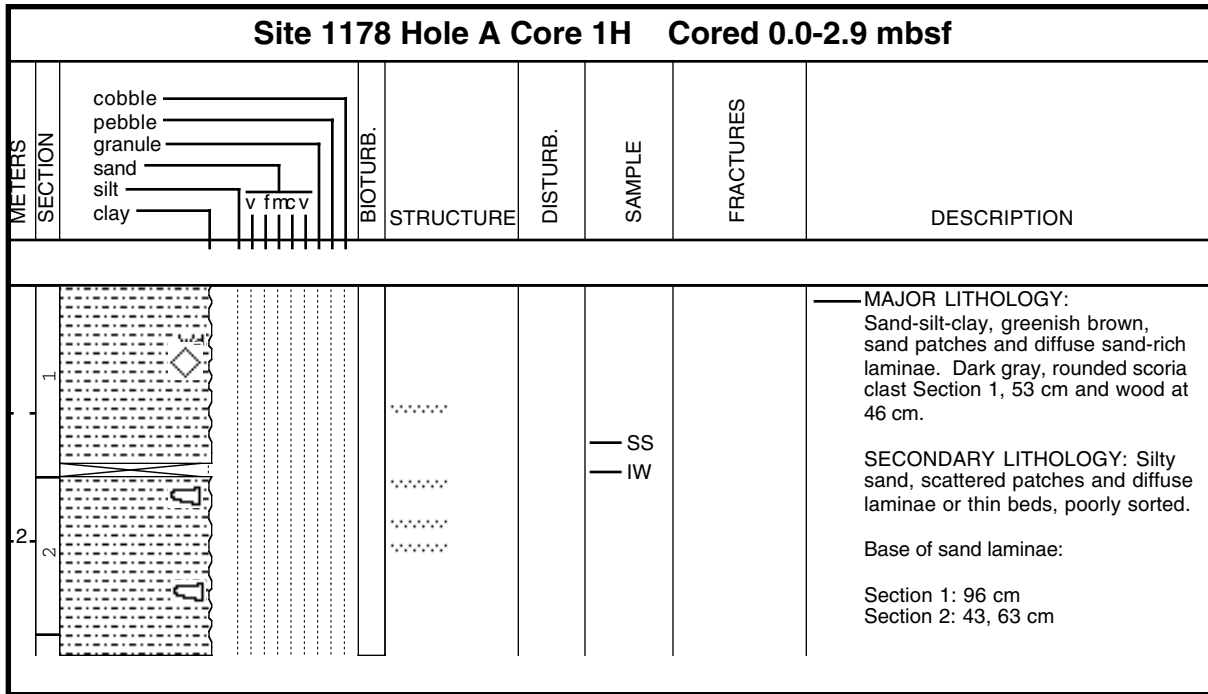
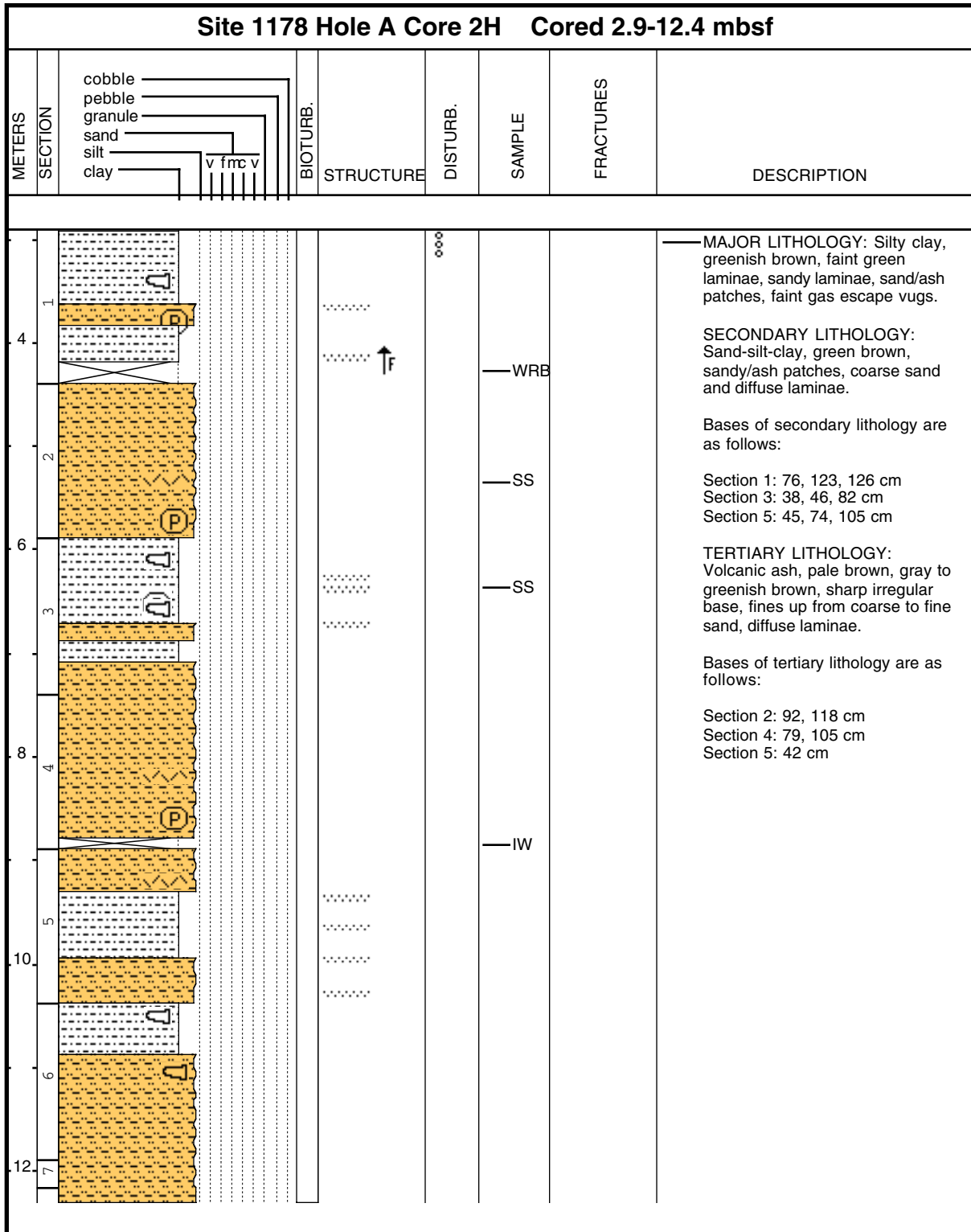


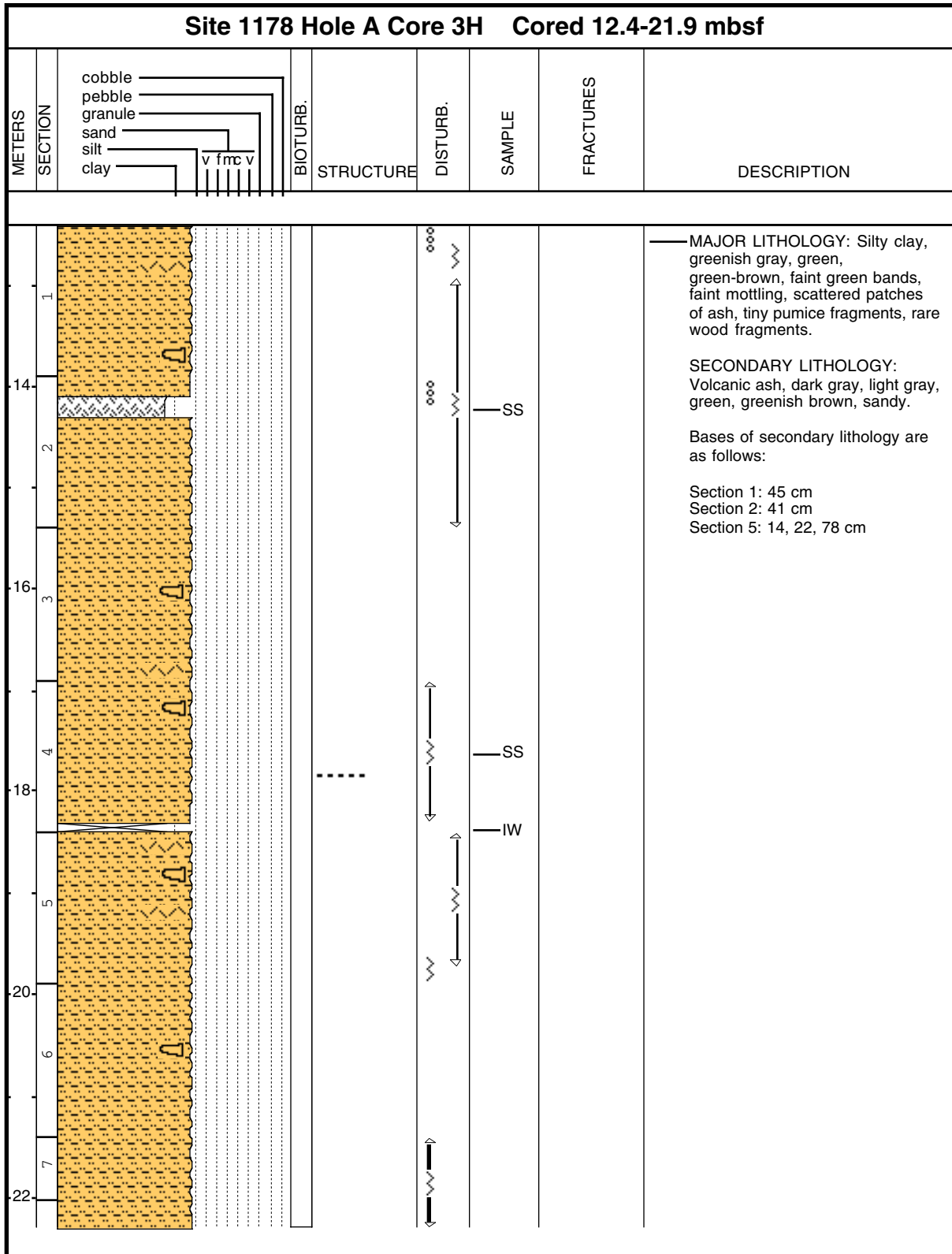
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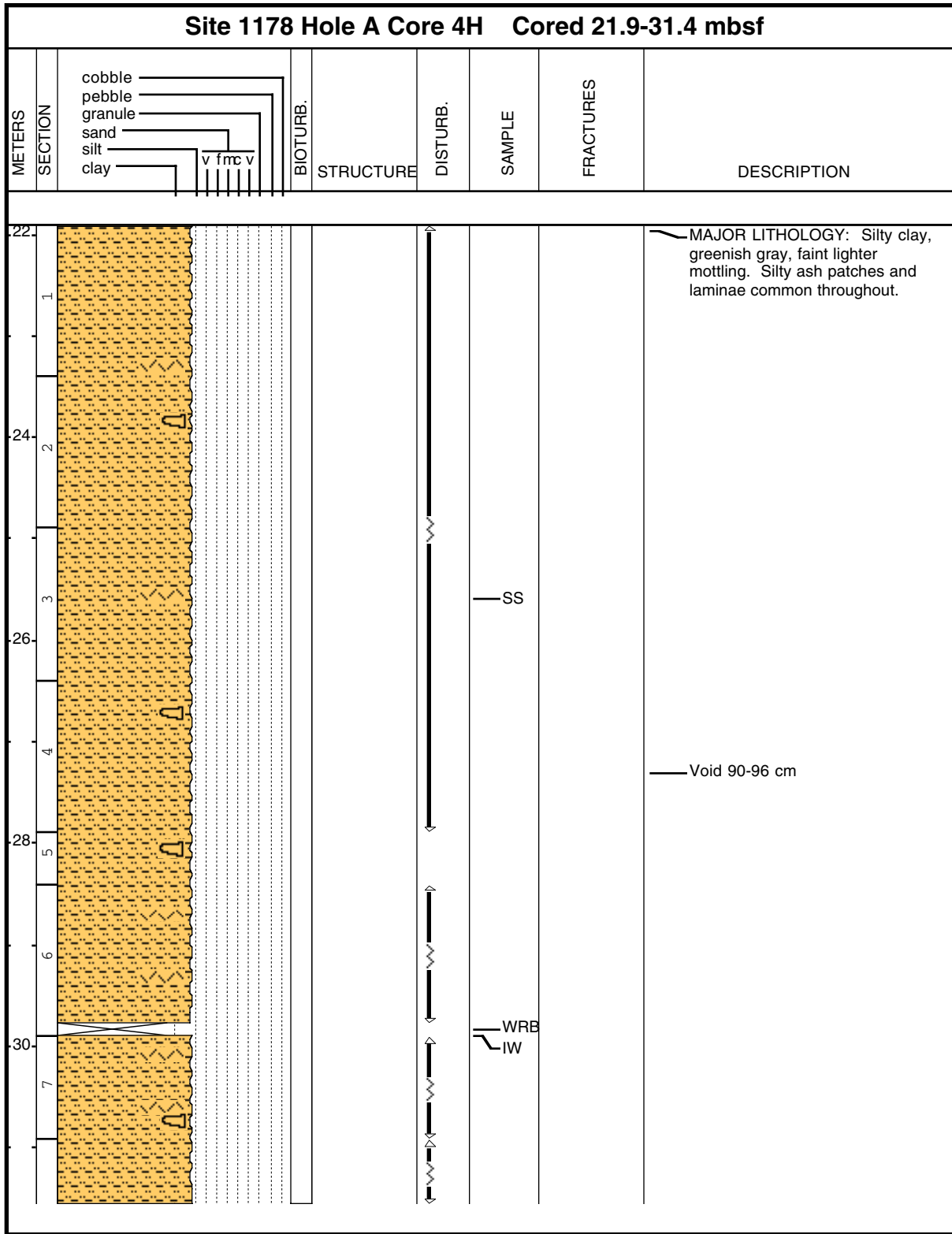
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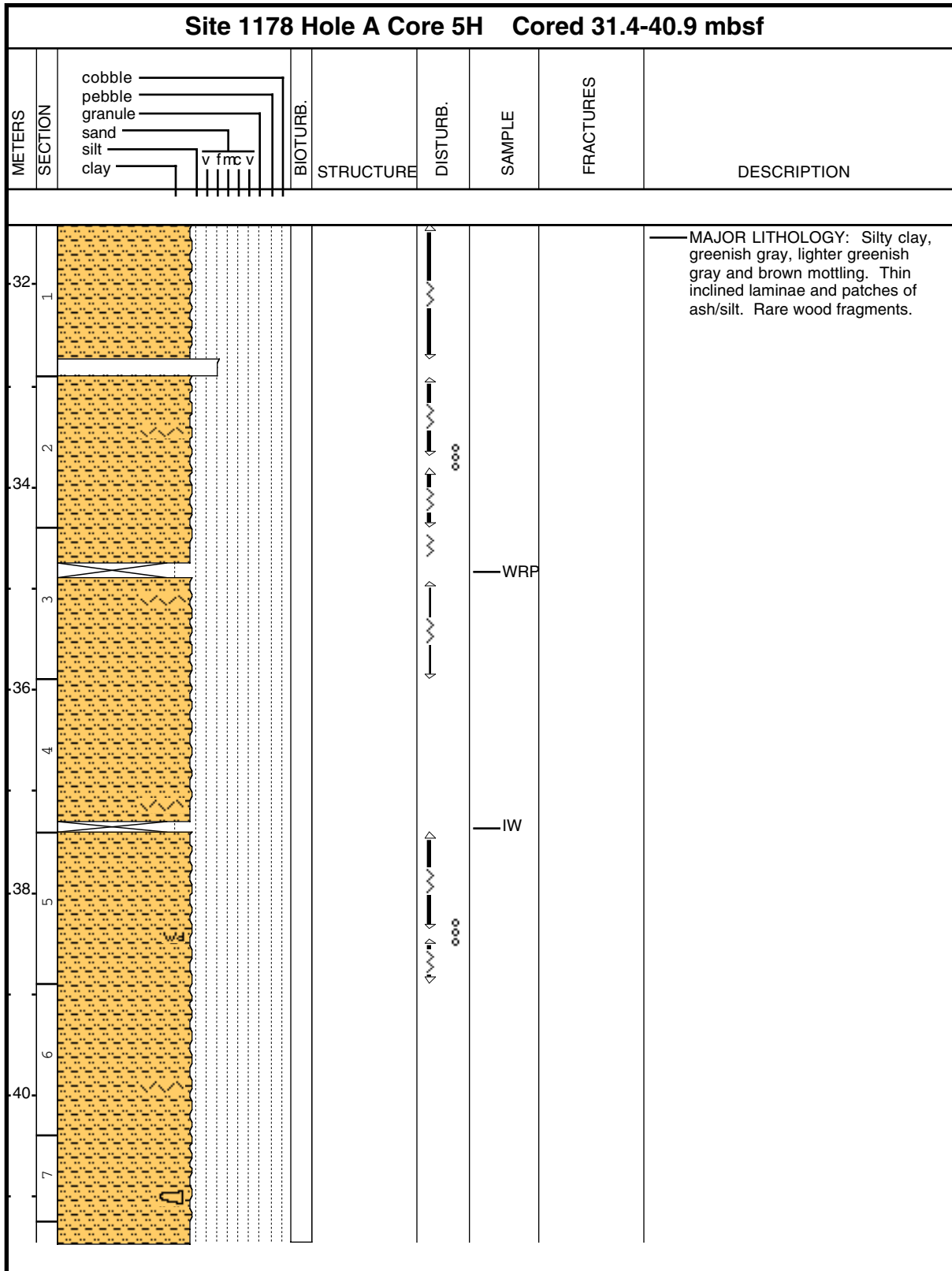
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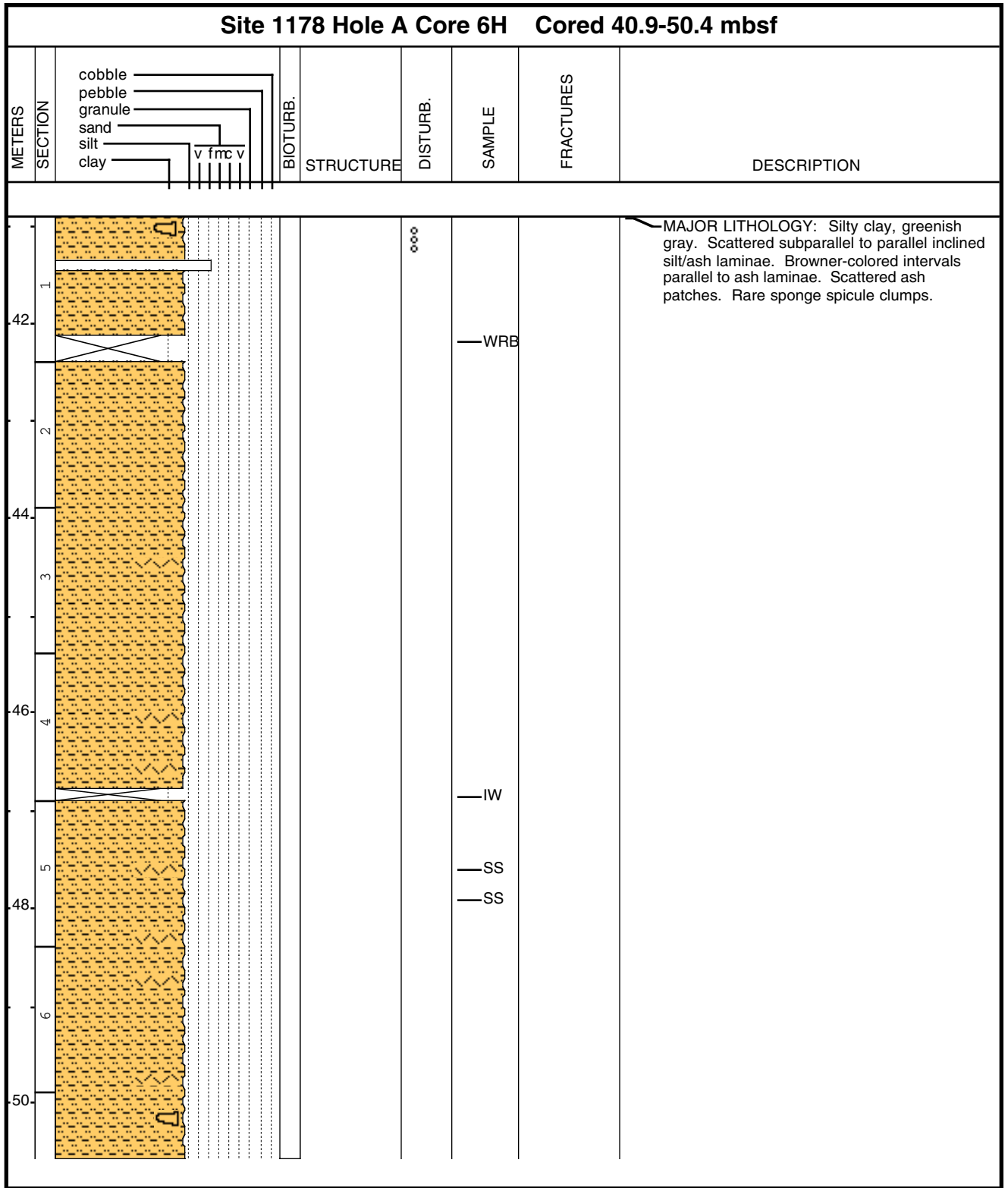
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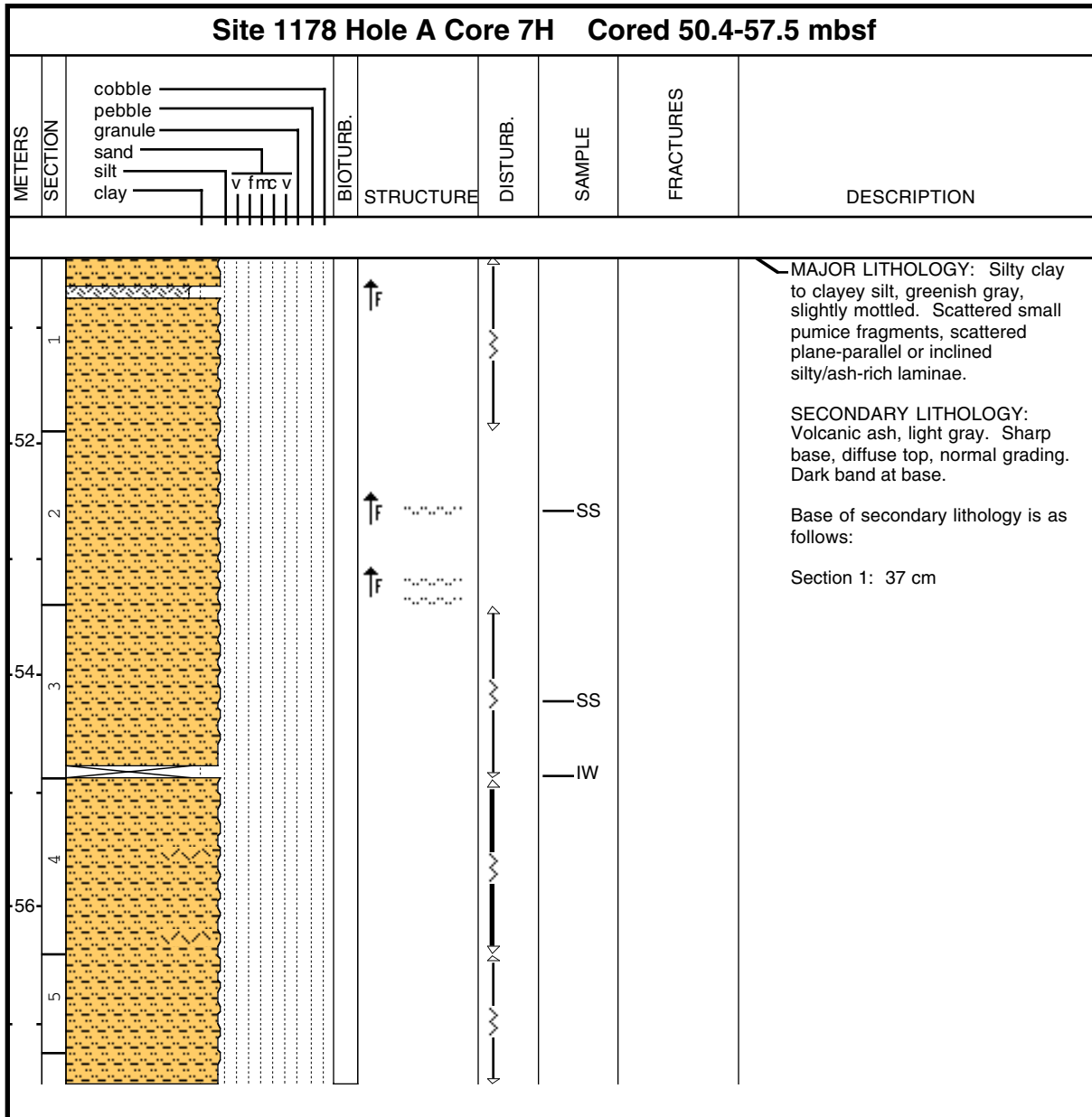
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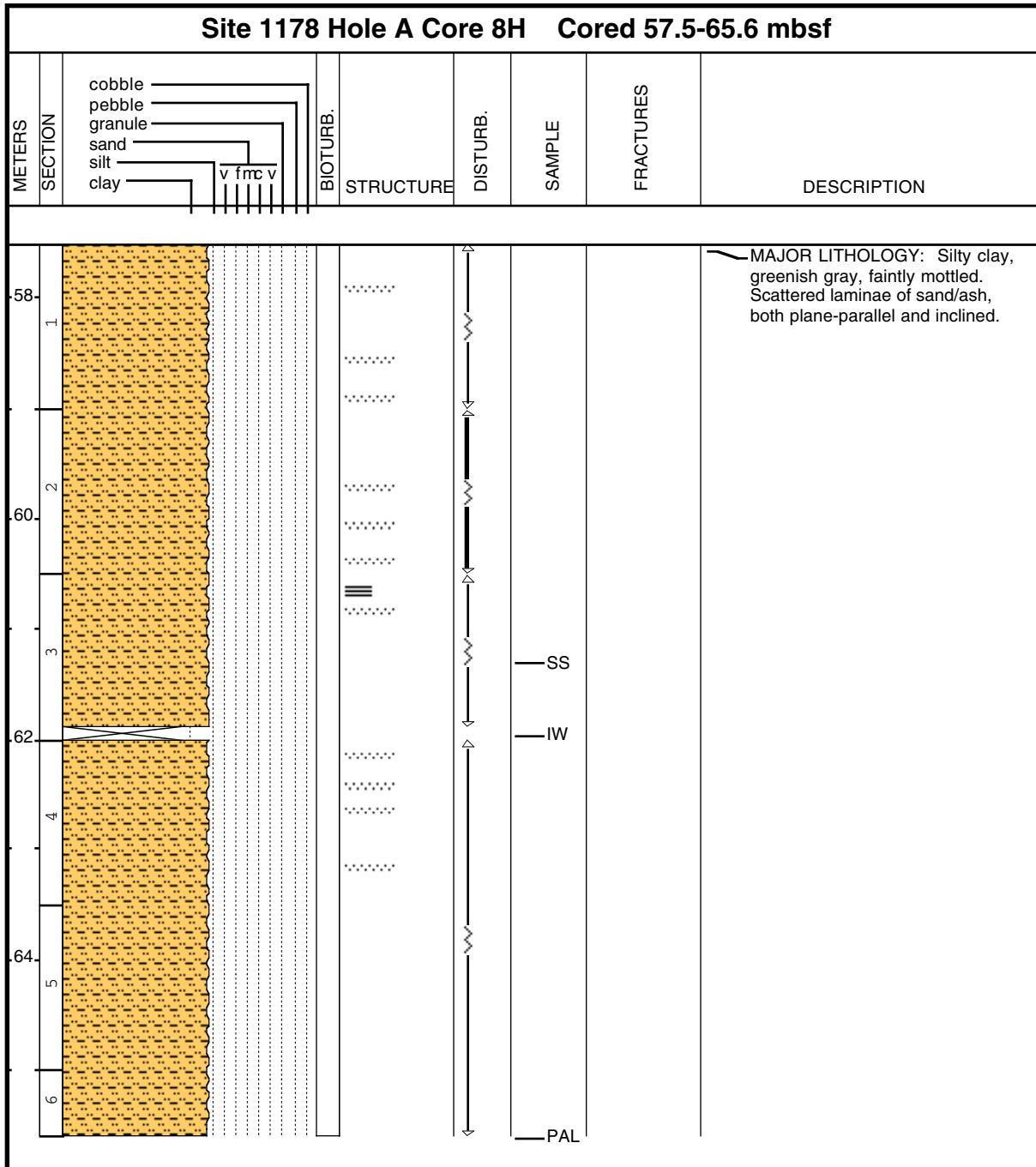
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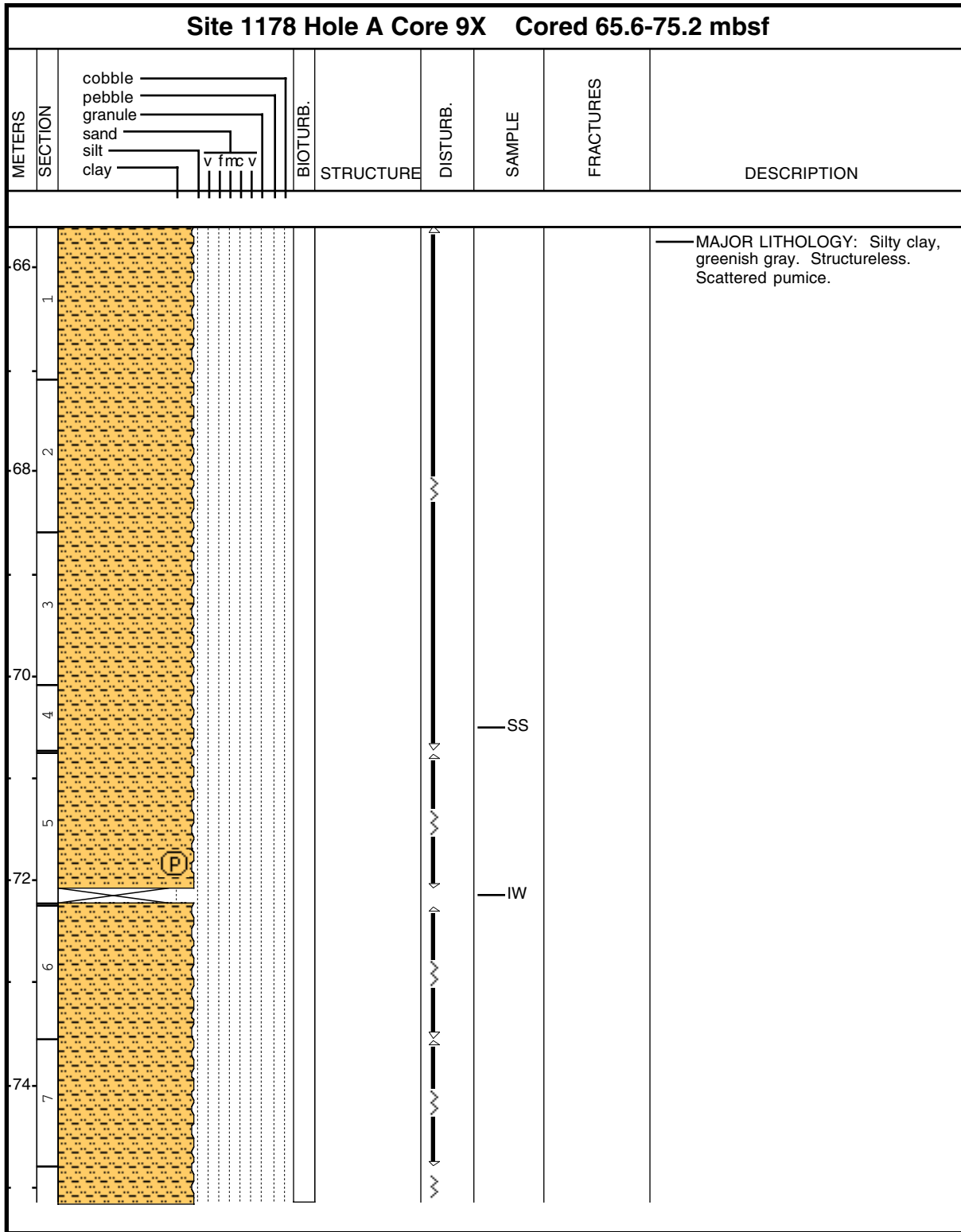
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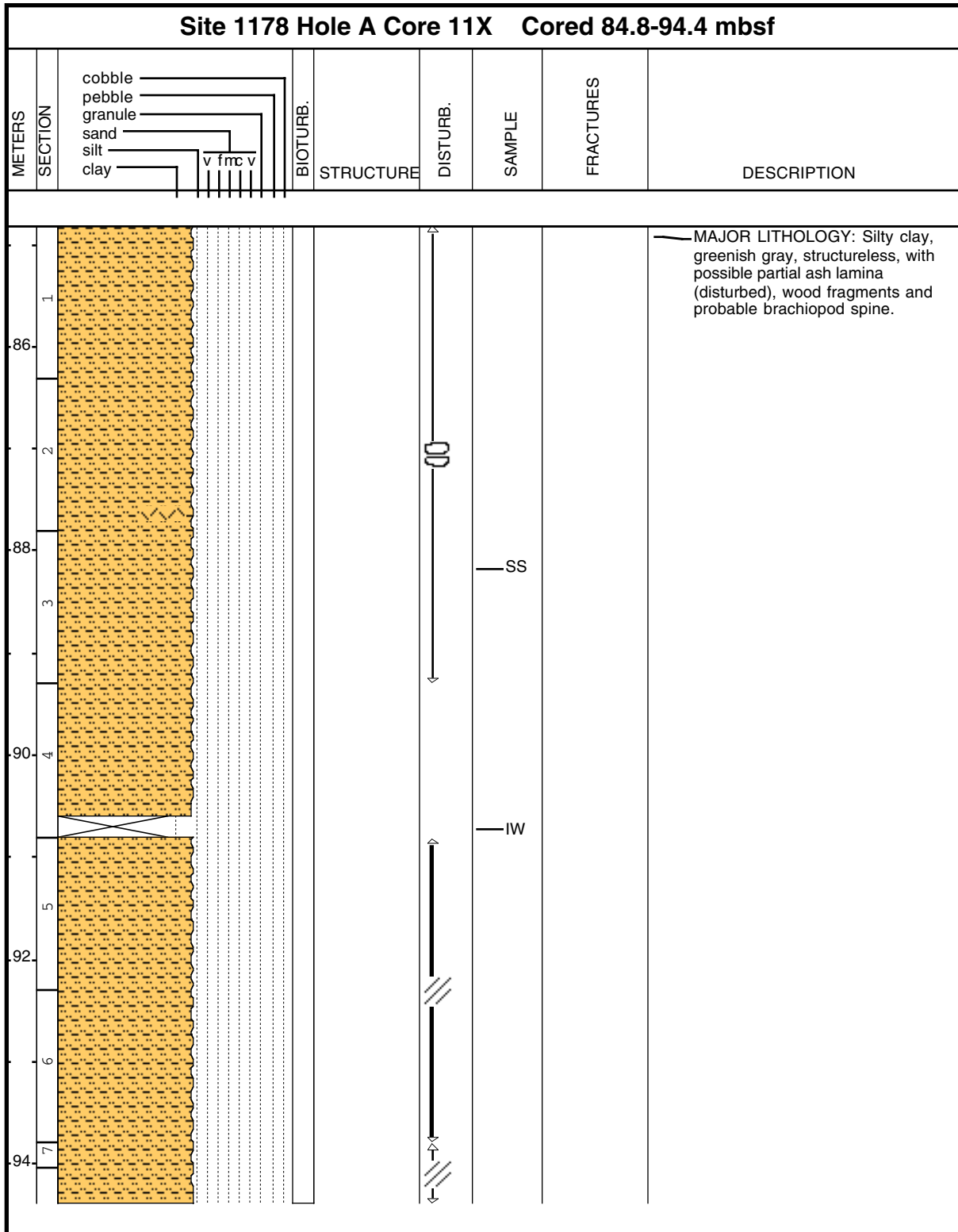


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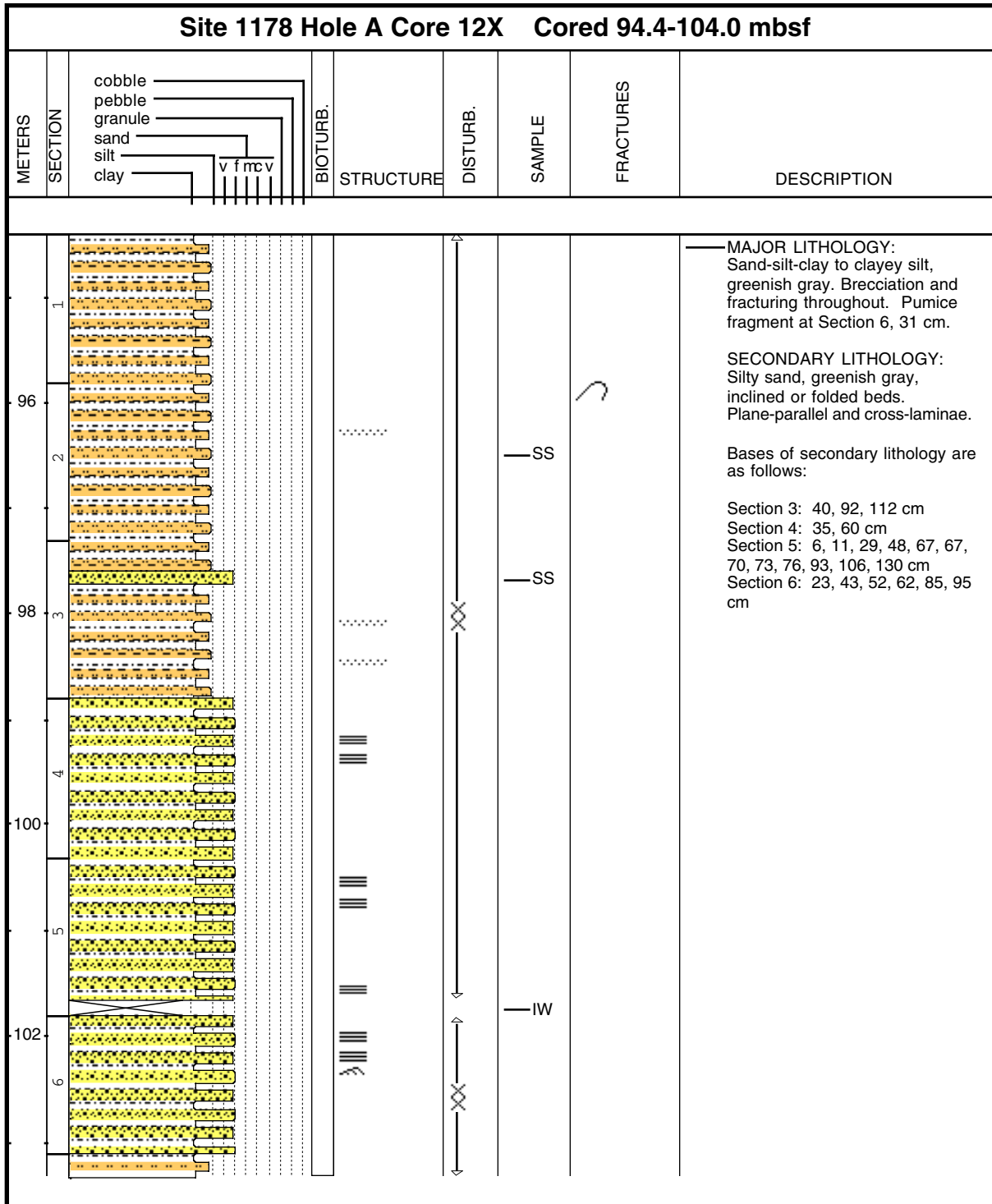


1178A-10X NO RECOVERY

