


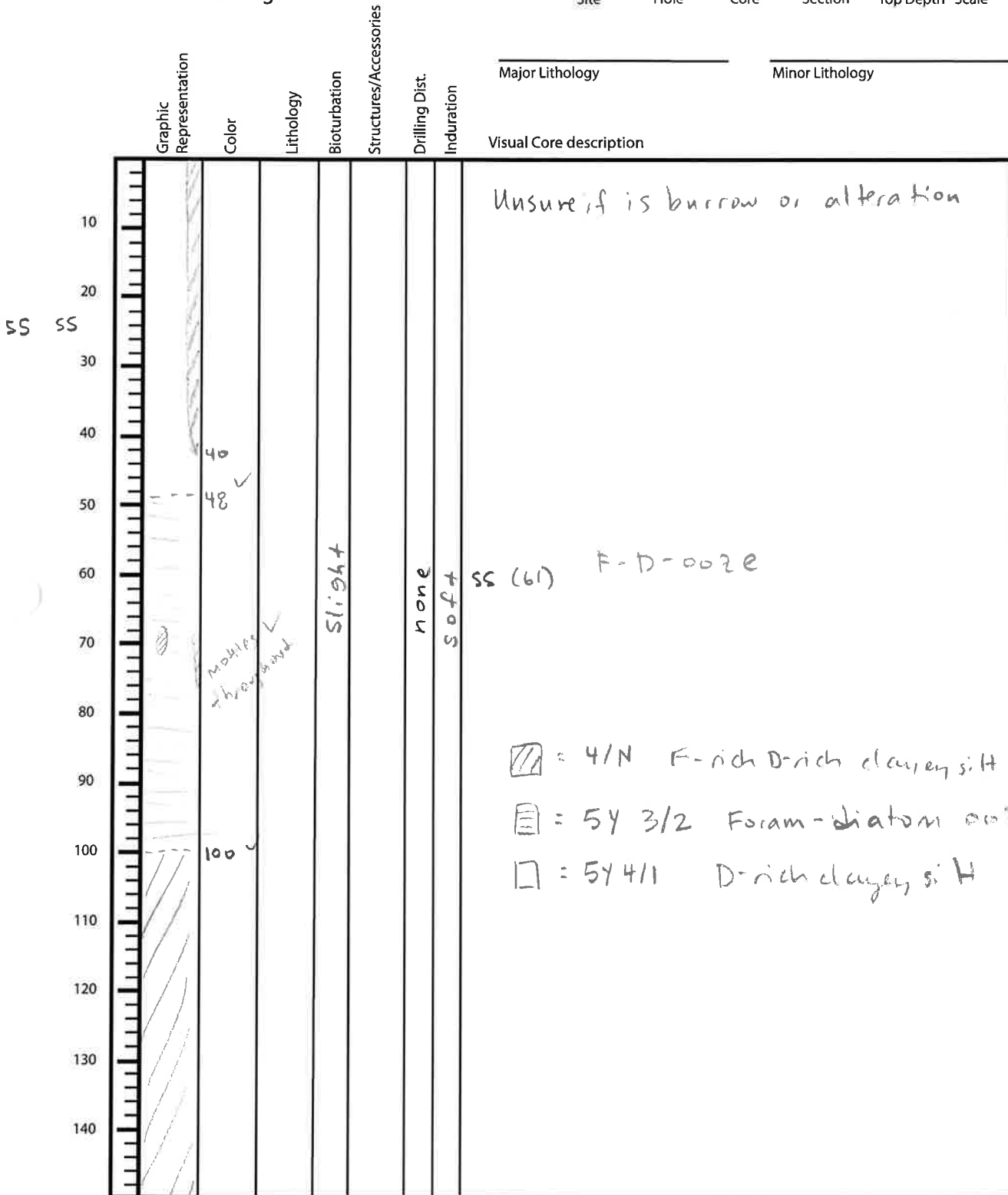
Expedition 323  
 Bering Sea

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
10	51 4/1		mottled - slight ✓				D-rich clayey silt
20	51 4/2 laminated ✓						diatom ooze
40	41			41 crack ✓			
60	58 51 4/2	58 64	mottled - slight ✓				diatom ooze
80	laminated 51 4/2	80 90	mottled - slight ✓		51 505		
100							S/N F-rich D-rich clayey silt
130	51 4/1 126						D-rich clayey silt
140	51 3/1 135						

