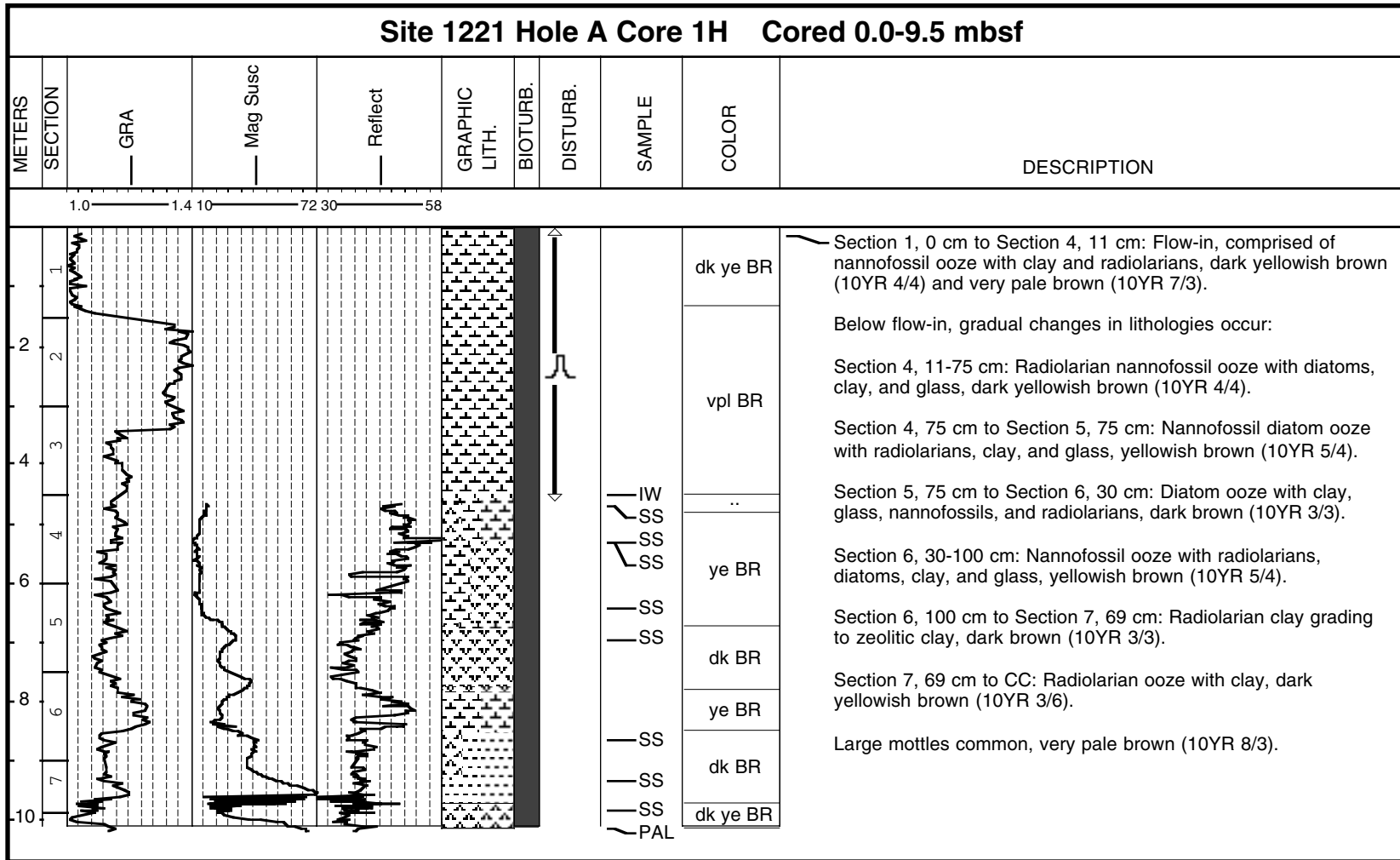
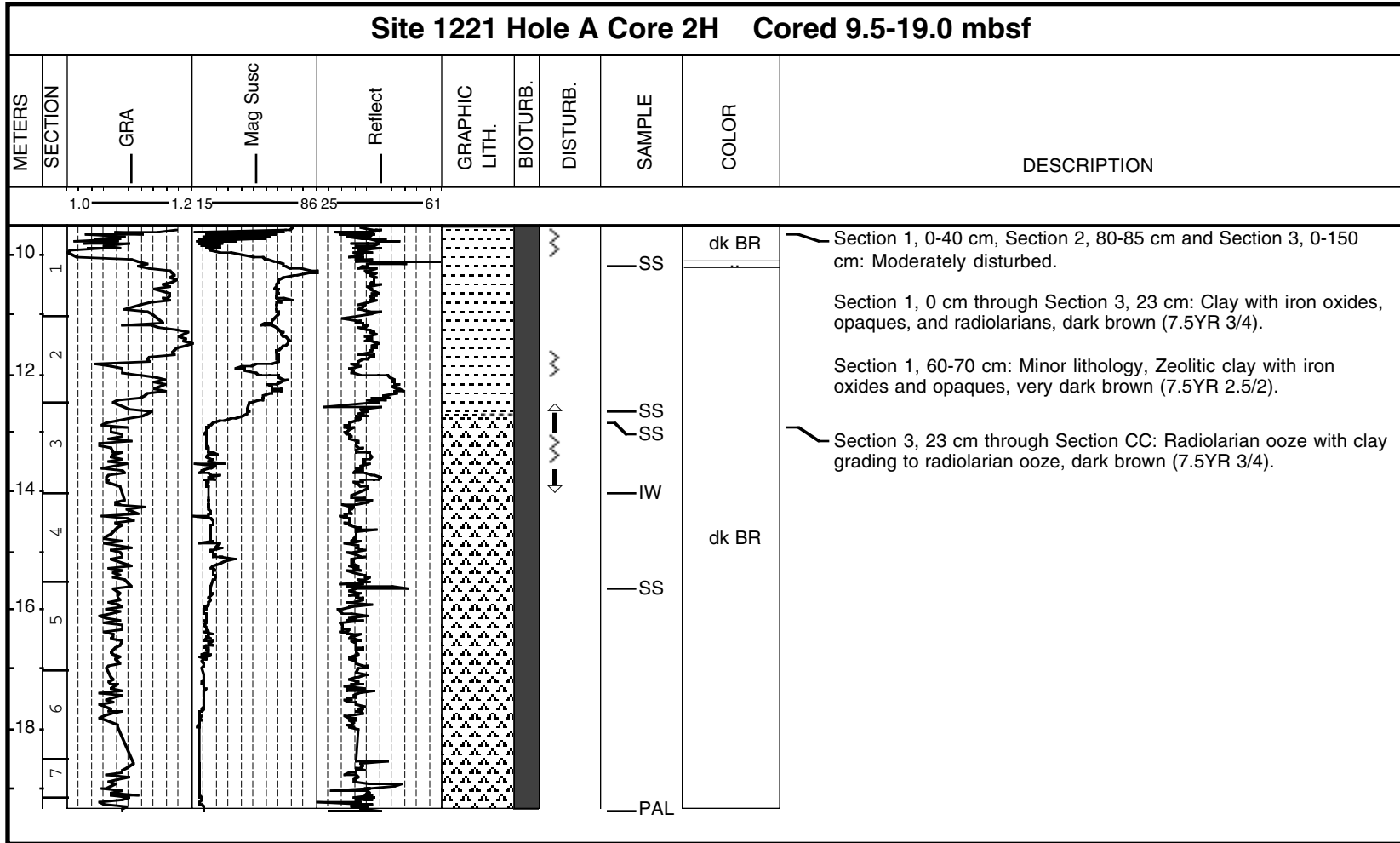


