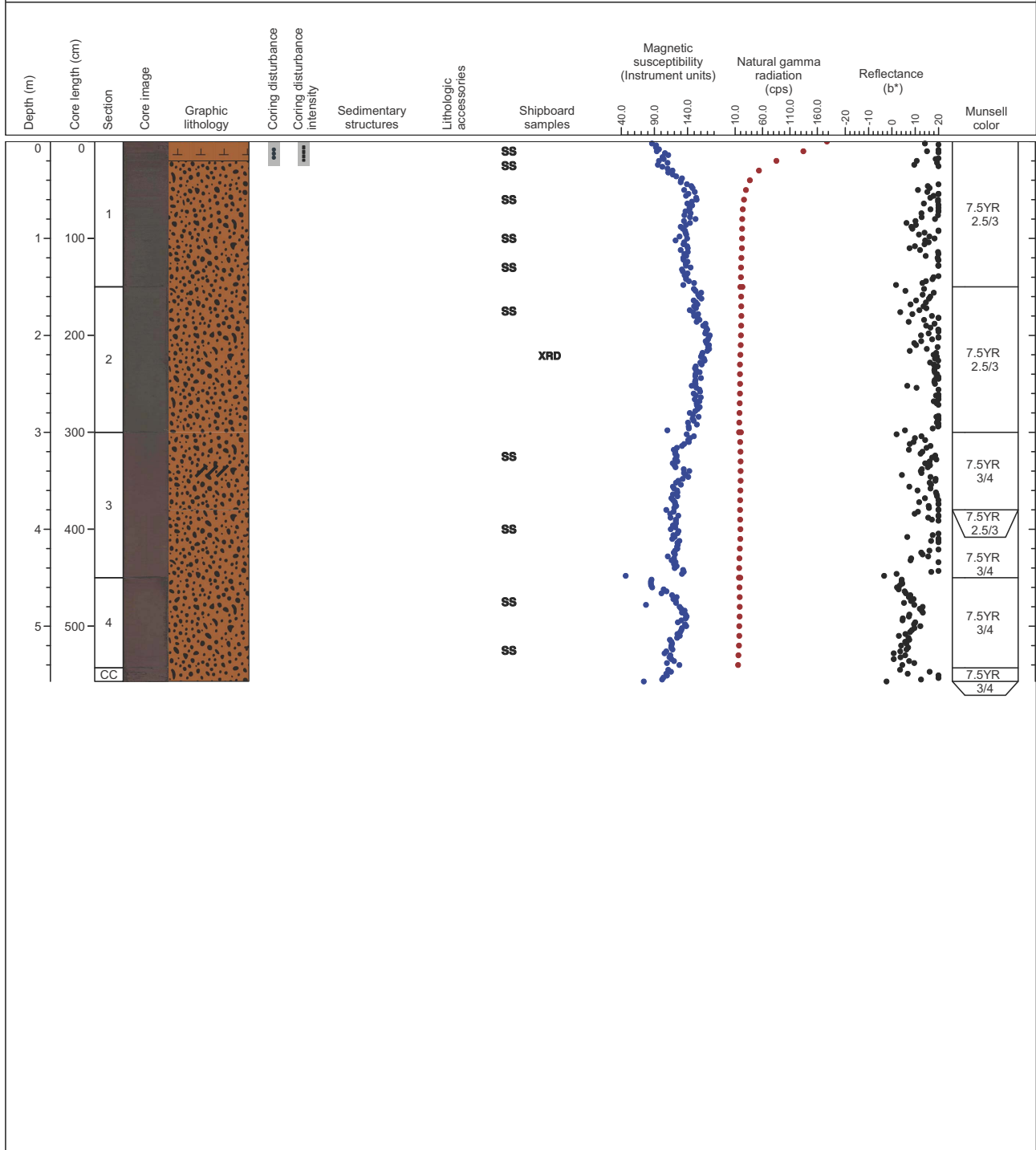


# Core Photo

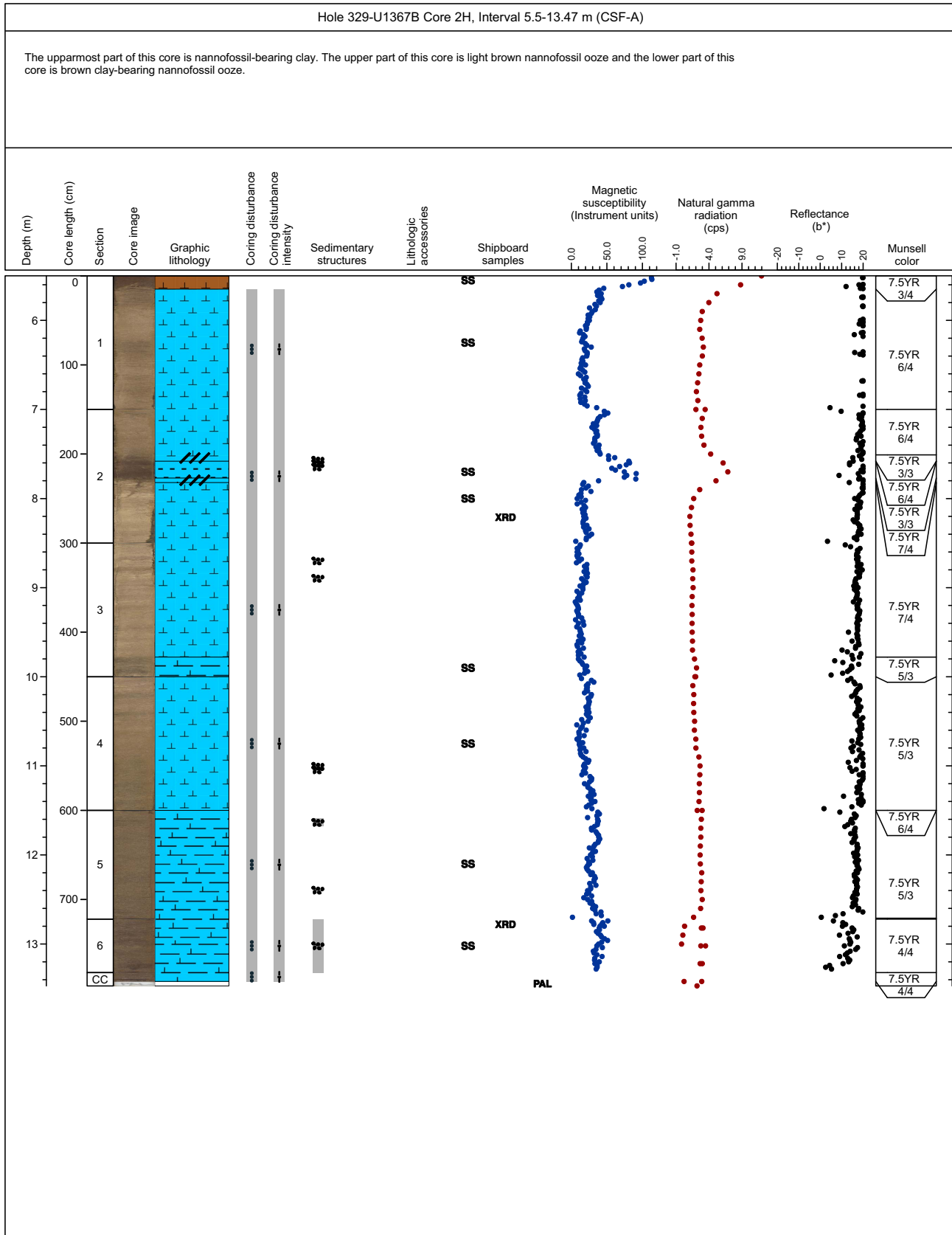
## U1367A-1H: NO RECOVERY

Hole 329-U1367B Core 1H, Interval 0.0-5.57 m (CSF-A)

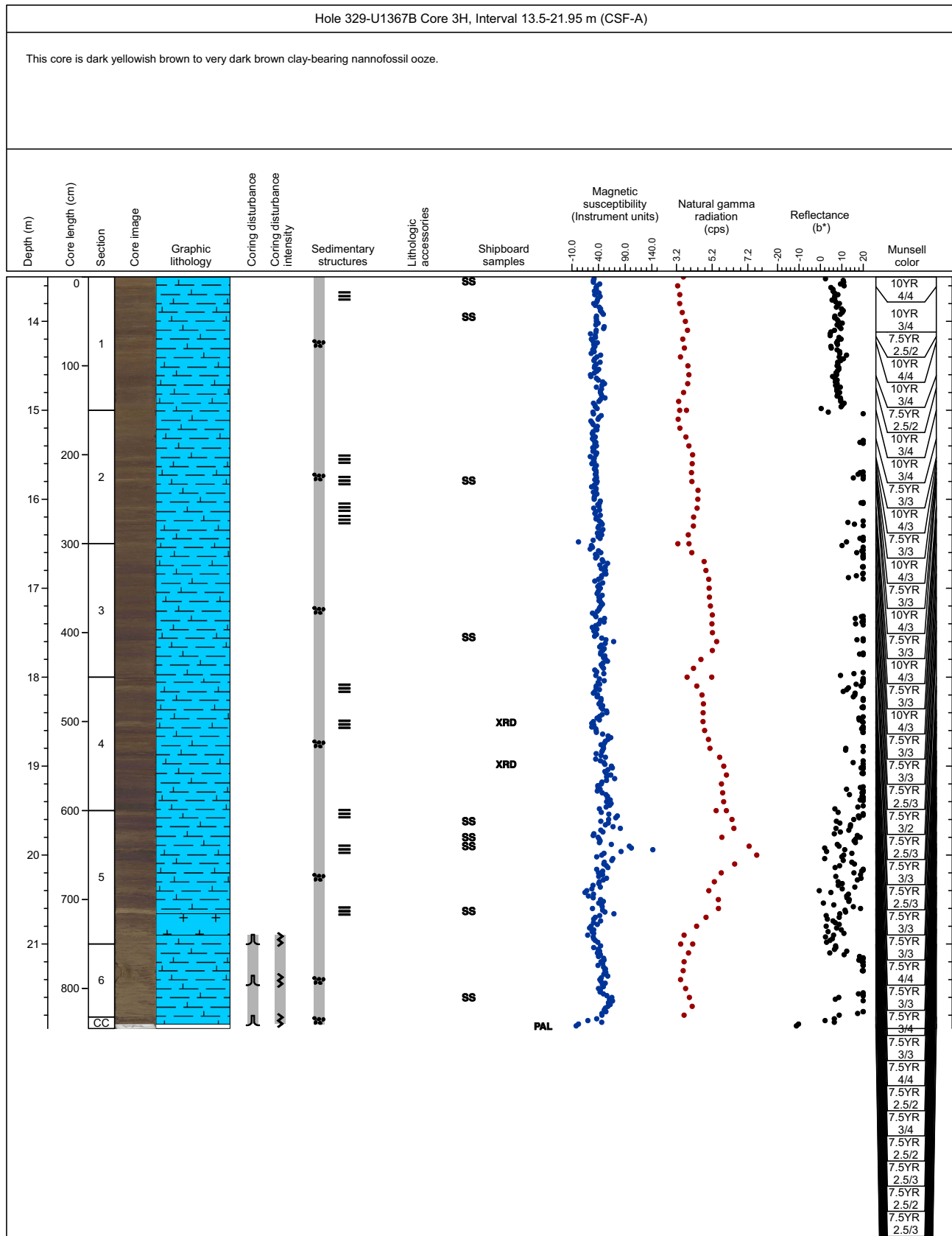
The upper part of this core is very dark brown zeolitic metalliferous pelagic clay and the lower part of this core is dark brown metalliferous pelagic clay. The clay in the uppermost part containing calcareous nannofossils (1-11%).



