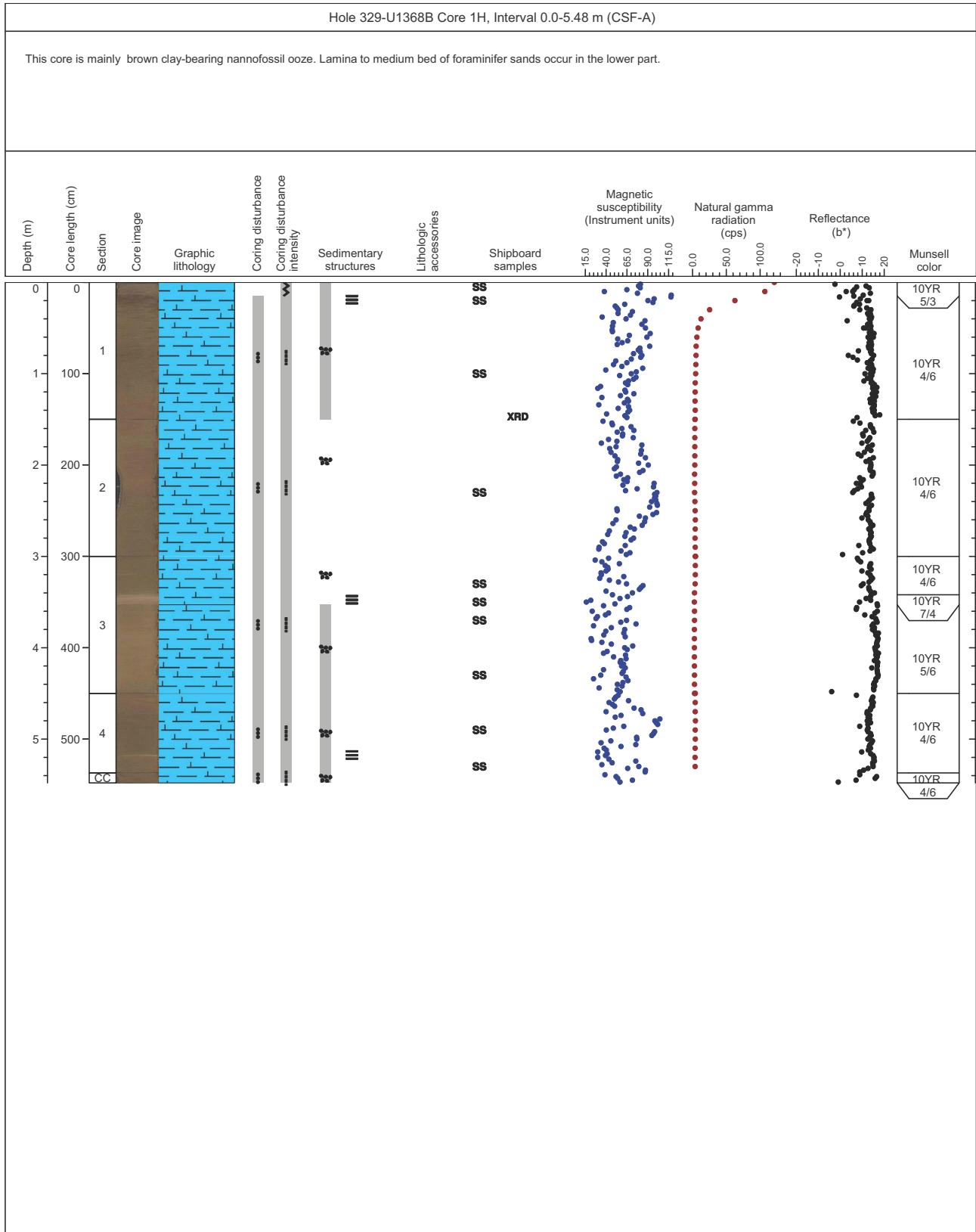
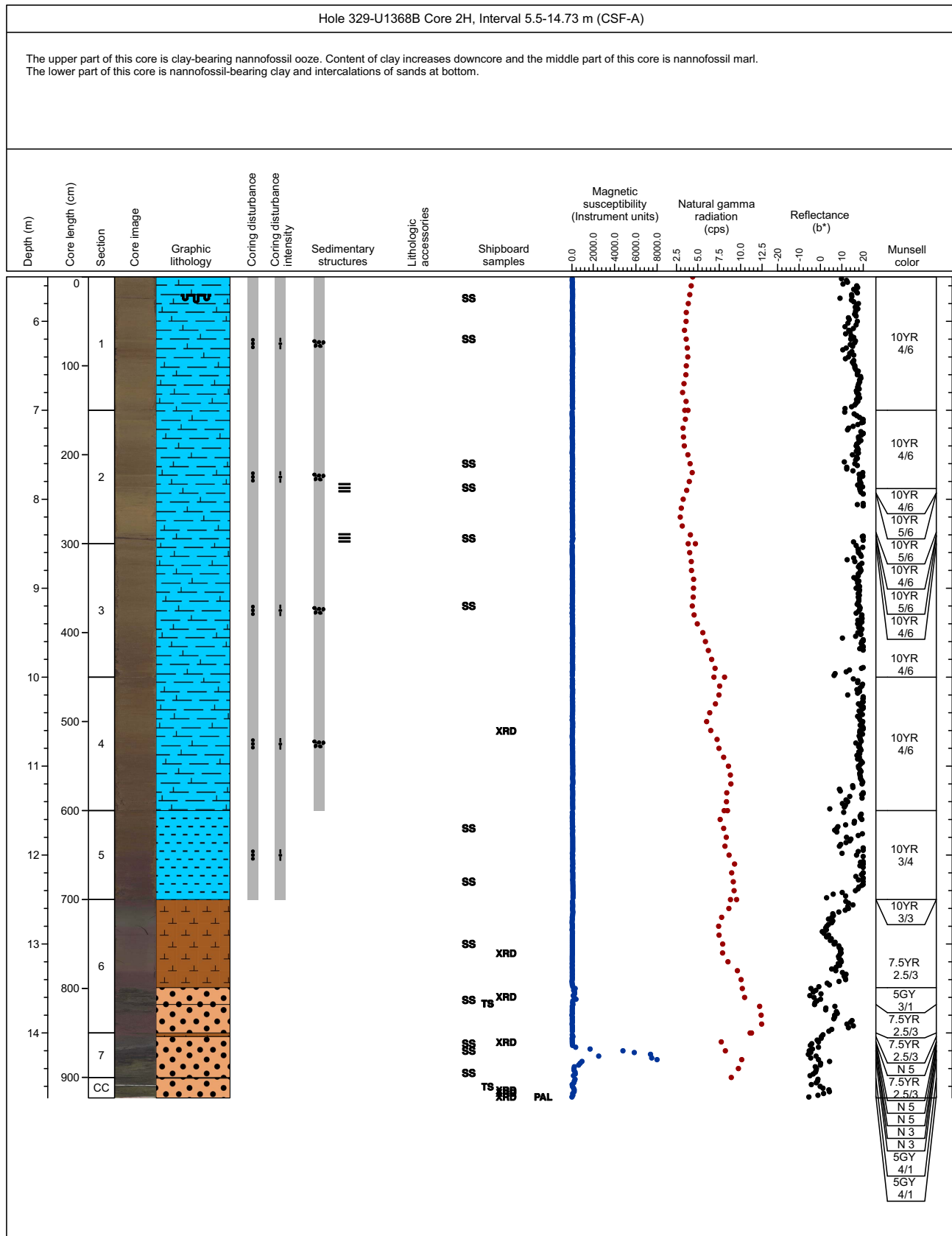


