

Prepared in cooperation with the California Department of Water Resources

Geologic Logs of Geotechnical Cores From the Subsurface Sacramento-San Joaquin Delta, California – Appendix

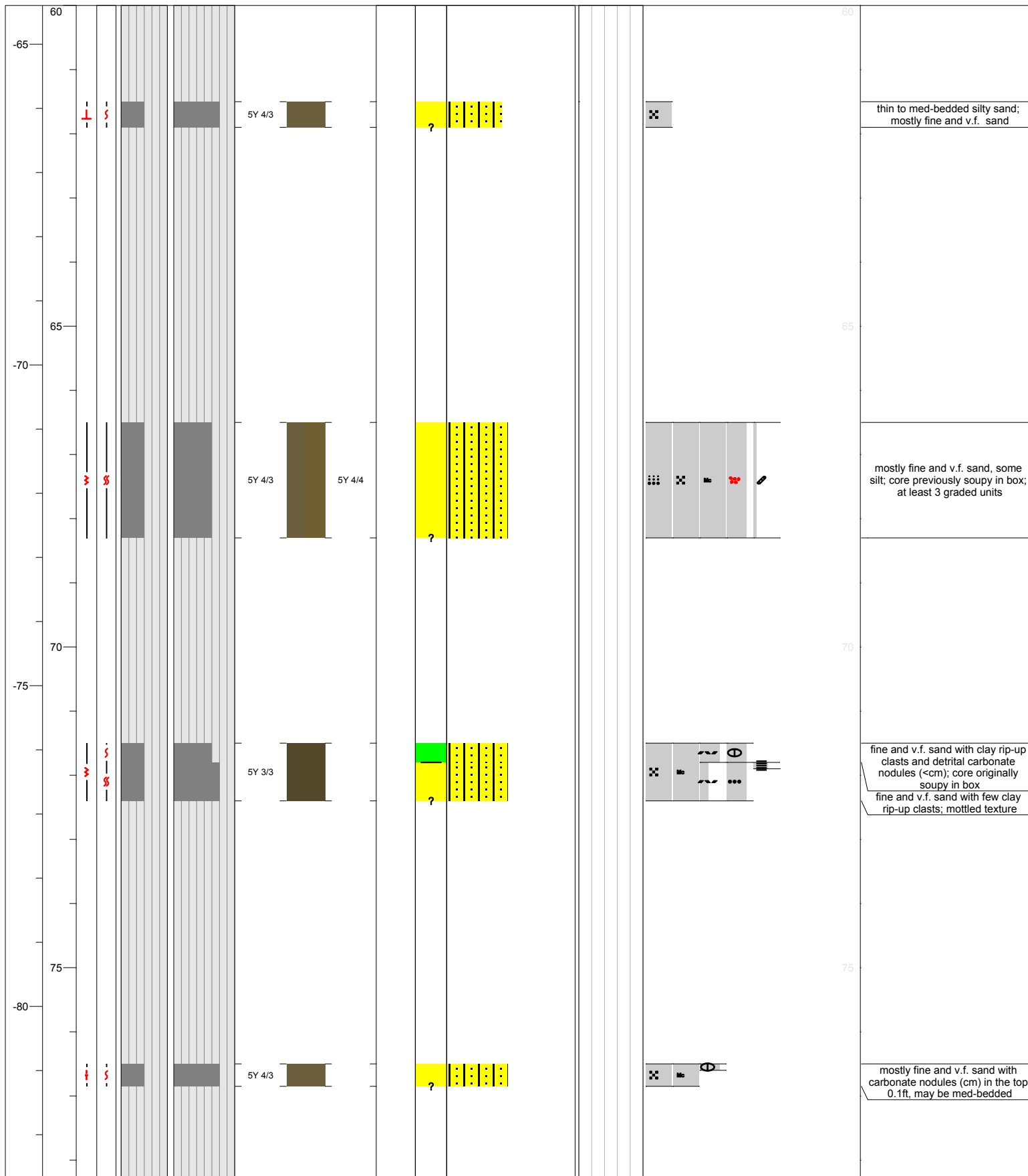
By Katherine L. Maier, Daniel J. Ponti, John C. Tinsley, Emma Gatti, and Mark Pagenkopp



Open-File Report 2014–1127, Appendix

U.S. Department of the Interior
U.S. Geological Survey

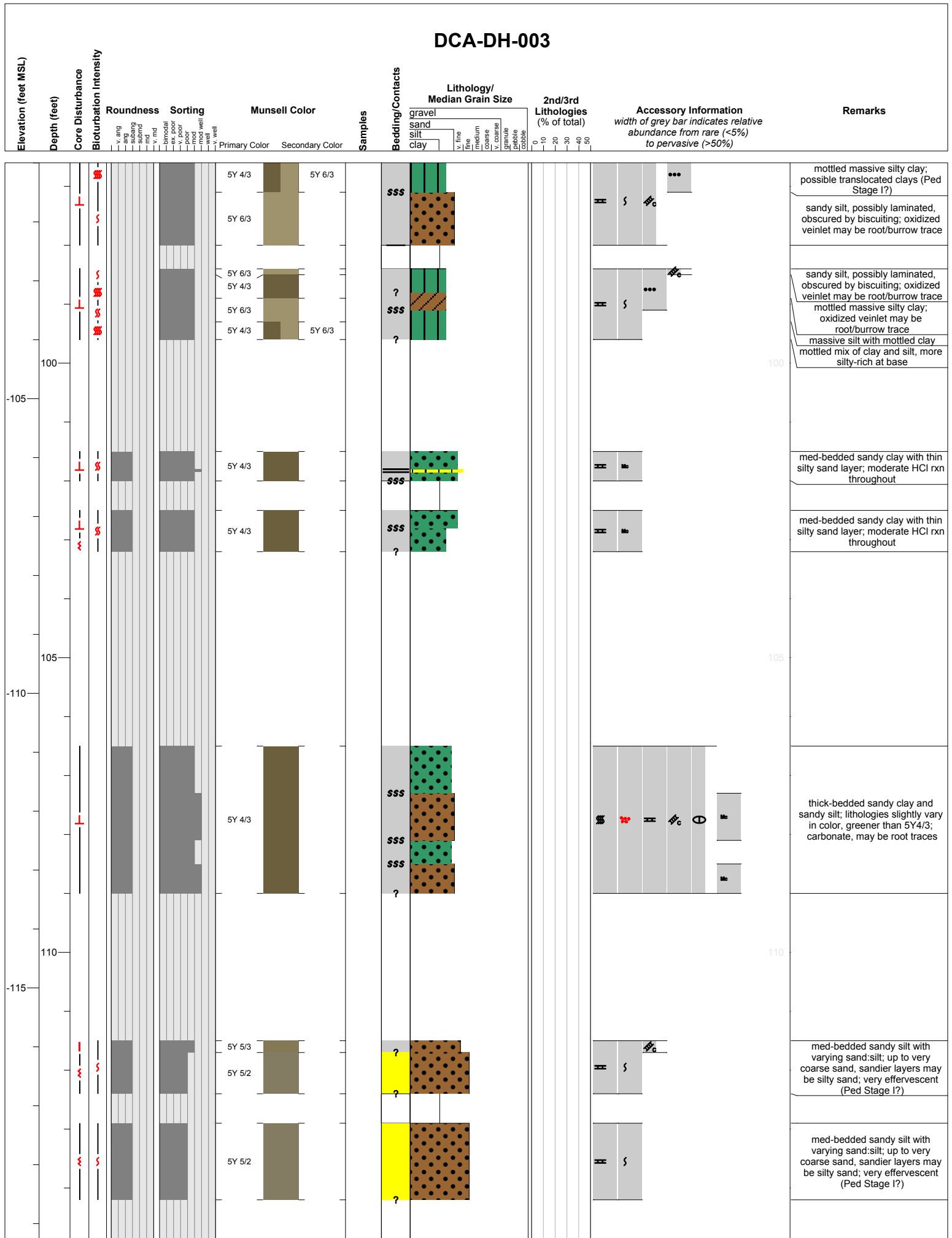
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang		Primary Color			gravel			
				ang		Secondary Color			sand			
				subang					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					gravel			
				well					fine gravel			
				v. well					coarse gravel			
									cobble			
										0		
										10		
										20		
										30		
										40		
										50		



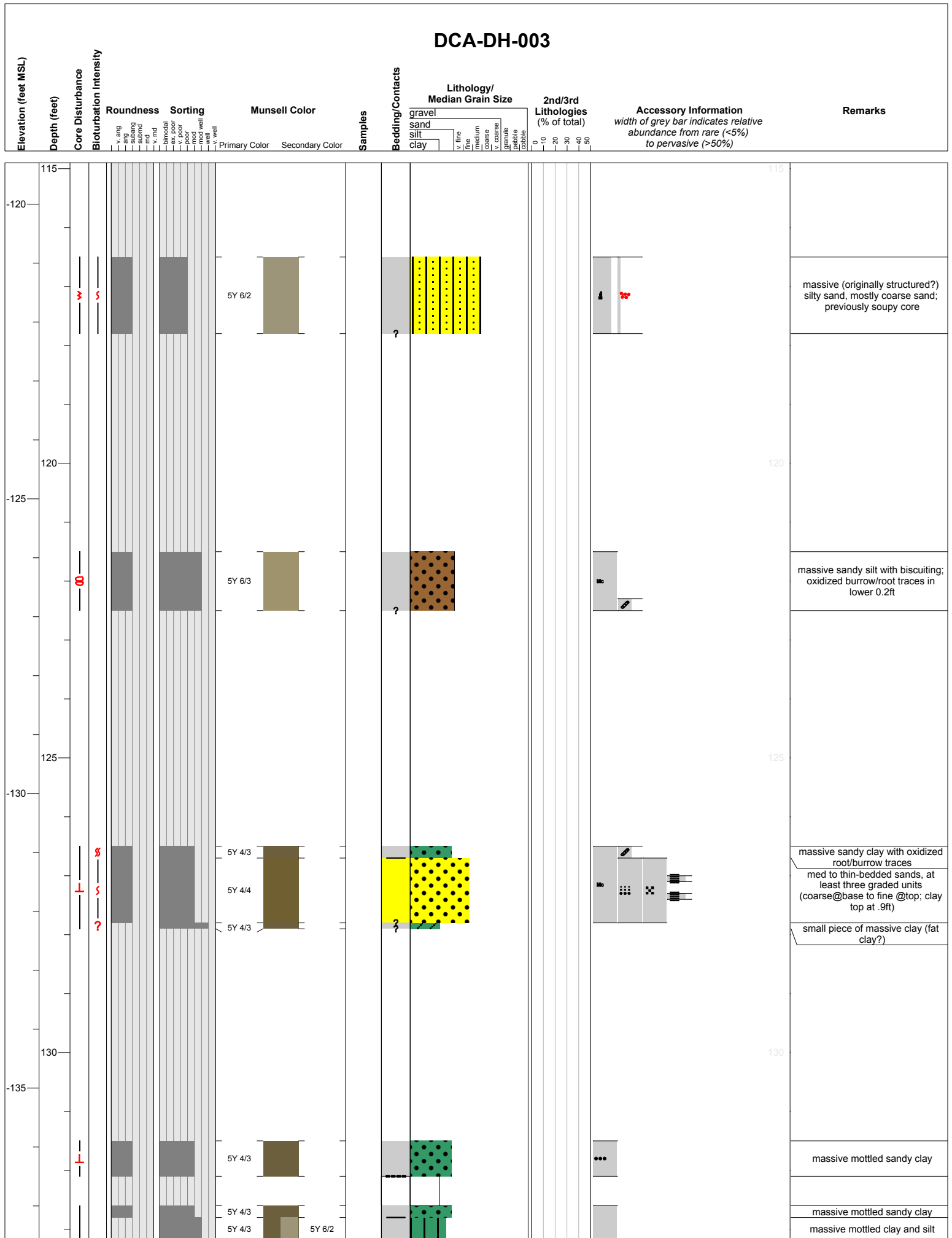
DCA-DH-003

DCA-DH-003													
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color		Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang mod. md v. md bimodal ex. poor poor mod. well v. well		Primary Color	Secondary Color			gravel sand silt clay	v. fine fine medium coarse v. coarse granules pebble cobble	0 10 20 30 40 50	
	80												
						5Y 4/3			?			PAL	sandy clay, highly fractured clay (fat clay) with carbonate (Ped Stage II-?)
	85					5Y 4/3			?			CRB PAL	fat clay with carbonate and pervasive effervescence (Ped Stage II?)
	90					5Y 4/3			?			CRB PAL	fat clay with carbonate and pervasive effervescence (Ped Stage II?)
	95					5Y 4/3	5Y 6/3		sss				mottled clay and sandy silt lithologies med-bedded sandy silt with sandier layers
						5Y 6/3	5Y 4/3		?				med-bedded sandy silt with sandier layers
	95												
	100												