# Core Photo



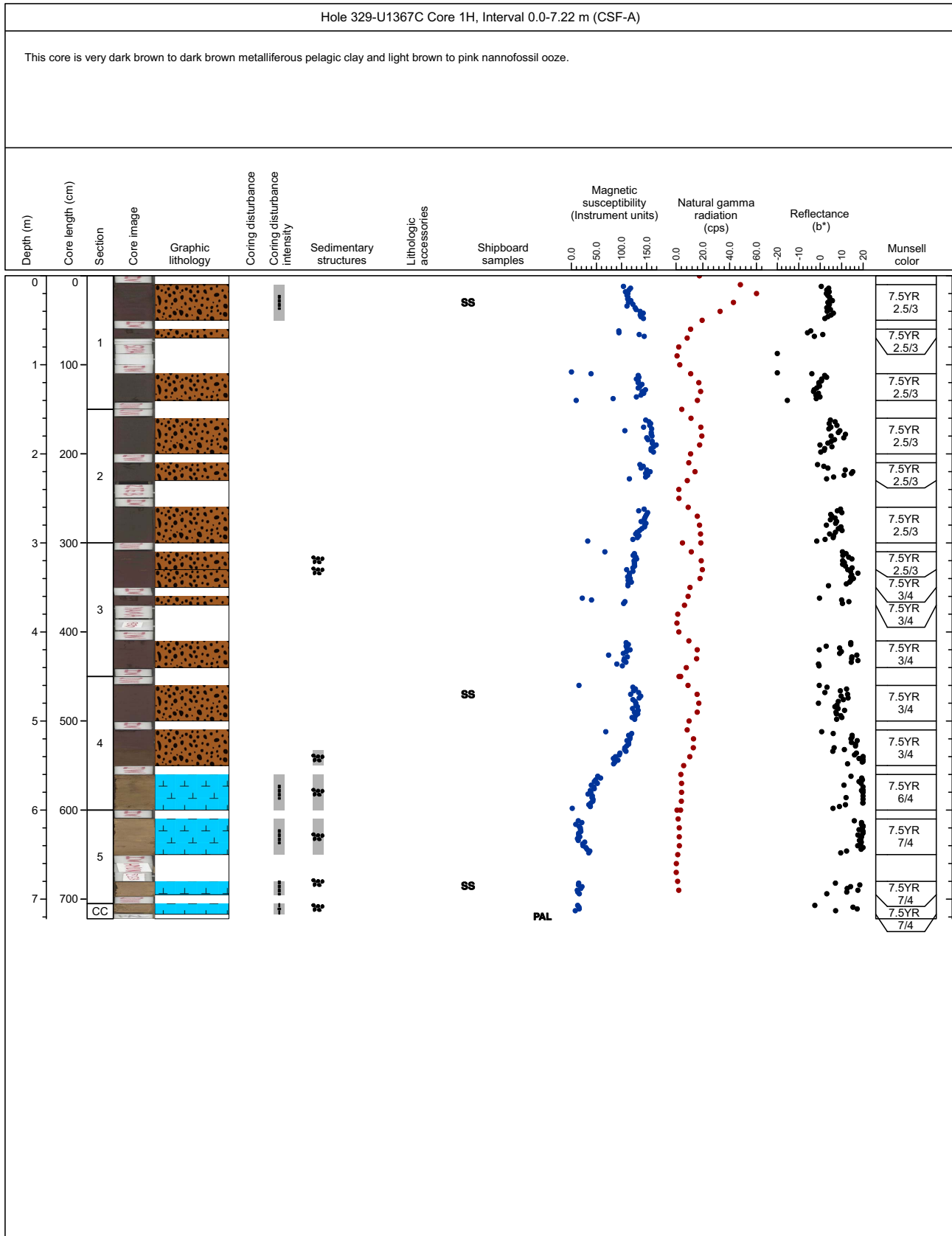
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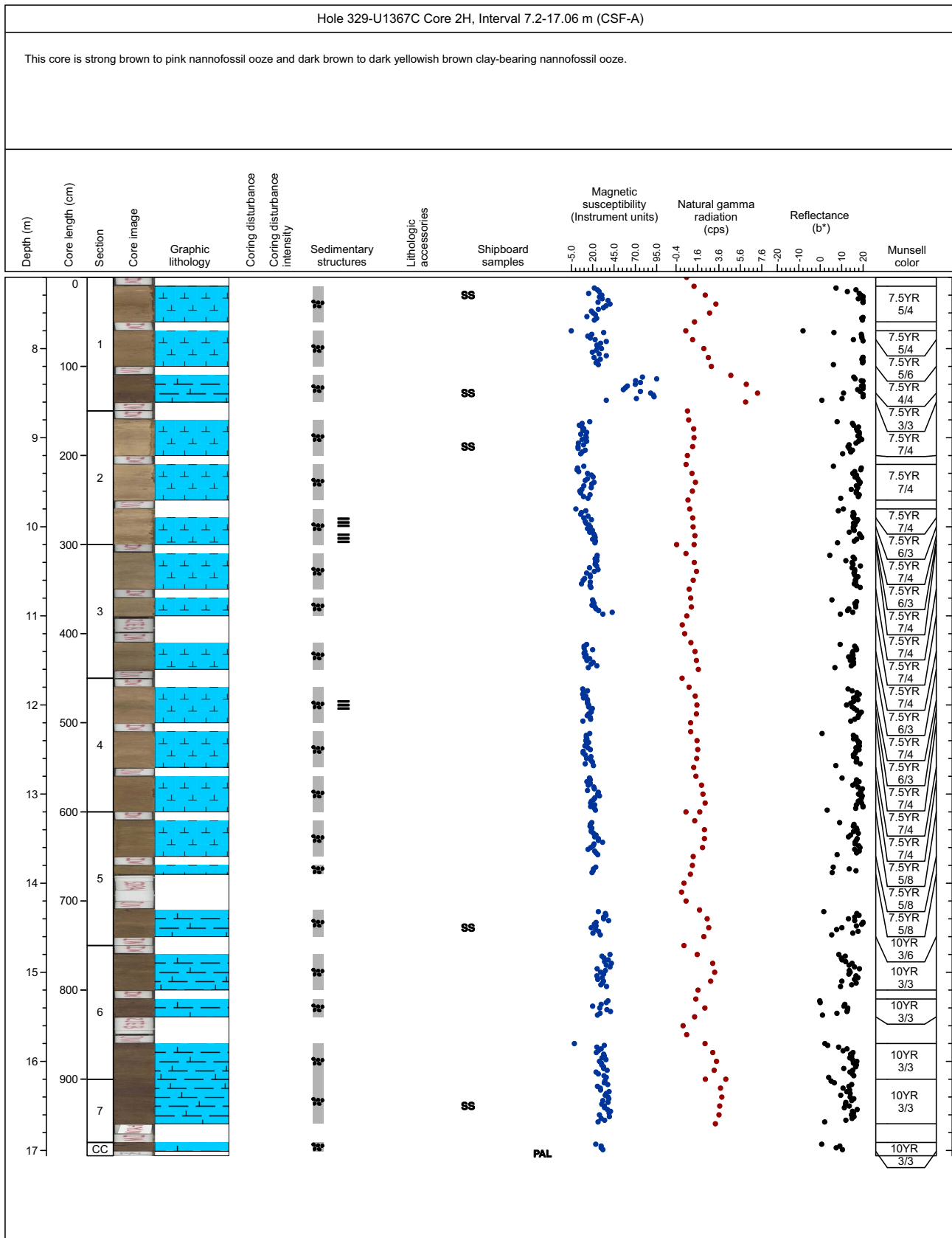
### Core Photo



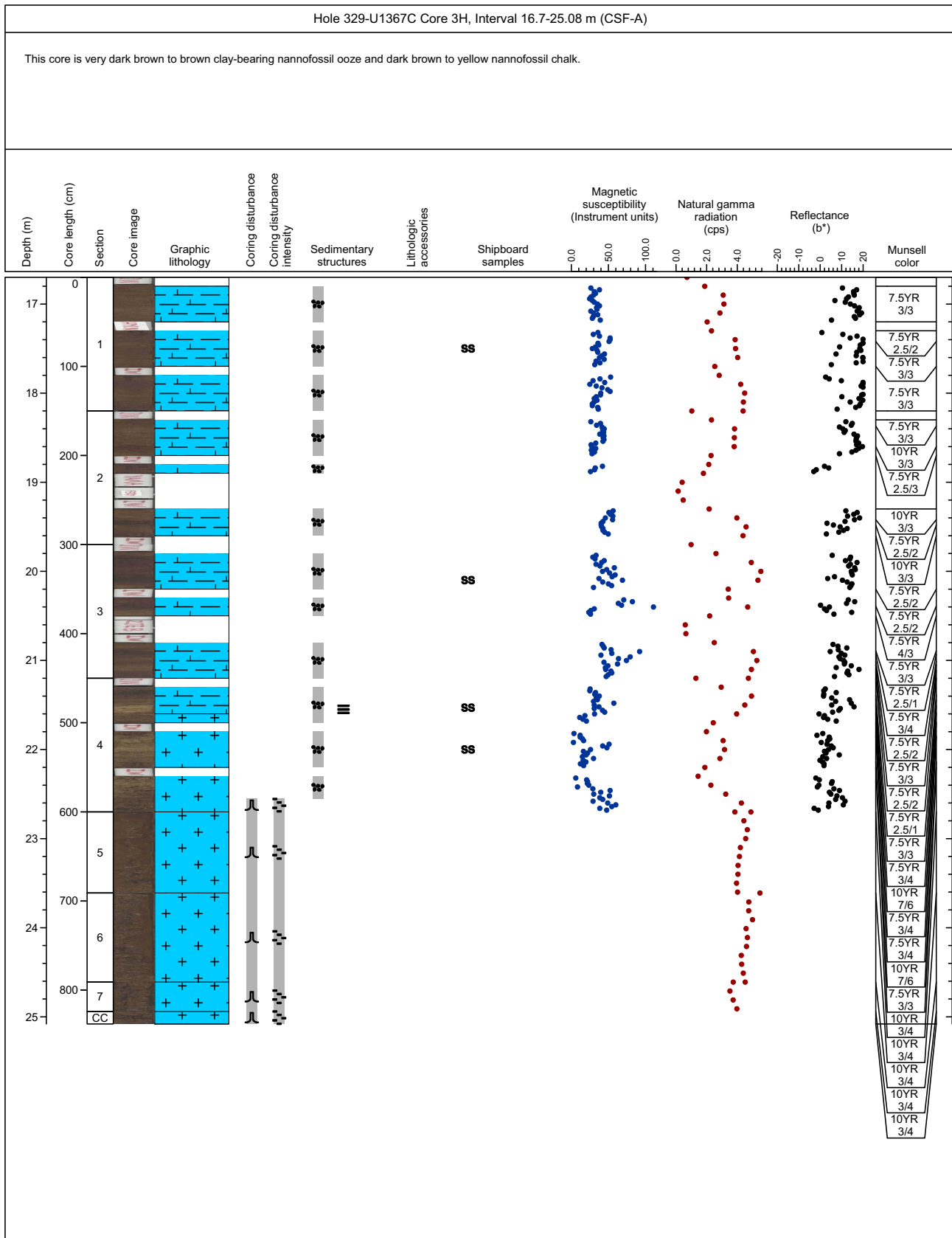
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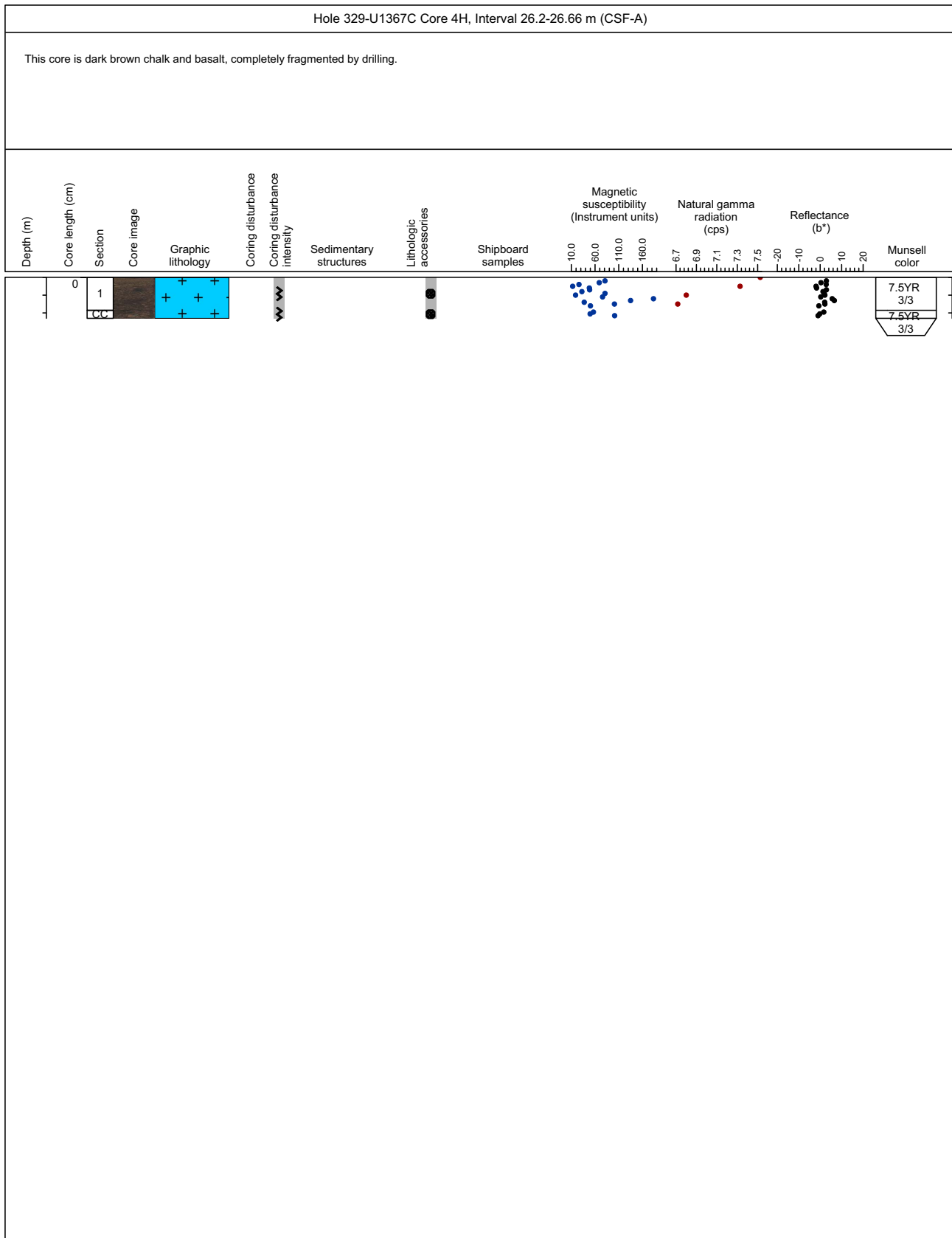
# Core Photo