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

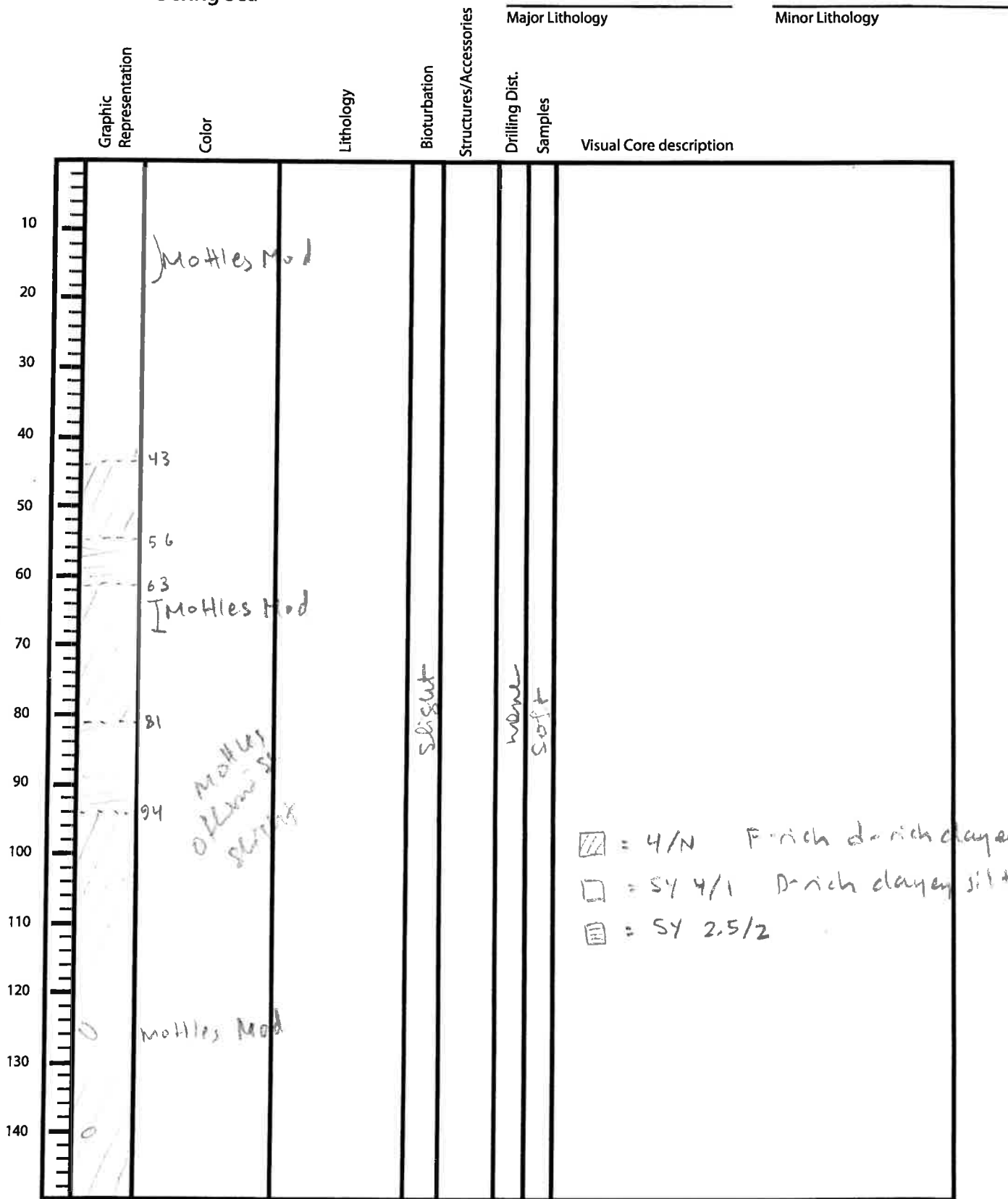
323 01342A 4H 2  
Site Hole Core Section Top Depth Scale



Observer: MSC Date: \_\_\_\_\_

323 41342 A 4H 3  
 Site Hole Core Section Top Depth

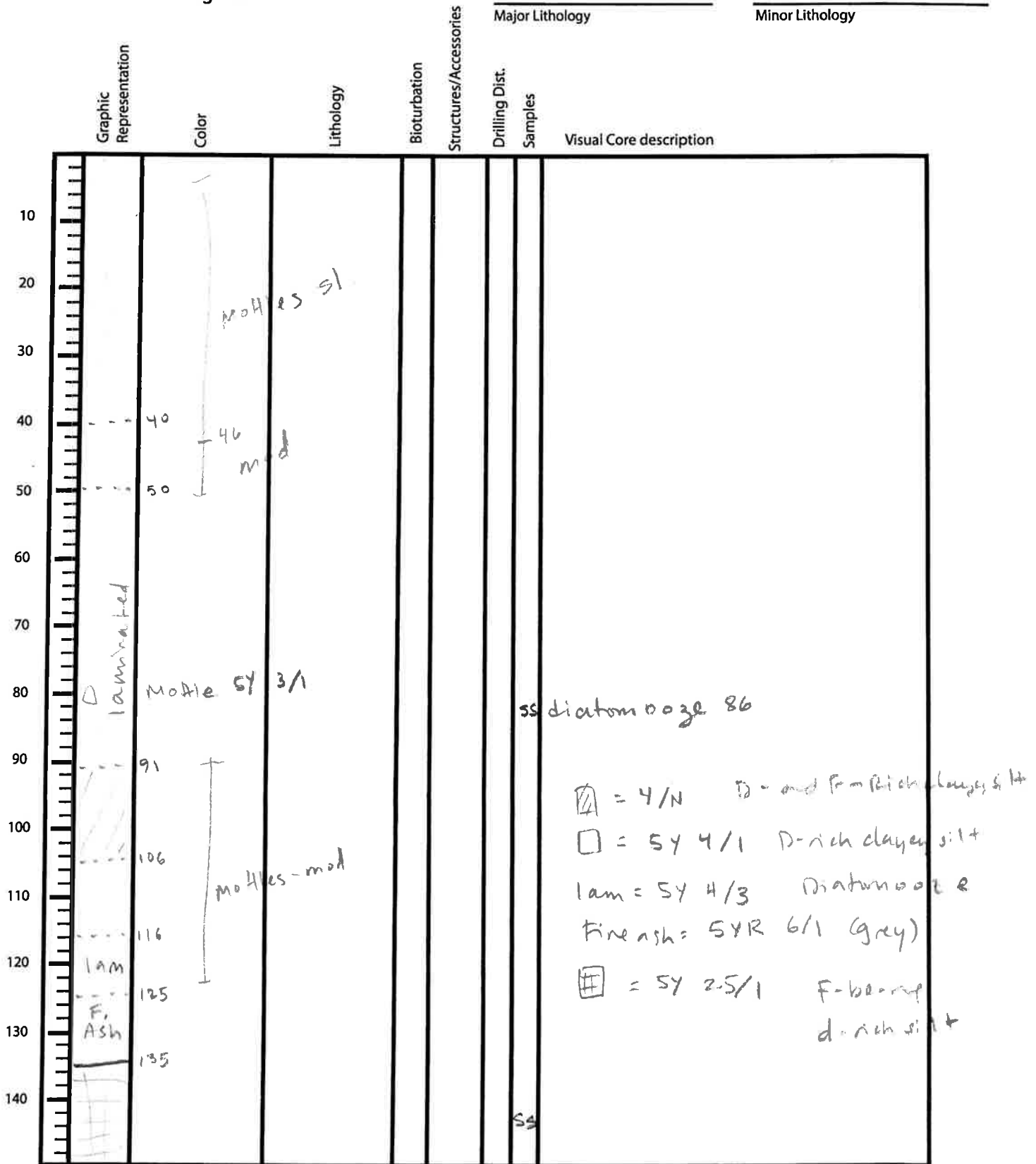
Expedition 323  
 Bering Sea



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

323 U1342A-41-4  
Site Hole Core Section Top Depth





[Symbol] = 4/N D - mod F-rich layers slt  
 [Symbol] = SY 4/1 D-rich clayey slt  
 lam = SY 4/3 Diatom ooze  
 Fine ash = SYR 6/1 (grey)  
 [Symbol] = SY 2.5/1 F-bearing d-rich slt