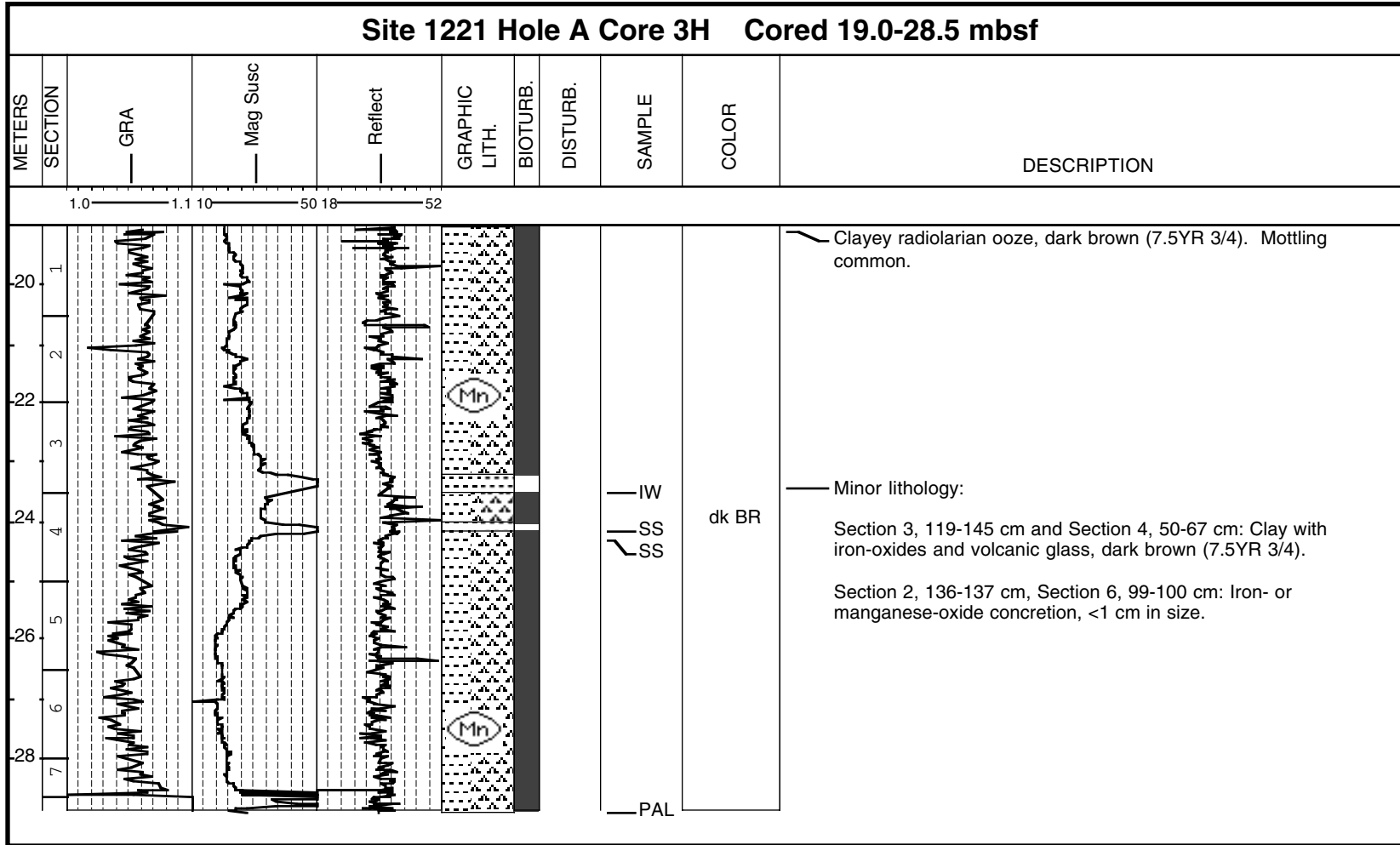
# Core Photo



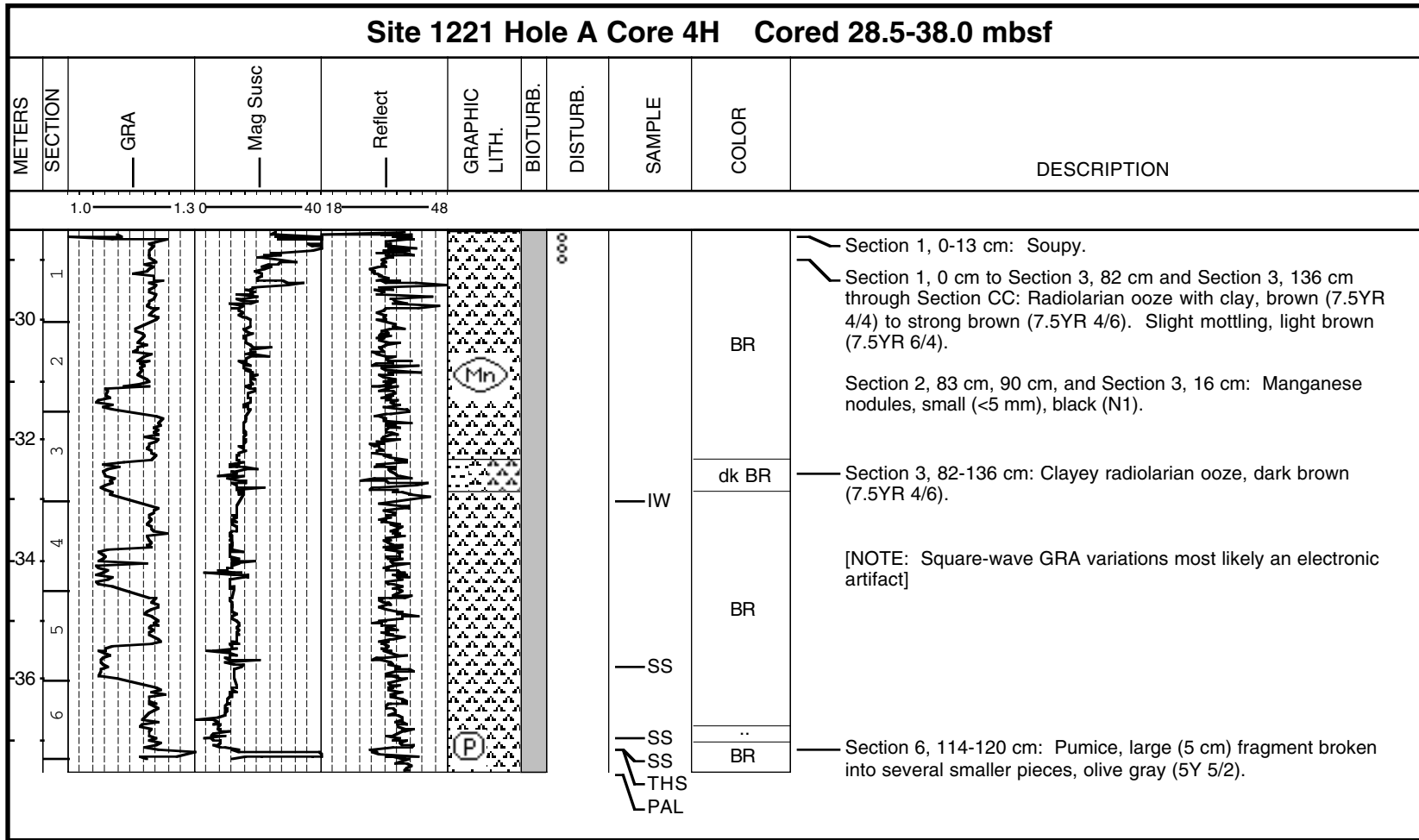
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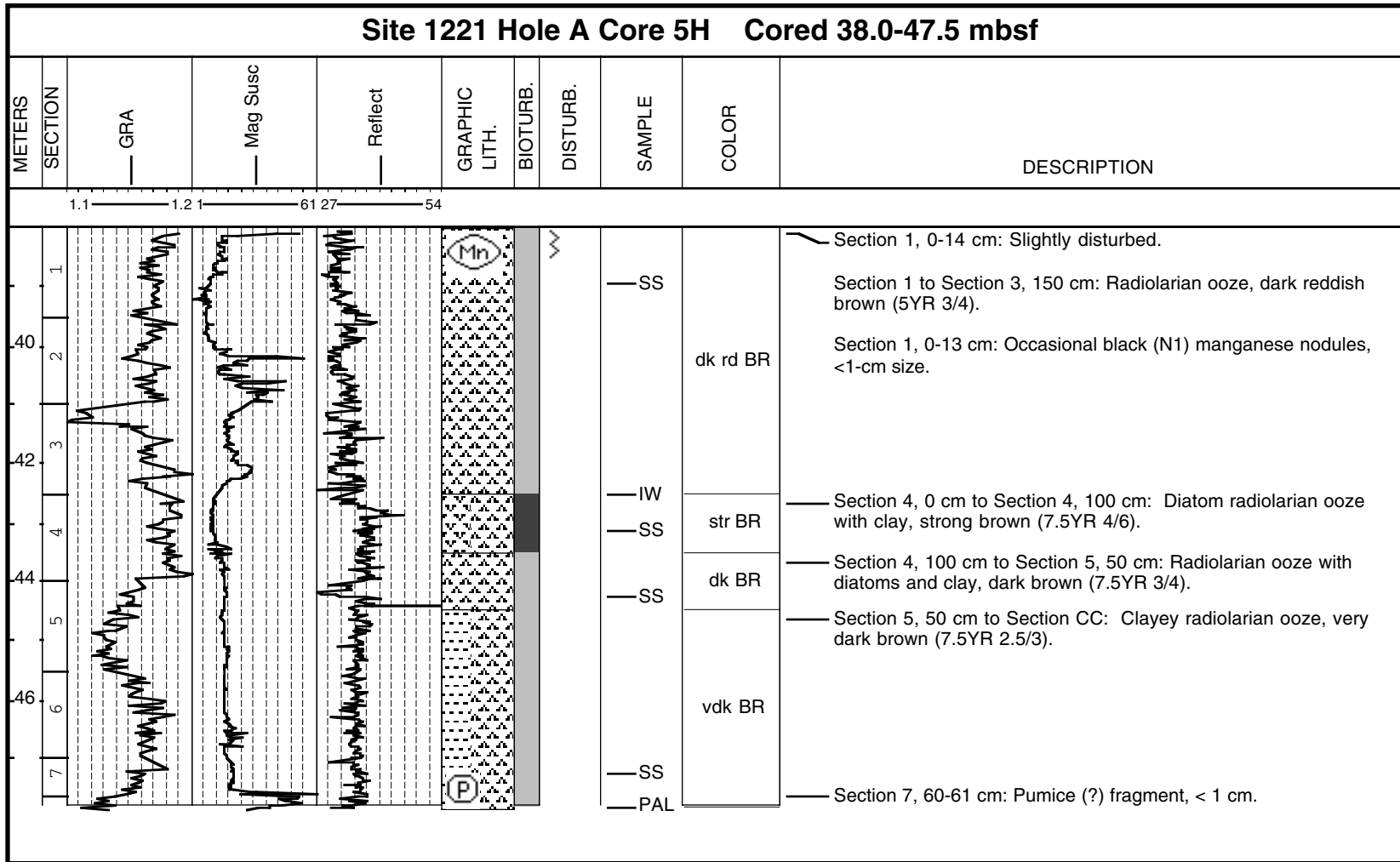
# Core Photo