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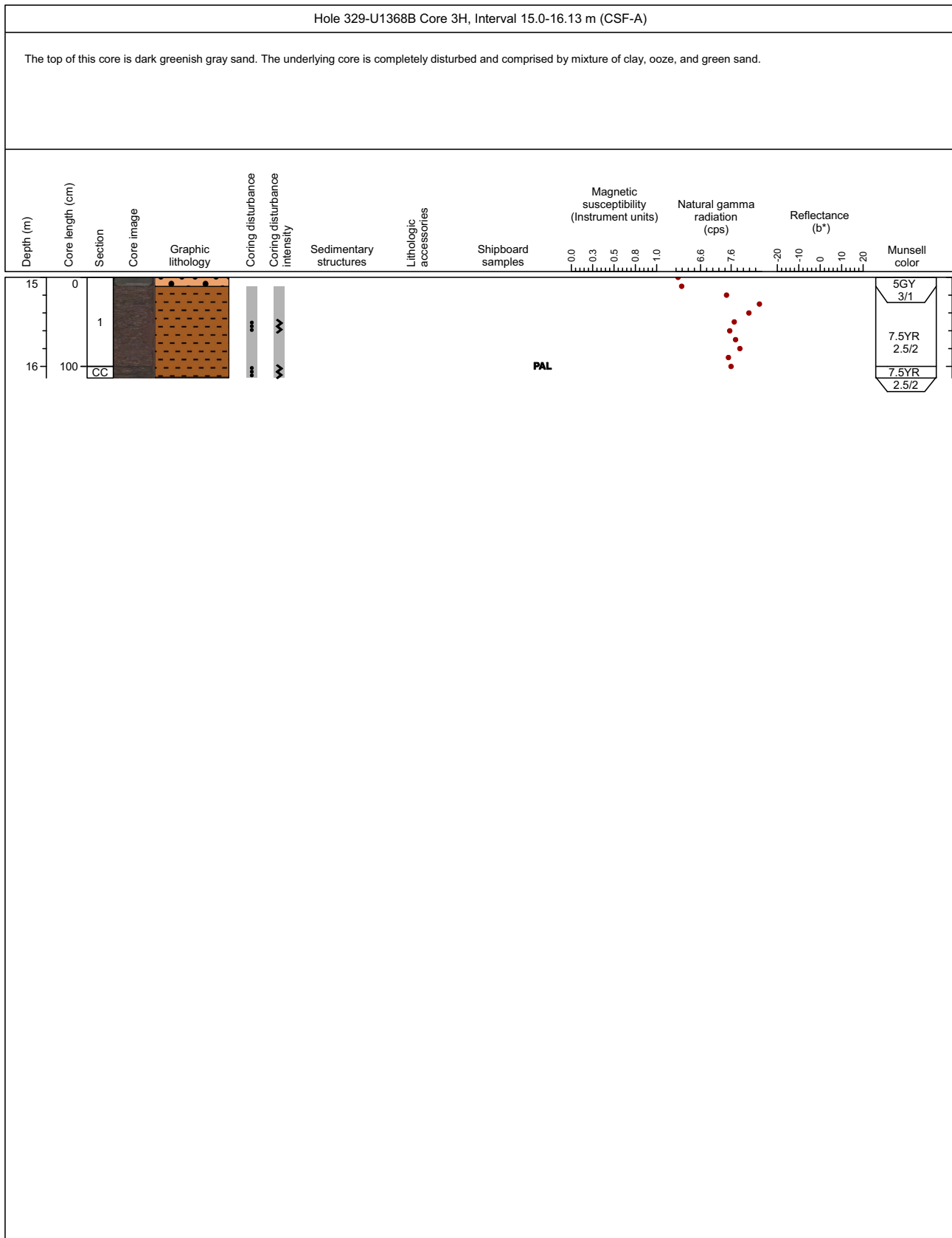
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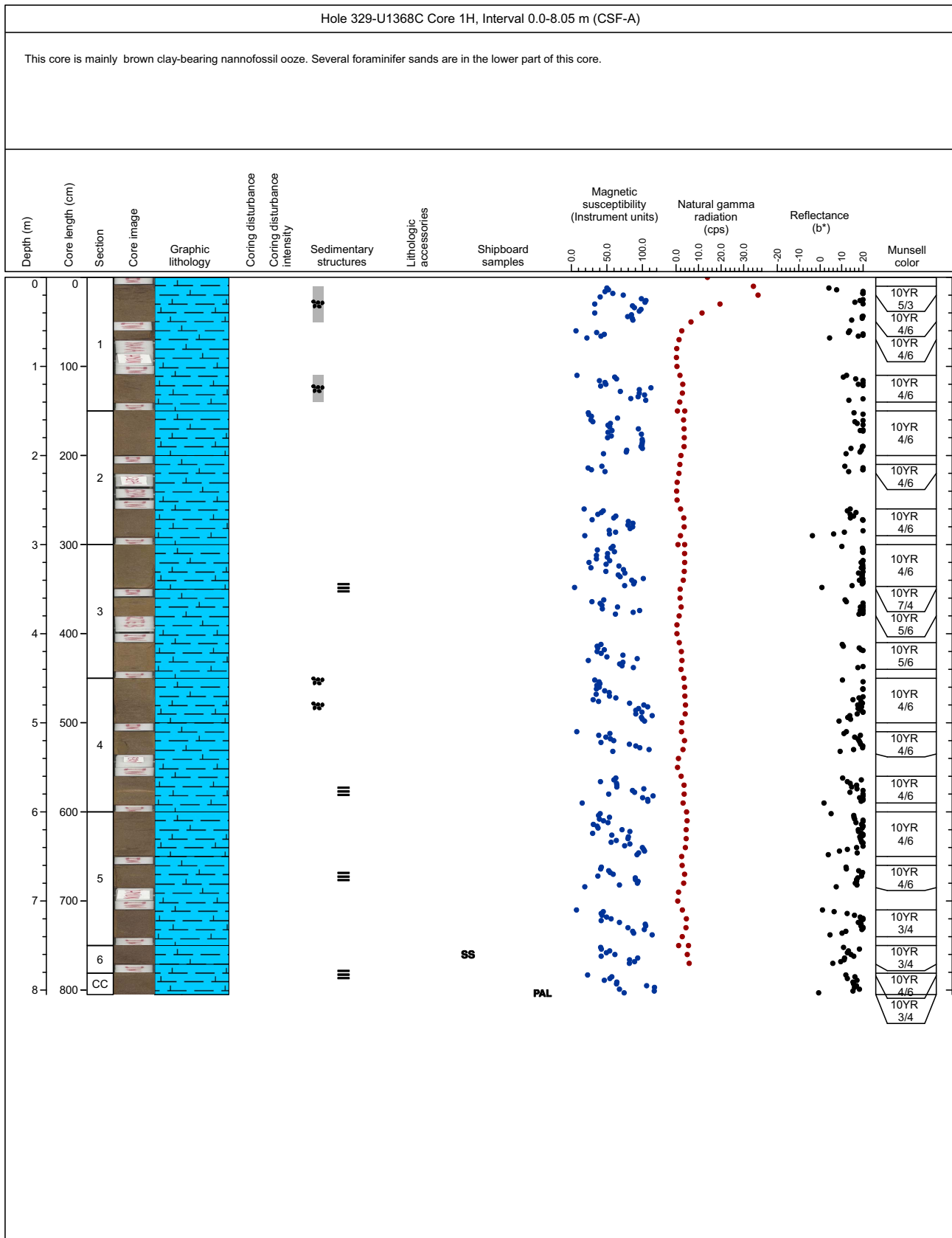
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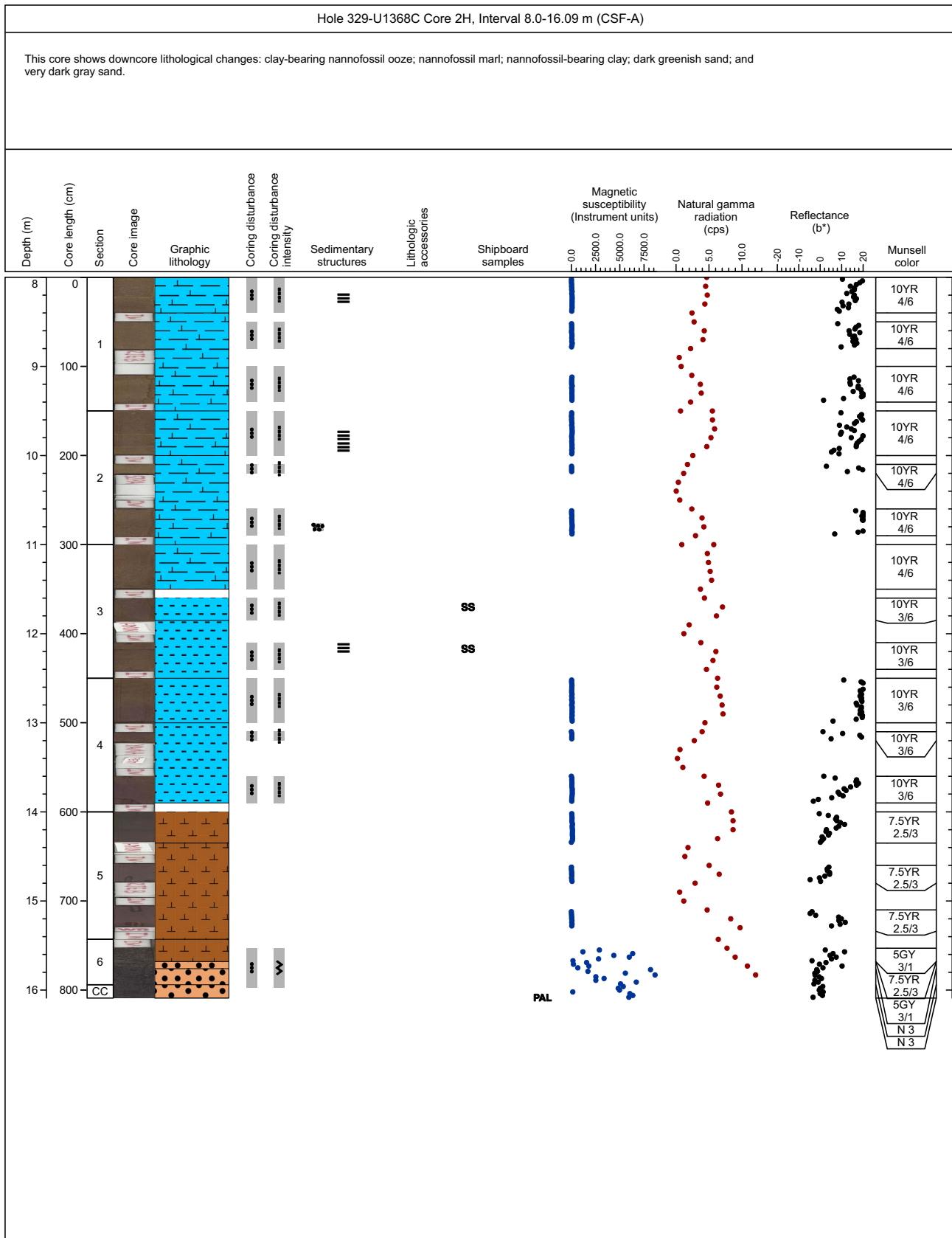
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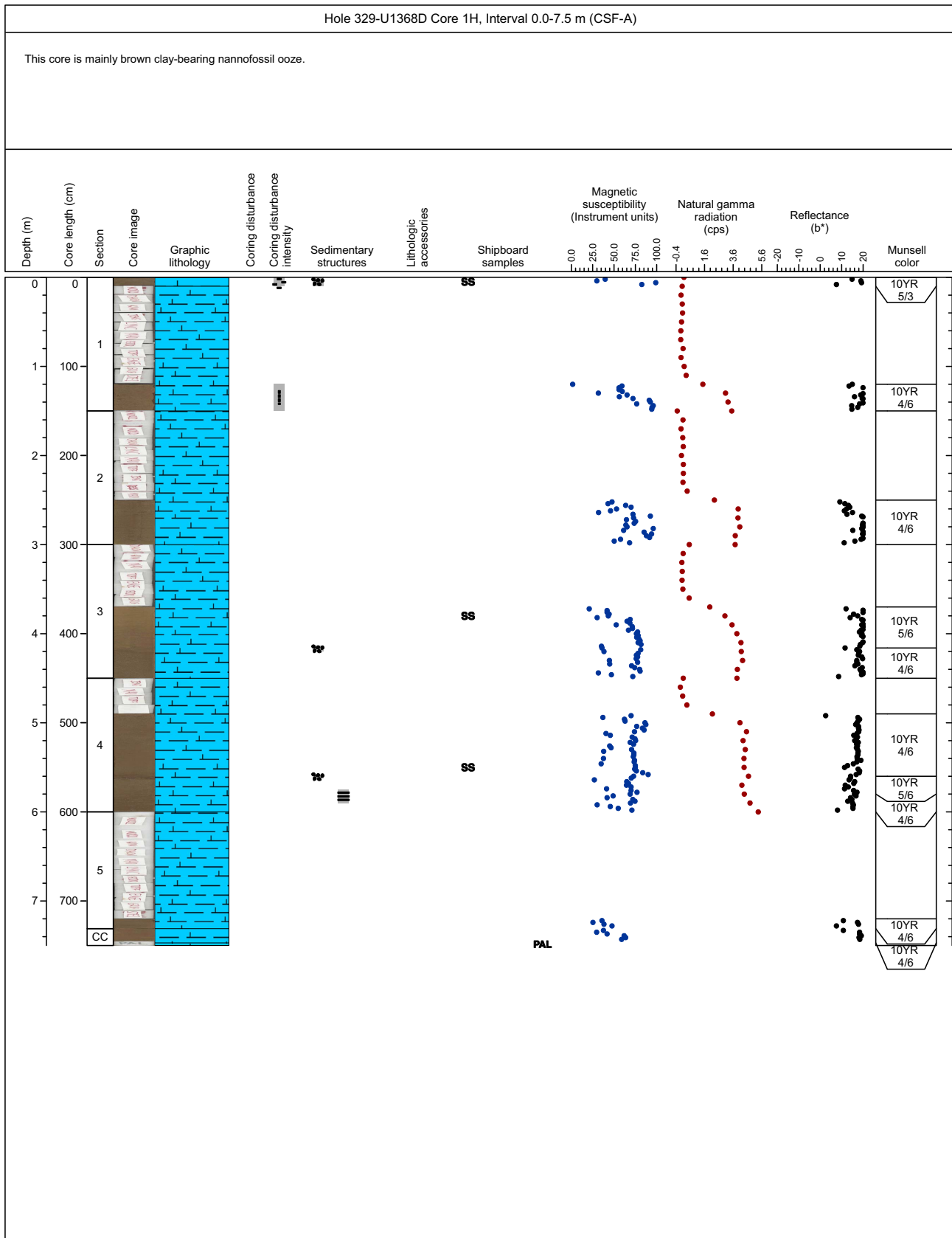
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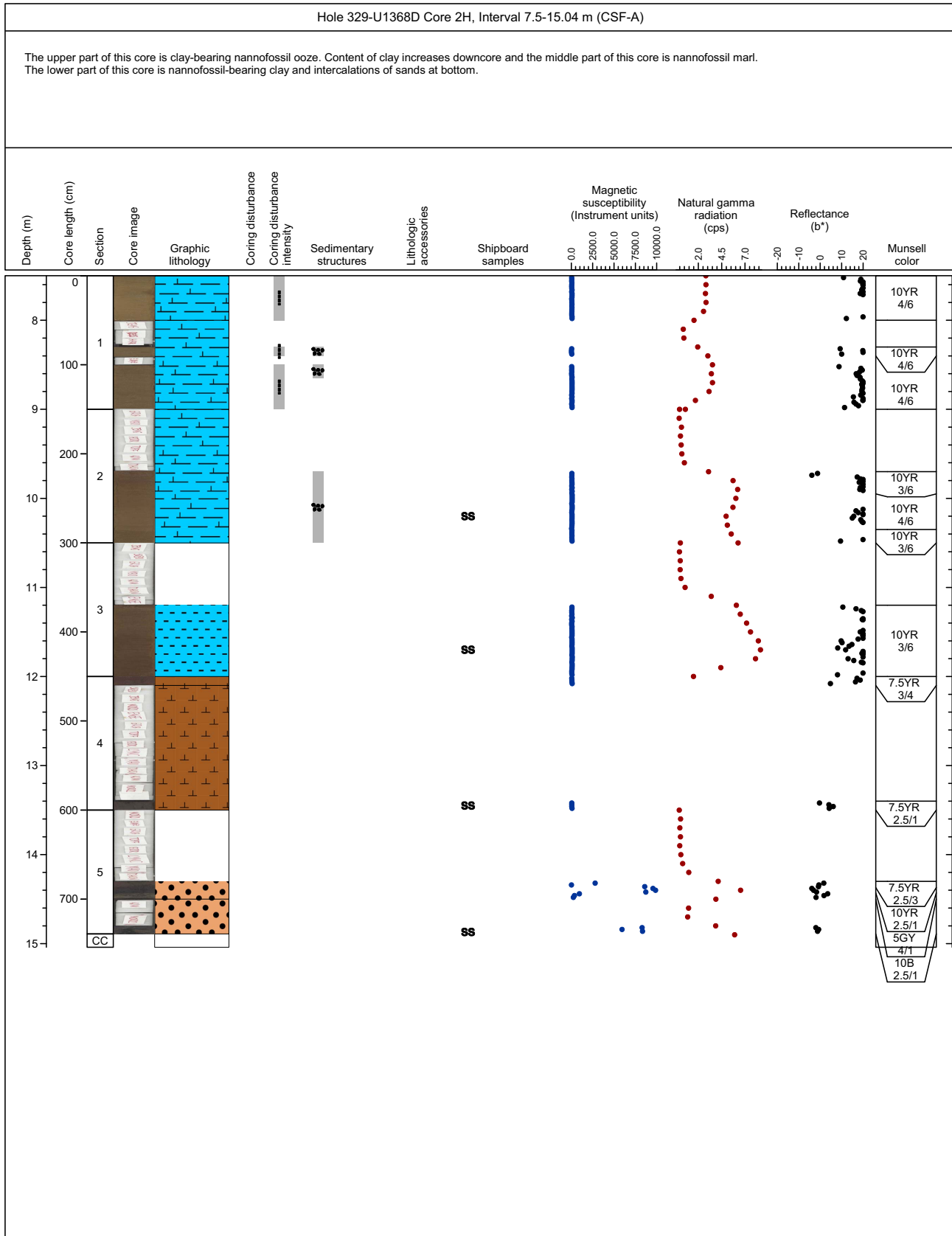
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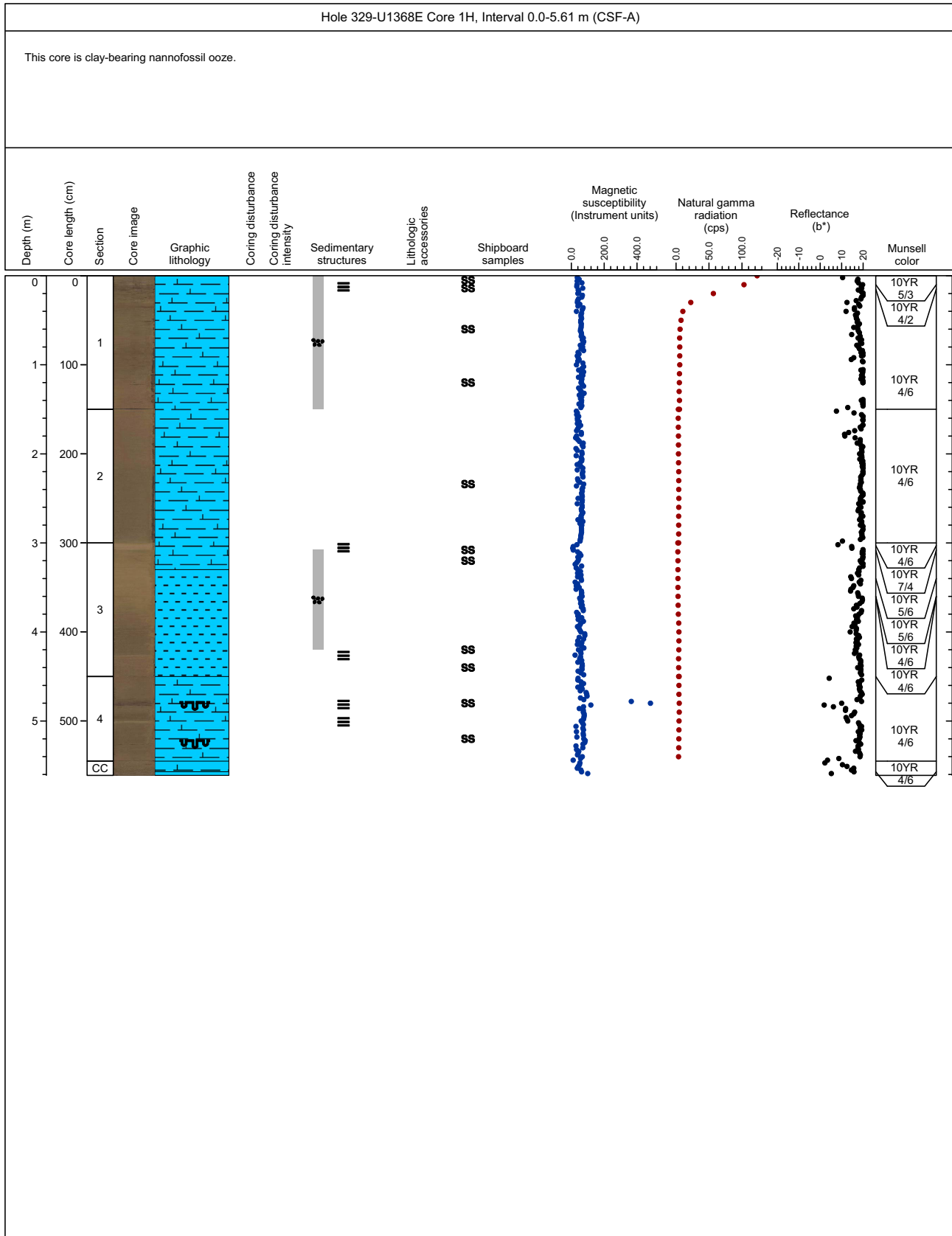
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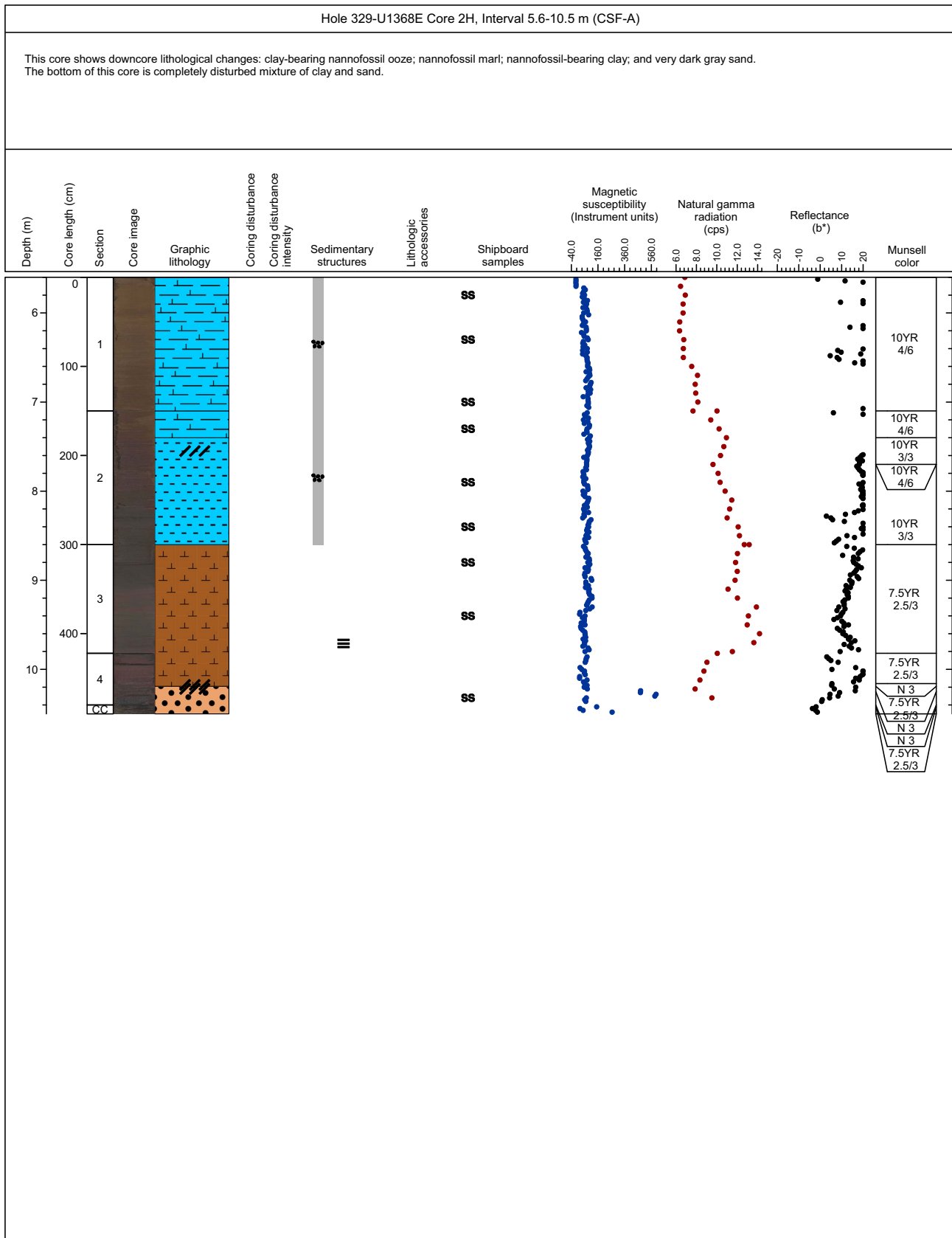
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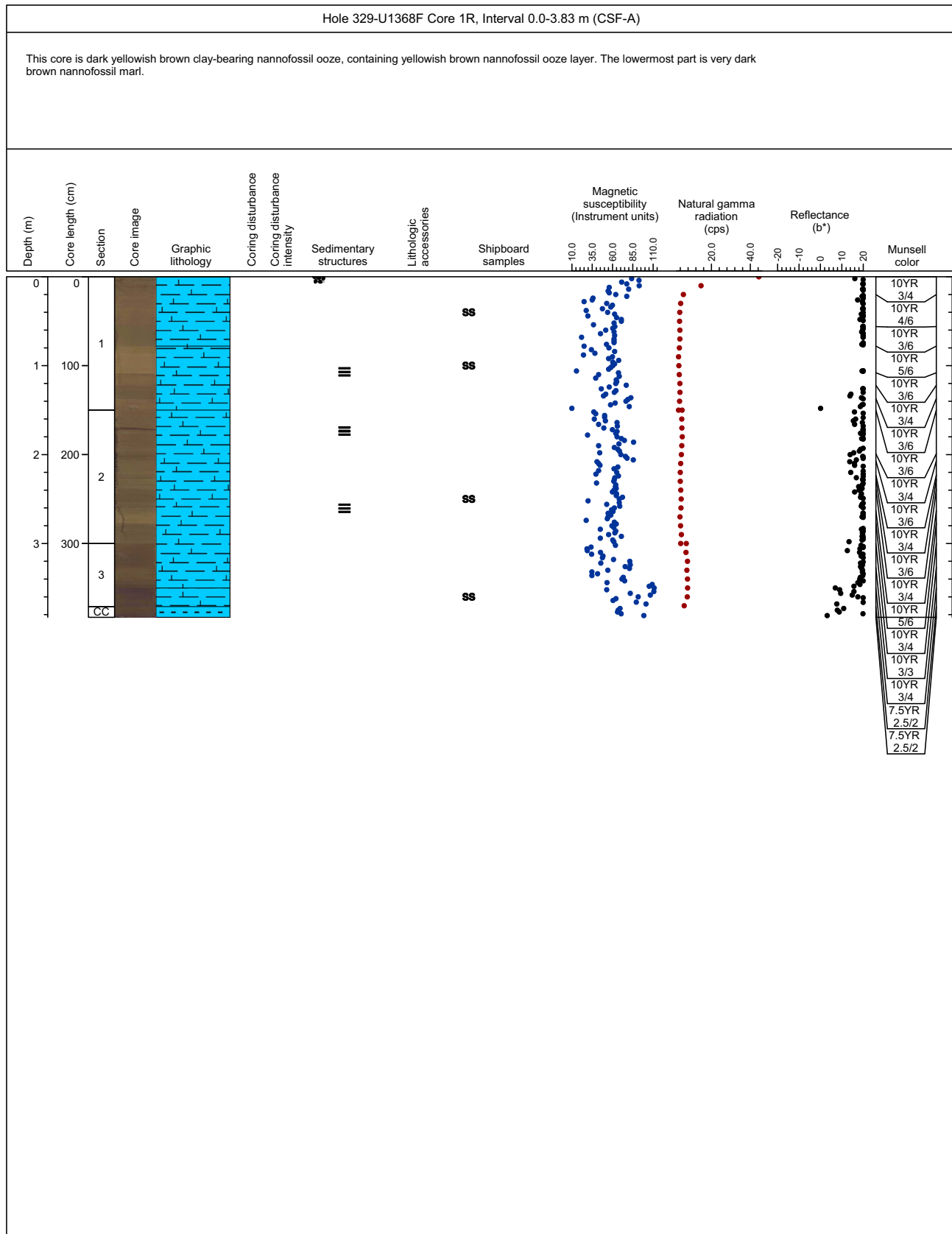