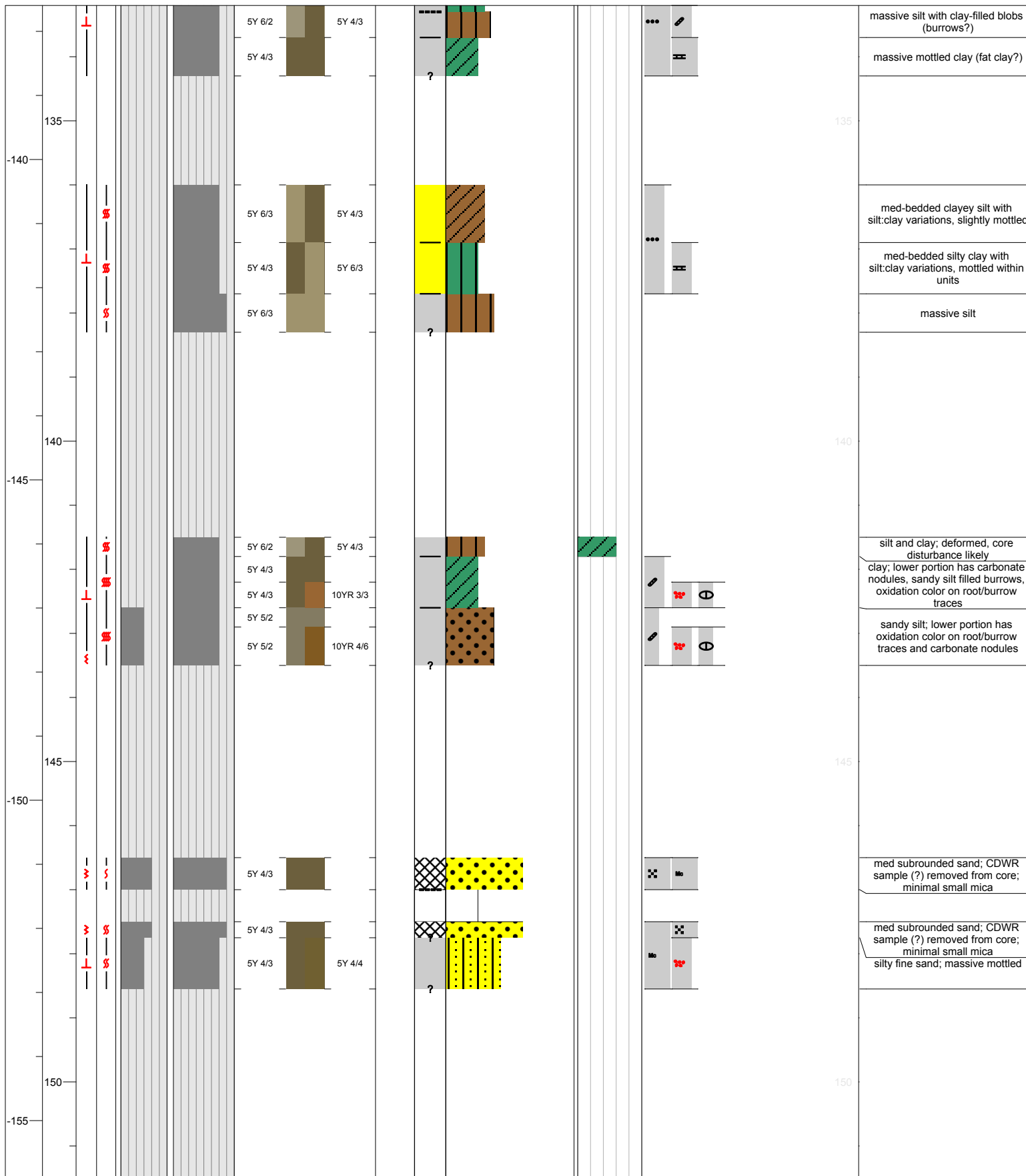
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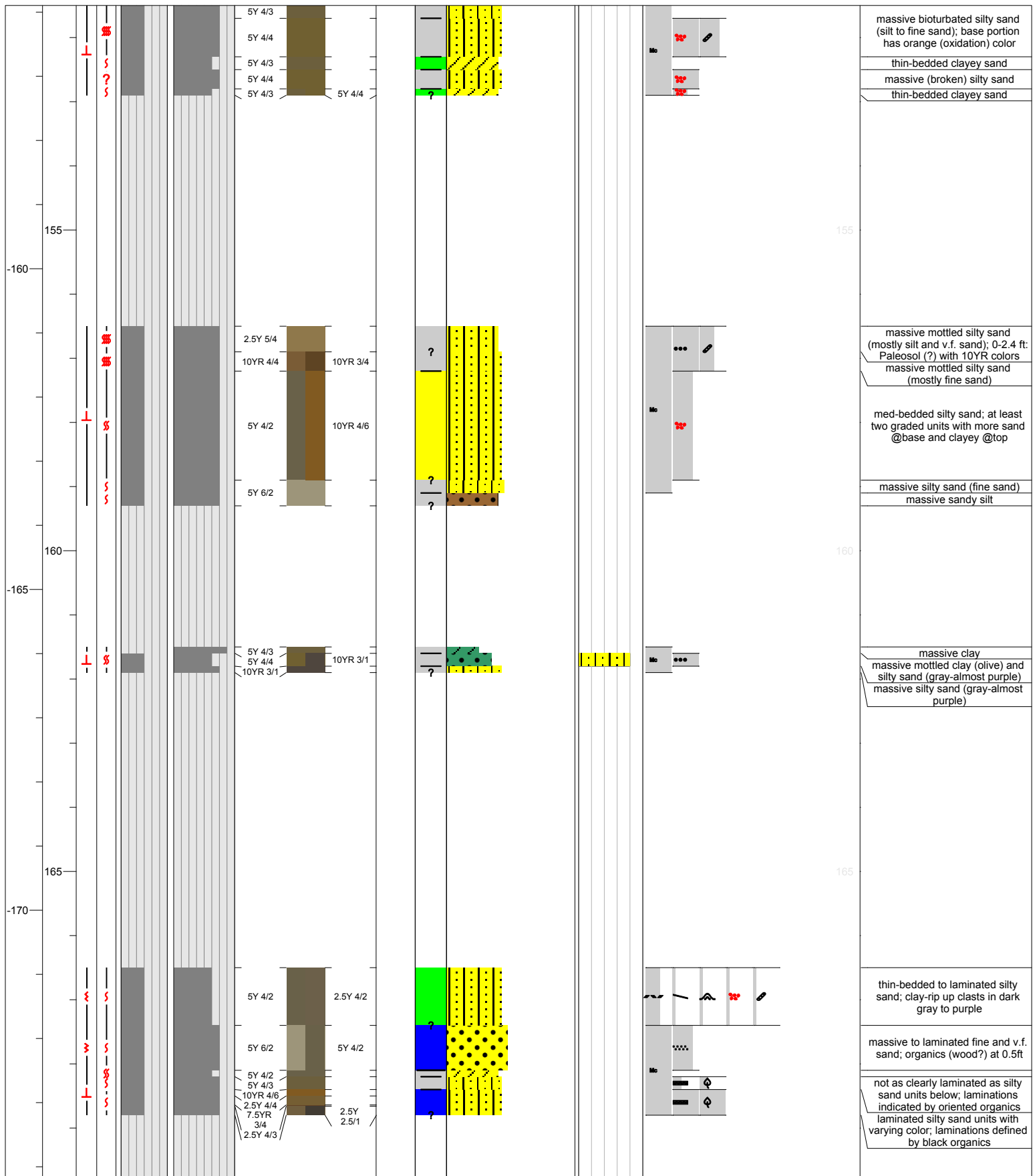
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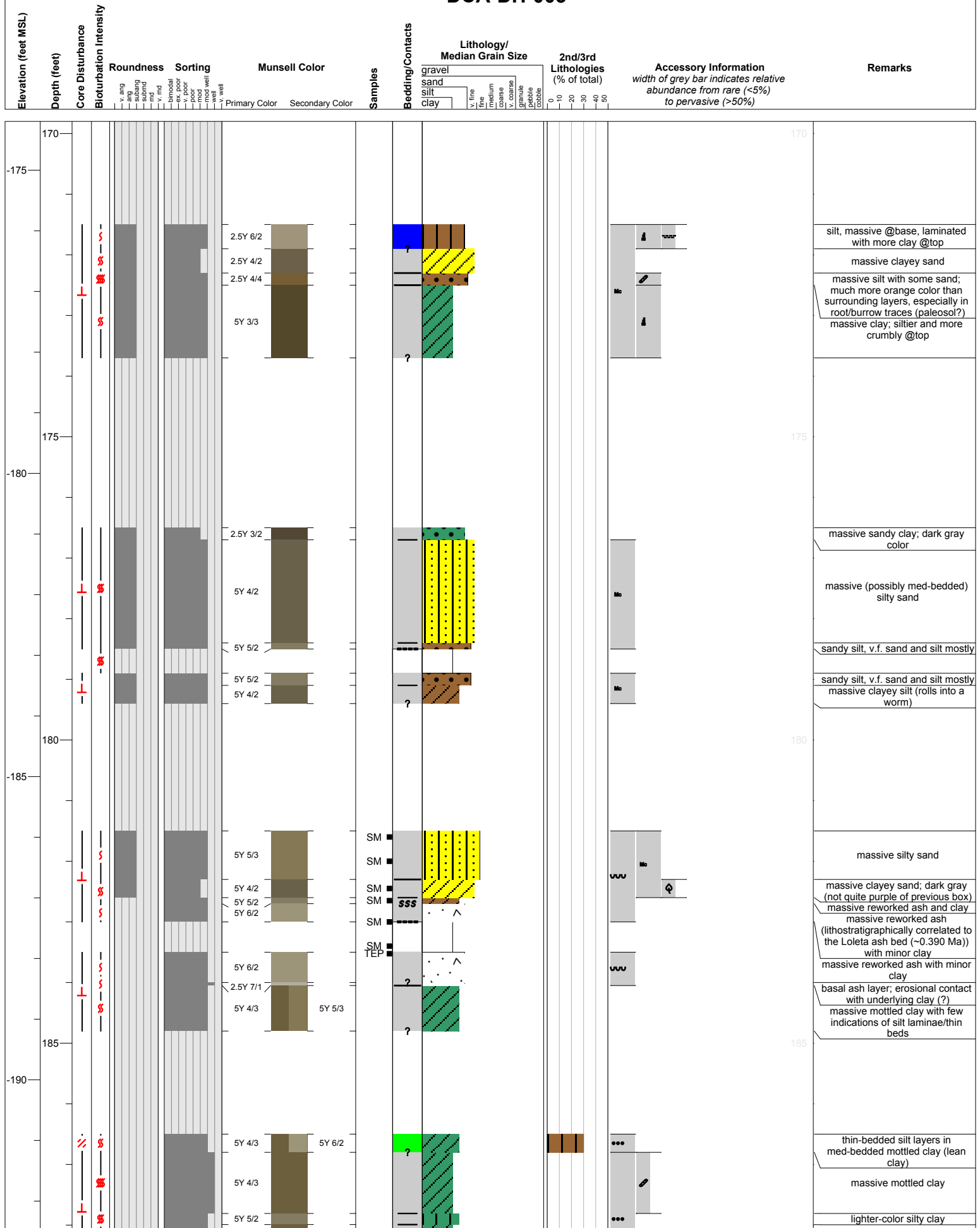
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang	ex. poor	Primary Color			gravel			
				ang	poor	Secondary Color			sand			
				subang	mod				silt			
				fine	poor				clay			
				md	mod				v. fine			
				v. md	well				fine			
				binodal	v. well				medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					fine			
				well					medium			
				v. well					coarse			
									fine			
									medium			
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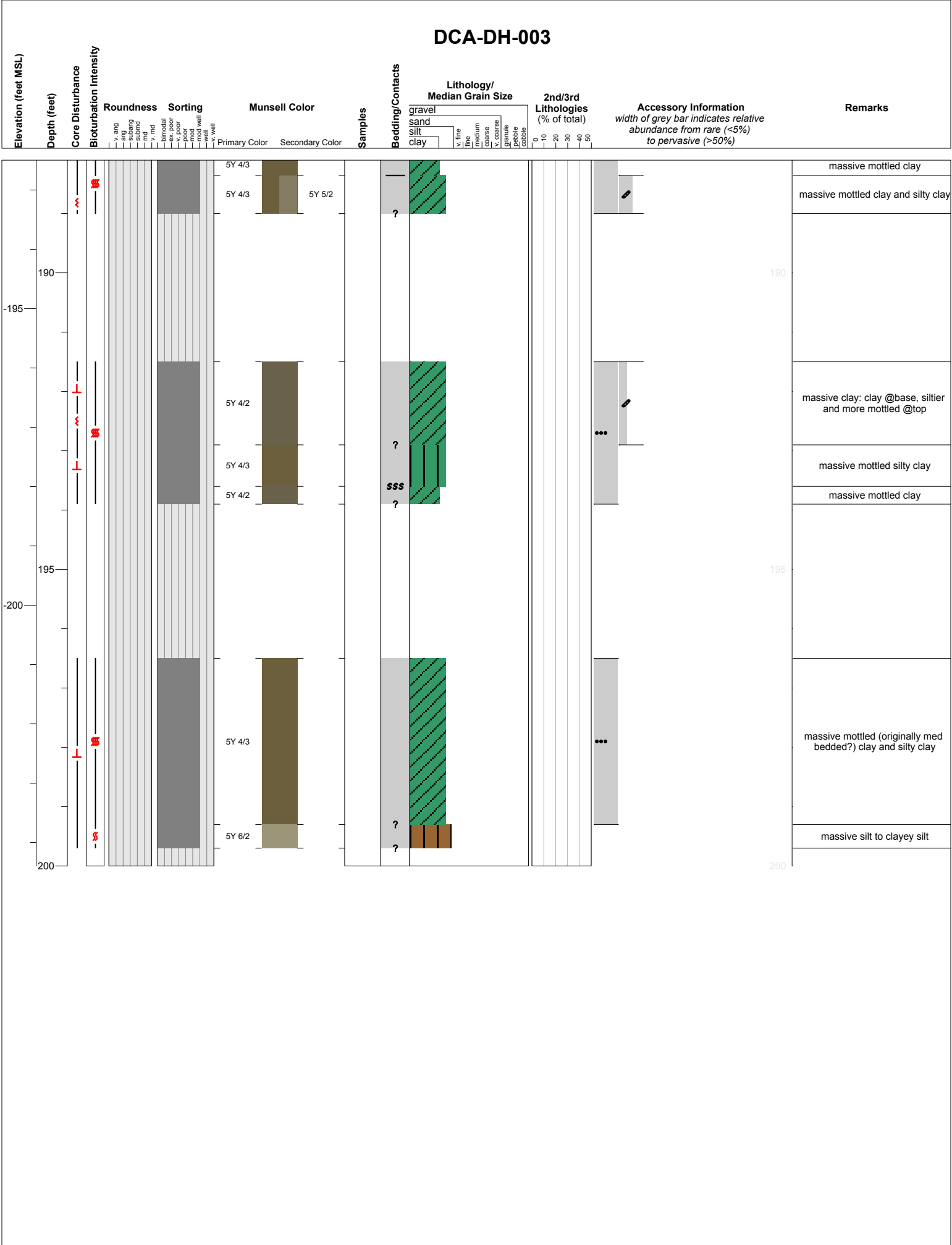
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
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				subang					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					gravel			
				well					fine gravel			
				v. well					coarse gravel			
									cobble			
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										10		
										20		
										30		
										40		
										50		