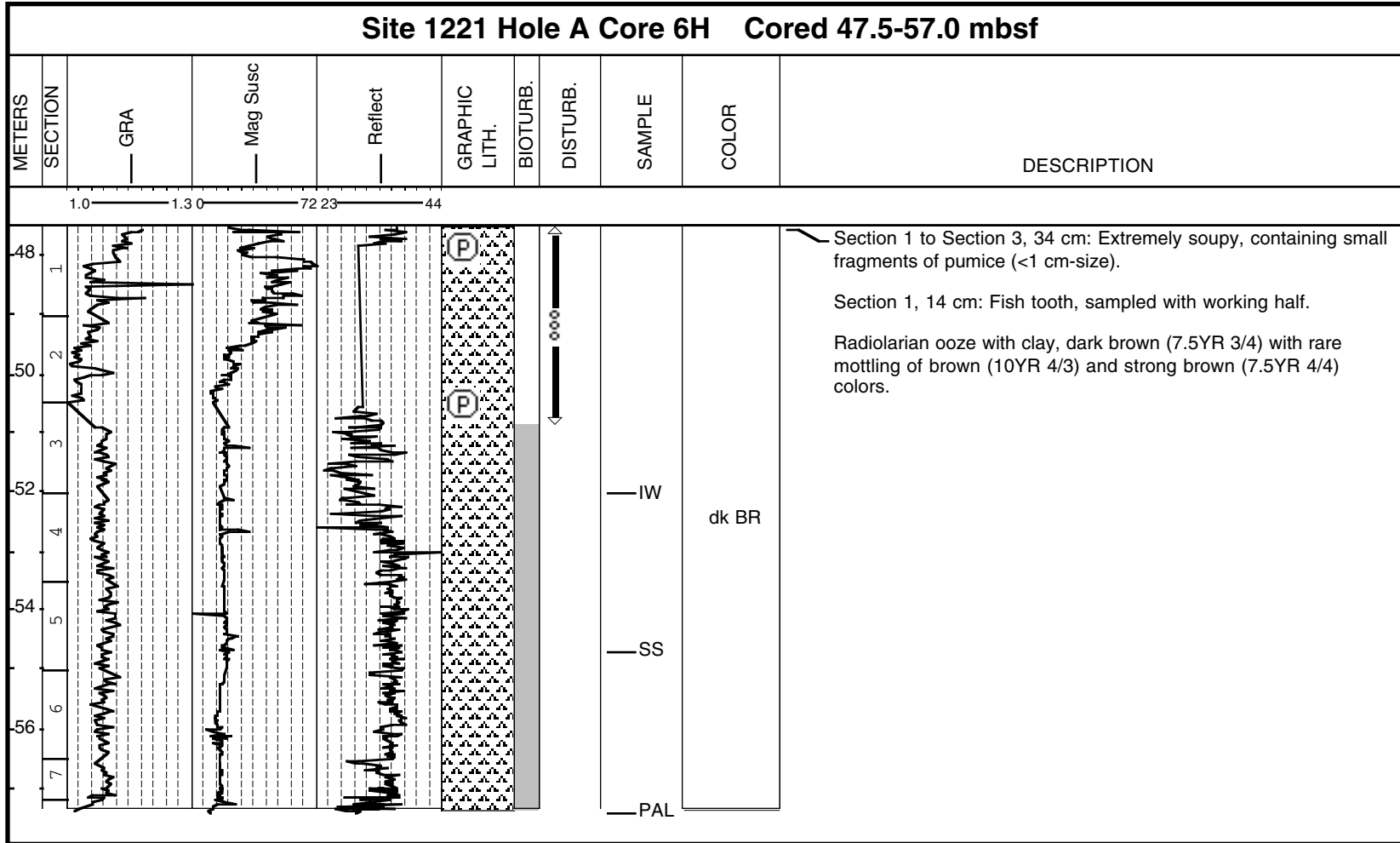
# Core Photo



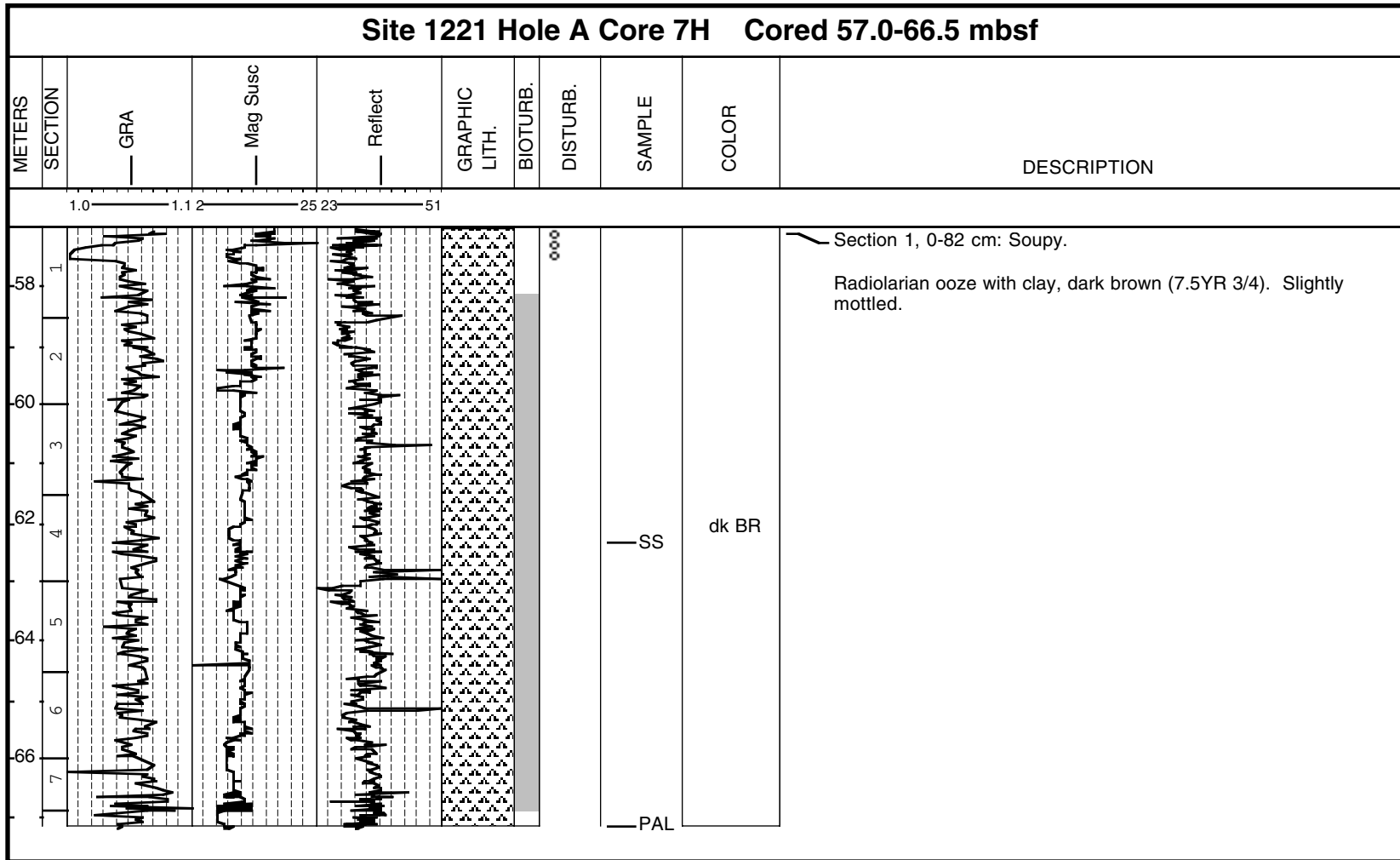
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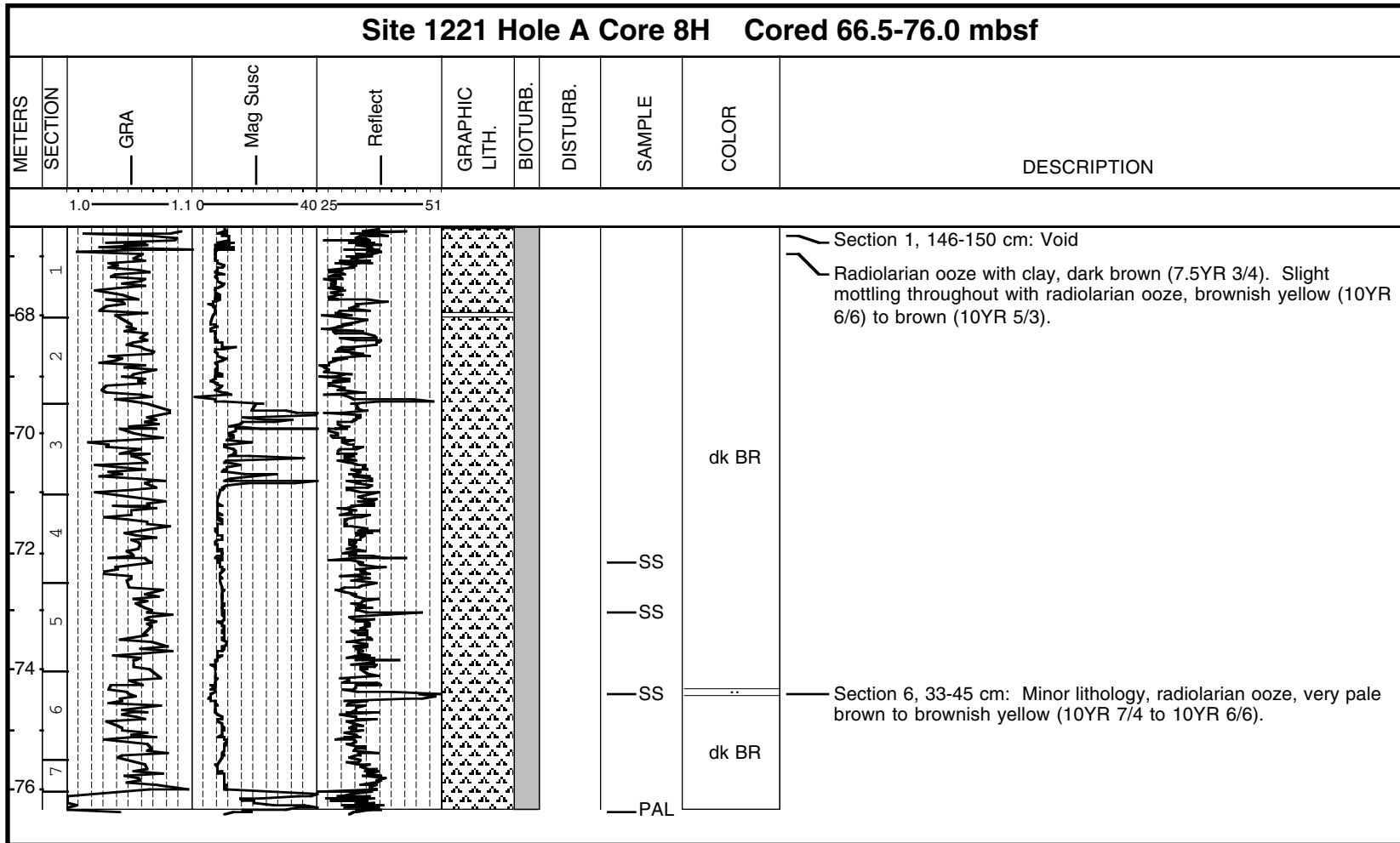
# Core Photo