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
 Bering Sea

Major Lithology	Minor Lithology	Visual Core description	Drilling Dist.	Samples	Structures/Accessories	Bioturbation	Lithology	Color	Graphic Representation
									10
								4/N (grey)	10-44
						slight bioturbation		44	44-64
								54-B/1	64-69
								64	69-80
								4/N	80-100
								clast rounded pebble, 3 cm	100-109
								bioturbated laminae (moderate)	109-121
								4/N	121-130
						slight bioturbation		130	130-140
								54-B/2	140


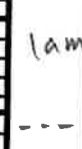






 = D-rich F-rich clayey silt  
 = D-rich clayey silt

Expedition 323  
 Bering Sea

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
	54 4/2					lam = diatom ooze
	56					= D-rich F-rich clayey silt
	4/N grey					
	95					
	40% green 54 3/1 60% grey 4/N					
	Ash mottle 123					
	IW					

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
 Bering Sea

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology	Visual Core description
	6								
	lam 5Y 4/2 21								lam = diatom ooze □ = O-rich clayey sil
	40% lam 5Y 3/2 60% dk grey 5Y 3/1								
	Bottom								
									
	top								
	dk grey 5Y 3/1								
									

7

CC

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	4	H	4	145	145

Sediment/Rock Name	Foram-bearing diatom-rich silt	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
20	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
15	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
5	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
20	Centric
10	Pennate
	Chaetoceros Resting Spores
1	Silicoflagellates
1	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others



IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	4	H	2	61	61

Sediment/Rock Name	Foram and diatom ooze	Observer	Kelsic
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Percent Texture		
Sand	Silt	Clay

Comments: Minor lithology - lighter green + sandier

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
10	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
1	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
30	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
30	Centric
5	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
1	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	4	H	2	22	22

Sediment/Rock Name	Foram-rich diatom-rich clayey silt	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
10	70	20

Comments: Main lithology - lighter grey

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
Framework minerals	
10	Quartz
16	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
20	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
1	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
15	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
15	Centric
5	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
1	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	4	H	4	86	86

Sediment/Rock Name	Diatom ooze	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay

Comments: Light - coloured lamina

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
5	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
1	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
1	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
60	Centric
25	Pennate
	Chaetoceros Resting Spores
2	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

JM

Expedition 323  
Bering Sea

323 U1342A-SH-1  
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology
							Visual Core description	
	543/1 grey		plith					
	46 mottled above olive			46				
	clast						65-angular, 1cm	
	544/2		laminated				laminated (foraminifera) diatom ooze	
							SS	

Observer: M. Work Date: 4 Aug 09

Expedition 323  
Bering Sea

323-U1342A-5H  
Site Hole Core

2  
Section Top Depth

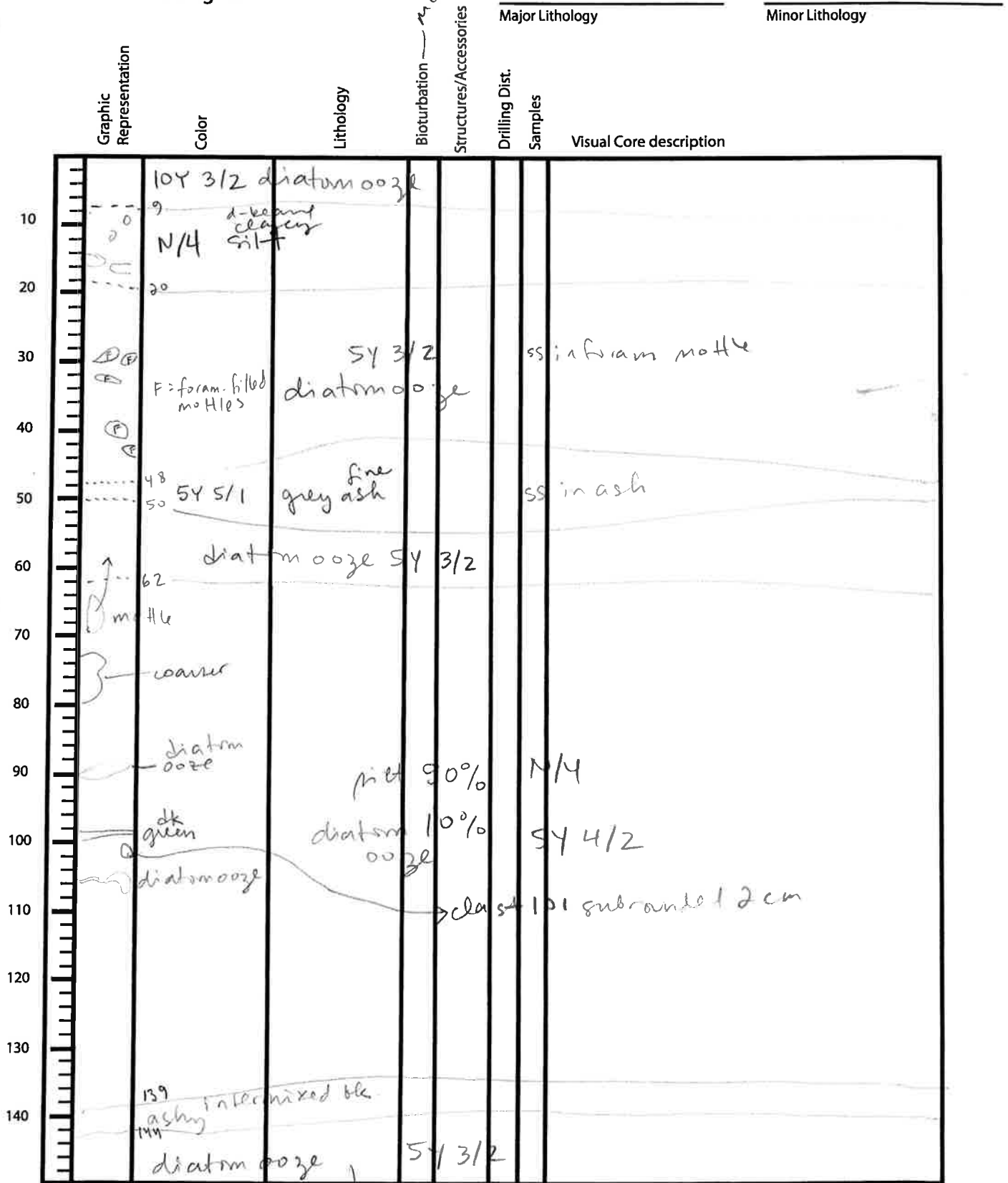
Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology	Visual Core description
	54 1/2	laminated diatom ooze					
	44						
	↓ transition						
	63						
		silt					
		clast, 0.8 mm granule, rounded					
	31N		plight		SS 100		diatom-bearing clayey silt
	131 10Y 3/2 laminated	diatom ooze					
	139 10Y 4/1		absent				diatom-bearing clayey silt