# Core Photo

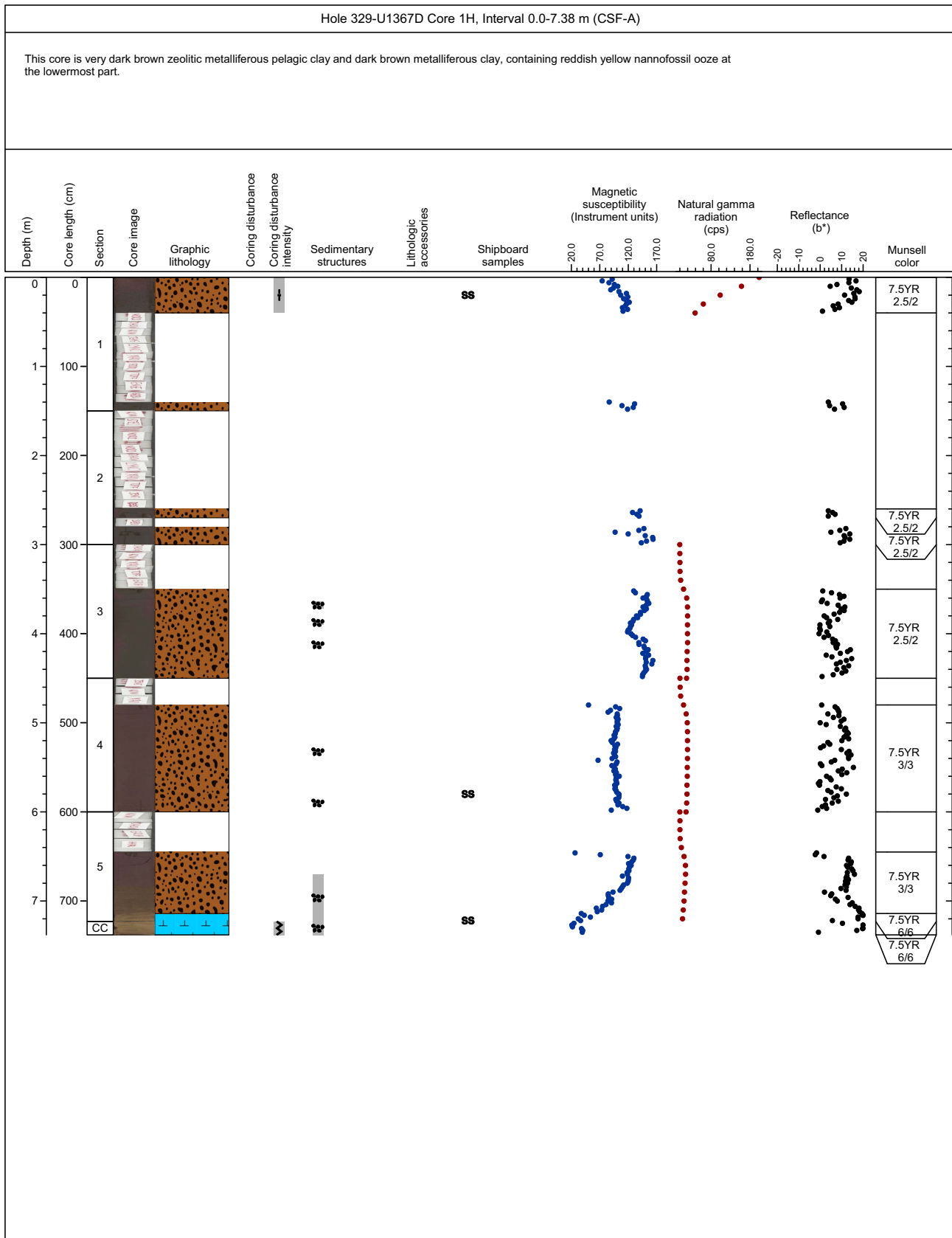


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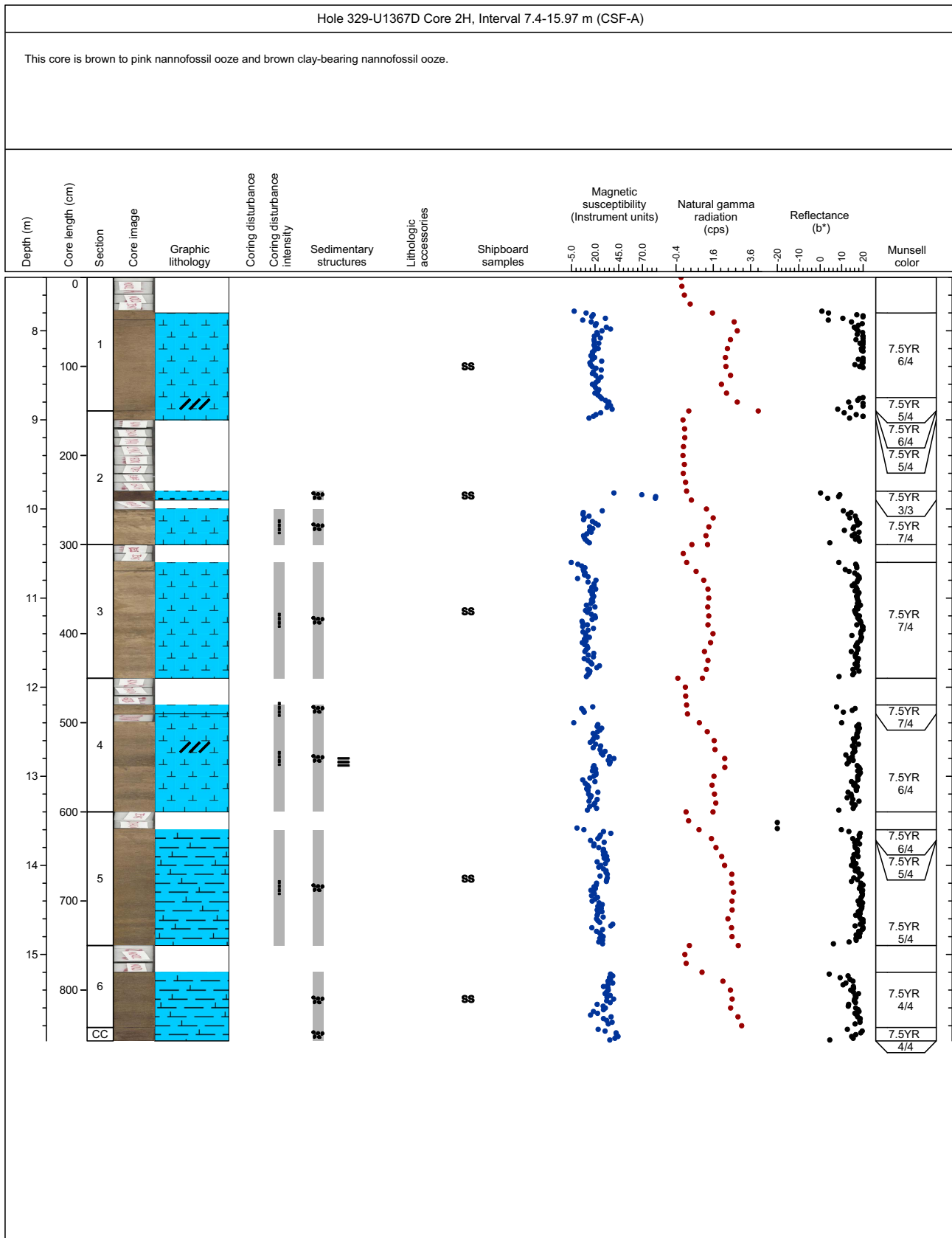