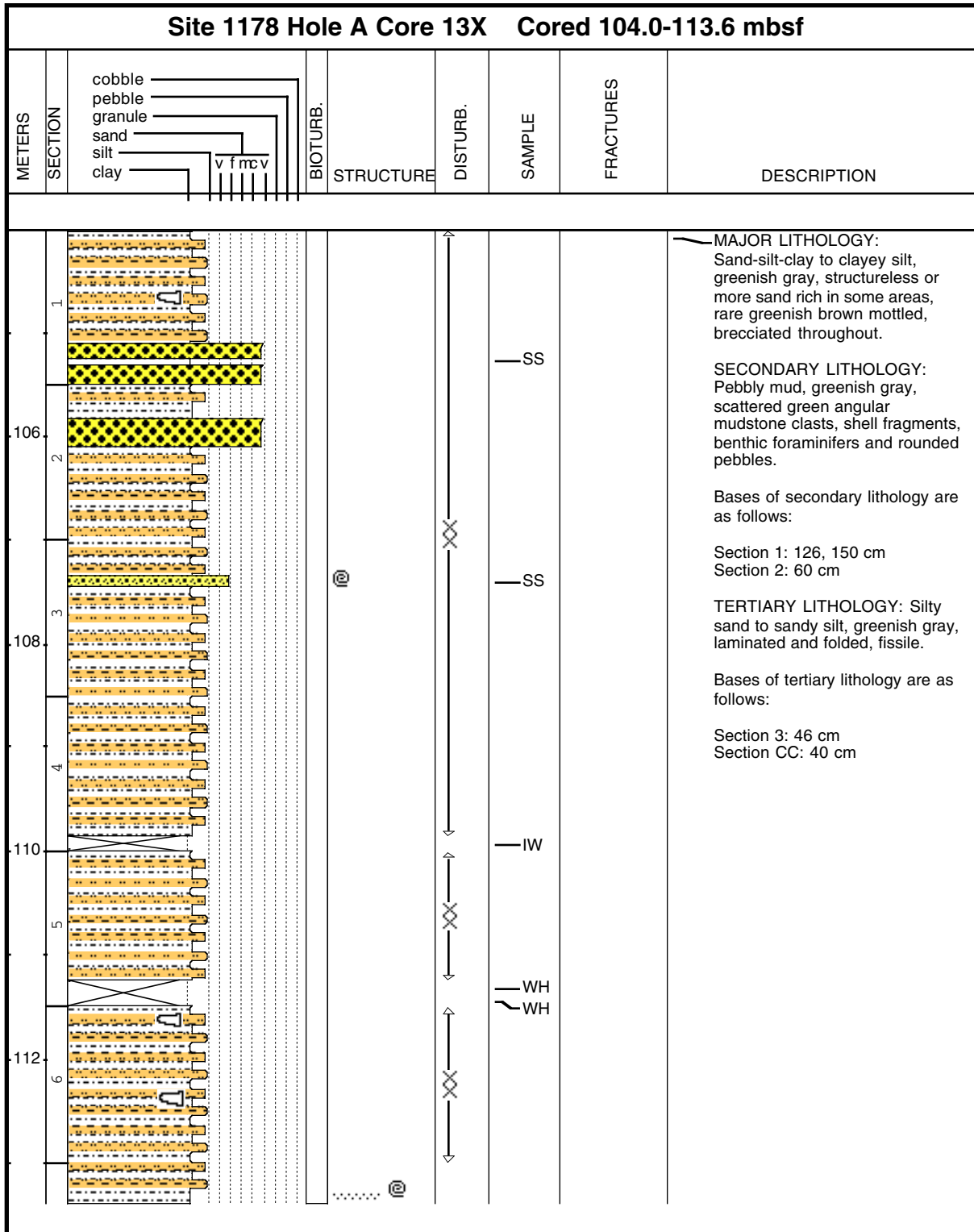
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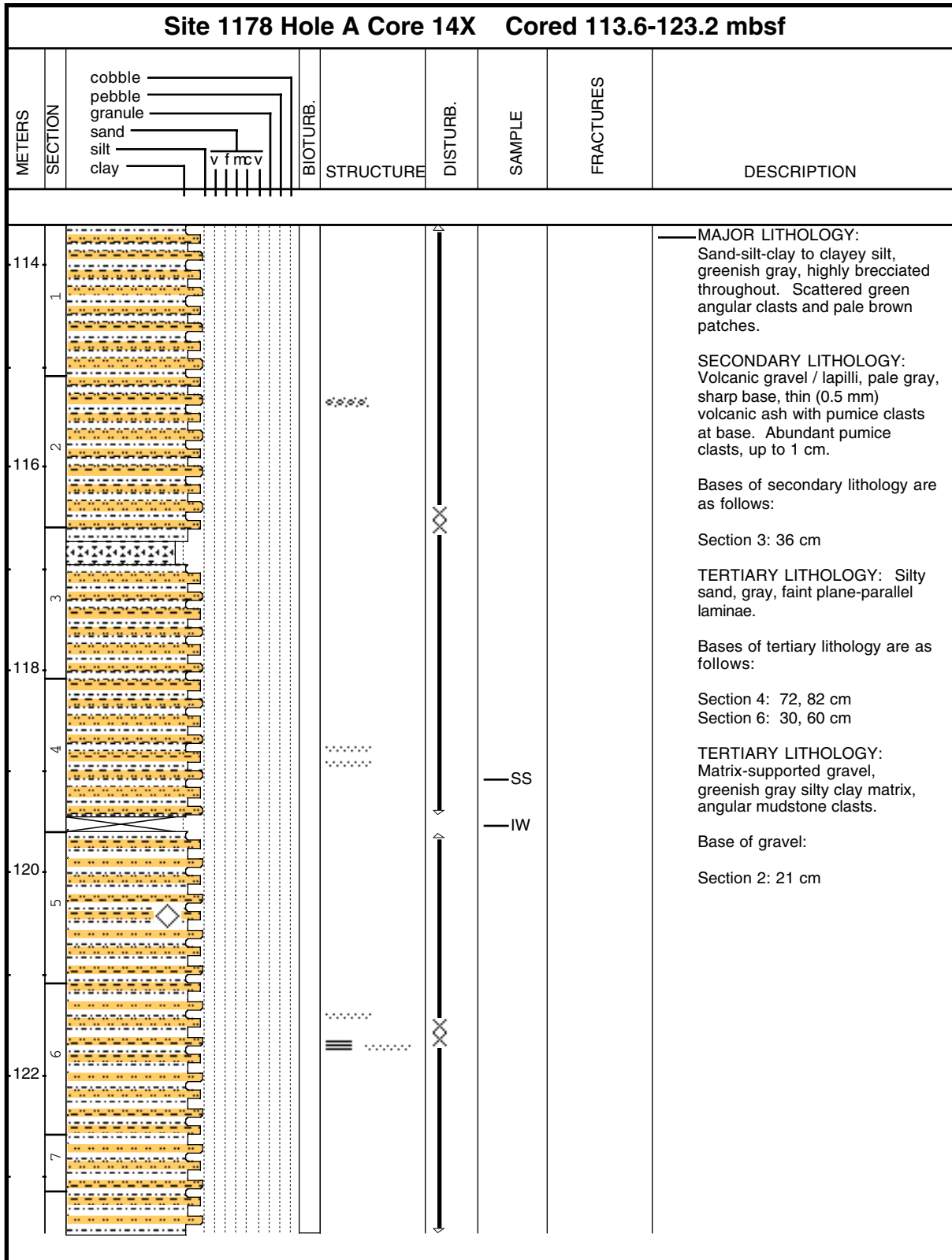
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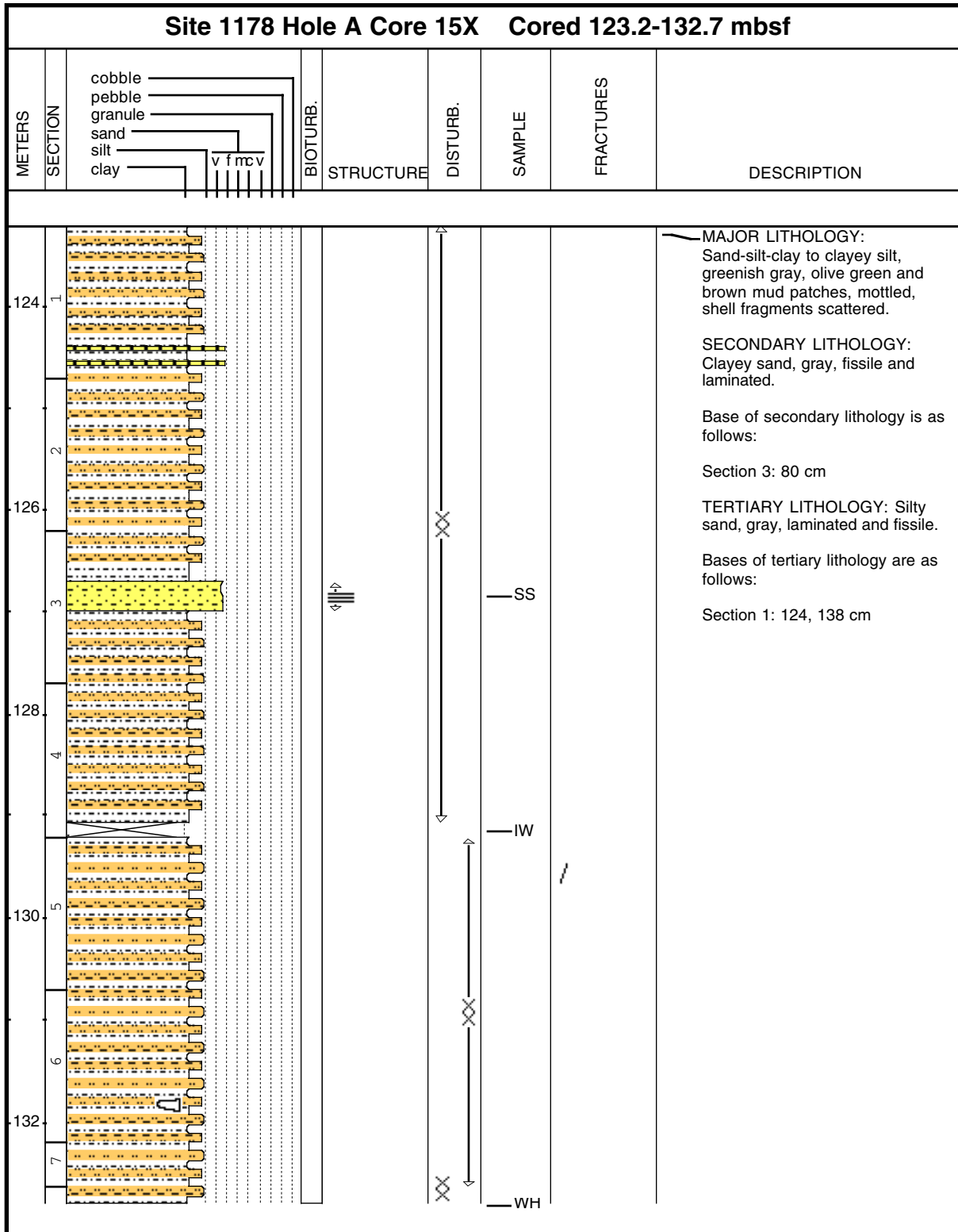
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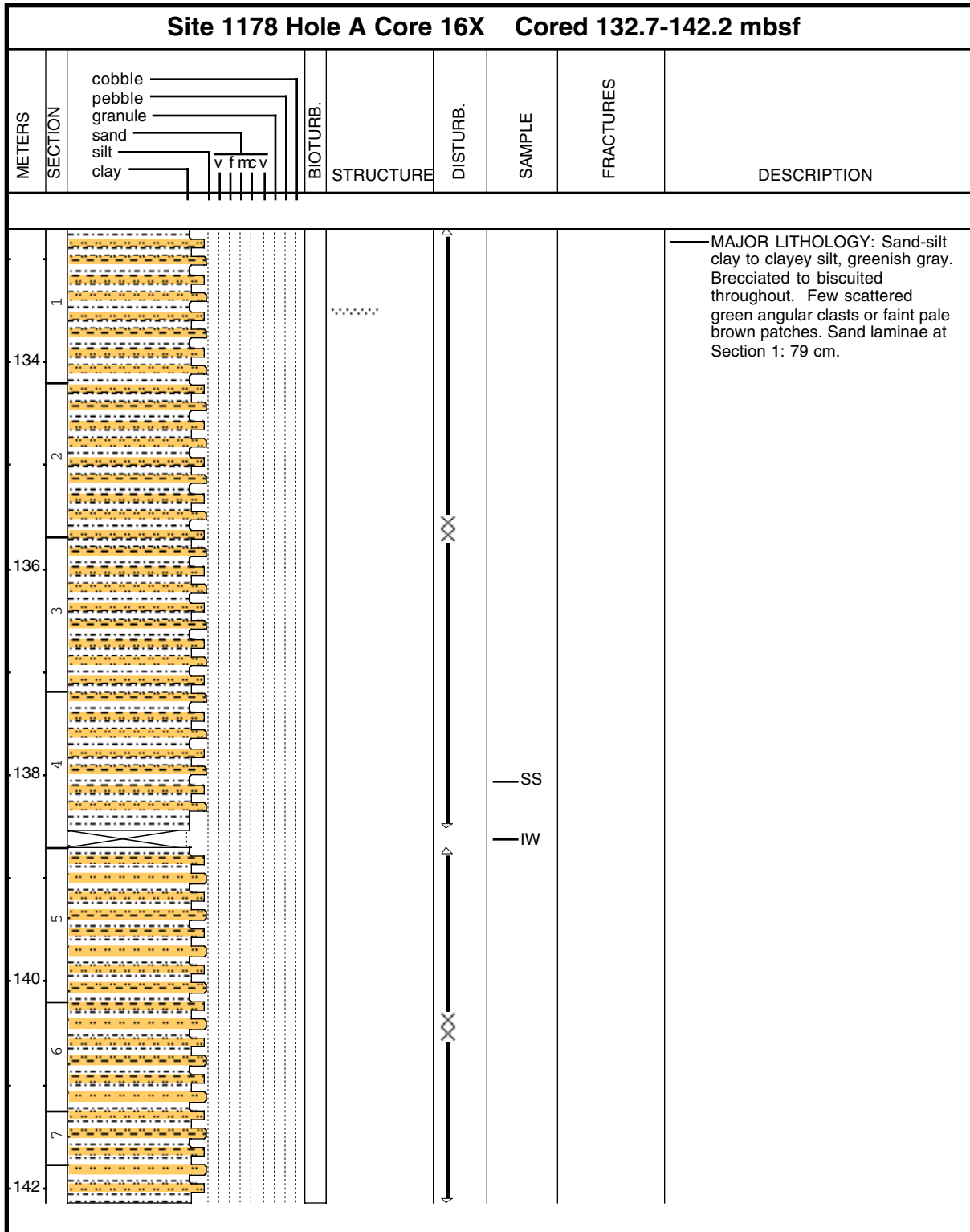
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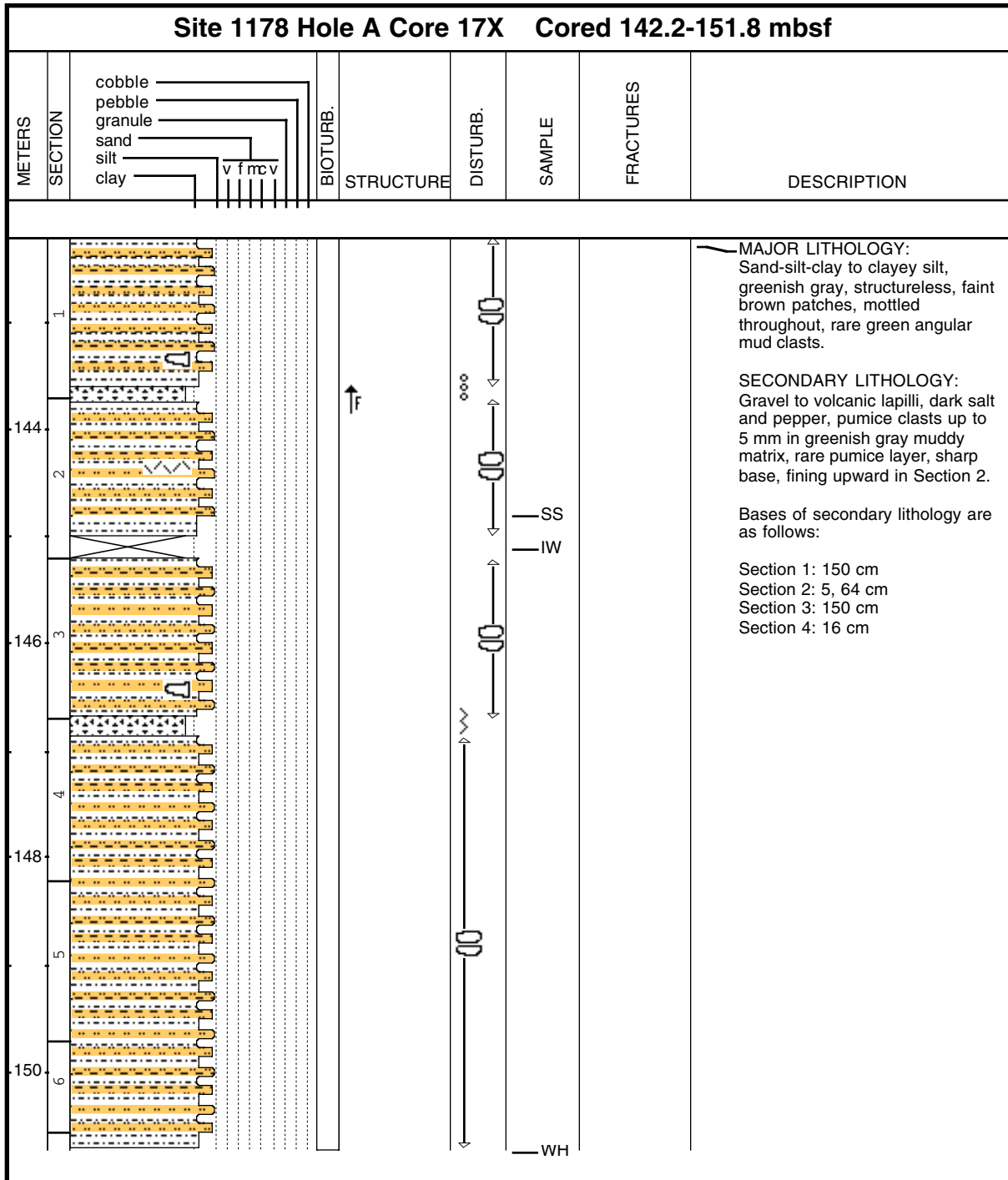
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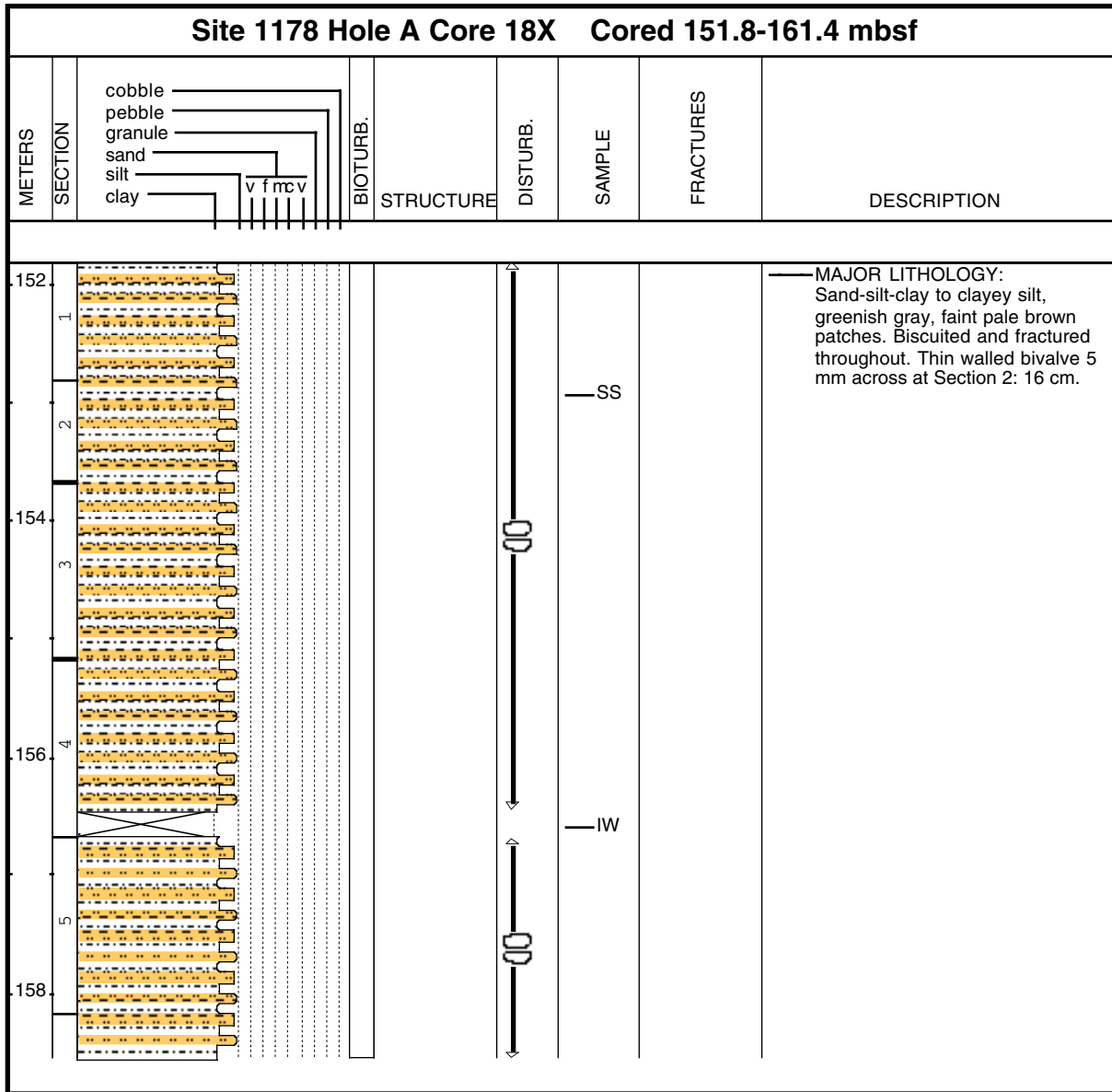
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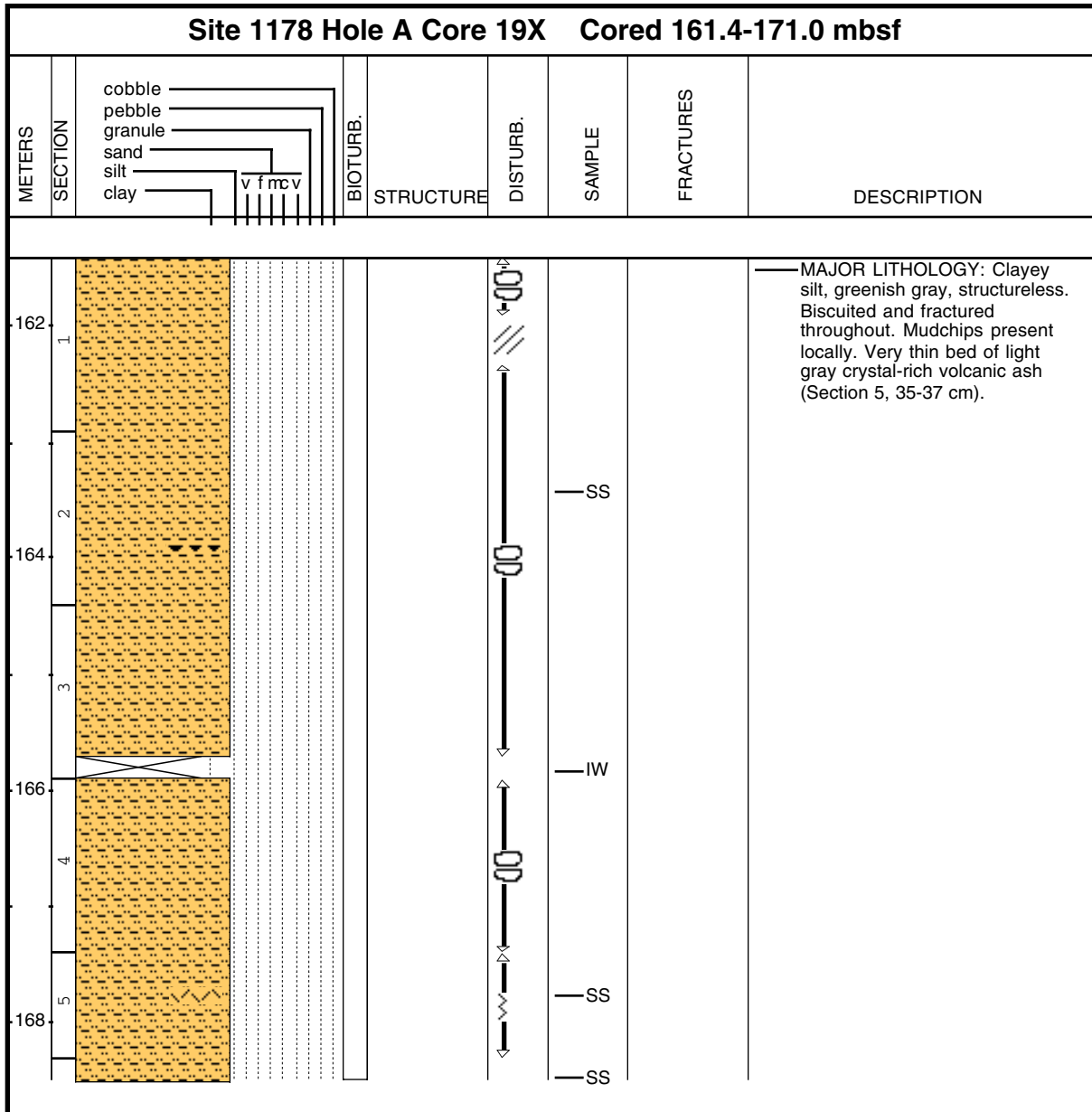
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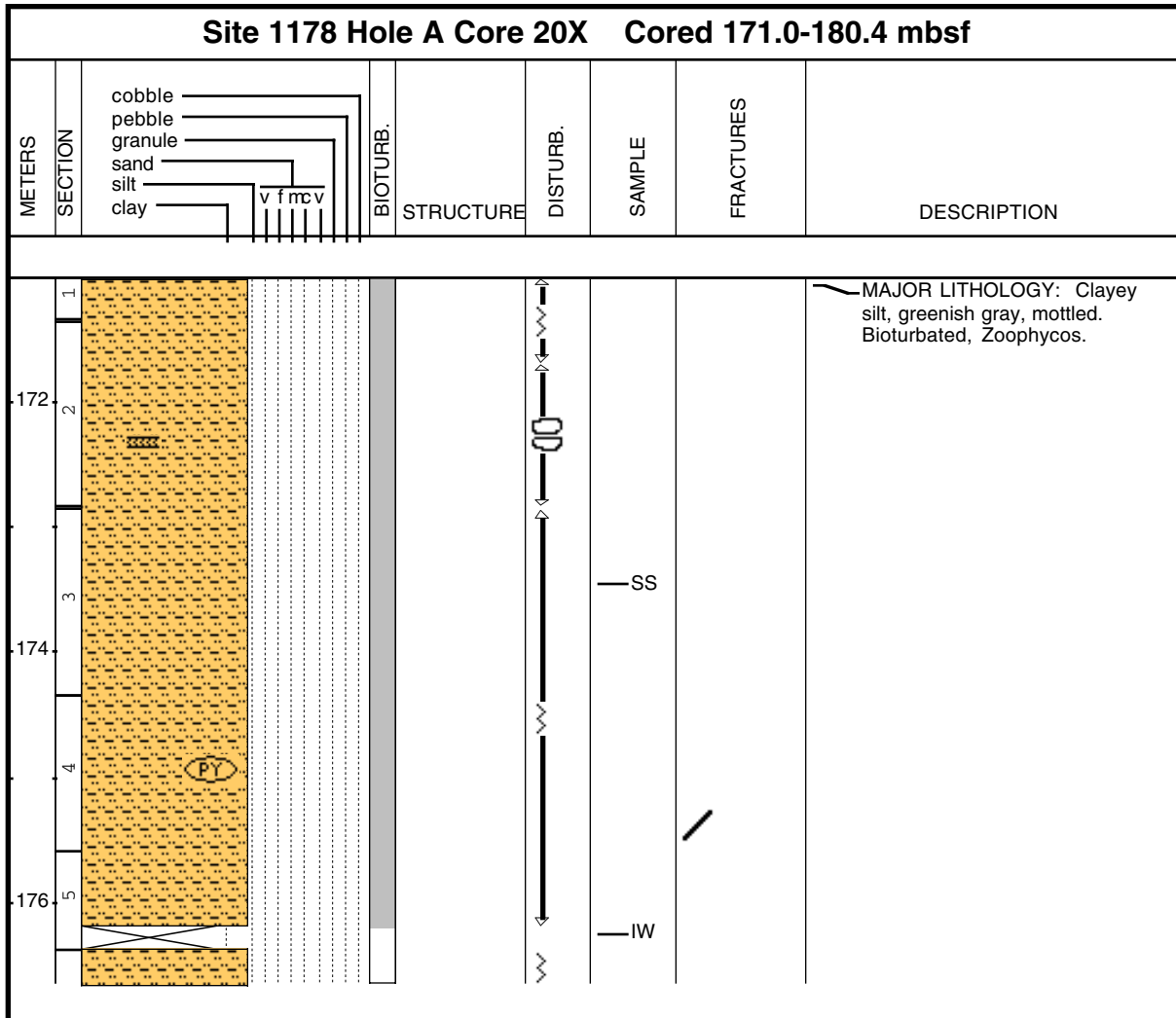
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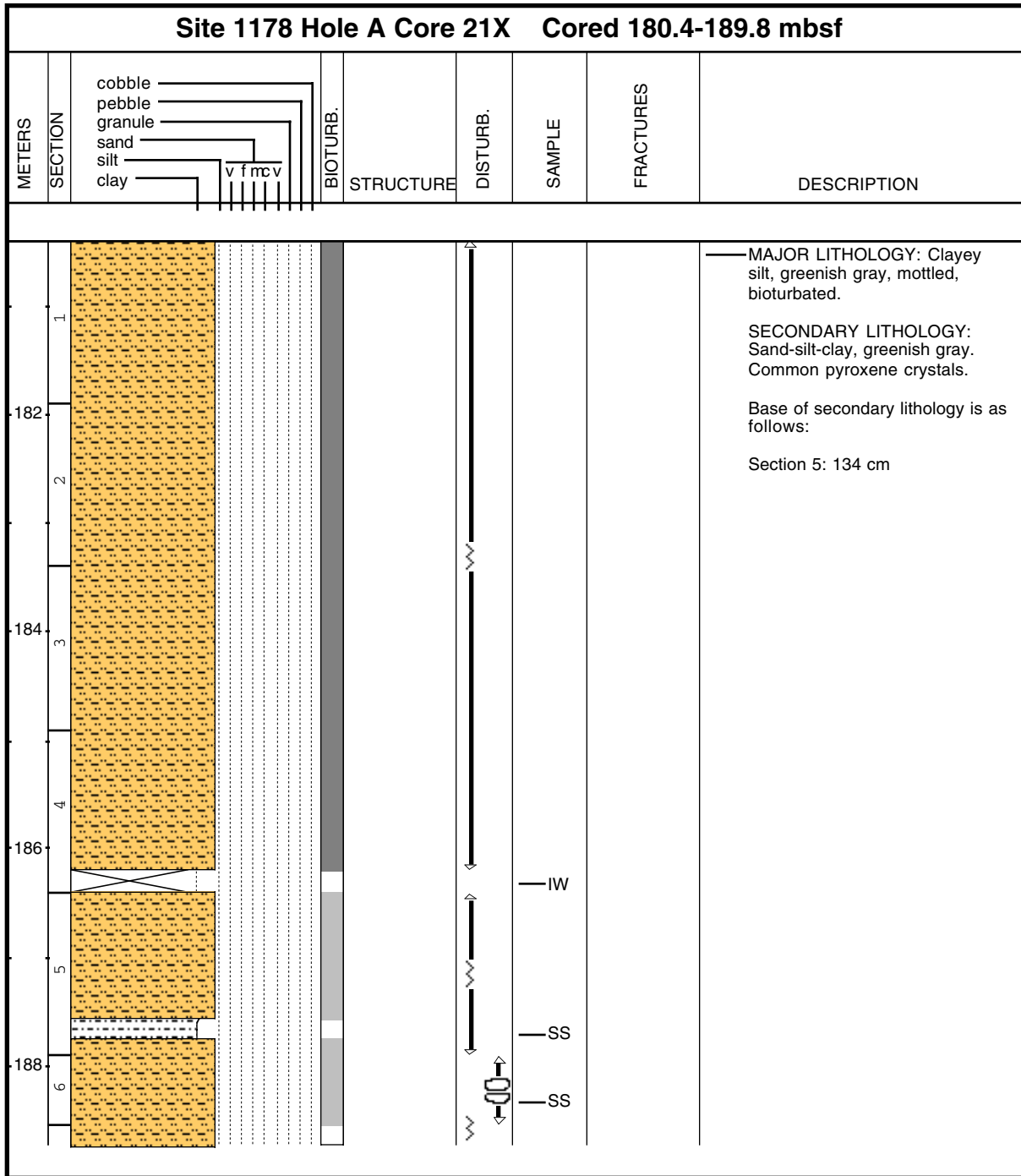
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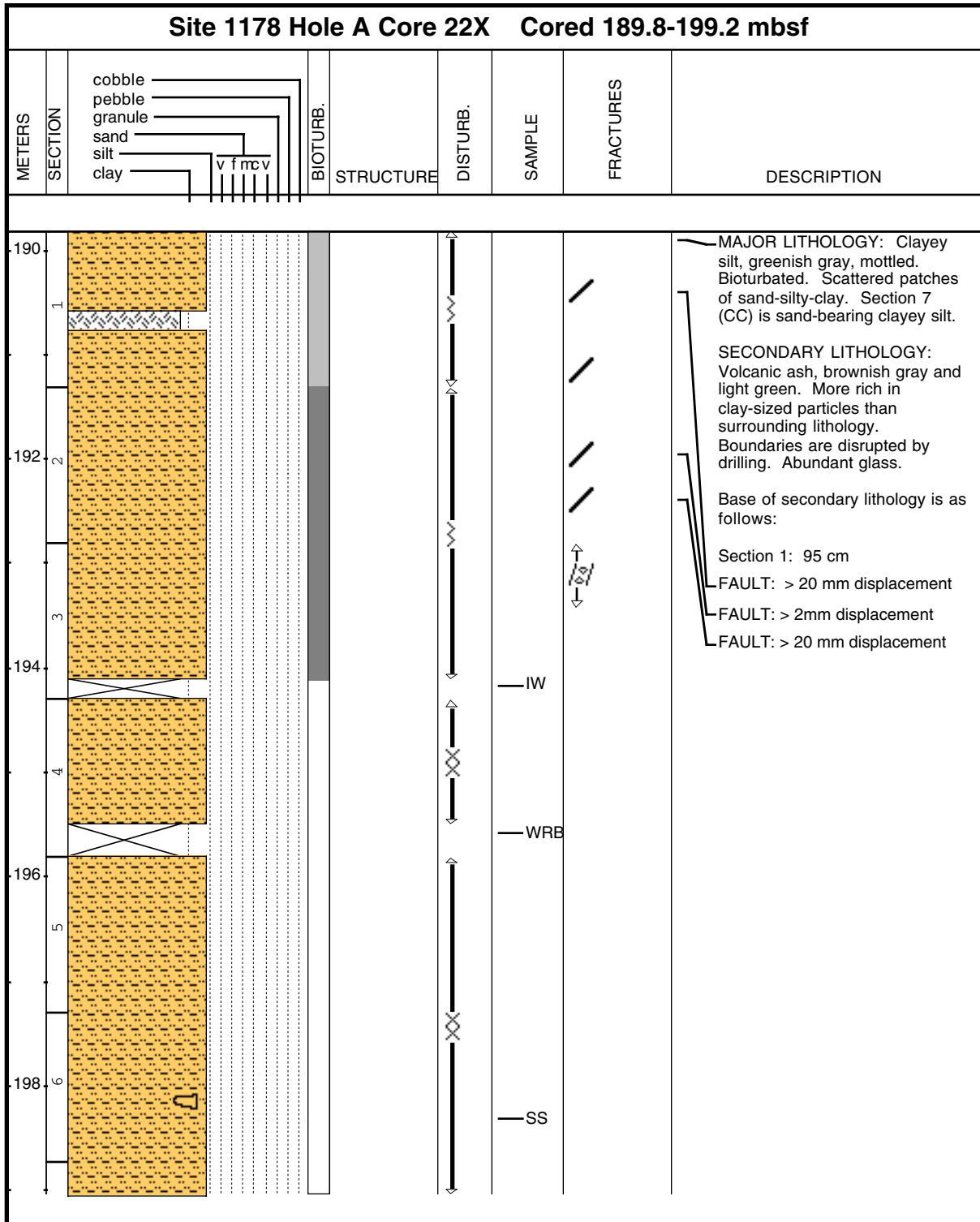