# Core Photo

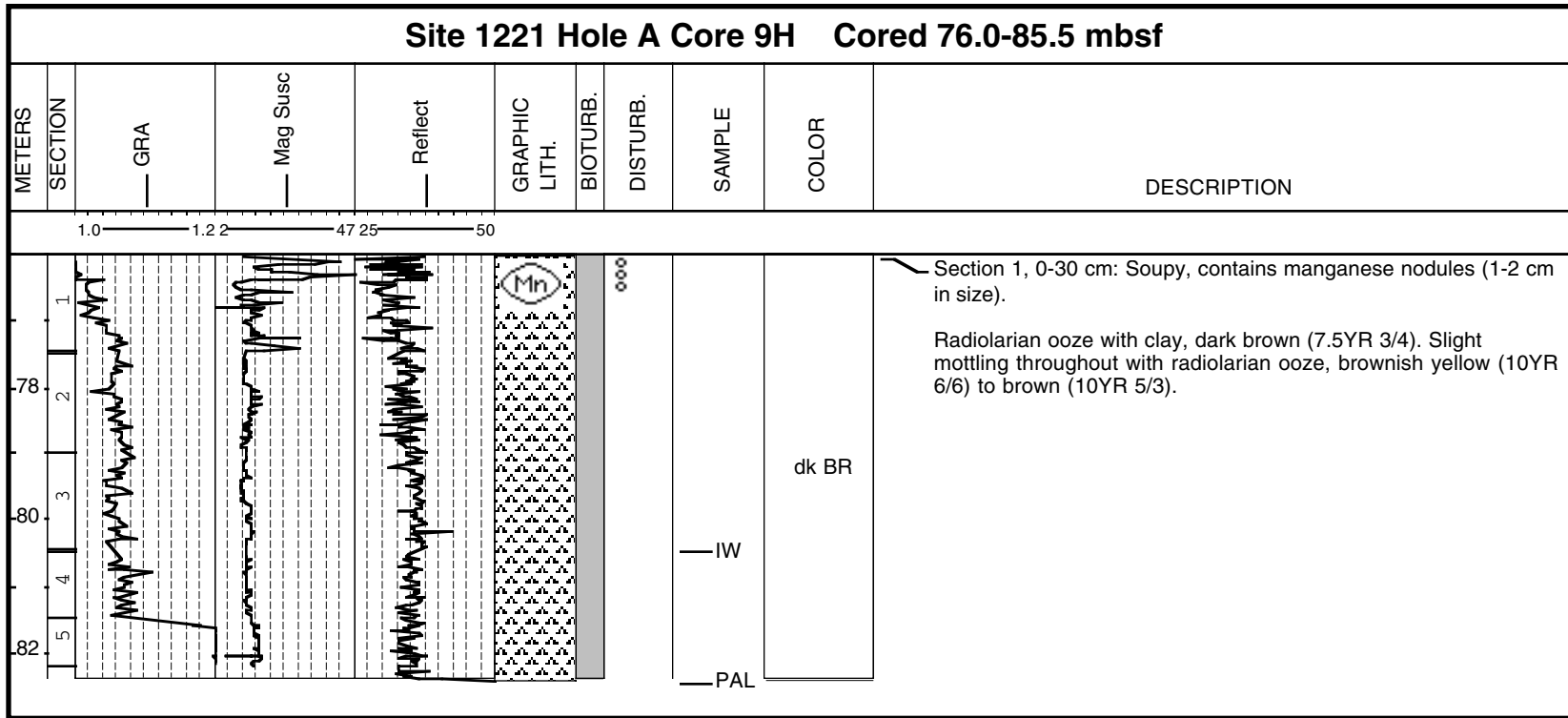


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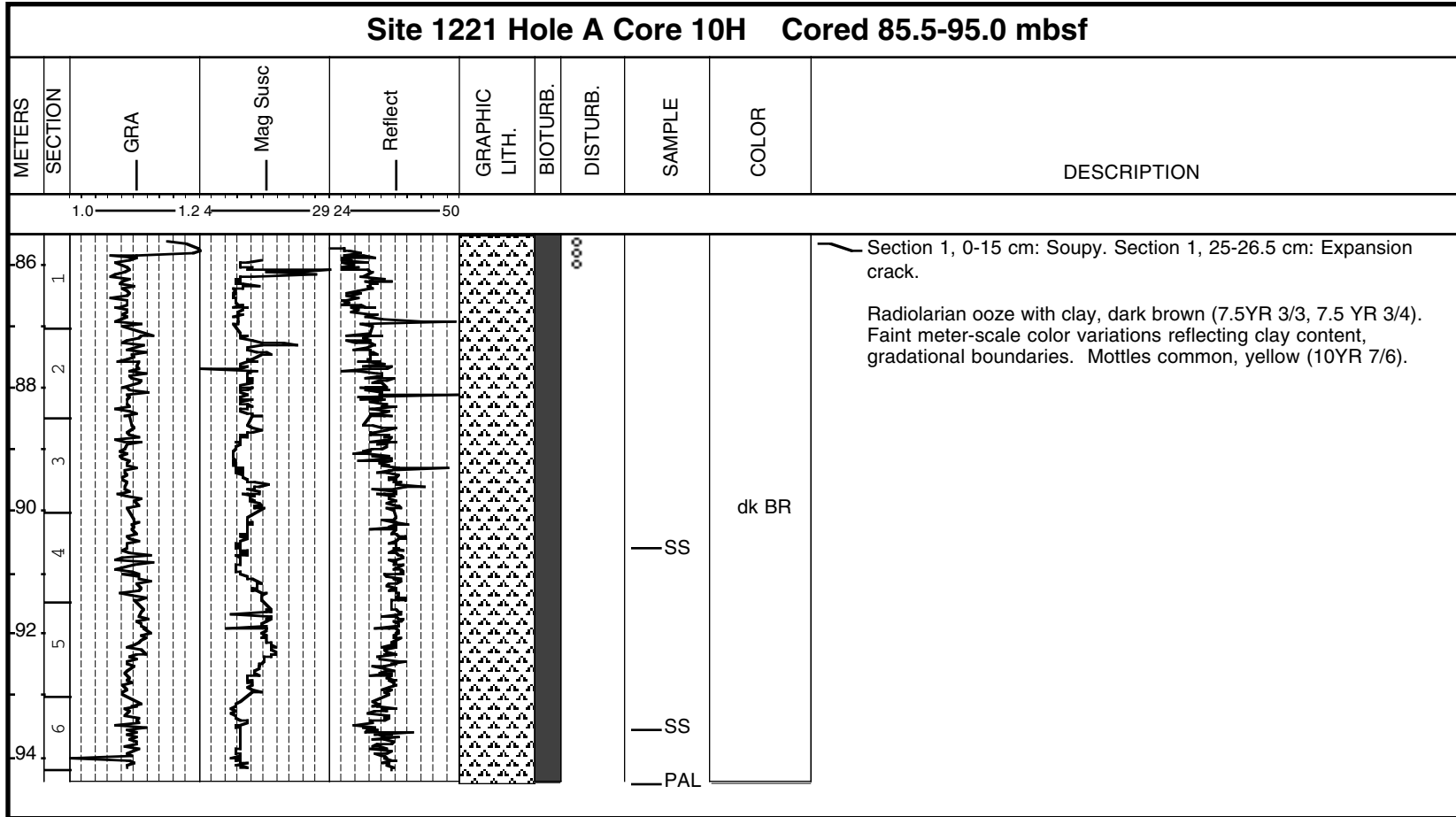