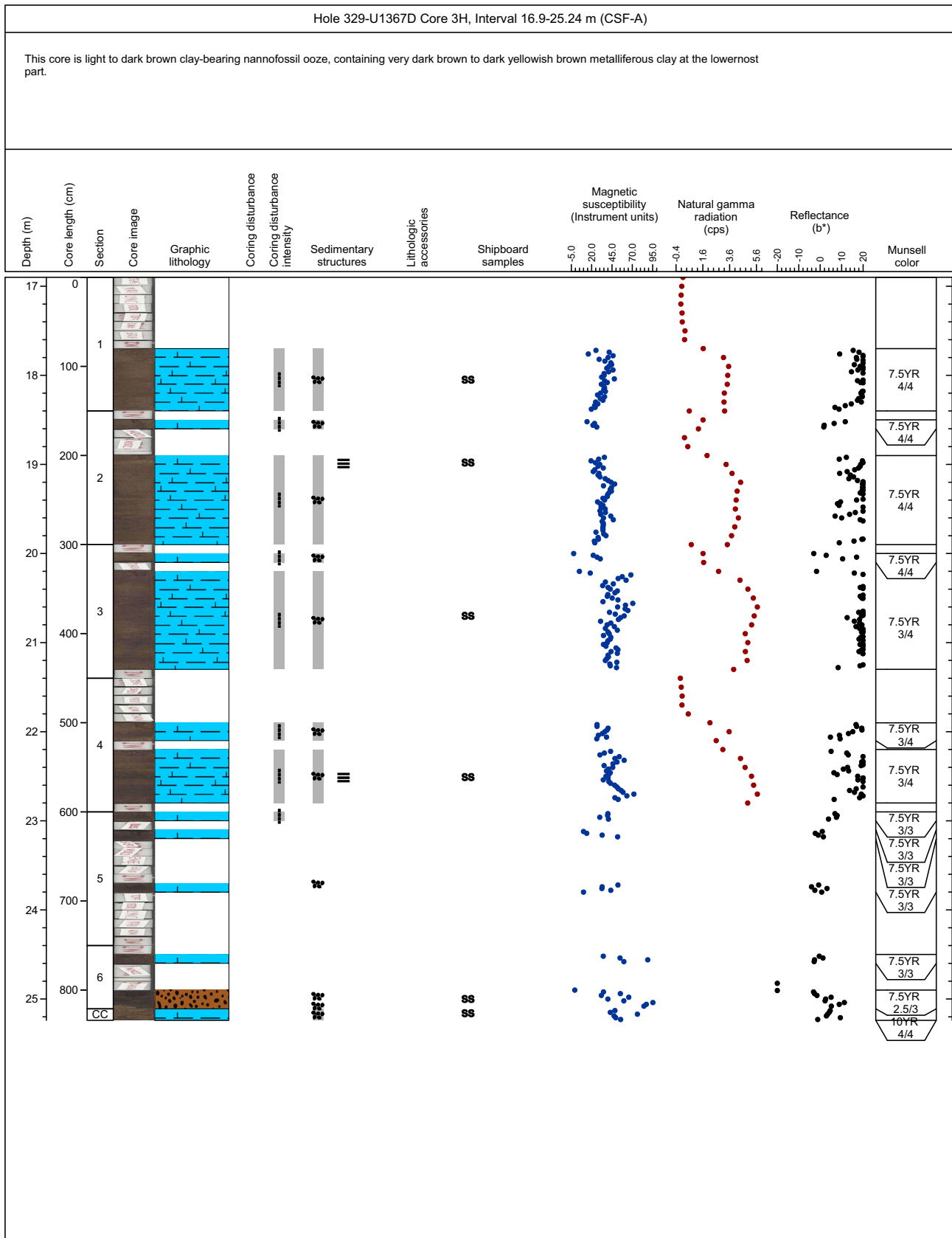
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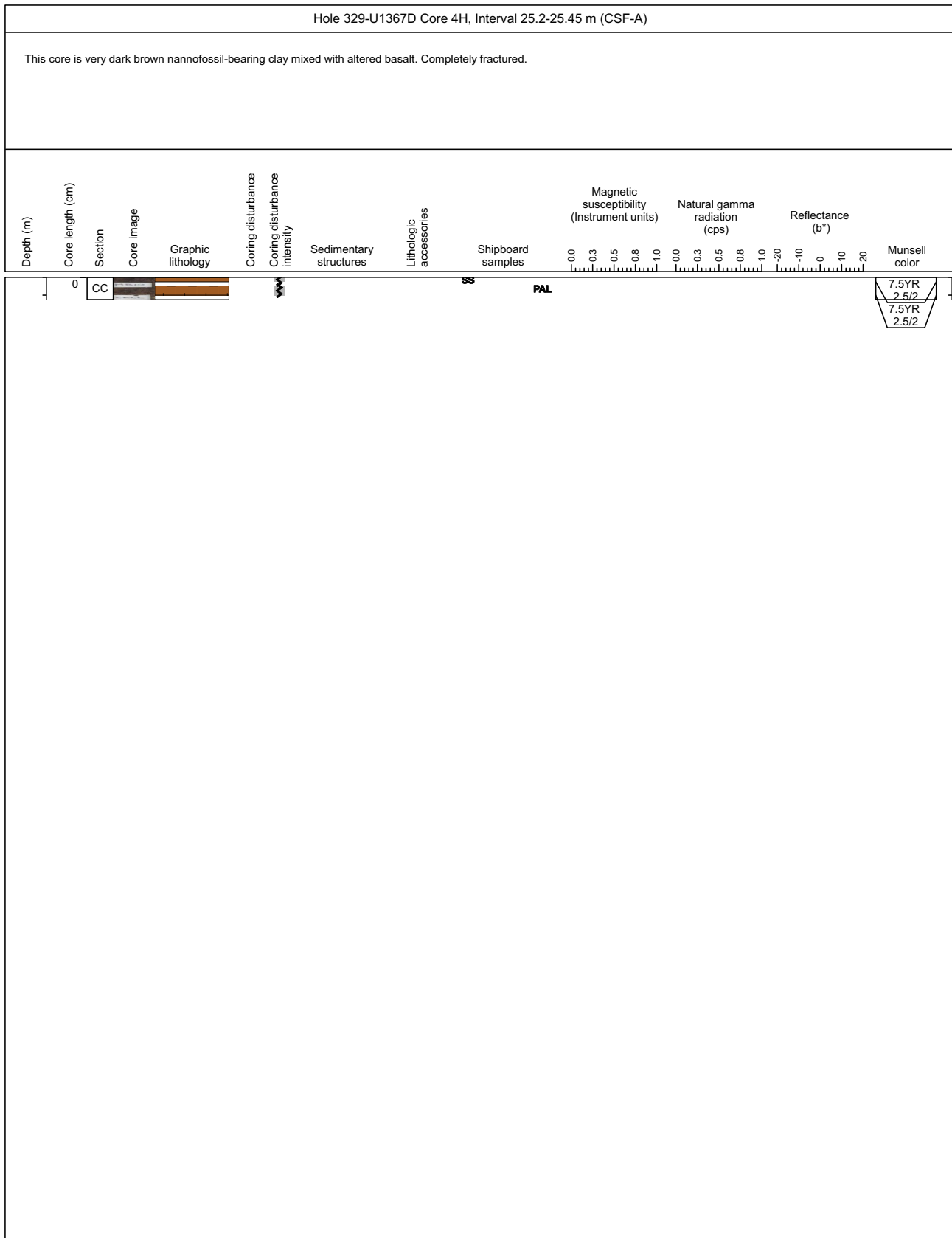
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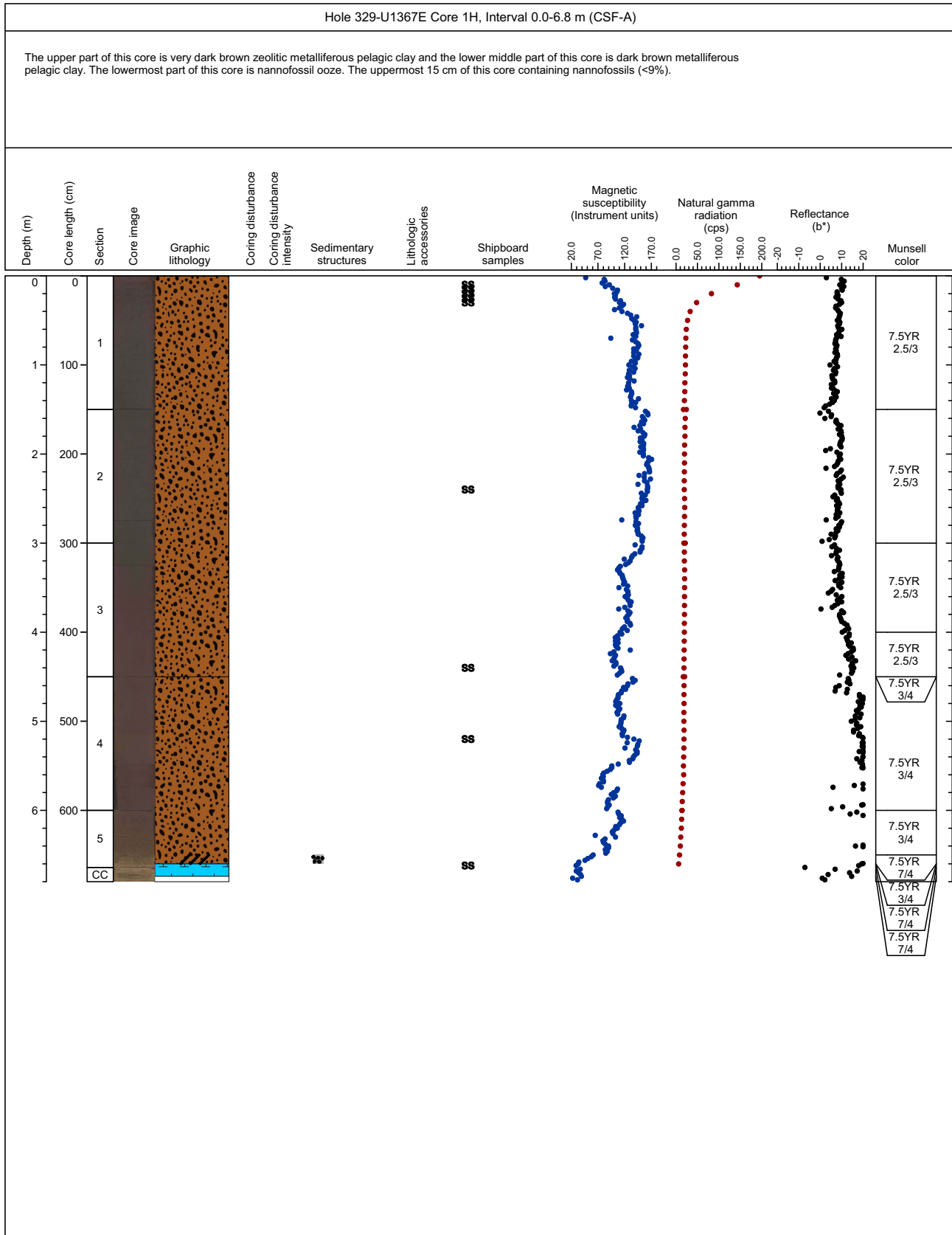