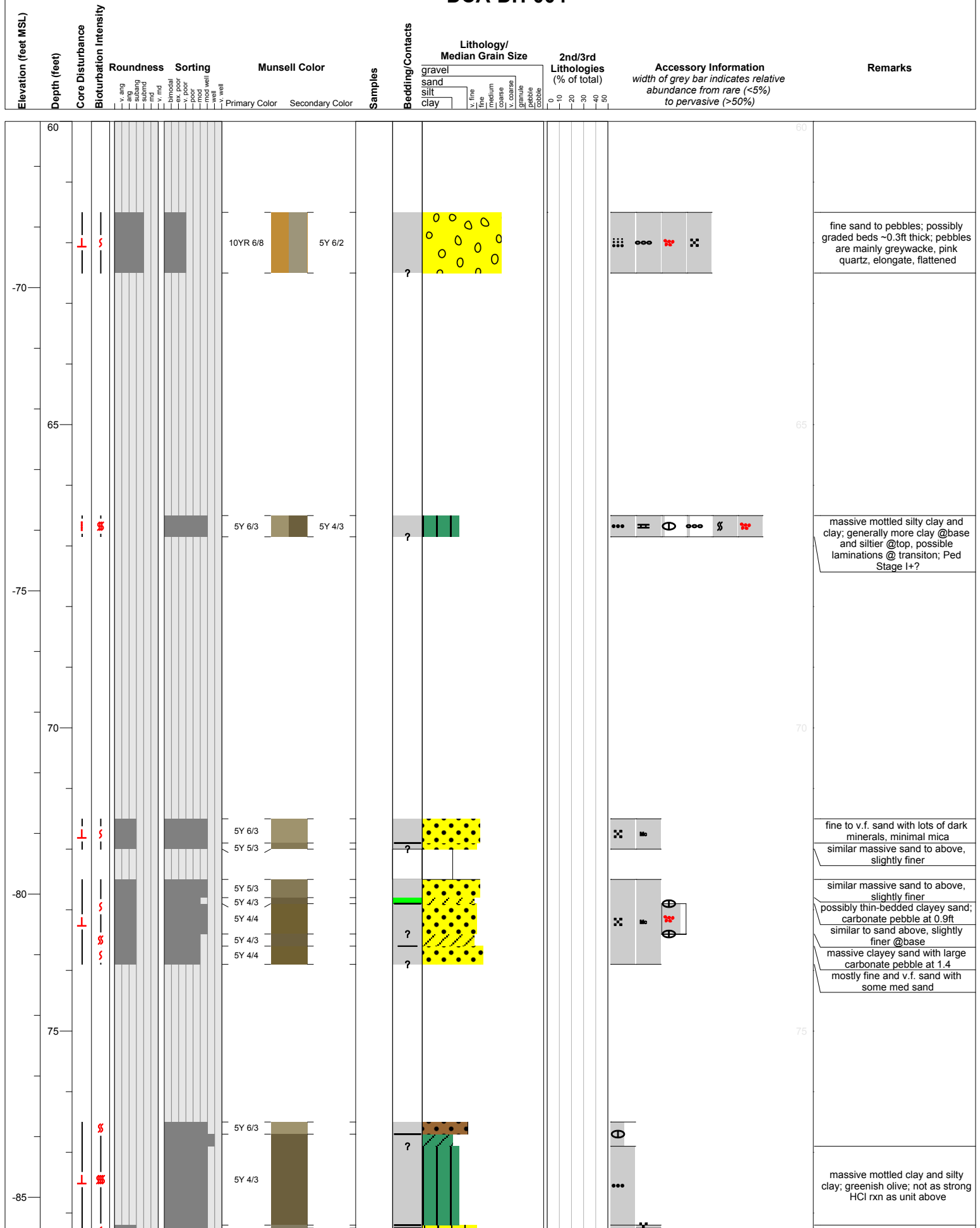
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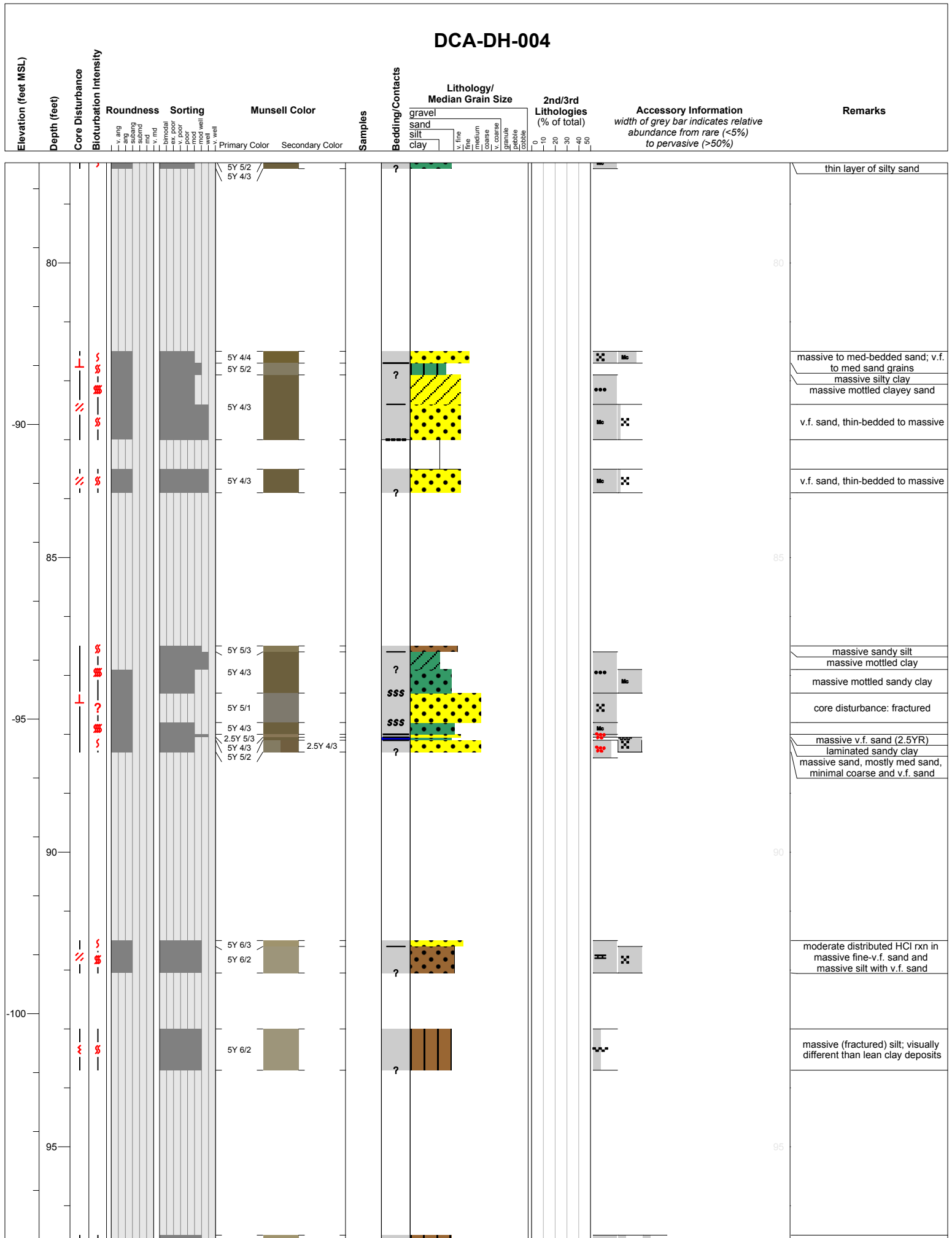
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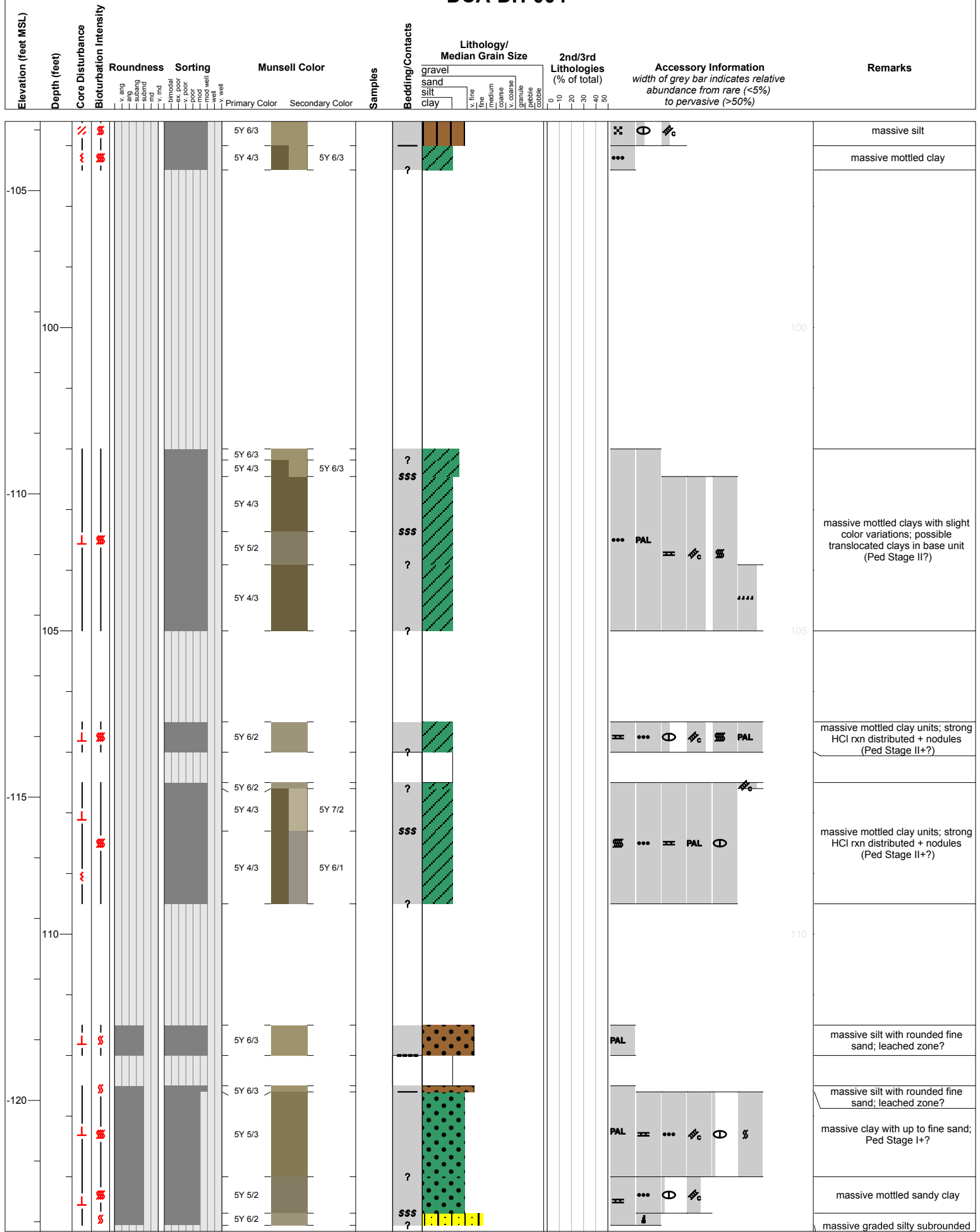
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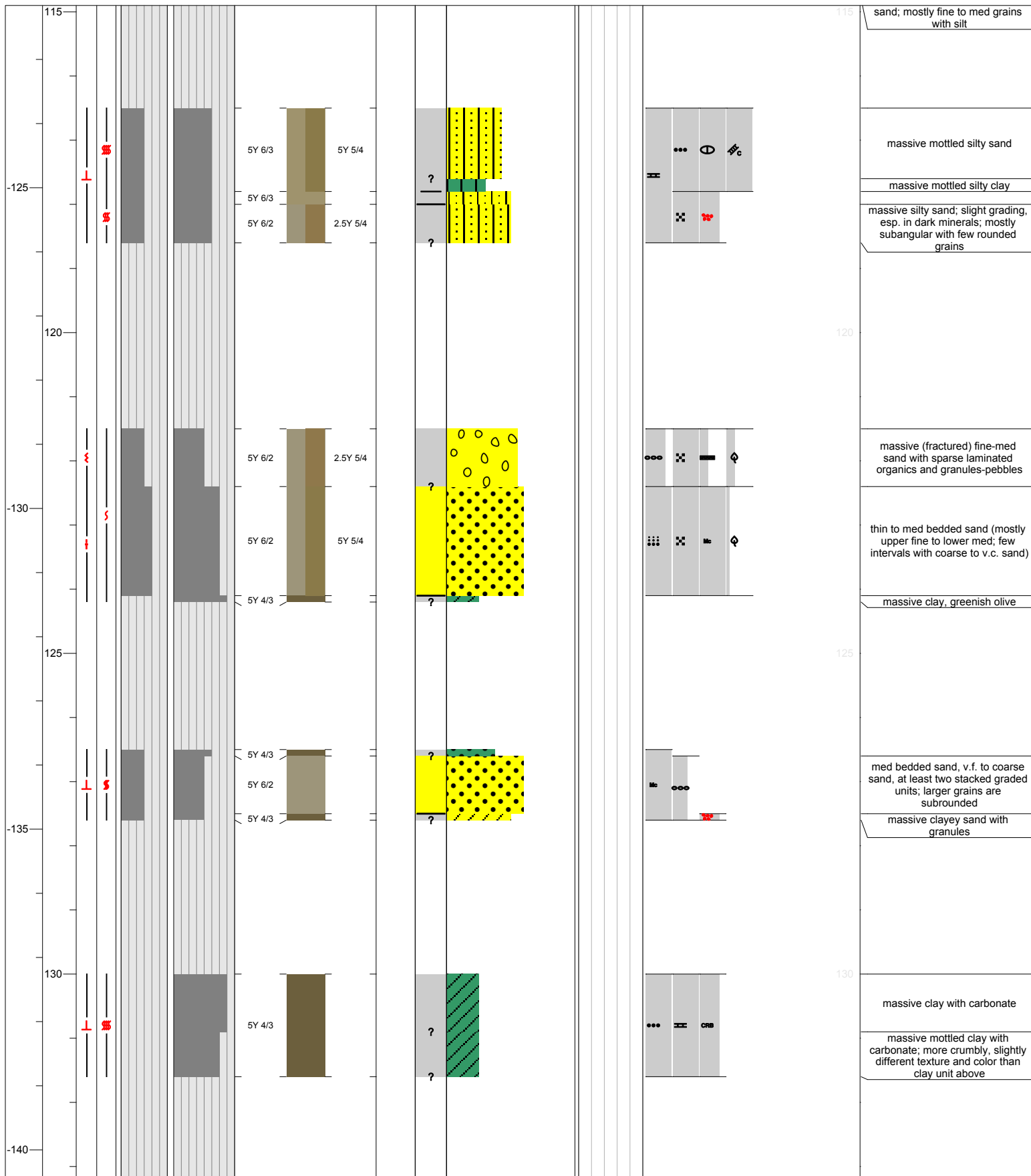
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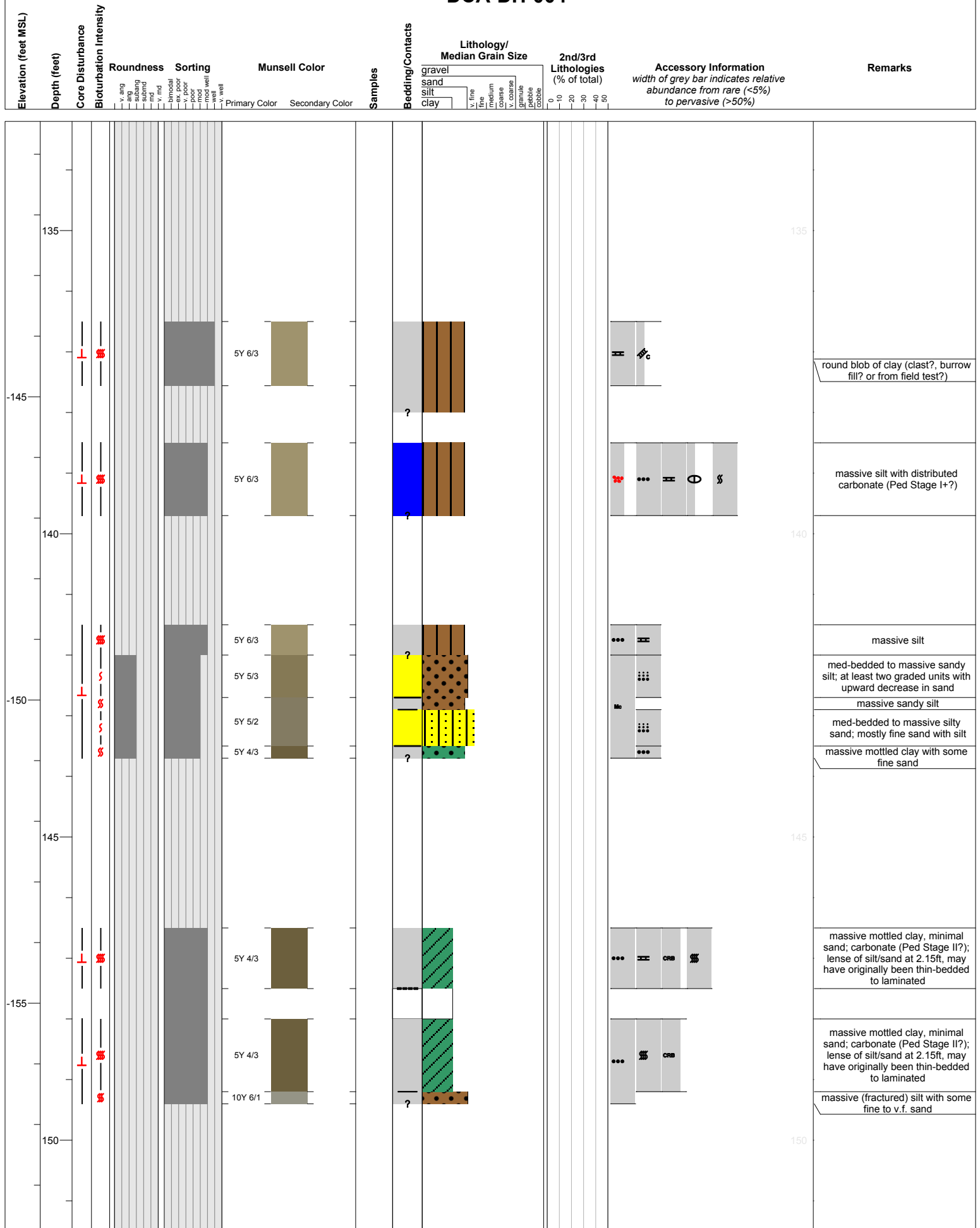
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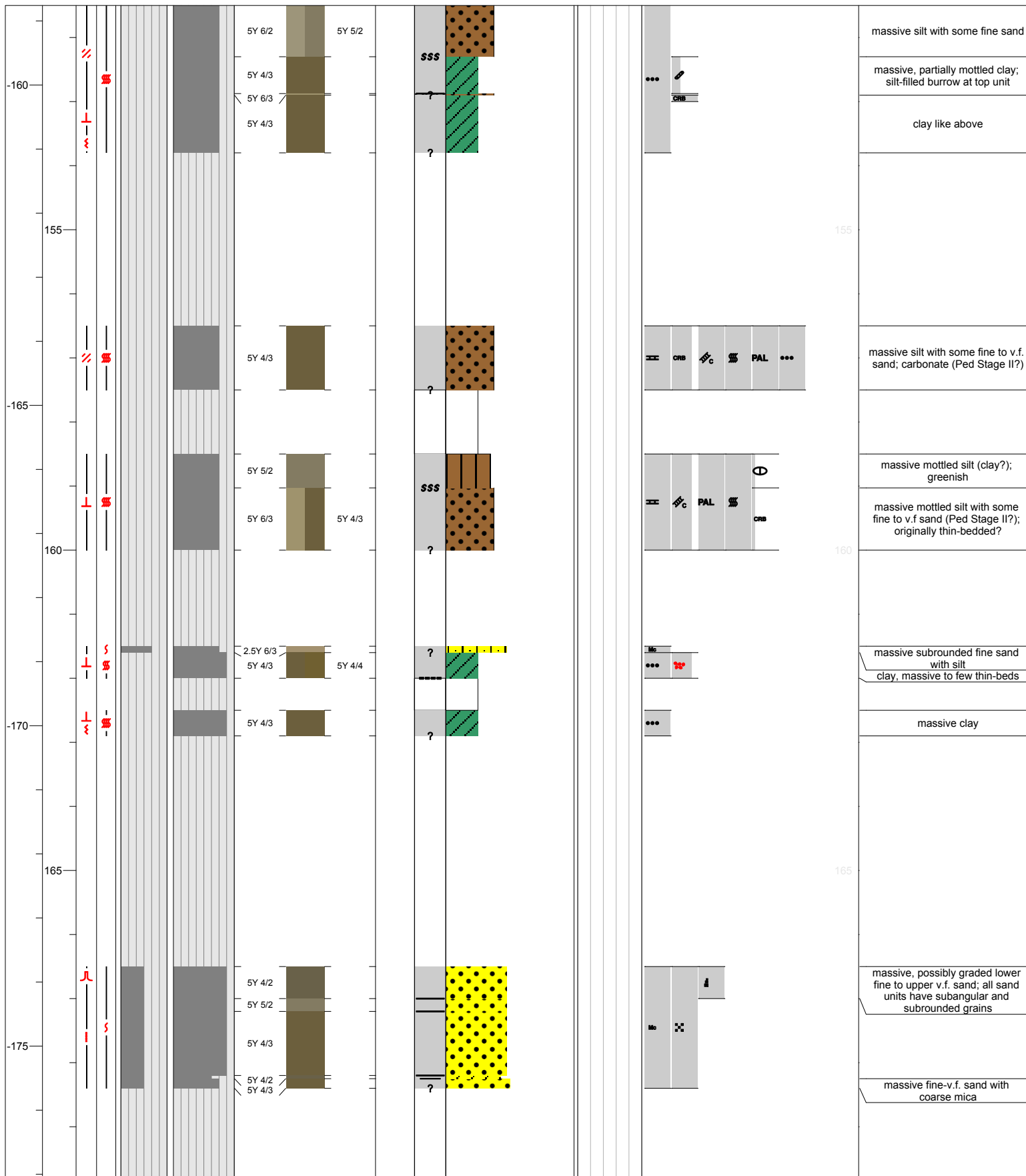
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				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine medium coarse	0 10 20 30 40 50		