## Core Photo

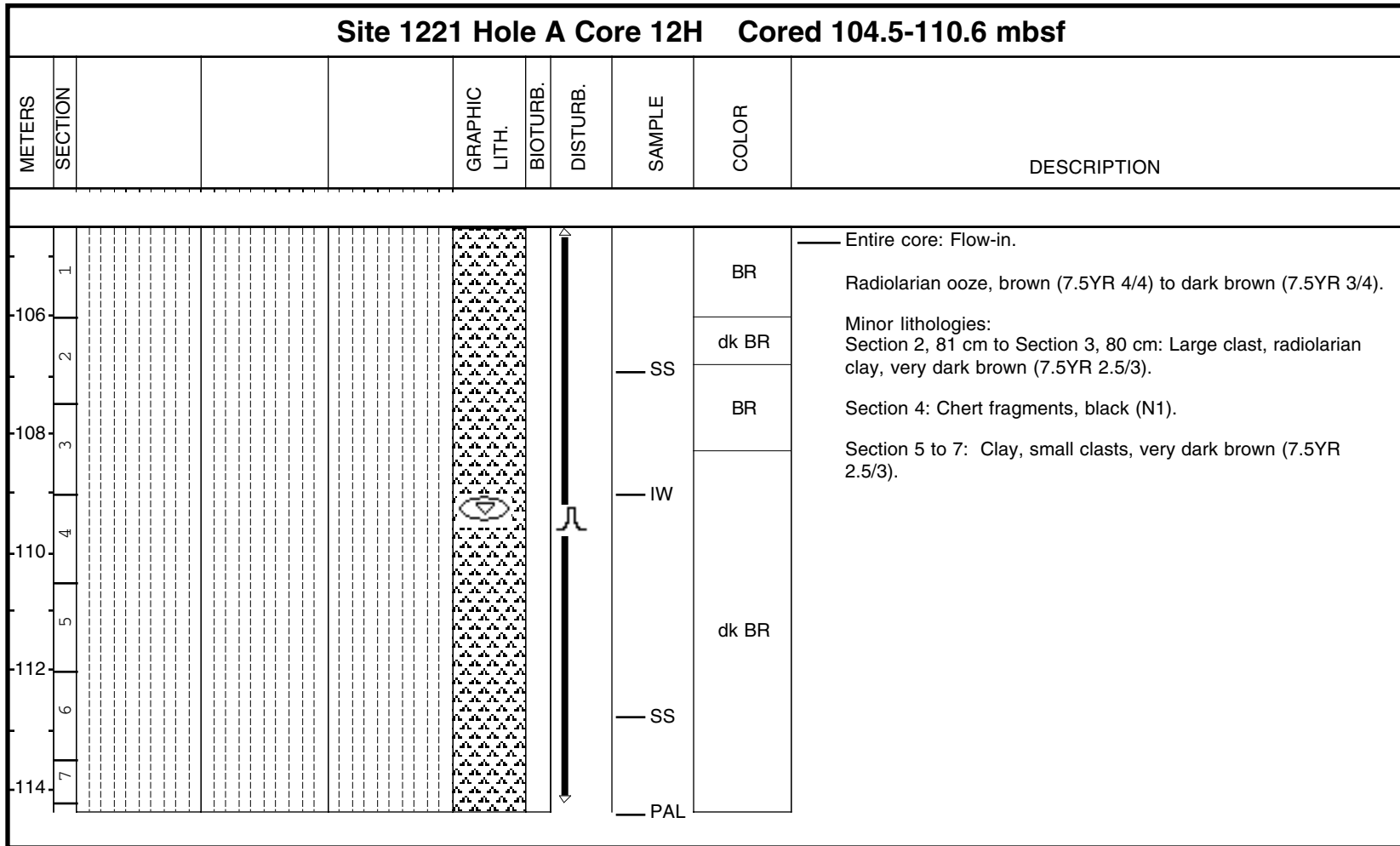


# Core Photo





# Core Photo

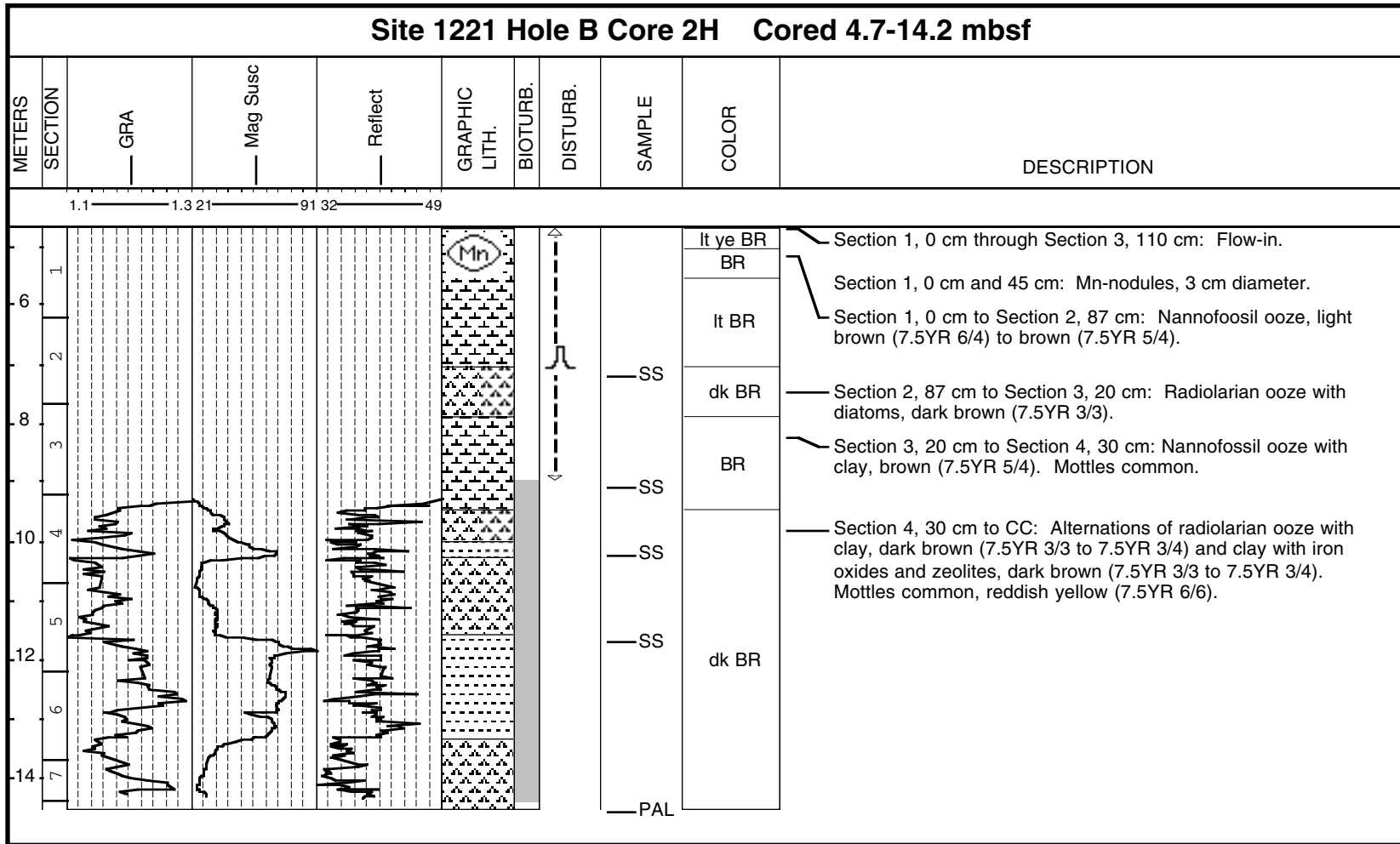


## Core Photo

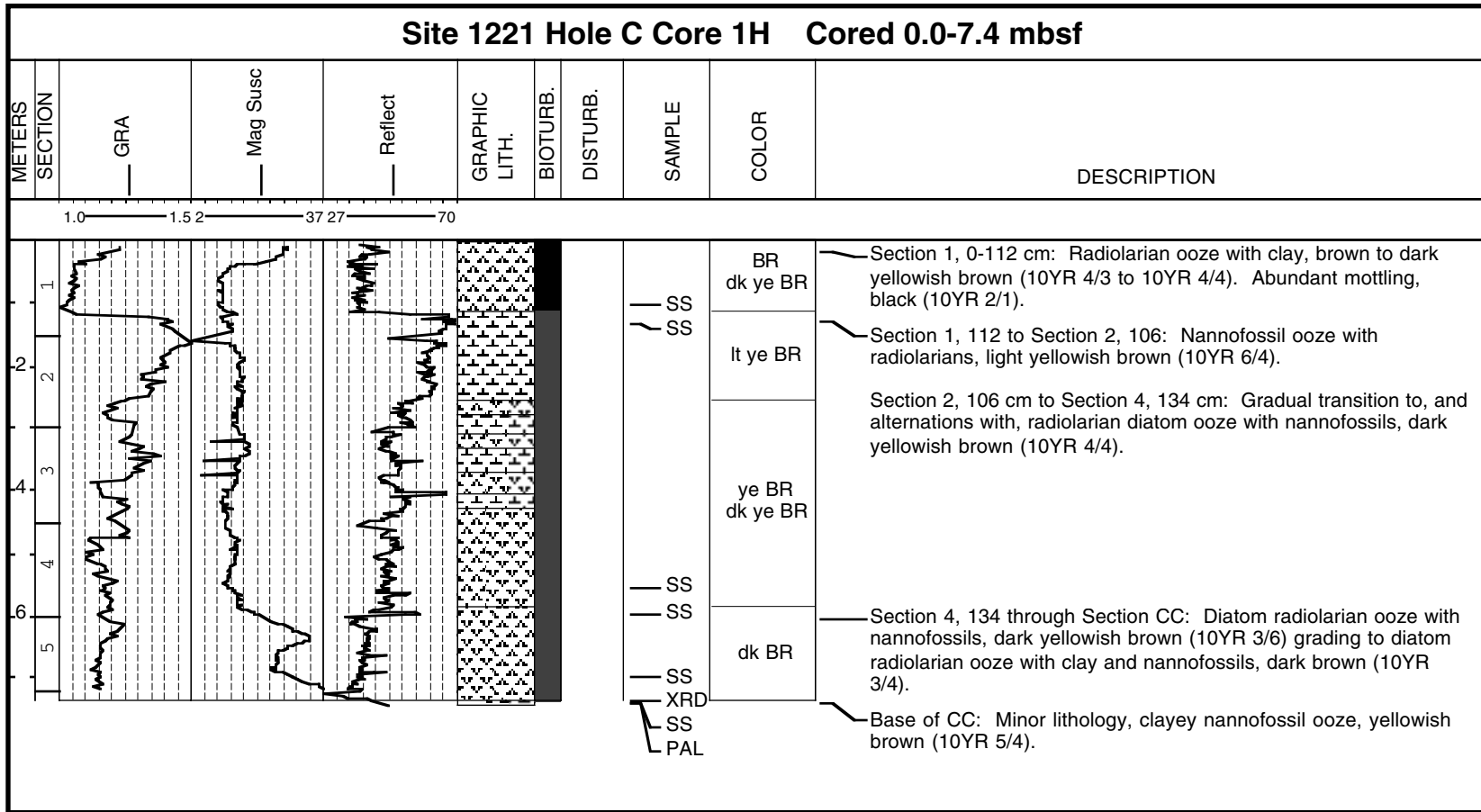
Site 1221 Hole A Core 13X Cored 110.6-115.6 mbsf										
METERS	SECTION	GRA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.4										
1.8										
0.0										
3.0										
60										
85										
										Chert, black (N1), broken by drilling process, 0.5 cm to 5 cm size.