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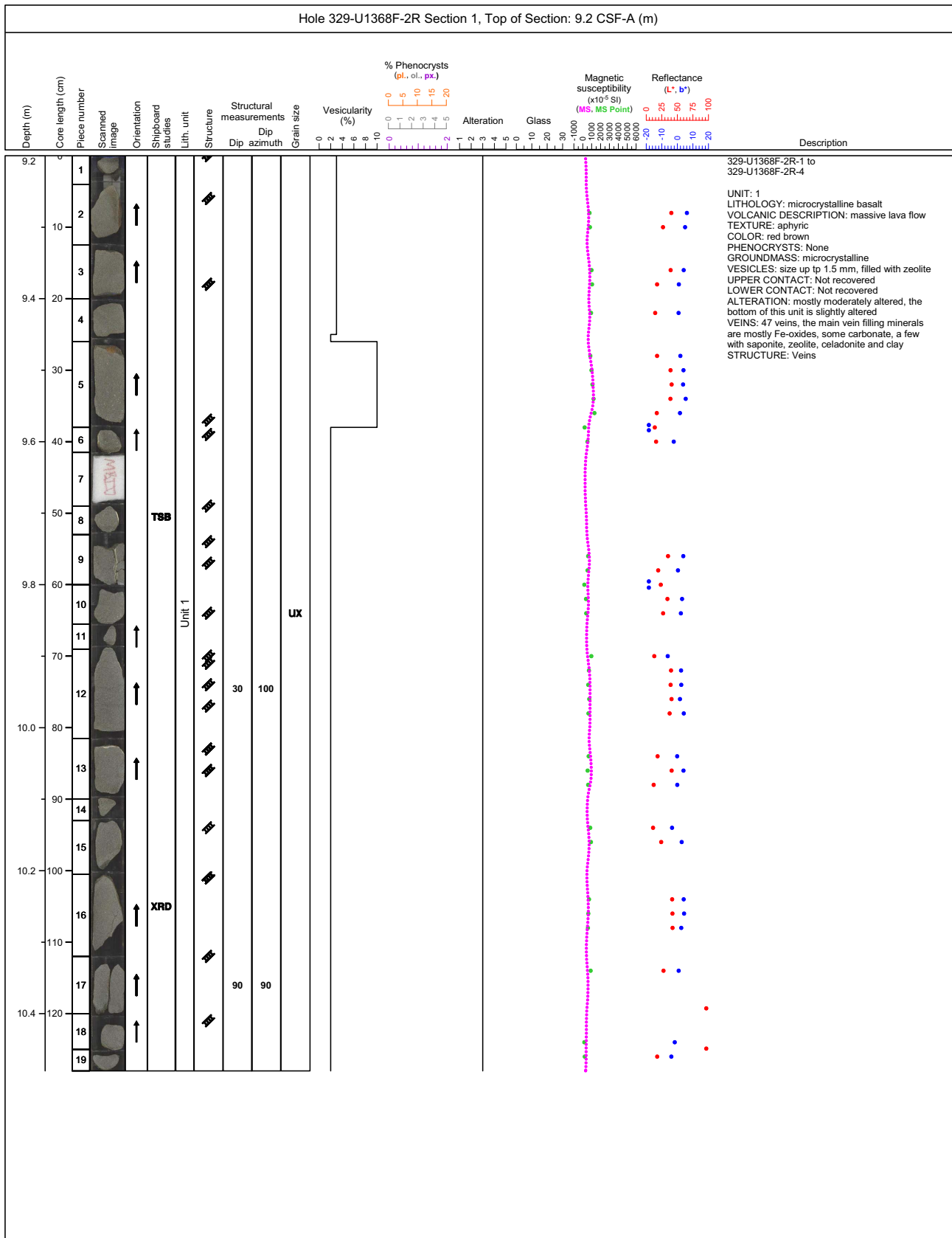
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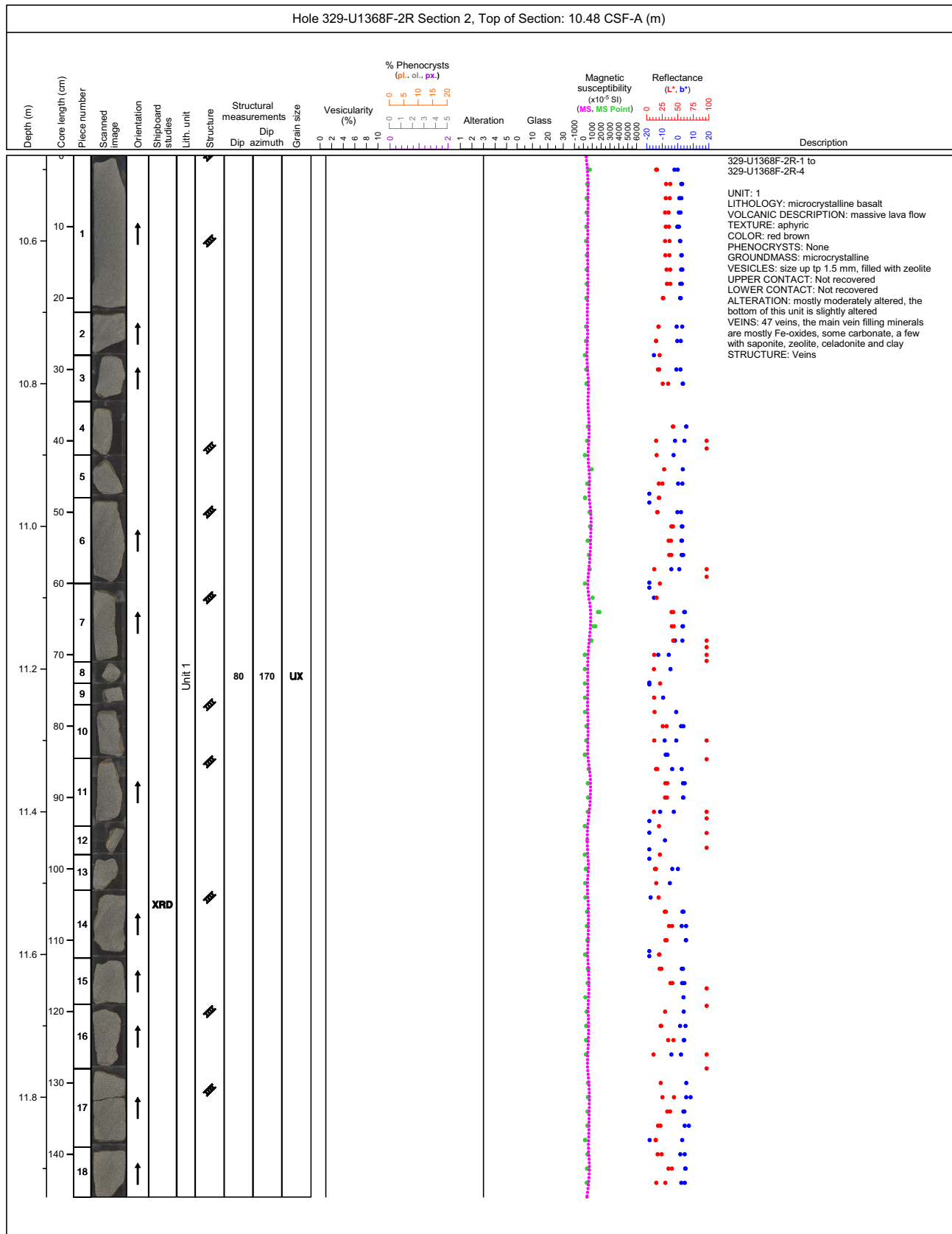
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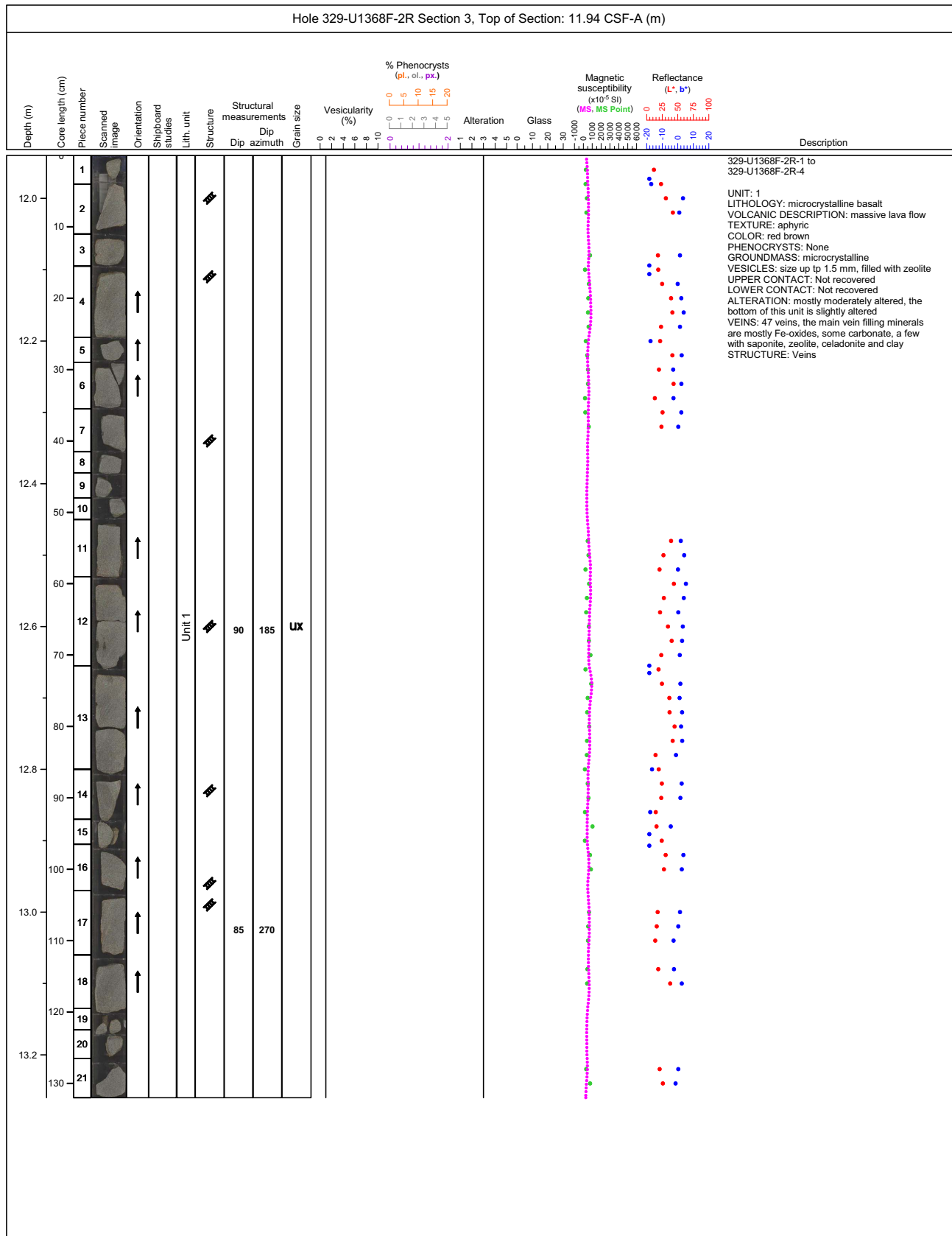
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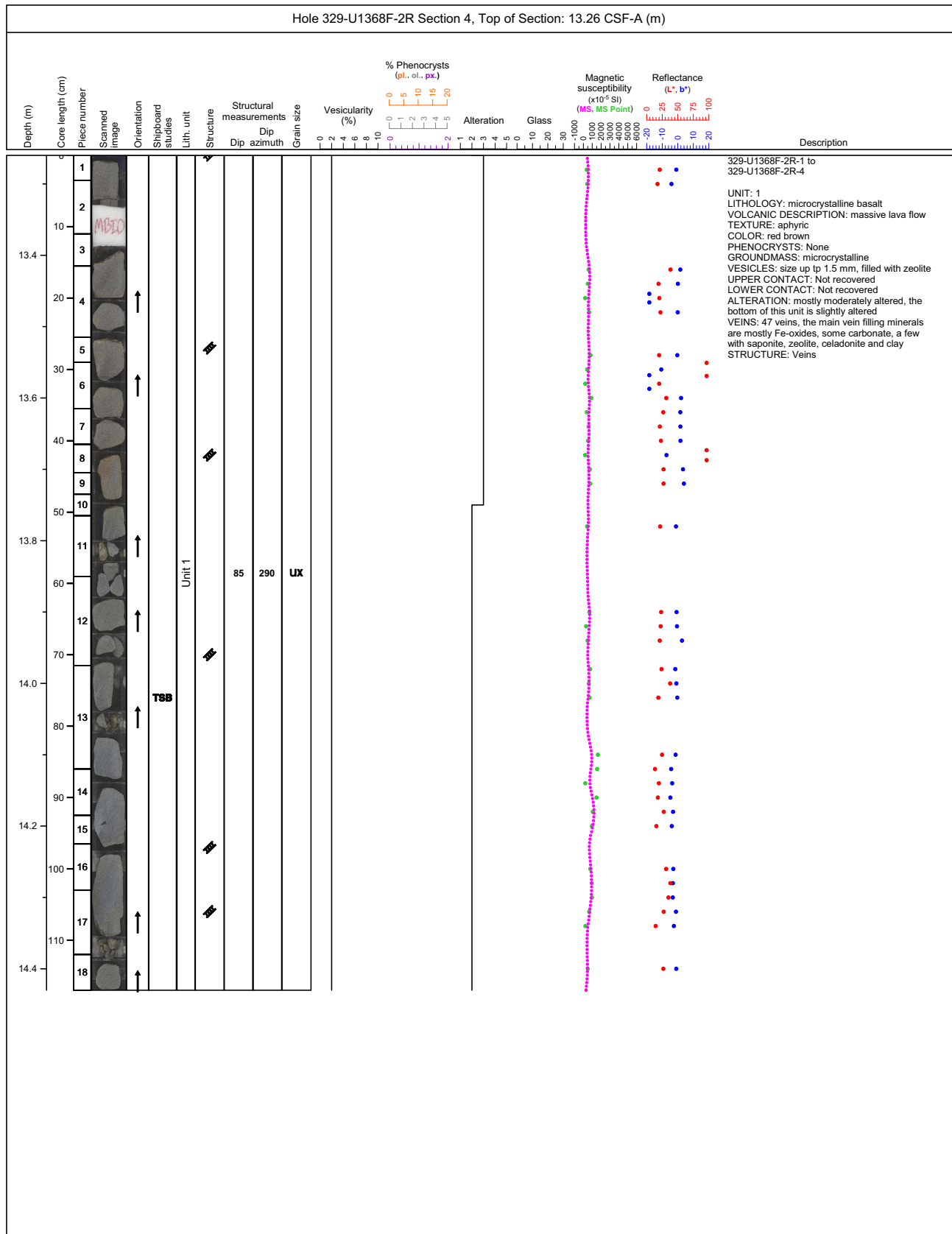
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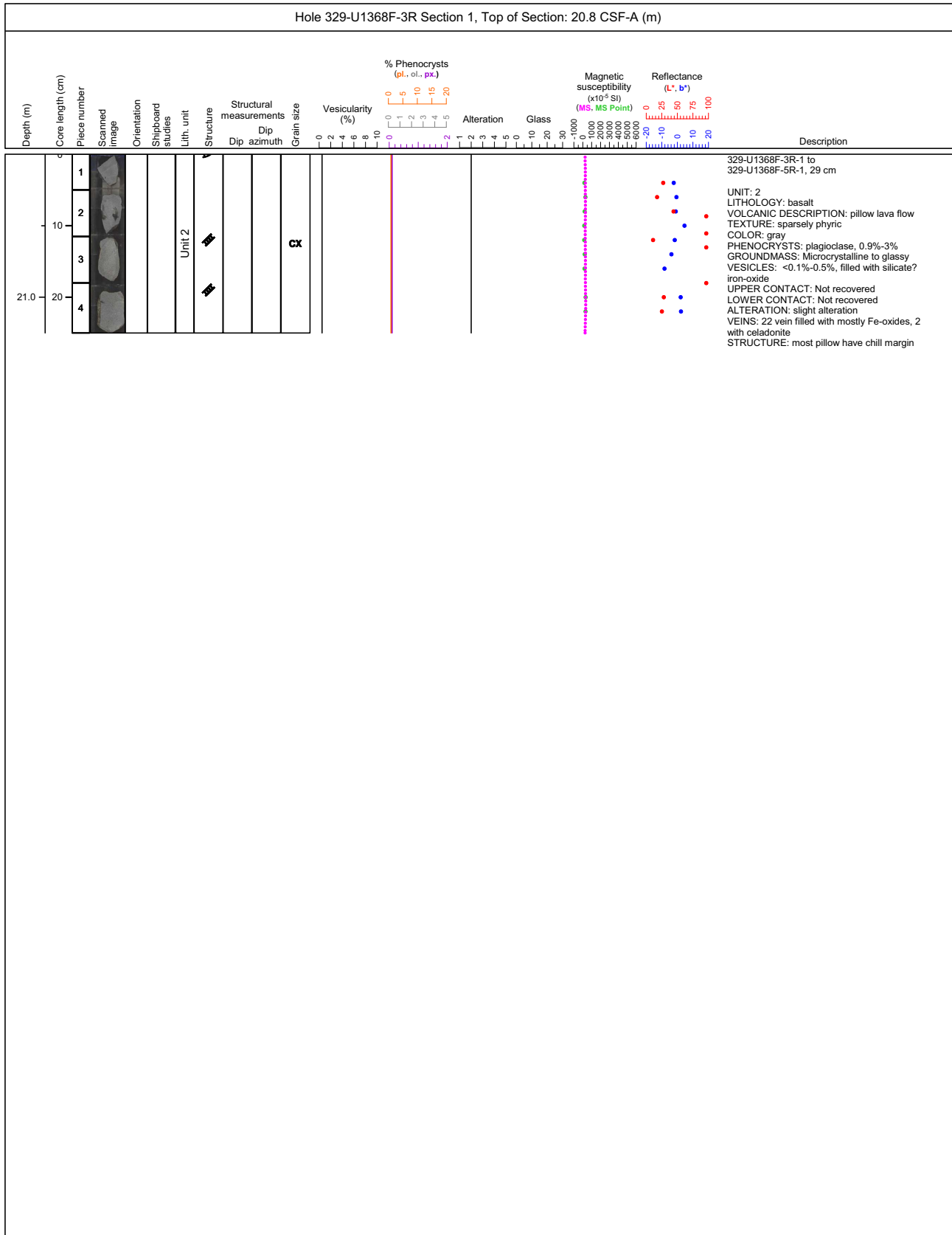
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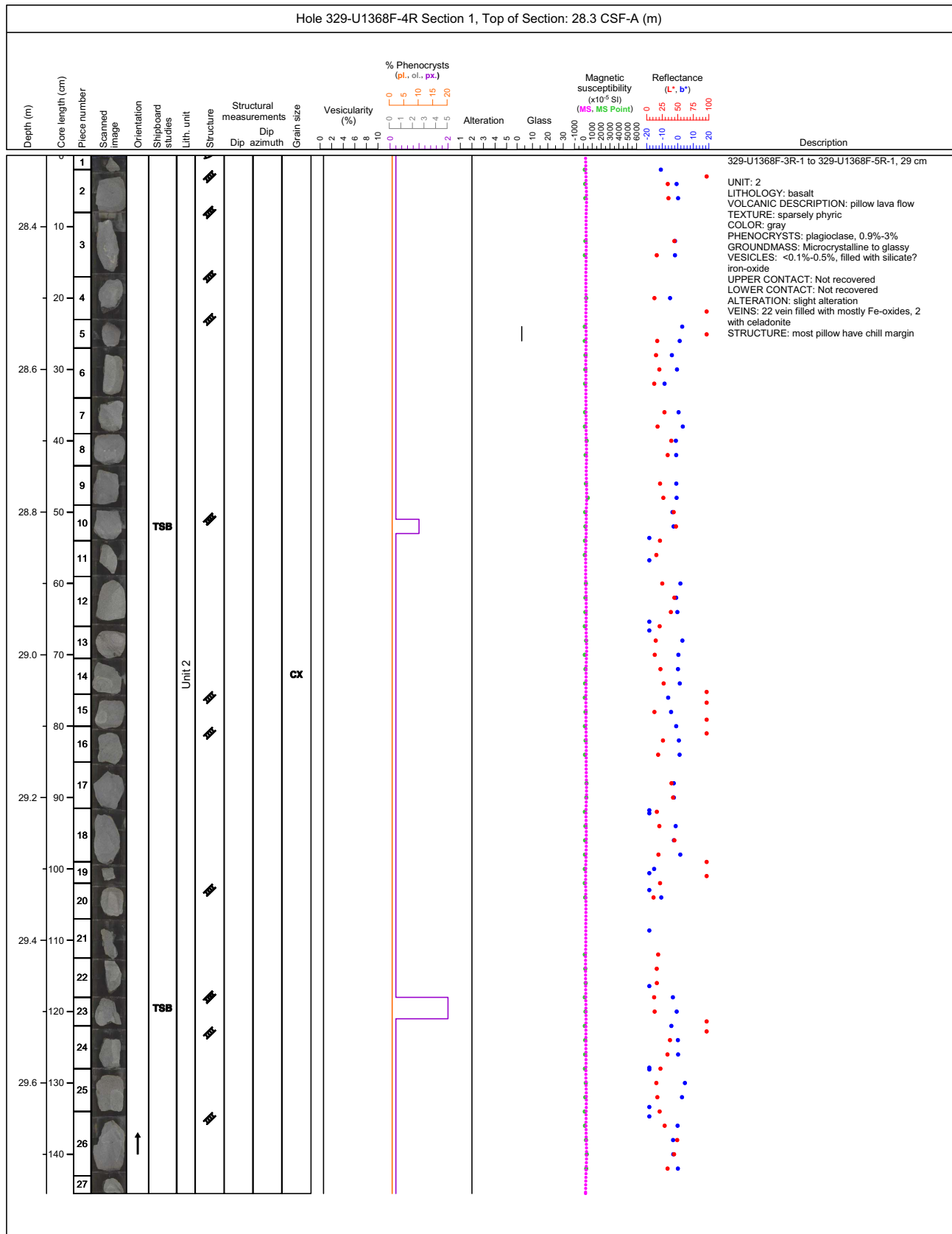
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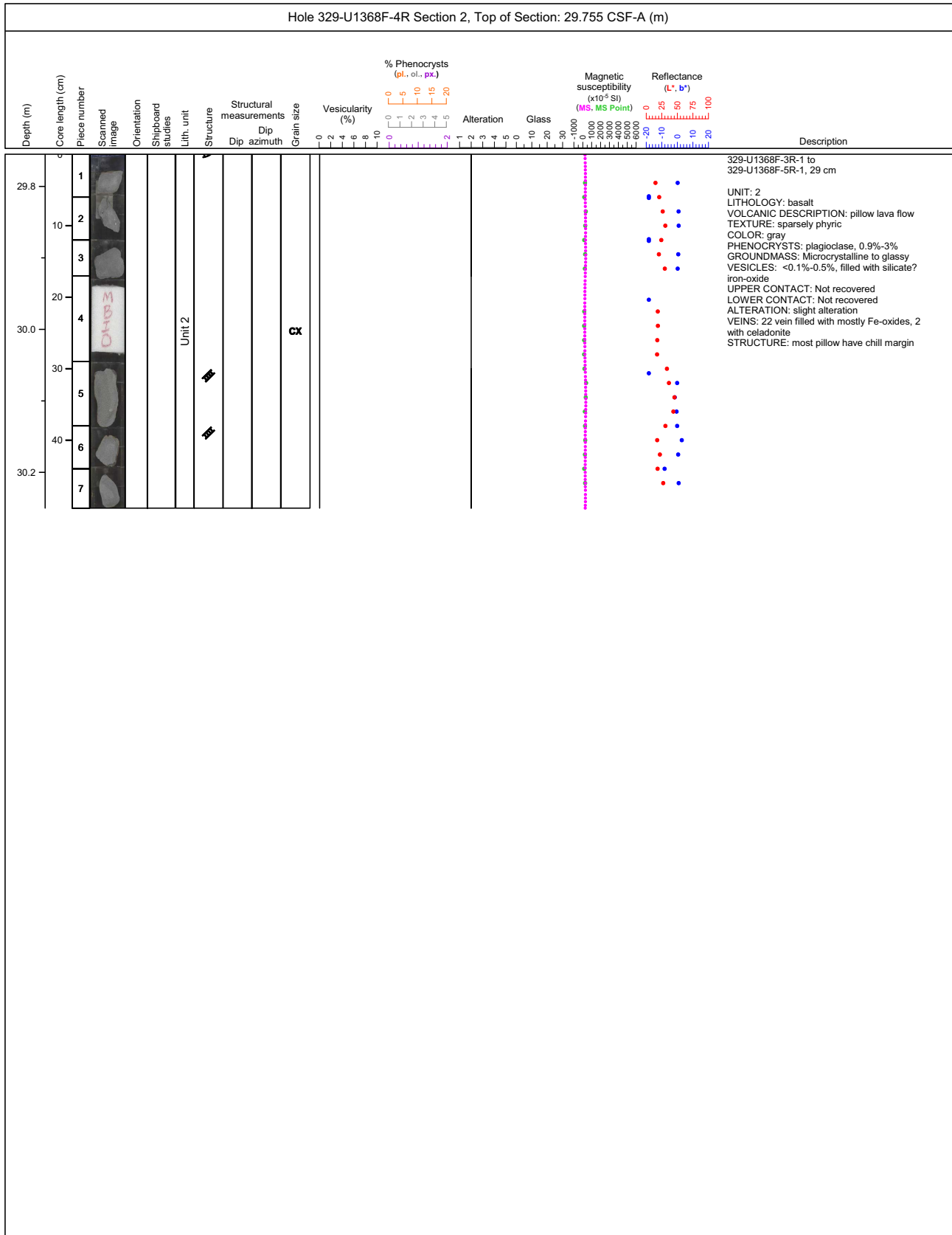