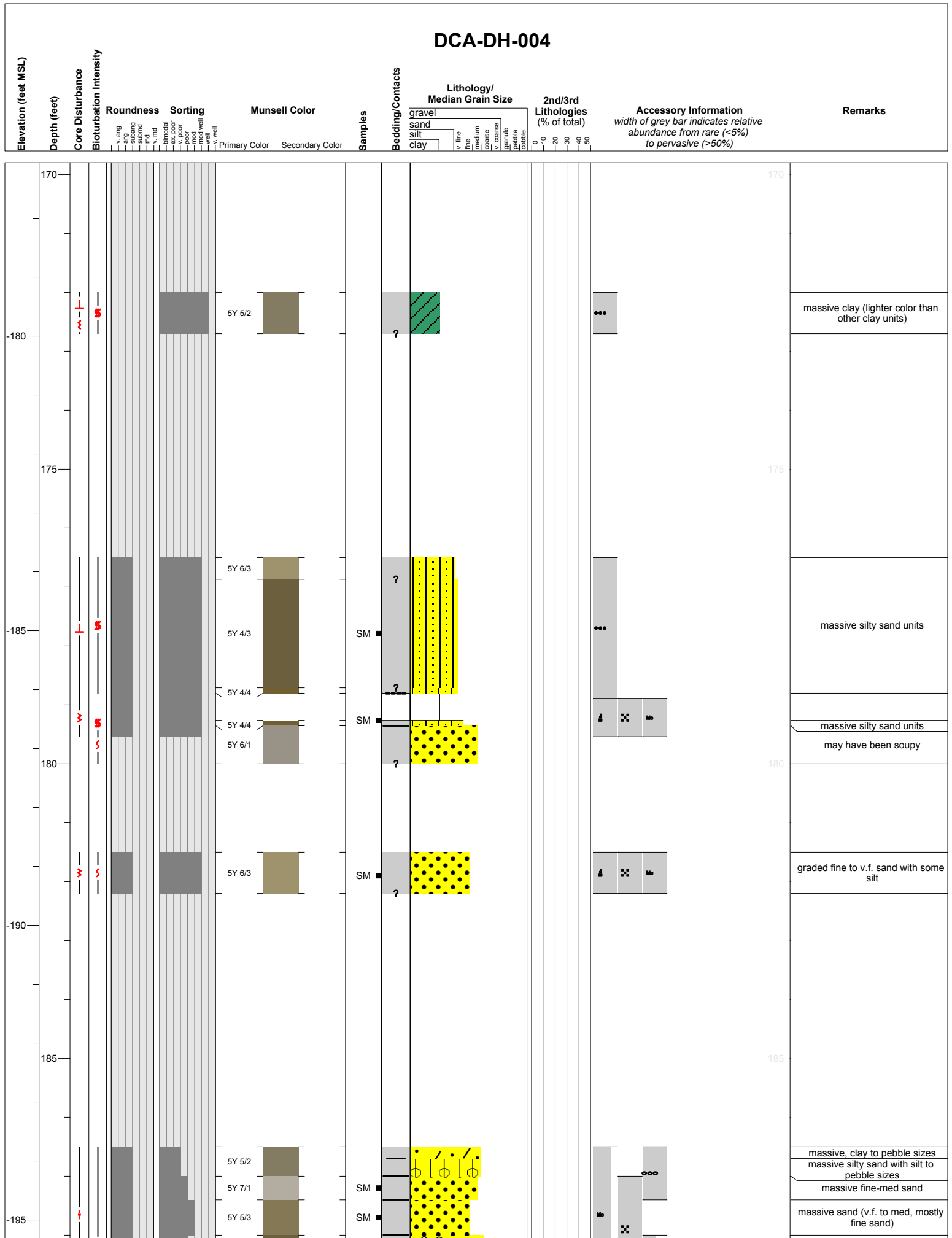
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DCA-DH-004												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine medium coarse	0 10 20 30 40 50		