# Core Photo



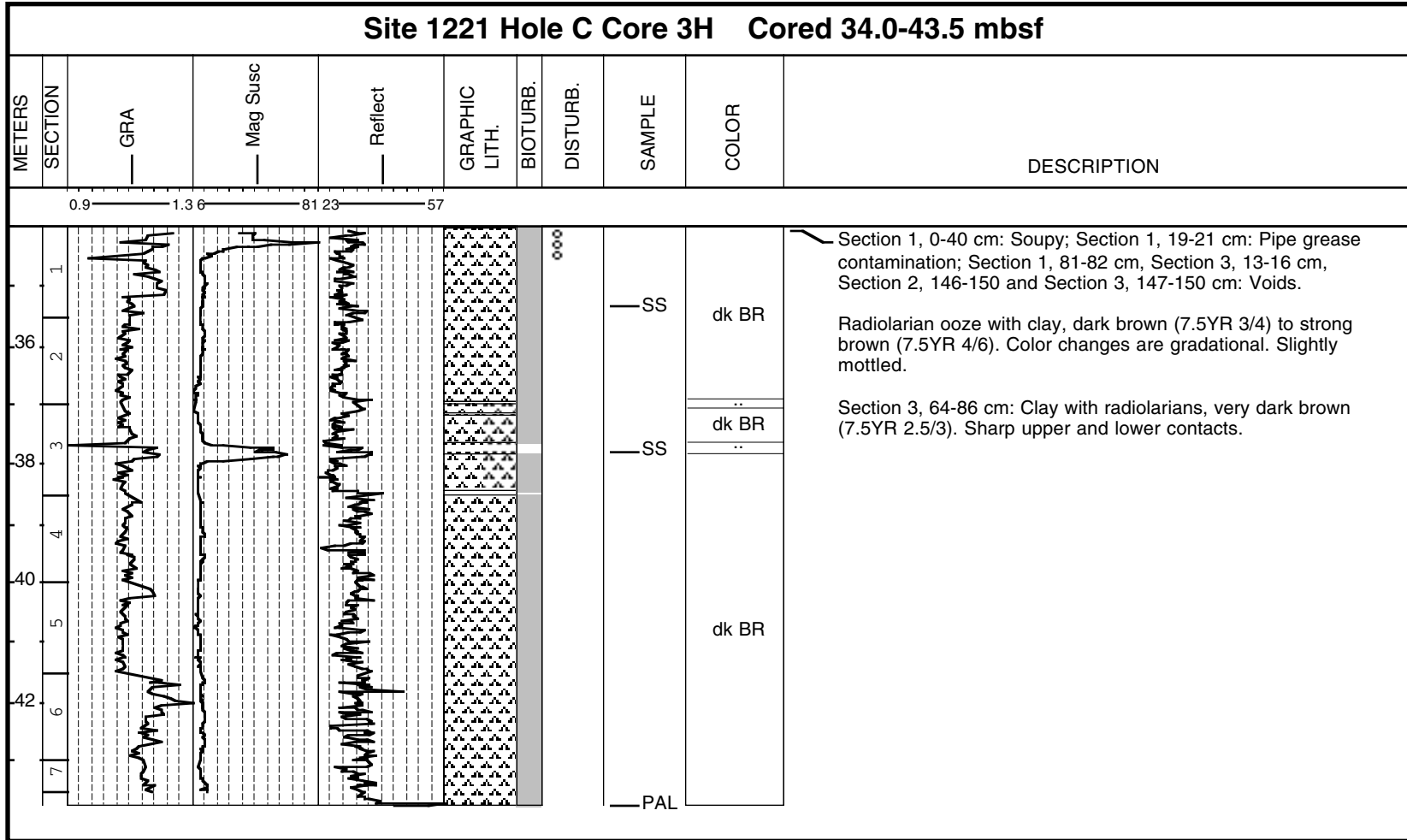
# Core Photo



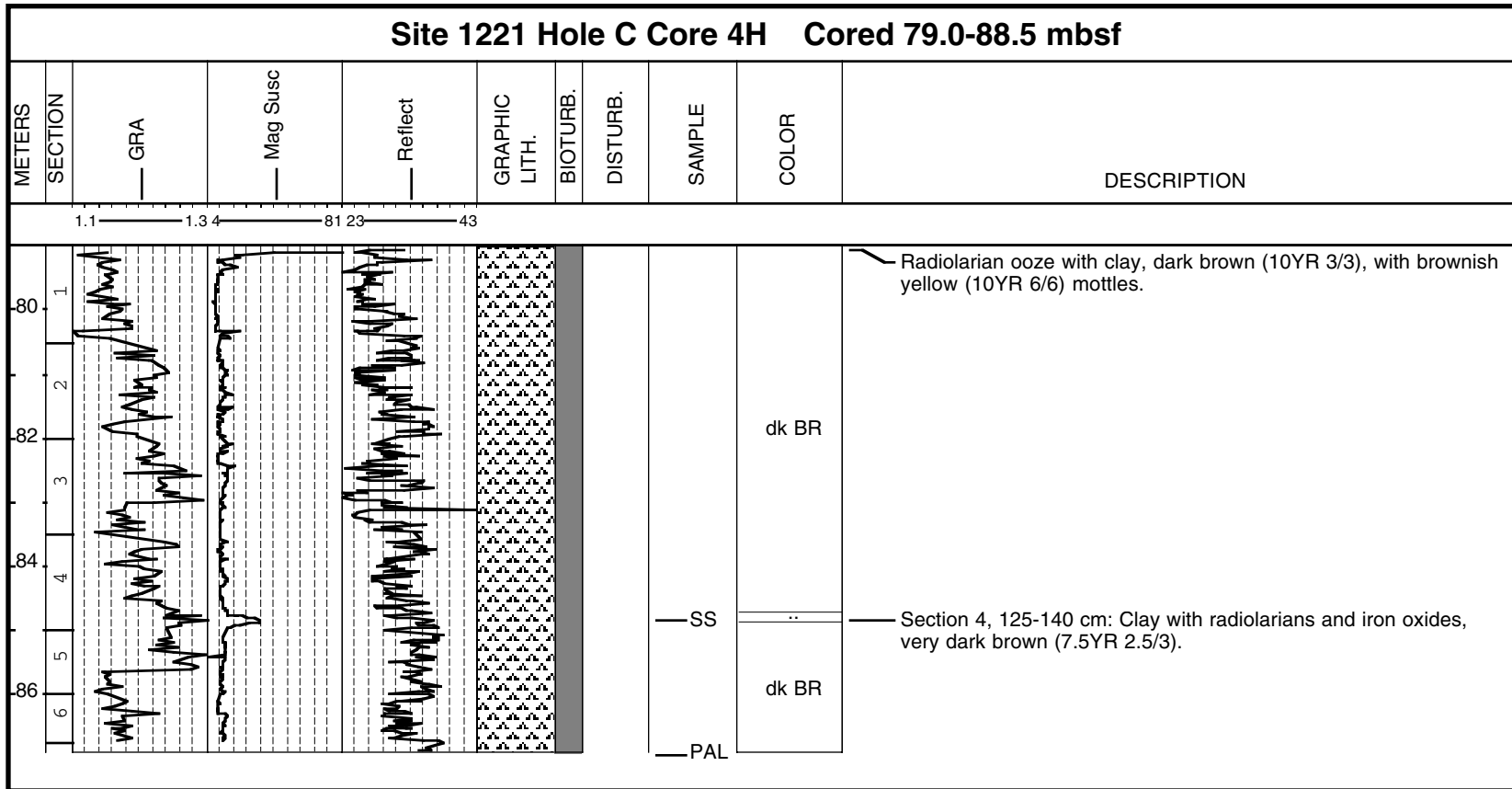




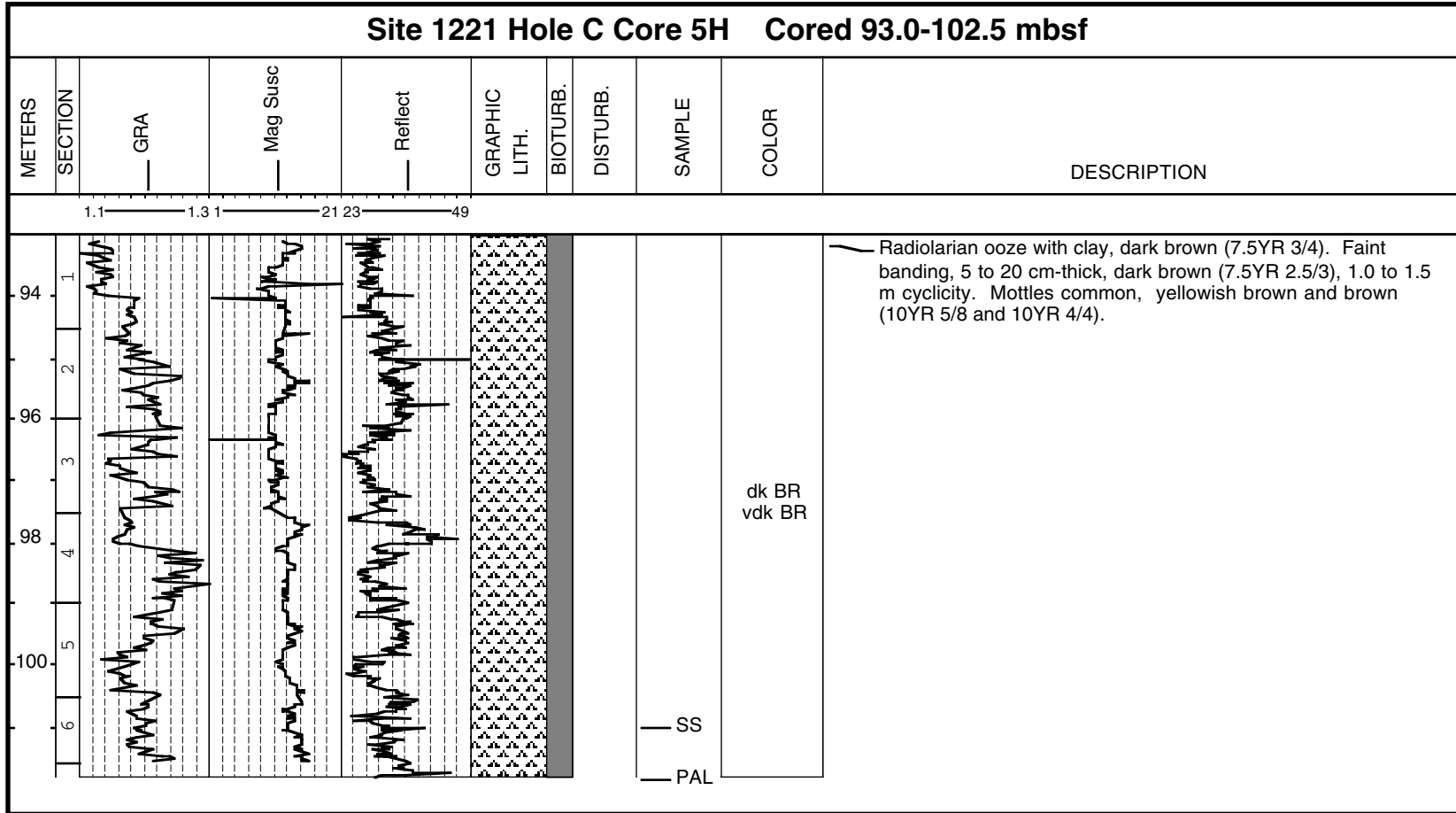
# Core Photo



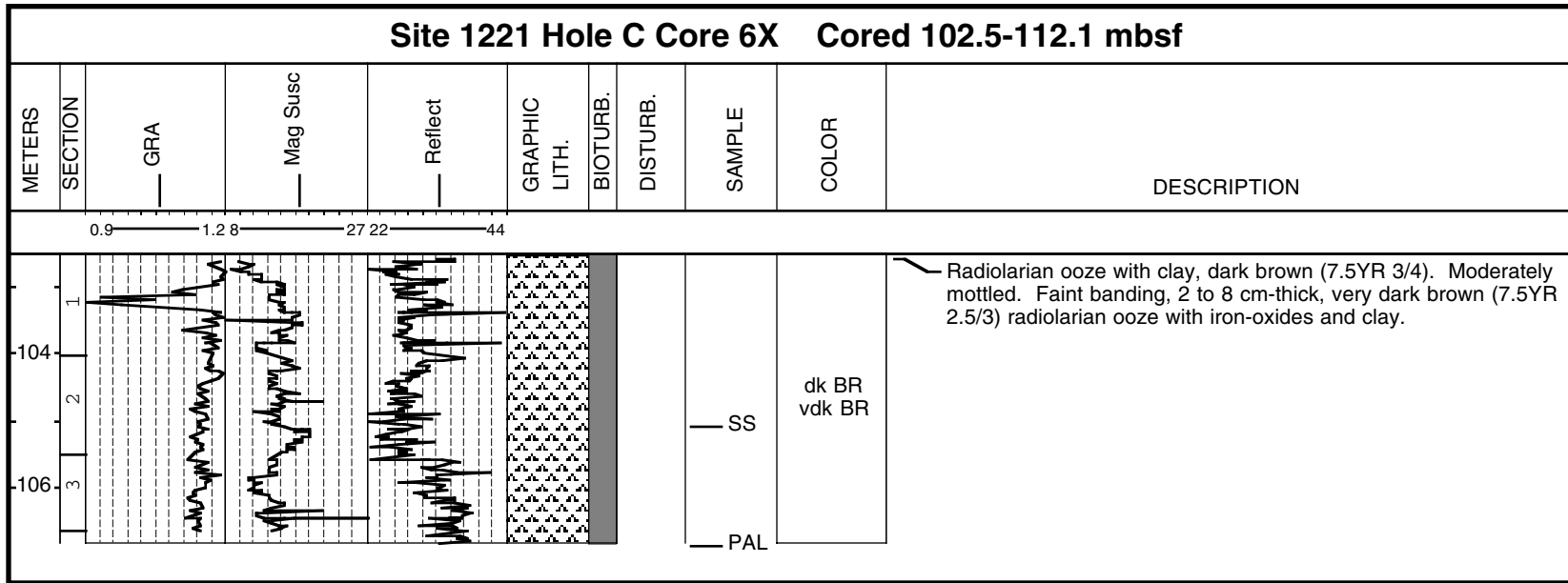
# Core Photo



# Core Photo



## Core Photo



## Core Photo

Site 1221 Hole C Core 7X Cored 112.1-121.7 mbsf										
METERS	SECTION	GFA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.4			1.8-3.0	3.0	60.0					
										Chert fragments, 2-4 cm-sized, black (N1), containing dark yellowish brown (10YR 4/4) bands.

## Core Photo

Site 1221 Hole C Core 8X Cored 121.7-131.3 mbsf										
METERS	SECTION	GFA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.4										
1.8-3.0										
3.0										
60.0										
85.0										
										Chert fragements, 2-6 cm-sized, very dark brown (10YR 2/2), containing dark yellowish brown (10YR 4/4) and white (10YR 8/1) bands.