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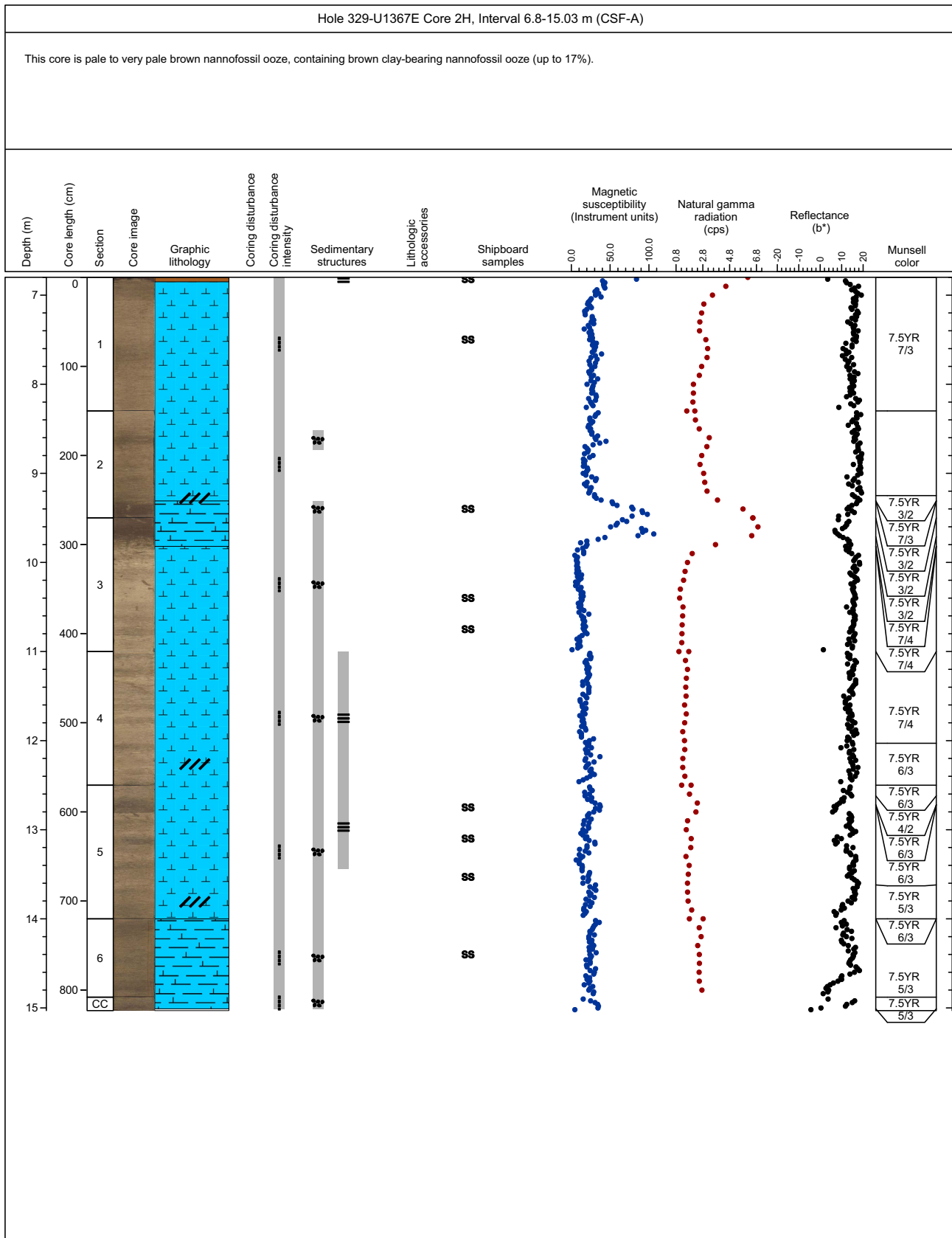
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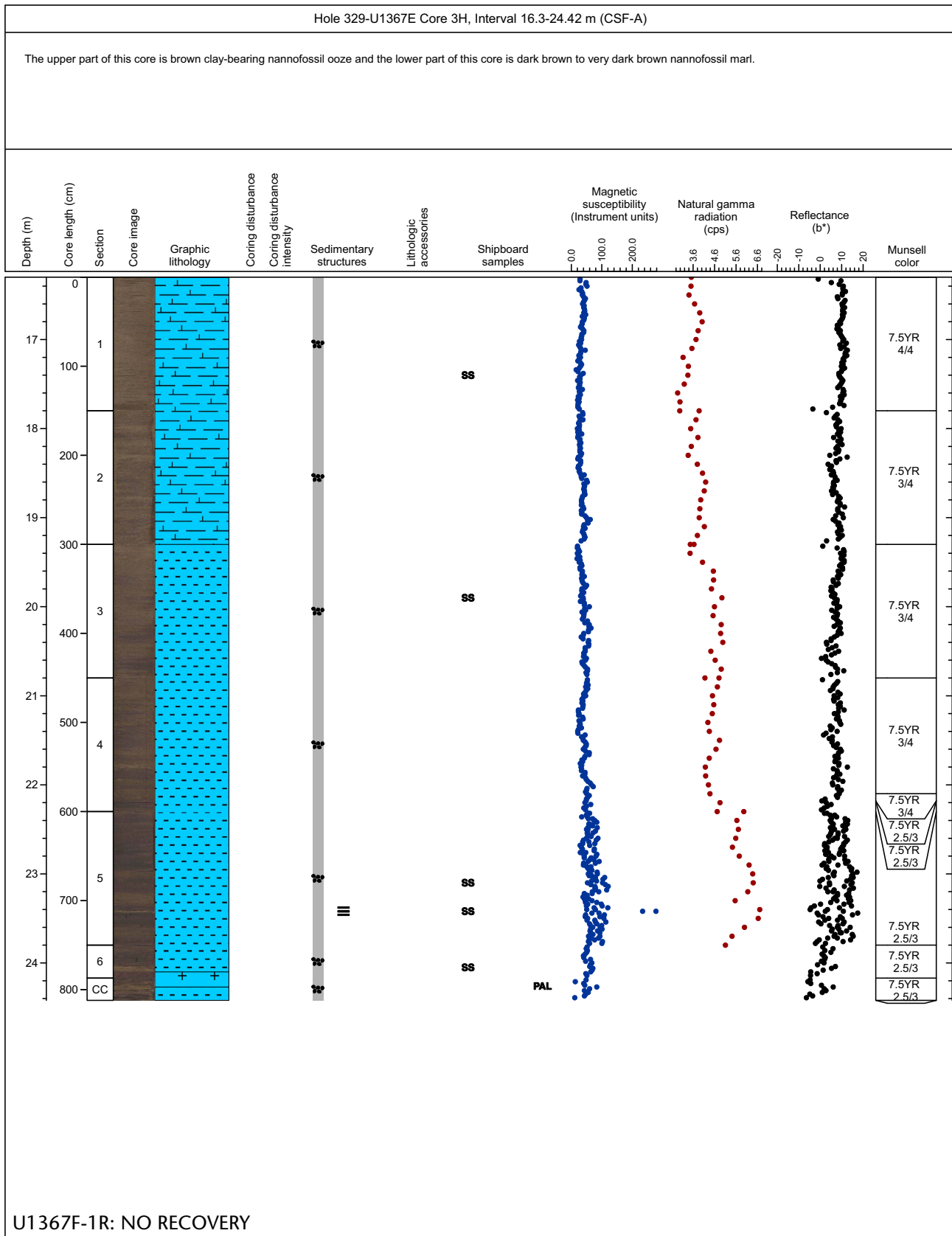
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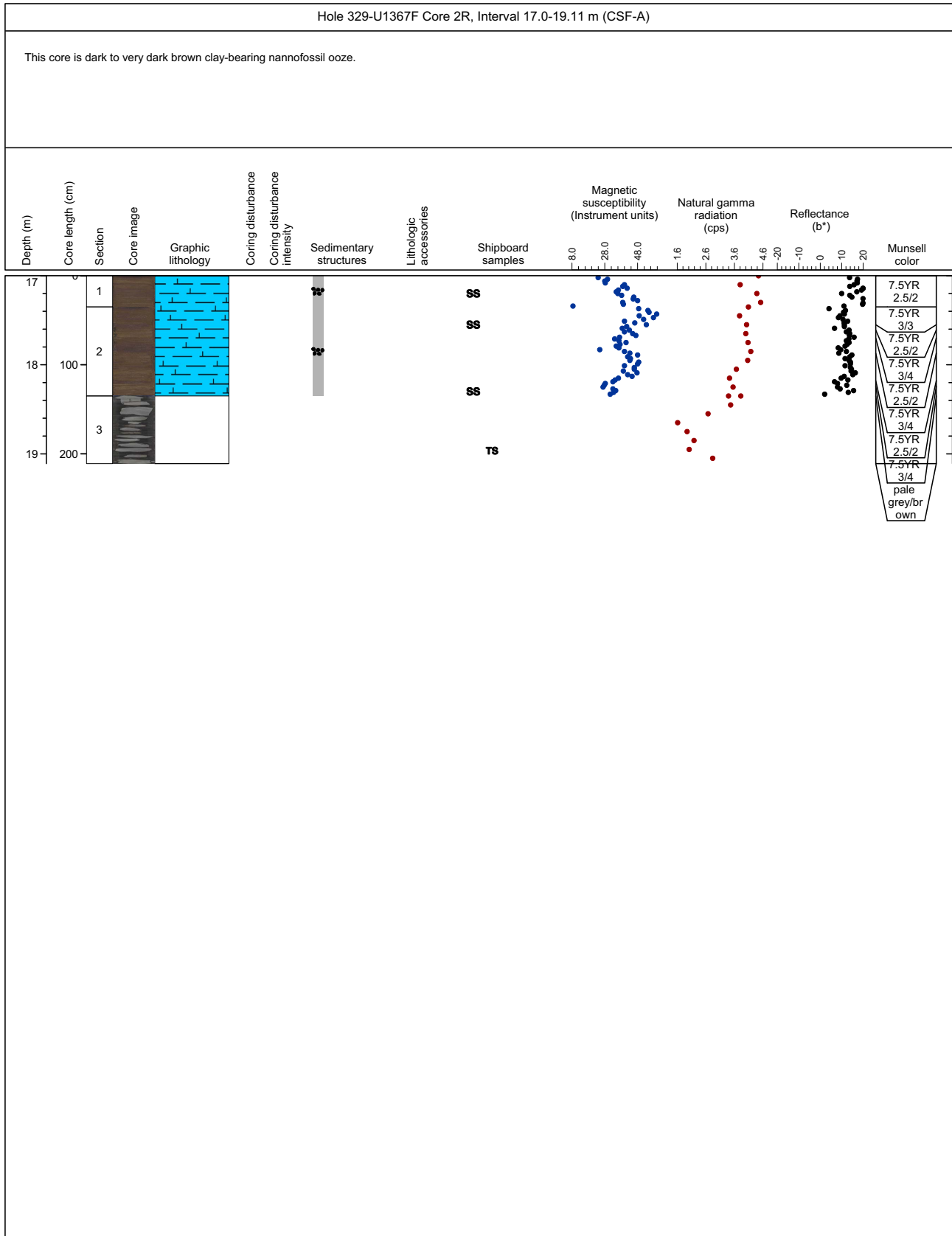
# Core Photo