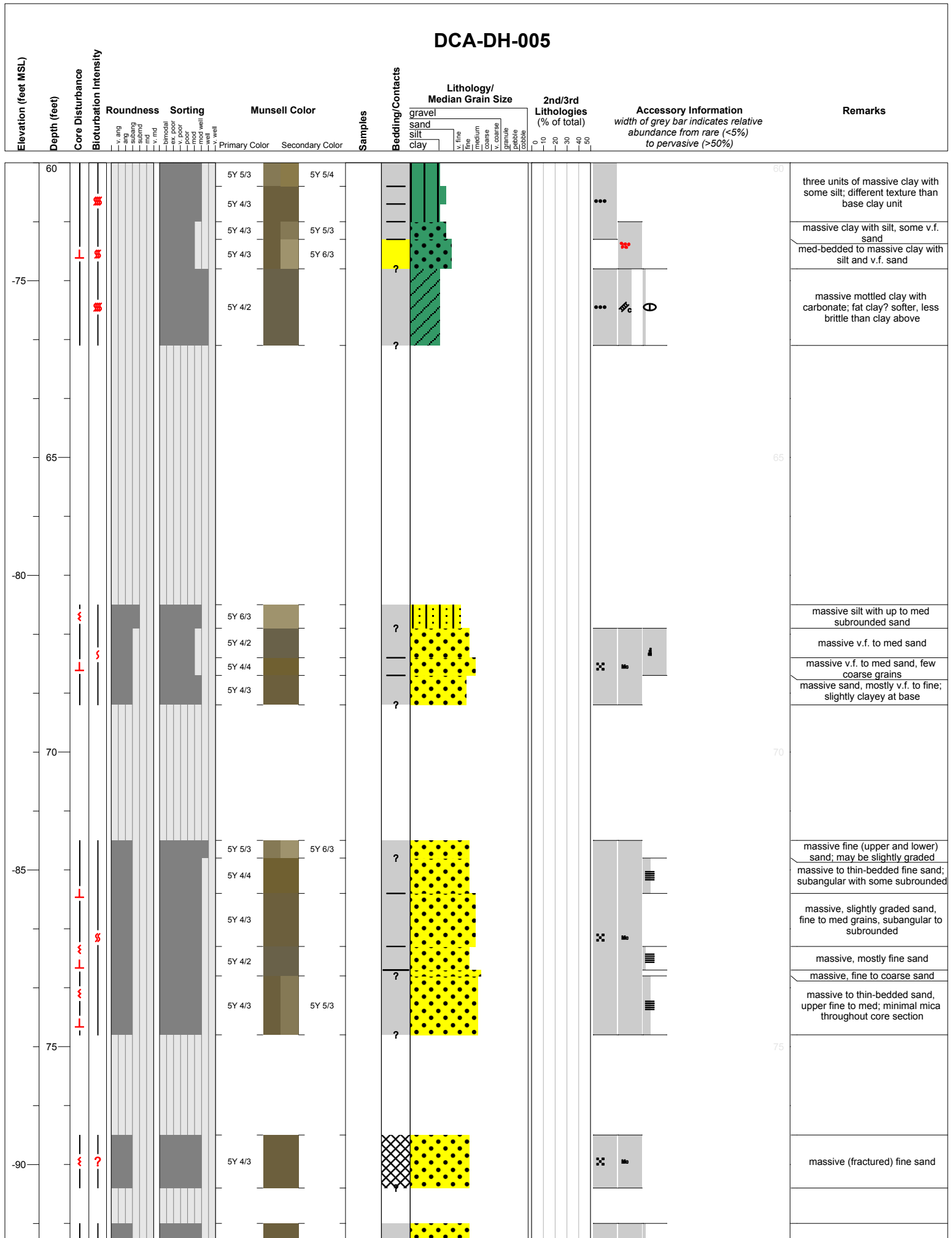
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DCA-DH-004

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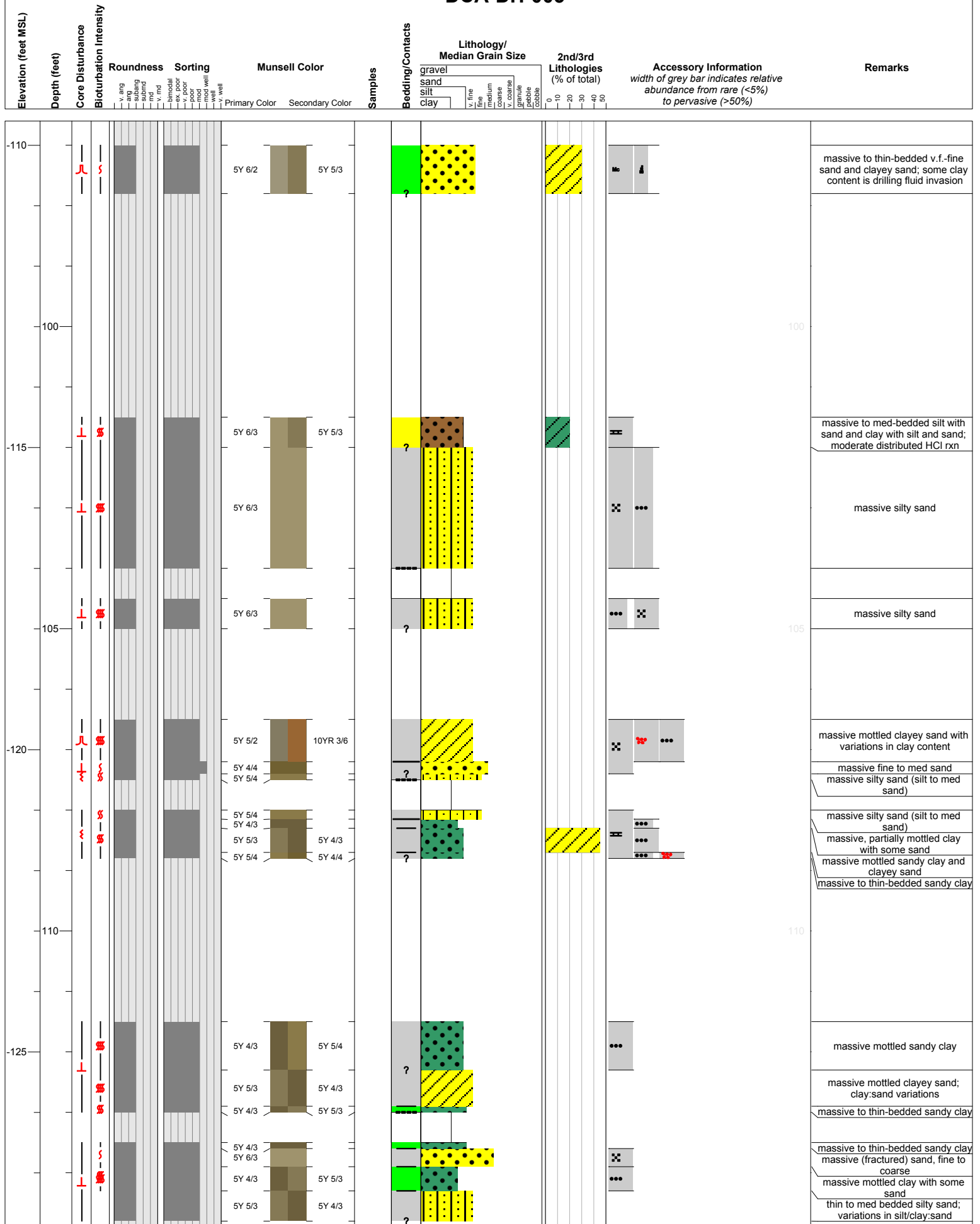
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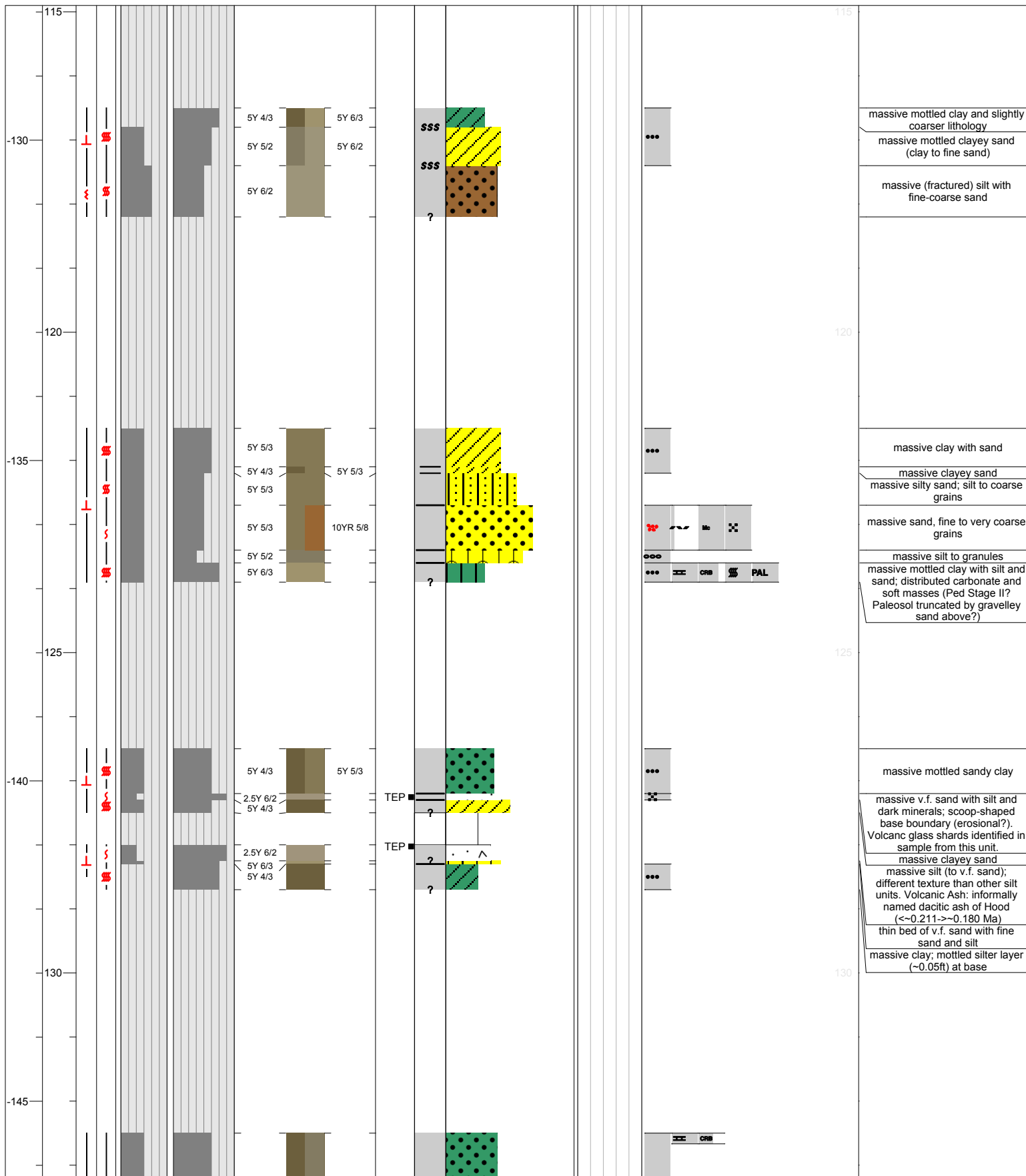
DCA-DH-005