## Core Photo

Site 1221 Hole C Core 9X Cored 131.3-140.8 mbsf										
METERS	SECTION	GFA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.4										
1.8										
3.0										
60.0										
85.0										
<p>One piece of chert, 3 cm, black (N1), containing dark yellowish brown (10YR 3/4) and very pale brown (10YR 7/4) bands.</p>										

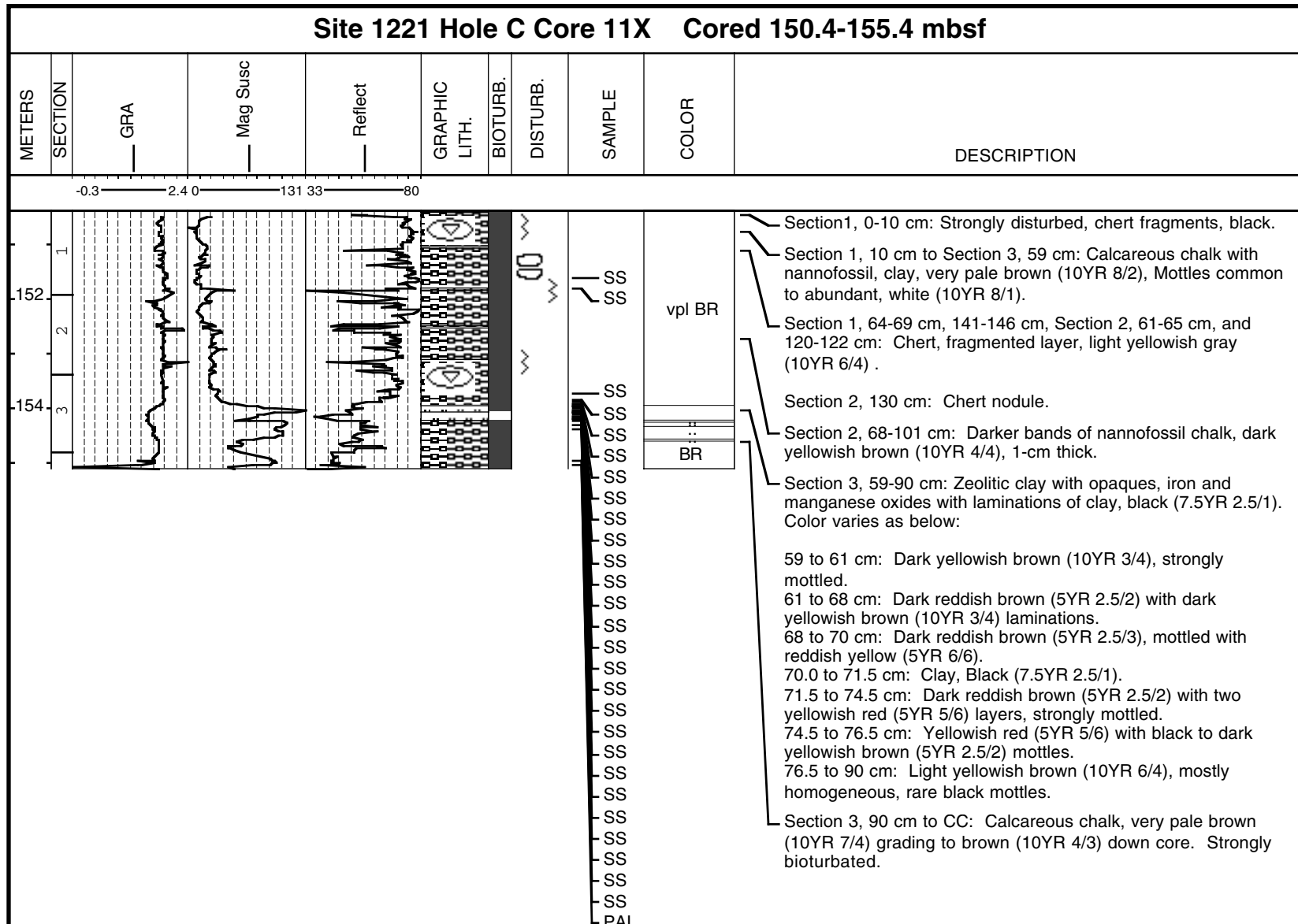


## Core Photo

Site 1221 Hole C Core 10X Cored 140.8-150.4 mbsf										
METERS	SECTION	GRA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.2										
1.2										
24.0										
27.0										
38										
47										
										<p>Section CC, 0-10 cm:</p> <p>0-10 cm: Chert, fragmented by drilling, black (N1) with dark brown (10YR 3/3) laminations.</p> <p>10-12 cm: Radiolarian ooze, yellowish brown (10YR 5/6). Probably downhole debris.</p> <p>12-22 cm: Nannofossil ooze with calcite, very pale brown (10YR 7/3). Minor components include dolomite (5%), Thoracosphaera microfossils (2%).</p>

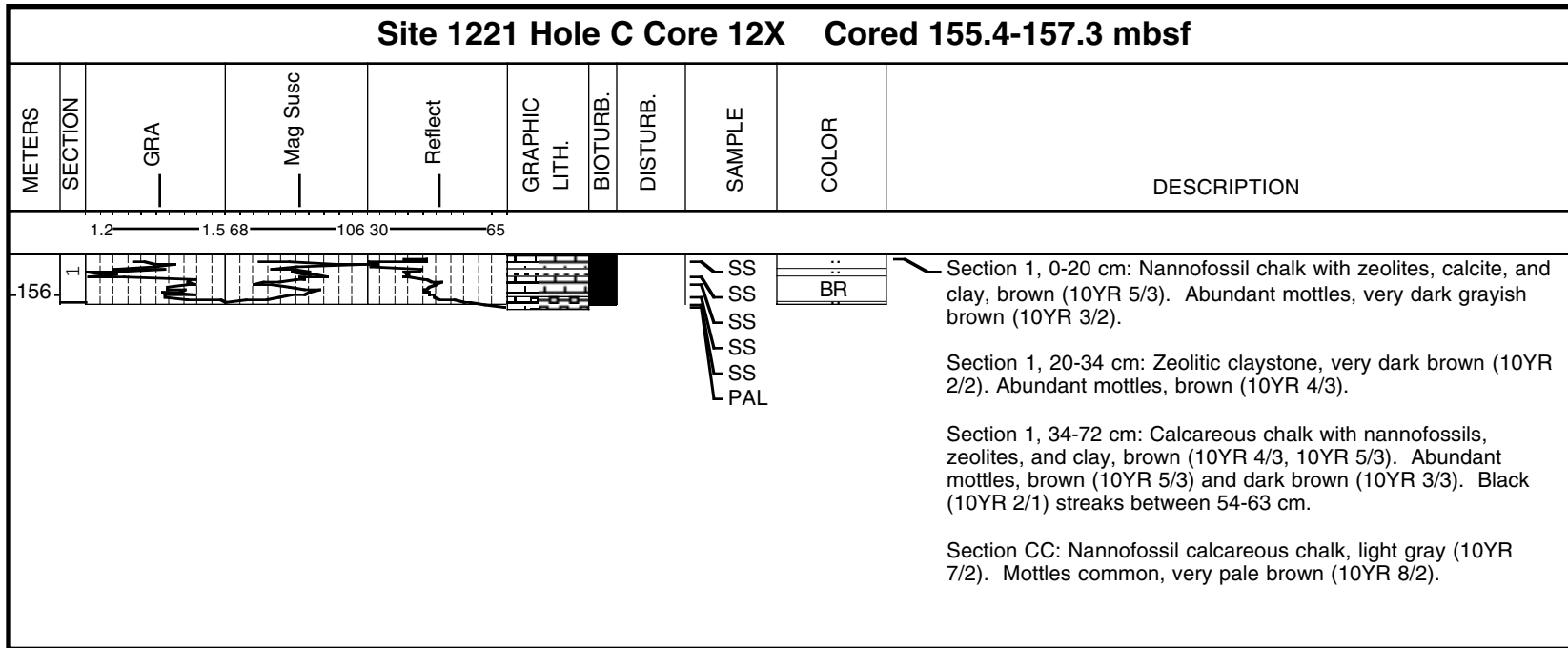
# Core Photo

## Site 1221 Hole C Core 11X Cored 150.4-155.4 mbsf



CORE DESCRIPTIONS  
VISUAL CORE DESCRIPTIONS, SITE 1221

## Core Photo



1221D-1X No Recovery

## Core Photo

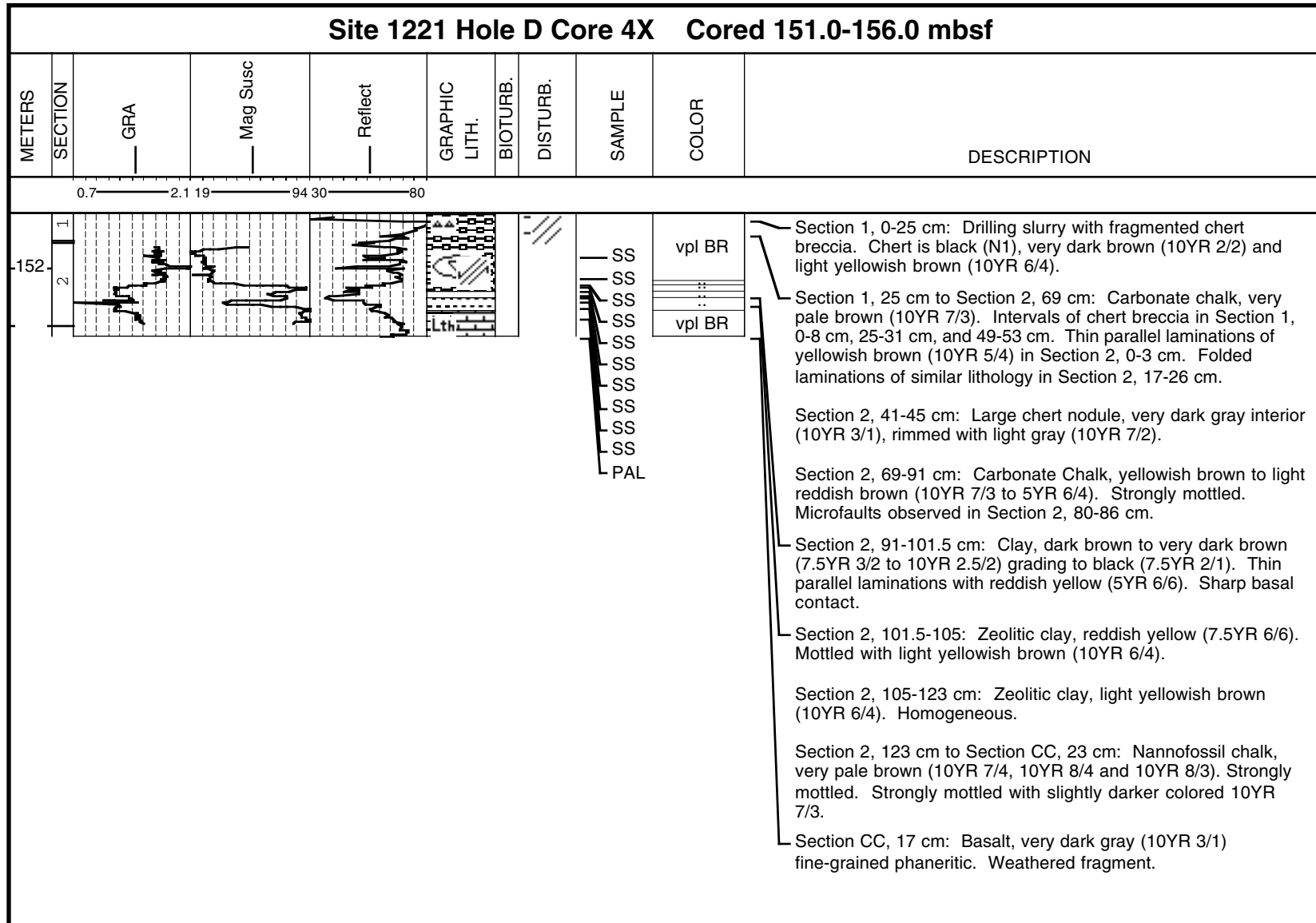
Site 1221 Hole D Core 2X Cored 137.0-142.0 mbsf										
METERS	SECTION	GFA	Mag Susc	Reflect	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1.4										
1.8										
3										
6										
85										
										Chert, 1 angular fragment, 3 cm, dark yellowish brown (10YR 3/2) to very dark brown (10YR 2/2) with yellow (10YR 8/6) bands.