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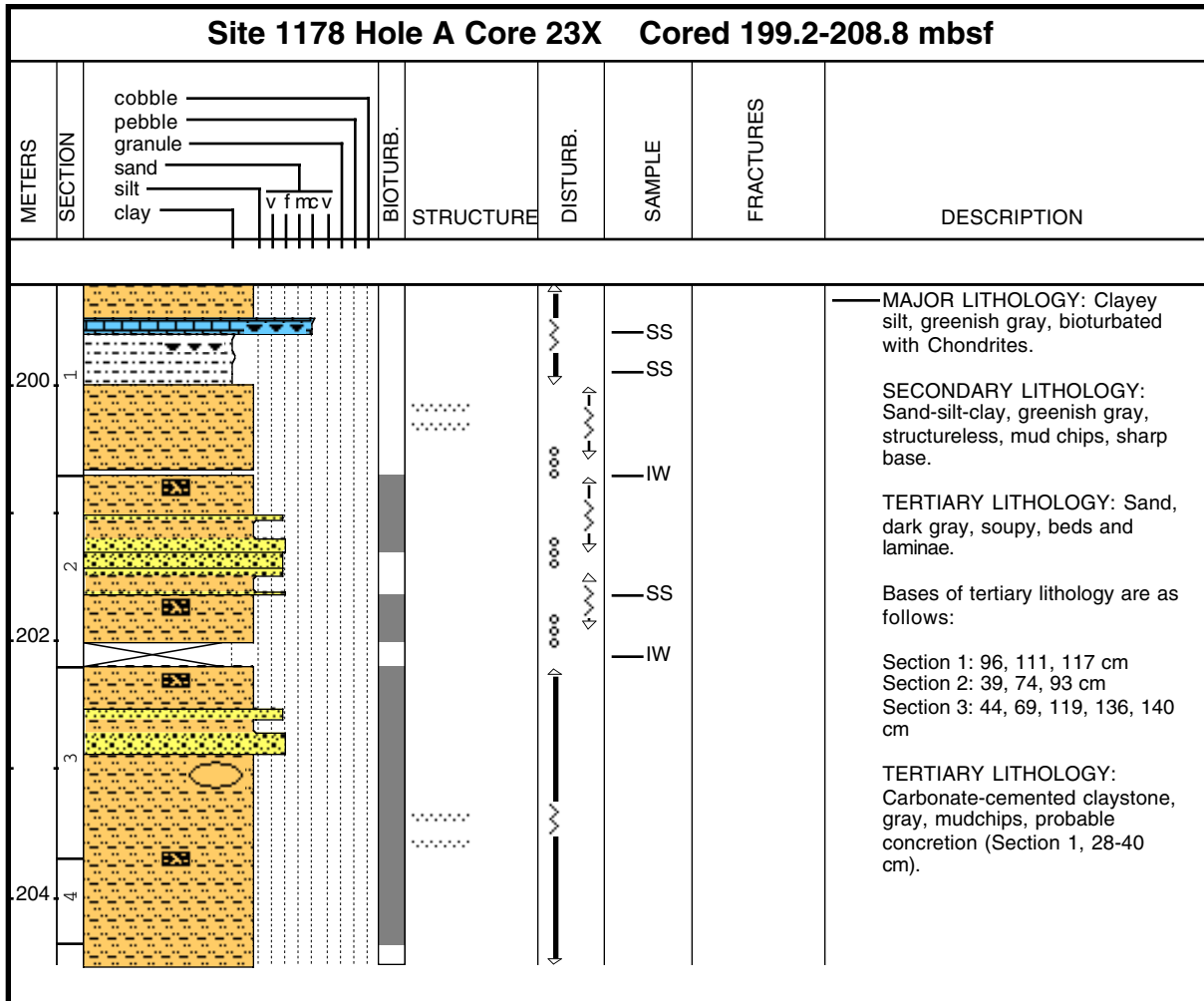
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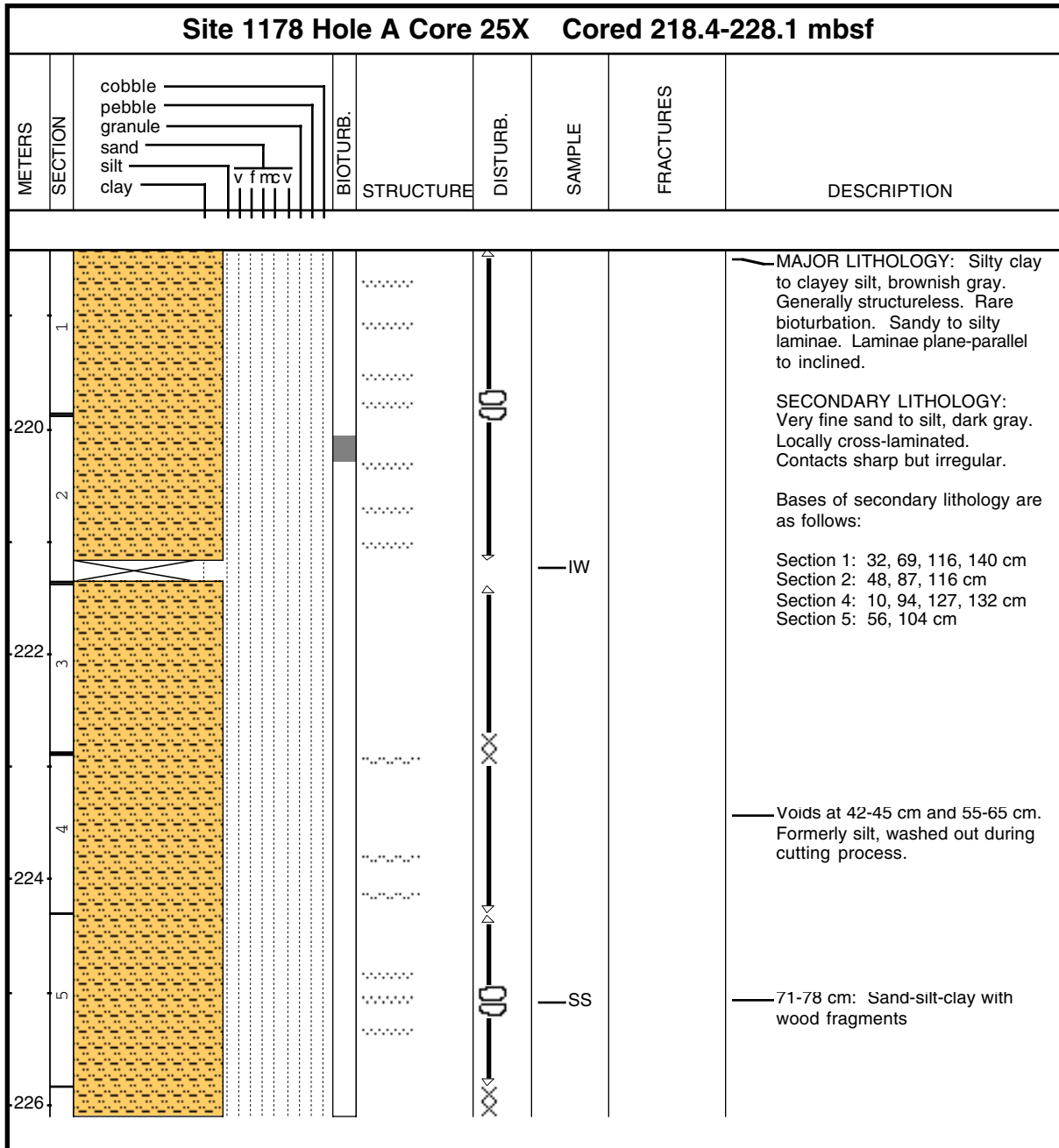
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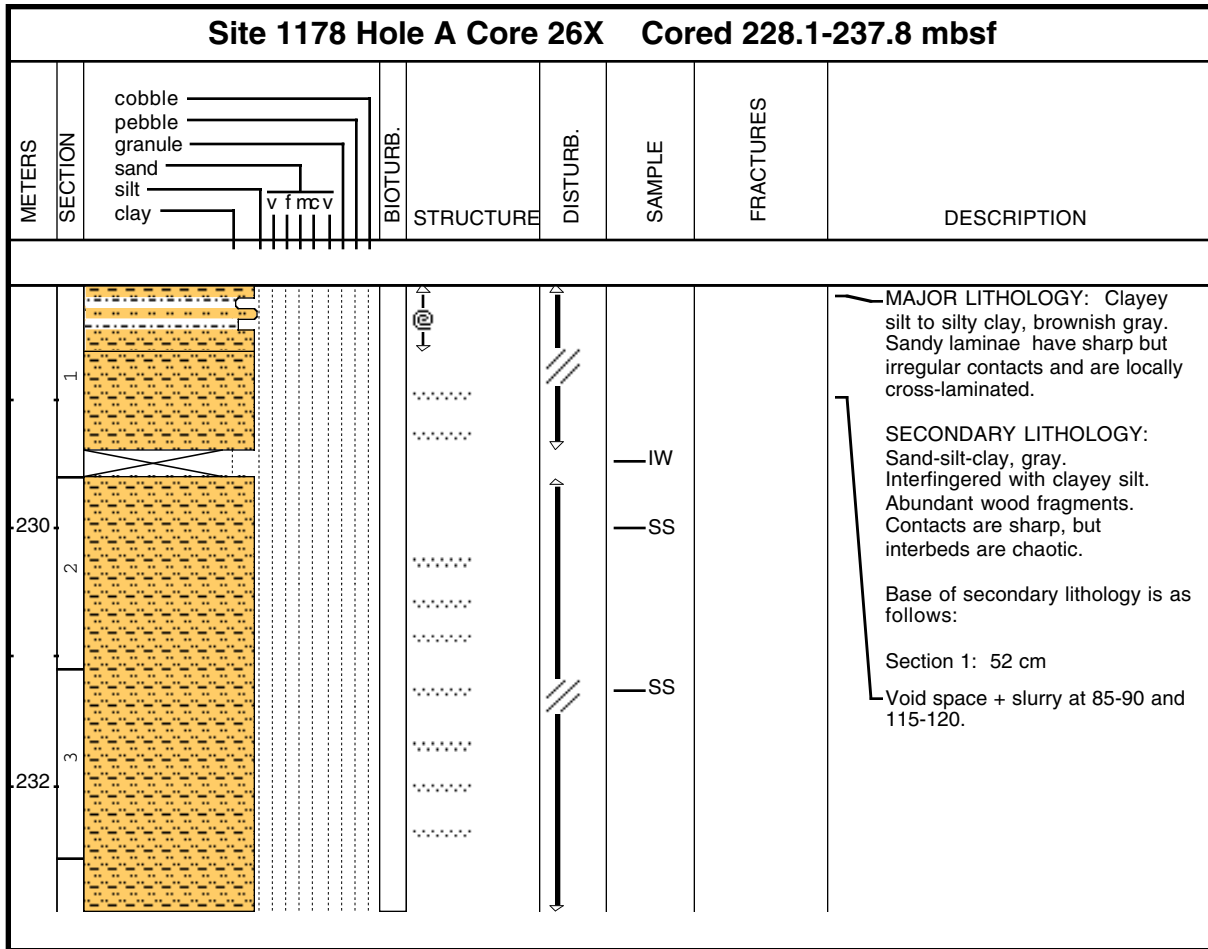
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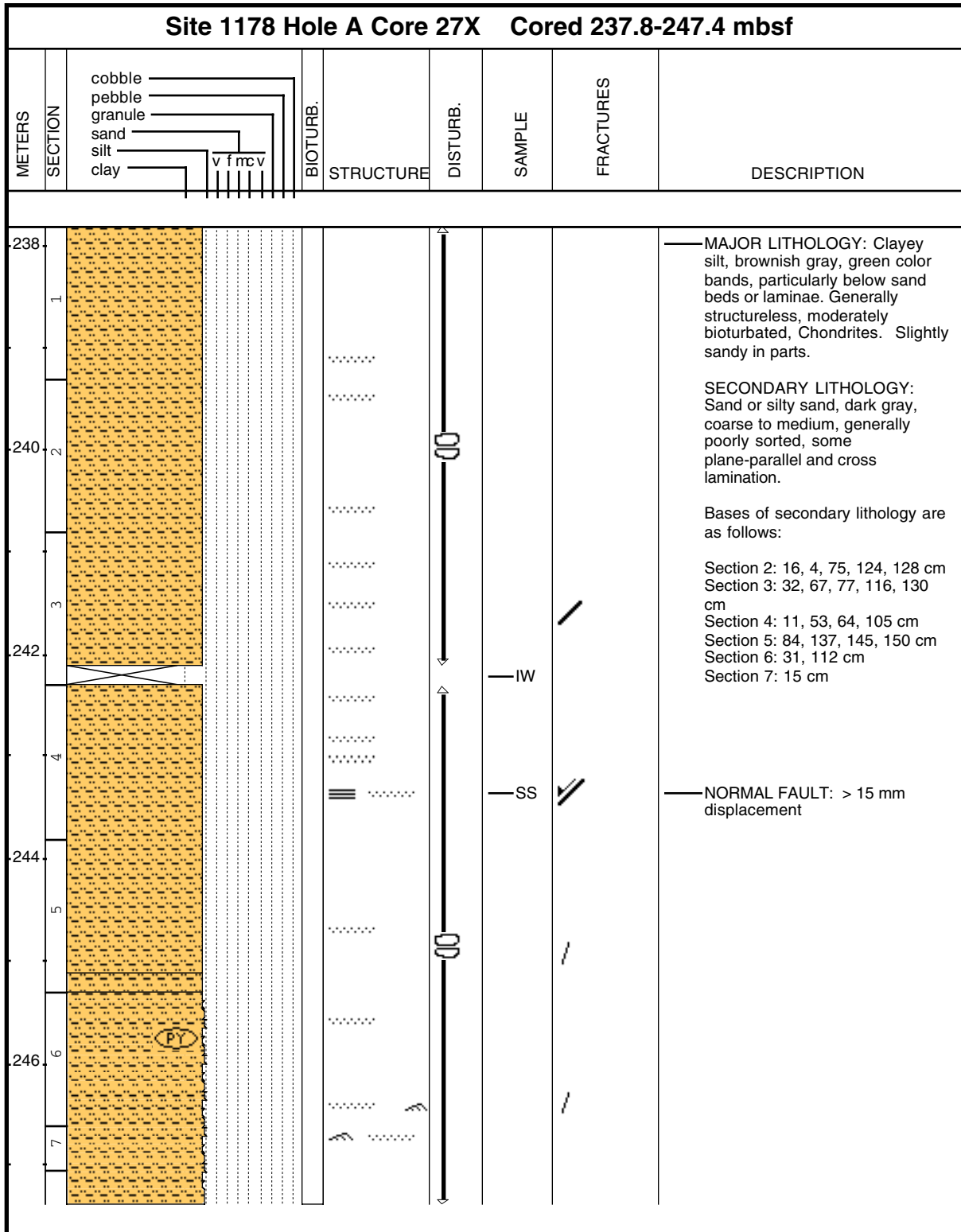
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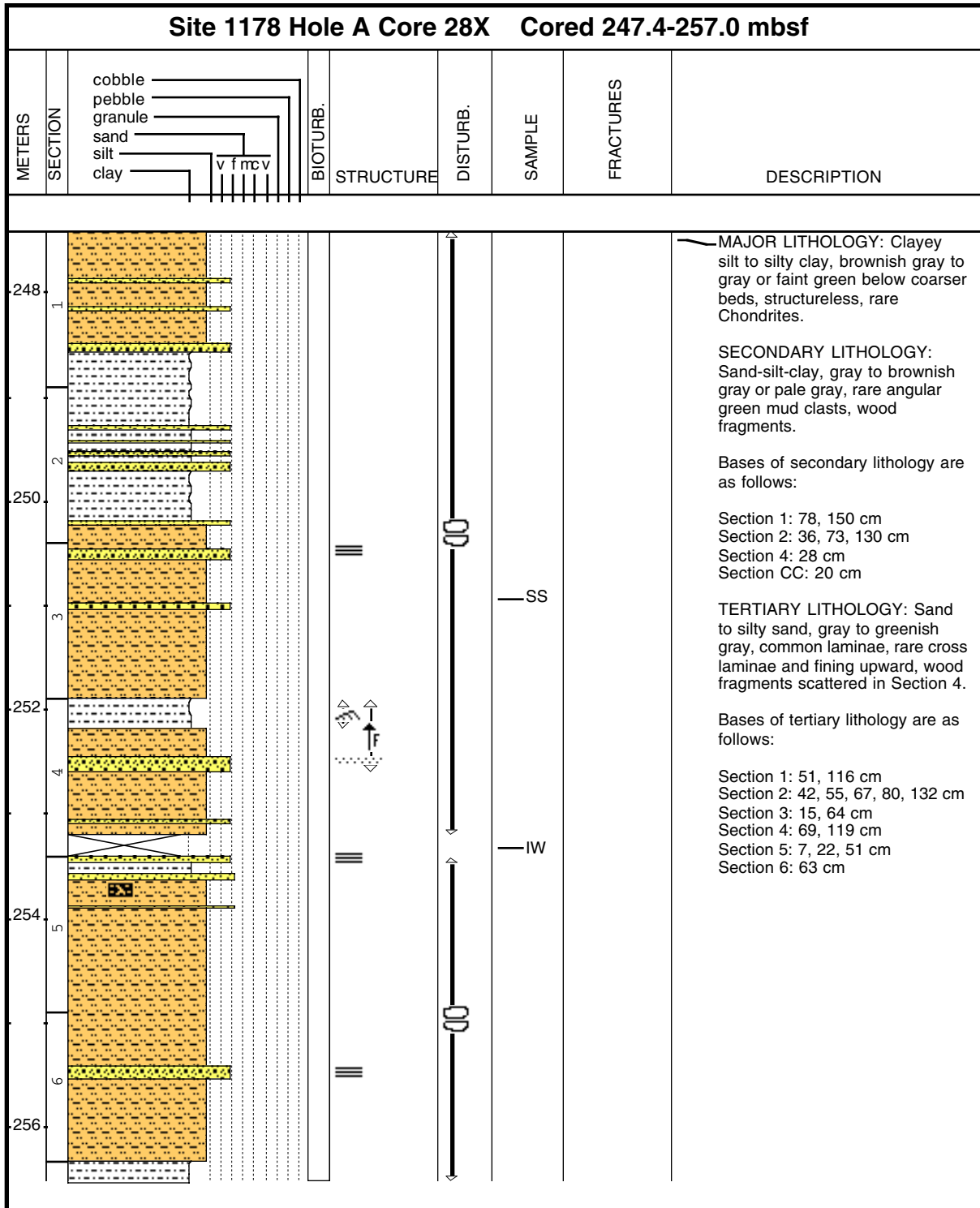
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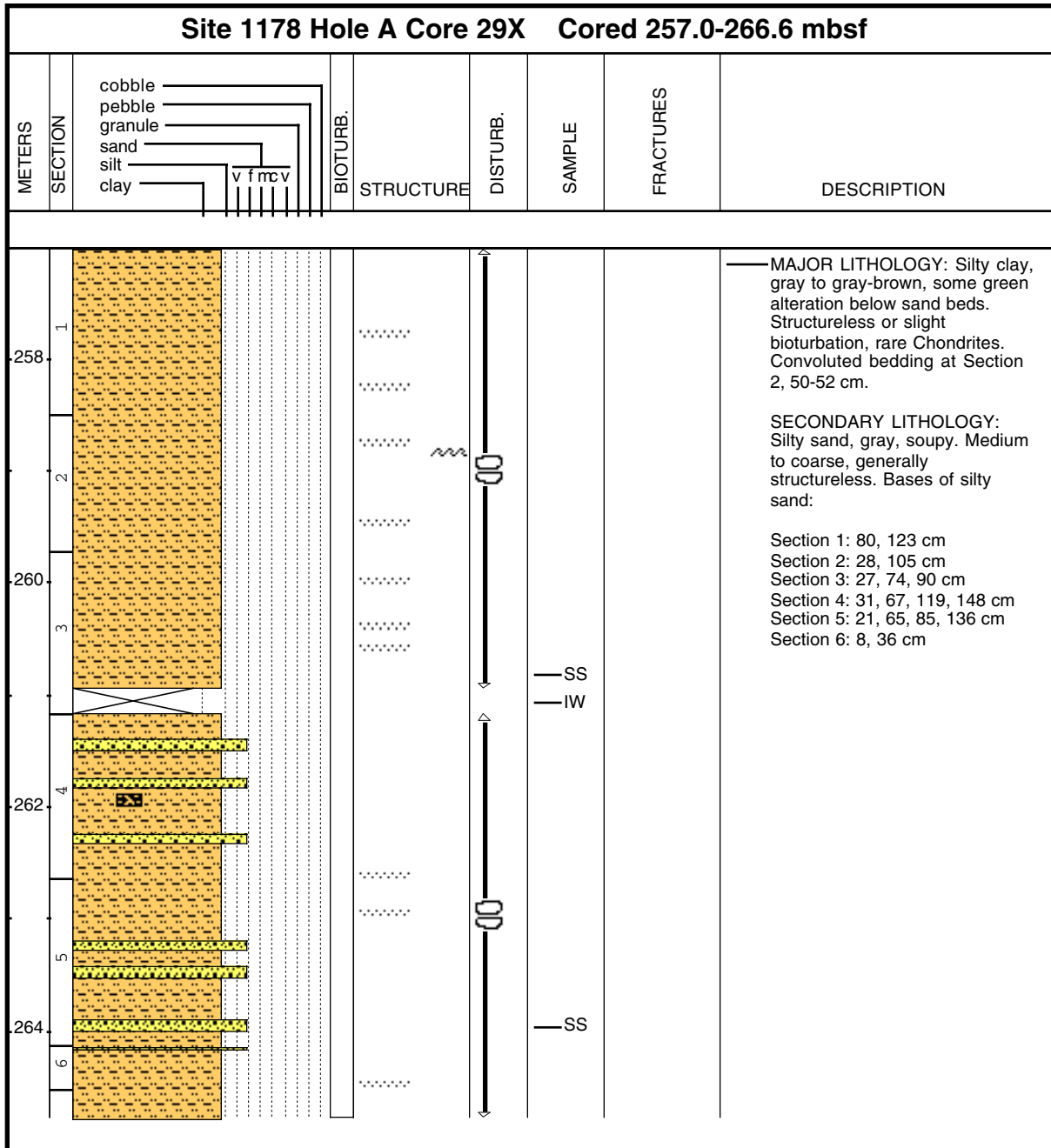
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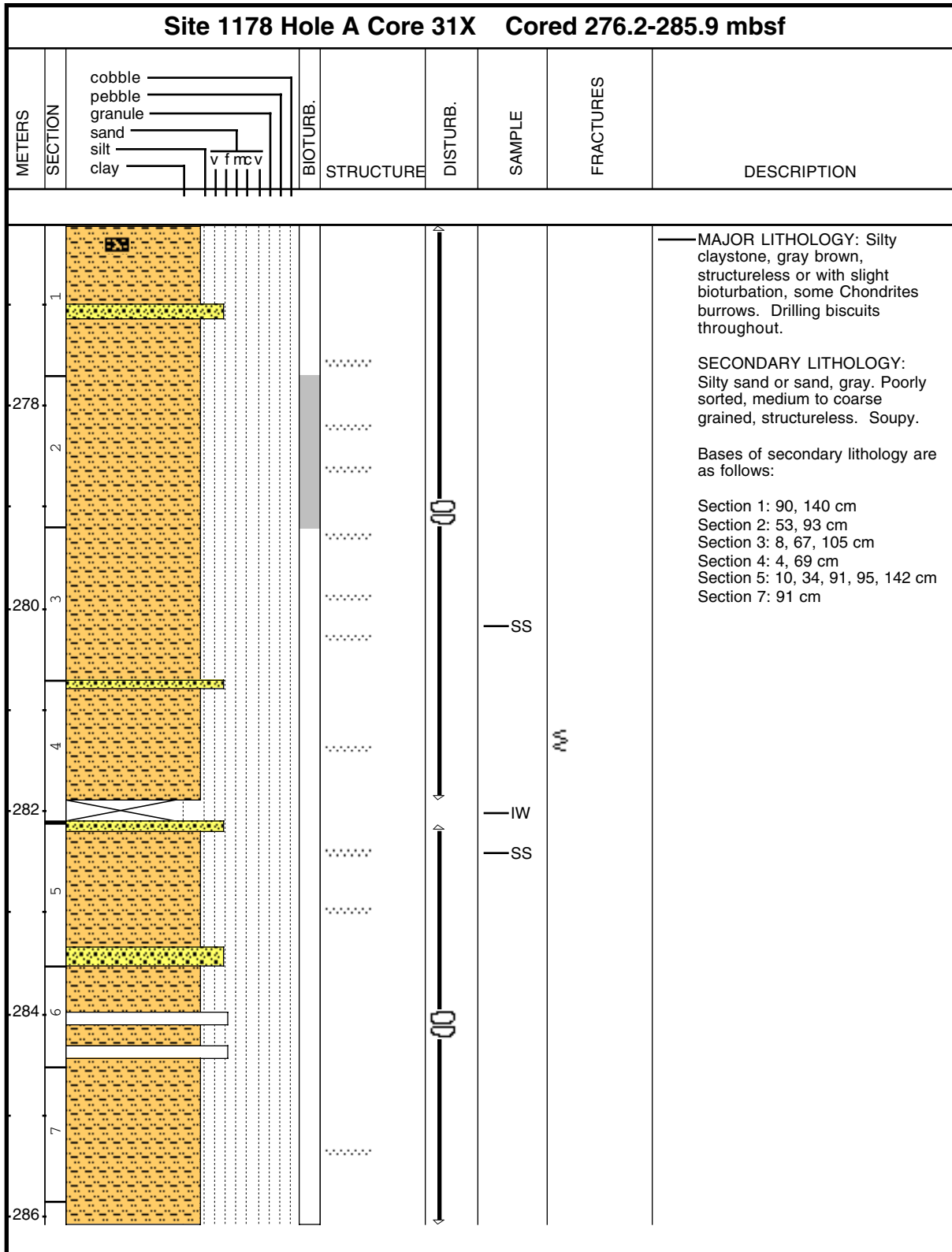
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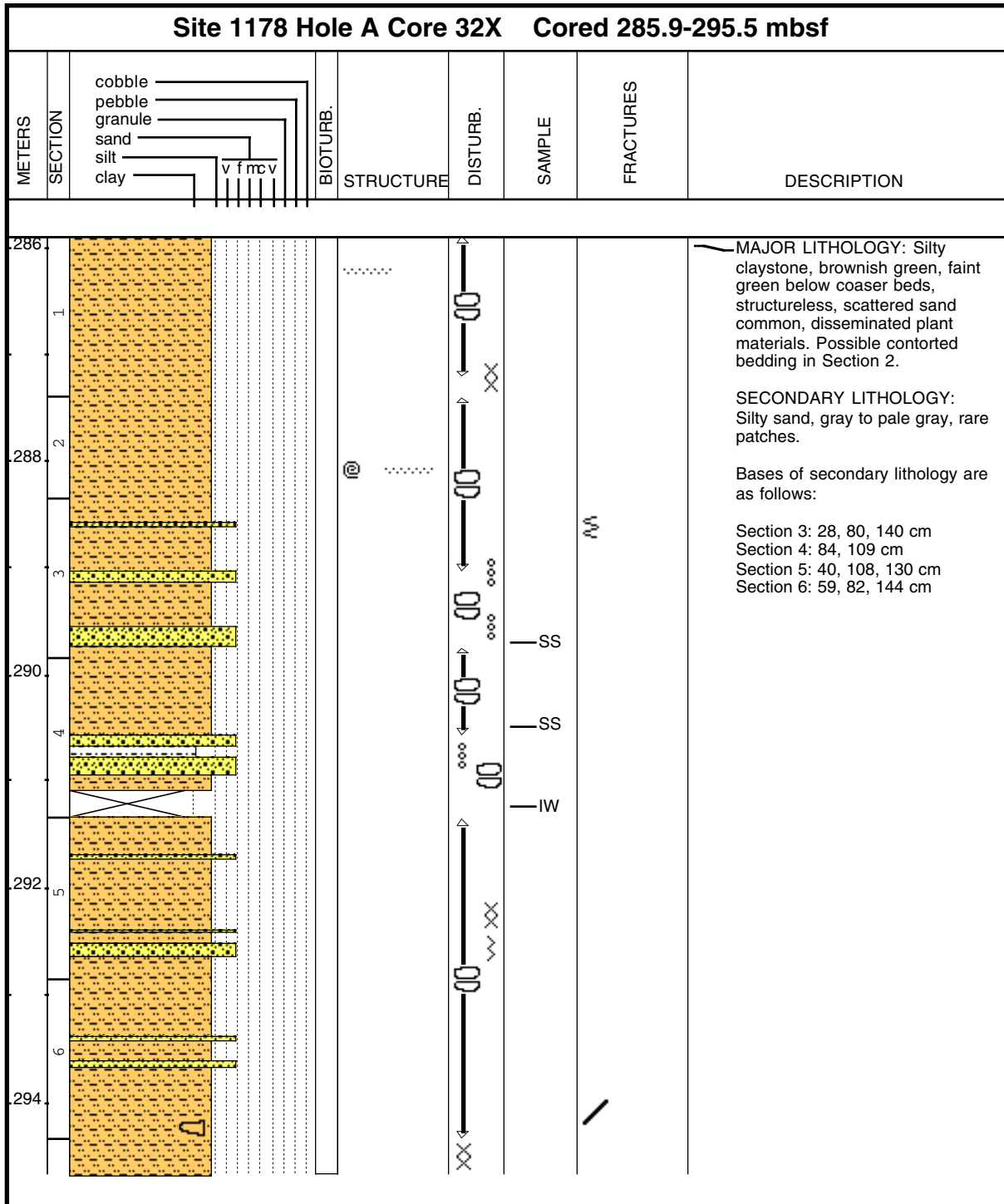
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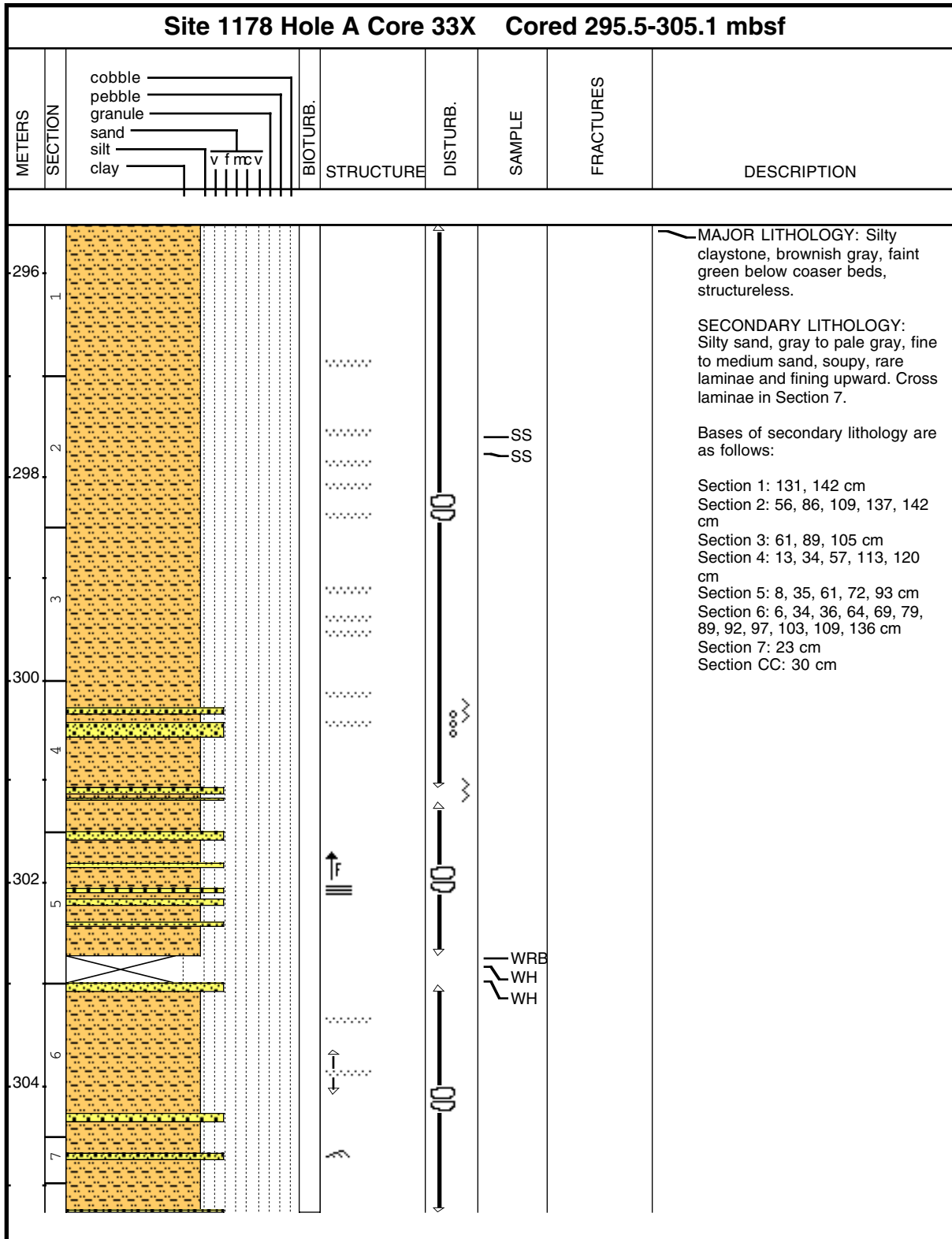
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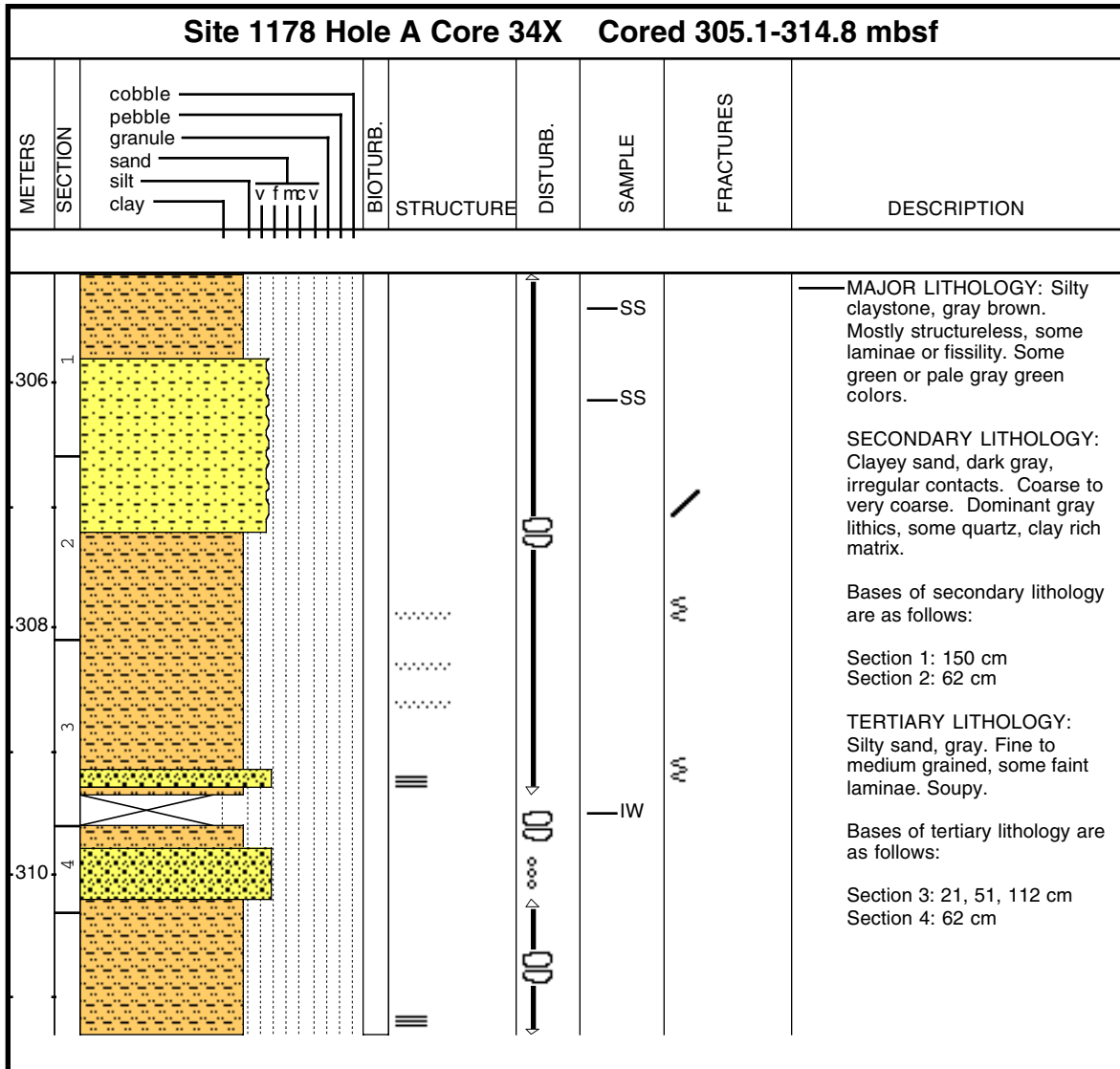