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang. ang. subang. submed. v. med. bimodal	ex. poor v. poor mod. mod well well	Primary Color Secondary Color		gravel sand silt clay	v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
						5Y 4/3		?				massive fine to v.f. sand, slightly graded
-95						5Y 4/2 5Y 5/3		= ?				massive sand, graded from coarse to fine
												massive graded sand, slightly finer base than unit above
												massive to thin-bedded fine to med sand
-100						5Y 7/2 5Y 4/3		? - - -				massive fine to med sand
						5Y 4/3 5Y 4/4		- - -				massive, mostly med sand, granules @base; some subrounded grains
						5Y 4/3		- - -				massive, mostly med sand, granules @base; some subrounded grains
								- - -				massive sandy clay
								- - -				med-bedded stacked graded sand; large granules to fine grains, some clay
								- - -				massive sand (fine sand to granules), subangular to subrounded
-105						5Y 4/3 2.5Y 5/6		=				med-bedded sand with clay units (0.1ft), may be clay clasts; granules in base half unit
						5Y 4/3		=				massive clayey sand
								=				massive fine-med sand
								=				med-bedded, graded units: fine sand with med grains @base to clayey fine-v.f. sand @top

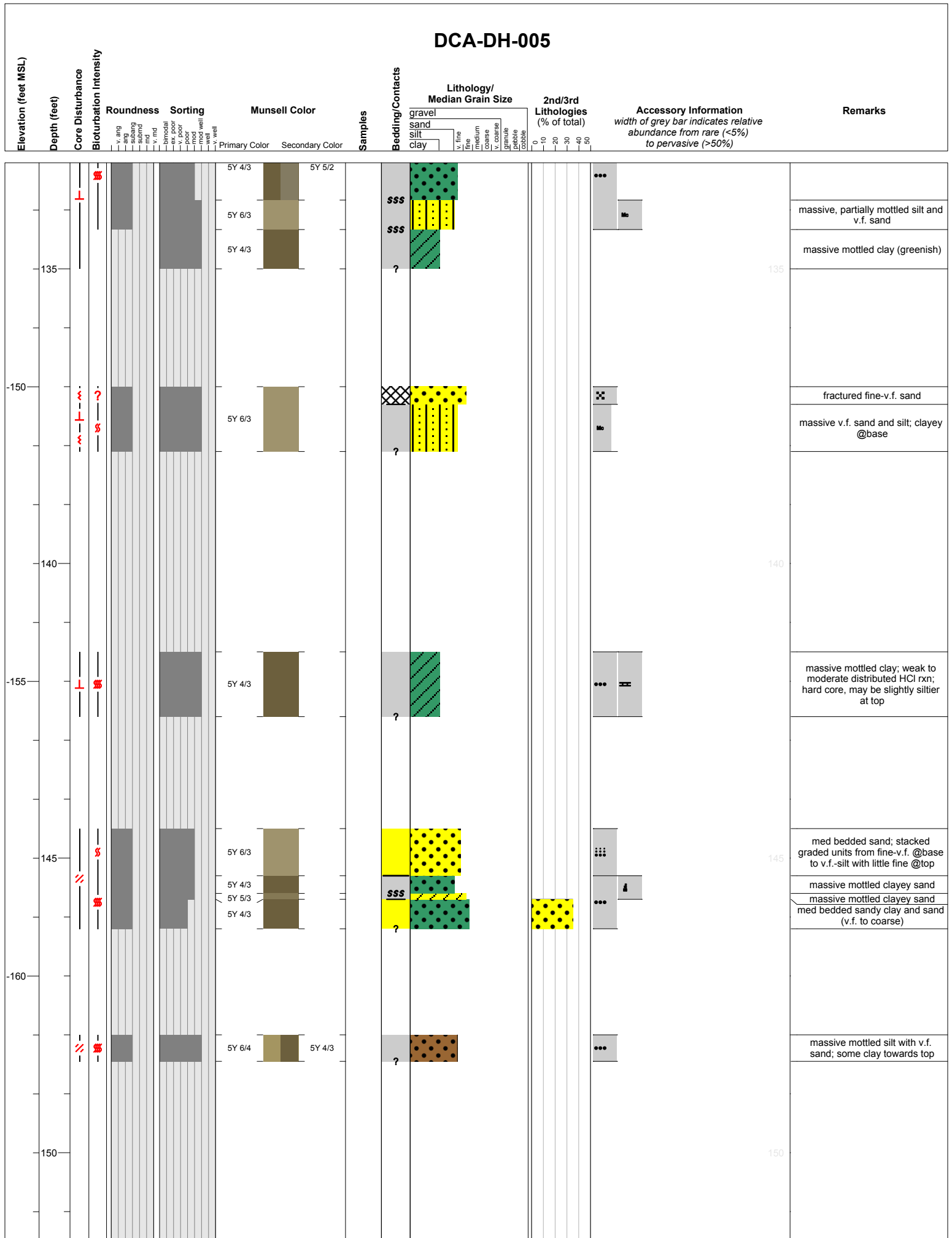
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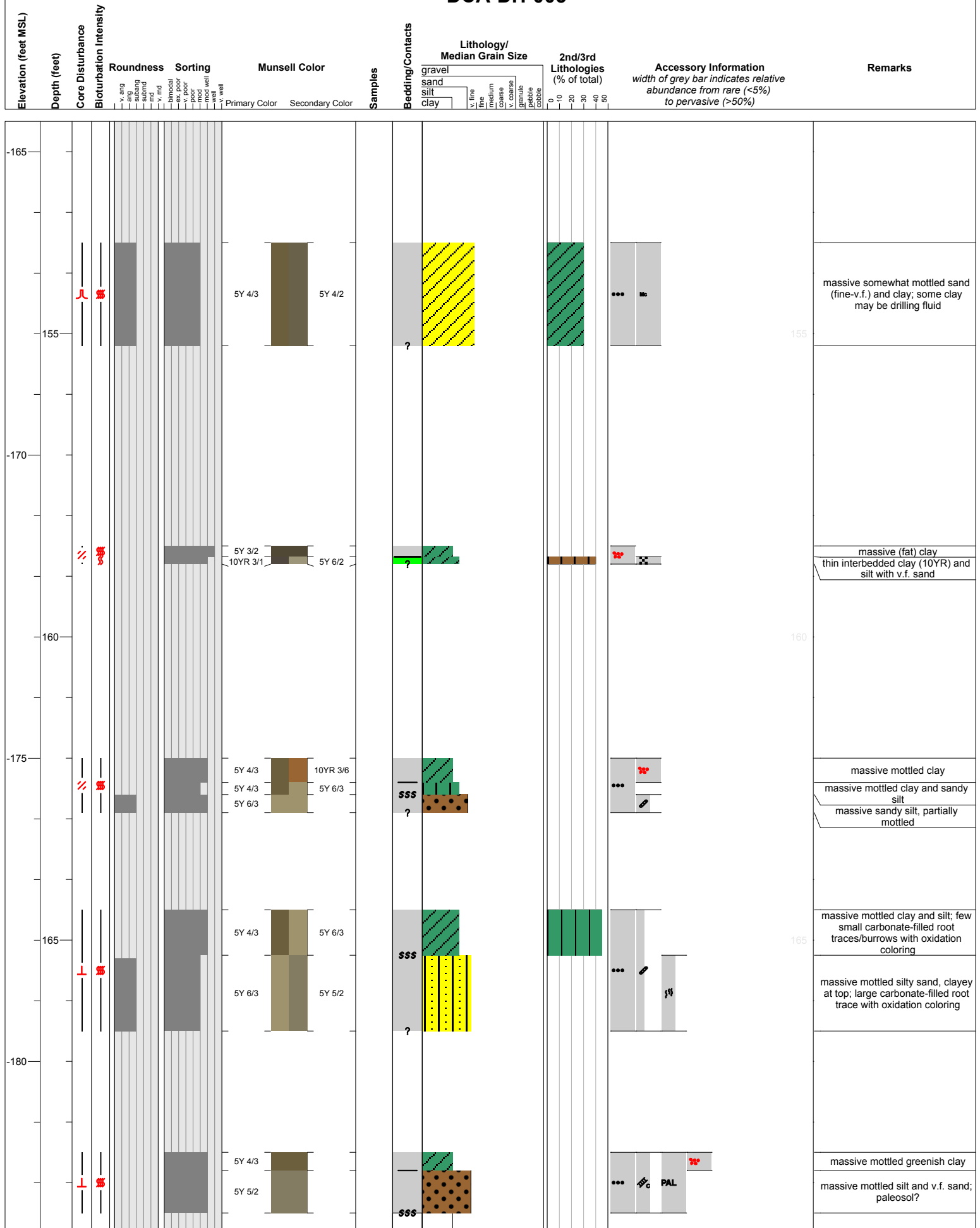
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble		