Observer: M. Coyle

Date: 4 Aug 09

Expedition 323  
Bering Sea

323-U1342A-5H-3  
Site Hole Core Section Top Depth

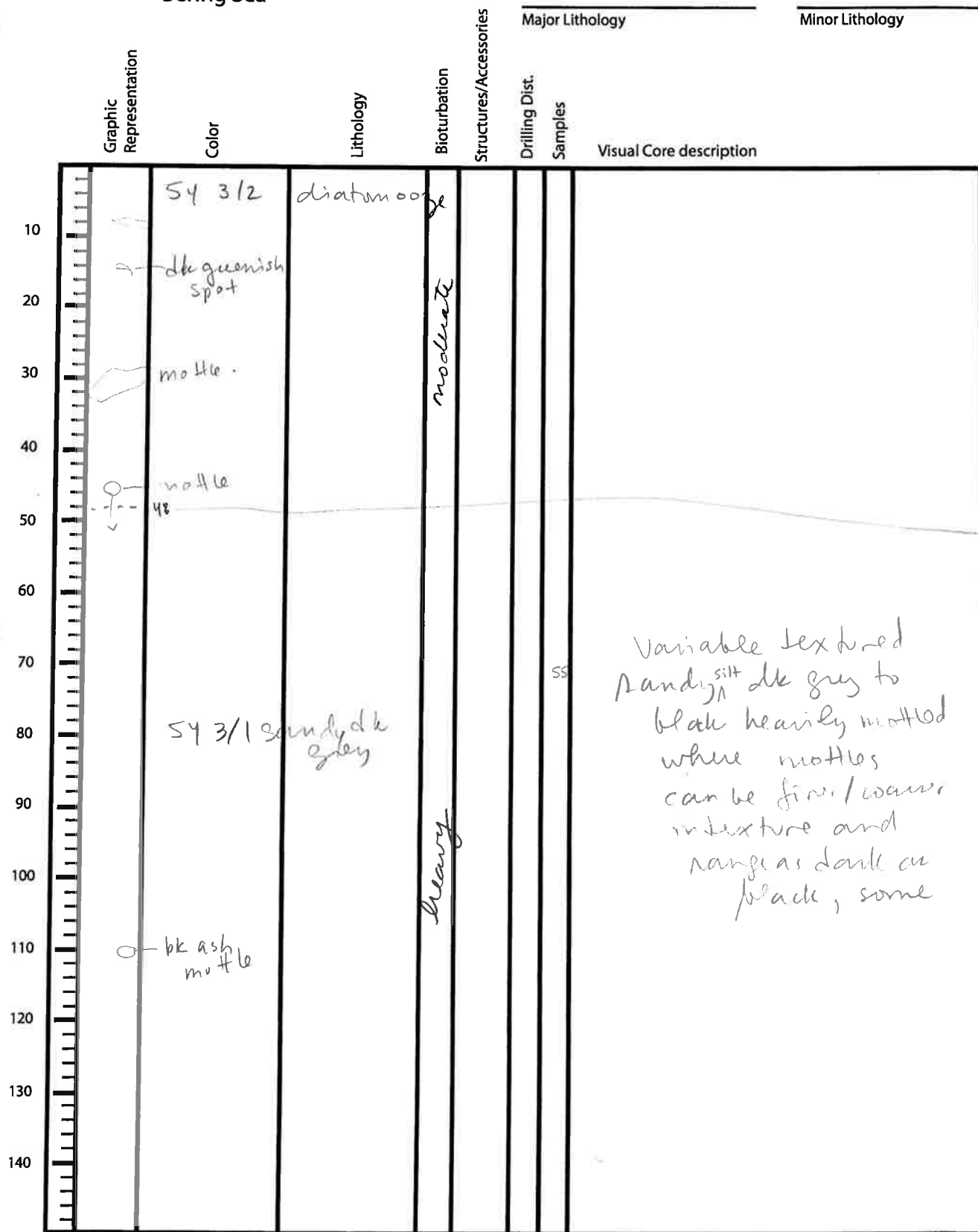


Observer: McCall

Date: 4 Aug 89

Expedition 323  
Bering Sea

323-U1342A-5H-4  