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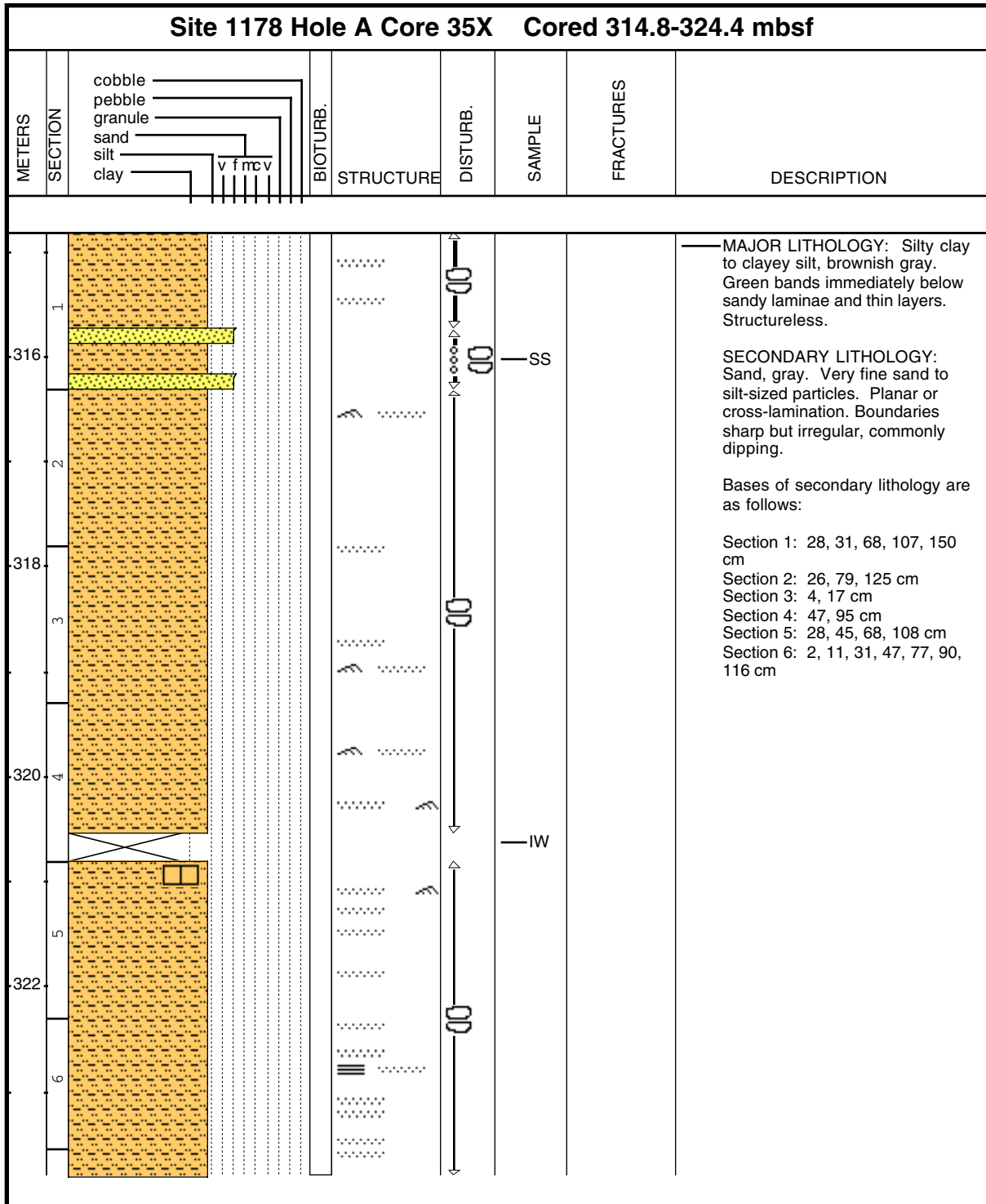
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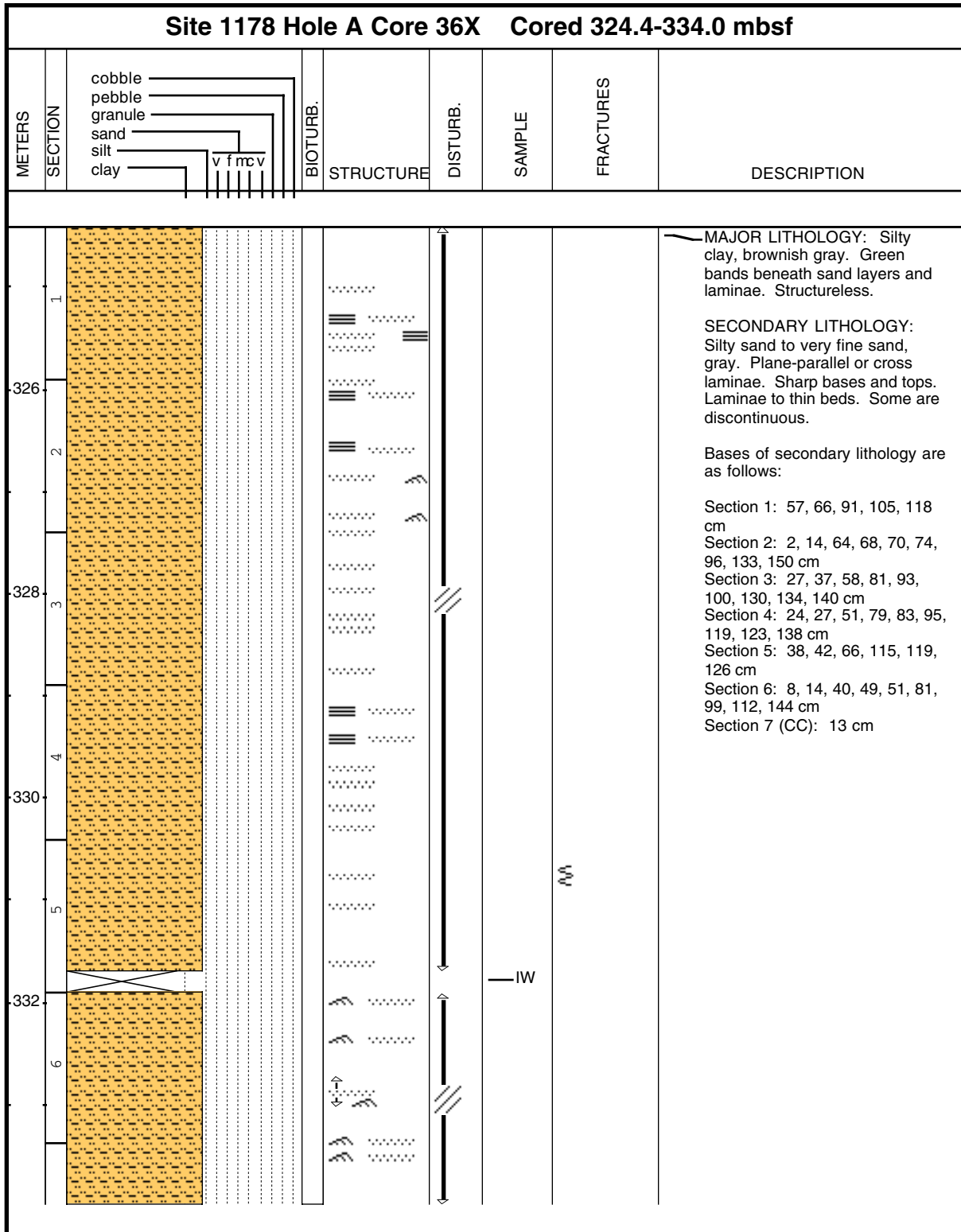
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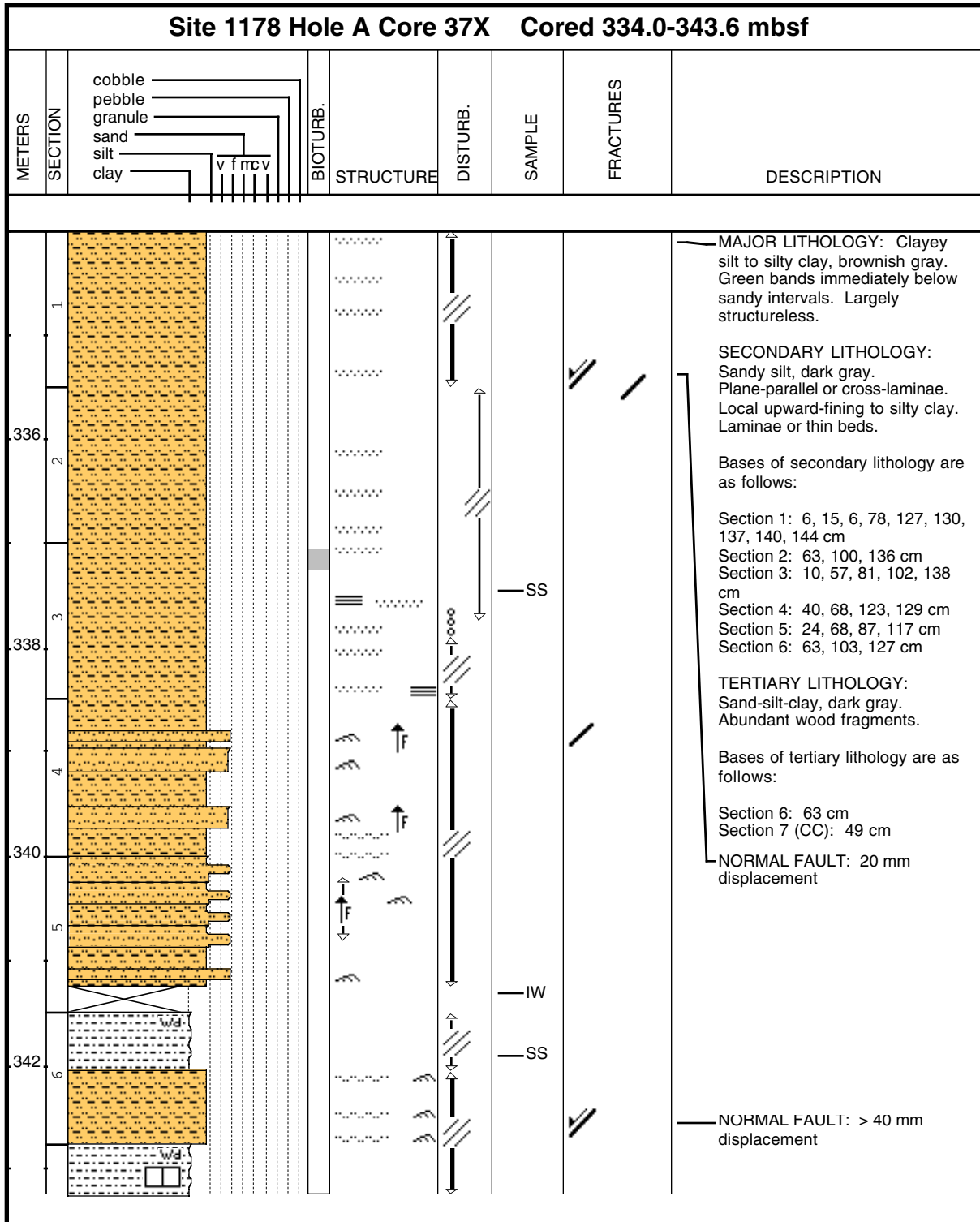
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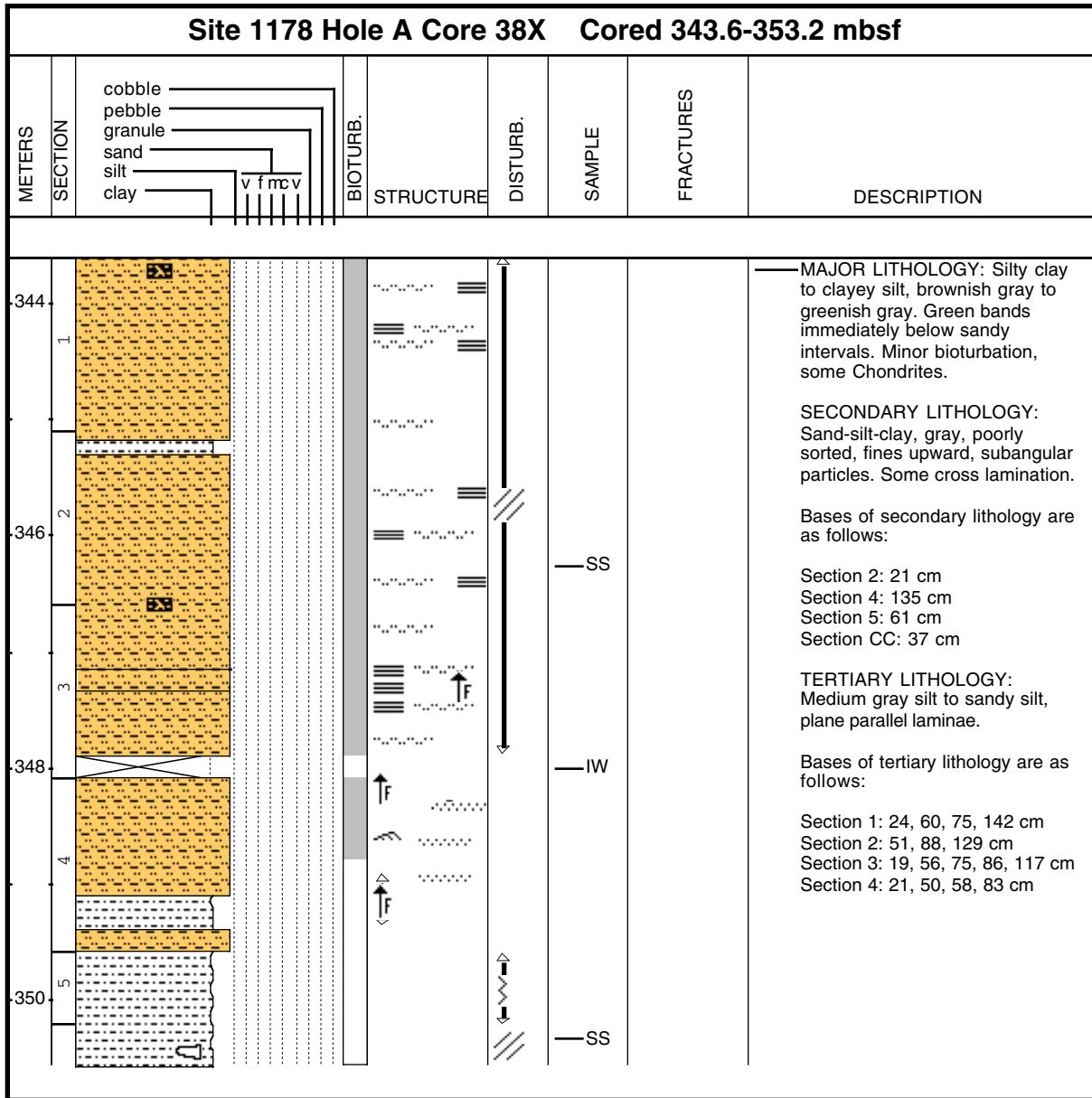
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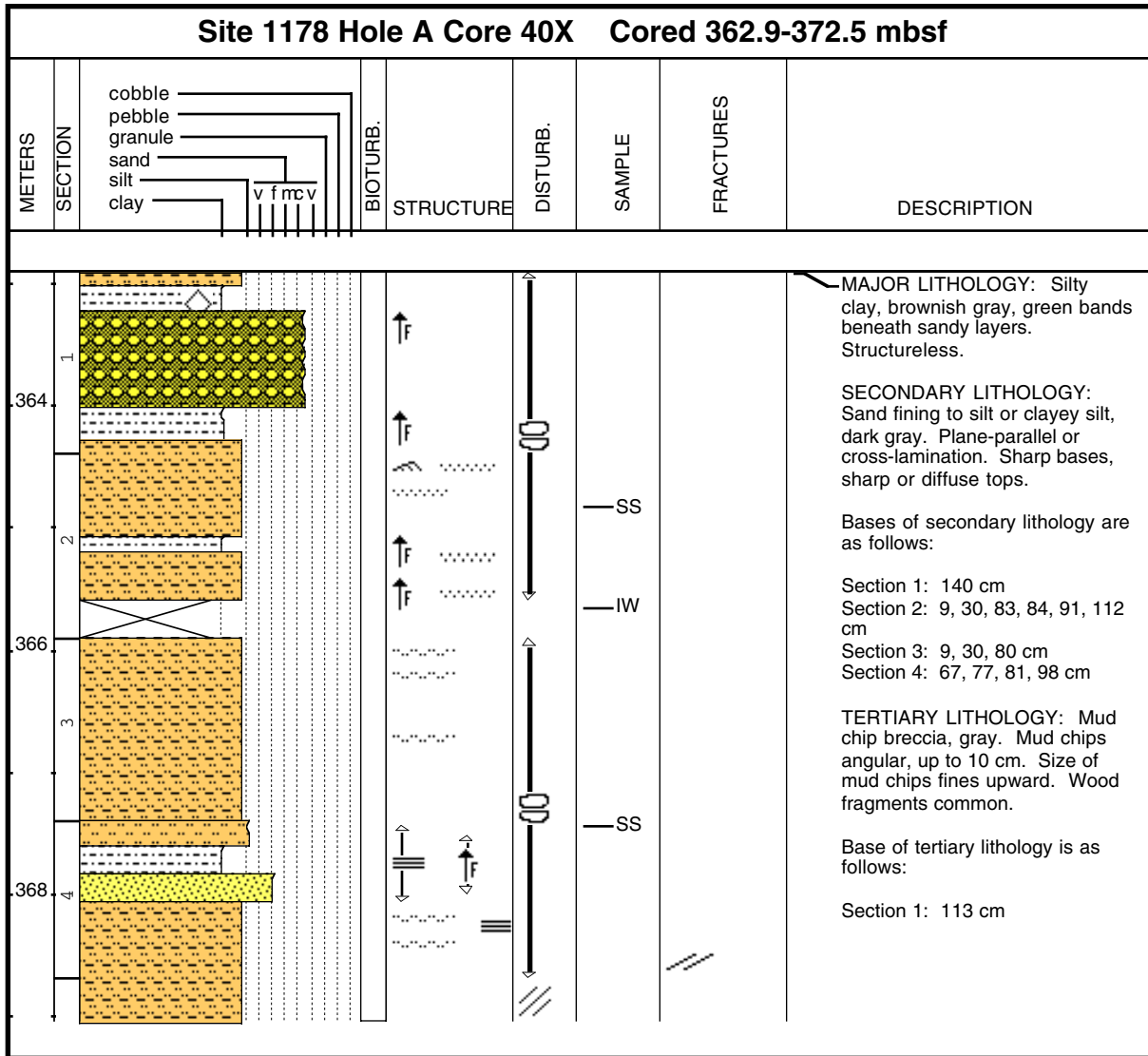
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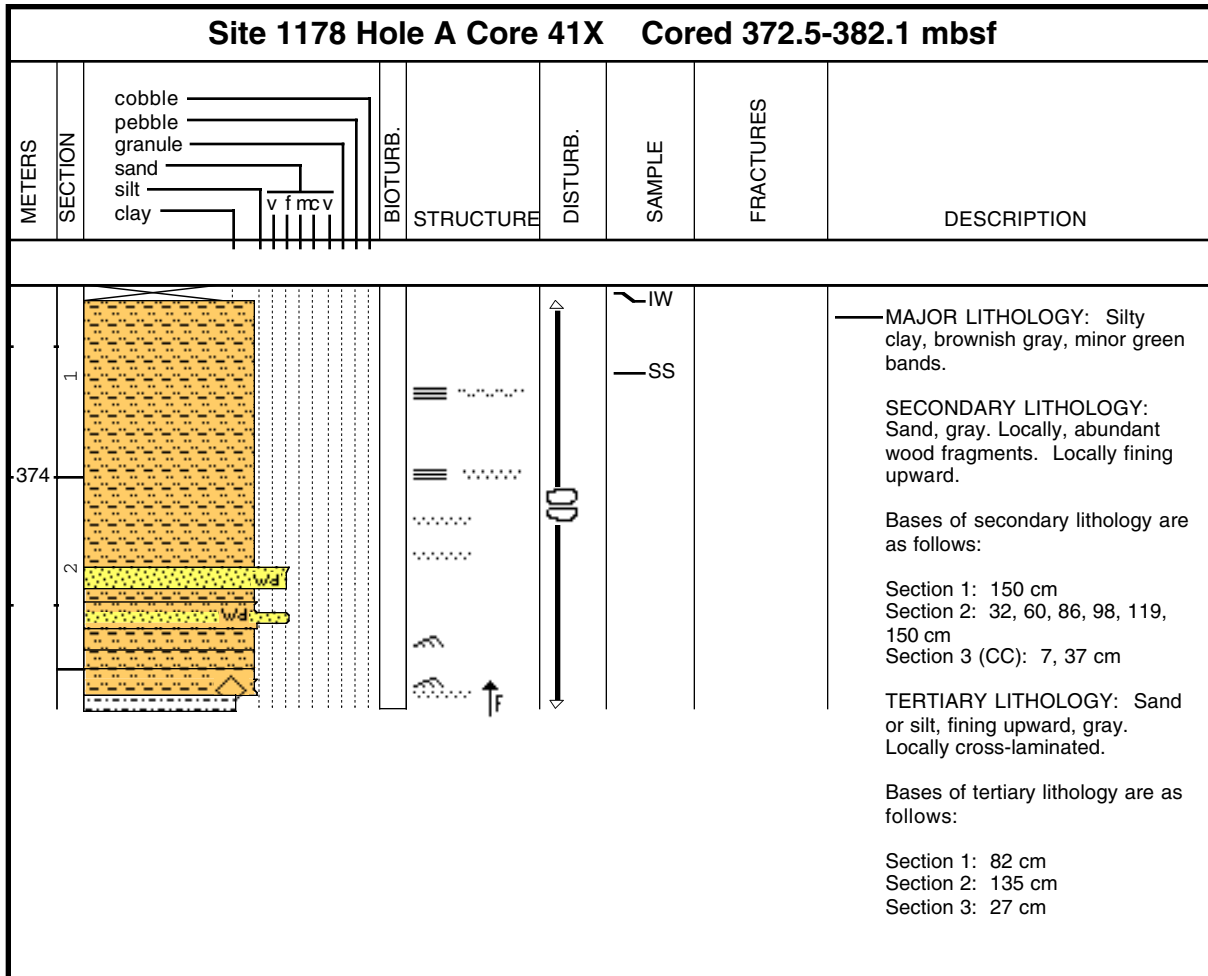
Core Photo

Site 1178 Hole A Core 39X Cored 353.2-362.9 mbsf								
METERS	SECTION		BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	FRACTURES	DESCRIPTION
		cobble pebble granule sand silt clay						
354.1	1							MAJOR LITHOLOGY: Silty clay to clayey silt, gray to greenish gray, color bands. Scattered wood fragments. Local sand laminae.