DCA-DH-005



DCA-DH-005



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Rou

Sorting

Munsell Color

Primary Color Secondary Color

Samples

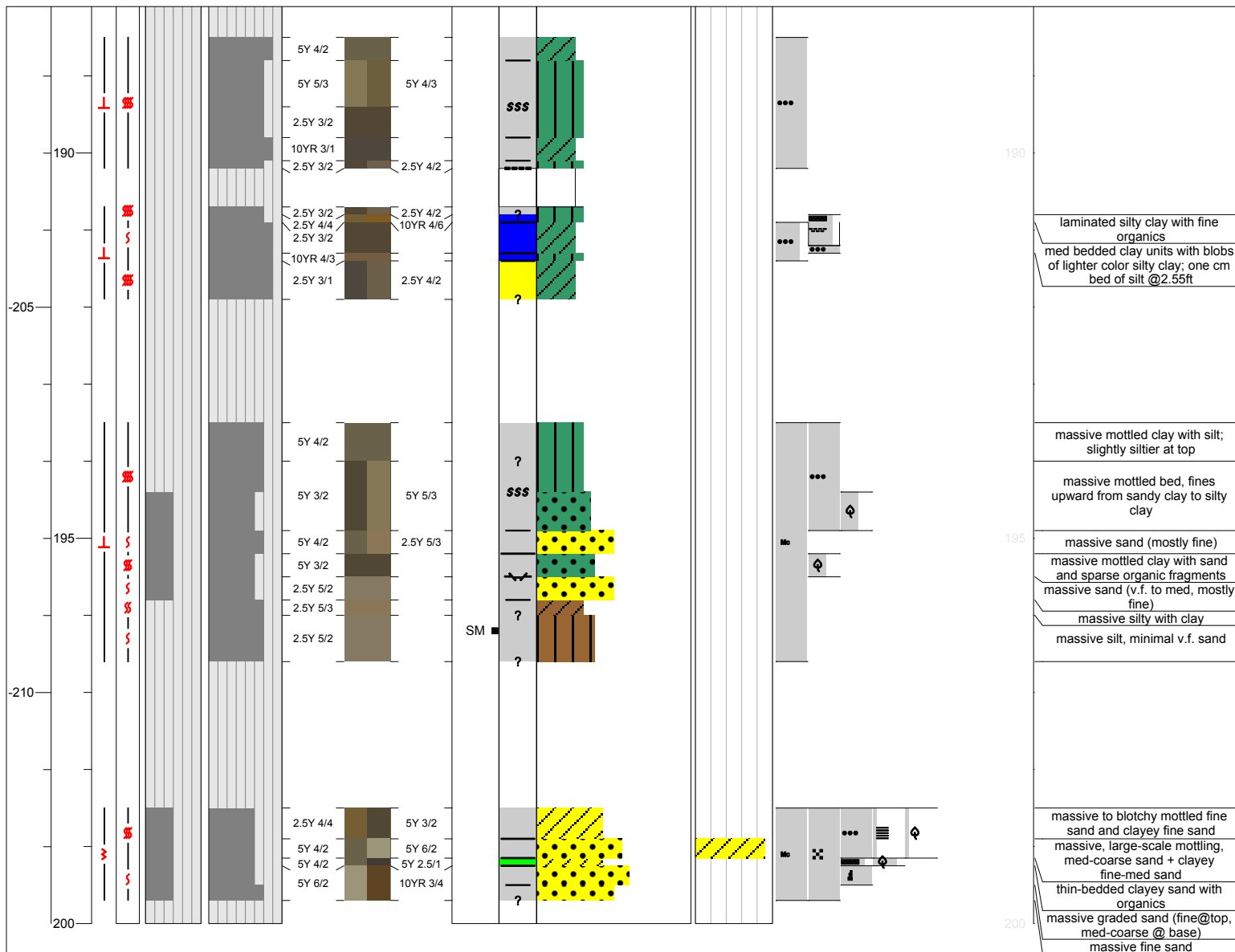
Bedding/Contacts

Lithology/
Median Grain Size

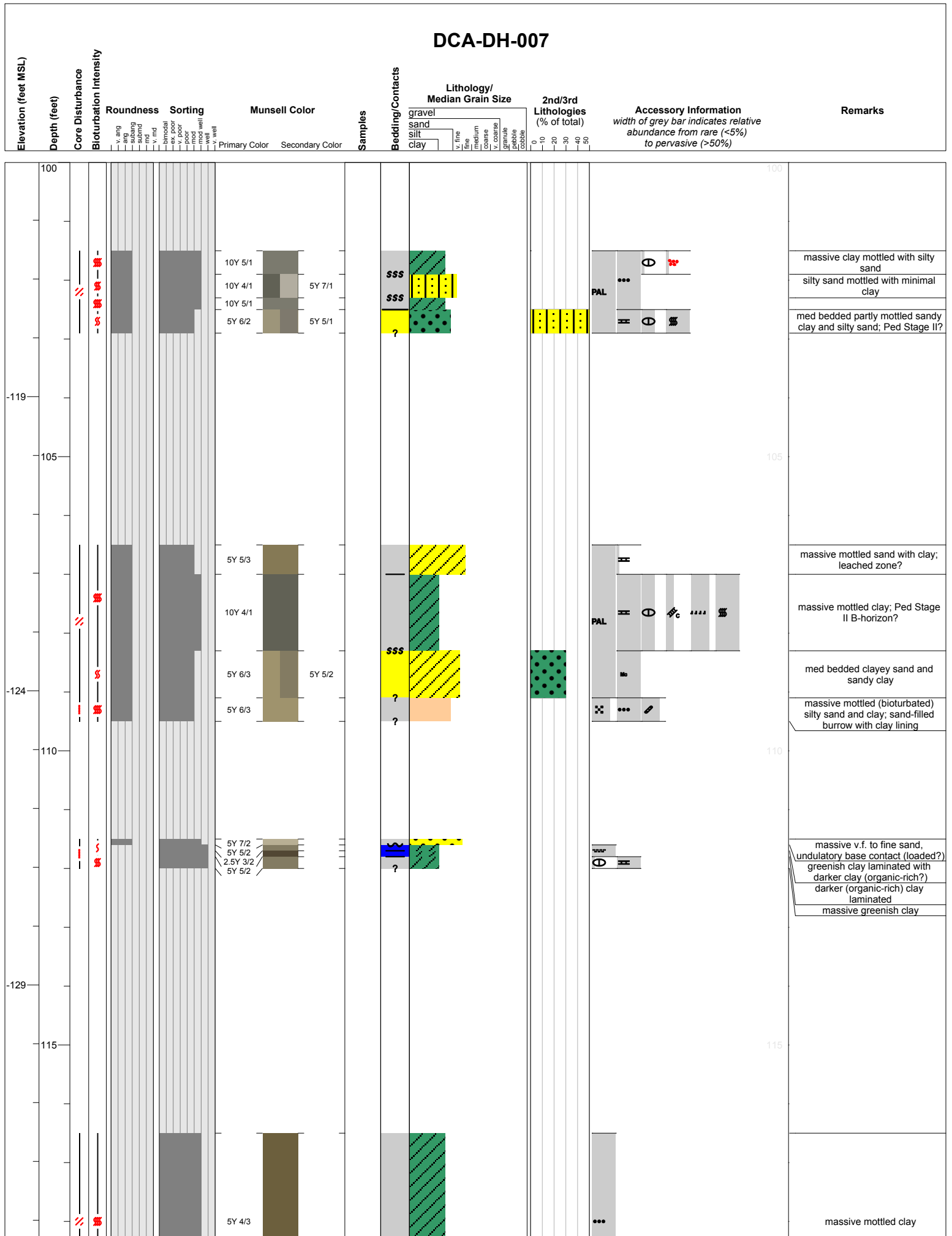
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

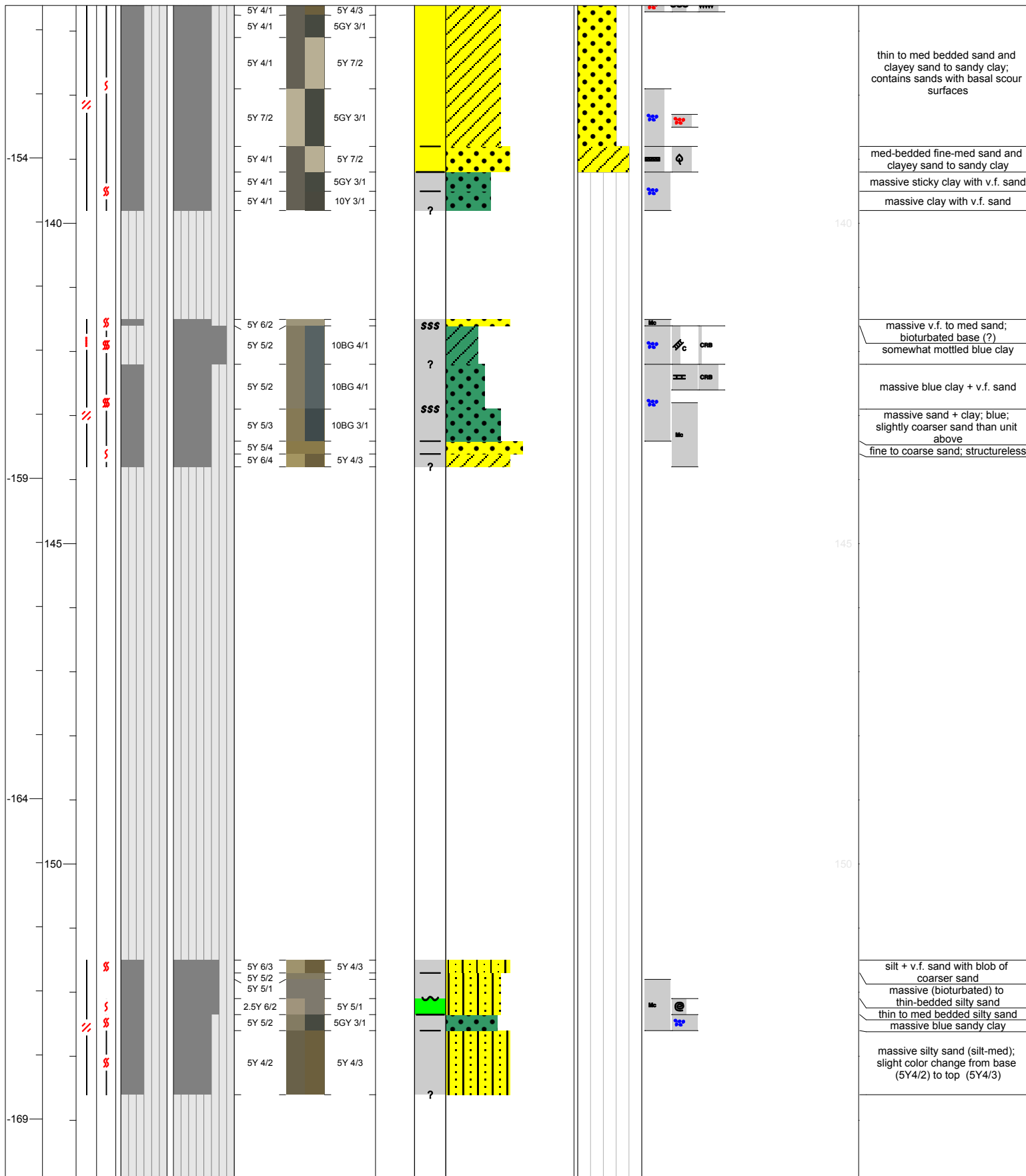
Remarks



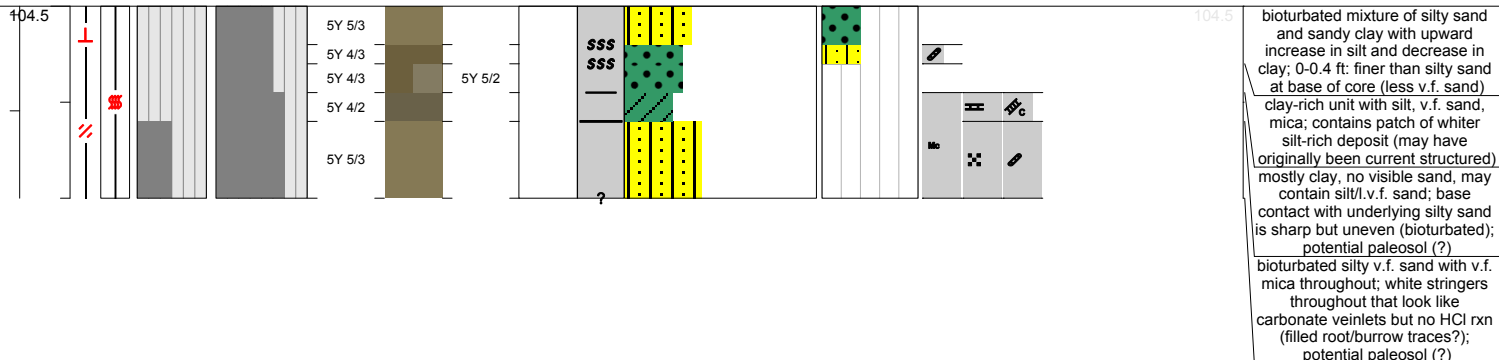
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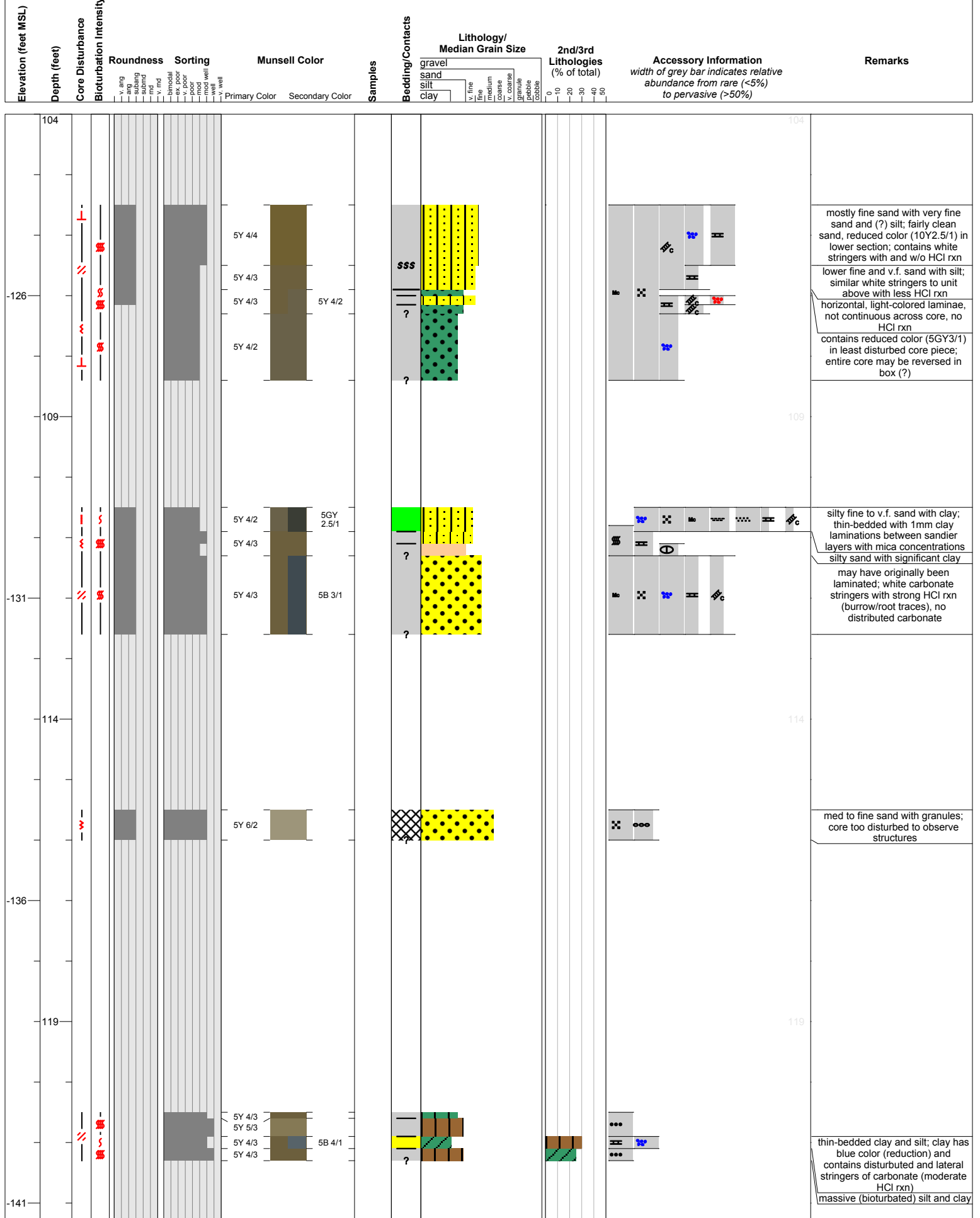
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang.		Primary Color			gravel		
				ang.		Secondary Color			sand		
				subang.					silt		
				fine md.					clay		
				v. md.					v. fine		
				bimodal					fine		
				ex. poor					medium		
				poor					coarse		
				mod. poor					v. coarse		
				well					granule		
				v. well					pebble		
									cobble		
									0		
									10		
									20		
									30		
									40		
									50		