Site Hole Core Section Top Depth

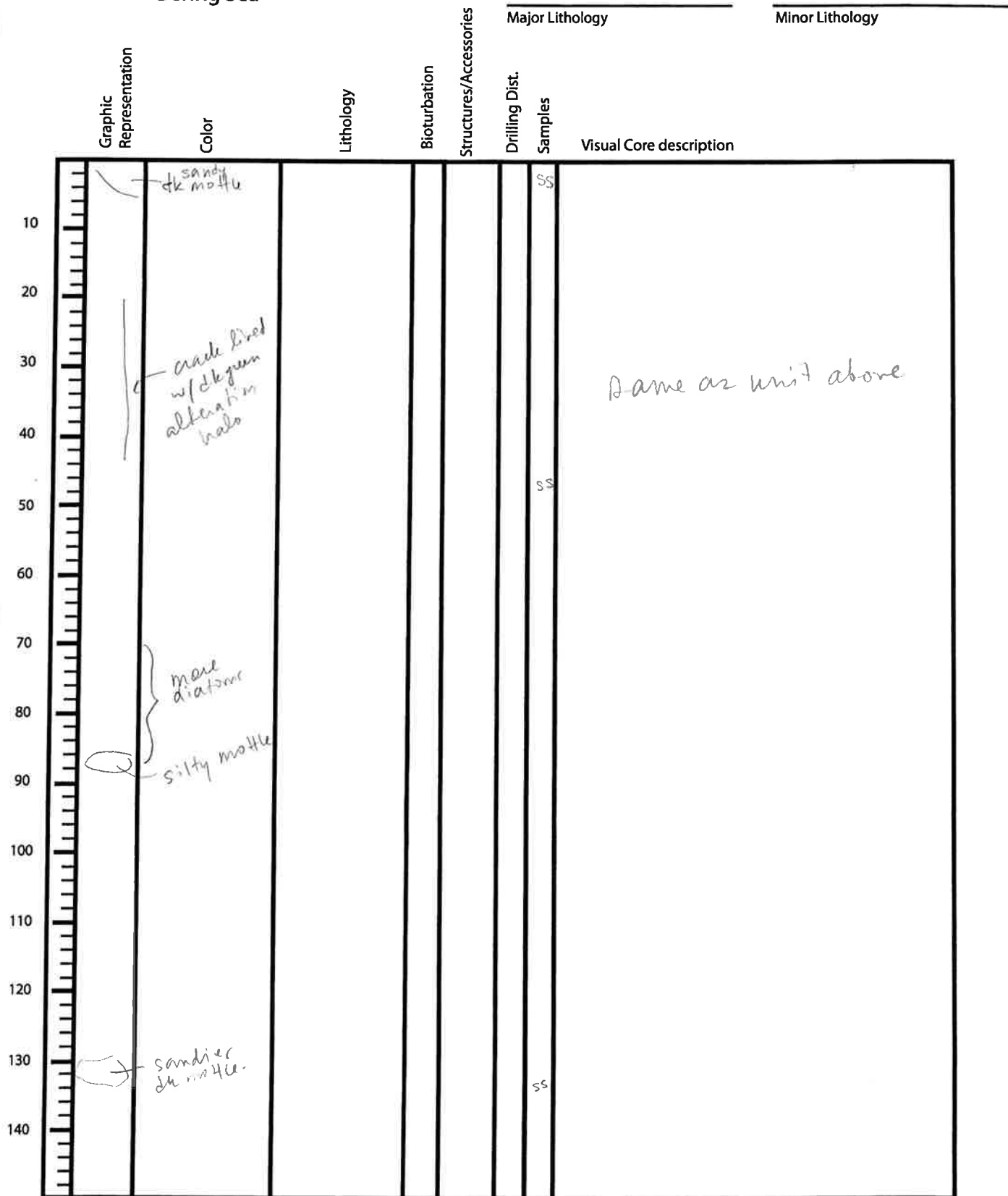


Observer: McCall

Date: 21 Aug 09

Expedition 323  
Bering Sea

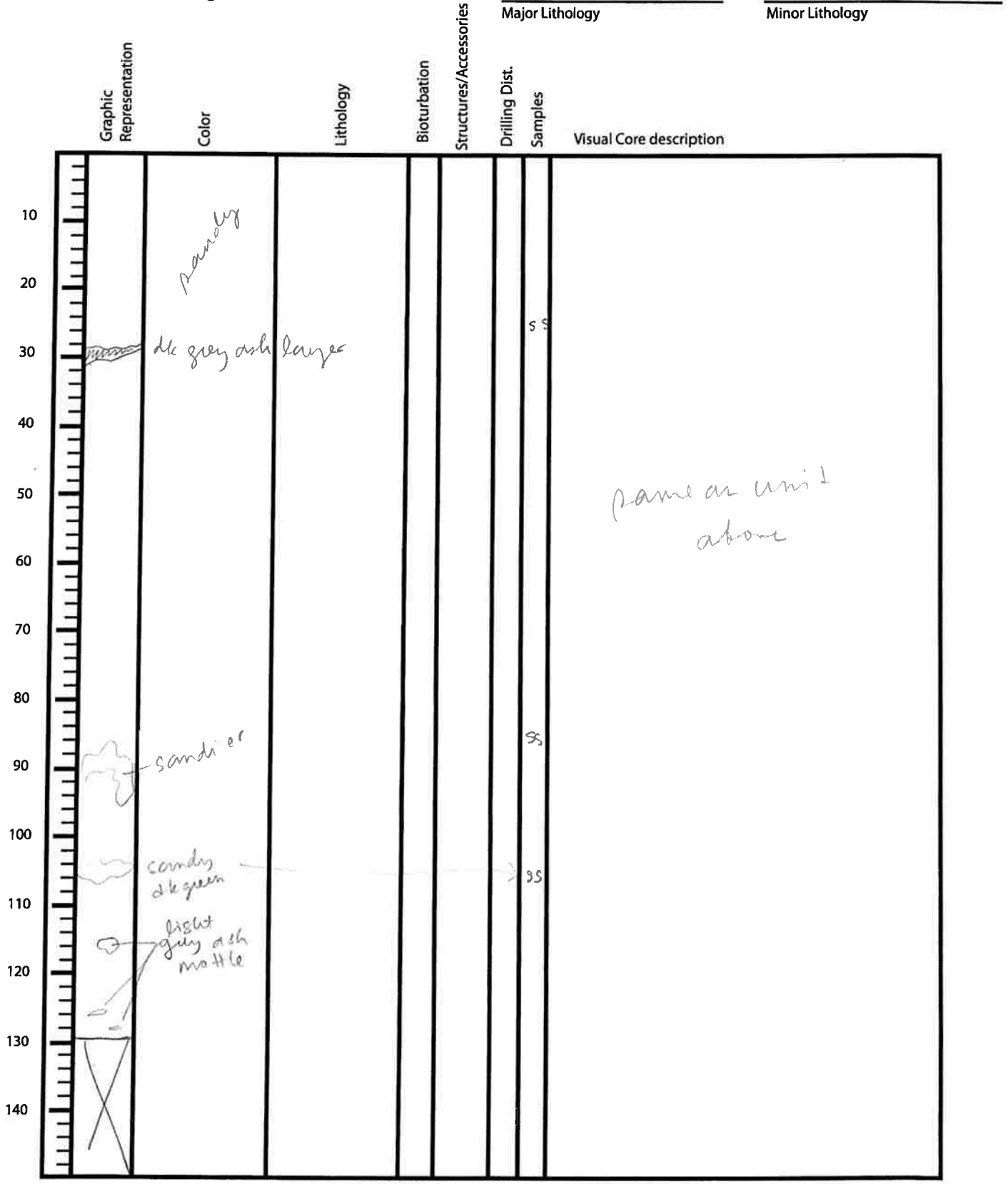
323-41242A-SH-5  
 Site Hole Core Section Top Depth