	2							SECONDARY LITHOLOGY: Sand-silt-clay, dark gray. Particles up to ~1mm, very poorly sorted. Upward fining.
								Bases of secondary lithology are as follows: Section 1: 150 cm Section 2: 7 cm Section 3 (CC): 8 cm

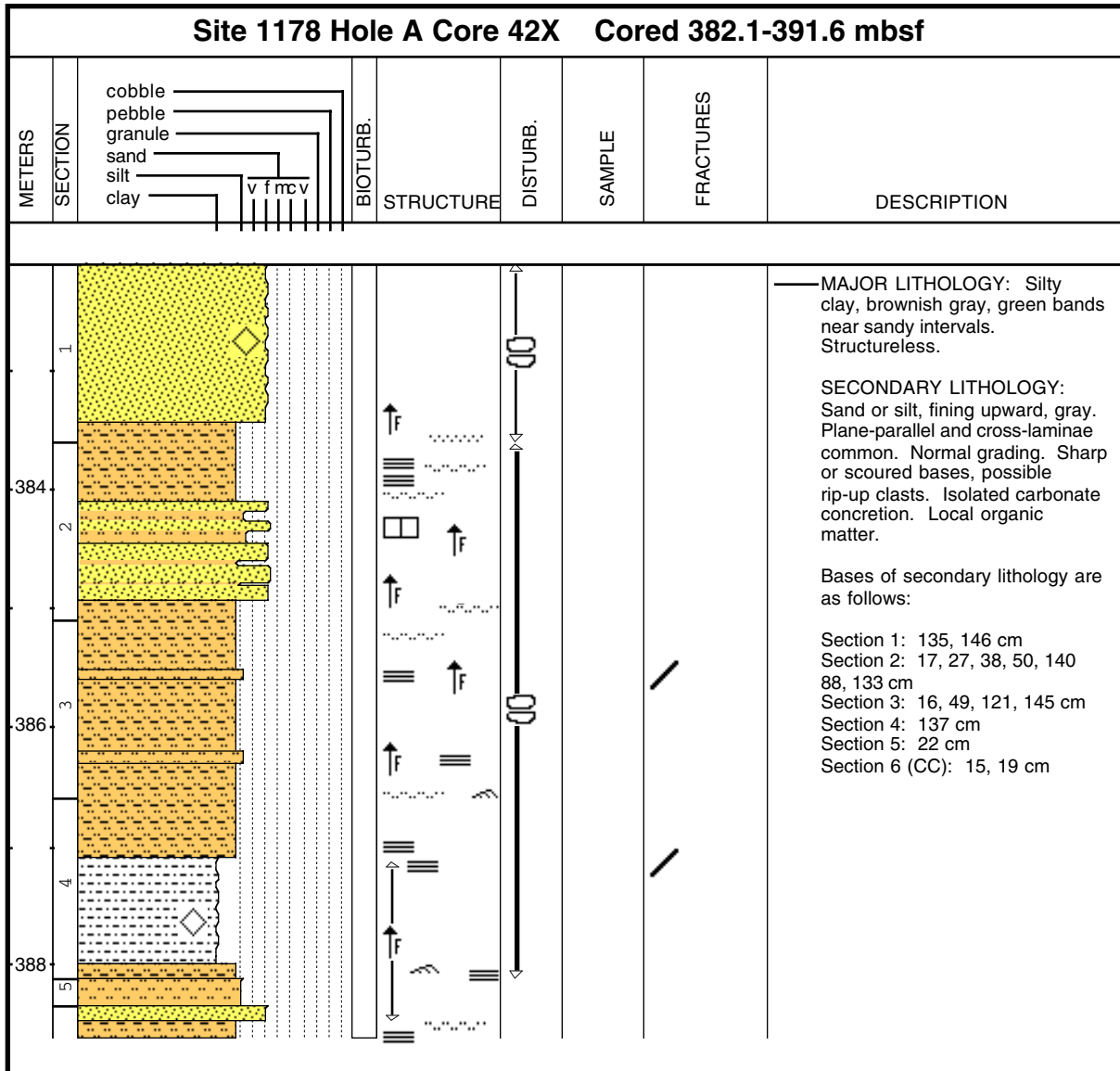
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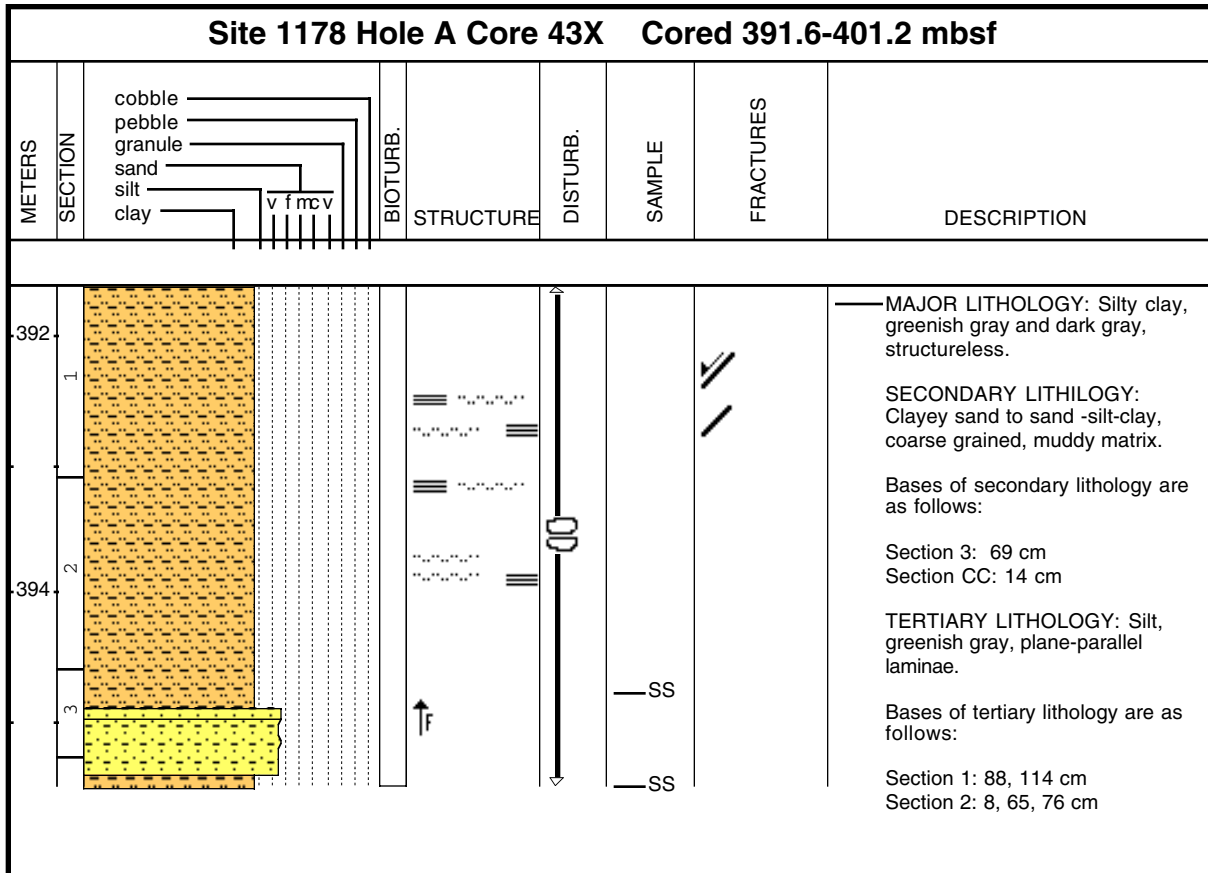
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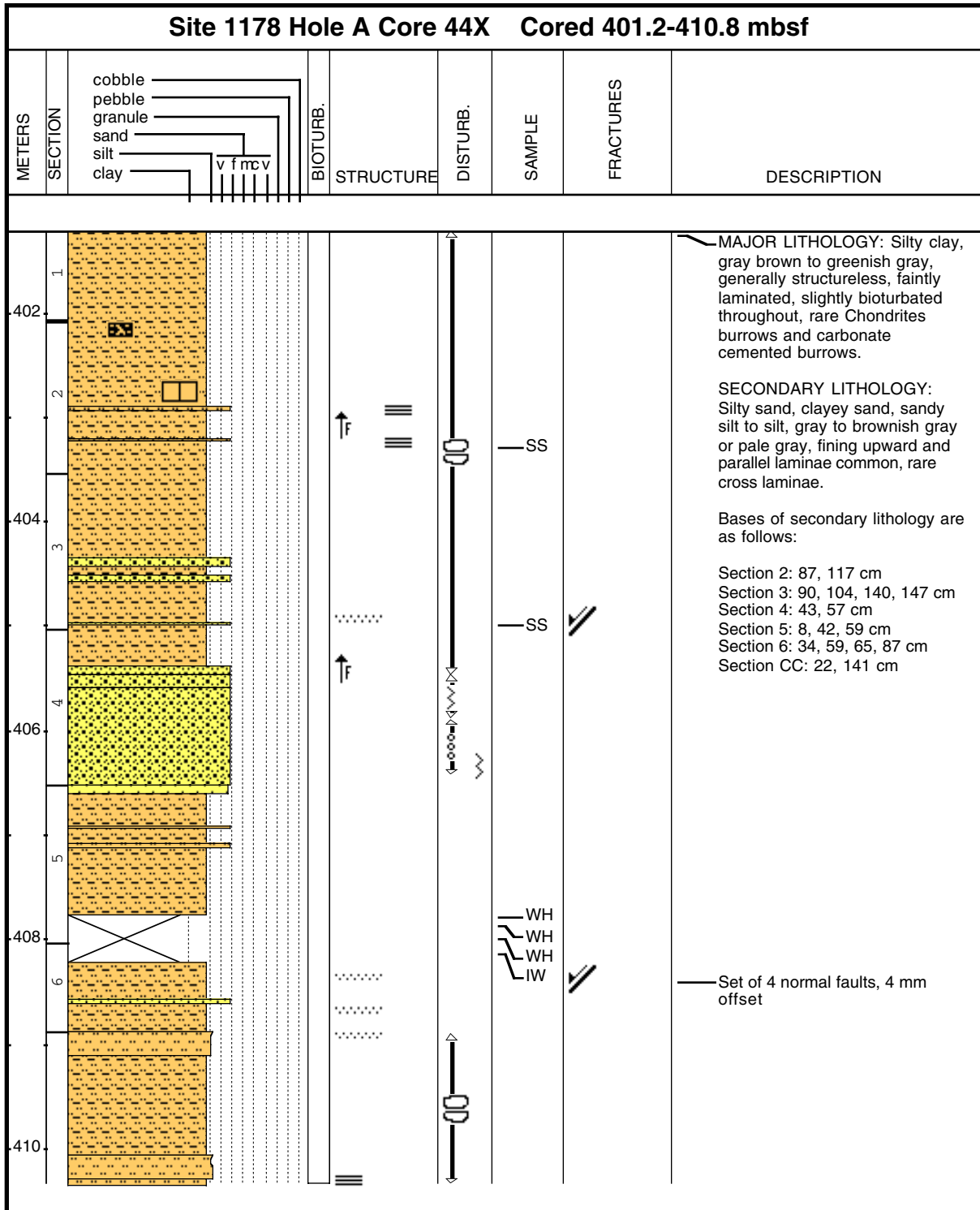
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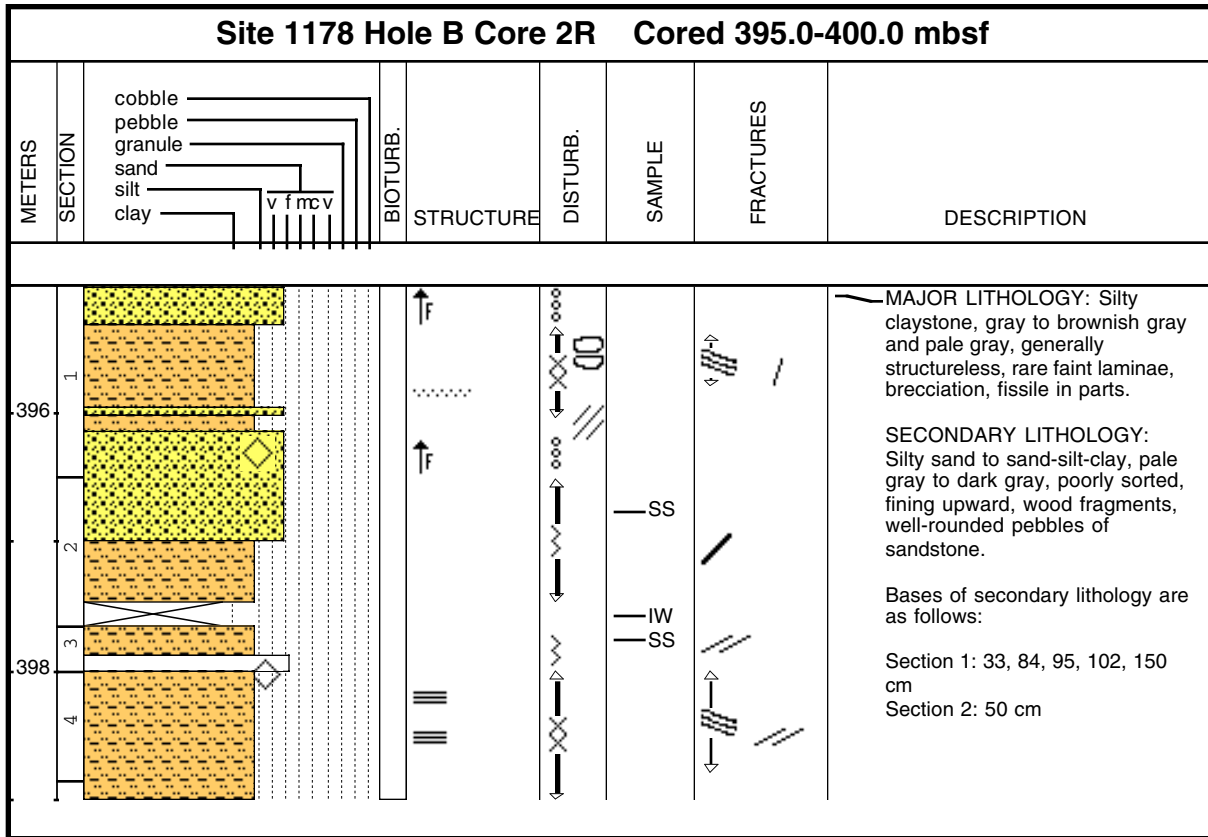


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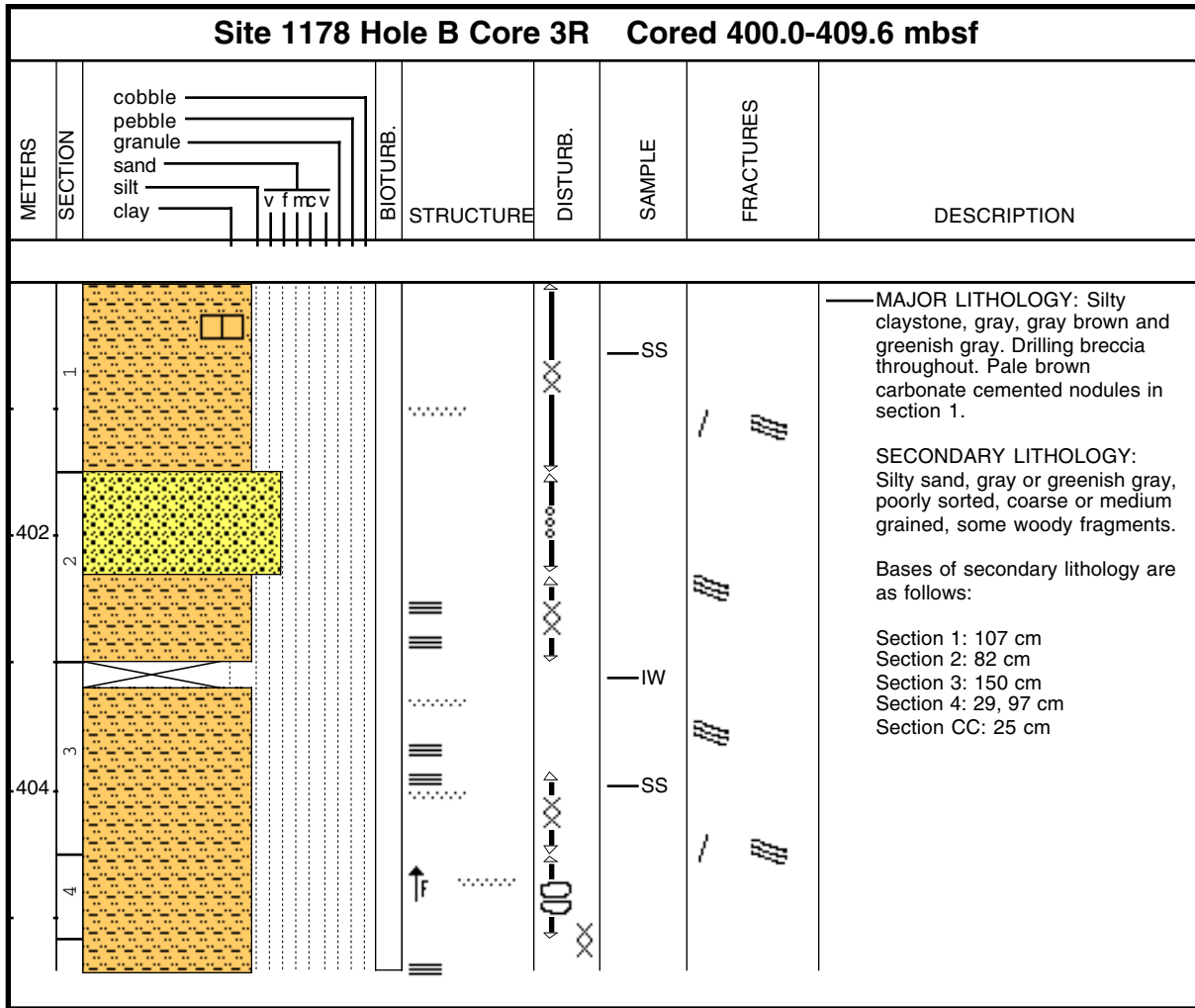


1178B-1W WASH CORE

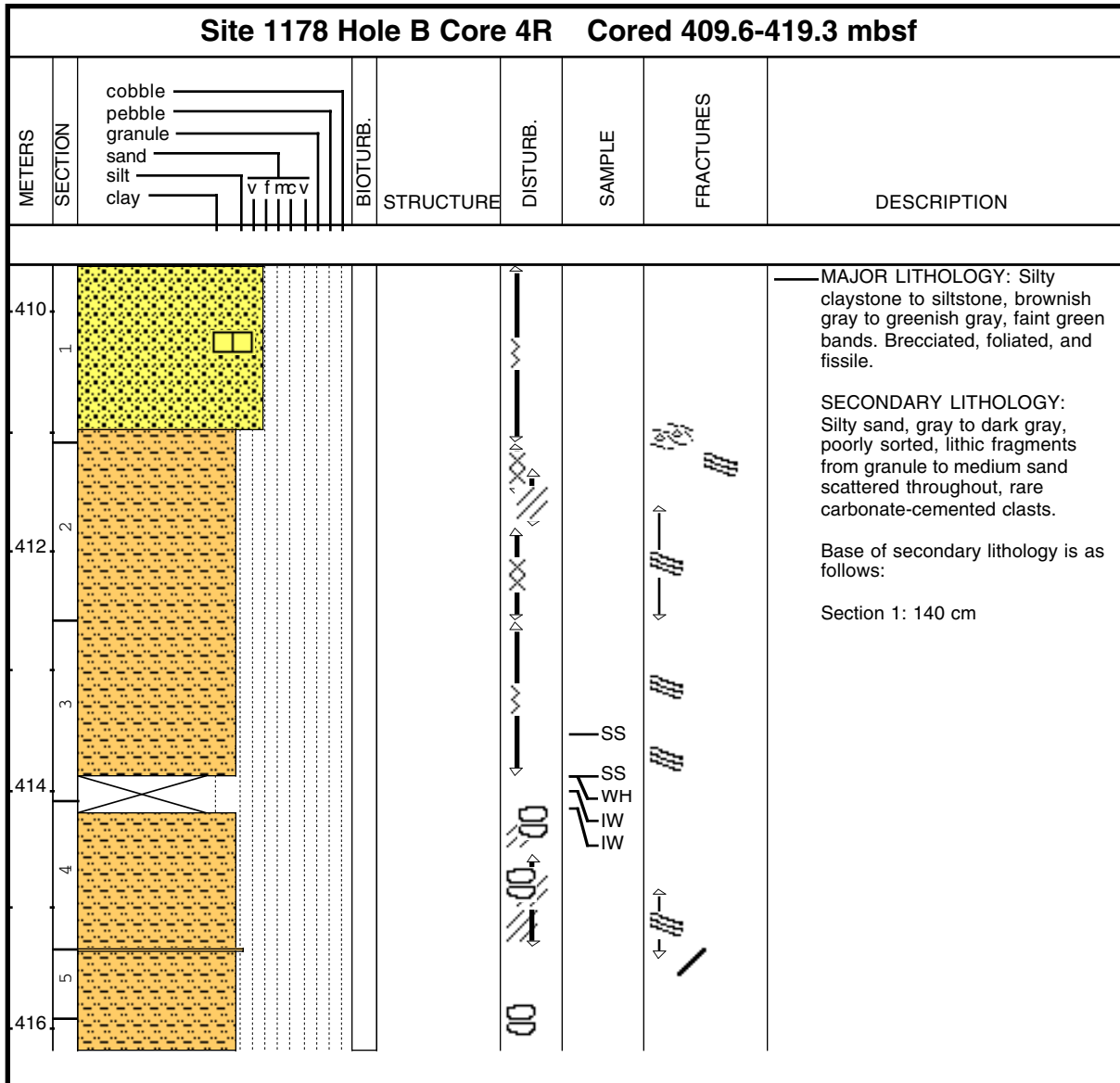
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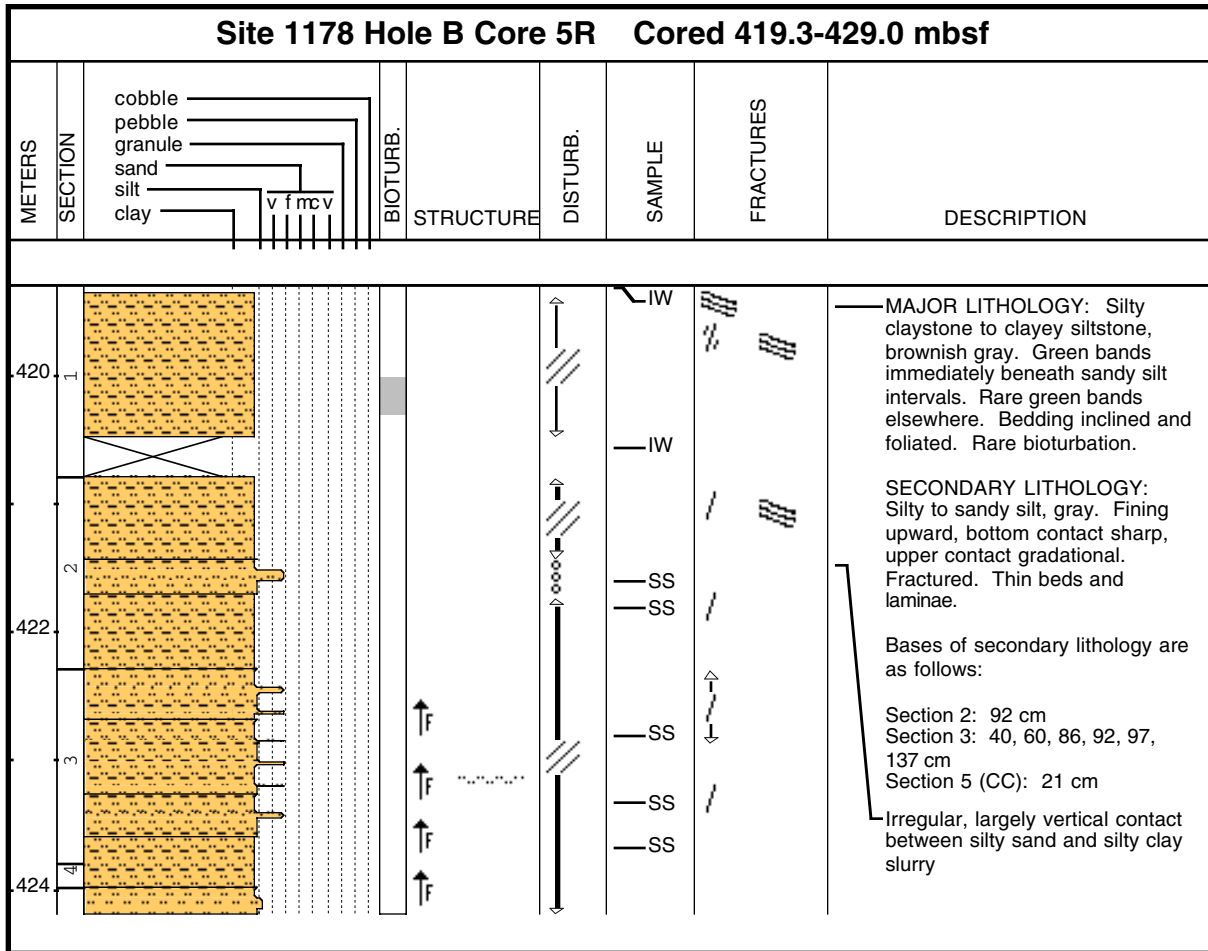
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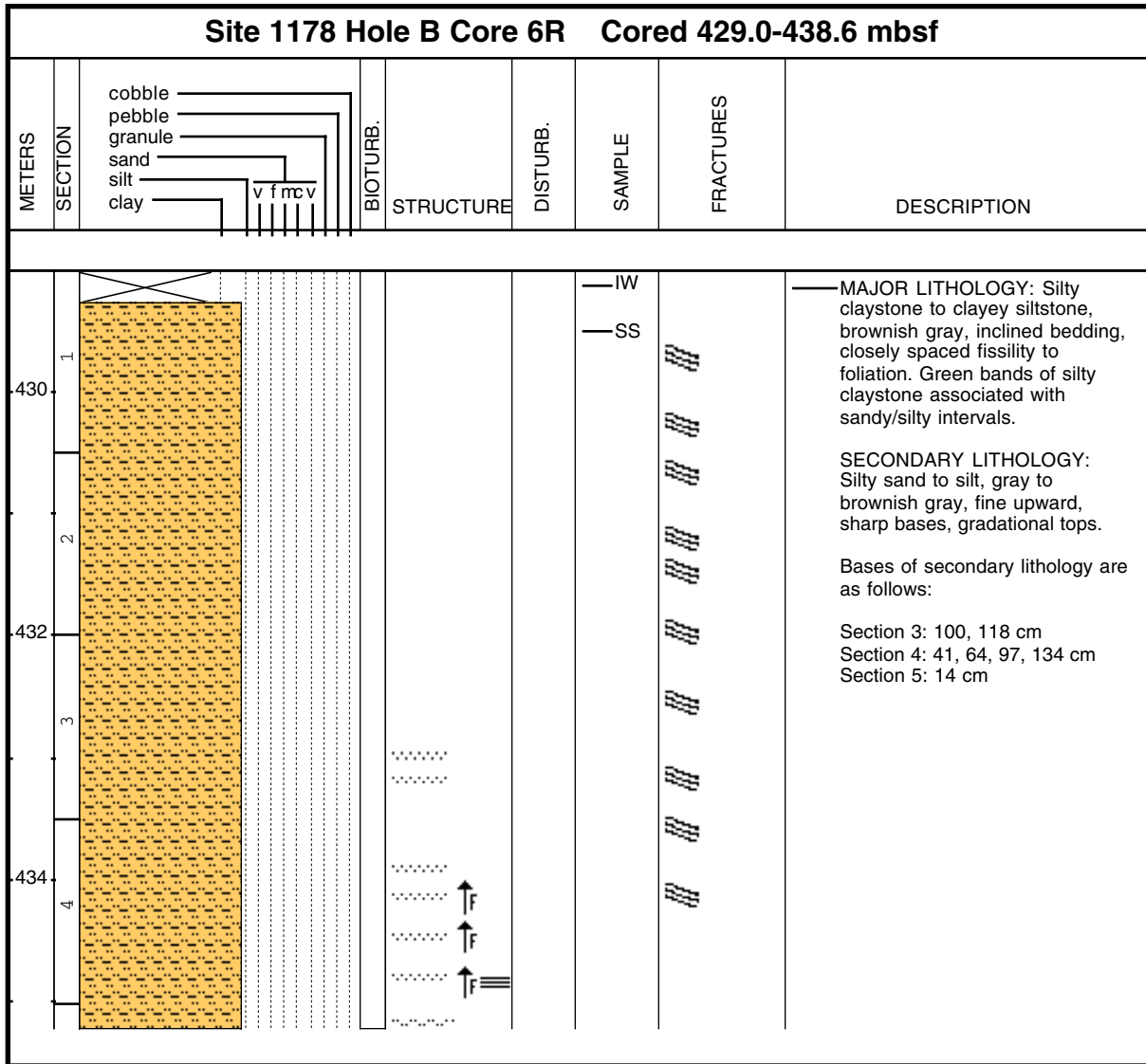
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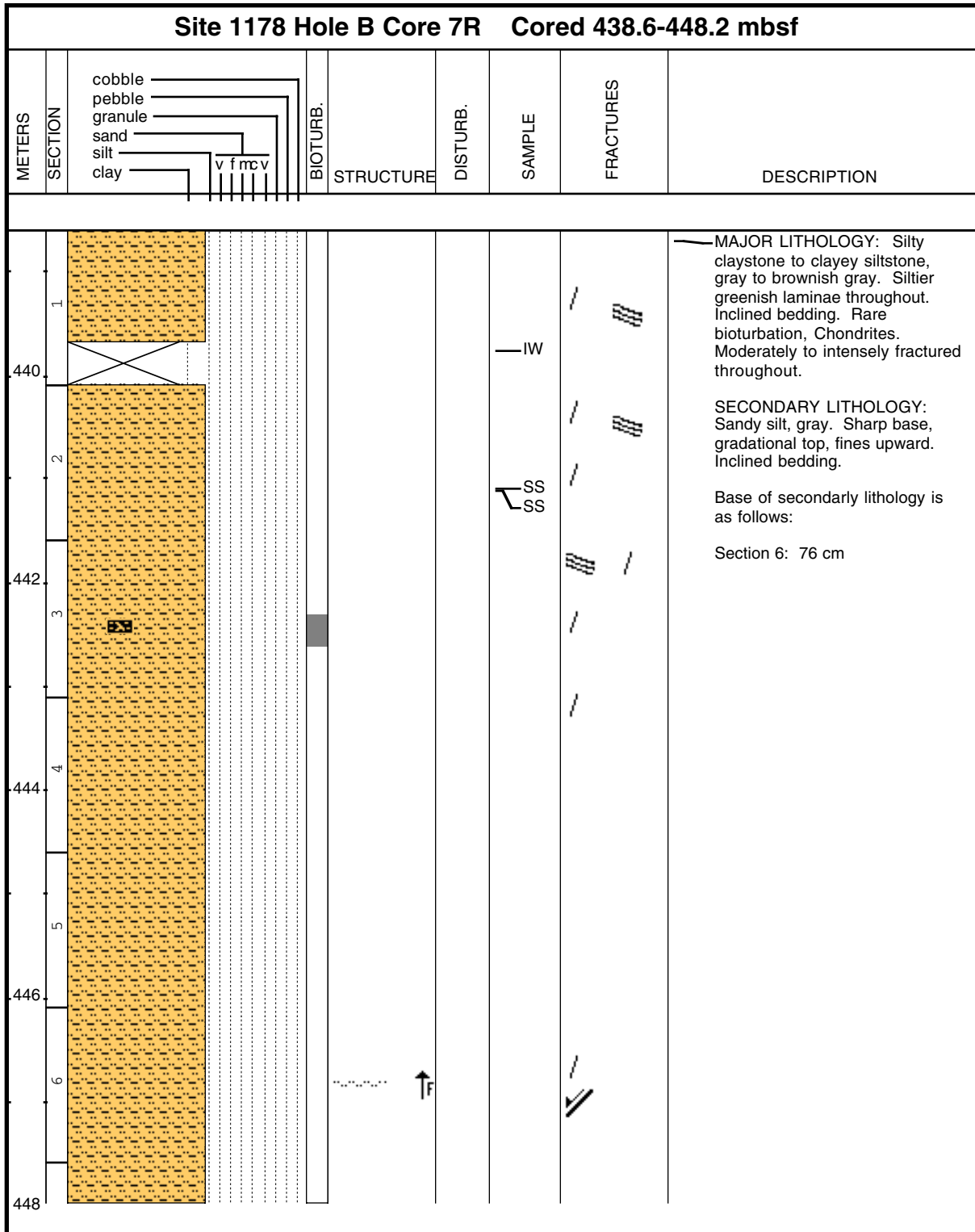
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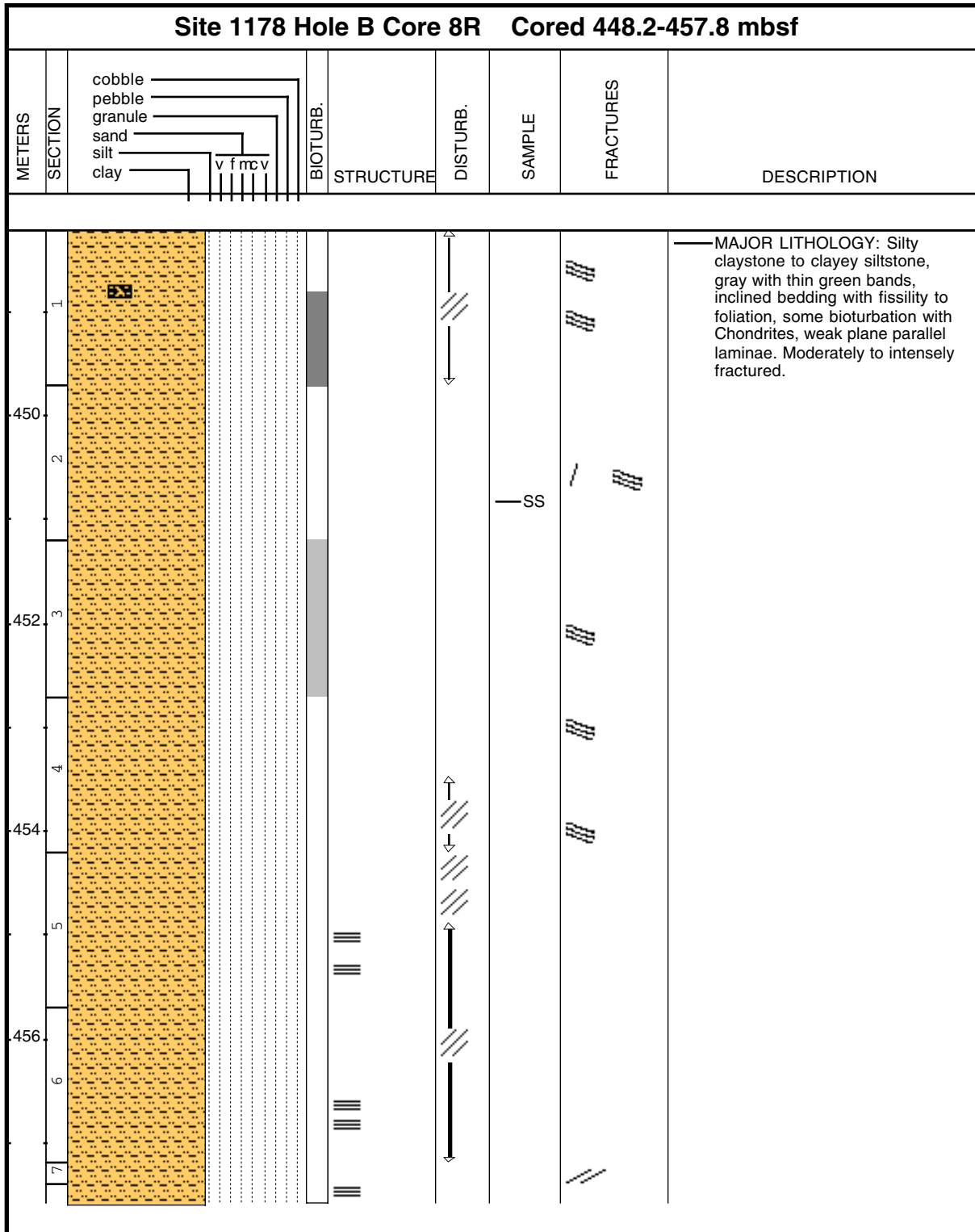
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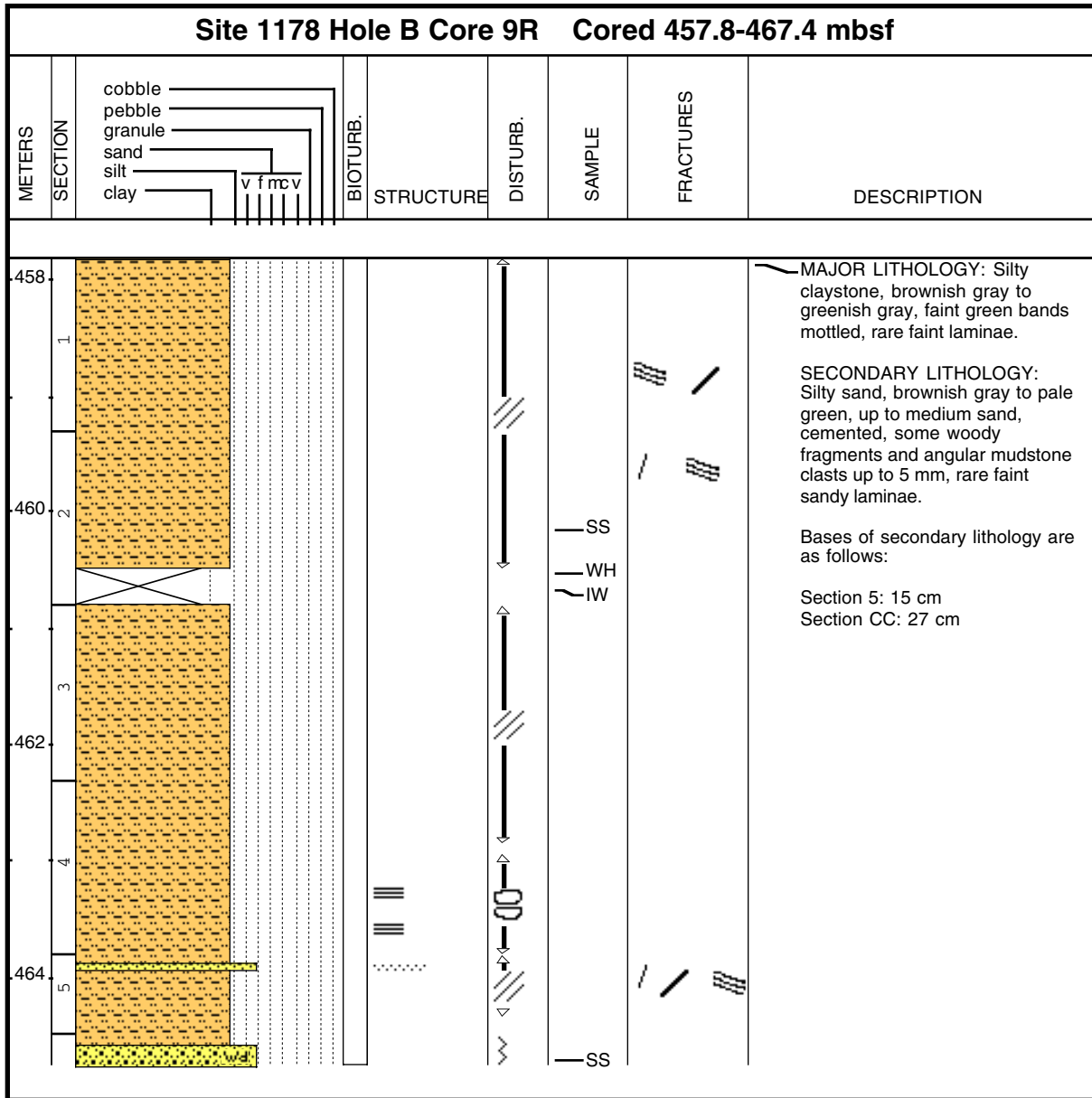
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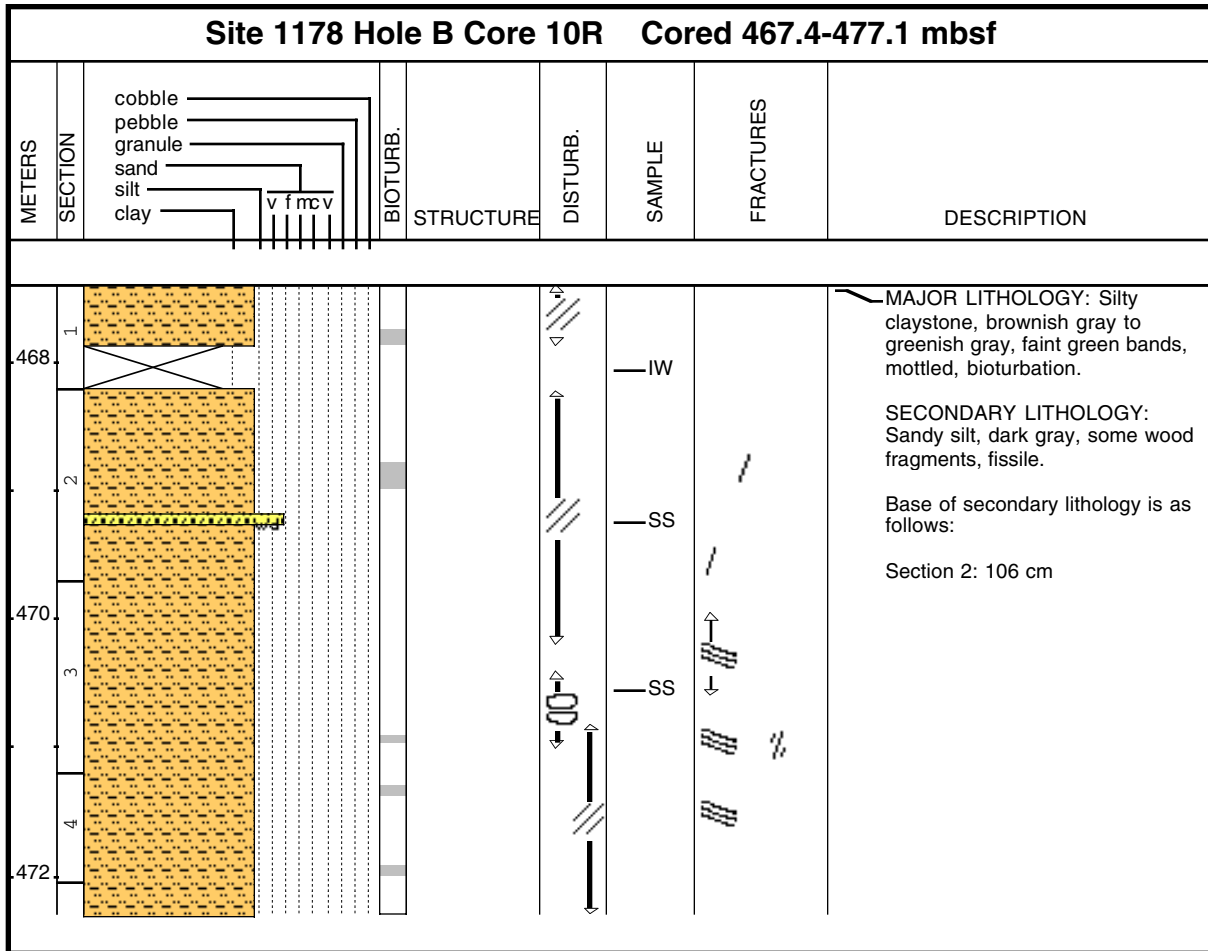
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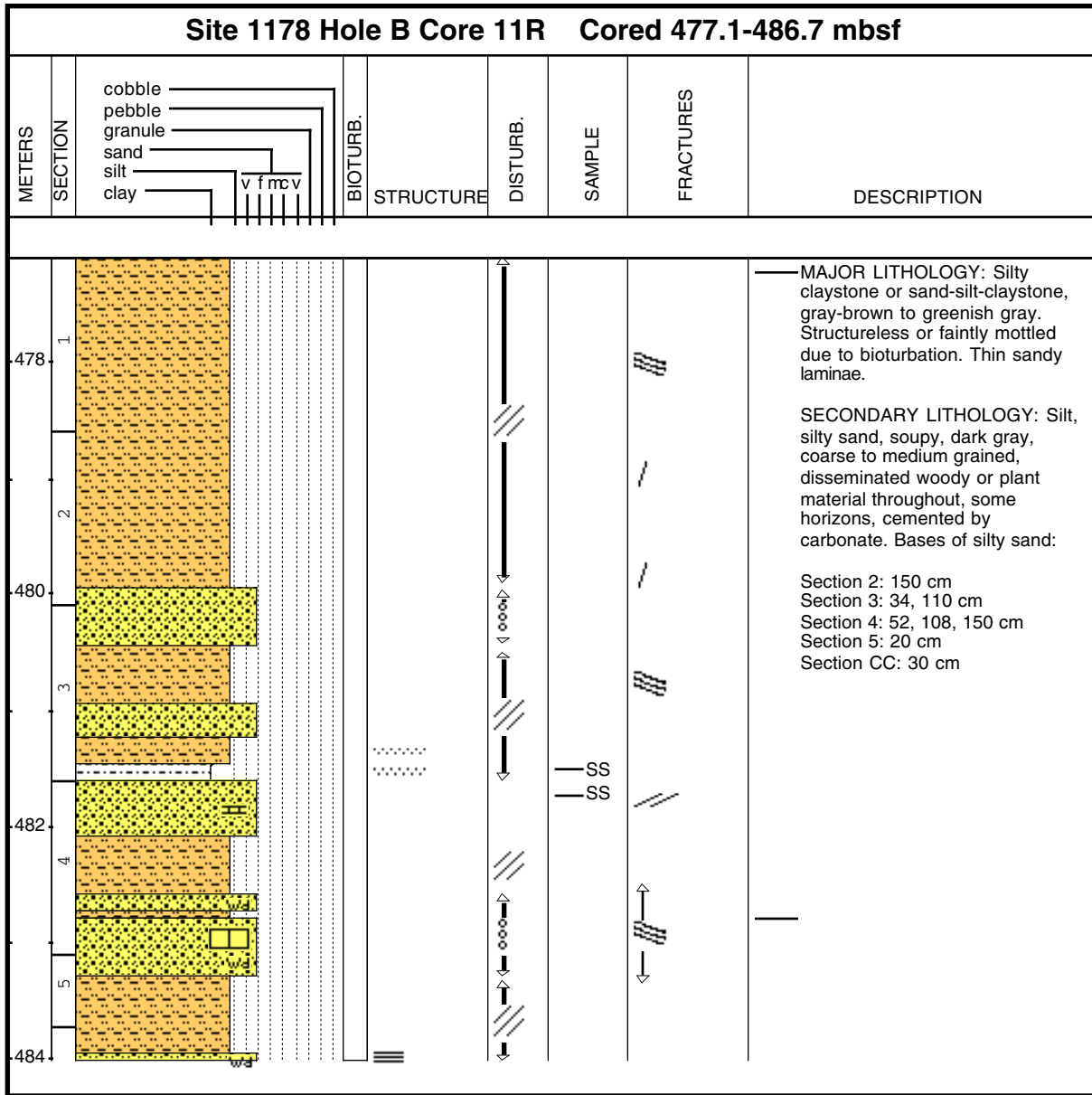
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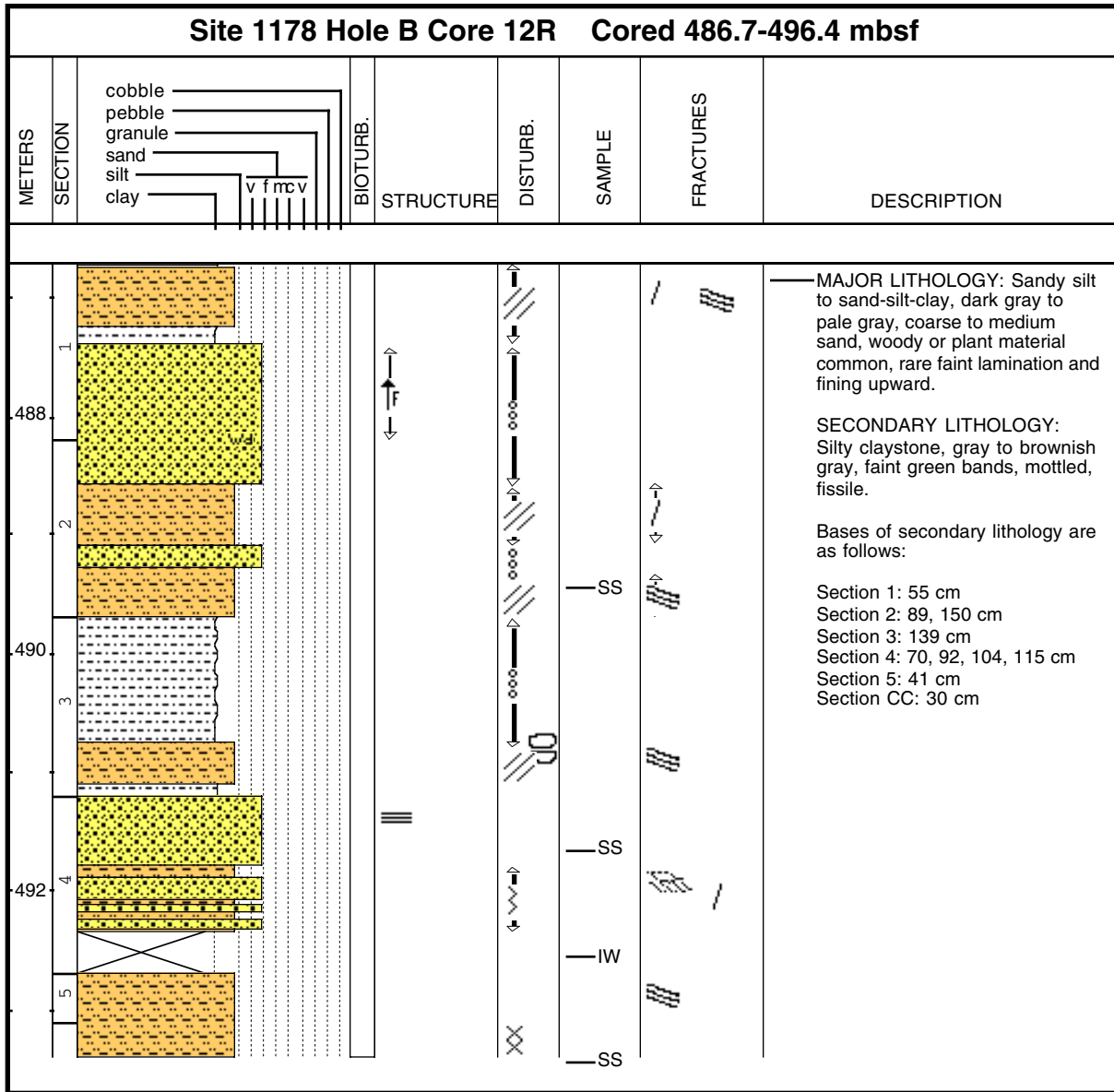
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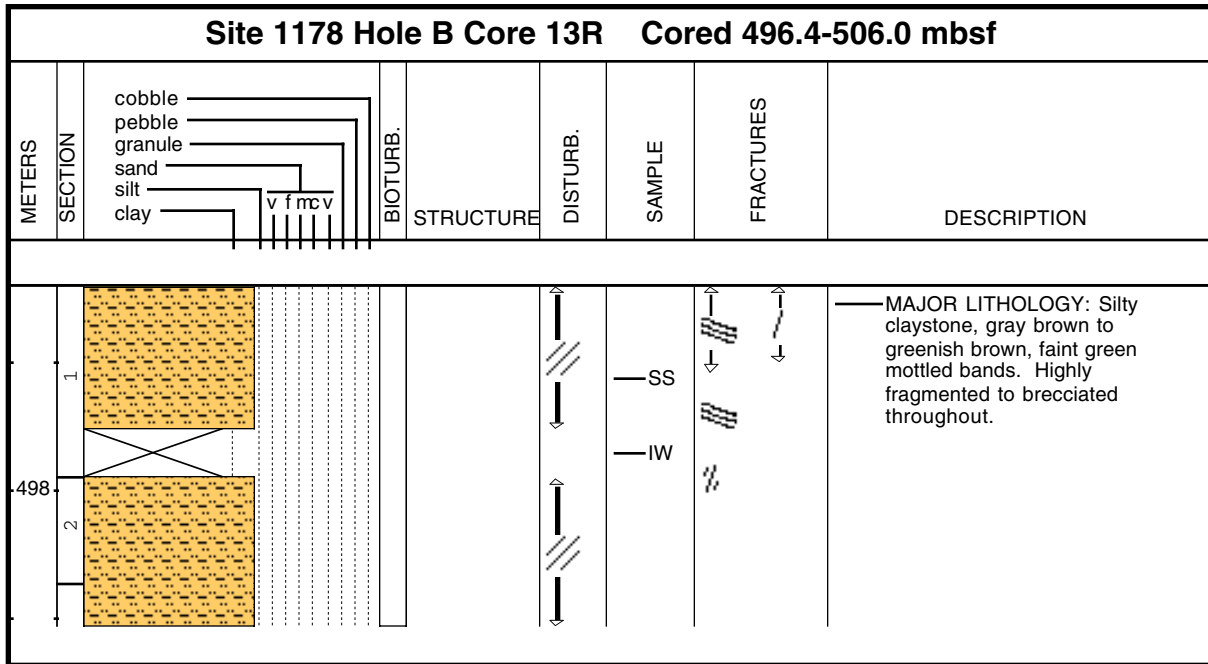
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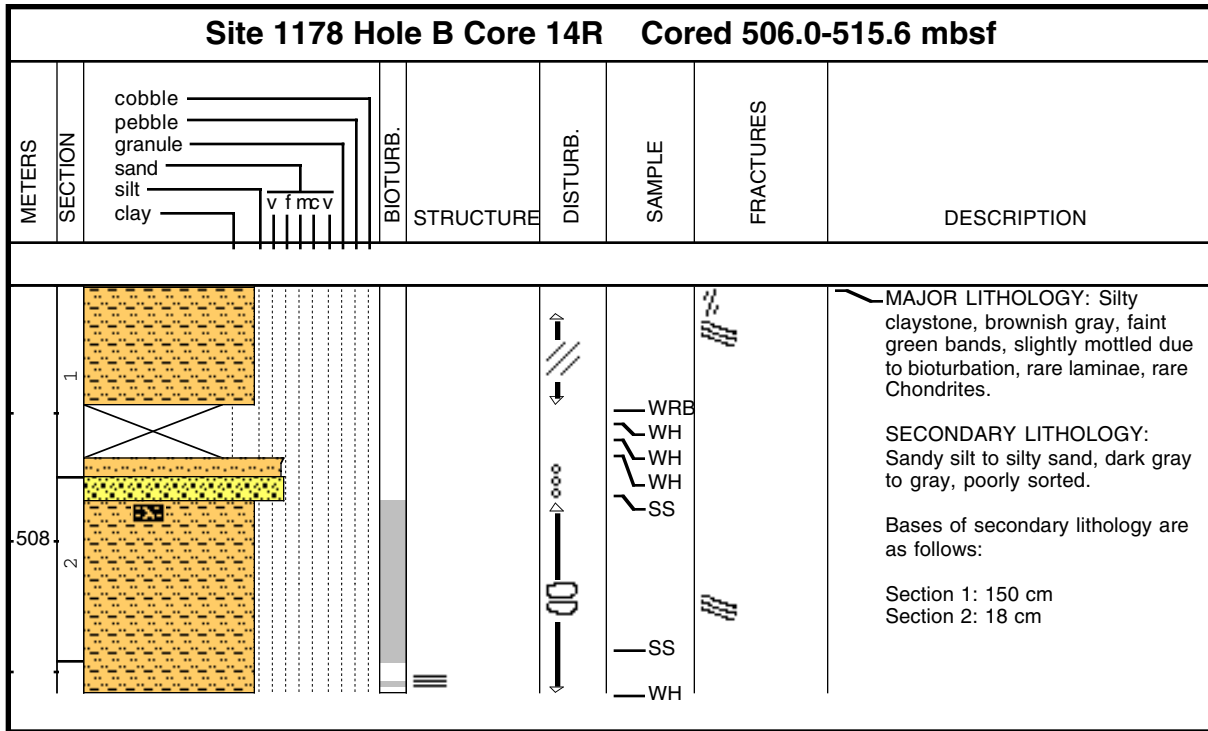
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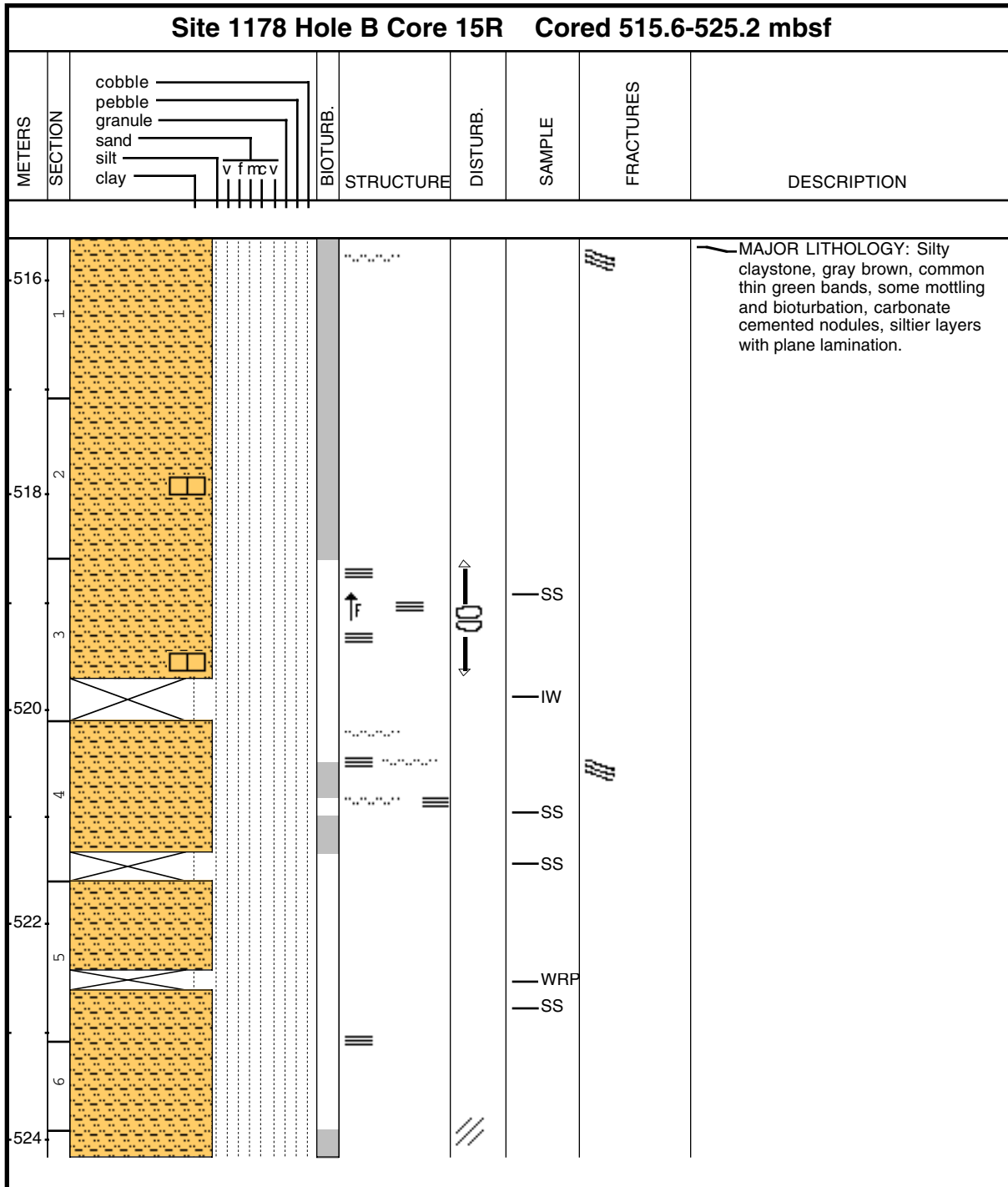
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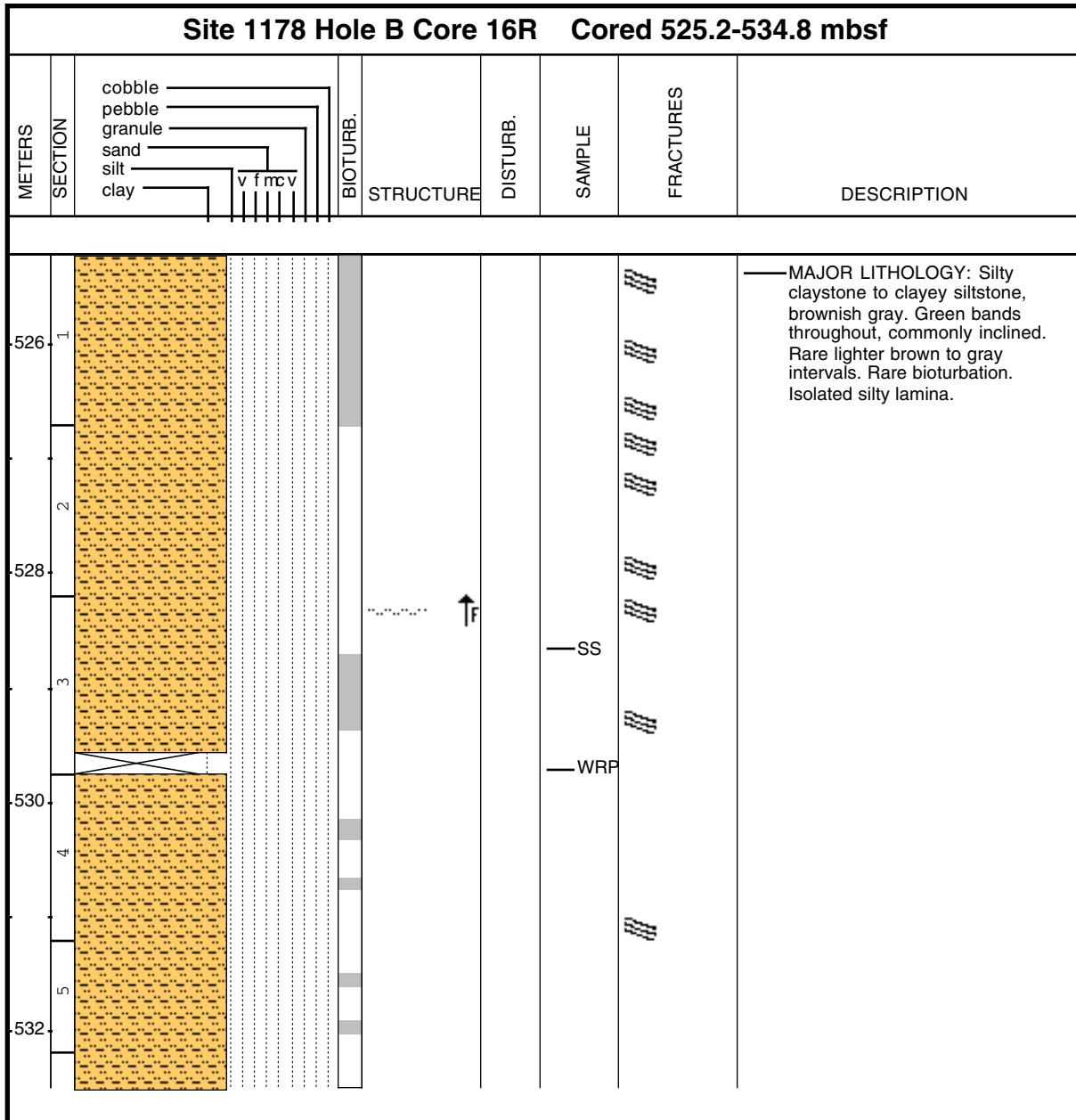
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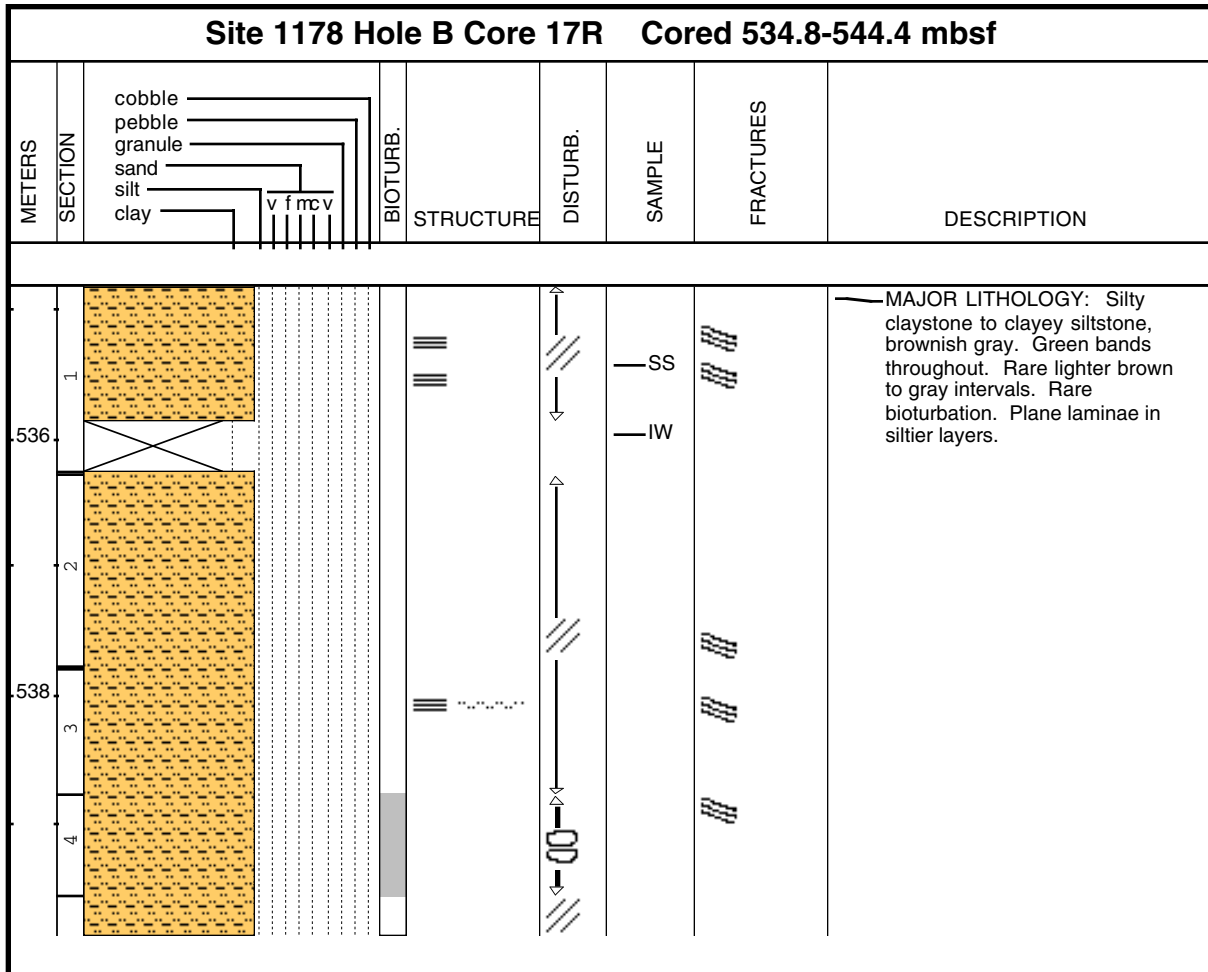
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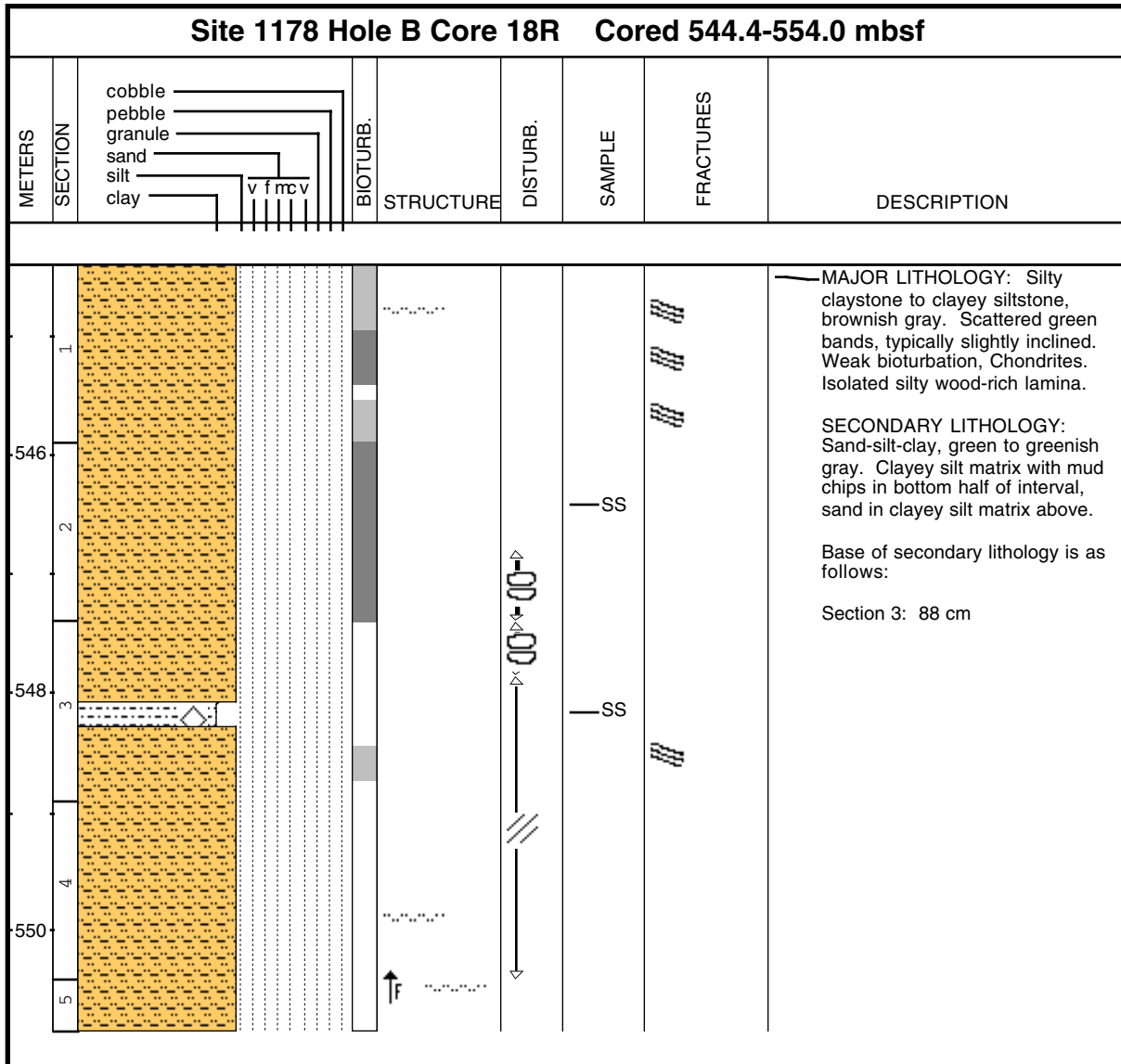
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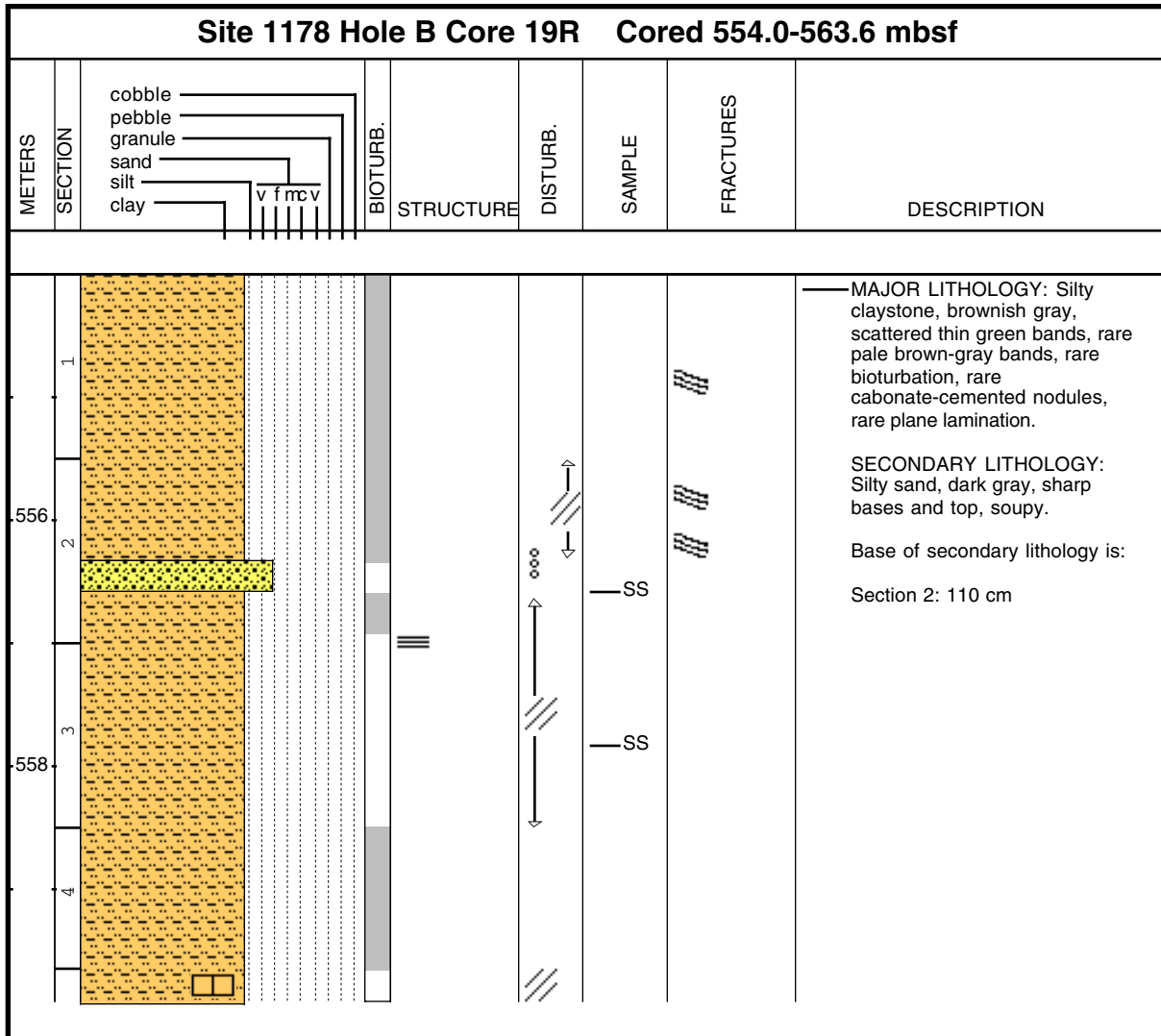
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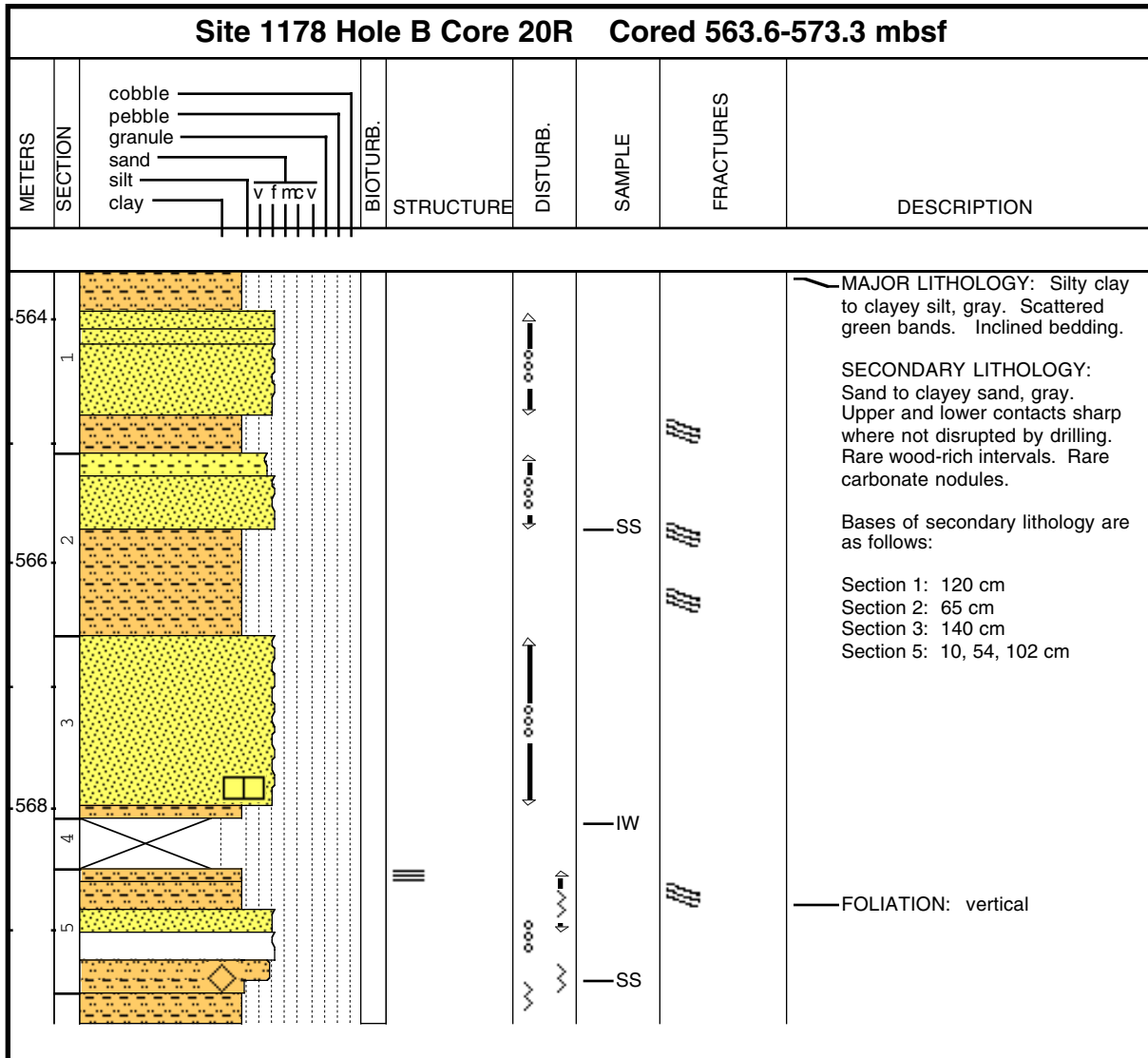
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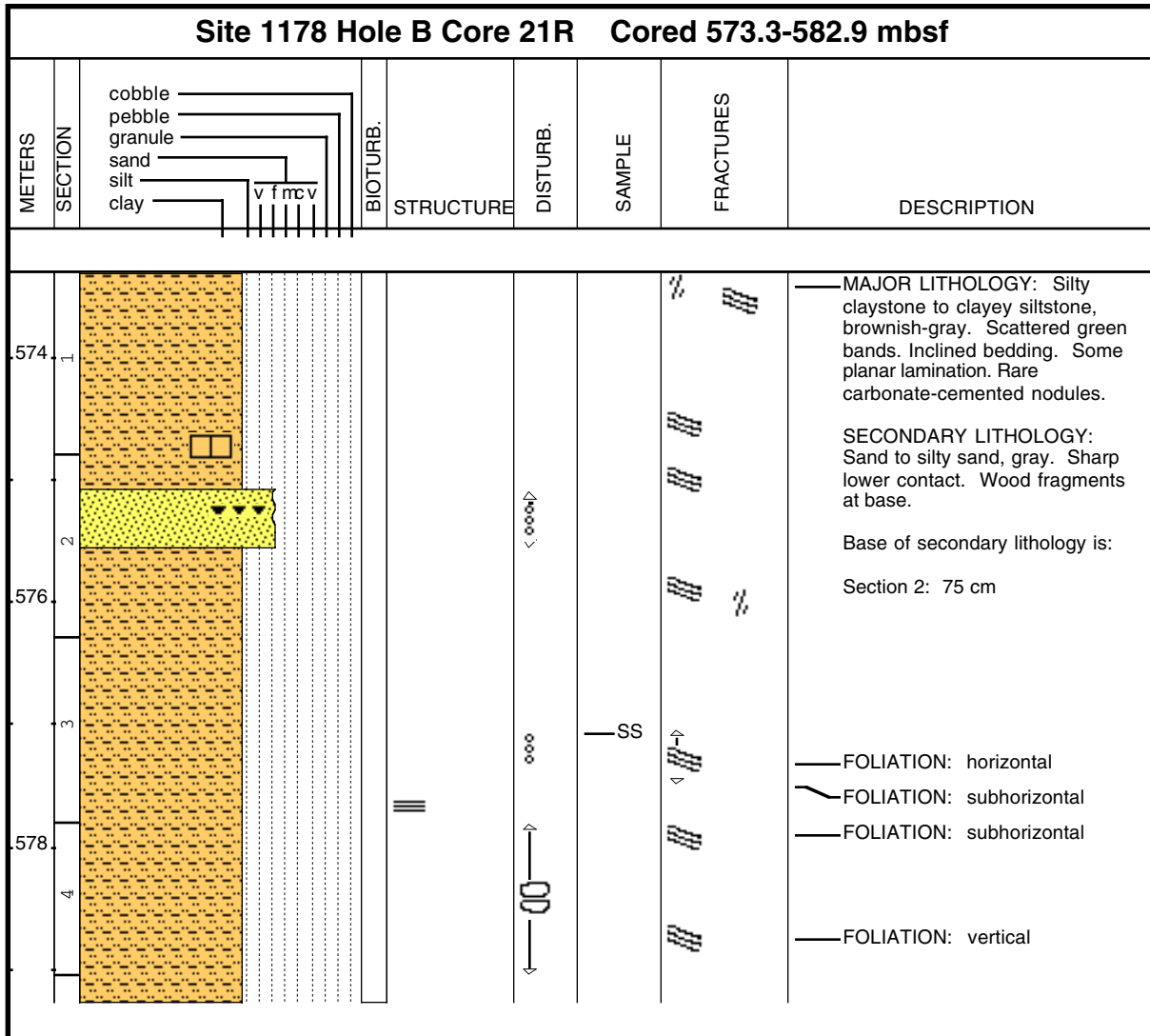
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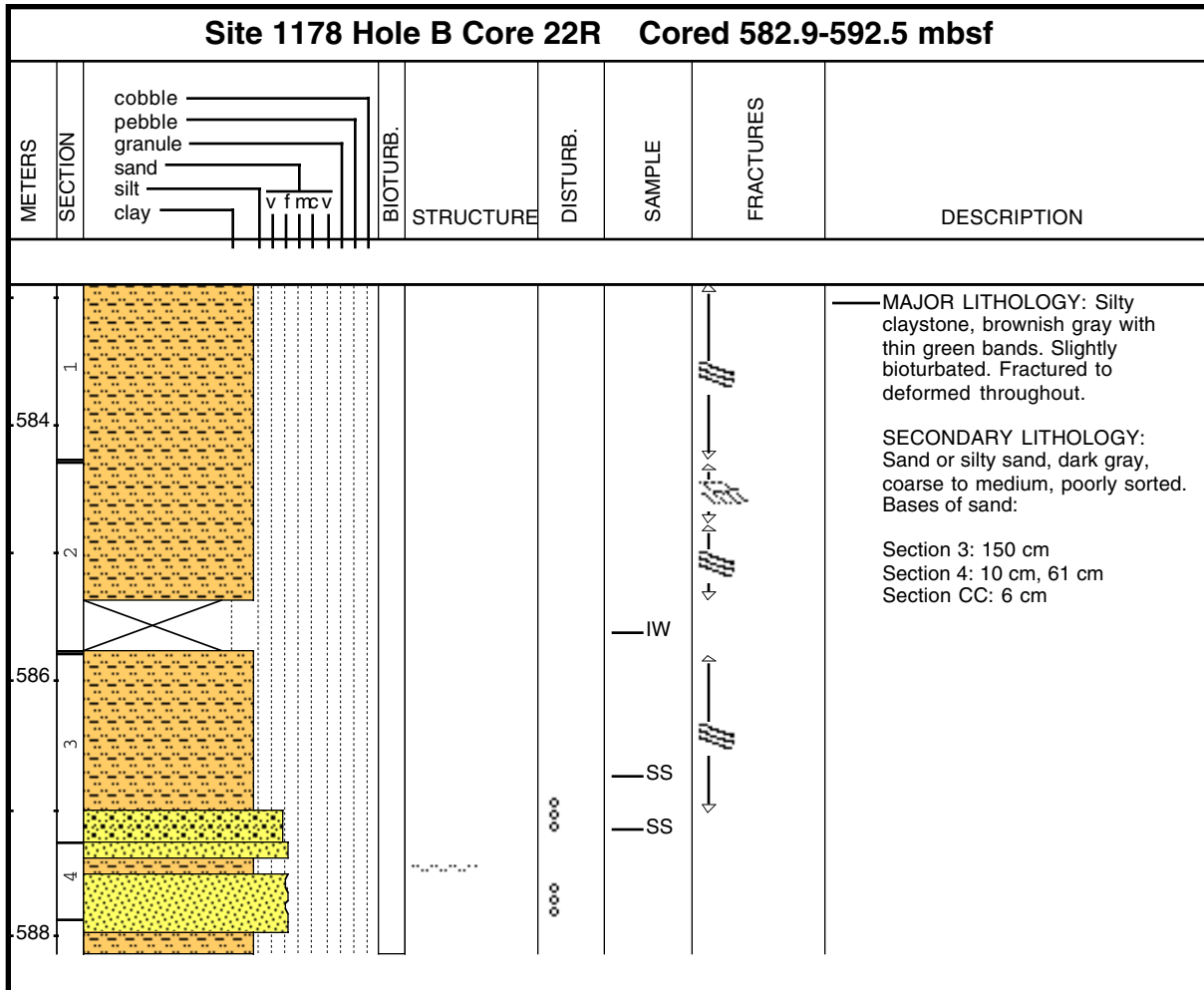
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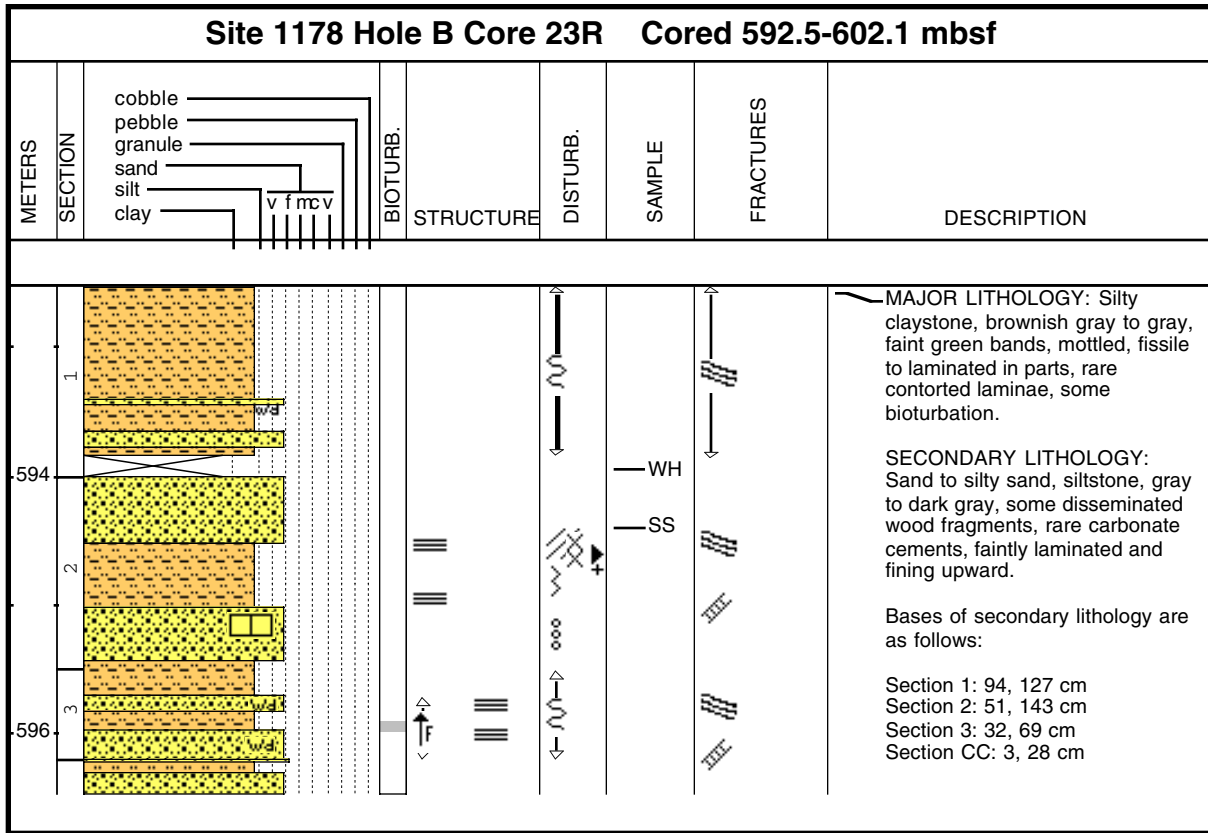
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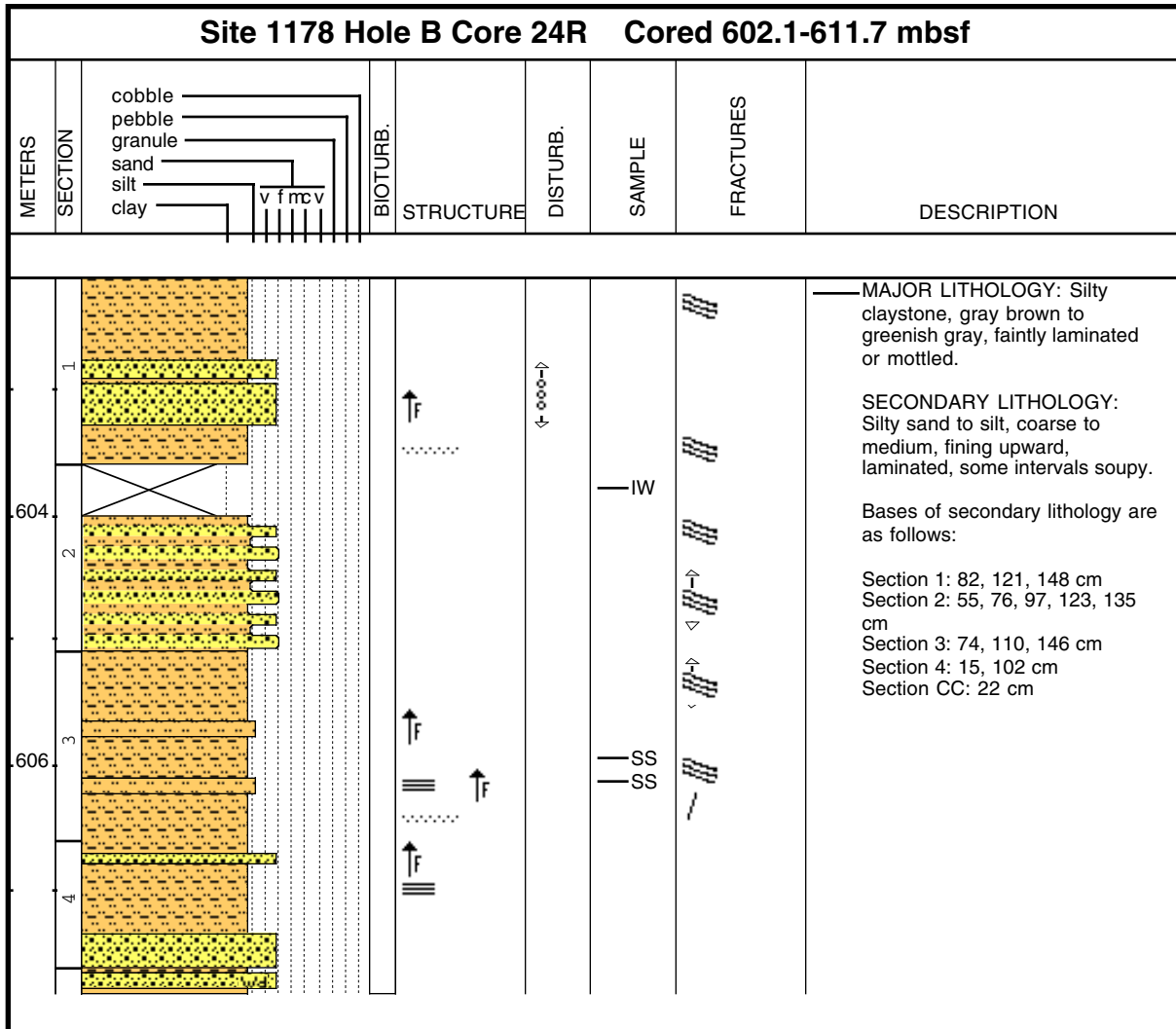
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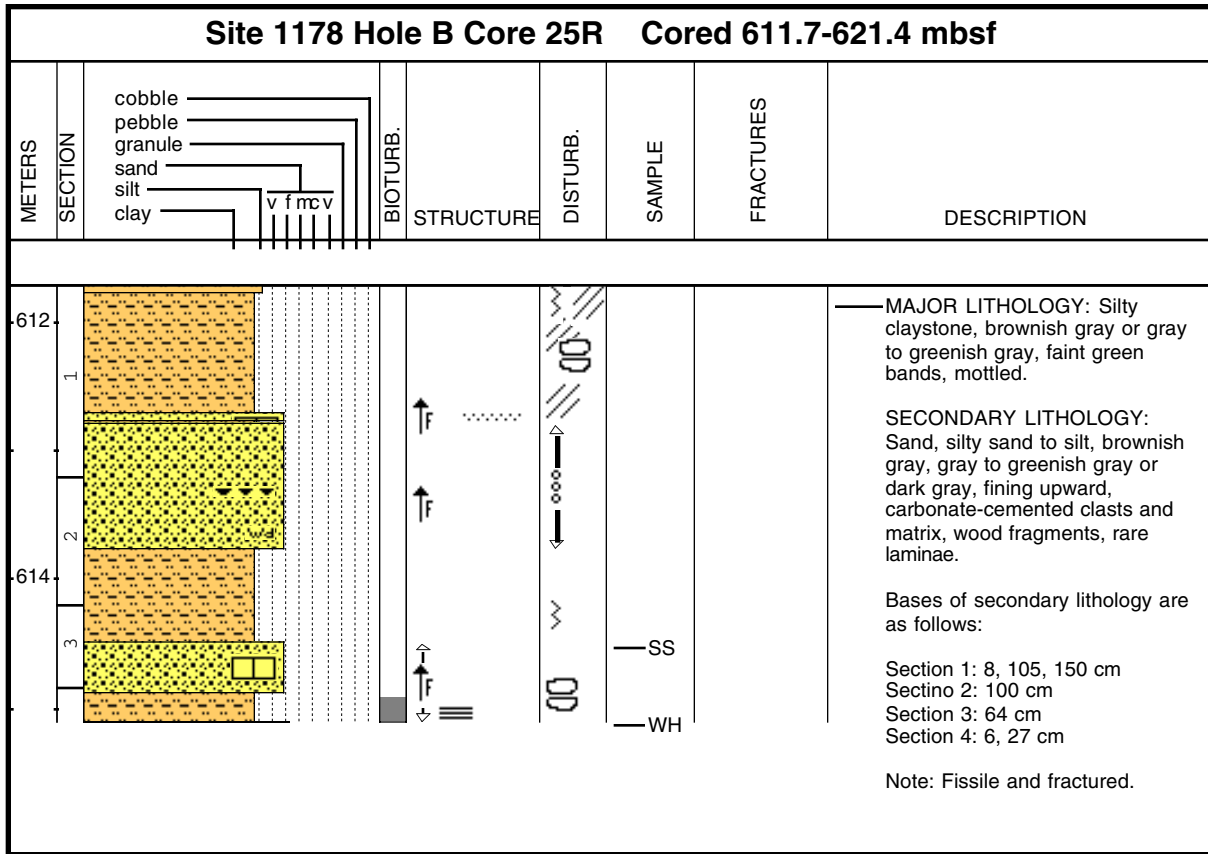
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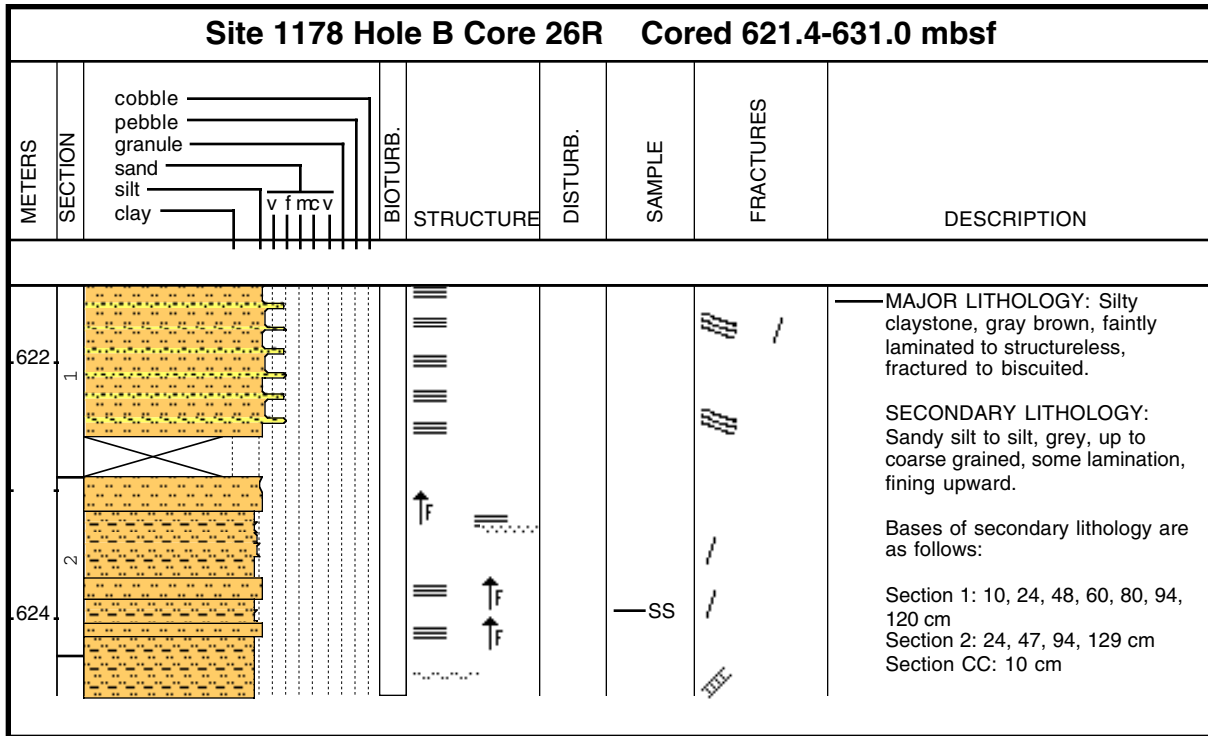
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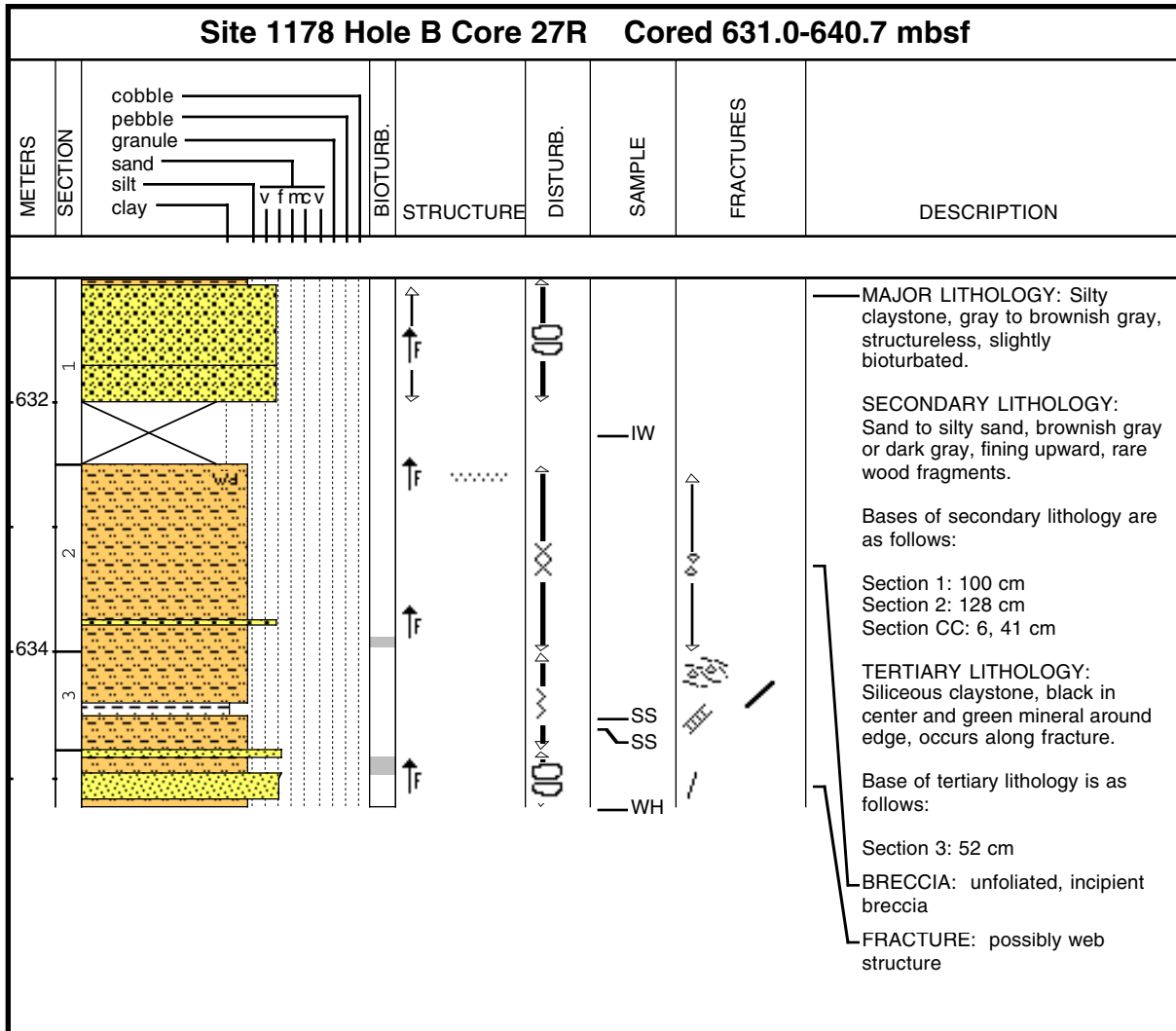
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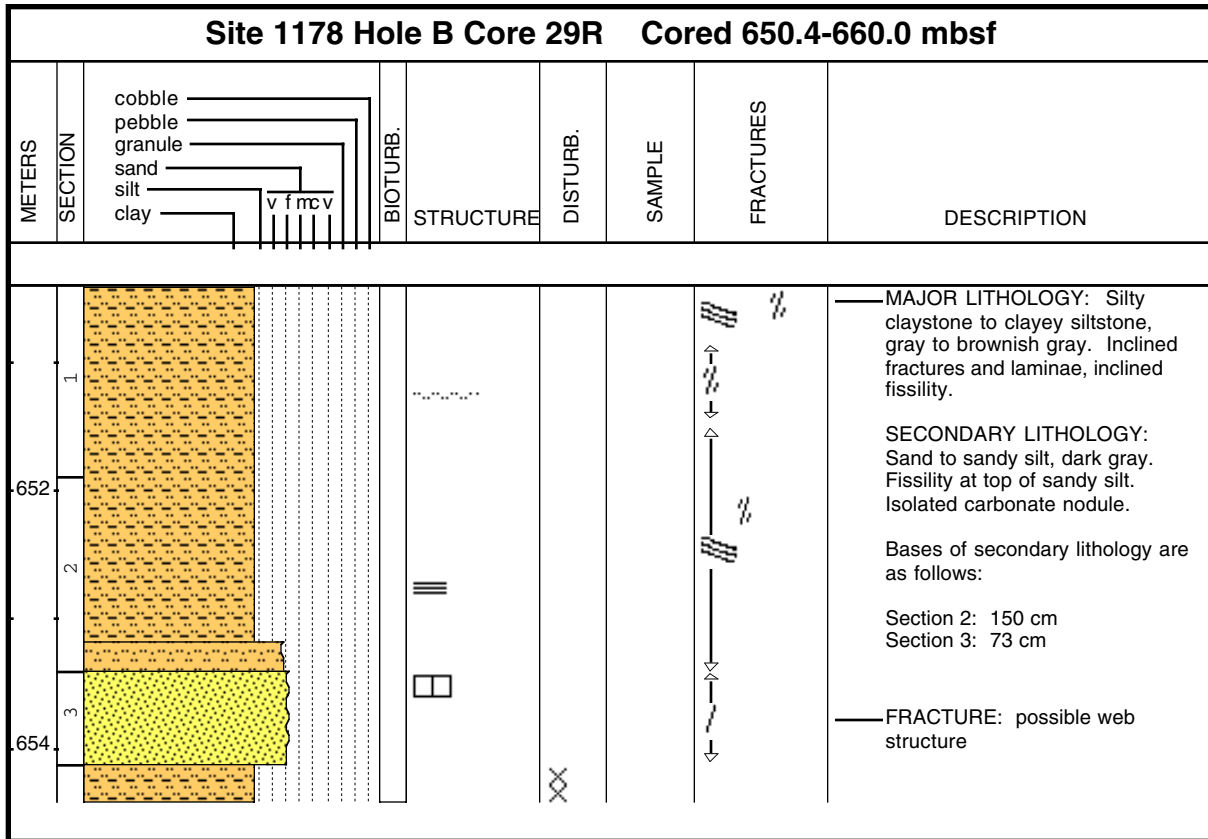
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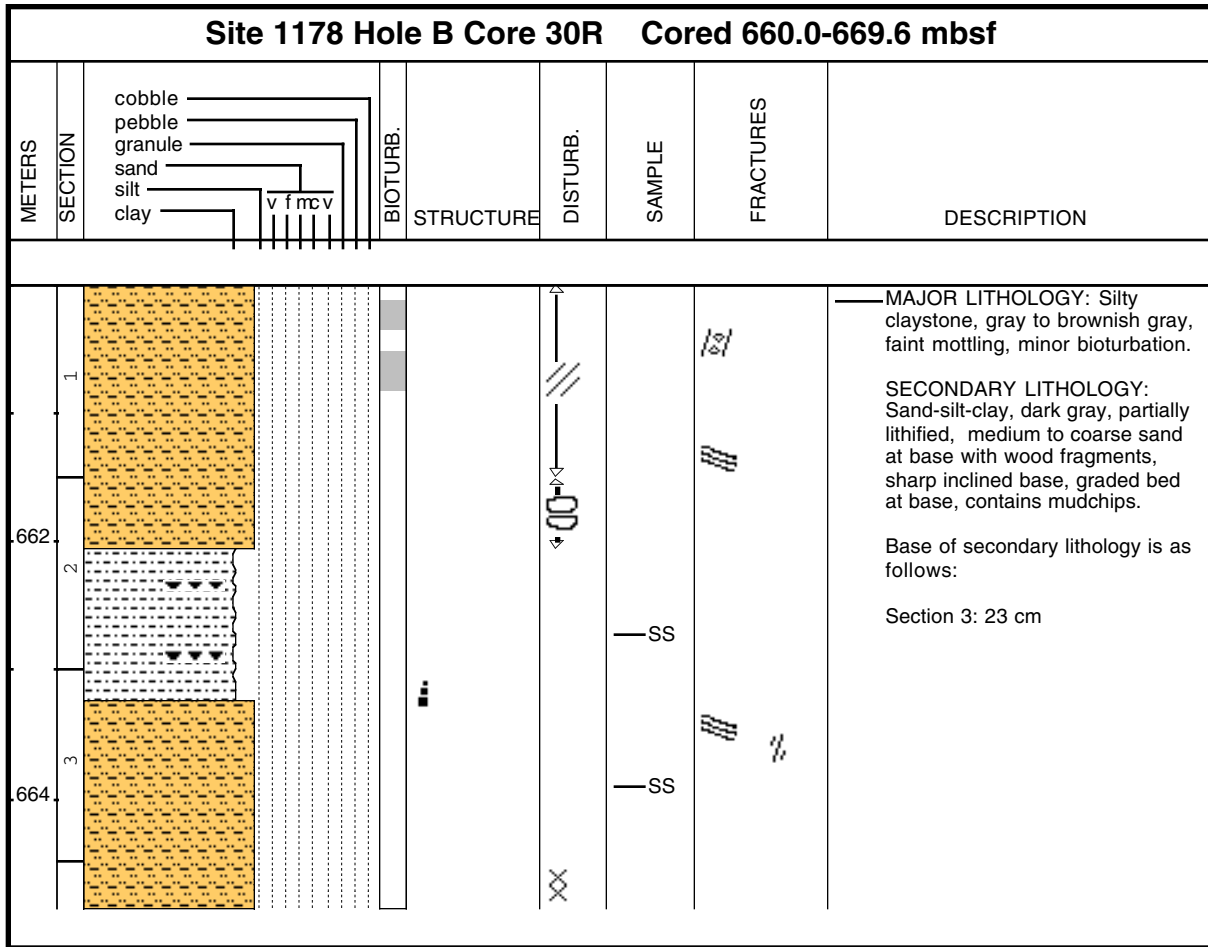
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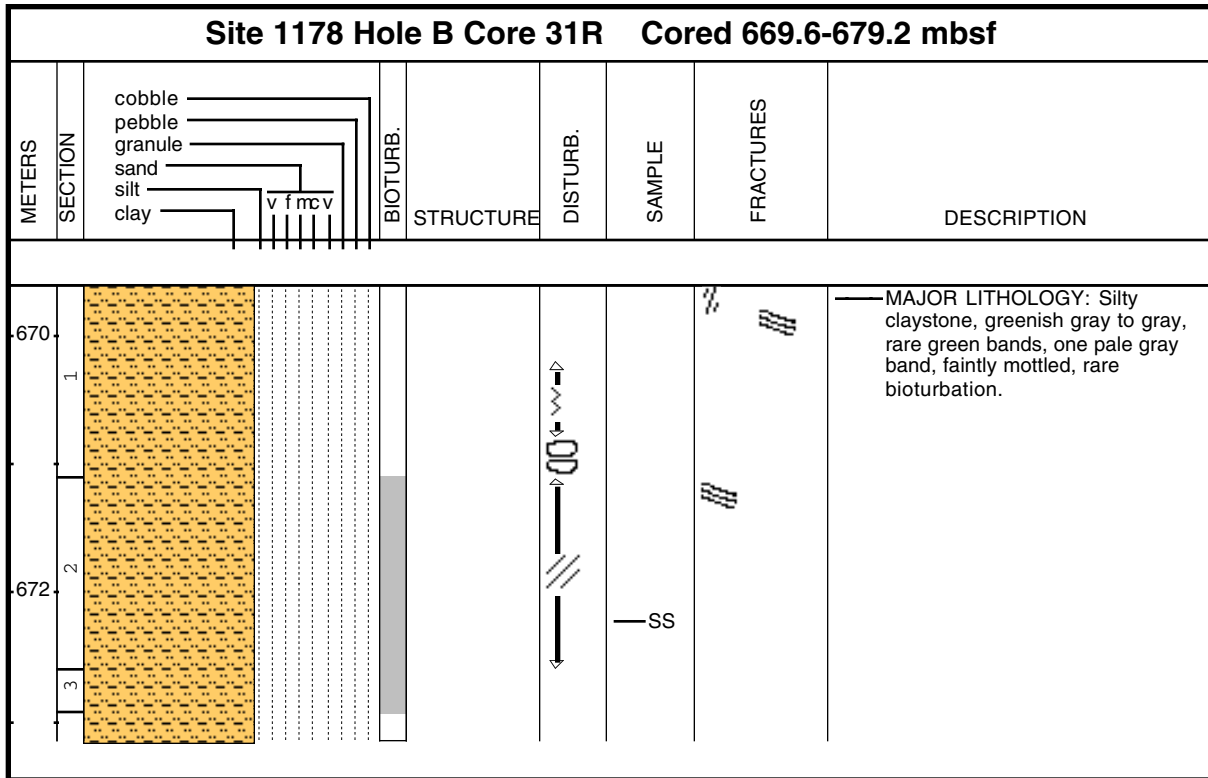
Core Photo



Core Photo



Core Photo



Sample	Texture						Mineral														Biogenic							Rock	Comments				
	Hole	Core	CT	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals	Amphibole	Carbonate	Clay	Feldspar	Glauconite	Opauques	Pyroxene	Quartz	Volcanic Glass	Zeolite	Benthic Forams	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates			Sponge Spicules	Organic debris	Lithic Fragments	