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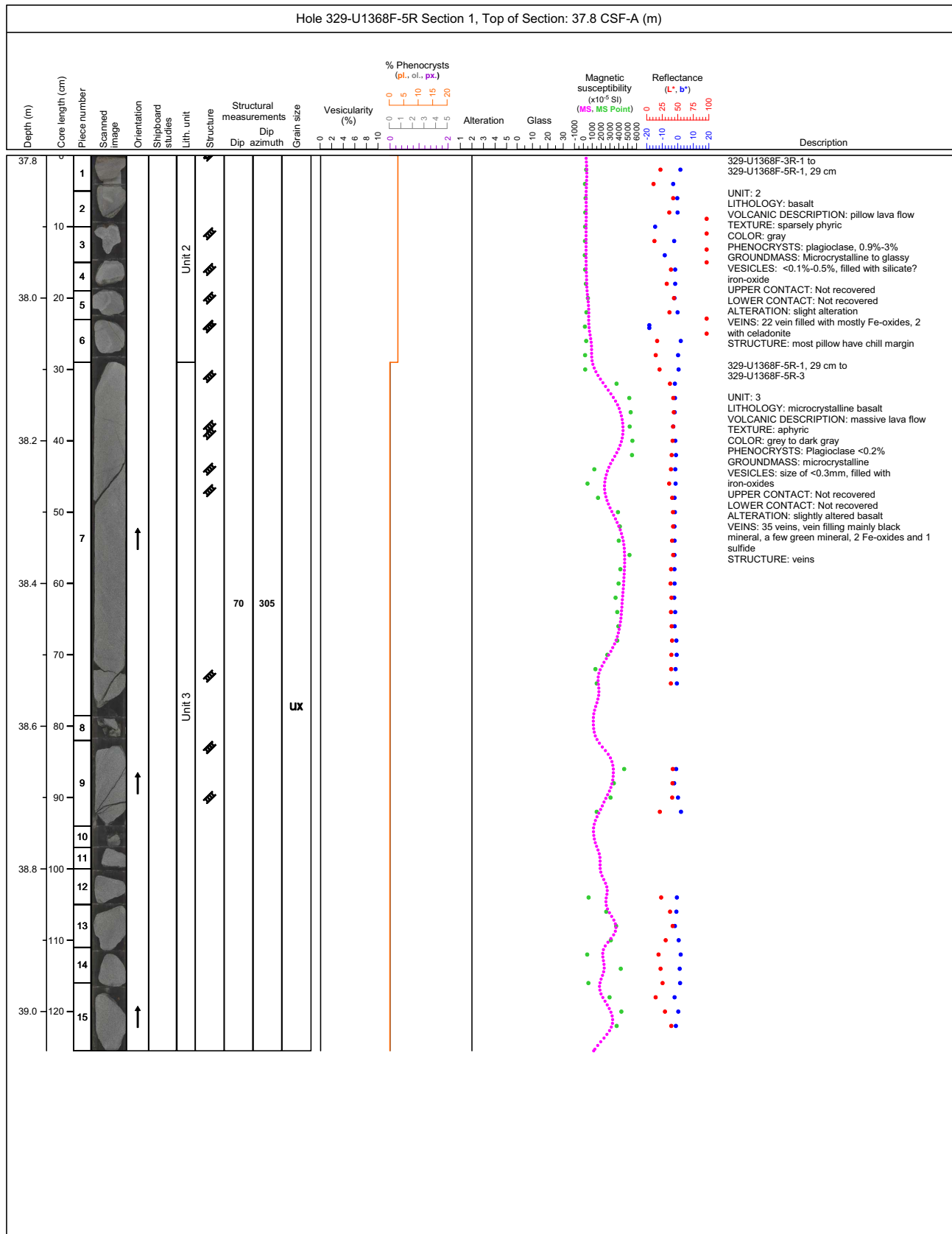
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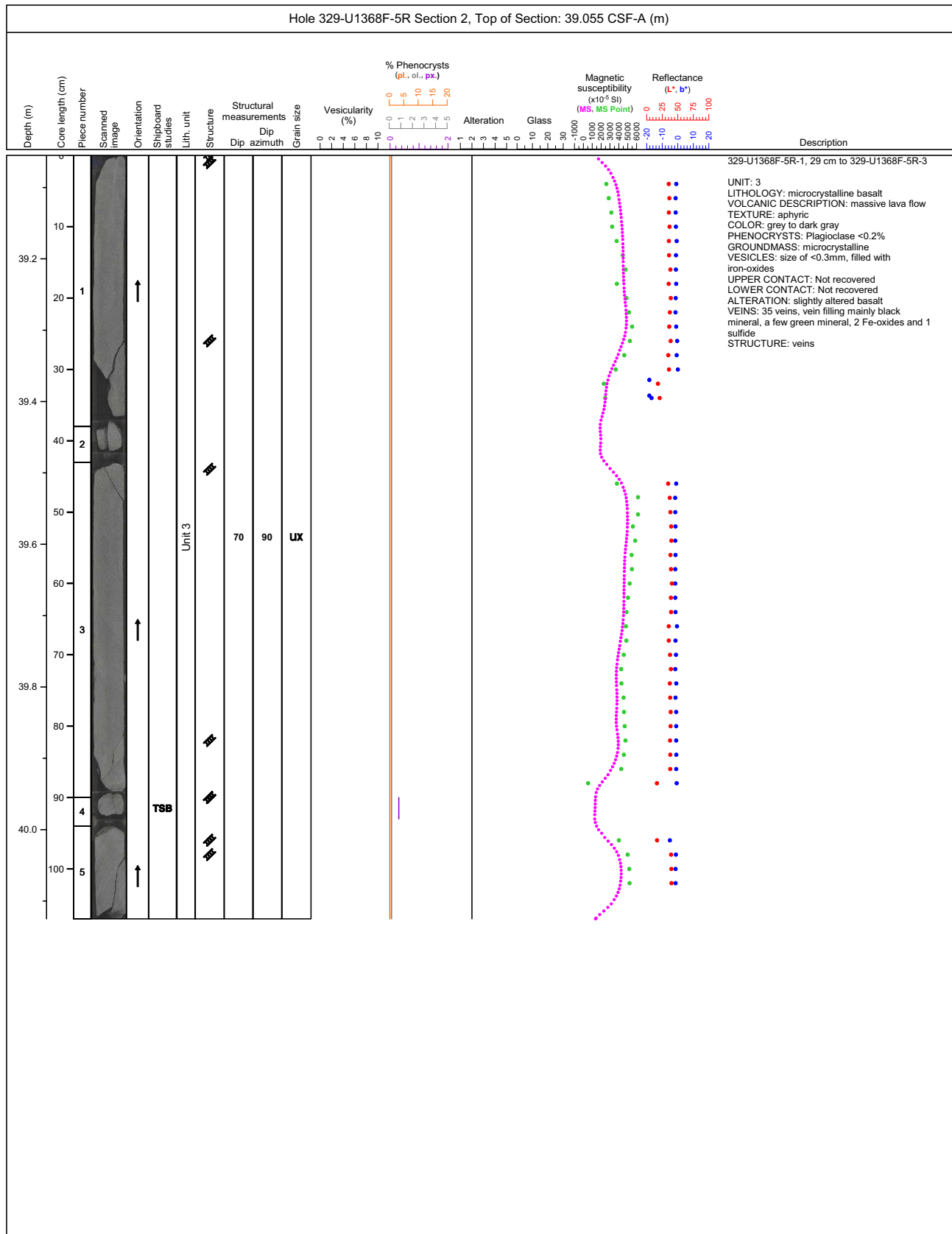
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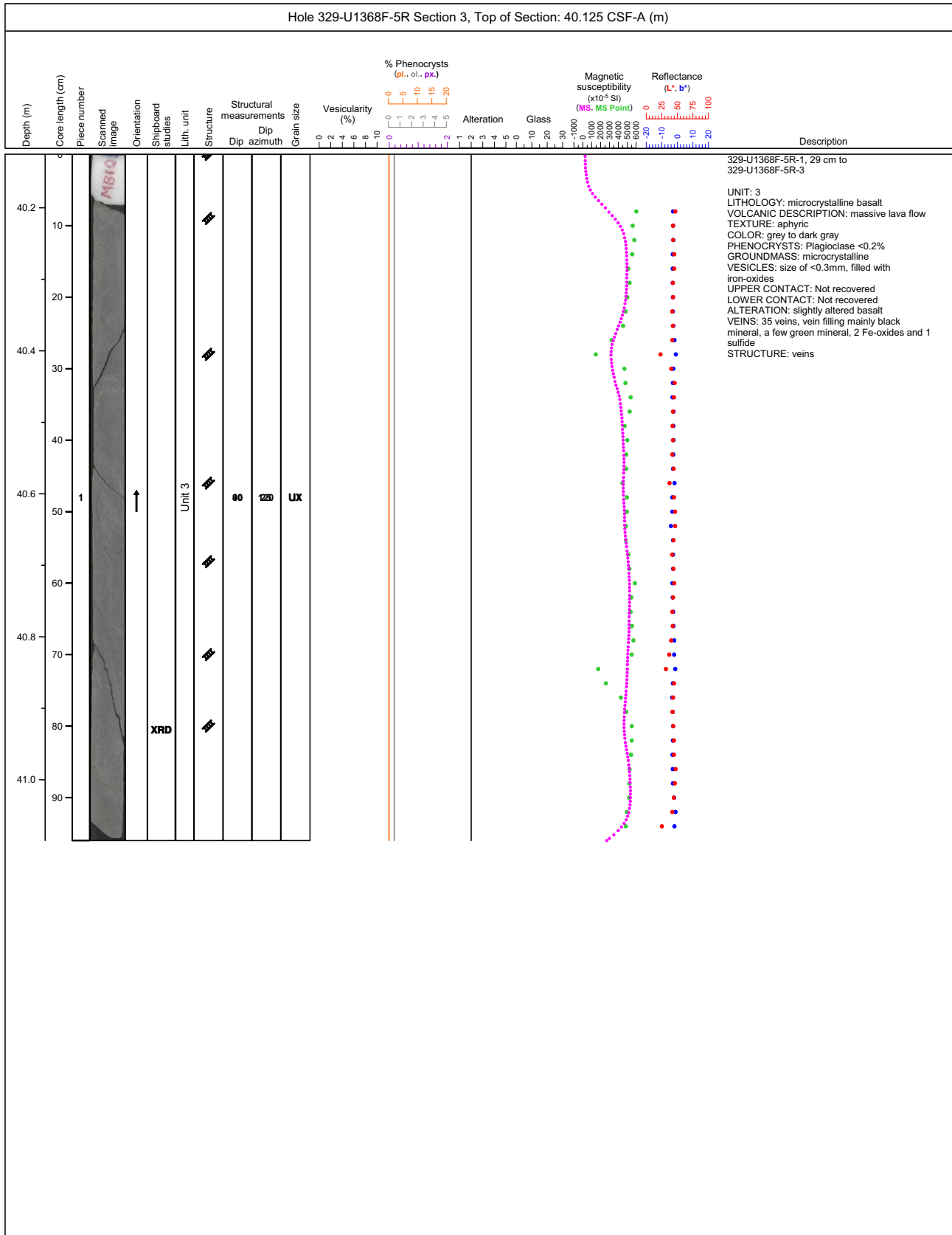
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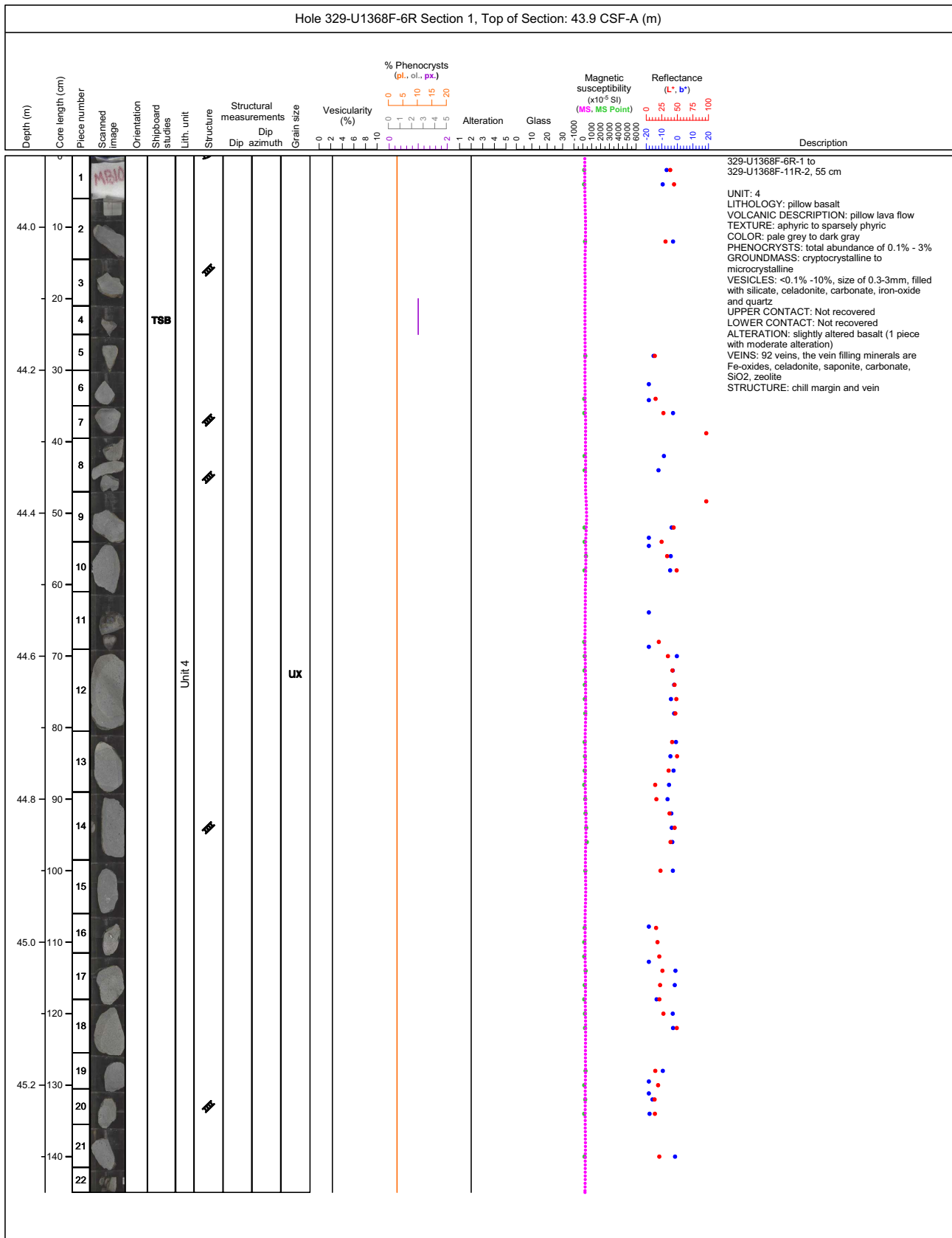
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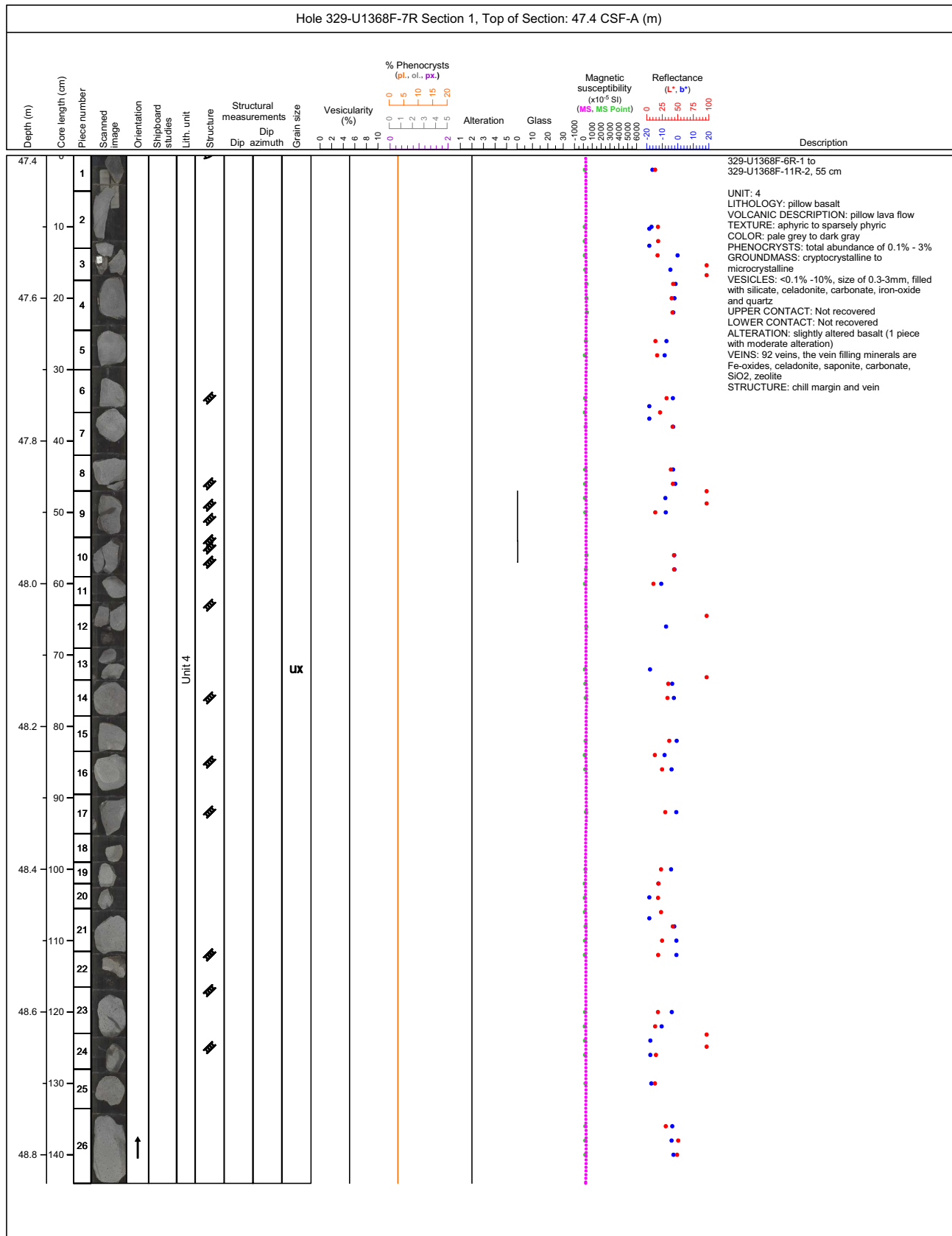
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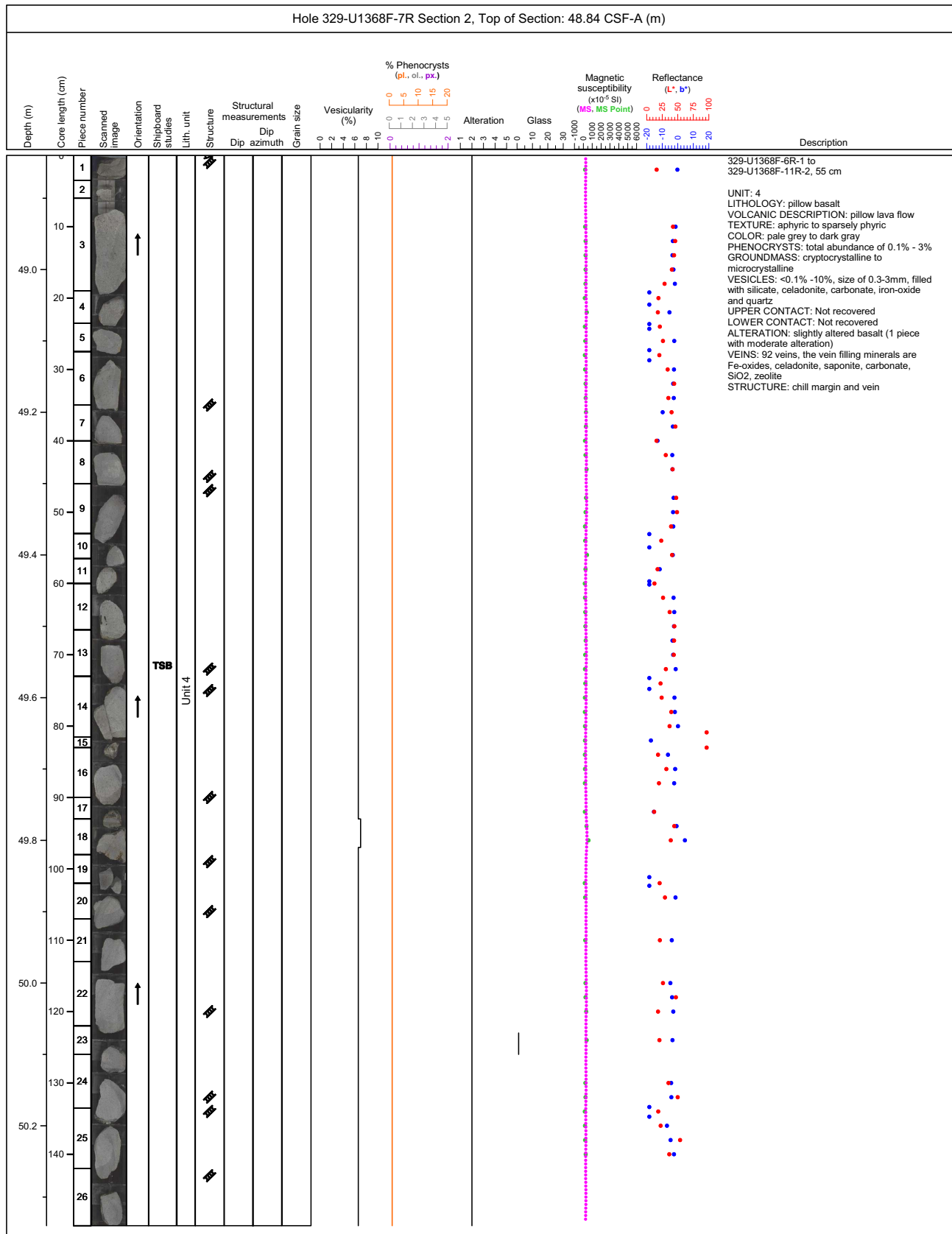
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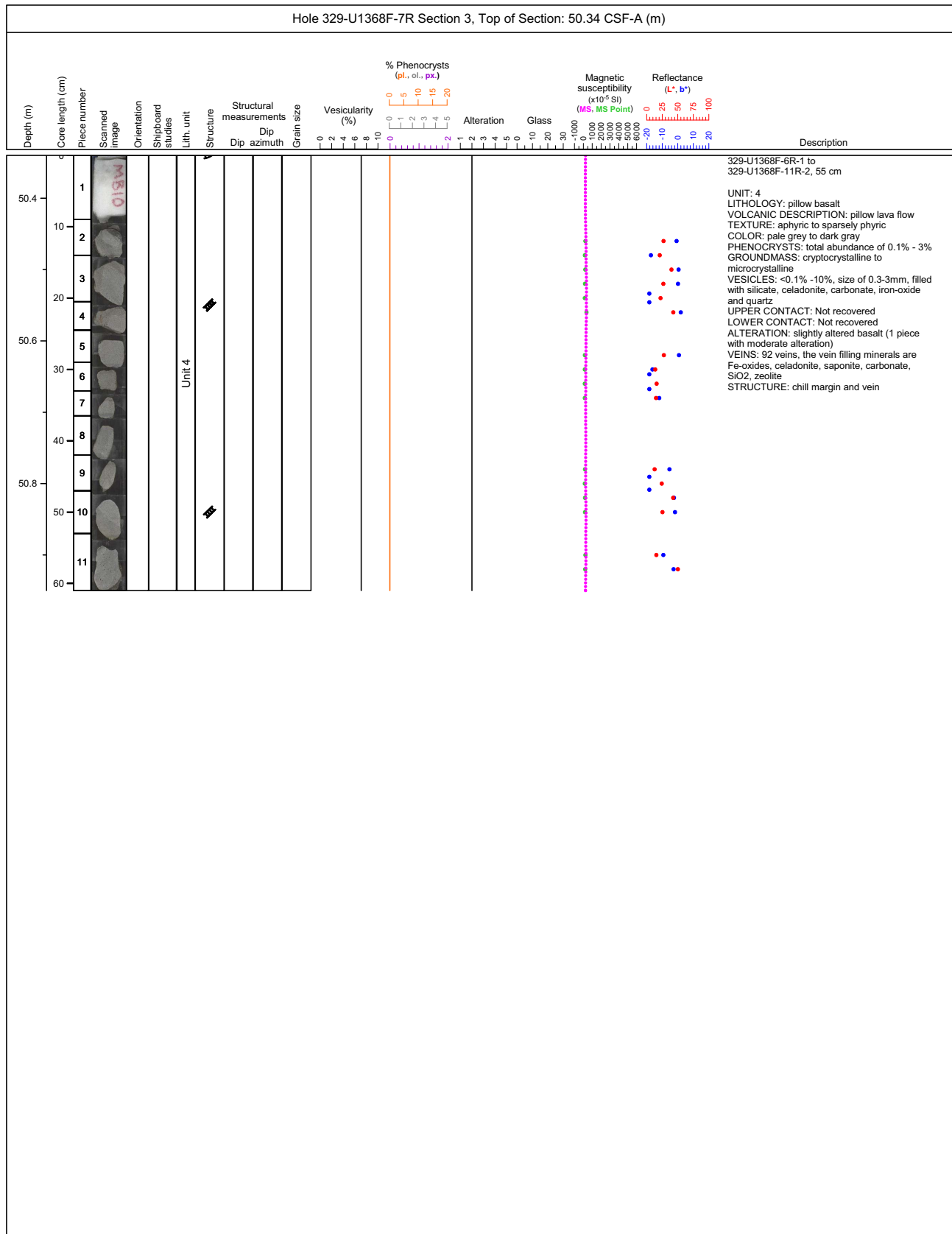
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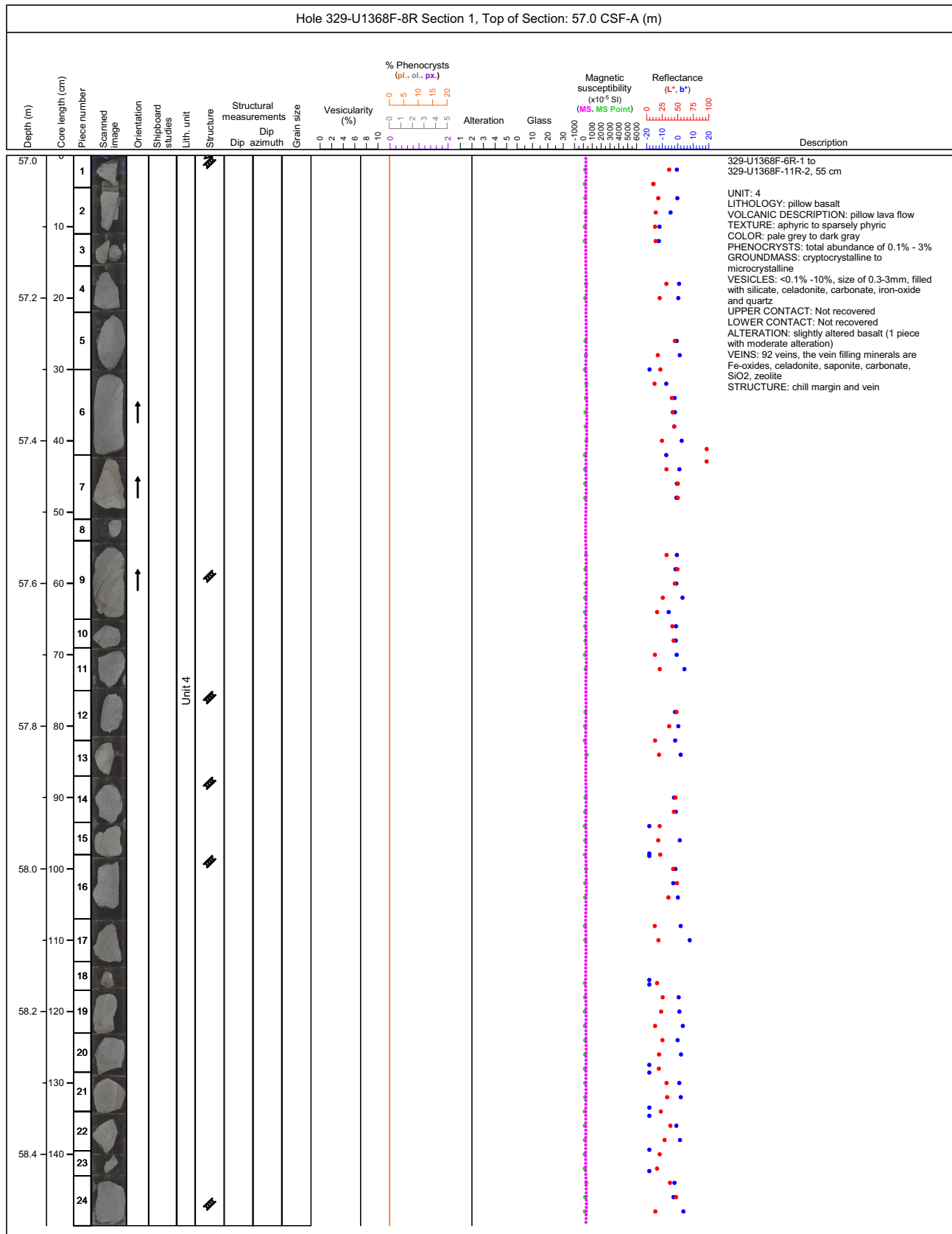