## Core Photo

Site 1221 Hole D Core 3X Cored 142.0-144.8 mbsf									
METERS	SECTION			GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
									Chert, 1 cm angular fragment, black (N1).

# Core Photo

## Site 1221 Hole D Core 4X Cored 151.0-156.0 mbsf



Sample								Texture			Mineral										Biogenic							Comments								
	Leg	Site	Hole	Core	Coretype	Section	Top Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite (14)	Calcite (30)	Clay Mineral (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Opauques (140)	Plagioclase (159)	Volcanic Glass (81)	Zeolite (222)	Calcspheres (29)	Diatoms (58)	Fish Remains (74)	Foramifers (78)	Nannofossils (132)		Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Theracosphaera (252)				
<b>Hole A</b>																																				
199	1221	A	1	H	4	17	4.67	D			100			10							10			15			35	30							Radiolarian, nannofossil ooze with diatoms, clay and glass	
199	1221	A	1	H	4	75	5.25	D			100			10							10			40			35	5							Nannofossil, diatom ooze with clay, and volcanic glass	
199	1221	A	1	H	4	80	5.30	D			100			10							15			25			40	10							Nannofossil ooze with diatoms, volcanic glass, radiolarians and clay	
199	1221	A	1	H	5	40	6.40	D			100			10							10			35			30	15							Nannofossil diatom ooze with radiolarian, clay, and volcanic glass	
199	1221	A	1	H	5	90	6.90	D			100			20		1					15			24			20	20							Diatom ooze with clay, glass, nannofossils, and radiolarians	
199	1221	A	1	H	6	109	8.59	D			100			56		2		3			2	2						35							Radiolarian clay	
199	1221	A	1	H	7	30	9.30	D			100			53		7		3			2	35													Zeolitic clay	
199	1221	A	1	H	7	80	9.80	D			100			15		5								*				80								Radiolarian ooze with clay
199	1221	A	1	H	CC	20	10.09	D			100			15		3								2				80								Radiolarian ooze with clay
199	1221	A	2	H	1	64	10.14	D			100			40		15		15			1	29													Zeolitic clay with Fe-oxides and opaque minerals	
199	1221	A	2	H	3	9	12.59	D			100			55		15		15			*							15								Clay with Fe-oxides, opaque minerals, and radiolarians
199	1221	A	2	H	3	30	12.80	D			100			15		5		3										77								Radiolarian ooze with clay
199	1221	A	2	H	5	9	15.59	M			100			5														95								Radiolarian ooze
199	1221	A	3	H	4	60	24.10	M			100			65		20					10	5		*												Clay with iron oxides and volcanic glass
199	1221	A	3	H	4	80	24.30	D			100			39		2								5			45	9								Clayey radiolarian ooze
199	1221	A	4	H	3	93	32.43	M			100			25		5							1				69	*								Clayey radiolarian ooze
199	1221	A	4	H	5	123	35.73	D			100			15		2							3				78	2							Radiolarian ooze with clay	
199	1221	A	4	H	6	90	36.90	M			100			15		*											83	2							Radiolarian ooze with clay	
199	1221	A	4	H	6	119	37.19	M			100			20													79	1							Radiolarian ooze with clay	
199	1221	A	5	H	1	90	38.90	D			100			20		5					5		*				65	5							Radiolarian ooze with clay	
199	1221	A	5	H	4	60	43.10	D			100			18		2							35				40	5							Diatomaceous radiolarian ooze with clay	
199	1221	A	5	H	5	20	44.20	D			100			15		5		3					20				57	*							Radiolarian ooze with diatoms and clay	
199	1221	A	5	H	7	20	47.20	D			100			36		5							5				45	9							Clayey radiolarian ooze	
199	1221	A	6	H	5	117	54.67	D			100			20			*										78	2							Radiolarian ooze with clay	
199	1221	A	7	H	4	80	62.30	D			100			20		6											65	9	*						Radiolarian ooze with clay	
199	1221	A	8	H	4	117	72.17	M			100			5										*			93	2							Radiolarian ooze	
199	1221	A	8	H	5	51	73.01	M			100			8		1		1						*			88	2							Radiolarian ooze	
199	1221	A	8	H	6	39	74.39	D			100			10		5								*			83	2							Radiolarian ooze with clay	
199	1221	A	10	H	4	60	90.60	D			100			10		3								*			87								Radiolarian ooze with clay	
199	1221	A	10	H	6	50	93.50	D			100			20		5		5									70								Radiolarian ooze with clay	
199	1221	A	11	H	4	30	99.80	D			100			15		3											82								Radiolarian ooze with clay	
199	1221	A	11	H	4	80	100.30	D			100			20		10		3									67								Radiolarian ooze with clay and Fe-oxides	
199	1221	A	11	H	6	30	102.80	D			100			20		5		5									70								Radiolarian ooze with clay	
199	1221	A	12	H	2	90	106.90	D			100			55		8		7									30								Radiolarian clay (Flow in)	
199	1221	A	12	H	6	75	112.75	D			100			10		3											87								Radiolarian ooze (Flow in)	
<b>Hole B</b>																																				
199	1221	B	1	H	1	2	0.02	D			100			45		10		10						15				20								Clay with radiolarians, diatoms, Fe-oxides, and opaque minerals
199	1221	B	1	H	1	11	0.11	D			100			55		15		20				5					5								Clay with opaques and Fe-oxides	
199	1221	B	1	H	1	82	0.82	D			100			10										60				30								Radiolarian diatom ooze with clay

Sample											Texture			Mineral							Biogenic									Comments							
Leg	Site	Hole	Core	Coretype	Section	Top Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite (14)	Calcite (30)	Clay Mineral (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Opauques (140)	Plagioclase (159)	Volcanic Glass (81)	Zeolite (222)	Calcspheres (29)	Diatoms (58)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)		Theracospera (252)						
<b>Hole B (continued)</b>																																					
199	1221	B	1	H	1	139	1.39	D			100																90	10							Nannofossil ooze with radiolarians		
199	1221	B	1	H	2	30	1.80	D			100																85	15							Nannofossil ooze with radiolarians		
199	1221	B	1	H	3	39	3.39	D			100			20					10					15				55							Radiolarian ooze with clay, diatoms, and volcanic glass		
199	1221	B	2	H	2	99	7.19	D			100			20	2		2							5				71							Radiolarian ooze with diatoms		
199	1221	B	2	H	3	139	9.09	D			100			10	3				5								77	5							Nannofossil ooze with clay		
199	1221	B	2	H	4	130	10.50	D			100			15	3		1						*				81								Radiolarian ooze with clay		
199	1221	B	2	H	5	99	11.69	D			100			75	10		5		*	10															Clay with Fe-oxides and zeolites		
<b>Hole C</b>																																					
199	1221	C	1	H	1	99	0.99	D			100			15	*								*					83	2							Radiolarian ooze with clay	
199	1221	C	1	H	1	130	1.30	D			100			3	*								*				77	20	*						Nannofossil ooze with radiolarians		
199	1221	C	1	H	4	100	5.50	D			100			8	4					1			35				20	30	2						Radiolarian diatom ooze with nannofossils		
199	1221	C	1	H	4	142	5.92	M			100			5									35				20	40	*							Diatomaceous radiolarian ooze with nannofossil	
199	1221	C	1	H	5	95	6.95	D			100			15						5			25				15	40	*							Diatom radiolarian ooze with nannofossils and clay	
199	1221	C	1	H	CC	0	7.18	D			100			30	1				1			*				55	13									Clayey nannofossil ooze with radiolarians	
199	1221	C	2	H	1	30	7.70	D			100			30	8		2						*		*		60	*								Clayey radiolarian ooze	
199	1221	C	2	H	5	30	13.70	M			100			65	20	*				15																Clay with iron oxides and zeolites	
199	1221	C	3	H	1	130	35.30	D			100			15	3	*							5				75	2								Radiolarian ooze with clay	
199	1221	C	3	H	3	75	37.75	M			100			72	8					5							15	*								Clay with radiolarians	
199	1221	C	4	H	4	130	84.80	M			100			40	24		9										23	4								Clay with radiolarians and iron oxides	
199	1221	C	5	H	6	49	100.99	M			100			3			2						2				90	3								Radiolarian ooze	
199	1221	C	6	X	2	104	105.04	M			100			10		15							2	*			73	*								Radiolarian ooze with iron oxides and clay	
199	1221	C	10	X	CC	10	140.90	M			100			3	*											5	90	2								Radiolarian ooze	
199	1221	C	10	X	CC	20	141.00	D			100			20	3	5											70						2			Nannofossil ooze with calcite	
199	1221	C	11	X	1	121	151.61	D			100			50	10	18							1			1	20									Calcareous chalk with dolomite, nannofossils, and clay	
199	1221	C	11	X	1	139	151.79	D			100			30	15	30									*		25										Carbonate chalk with nannofossils and clay
199	1221	C	11	X	3	30	153.70	D			100			55	10	15							5				15										Calcareous chalk with dolomite, nannofossils, and clay
199	1221	C	11	X	3	45	153.85	D			100			60	10	7							3				20										Calcareous chalk with nannofossils, dolomite, and clay
199	1221	C	11	X	3	48	153.88	D			100			68	10	5	*						2		*		15										Calcareous chalk with nannofossils and clay
199	1221	C	11	X	3	51.5	153.92	D			100			72	15	3						5	*		*	5											Calcareous chalk with clay
199	1221	C	11	X	3	54	153.94	D			100			65	15	*	2			3							15										Calcareous chalk with nannofossils and clay
199	1221	C	11	X	3	55	153.95	D			100			25	20		10		20							15											Carbonate chalk with clay, opaque minerals, nannofossils, and Fe-oxides
199	1221	C	11	X	3	56	153.96	D			100			69	10		*		1				*			20											Carbonate chalk with nannofossils and clay
199	1221	C	11	X	3	57	153.97	D			100			59	15	5			1				*			20											Carbonate chalk with nannofossils and clay
199	1221	C	11	X	3	60	154.00	D			100	3	5	15											2												Zeolite clay
199	1221	C	11	X	3	62	154.02	D			100	5	3	15		1	4							70		2											Zeolite clay
199	1221	C	11	X	3	64	154.04	D			100	5	*	10		3	12							70		*											Zeolite clay with opaques
199	1221	C	11	X	3	66	154.06	D			100	5		10	3		3					*		79													Zeolite clay
199	1221	C	11	X	3	68	154.08	D			100	3	2	20		10	15							50													Zeolite clay with opaques and Fe-oxides
199	1221	C	11	X	3	69	154.09	D			100	2	15	50	4	3	6							10			10										Clay with calcite, nannofossils, and zeolites
199	1221	C	11	X	3	70	154.10	D			100	2	5	25	3	15								45		5											Zeolite silt with clay and opaque minerals
199	1221	C	11	X	3	71	154.11	D			100			45	15	35								5		*											Opaque mineral rich clay with Fe-oxides
199	1221	C	11	X	3	73	154.13	D			100			27	3	25								45		*											Zeolite silt with clay and opaque minerals