1178																																	
A	1	H	1	122	1.22	D	C	C	D				A	P		P		C	C			R	P	A	R	C	C			R	Sand-silt-clay		
A	2	H	2	93	5.33	M	D	C	C		P		P	C		P		C	D													Volcanic ash	
A	2	H	3	46	6.36	M	A	A	A			P	C	C		P		C	C		C		P	C					P		Silty sand		
A	3	H	2	32	14.22	M	D	C	P					C			R	R	D												Volcanic ash - gray		
A	3	H	4	70	17.6	D	C	A	D				A	P				P	P				C	A					P		Silty clay		
A	4	H	3	70	25.6	D	C	A	D					A	P			P	P			P		A	P	R	P				Silty clay		
A	5	H	5	120	38.6	D		A	D				D					P	P			C	R	C	R	P	P		R		Silty clay		
A	6	H	5	68	47.58	M	D	A	C		P		C	A		P	P	A	A			P	P	P	R	R	P		C		Volcanic ash - dark gray		
A	6	H	5	100	47.9	D	P	A	D				D	P				P	P			C		C	P	P	C				Silty clay		
A	7	H	2	67	52.57	M	D	A	C				C	A		P		A	P			P	P	P				P		C		Silty sand	
A	7	H	3	80	54.2	D	P	A	D				D	P				P	P			C		A	P	P	P					Silty sand	
A	8	H	3	80	61.3	D	P	A	D				D	P		R		P	P			C	R	A	R	P	P		P			Silty clay	
A	9	X	4	39	70.49	D	P	A	D				D	P			R	P	P			C	R	C	R	P	P					Silty clay	
A	11	X	3	36	88.16	D	C	A	A				D			P		C	P			P	P	C		P	C		*			Silty clay	
A	12	X	2	56	96.37	D	C	C	D				A	P				C	C			P		A	R	R	P		P			Sand-silt-clay	
A	12	X	3	38	97.69	M	A	A	A				A	P		P		A	C			P		C			C		P			Silty sand	
A	13	X	1	125	105.25	M	C	A	A				D			P		P		P				P			P		C			Green sand-silt-clay clast from gravel	
A	13	X	3	39	107.39	D	A	A	A		P	P	C	P				A	P			P		C	*		P		A			Sand-silt-clay	
A	14	X	4	90	119	D	A	C	D				R	A	C			P	C	P		C	R	A			P		P			Sand-silt-clay	
A	15	X	3	67	126.87	M	A	C	A				P	A				P	C	P	P		P		*	P		A				Clayey sand	
A	16	X	4	87	138.07	D	C	A	D				R	A	C		R	R	C	P		P		C		R	P		R			Sand-silt-clay	
A	17	X	2	108	144.78	D	A	A	A				D	P				P	C	P	P			C					C			Sand-silt-clay	
A	18	X	2	20	153	D	P	C	D	R			P	A				P	C	C		P		C			P		P			Sand-silt-clay	
A	19	X	2	56	163.46	D	C	A	D				D	P				P	P			P		P			P		R			Clayey silt	
A	19	X	5	35	167.75	M	C	D	A		R			P				P	D													Volcanic ash - light gray	
A	19	X	CC	16	168.45	D		A	D				D	P				P	P				R	C			P					Clayey silt	
A	20	X	3	60	173.44	D	C	A	D				D	C				P	P			C	R	C		P	P		R			Clayey silt	
A	21	X	5	128	187.68	M	A	A	A				A	A				C	P			P		C	R		P					Sand-silt-clay	
A	21	X	6	40	188.3	D		A	D				D	P				P	P			P		C	R		P		R			Clayey silt	
A	22	X	1	88	190.68	M		A	A				D	A				D				P		C								Volcanic ash - light gray	
A	22	X	6	100	198.3	M	A	A	A				A	A				A	P					C								Sand-silt-clay	
A	23	X	1	37	199.57	M		C	D				D	A					R														Carbonate-cemented claystone
A	23	X	1	68	199.88	M	A	A	A				A	A				A	P			P	R						C				Sand-silt-clay
A	23	X	2	92	201.62	M	D	A					A					P	A										A				Silty sand
A	24	X	1	50	209.3	M		C	D				A					P						D								Nanno clay	
A	24	X	3	80	212.49	D		A	D				D	P				P	P				R	P			R		P			Clayey silt	
A	25	X	2	72	220.59	D		A	D				D	P				P	P			P		P			P					Clayey silt	
A	25	X	5	75	225.05	M	A	A	A				A	A				A						P			P		A			Sand-silt-clay	
A	26	X	1	40	228.5	M	A	A	D				A	C				C						P				C		P		Sand-silt-clay	
A	26	X	2	39	229.99	D		A	D				D	P				P						P			P					Clayey silt	
A	26	X	3	14	231.24	M	D	A	C				C	A				P	A									A				Sand	
A	27	X	4	104	243.34	M	C	A	A				R	A	C		P		A	C				P					C			Silty sand	
A	28	X	3	52	250.92	D	C	A	D	P			D	P				P	C					C		R	P		P			Silty clay	
A	28	X	4	15	252.05	M	D	A	C				C	P				C	A	C				P			P		C			Silty sand	
A	29	X	3	118	260.89	D		C	D				R	A	C			P	C	C				C					P			Silty clay	
A	29	X	5	132	263.96	M	D	C	C	P			C	C	P	R		A	P										C			Sandy silt	
A	30	X	4	122	271.92	D	C	A	D				A	P				P	A	P									C			Silty clay	