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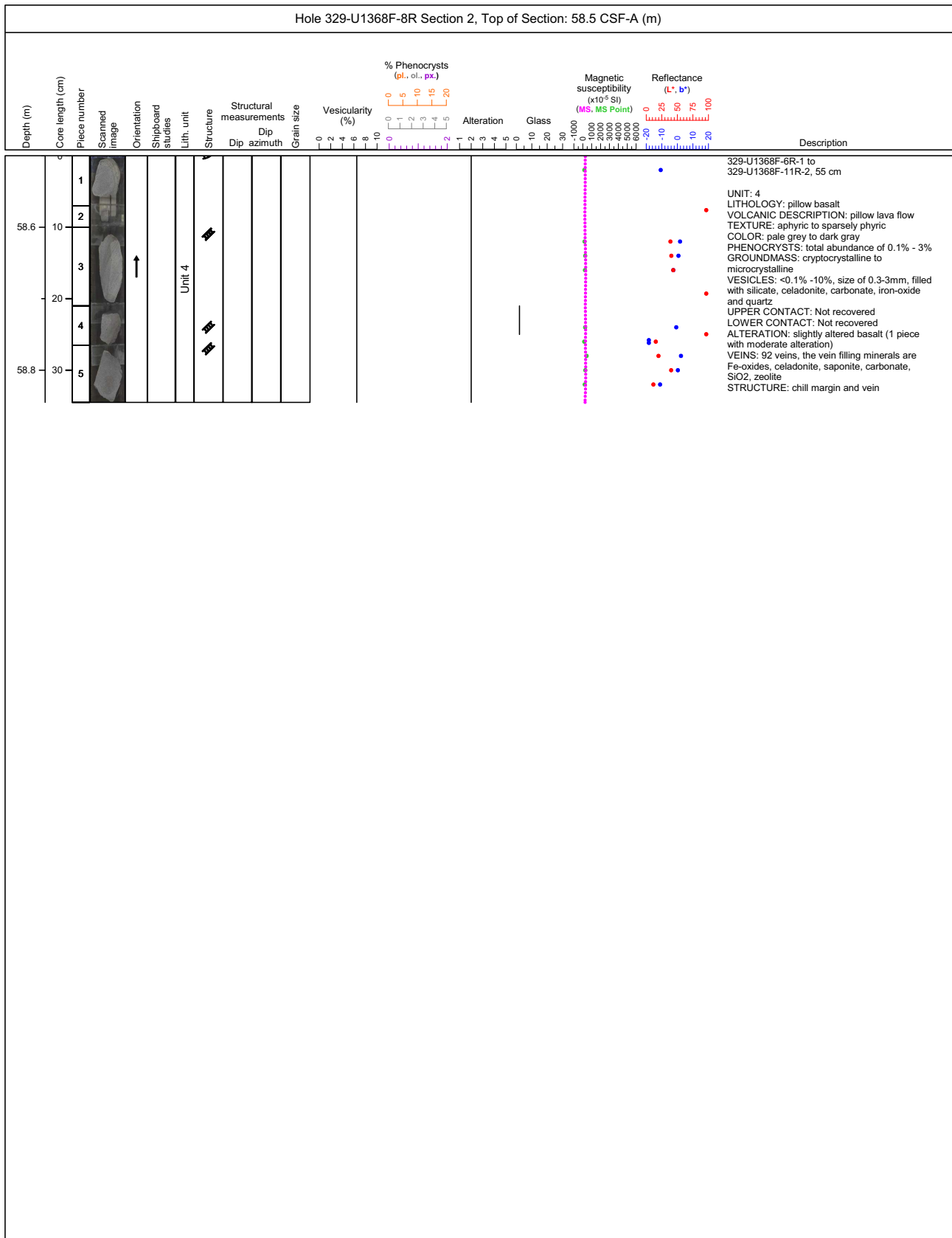
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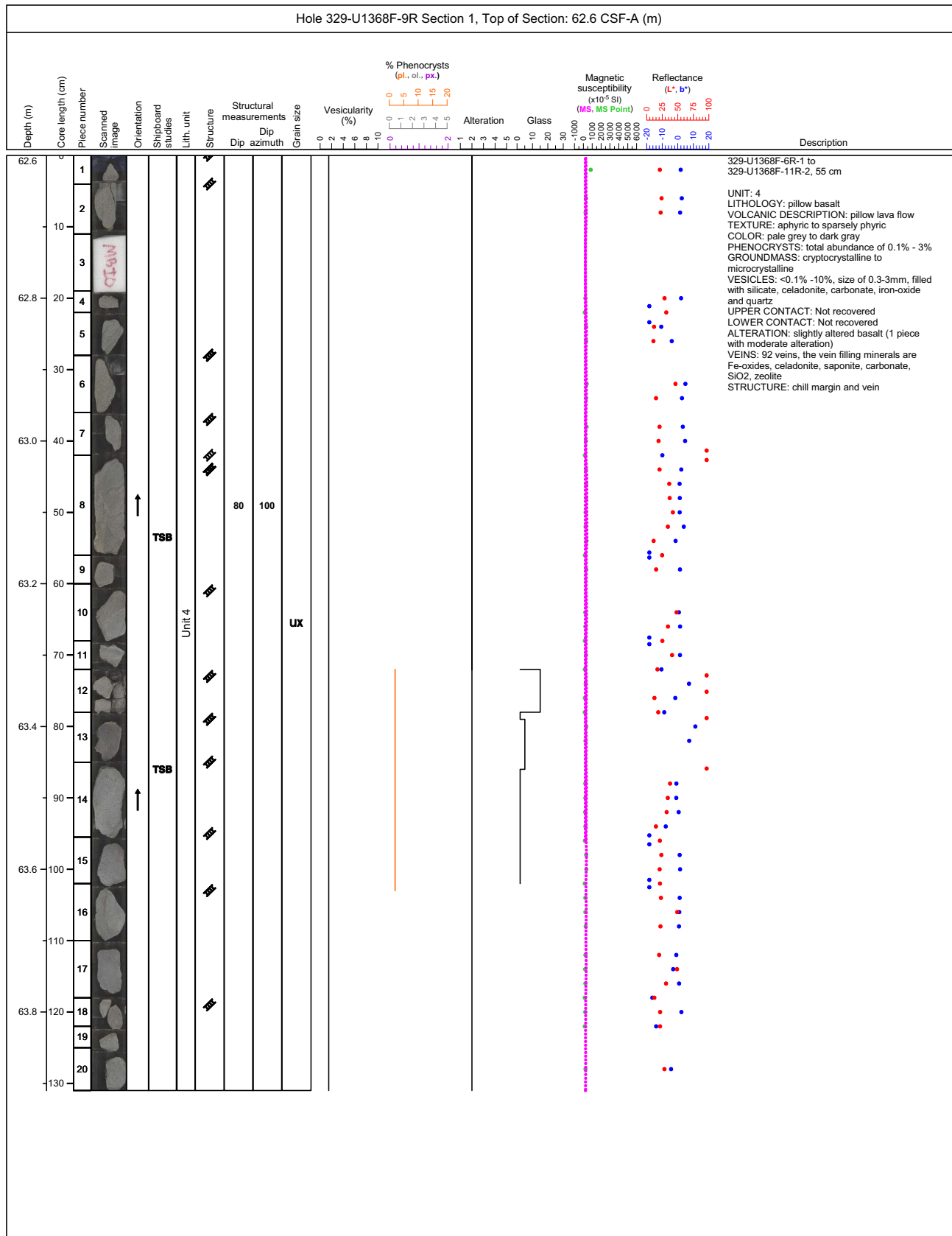
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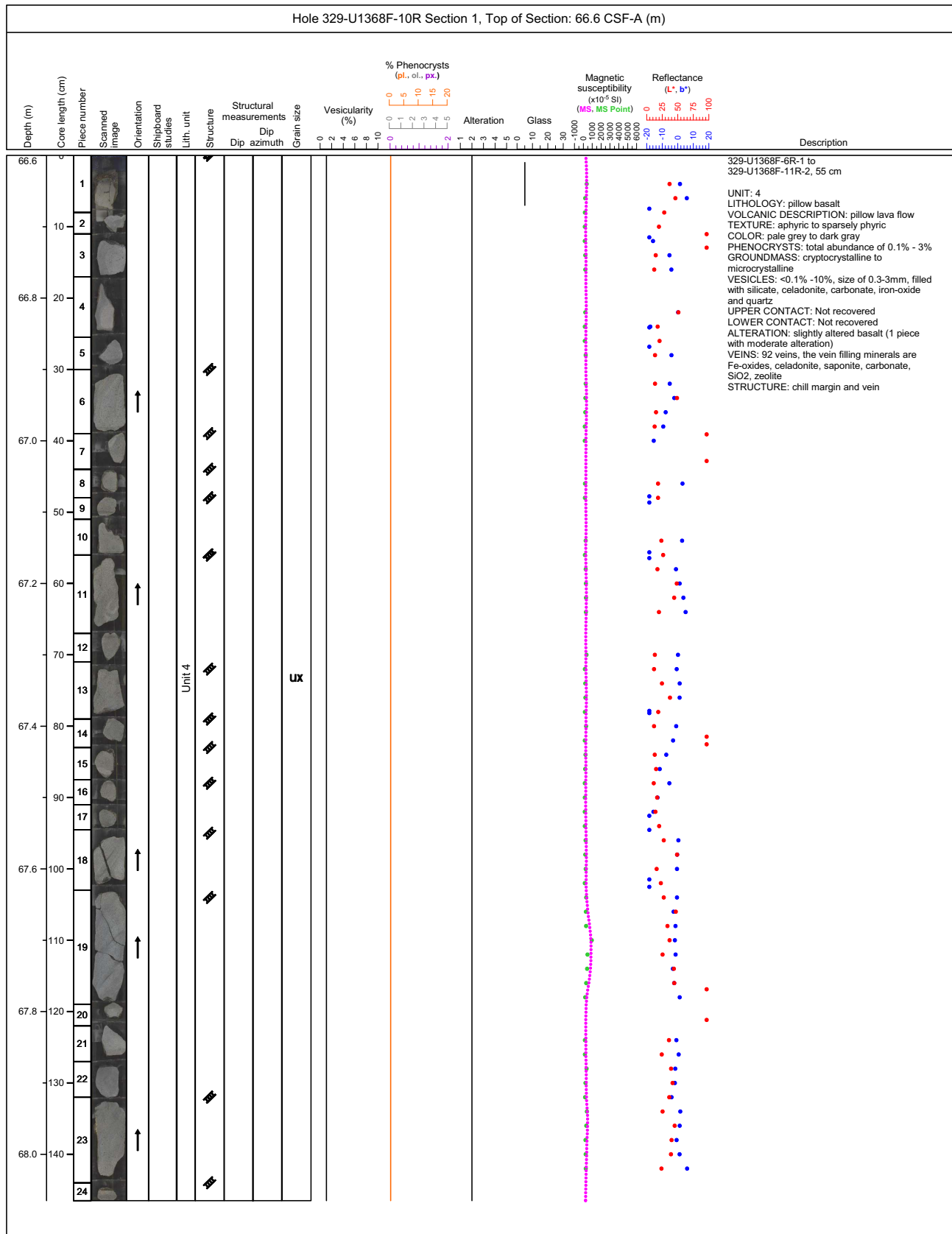
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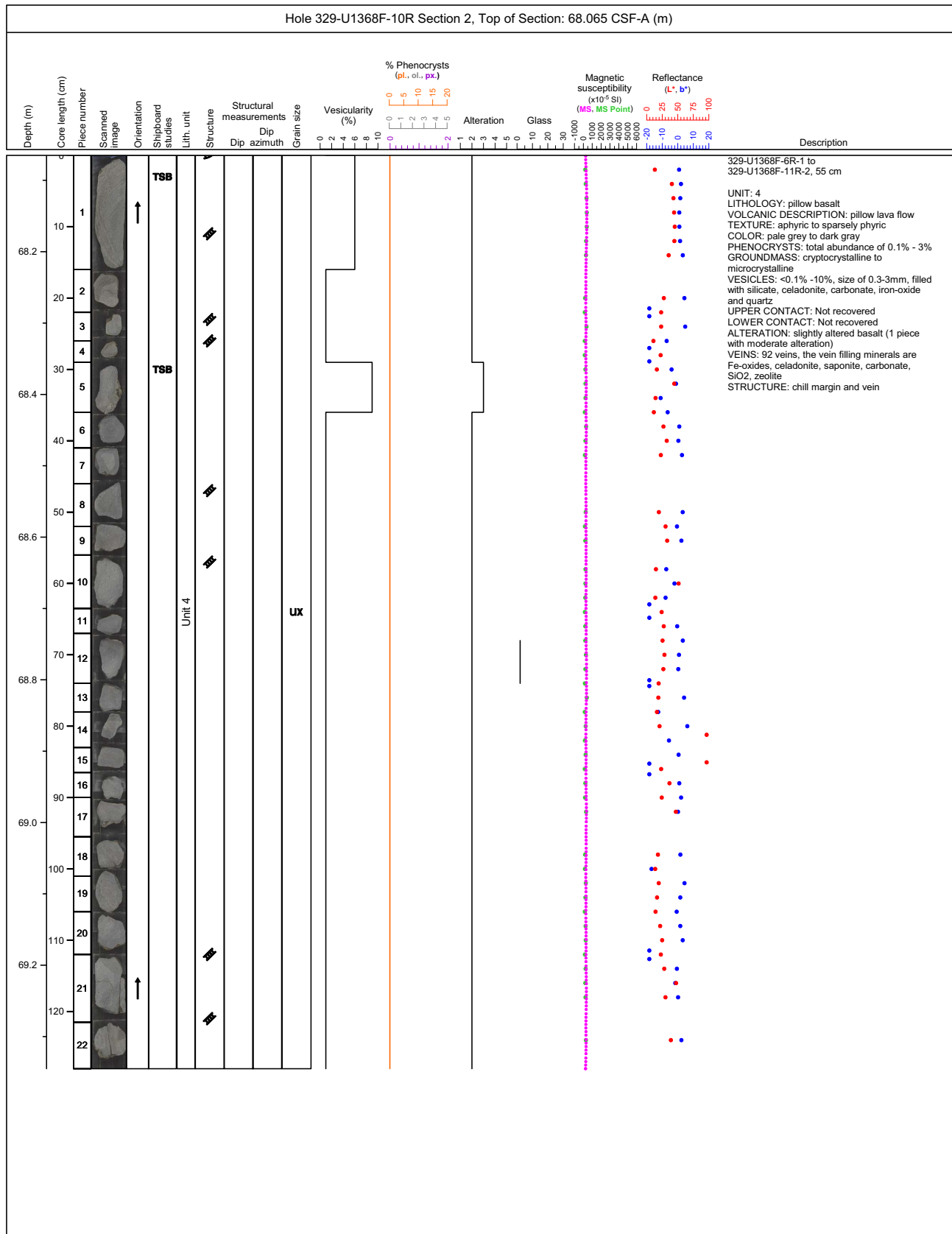
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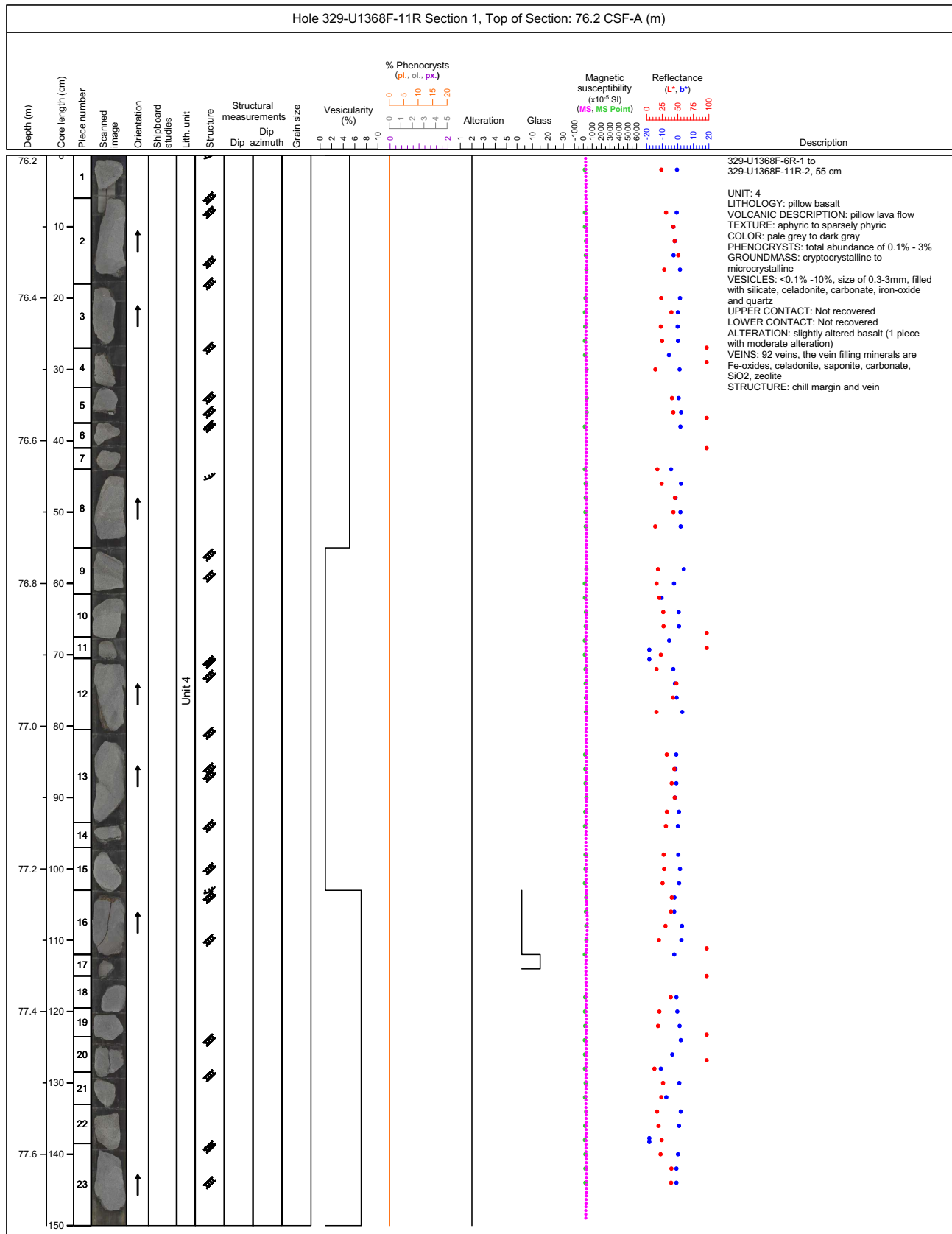
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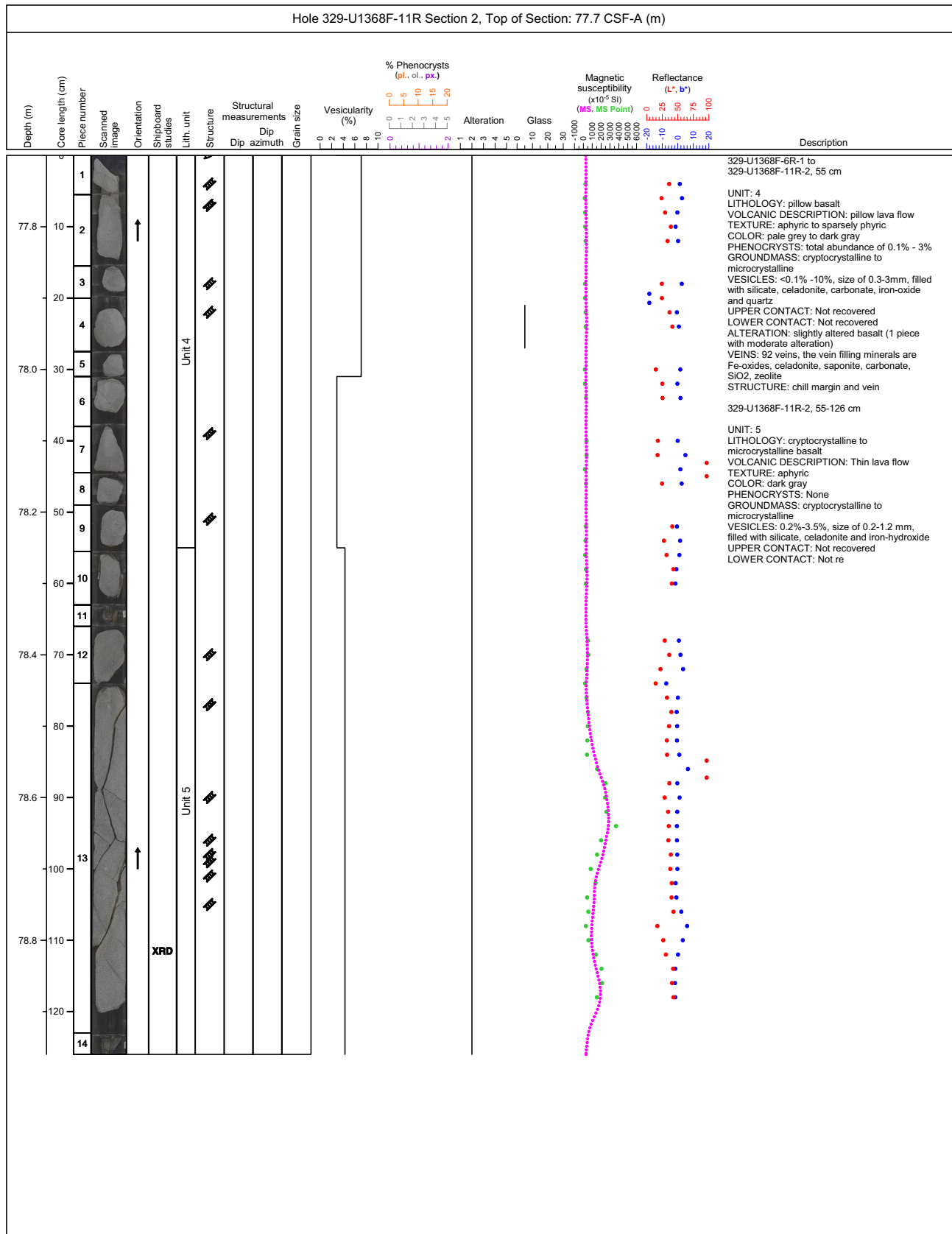
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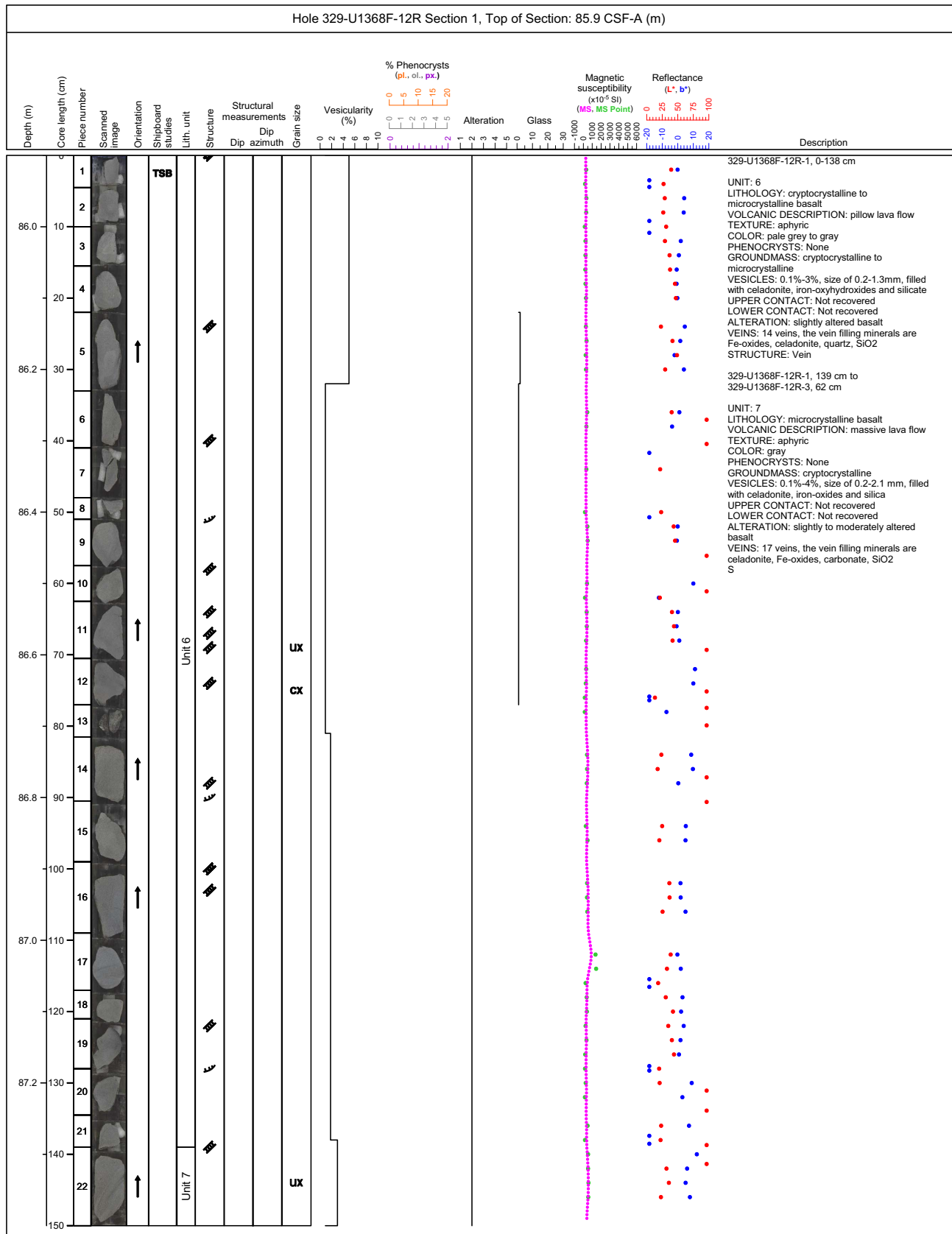
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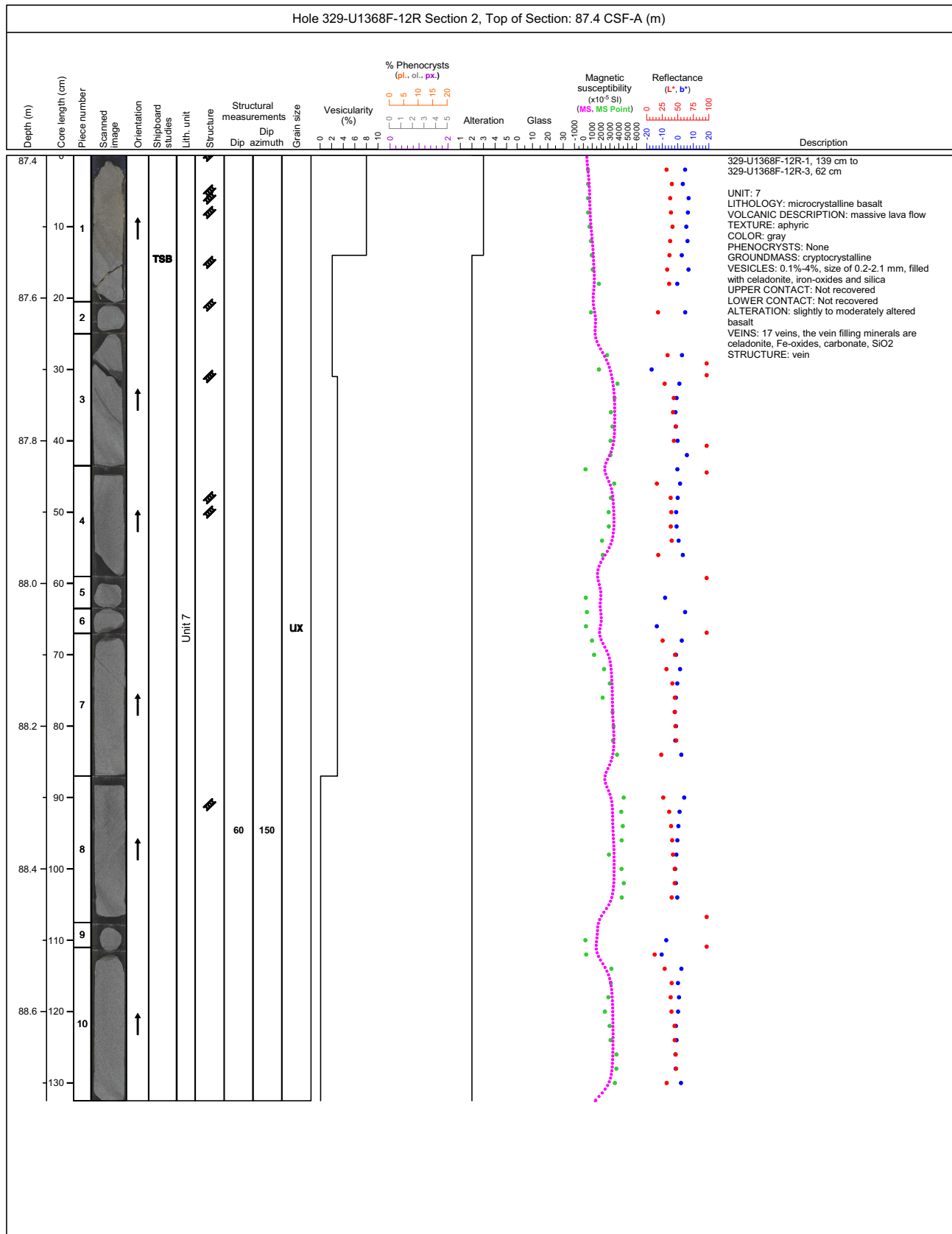