### Core Photo

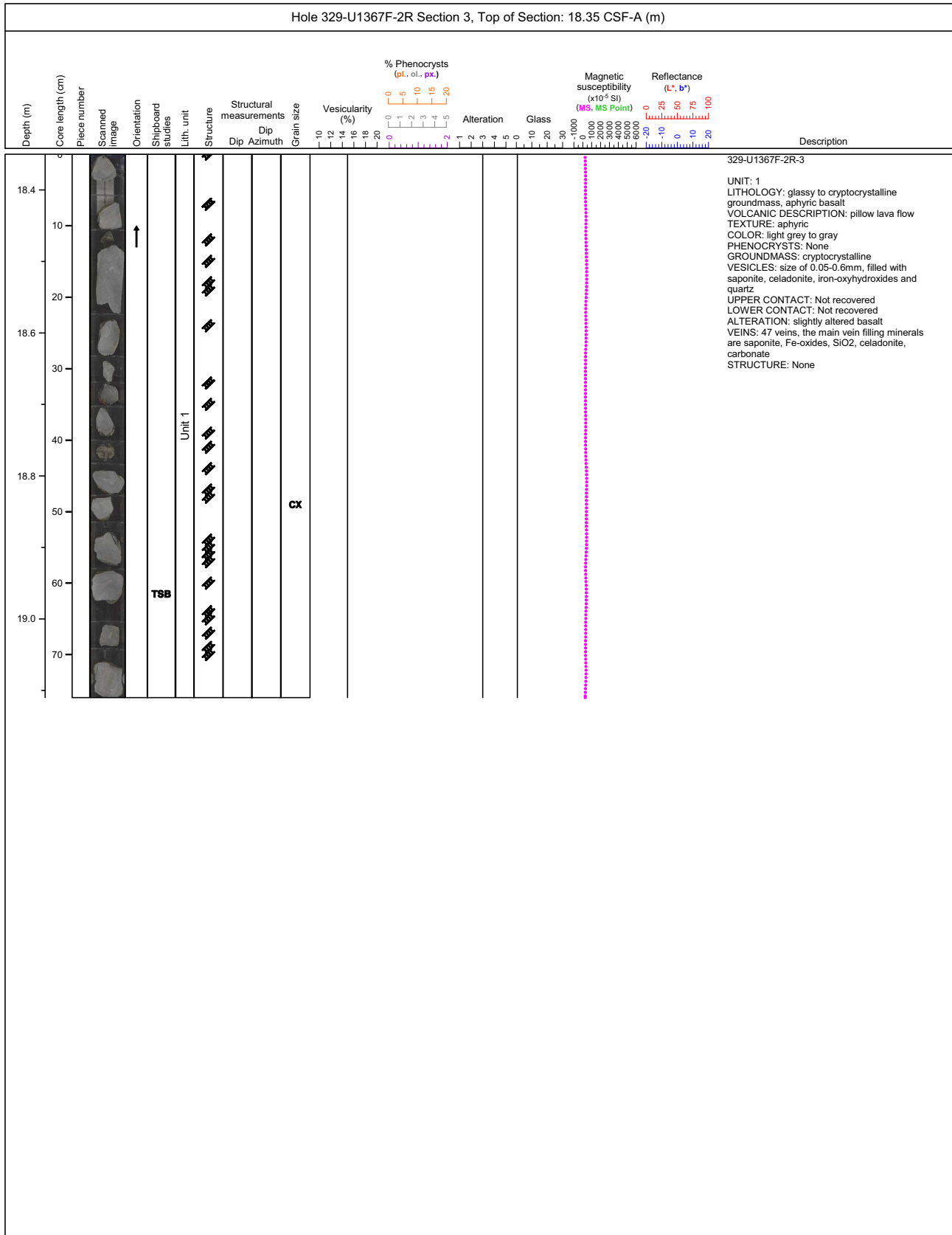


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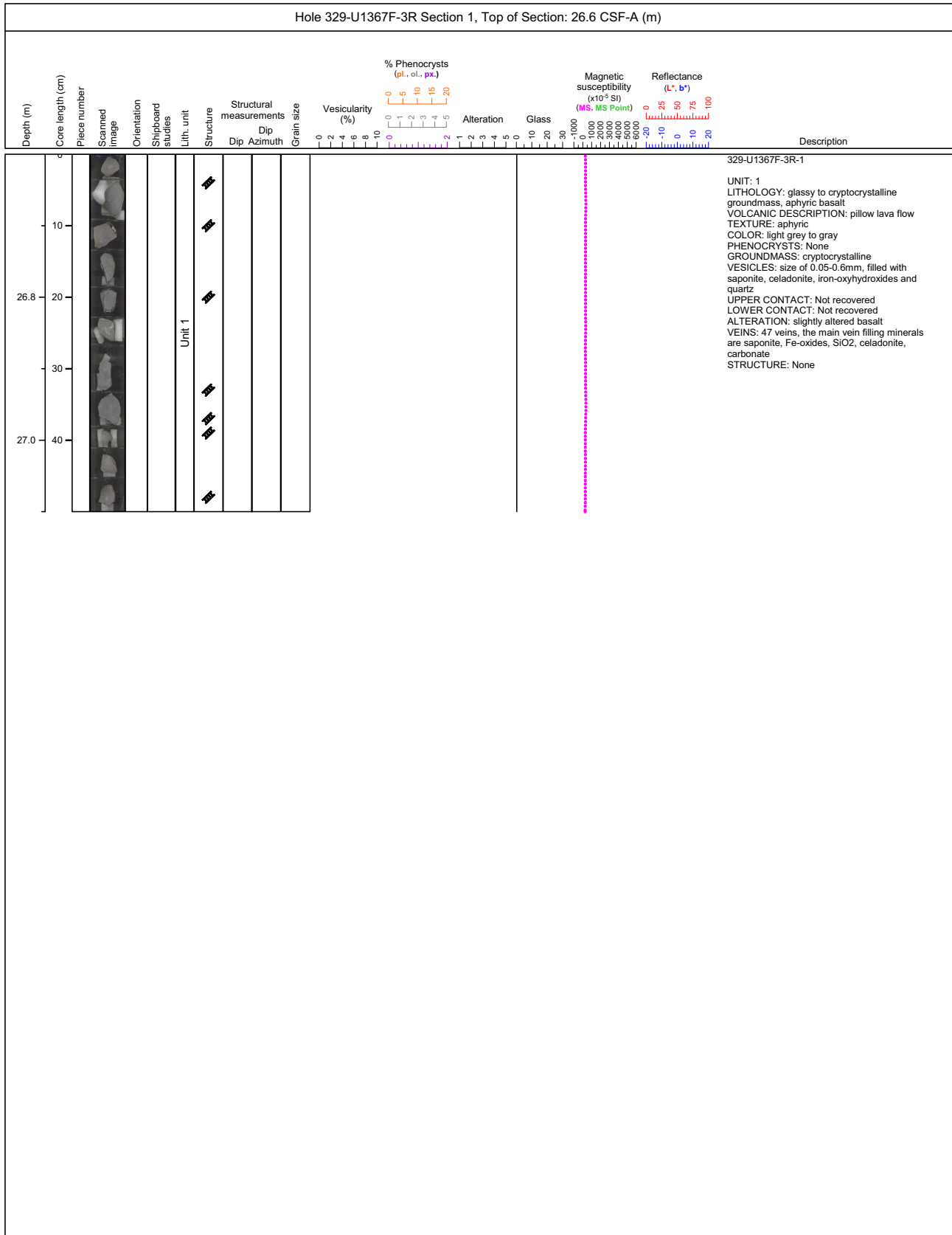




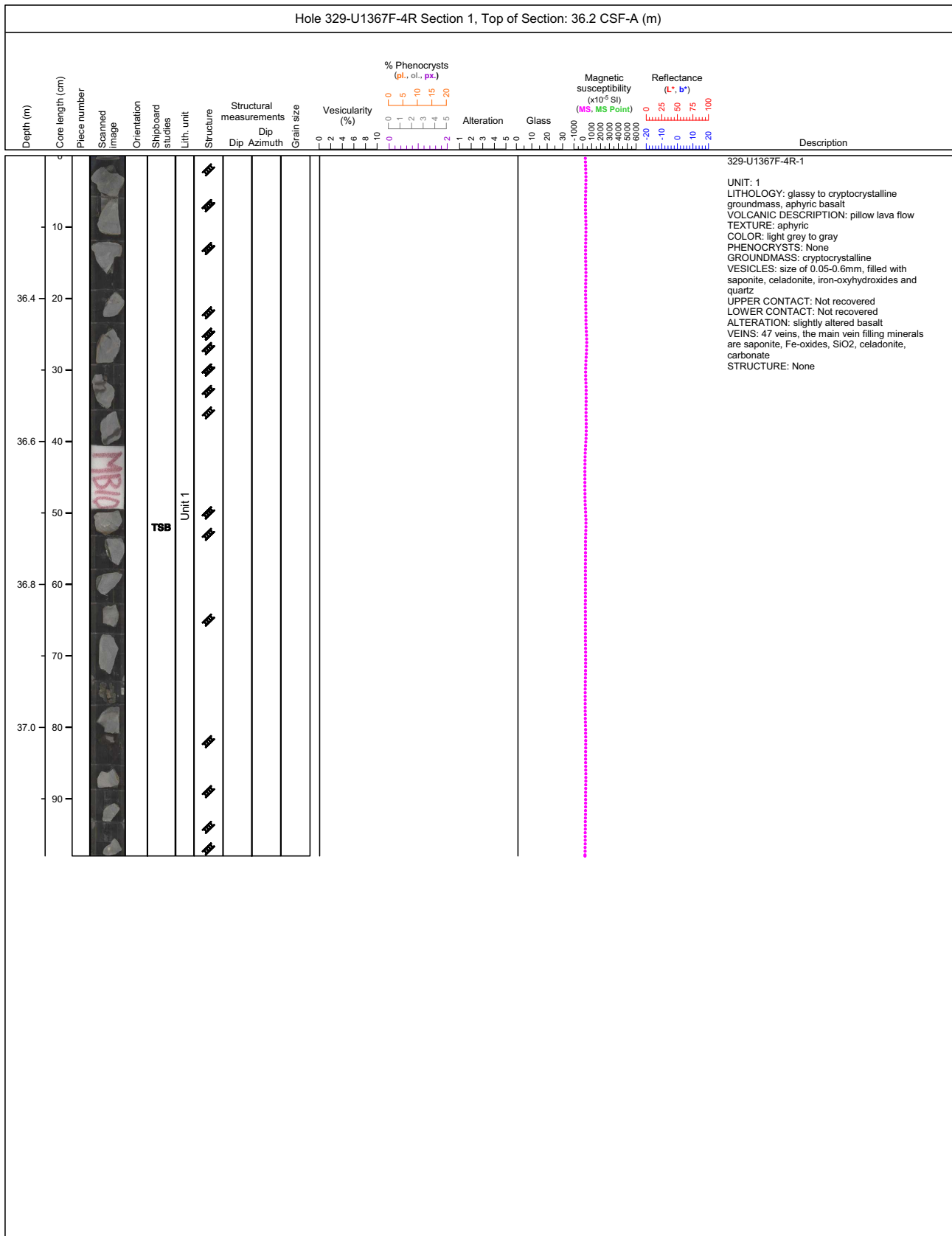
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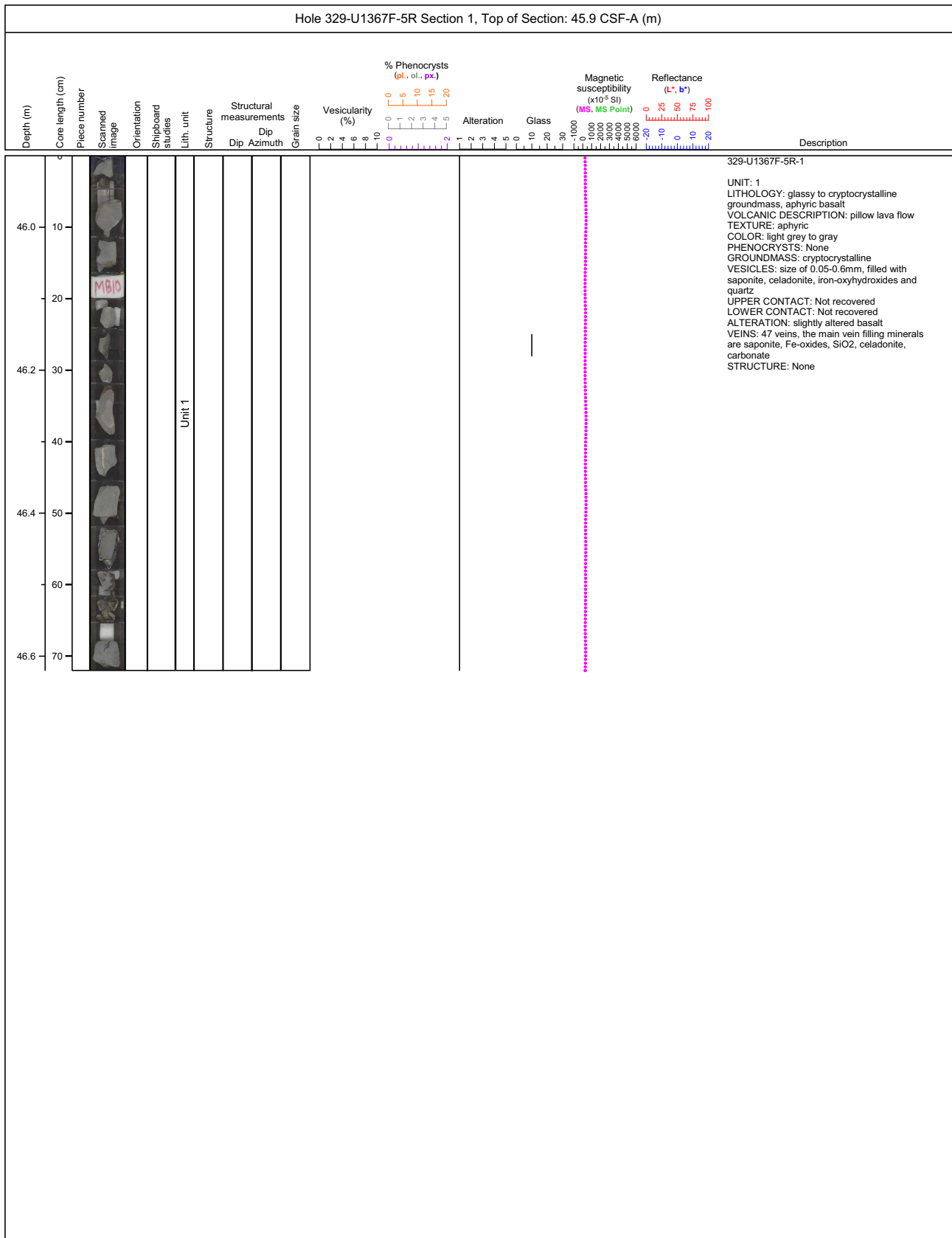
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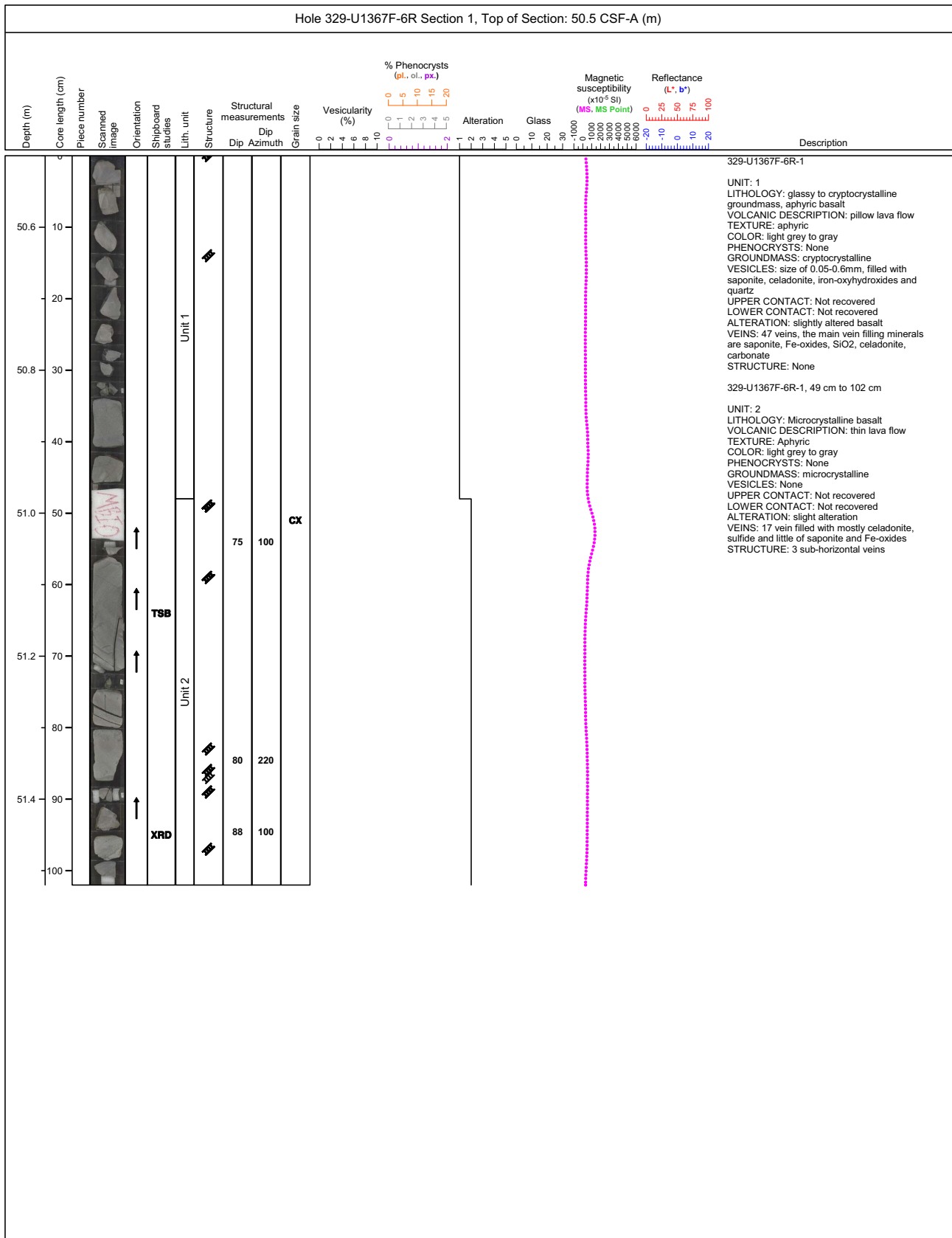
# Core Photo