A	30	X	5	70	272.9	M	D	C	C				C					C	A	P			*				R		A			Silty sand	
A	31	X	3	95	280.15	D		C	D				A	P				C		P				P					P			Silty clay	

Sample	Texture					Mineral														Biogenic								Rock	Comments		
	Hole	Core	CT	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals	Amphibole	Carbonate	Clay	Feldspar	Glauconite	Opauques	Pyroxene	Quartz	Volcanic Glass	Zeolite	Benthic Forams	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates			Sponge Spicules	Organic debris
1178																															
A	31	X	5	32	282.42	M	A	C	D				R	A	C		P		C	P					P			R		P	Silty sand
A	32	X	3	131	289.66	M	D	C	C					C	R		C		A	C							*		A	Silty sand	
A	32	X	3	141	289.76	D		A	D					D	C				C			*		*			R		C	Silty clay - green	
A	32	X	4	62	290.47	D	C	C	D	*		P	A				P		C	C	P			P		*		P	Silty claystone		
A	33	X	2	58	297.58	D	C	A	D			R	D	P		P		C	P	P				P		P		C	Silty claystone		
A	33	X	2	78	297.78	D	C	A	D			R	D	P		P		P		P				P		R		C	Silty claystone		
A	34	X	1	23	305.33	D	P	C	D			P	D	P	R	R		C	P					R					C	Silty claystone	
A	34	X	1	105	306.15	M	A	C	D			*	D	P		P		A										P	Clayey sand		
A	35	X	1	119	315.99	D		A	D					D	P		P	P				R		P			R			Clayey silt	
A	35	X	2	130	317.6	M	D	A	C					C	A			A						R				A	Silty sand		
A	35	X	3	66	318.46	D		A	D					D	P			P						R						Silty clay	
A	35	X	5	26	321.06	M	D	A	C					A				A	R					P				A	Silty sand		
A	37	X	3	45	337.45	D		A	D					D	C		R		C				R	P			R			Silty claystone	
A	37	X	6	40	341.9	M	A	A	A					A	A		P		A					P			C	A	Sand-silt-clay		
A	38	X	2	14	345.24	D		A	D					D	P				P	R					C					Silty clay	
A	38	X	CC	11	350.32	M	A	A	A					A	A		R		A					P				A	Sand-silt-clay		
A	39	X	1	120	354.4	M	A	D	A					P	P				D					R				C	Sand-silt-clay		
A	40	X	2	43	364.83	D		A	D					D	P				P					P				P	Silty clay		
A	40	X	4	1	367.41	M	D	A	A					A	A				A					P				A	Silty sand		
A	41	X	1	68	373.18	D		A	D					D	C				C					P			R	P	Silty clay		
A	42	X	2	18	383.78	D		A	D					D	C				C	R								P	Silty clay		
A	42	X	2	22	383.82	D		A	D					D	C				C					P				P	Silty clay		
A	43	X	3	16	394.76	D		C	D	P		*	D	C		R		C	P					P						Silty clay	
A	43	X	CC	19	395.48	M		A	A			D						*												Carbonate cement	
A	44	X	2	119	403.26	D	C	C	D					D	P		P		C		P			P				C	Silty clay (green)		
A	44	X	3	146	404.98	M	C	D	C	P			A				C	A	*	P								A	Sandy silt		
B	2	R	2	25	396.75	M	A	A	C					C	P		C	A	P									A	Silty sand		
B	2	R	3	10	397.76	D	C	A	D					D	P		P		C	P	P			P				C	Silty clay		
B	3	R	1	57	400.57	M			D			D						P												Carbonate cemented nodule	
B	3	R	3	96	403.96	M	C	A	A	P			P	A	C			A	C					*				P	Silty sand		
B	4	R	3	94	413.54	D	C	A	D			P	D	P			P		C	P				P				P	Silty clay (brown)		
B	4	R	3	124	413.84	M	C	C	D				A				C		C	C	P							C	Silty clay (green)		
B	4	R	4	46	414.56	M	C	A	D				A	P			P		C	C				*				P	Silty clay (green)		
B	5	R	2	80	421.6	M	D	A	C					C																Silty sand	
B	5	R	2	100	421.8	D		A	D									P										R	Silty claystone - green		
B	5	R	3	135	423.65	M	D	A	C					P	A			A						R				A	Silty sand		
B	5	R	3	50	422.8	D		A	D						P			C						P						Silty claystone	
B	5	R	3	103	423.33	D		A	D					D	P			P						P				P	Silty claystone		
B	5	R	3	50	422.8	D		A	D					D																Silty claystone	
B	5	R	2	80	421.6	M	D	A	C									A										C	Silty sand		
B	5	R	2	100	421.8	D		A	D					D	P															Silty claystone - green	
B	5	R	2	80	421.6	M	D	A	C						A									P						Silty sand	
B	6	R	1	50	429.5	D		A	D					D	P				P					P						Silty claystone	
B	7	R	2	97	441.07	M		A	D					D	C		R		A					P				P	Silty claystone - green		