Observer: M Coole Date: 4 Aug 07



Expedition 323  
 Bering Sea



Observer: McCall Date: 4 Aug 09

Expedition 323  
 Bering Sea

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	<p>filled contacts</p>	<p>fresh accessory</p>			<p>SS</p>	<p>same as unit above</p>	

Observer: McCole Date: 4 Aug 09

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	5H	H	4	70	170

Sediment/Rock Name	Diatom-rich (Sandy Silty)	Observer	
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Percent Texture		
Sand	Silt	Clay
60	30	10

Comments: Main Litho Dark Gray  
20

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 83.85%	
Framework minerals	
55	Quartz 57
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
25	Rock fragments 5
Accessory/trace minerals	
10	Micas 2
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
10	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 15.20%	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
15	3 Centric
5	1 Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
		A	5H		5	48	

Sediment/Rock Name	Diatom-bearing silty sand	Observer	
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Percent Texture		
Sand	Silt	Clay
70	25	5

15      1      1

Comments:

Dark Gray Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 94%</b>	
	Framework minerals
10%	Quartz
5%	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
7%	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
4%	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 6%</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
6%	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	5H		5	2	2

SM

Sediment/Rock Name	Diatom bearing Sandy silt	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
35	60	5

Comments: Ashy very Dark Gray. → sandy very dark Gray Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 88</b>	
Framework minerals	
45%	Quartz 15
15%	Feldspar 5 K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9%	Rock fragments 3
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
16.5%	Ferromagnesium minerals 5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
3%	Fe-oxide 1
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 12%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
9%	3 Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
3.7%	1 Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	7342	A	511		5	130	

Sediment/Rock Name	Diatom-bearing Sandy Silt	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
45	45	10

57  
Sand < Silt

Comments:

Very Dark Gray Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 89%</b>	
Framework minerals	
37%	Quartz 5 7
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
21%	Rock fragments 4
Accessory/trace minerals	
11%	Micas 2
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
16%	Ferromagnesium minerals 3
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5%	Pyrite 1
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 11%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
11%	2 Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
1347		A	5H		6	24	

Sediment/Rock Name	Diatom-rich Silty Sand	Observer	
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Percent Texture		
Sand	Silt	Clay
50	35	15

Comments:

Dark olive sandy Litho.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 97%</b>	
Framework minerals	
32%	Quartz 3
11%	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
11%	Rock fragments 1
Accessory/trace minerals	
	Micas
11%	Biotite 1
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite 6-7
	Chert
	Zircon
21%	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 3%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
11%	Diatoms 1
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
5%	Sponge spicules 0.5
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	B32	A	54		6	95	

Sediment/Rock Name	Diatom-bearing silty Sand	Observer	Hio. A
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Percent Texture		
Sand	Silt	Clay
60	35	5

Comments:

Sandy Gray Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 88%</b>	
Framework minerals	
17	Quartz 1
15	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
15	Rock fragments 1
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
30	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
15	Vitric grain 1
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 12%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
4	Centric 0.25
4	Pennate 0.25
	Chaetoceros Resting Spores
	Silicoflagellates
4	Sponge spicules 0.25
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others



IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	514		7	40	

Sediment/Rock Name	Diatom-bearing silty sand	Observer	Hino A
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Percent Texture		
Sand	Silt	Clay
60	30	10

Comments: Lith. Sandy Dark Gray

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 93</b>	
	Framework minerals
<del>27</del>	Quartz 2
27	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
13	Rock fragments 1
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
27	Ferromagnesium minerals 2
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 7</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
7	Diatoms 1
	Centric 1.5
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	5H		2	100	100

SMA  
SM

Sediment/Rock Name	Diatom bearing clayey silt	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
10	70	10

Comments: 10% 1/2 Litho

81

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
83%	Quartz 15
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
3%	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
17% 16%	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	54		3	49	

Sediment/Rock Name	Diatom-bearing fine ash	Observer	M.W.A
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Percent Texture		
Sand	Silt	Clay

Comments: pinky ash Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
5	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
90 to	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
5	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

SM  
SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	5H		1	140	

Sediment/Rock Name	Diatom ooze	Observer	
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Percent Texture		
Sand	Silt	Clay