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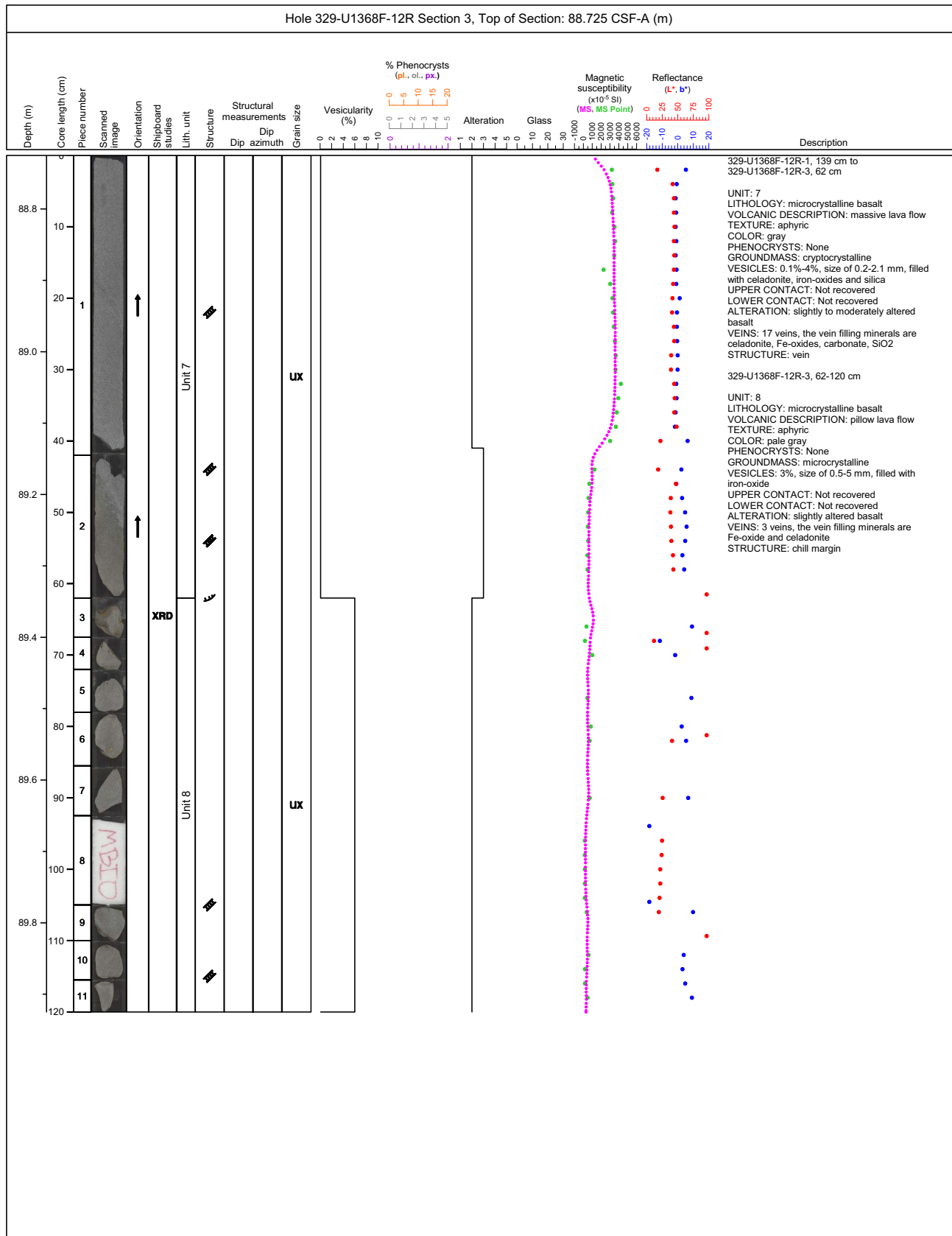
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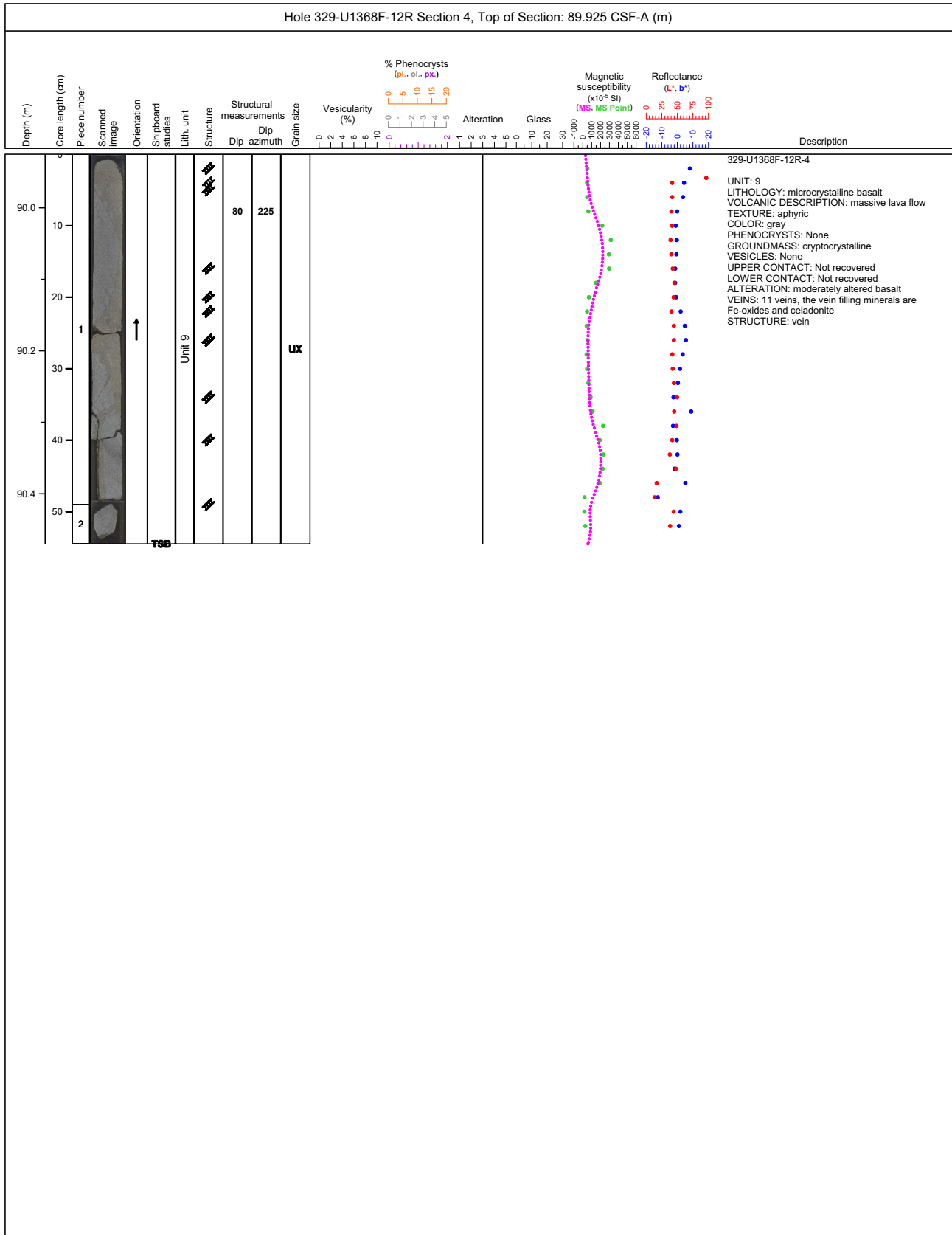
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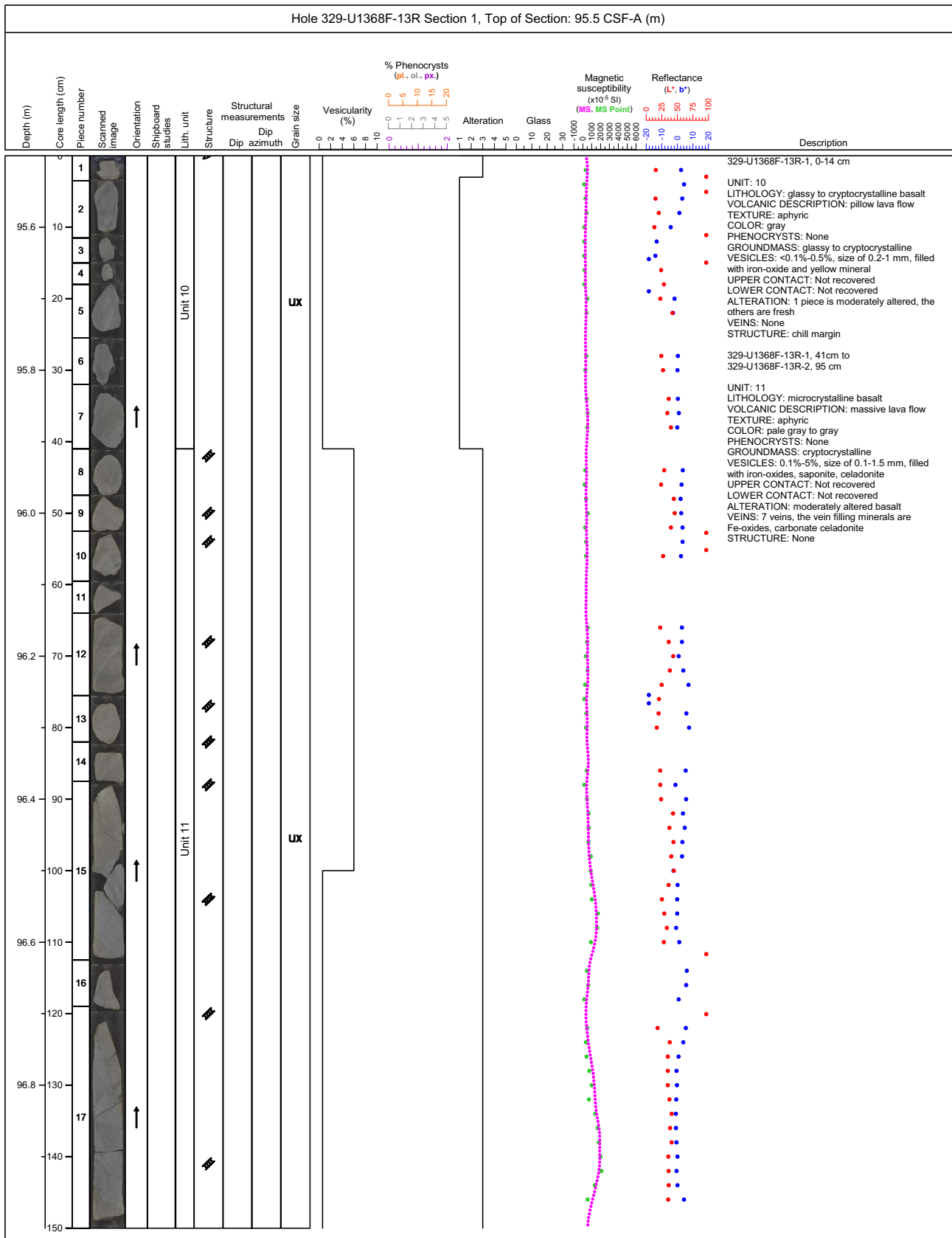
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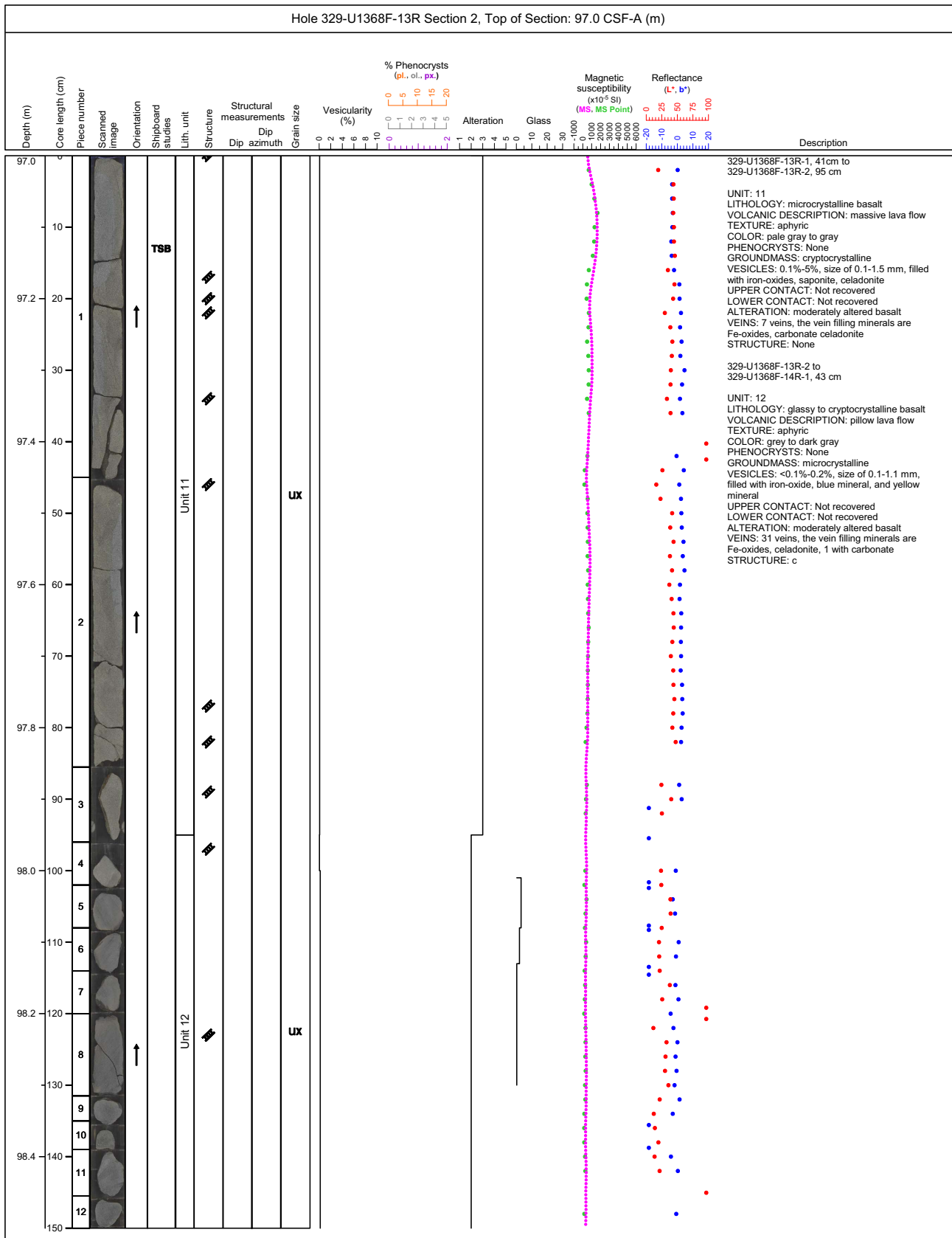
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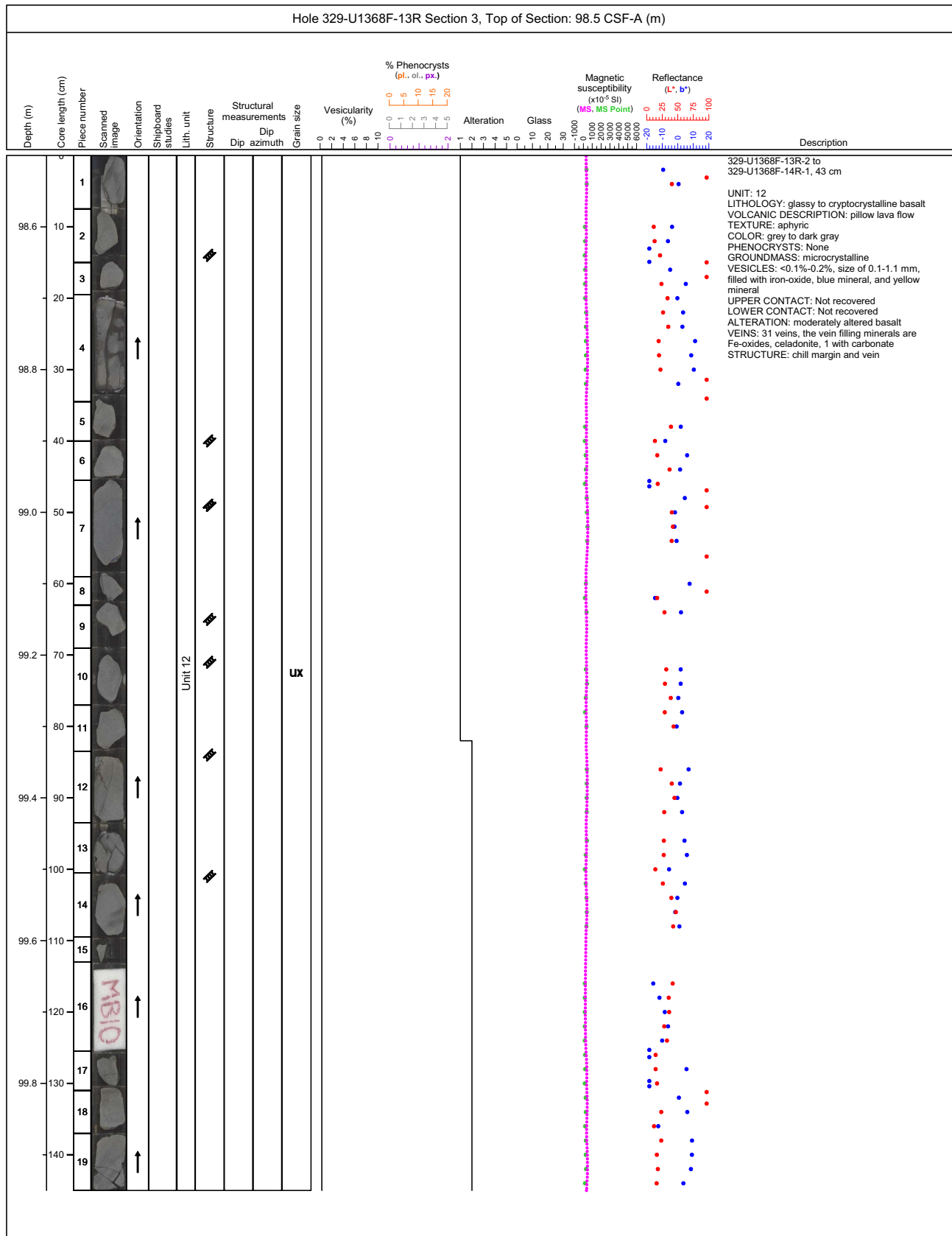
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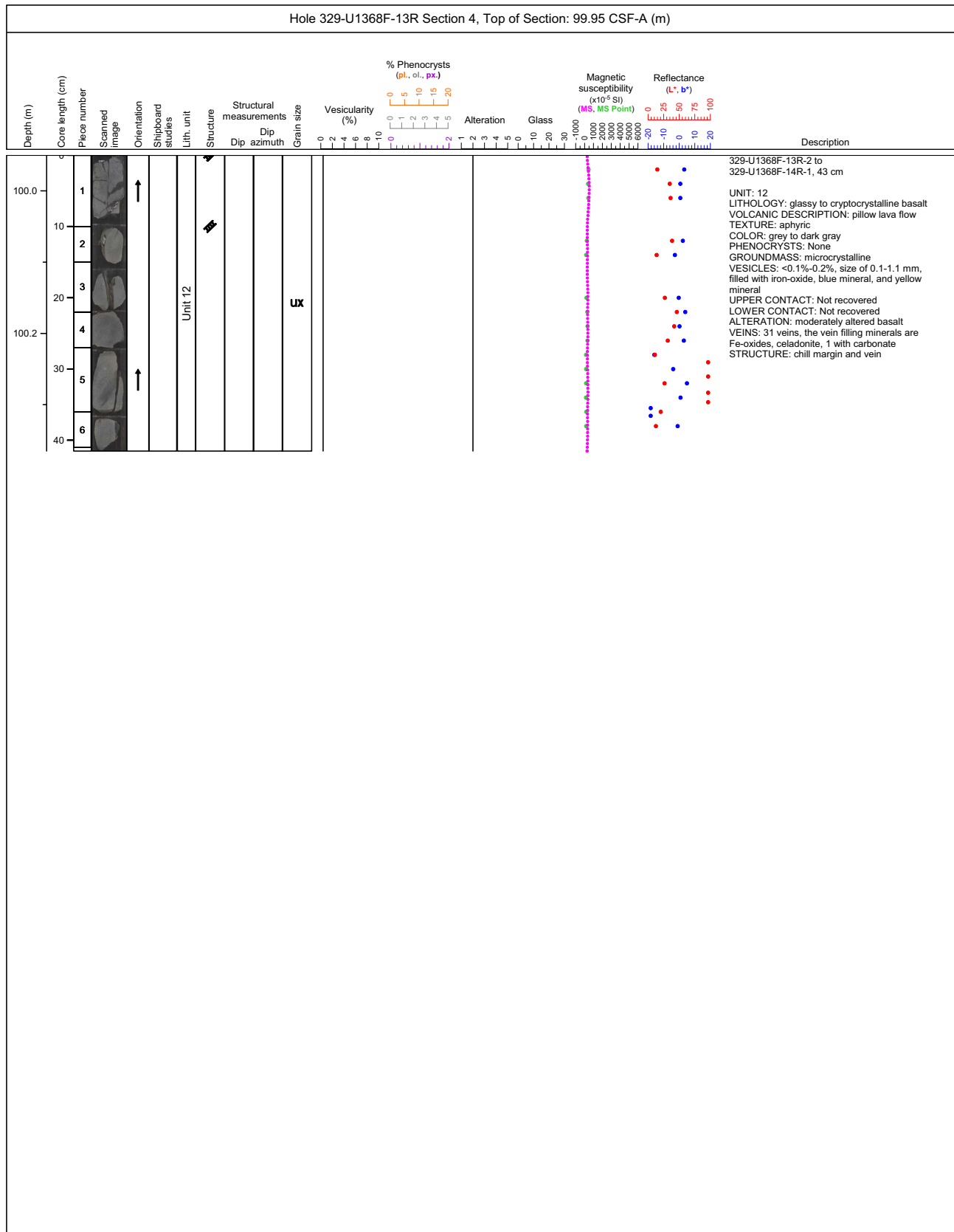
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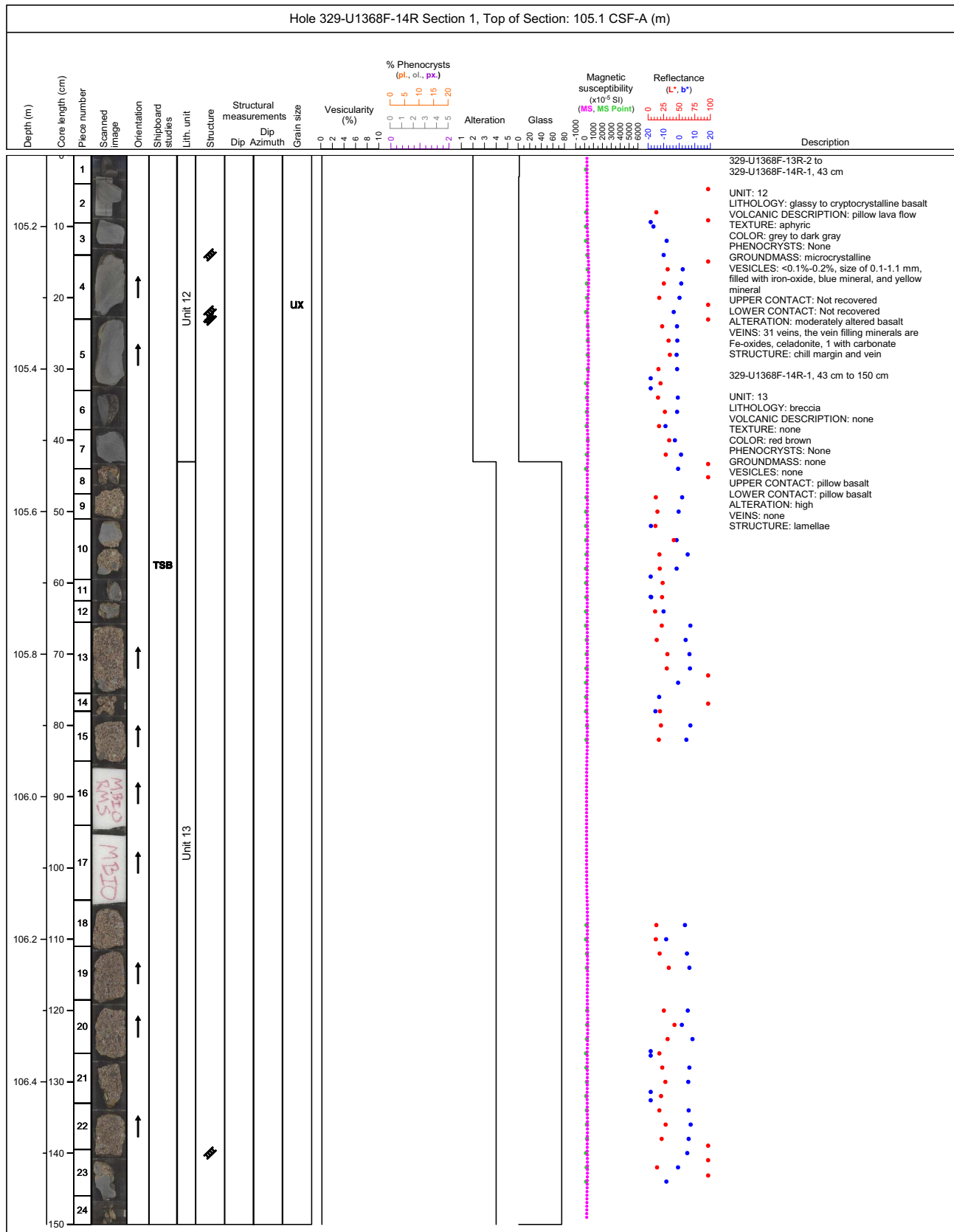
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Core Photo