B	7	R	2	100	441.1	D		A	D					D	P			R		C				P						Silty claystone	
B	8	R	2	112	450.82	M		A	D					D	P		*		C					R						Silty claystone	
B	9	R	2	83	460.13	D	C	C	D	P			D				P		C	C				P				P	Silty clay (brown)		
B	9	R	4	69	462.99	M	C	A	D				P	D	P		P		C	C				*				P	Silty clay (green)		
B	9	R	CC	20	464.69	M	C	A	A				A	C	P				C									P	Carbonate cemented silty sandstone		
B	10	R	2	102	469.23	M	A	A	C				P	A	P				C	P							C	C		Sandy silt	

Hole	Sample					Lithology	Texture			Mineral														Biogenic							Lithic Fragments	Comments
	Core	CT	Section	Top (cm)	Depth (mbsf)		Sand	Silt	Clay	Accessory Minerals	Amphibole	Carbonate	Clay	Feldspar	Glauconite	Opauques	Pyroxene	Quartz	Volcanic Glass	Zeolite	Benthic Forams	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Sponge Spicules	Organic debris				
1178																																
B	10	R	3	84	470.55	D	C	A	D			P	D	P		P		C	P									P	Silty clay (green)			
B	11	R	3	136	481.46	M	A	C	D	P		P	D	C		P		C	P									R	Sand-silt-clay			
B	11	R	4	10	481.7	M	A	C	A				A	C				A										P	Sandy silt			
B	12	R	2	115	489.35	D	C	A	D			P	D	P		P		P						*			P	P	Silty claystone			
B	12	R	4	44	491.64	M	D	A	C				C	P		P		A	P								P	C	Silty sand			
B	13	R	1	72	497.12	D	P	A	A			R	D	C		P		A	P									C	Silty claystone - brownish gray			
B	14	R	2	13	507.63	M	D	A	C			C	C	P				A	P	P							P	C	Silty sand			
B	14	R	2	132	508.82	D	P	C	D			P	D	P				C	P				*				P	P	Silty claystone			
B	15	R	3	33	518.93	D		C	D	*		R	D	P				P	R				C			R			Silty claystone			
B	15	R	4	86	520.96	M		C	D			P	A	P		*		P					A			*		R	Carbonate-rich claystone			
B	15	R	5	116	522.76	M		C	D	*		P	A	P		R		P					A			*			Carbonate-rich claystone			
B	16	R	3	45	528.65	D		A	D			D	C		R		C	P					P						Silty claystone			
B	17	R	1	60	535.4	D		A	D	R			D	P		R		P	P				P			P			Silty claystone			
B	18	R	2	52	546.42	D		A	D				D	P		R		C					P						Silty claystone			
B	18	R	3	75	548.15	M	A	A	D			A	A	P				C					C					P	Sand-silt-claystone			
B	18	R	4	97	549.87	M		A	D				D	A		P		A					P				C	P	Silty claystone - siltier			
B	19	R	2	105	556.55	M	D	C	C				P	A				A					P					C	Silty sand			
B	19	R	3	80	557.8	D		A	D			P	D	P		R		P					P						R	Silty claystone		
B	20	R	2	60	565.7	D	D	A	C				C	A				A					P				P	C	Sand			
B	20	R	5	97	569.47	M	A	A	C				A	A				A					R				P	C	Silty sand			
B	21	R	3	76	577.06	D		A	D				D	C				A					P							Silty claystone		
B	22	R	3	95	586.73	D	P	C	D	P		R	D	P		R		C	P				*					P	Silty claystone			
B	22	R	3	129	587.07	M	A	A	A	P		R	A	P		P		A					R					P	Silty sand			
B	23	R	2	37	594.37	M	D	C	A				C	C		*	C	A	P				C					A	Silty sand			
B	23	R	3	57	596.07	D	A	D		P				P		P		A		*								A	Siltstone			
B	24	R	3	86	605.96	D		P	D			A	D	R				P	P											Silty claystone		
B	24	R	3	101	606.11	M	P	A	D	P			P	A	C			A	P				P					P	Silt			
B	25	R	3	32	614.52	M	A	A	C			P	C	C		P		A	P									A	Sandy silt			
B	26	R	2	87	623.77	M	C	A	A			P	D	P				C	P				P				P		Silty sand			
B	27	R	3	51	634.51	M	D	C	C				D	P		P		P	P											Siliceous claystone		
B	27	R	3	60	634.6	D	C	A	D				D			*		C	P									P	Silty claystone			
B	28	R	2	70	642.9	D		A	D				D	P		R		C												Silty claystone		
B	28	R	3	52	644.22	M		C	D			A	D					R					P							Carbonate-cemented claystone		
B	29	R	1	139	651.79	D		A	D				D	P		R		C					P				P		Silty claystone			
B	30	R	2	122	662.72	M	A	A	A				A	A				A					P				A		Sand-silt-clay			
B	30	R	3	90	663.9	D		A	D				D	P		R		C					P				R		Silty claystone			
B	31	R	2	112	672.22	D		A	D				D	P				P	P				P							Silty claystone		