Comments: Diatom ooze Litho

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
	<b>BIOGENIC GRAINS</b> 100
	Calcareous
	Foraminifera
5	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
80	Centric
15	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
			514		3	31	31

~~SM~~  
SM

Sediment/Rock Name	Foraminifera Ooze	Observer	Hio A
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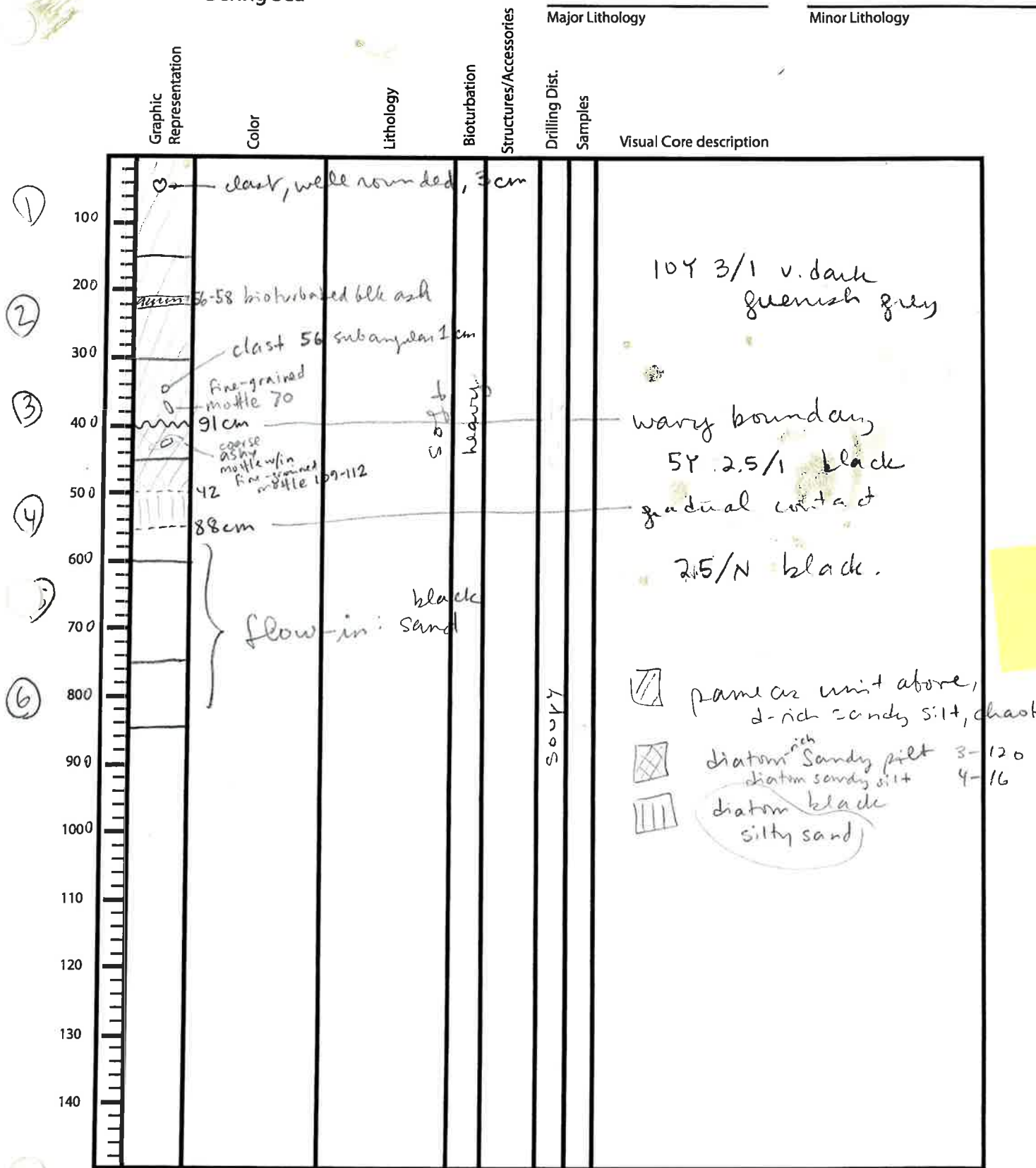
Percent Texture		
Sand	Silt	Clay

Comments: Green (Olive)

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
2%	Quartz 1
2%	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
2%	Micas 1
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2%	Pyrite 1
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
67%	30 Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
7%	3 Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
11%	3 Centric
11%	5 Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323  
 Bering Sea



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
			6H		4	16	16

Sediment/Rock Name	Diatom <del>Silty Sand</del> Sandy silt	Observer	H. W. A
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Percent Texture		
Sand	Silt	Clay
35	50	15

Comments:

Silty  
Siliciclastic & Biogenic

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 50%</b>	
	Framework minerals
23%	Quartz 5
9%	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9% <del>8%</del>	Rock fragments 2 → 2
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
9%	Ferromagnesium minerals 2
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 50%</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
45%	Diatoms 10
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
5	Sponge spicules /
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	6H		3	120	120

Sediment/Rock Name	Diatom rich Sandy silt	Observer	Hiro A
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Percent Texture		
Sand	Silt	Clay
30	50	20

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals <i>20%</i>
20 10	Quartz
40 70	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
20 10	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 20%</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
<del>30</del> 10	Diatoms
10	Centric
10	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others



IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	6H		6	60	60

Sediment/Rock Name	Sand.	Observer	H. W. A.
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Percent Texture		
Sand	Silt	Clay
100	0	0

Comments: Flow-in

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 100</b>	
	Framework minerals
30.25	Quartz
35.30	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
30	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
5	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
<1	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

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IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	A	6# 5H	H1	6A	105	

SM

Sediment/Rock Name	Silty Sand	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
60	30	10
5	?	

