Lithology

	Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
10				Same as 18X-2 (hard to describe due to pieces)		Moderate					Same as 18X-2	
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 D 19X 1
 Site Hole Core Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
			<p>Mostly lithic or scoria grains (fine sand to fine pebble, some isolated coarse pebbles), fine feldspar, lots of fine greenish minerals, some fine rind pumice</p>		slight						<p>Volcaniclast, coarse sandstone to fine breccia, moderately sorted, grain-supported, not graded, massive, angular grains</p>

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 19X 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
	2.5		Mostly lithic or scoria grains.								(greenish black)
	10/80		fine sand to pebble size							Not bedded	Volcaniclastic breccia
			(fine red pumice) (feldspar)								
			①								
			Sorting: poor		Slight						
			Shape grains: Sub. round to sub-angular								
			sharp boundary								
			basalt:								
	4/N		vesicles 0.1-2mm of angular/ovoid shape	?	?	?	?				
	5/N		20% vesicles								
			gradational boundary								
	3/N		Same as ① but coarser.								
			(more pebbles)								
			5% coarse sand to pebble								

shape: round - sub-angular


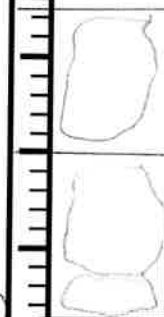




Observer: _____

Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 19X Core 3 Section Top Depth

Major Lithology

Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
		3/2	coarse sand to pebble size (5%) poor sorting + reddish grains + basalt grains altered (1) shape grains; round to sub angular		slight					Not bedded	Volcaniclastic breccia
											
		4/1	sharp boundary: 95cm basalt (smaller phenocryst as section 2)					291 mm			basalt
		2.5/1	sharp boundary ? basalt. angular shape					vesicles: 20.5 mm less than 5%		very spherical	No phenocryst visible. vesicles 60% irregular
		2.5/1	pebble size sharp boundary volcaniclastic breccia								volcaniclastic breccia same as (1)
			basalt + basalt grain.								

volcaniclastic breccia

?

Observer: _____ Date: _____

Expedition 323
 Bering Sea
 (Hard rock VCD)

1342 Site D Hole 19X Core 4 Section Top Depth

Major Lithology

	Graphic Representation	Color	Lithology Unit	Structures	Grain size	Alteration	Samples	Constituent minerals	Phenocrysts	Glass	Sedimentary structures	Visual Core description
7				? basalt same as section 3 101-111 cm -								? basalt
10				volcaniclastic breccia Same as section 3 1-55 cm and...								
20												
30												
32				? basalt. same as section 3. 101-111 cm								
38												
40				volcaniclastic breccia same as section 3. 1-55 cm								
48				? basalt same as section 3 101-111 cm								
50												
52												
60												
70												
80												
90												
100												
110												
120												
130												
140												

Observer: _____ Date: _____