# Core Photo



# Core Photo





Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Zeolite	Quartz	Volcanic glass	Coccolithophores	Foraminifera	Calcareous sponge spicules	Foraminifera
329	U1367	B	1	H	1	A	0	0.2	18	36	36	0.1	0	11	0	0	0
329	U1367	B	1	H	1	A	0.1	0.1	-	-	-	-	-	11	0	0	0
329	U1367	B	1	H	1	A	0.15	0.35	32	45	19	0.1	0	3	0.1	0	0
329	U1367	B	1	H	1	A	0.25	0.25	-	-	-	-	-	3	0.1	0	0
329	U1367	B	1	H	1	A	0.5	0.7	28	39	28	6	0	1	0	0	0
329	U1367	B	1	H	1	A	0.6	0.6	-	-	-	-	-	1	0	0	0
329	U1367	B	1	H	1	A	0.9	1.1	26	36	36	0	0	3	0	0	0
329	U1367	B	1	H	1	A	1	1	-	-	-	-	-	3	0	0	0
329	U1367	B	1	H	1	A	1.2	1.4	17	66	17	0.1	0	1	0	0	0
329	U1367	B	1	H	1	A	1.3	1.3	-	-	-	-	-	1	0	0	0
329	U1367	B	1	H	2	A	1.65	1.85	25	50	25	0	0	0.1	0	0	0
329	U1367	B	1	H	2	A	1.75	1.75	-	-	-	-	-	0.1	0	0	0
329	U1367	B	1	H	3	A	3.15	3.35	27	45	27	0	0	0.1	0	0	0
329	U1367	B	1	H	3	A	3.25	3.25	-	-	-	-	-	0.1	0	0	0
329	U1367	B	1	H	3	A	3.9	4.1	20	47	33	0	0	0.1	0	0	0
329	U1367	B	1	H	3	A	4	4	-	-	-	-	-	0.1	0	0	0
329	U1367	B	1	H	4	A	4.65	4.85	39	56	6	0	0	0.1	0	0	0
329	U1367	B	1	H	4	A	4.75	4.75	-	-	-	-	-	0.1	0	0	0
329	U1367	B	1	H	4	A	5.15	5.35	41	59	0	0	0	0.1	0	0	0
329	U1367	B	1	H	4	A	5.25	5.25	-	-	-	-	-	0.1	0	0	0
329	U1367	B	2	H	1	A	5.45	5.65	24	52	0	0	0	24	0	0	0
329	U1367	B	2	H	1	A	5.55	5.55	-	-	-	-	-	24	0	0	0
329	U1367	B	2	H	1	A	6.15	6.35	3	8	0	0	0	83	0	6	0
329	U1367	B	2	H	1	A	6.25	6.25	-	-	-	-	-	83	0	6	0
329	U1367	B	2	H	2	A	7.6	7.8	0	0	0	0	0	60	0	0	0
329	U1367	B	2	H	2	A	7.7	7.7	-	-	-	-	-	60	0	0	0
329	U1367	B	2	H	2	A	7.9	8.1	0	4	0	0	0	85	0	11	0
329	U1367	B	2	H	2	A	8	8	-	-	-	-	-	85	0	11	0
329	U1367	B	2	H	3	A	9.8	10	0	10	0	0	0	86	0	4	0
329	U1367	B	2	H	3	A	9.9	9.9	-	-	-	-	-	86	0	4	0
329	U1367	B	2	H	4	A	10.65	10.85	0	7	0	0	0	87	0	7	0
329	U1367	B	2	H	4	A	10.75	10.75	-	-	-	-	-	87	0	7	0
329	U1367	B	2	H	5	A	12	12.2	0	20	0	0	0	77	0	3	0
329	U1367	B	2	H	5	A	12.1	12.1	-	-	-	-	-	77	0	3	0
329	U1367	B	2	H	6	A	12.92	13.12	0	22	0	0	0	74	0	3	1
329	U1367	B	2	H	6	A	13.02	13.02	-	-	-	-	-	74	0	3	1
329	U1367	B	3	H	1	A	13.45	13.65	0	11	0	0	0	84	4	0	0
329	U1367	B	3	H	1	A	13.55	13.55	-	-	-	-	-	84	4	0	0
329	U1367	B	3	H	1	A	13.85	14.05	0	12	0	0	0	82	6	0	0
329	U1367	B	3	H	1	A	13.95	13.95	-	-	-	-	-	82	6	0	0
329	U1367	B	3	H	2	A	15.69	15.89	0	8	0	0	0	82	10	0	0
329	U1367	B	3	H	2	A	15.79	15.79	-	-	-	-	-	82	10	0	0
329	U1367	B	3	H	3	A	17.45	17.65	0	18	0	0	0	70	12	0	0
329	U1367	B	3	H	3	A	17.55	17.55	-	-	-	-	-	70	12	0	0
329	U1367	B	3	H	5	A	19.52	19.72	0	18	0	0	0	78	4	0	0
329	U1367	B	3	H	5	A	19.62	19.62	-	-	-	-	-	78	4	0	0
329	U1367	B	3	H	5	A	19.7	19.9	0	14	0	0	0	78	8	0	0
329	U1367	B	3	H	5	A	19.8	20	58	0	0	0	21	21	0	0	0
329	U1367	B	3	H	5	A	19.8	19.8	-	-	-	-	-	78	8	0	0
329	U1367	B	3	H	5	A	19.9	19.9	-	-	-	-	-	21	0	0	0
329	U1367	B	3	H	5	A	20.53	20.73	0	6	0	0	0	82	12	0	0
329	U1367	B	3	H	5	A	20.63	20.63	-	-	-	-	-	82	12	0	0
329	U1367	B	3	H	6	A	21.5	21.7	0	9	0	0	0	85	6	0	0
329	U1367	B	3	H	6	A	21.6	21.6	-	-	-	-	-	85	6	0	0
329	U1367	B	4	H	1	A	21.95	22.15	0	22	26	0	0	43	9	0	0
329	U1367	B	4	H	1	A	22.05	22.05	-	-	-	-	-	43	9	0	0



Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Zeolite	Coccolithophores	Foraminifera
329	U1367	C	1	H	1	SED	0.3	0.3	20	47	33	-	-
329	U1367	C	1	H	4	SED	4.7	4.7	9	87	4	-	-
329	U1367	C	1	H	5	SED	6.85	6.85	0	4	0	96	0
329	U1367	C	2	H	1	SED	7.4	7.4	0	5	0	95	0
329	U1367	C	2	H	1	SED	8.5	8.5	0	15	0	85	0
329	U1367	C	2	H	2	SED	9.1	9.1	0	2	0	93	5
329	U1367	C	2	H	5	SED	14.5	14.5	0	15	0	85	0
329	U1367	C	2	H	7	SED	16.5	16.5	0	14	0	80	6
329	U1367	C	3	H	1	SED	17.5	17.5	0	18	0	73	9
329	U1367	C	3	H	3	SED	20.1	20.1	0	24	0	71	5
329	U1367	C	3	H	4	SED	21.53	21.53	0	9	0	85	6
329	U1367	C	3	H	4	SED	22	22	0	8	0	85	7



Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Zeolite	Carbonates	Coccolithophores	Calcareous sponge spicule	Foraminifera
329	U1367	D	1	H	1	SED	0.2	0.2	25	50	25	0	-	-	-
329	U1367	D	1	H	4	SED	5.8	5.8	11	80	9	0	-	-	-
329	U1367	D	1	H	5	SED	7.22	7.22	0	7	2	0	91	0	0
329	U1367	D	2	H	1	SED	8.4	8.4	0	11	0	0	89	0	0
329	U1367	D	2	H	2	SED	9.85	9.85	0	49	0	0	49	2	0
329	U1367	D	2	H	3	SED	11.15	11.15	0	12	0	0	77	12	0
329	U1367	D	2	H	5	SED	14.15	14.15	0	19	0	0	74	7	0
329	U1367	D	2	H	6	SED	15.5	15.5	0	18	0	0	71	11	0
329	U1367	D	3	H	1	SED	18.05	18.05	0	26	0	0	69	5	0
329	U1367	D	3	H	2	SED	18.98	18.98	0	6	0	0	90	4	0.1
329	U1367	D	3	H	3	SED	20.7	20.7	0	28	0	0	69	3	0
329	U1367	D	3	H	4	SED	22.51	22.51	0	48	0	0	48	3	0
329	U1367	D	3	H	6	SED	25	25	16	80	0	3	0.1	0	0
329	U1367	D	3	H	CC	SED	25.16	25.16	0	26	0	0	74	0	0
329	U1367	D	4	H	CC	SED	25.23	25.23	14	71	24	0	14	0	0





Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Zeolite	Carbonates	Volcanic glass	Calcareous sponge spicule	Coccolithophores	Foraminifera
329	U1367	E	1	H	1	A	0	0.2	24	48	24	0	0	0.1	5	0
329	U1367	E	1	H	1	A	0.05	0.25	22	43	22	0	0	4	9	0
329	U1367	E	1	H	1	A	0.1	0.3	23	45	32	0	0	0	0	0
329	U1367	E	1	H	1	A	0.1	0.1	-	-	-	-	-	0.1	5	0
329	U1367	E	1	H	1	A	0.15	0.35	23	45	32	0	0	0	0	0
329	U1367	E	1	H	1	A	0.15	0.15	-	-	-	-	-	4	9	0
329	U1367	E	1	H	1	A	0.2	0.4	31	47	22	0	0	0	0.1	0
329	U1367	E	1	H	1	A	0.3	0.3	-	-	-	-	-	0	0.1	0
329	U1367	E	1	H	2	A	2.3	2.5	29	57	14	0.1	0	0	0	0
329	U1367	E	1	H	3	A	4.3	4.5	40	40	17	3	0	0	0	0
329	U1367	E	1	H	4	A	5.1	5.3	42	56	3	0.1	0	0	0	0
329	U1367	E	1	H	5	A	6.52	6.72	0	9	0	0	0	0	90	0
329	U1367	E	1	H	5	A	6.62	6.62	-	-	-	-	-	0	90	0
329	U1367	E	2	H	1	A	6.72	6.92	14	57	0	0	0	0	29	0
329	U1367	E	2	H	1	A	6.82	6.82	-	-	-	-	-	0	29	0
329	U1367	E	2	H	1	A	7.4	7.6	0	5	0	0	0	2	93	0
329	U1367	E	2	H	1	A	7.5	7.5	-	-	-	-	-	2	93	0
329	U1367	E	2	H	2	A	9.3	9.5	0	17	0	0	0	0	83	0
329	U1367	E	2	H	2	A	9.4	9.4	-	-	-	-	-	0	83	0
329	U1367	E	2	H	3	A	10.3	10.5	0	2	0	0	0	2	96	0
329	U1367	E	2	H	3	A	10.4	10.4	-	-	-	-	-	2	96	0
329	U1367	E	2	H	3	A	10.65	10.85	0	5	0	0	0	3	93	0
329	U1367	E	2	H	3	A	10.75	10.75	-	-	-	-	-	3	93	0
329	U1367	E	2	H	5	A	12.65	12.85	0	11	0	0	0	5	84	0
329	U1367	E	2	H	5	A	12.75	12.75	-	-	-	-	-	5	84	0
329	U1367	E	2	H	5	A	13	13.2	0	16	0	0	0	1	82	0
329	U1367	E	2	H	5	A	13.1	13.1	-	-	-	-	-	1	82	0
329	U1367	E	2	H	5	A	13.43	13.63	0	9	0	0	0	0	91	0
329	U1367	E	2	H	5	A	13.53	13.53	-	-	-	-	-	0	91	0
329	U1367	E	2	H	6	A	14.3	14.5	0	19	0	0	0	3	79	0
329	U1367	E	2	H	6	A	14.4	14.4	-	-	-	-	-	3	79	0
329	U1367	E	3	H	1	A	17.3	17.5	5	16	0	0	0	2	76	0.1
329	U1367	E	3	H	1	A	17.4	17.4	-	-	-	-	-	2	76	0.1
329	U1367	E	3	H	3	A	19.8	20	3	28	0	0	0	2	66	0
329	U1367	E	3	H	3	A	19.9	19.9	-	-	-	-	-	2	66	0
329	U1367	E	3	H	5	A	23	23.2	6	47	0	0	0	0	47	0
329	U1367	E	3	H	5	A	23.1	23.1	-	-	-	-	-	0	47	0
329	U1367	E	3	H	5	A	23.32	23.52	10	50	0	0	30	0	10	0
329	U1367	E	3	H	5	A	23.42	23.42	-	-	-	-	-	0	10	0
329	U1367	E	3	H	6	A	23.95	24.15	0	42	0	0	0	0.1	58	0
329	U1367	E	3	H	6	A	24.05	24.05	-	-	-	-	-	0.1	58	0



**Thin section:** 329-U1367B-4H-1-W 21/31-TS\_40  
**Depth CSF-A (m):** 22.21-22.31  
**Rock name:** aphyric basalt  
**Grain size:** cryptocrystalline  
**Texture:** subophitic  
**Where sampled:** Core catcher, sediment basement interface

Primary mineralogy	Percent present	Percent original	Size		mode	Shape	Comments
			min	max			
<b>Phenocrysts</b>							
Plagioclase	0.5	0.3	0.1			subhedral	relatively uncorroded given levels of alteration within groundmass. Only a few phenocrysts so aphyric - very high alteration.
<b>Groundmass/matrix</b>							
Plagioclase1	65	35	<0.1	0.1		bladed	original groundmass is almost entirely altered, some...
Plagioclase2	60	30	<0.1	0.1		bladed	plagioclase exhibit spinifex texture.
Glass groundmass	15						Glass is altered to saponite and iron -oxyhydroxides - glassy margin is gradational, however due to intense alteration the point at which the groundmass becomes glassy is obscured.
Pyroxene							Pyroxene is obliterated by saponite and Fe-ox
Olivines	<0.1	0	0.1			euhedral	only one olivine identified by sphene proximity
Opaques	1.5	0		<0.1		anhedral	all primary opaques have been replaced by Fe-ox

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite1	45					Near Complete replacement of pyroxene and any other primary
Saponite2	50					phases. Plagioclase is partly replaced - only larger bladed crystals remain
FeOx1	20					
FeOx2	35					Complete replacement of pyroxene and any other primary phases. Plagioclase is partly replaced - only larger bladed crystals remain
Celadonite1	3					
Celadonite2	5					
Oxides1	1.5					
Oxides2	2.5					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	2	irregular	0.1	<0.1	0.1	35	occurs near glassy and chill margin edges
V2	3	irregular	0.2	<0.1	0.1	20	occurs near glassy and chill margin edges
V3	2	irregular	0.1	<0.1	0.1	15	occurs near glassy and chill margin edges
V4	2	irregular	0.1	<0.1	0.1	20	occurs near glassy and chill margin edges
V5	3	irregular	0.2	<0.1	0.1	10	occurs near glassy and chill margin edges
V6	3	irregular	0.2	<0.1	0.1	45	occurs near glassy and chill margin edges

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			
VN1	branched	2	0.1		Quartz	Fracture fill
VN2	curved	1	0.2		Saponite	Fe rich saponite
VN3	branched	1	0.1		Fe-ox	Fracture fill
VN4	planar	1	0.2		Saponite	Cooling fracture fill

**Comments:** Similar to the glassy piece, this cryptocrystalline pillow? basalt has undergone high alteration. Groundmass has been almost completely replaced by saponite and iron oxyhydroxide. The presence of sphene and olivine (replaced) is noted... very dark peices represent aphyric cryptocrystalline to glassy pillow? basalt that is very highly altered. groundmass textures are almost totally obliterated with only feldspar remaining. Some spinifex textures can be seen (either remnant groundmass or phyllosilicate crystal structure). Groundmass may have been sub-ophitic?. Alteration is dominated by saponite and Fe-ox. Irregular saponite and quartz-filled vesicles are present towards the glassy rim



**Thin section:** 329-U1367F-2R-3-W 60/63-TS\_41  
**Depth CSF-A (m):** 18.95-18.98  
**Rock name:** aphyric basalt  
**Grain size:** cryptocrystalline  
**Texture:** spinifex  
**Where sampled:** pillow basalt

				Size				
Primary mineralogy	Percent present	Percent original	min	max	mode	Shape	Comments	
<b>Phenocrysts</b>								
Plagioclase	0.5	0.5	0.4					
<b>Groundmass/matrix</b>								
Plagioclase	10	10		0.3		needle		
Pyroxene	3	3		0.04	0.04			
Olivines	2	1.5		0.04				
				Size				
Secondary mineralogy	Percent		min	max	mode	Replacing/ filling	Comments	
Saponite	<0.01						only one saponite replacing groundmass	
Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments	
V1	<0.01	rounded	0.35	0.35	0.35		only one saponite vesicle	
Veins	Shape	Generation	Avg. thickness (mm)			Infilling	Comments	
<b>Comments:</b> very slightly altered basalt, most olivine are preserved								



**Thin section:** 329-U1367F-4R-1-W 51/53-TS\_43  
**Depth CSF-A (m):** 36.71-36.73  
**Rock name:** aphyric basalt  
**Grain size:** microcrystalline  
**Texture:** intersertal  
**Where sampled:** pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
<b>Phenocrysts</b>							
Plagioclase	1	1	0.4				
<b>Groundmass/matrix</b>							
Plagioclase	15	20		0.15		lath	
Pyroxene	12	15					
Opaques	5	5.0		0.30		irregular	

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite	1					saponite replaces the groundmass
FeOx	1					
Celadonite	3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			
VN1	branched		0.2		celadonite, Fe-ox	
VN2	planar		0.3		celadonite	

**Comments:** Moderately altered, alteration halo exists on the margins



Thin section: 329-U1367F-6R-1-W 63/65-TS\_42  
 Depth CSF-A (m): 51.13-51.15  
 Rock name: aphyric basalt  
 Grain size: microcrystalline  
 Texture: intersertal  
 Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
<b>Phenocrysts</b>							
Plagioclase	<1	<1	0.2			lath	
<b>Groundmass/matrix</b>							
Plagioclase	20	20		0.15		lath	
Pyroxene	15	15					
Olivine	<1	<1					
Opagues	7	7		0.2			

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		

Vesicles	Modal	Shape	Size			Fill percent	Comments
			max	min	mode		

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)	(mm)		

Comments: Obvious magma quench margin, slightly altered basalt, without vesicle.