Comments:

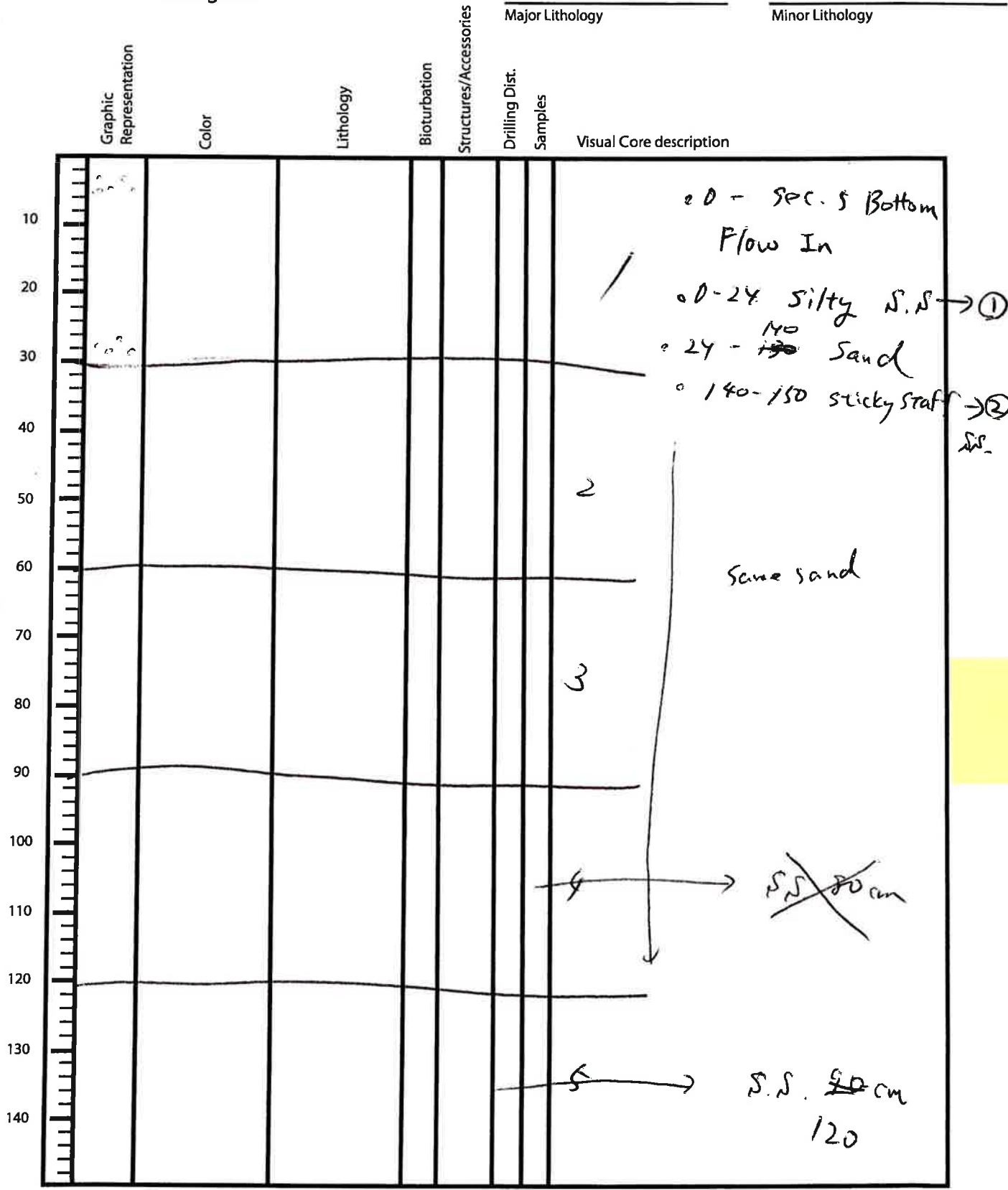
Dark Greenish. Part

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 96</b>	
Framework minerals	
4	Quartz 1
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
71	Rock fragments 3 20 19
Accessory/trace minerals	
	Micas
10#	Biotite 3
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
11	Ferromagnesium minerals 3
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 40%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
4#	1 Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323  
Bering Sea

1342 ~~OH~~ 74 A 1-5  
 Site Hole Core Section Top Depth



Observer: Hiv. A. Date: \_\_\_\_\_

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	7H		5A	145	145

SM

Sediment/Rock Name	Sponge - Spicule bearing Sandy Silt	Observer	
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Percent Texture		
Sand	Silt	Clay
30	60	10

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 95%</b>	
Framework minerals	
13%	Quartz 20
26%	Feldspar 10
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
13%	Rock fragments 5
Accessory/trace minerals	
	Micas
3%	Biotite 1
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 5%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
5%	2 Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	A	74		7	120	120

Sediment/Rock Name	<del>Sand</del> <del>Carbonate</del>	Observer	
--------------------	--------------------------------------	----------	--

Sp. Spicule bearing sand

Percent Texture		
Sand	Silt	Clay
90	10	

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 95%</b>	
	Framework minerals
35	Quartz
30	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
30	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 5%</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
5	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323  
Bering Sea

1342 A 9X 1 0  
Site Hole Core Section Top Depth Scale

Basaltic Andesite

Major Lithology

Minor Lithology

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Visual Core description
							<p>Porphyritic and vesicular basaltic andesite (?) with a very fine-grained to aphanitic &amp; dark grey groundmass. Phenocrysts are mostly plagioclase laths up to 6mm (~20%) and mafic minerals (pyroxene) to 2mm (2%). Most phenocrysts are in glomeroporphyritic aggregates. Groundmass has v. fine-gr plagioclase.</p> <p>Vesicles are ovoid to irregular in shape. Up to 15mm but av. of 2-3mm. They have a coating of a pale blue-grey mineral.</p> <p>Last piece (43-50cm) has a fine-gr vein approx 4-10mm in width (variable along its length). Minerals are &lt; 1mm and even-gr. Slightly lighter in colour than surrounding rock.</p>

3/N

Observer: Kelsie Date: \_\_\_\_\_