Core Photo





Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Zeolite	Quartz	Feldspar	Other igneous or hydrothermal grain	Calcite	Foraminifera	Coccolithophores	Spicules
329	U1368	B	1	H	1	SED	0.05	0.05	3	11	3	0	0	0	0	3	79	0
329	U1368	B	1	H	1	SED	0.2	0.2	4	18	5	0	0	0	0	4	70	0
329	U1368	B	1	H	1	SED	1	1	2	12	2	0	0	0	0	0	85	0
329	U1368	B	1	H	2	SED	2.3	2.3	0	13	0	0	0	0	0	0.1	88	0
329	U1368	B	1	H	3	SED	3.3	3.3	2	9	0	0	0	0	0	4	85	0
329	U1368	B	1	H	3	SED	3.5	3.5	0	2	0	0	0	0	0	61	37	0
329	U1368	B	1	H	3	SED	3.7	3.7	0	8	0	0	0	0	0	2	91	0
329	U1368	B	1	H	3	SED	4.3	4.3	2	6	0	0	0	0	0	2	89	0
329	U1368	B	1	H	4	SED	4.9	4.9	0	25	0	0	0	0	0	1	74	0
329	U1368	B	1	H	4	SED	5.3	5.3	0	27	0	0	0	0	0	2	71	0
329	U1368	B	2	H	1	SED	5.74	5.74	18	41	0	0	0	0	0	0	41	0
329	U1368	B	2	H	1	SED	6.2	6.2	0	28	0	0	0	0	0	1	70	0
329	U1368	B	2	H	2	SED	7.6	7.6	0	24	0	0	0	0	0	2	73	0
329	U1368	B	2	H	2	SED	7.87	7.87	0	12	0	0	0	0	0	60	28	0
329	U1368	B	2	H	2	SED	8.44	8.44	0	67	0	0	0	0	0	13	20	0
329	U1368	B	2	H	3	SED	9.2	9.2	0	25	0	0	0	0	0	3	68	3
329	U1368	B	2	H	5	SED	11.7	11.7	0	48	0	0	0	0	0	5	48	0
329	U1368	B	2	H	5	SED	12.3	12.3	0	55	0	0	0	0	0	0	44	4
329	U1368	B	2	H	6	SED	13	13	0	88	0	0	0	0	0	0	12	0
329	U1368	B	2	H	6	SED	13.63	13.63	0	0	0	13	33	67	0	-	-	-
329	U1368	B	2	H	7	SED	14.12	14.12	0	0	0	0	0	59	41	-	-	-
329	U1368	B	2	H	7	SED	14.2	14.2	0	0	0	0	0	57	43	-	-	-
329	U1368	B	2	H	7	SED	14.45	14.45	0	0	0	47	20	33	0	-	-	-



Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	RSO	Spicules	Coccolithophores
329	U1368	C	1	H	6	SED	7.6	7.6	20	3	77
329	U1368	C	2	H	3	SED	11.7	11.7	50	0	50
329	U1368	C	2	H	3	SED	12.17	12.17	75	0	25



Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	Clay	RSO	Coccolithophores	Foraminifera	Spicules
329	U1368	D	1	H	1	SED	0.05	0.05	0	10	83	7	0
329	U1368	D	1	H	3	SED	3.8	3.8	0	9	91	0	0
329	U1368	D	1	H	4	SED	5.5	5.5	0	14	80	6	0
329	U1368	D	2	H	2	SED	10.2	10.2	0	19	77	0	4
329	U1368	D	2	H	3	SED	11.7	11.7	0	35	59	2	4
329	U1368	D	2	H	4	SED	13.45	13.45	6	78	16	0	0



Exp	Site	Hole	Core	Type	Section	Name	TopDepth	BotDepth	RSO	Zeolite	Other igneous or hydrothermal grain	Calcite	Coccolithophores	Foraminifera
329	U1368	E	1	H	1	SED	0.05	0.05	13	7	0	0	71	9
329	U1368	E	1	H	1	SED	0.14	0.14	18	7	0	0	68	7
329	U1368	E	1	H	1	SED	0.6	0.6	12	0	0	0	88	0
329	U1368	E	1	H	1	SED	1.2	1.2	12	0	0	0	88	0
329	U1368	E	1	H	2	SED	2.34	2.34	33	0	0	0	67	0
329	U1368	E	1	H	3	SED	3.08	3.08	14	0	0	0	34	52
329	U1368	E	1	H	3	SED	3.2	3.2	15	0	0	0	80	5
329	U1368	E	1	H	3	SED	4.2	4.2	16	0	0	0	80	4
329	U1368	E	1	H	3	SED	4.4	4.4	18	0	0	0	82	0
329	U1368	E	1	H	4	SED	4.8	4.8	19	0	0	0	77	4
329	U1368	E	1	H	4	SED	5.2	5.2	22	0	0	0	73	5
329	U1368	E	2	H	1	SED	5.8	5.8	25	0	0	0	66	9
329	U1368	E	2	H	1	SED	6.3	6.3	23	0	0	0	70	7
329	U1368	E	2	H	1	SED	7	7	29	0	0	0	71	0
329	U1368	E	2	H	2	SED	7.3	7.3	29	0	0	0	71	0
329	U1368	E	2	H	2	SED	7.9	7.9	33	0	0	0	67	0
329	U1368	E	2	H	2	SED	8.4	8.4	40	0	0	0	60	0
329	U1368	E	2	H	3	SED	8.8	8.8	77	0	0	0	23	0
329	U1368	E	2	H	3	SED	9.4	9.4	85	0	0	0	15	0
329	U1368	E	2	H	4	SED	10.32	10.32	40	0	40	20	-	-



Thin section: 329-U1368F-2R-1-A
Depth CSF-A (m): 9.2-10.48
Rock name: aphyric basalt
Grain size: fine grained
Texture: subophitic
Where sampled: within massive basalt with background alteration (Dark gray and brown)

Size							
Primary mineralogy	Percent present	Percent original	min	max	mode	Shape	Comments
Phenocrysts							
Olivine	0.3	0	0.2	0.5	0.3	subhedral	aphyric
Groundmass/matrix							
Plagioclase	56	55	0.1	1	0.2	bladed	most plagioclase is fresh, minor partial corrosion into cleadonite and saponite
Pyroxene	40	38	0.1	0.4	0.4	subhedral	pyroxene grows around the plagioclase to form a sub-ophitic texture
Olivine	0.2	0	0.1	0.4	0.2	subhedral	replaced by iddingsite
Mesostatis	4						
Opauques	3	0.2		0.3	0.2	subhedral	Opauques are Fe-Ti Oxides (Titanite)
Replacing/ filling							
Secondary mineralogy	Percent		min	max	mode		Comments
Saponite	3						
FeOx1	0.5						
FeOx2	2						
Celadonite1	1						
Celadonite2	1						
Oxides1	0.3						
Oxides2	0.3						
Vesicles							
	Modal	Shape	max	min	mode	Fill percent	Comments
V1	2	subrounded	1.5	0.5	1	100	
Veins							
	Shape	Generation	Avg. thickness (mm)		Infilling		Comments
VN1	irregular	1	0.05		Fe-ox		
VN2	planar		3.5		calcite		
Comments: Microcrystalline to fine grained massive basalt with a sub-ophitic texture and rare altered olivine phenocrysts. Brown halo is diffuse and is composed of Fe-ox replacing interstitial zones. Celadonite is present in small quantities within the dark halo.							



Thin section: 329-U1368F-2R-4-A
Depth CSF-A (m): 13.26-14.43
Rock name: palyric basalt
Grain size: fine grained
Texture: aphyric
Where sampled: massive basalt fragments

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Groundmass/matrix							
Plagioclase	55	52	0.2	1.3	0.2	euohedral	lath like, partial replacement in some crystals
Pyroxene	42	40	0.2	0.6	0.6	subhedral	Most are intergranular. partly replaced by secondary minerals. occasional sub-ophitic texture as pyroxene grows round plagioclase
Olivine	1	0.1	0.2	0.5	0.3	anhedral	most replaced by saponite and Fe-ox
Mesostasis	2						
Opaques	0.4	0.2				subhedral	opaques are partly replaced by titanomagnetite.

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite1	6					
Saponite2	1					
FeOx1	2					
FeOx2	0.5					
Celadonite1	1					
Celadonite2	0.7					
Oxides1	0.5					
Oxides2	0.3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments

Veins	Shape	Generation	Avg. thickness (mm)	Infilling		Comments
VN1	planar	1	0.1	Fe-ox		first evident phase, vein is flanked by an iron oxyhydroxide halo
VN2	planar			saponite		
VN3	planar	2	0.1	saponite		saponite fills discrete portions of the vein, timing is unclear
VN4	planar	2	0.1	phyllosilicate		unknown very fine phyllosilicate

Comments: Massive fine grained aphyric and non-vesicular basalt with brown alteration halo and relatively fresh gray interior.



Thin section: 329-U1368F-4R-1-A_1
Depth CSF-A (m): 28.81-28.83
Rock name: phyric basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: Fractured pillow lavas, chill margin

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	6	5.5	0.3		0.4	lath	Plagioclase is only partially replaced by iddingsite partial to moderate overprinting of saponite phyric, phenocrysts occur within the chilled margin and in the center
Pyroxene	1	0.8	0.2	0.8	0.4	lath	
Groundmass/matrix							
Plagioclase	57	56.5	0.001	0.2	0.1	acicular	plagioclase is spinifex and only partially formed
Pyroxene	17	17	0.001	0.02	0.02	anhedral	pyroxene is not fully developed
Mesostasis	26						crystalline structure not properly formed so large amounts remain in mesostasis
Opaques	2	2		0.04	0.02	subhedral	formed inbetween plagioclase crystals, (possibly fe-ti oxides e.g. magnetite)

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	1					replacement of primary phases are concentrated within the chill margin. Saponite overprints Fe-ox
FeOx	3					
Celadonite	1					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments

Veins	Shape	Generation	Avg. thickness (mm)		Infilling	Comments
			min	max		
VN1	branched	1	0.1		Fe-ox	Branched vein propagates from the chilled margins side.
VN2	branched	1	0.1		Fe-ox	Branched vein propegates from the chilled margins side.
VN3	branched	1	0.1		Fe-ox	Branched vein propagates from the chilled margins side.

Comments: Cryptocrystalline to glassy basalt with distinctive spinifex texture and change in crystal soze across the section. Alteration occurs near the chilled/les schilled margin, which is compsoed of saponite and Fe-ox. Two narrow bands of alteration occur along the contact margin. These are composed of saponite.



Thin section: 329-U1368F-4R-1-A_2
Depth CSF-A (m): 29.48-29.51
Rock name: phyrlic basalt
Grain size: microcrystalline
Texture: glomeroporphyritic
Where sampled: within fractured pillow flows - chill margin and alteration

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	4	4	0.3		0.6	lath	large agglomerations of plagioclase phenocrysts with slight fracturing and alteration
Pyroxene	2	1.5	0.3	1	0.6	subhedral	pyroxene is partially altered
Groundmass/matrix							
Plagioclase	60	58	0.001	0.4	0.2	irregular	shapes range from spinifex, acicular, prismatic to lath-like. Plagioclase within the cryptocrystalline area is spinifex to acicular
Pyroxene	20	18	0.001	0.1	0.1	anhedral	pyroxene is only partially altered
Olivine	1	0	0.01	0.2	0.08	subhedral	olivine is completely replaced
Mesostasis	20						occurs inbetween spinifex plagioclase where the groundmass has only partially formed
Opaques	3	2		1	0.1	bladed	elongate opaques

Secondary mineralogy	Percent	Size			Replacing/filling	Comments
		min	max	mode		
Saponite1	6					
Saponite2	2					pale brown halo saponite replaces olivine, mesostasis. finer grained material is more commonly replaced.
FeOx	2					
Oxides	1					dark gray halo replaces olivine and interstitial areas.

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments

Veins	Shape	Generation	Avg. thickness (mm)	Infilling		Comments
VN1	ribbon	1	0.2	Saponite		
VN2	ribbon	1	0.2	Fe-rich saponite		Fe staining of saponite, relative history of emplacement is not clear

Comments: Glomeroporphyritic to spinifex basalt within chill margin zone. Overall basalt is phyrlic, lath like plagioclase and pyroxene phenocrysts. Alteration consists of saponite and Fe-ox within a brown to red-brown halo that are concentrated within the cryptocrystalline spinifex regions. Olivine is totally replaced by saponite and Fe-ox, one anastomosing Fe-rich saponite is present.



Thin section: 329-U1368F-5R-2-A
Depth CSF-A (m): 39.96-39.99
Rock name: sparsely phyric basalt
Grain size: cryptocrystalline
Texture: intergranular
Where sampled: within massive microcrystalline basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	1	1	0.3		0.4	prismatic	plagioclase occurs in close proximity to other phenocrysts, alteration is slight with some staining by saponite
Pyroxene	0.3	0.3	0.3	0.6	0.4	subhedral	occurs in conjunction with plagioclase
Olivine	0.2	0	0.2	0.6	0.4	subhedral	replaced by iddingsite replacement of olivine is present throughout the section. Pseudomorph is only indicator of olivine in this thin section
Groundmass/matrix							
Plagioclase	57	56	0.01	0.3	0.2	bladed	plagioclase partially corroded in places but otherwise forms part of the intergranular groundmass.
Pyroxene	35	30	0.02	0.1	0.1	anhedral	pyroxene is intergranular with plagioclase. pyroxene is slightly more altered than plagioclase
Mesostasis	3						mesostasis is partially altered
Opagues	3	1		0.1	0.02	blocky	the majority of opaques are secondary. Primary Fe-Ti oxides are replaced/alterd to titanomagnetite

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite1	5					Brown alteration halo contains saponite and iron-oxyhydroxides background includes saponite and minor celadonite
Saponite2	1					
FeOx1	2					
FeOx2	0.1					
Celadonite1	0.1					
Celadonite2	0.1					
Oxides1	2					
Oxides2	2					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments

Veins	Shape	Generation	Avg. thickness (mm)		Infilling	Comments
			max	min		
VN1	curved	1	0.3		Fe-ox	Fe-ox are present on the vein margin. Perpendicular offshoots with Fe-ox are present. Halo consists of Fe-ox and saponite
VN2	curved	2	0.3		saponite	saponite is present within the center of the vein. Dark brown colour suggests intermixing multi-layered clay structure

Comments: microcrystalline, intergranular sparsley phyric basalt with minor alteration in the form of a Fe-ox and saponite vein and halo. Phenocrysts are composed of plagioclase and pyroxene, which are partially corroded on the edges. Saponite is dark brown and thus probably not pure, maybe an Fe-rich interlayered clay. Most opaques are secondary (titanomagnetite)



Thin section: 329-U1368F-6R-1-A
Depth CSF-A (m): 44.1-44.15
Rock name: phyrlic basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: Fractured pillow lavas with chill margin

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	4	3	0.2		0.4	lath	plagioclase is relatively unaltered compared to the groundmass
Pyroxene	1	0.7	0.2	0.7	0.4	subhedral	
Groundmass/matrix							
Plagioclase	60	20	0.001	0.1	0.04	acicular	highly latered spinifex
Pyroxene	20	1	0.001	0.03	0.03	anhedral	very hard to give primary value since alteration is high and pervasive
Mesostasis	30						mesostasis in between the spinifex plagioclase where groundmass is not completely formed
Opaques	4	1		0.2	0.02	irregular	most original opaques are microcrysts within the groundmass

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	20					replacement and overprinting is pervasive. Original structure is lost in ~80% of the surface
FeOx	30					
Oxides	4					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	0.01	Rounded	0.1	0.1	0.1	100	only one found

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			

Comments: highly altered chill margin with cryptocrystalline spinifex texture. Plagioclase and pyroxene phenocrysts are present throughout the section.



Thin section: 329-U1368F-7R-2-W 70/73-TS_52
Depth CSF-A (m): 49.54-49.57
Rock name: phyric basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	6	8	2.4		0.3	lath	
Pyroxene	1.5	3	0.4	<0.2	0.3		

Groundmass/matrix

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	0.2					saponite replaces olivine and pyroxene
FeOx	0.3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	0.2	rounded	0.8	0.2	0.4	95	

Veins	Shape	Generation	Avg. thickness (mm)	Infilling	Comments
VN1	branched		0.15	Fe-ox	

Comments: moderately altered pillow basalt, the chill margin is altered to higher extent than the inner part



Thin section: 329-U1368F-9R-1-W 52/55-TS_53
Depth CSF-A (m): 63.12-63.15
Rock name: aphyric basalt
Grain size: fine grained
Texture: ophitic
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Groundmass/matrix							
Plagioclase	10	15	<0.02	1.5	0.4	lath	
Pyroxene	5	10	0.05	0.4	0.4	irregular	

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite	5					saponite replaces pyroxene
FeOx	3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	1	subrounded	0.3	0.1	0.2	5	

Veins	Shape	Generation	Avg. thickness (mm)	Infilling	Comments
VN1	planar		0.1	saponite	

Comments: moderately altered fine grained basalt, the brown color is caused by secondary mineral-saponite and Fe-ox



Thin section: 329-U1368F-9R-1-W 85/87-TS_54
Depth CSF-A (m): 63.45-63.47
Rock name: moderately phyric basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size		mode	Shape	Comments
			min	max			
Phenocrysts							
Plagioclase	5	6	0.03		0.15	lath	
Pyroxene	2	4	0.05	0.3	0.15	irregular	
Groundmass/matrix							
Plagioclase	10	15		0.02		needle	most are cryptocrystalline
Pyroxene	1	2		0.01	0.01	subhedral	completely altered, groundmass is visible in small edges around the edge of

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite	2					saponite usually replaces pyroxene
FeOx	1					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	1	rounded	0.67	0.04	0.1	80	

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			
VN1	curved		0.7		saponite	

Comments: slightly altered pillow basalt, most pyroxene are altered to saponite, plagioclase are mostly unaltered.



Thin section: 329-U1368F-10R-2-W 0/6-TS_55
Depth CSF-A (m): 68.07-68.13
Rock name: aphyric basalt
Grain size: microcrystalline
Texture: ophitic
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	2	2.5	0.8			lath, wide	the phenocrysts are usually altered to certain extent
Pyroxene	0.2	0.25	0.8	2		enlongated	
Groundmass/matrix							
Plagioclase	25	30	0.1	0.5	0.4	lath	
Pyroxene	5	8	0.05	0.2	0.2	irregular	
Opaques	5	5		0.2	0.01	irregular	

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	2					
FeOx	6					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	8	rounded	1.2	0.1	0.6	30	saponite in the vesicles is usually on the margin

Veins	Shape	Generation	Avg. thickness (mm)	Infilling	Comments

Comments: the basalt is composed of moderate and slight alteration zones



Thin section: 329-U1368F-12R-1-W 2/3-TS_57
Depth CSF-A (m): 85.92-85.93
Rock name: moderately phyric basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Plagioclase	5	6	0.1		0.2	needle	
Pyroxene	1	4	0.05	0.4	0.2		
Olivine	0.2	0.4		0.35		pentagon	
Groundmass/matrix							
Plagioclase	5	6		0.04		needle	mostly are too small crystals
Pyroxene	1	3					

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
Saponite	2					saponite replaces pyroxene and olivine

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	1	subrounded	0.4	0.1	0.3	70	some vesicle only filled on their margin

Veins	Shape	Generation	Avg. thickness (mm)	Infilling	Comments

Comments: slightly altered basalt



Thin section: 329-U1368F-12R-2-W 13/16-TS_58
Depth CSF-A (m): 87.53-87.56
Rock name: moderately phyrlic basalt
Grain size: cryptocrystalline
Texture: spinifex
Where sampled: pillow basalt

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Groundmass/matrix							
Plagioclase	12	15	0.05	0.8	0.4	lath	
Pyroxene	7	14	0.04	0.3	0.3	irregular	
	5	5		0.2	0.1	rectangular	

Secondary mineralogy	Percent	min	max	mode	Replacing/ filling	Comments
FeOx	3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	2	rounded	1.4	0.7		10	
V2	1	rounded	1.4	0.8	1	15	
V3	8	rounded	1.4	0.02	0.6	80	

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			
VN1	branched		0.8		iron oxide	

Comments: moderately altered basalt, big vesicles filled with saponite, celadonite and carbonate from margin to center



Thin section: 329-U1368F-12R-4-W 53/56-TS_59
Depth CSF-A (m): 90.46-90.49
Rock name: aphyric basalt
Grain size: fine grained
Texture: ophitic
Where sampled: massive lava flow

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							
Groundmass/matrix							
Plagioclase	30	35	0.1	1.2	0.5	lath	
Pyroxene	15	50	0.08	0.25	0.25	irregular	
	5	5		0.25		irregular	

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	8					saponite replaces groundmass

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	0.5	subrounded	0.2			95	

Veins	Shape	Generation	Avg. thickness		Infilling	Comments
			(mm)			

Comments: the alteration front is moderately altered, the inner part is slightly altered



Thin section: 329-U1368F-14R-1-W 56/59-TS_61
 Depth CSF-A (m): 105.66-105.69
 Rock name: basalt glass breccia
 Grain size: coarse grained
 Texture: intersertal
 Where sampled: breccia

Primary mineralogy	Percent present	Percent original	Size			Shape	Comments
			min	max	mode		
Phenocrysts							

Groundmass/matrix

Secondary mineralogy	Percent	Size			Replacing/ filling	Comments
		min	max	mode		
Saponite	3					

Vesicles	Modal	Shape	max	min	mode	Fill percent	Comments
V1	1	rounded	0.6	0.05	0.1	5	vesicles are not entirely filled, Fe-ox phase may occur alone or secondary to
V2	1	rounded	0.6	0.05	0.1	30	vesicles are not entirely filled

Veins	Shape	Generation	Avg. thickness (mm)		Infilling	Comments
VN1	network		0.05		silicates, Fe-ox	

Comments: highly altered basalt glass