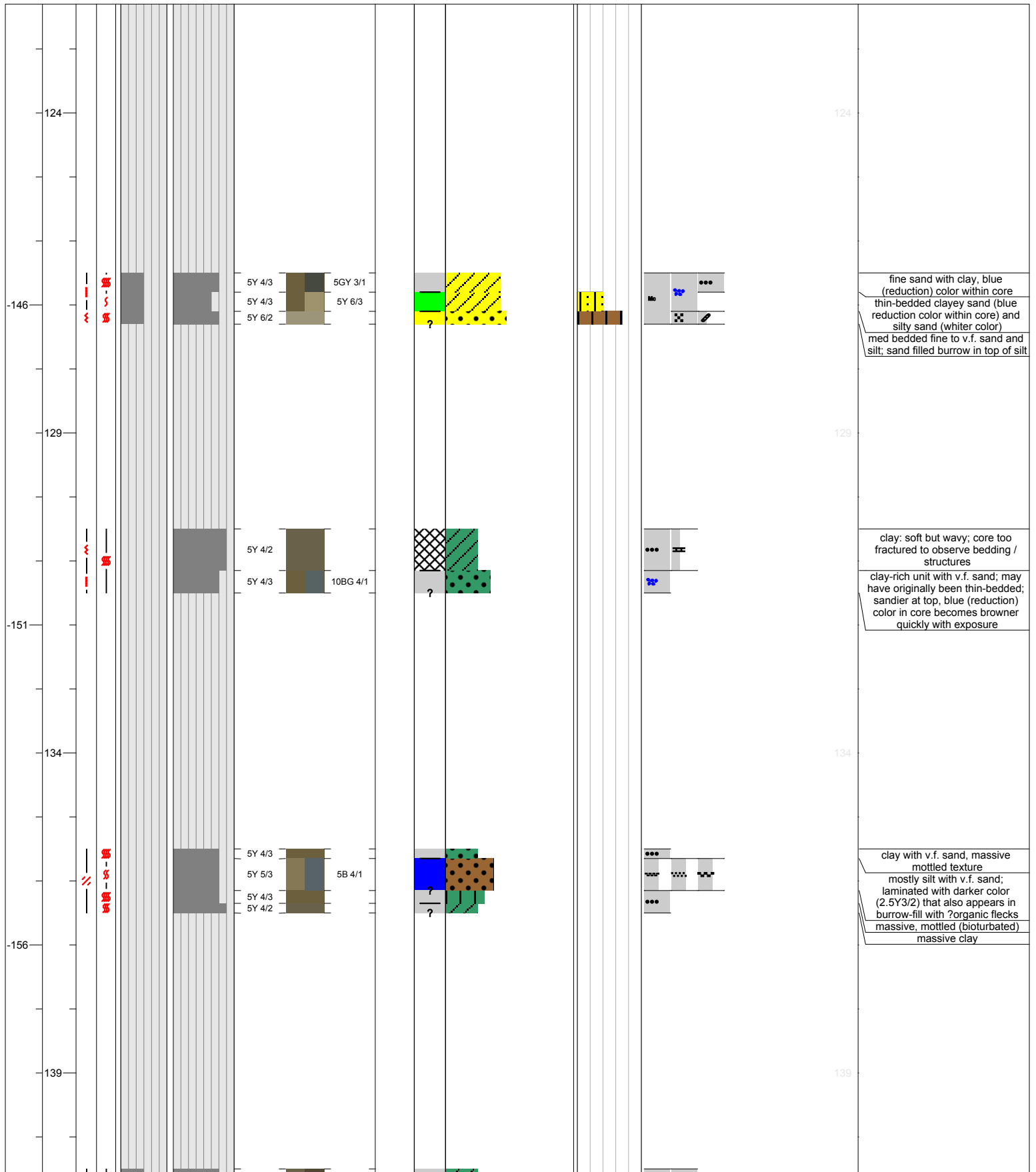
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				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine silt clay cobble	0 10 20 30 40 50		



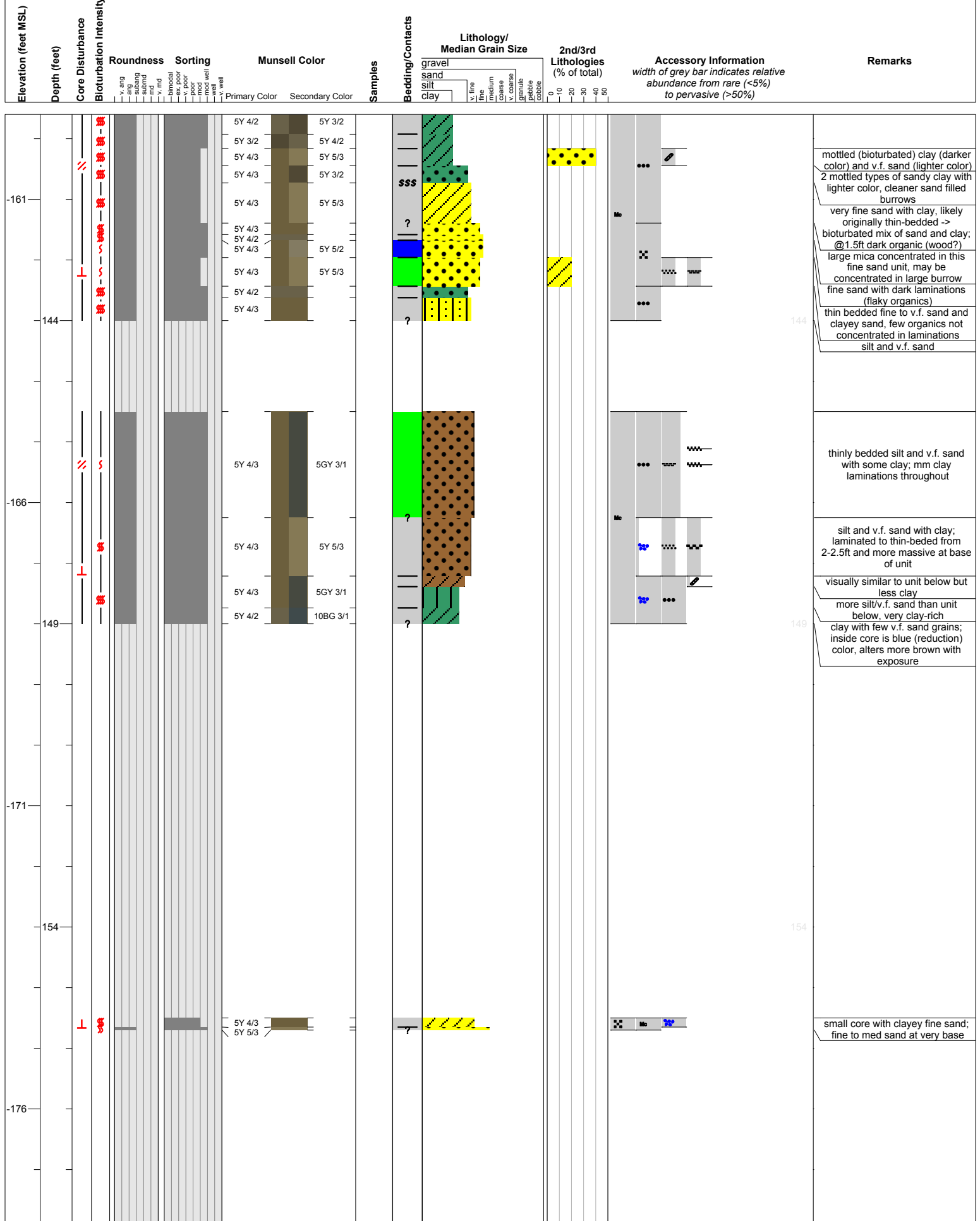
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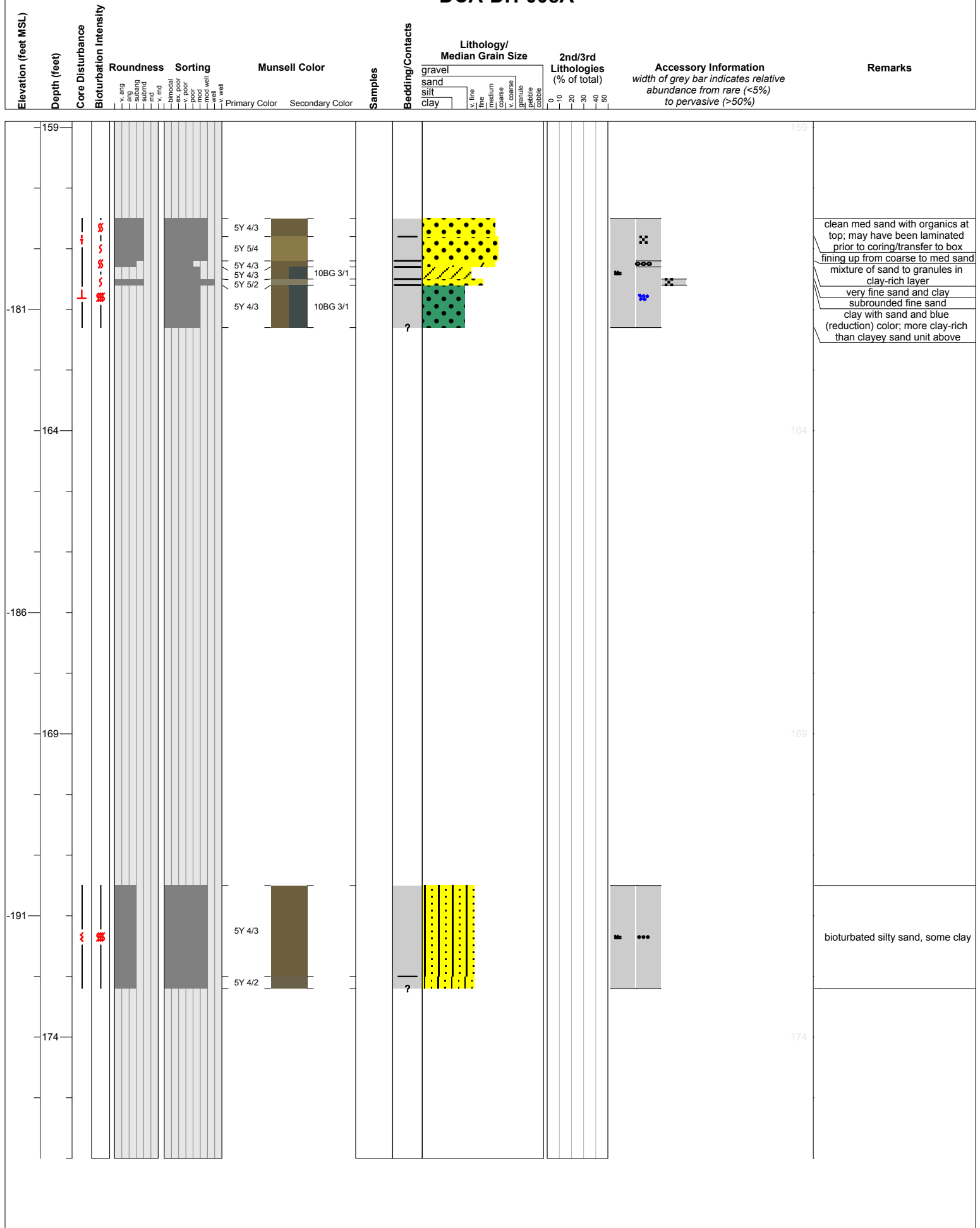
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang ind v. ind bimodal ex. poor poor mod well v. well		Primary Color Secondary Color		gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		



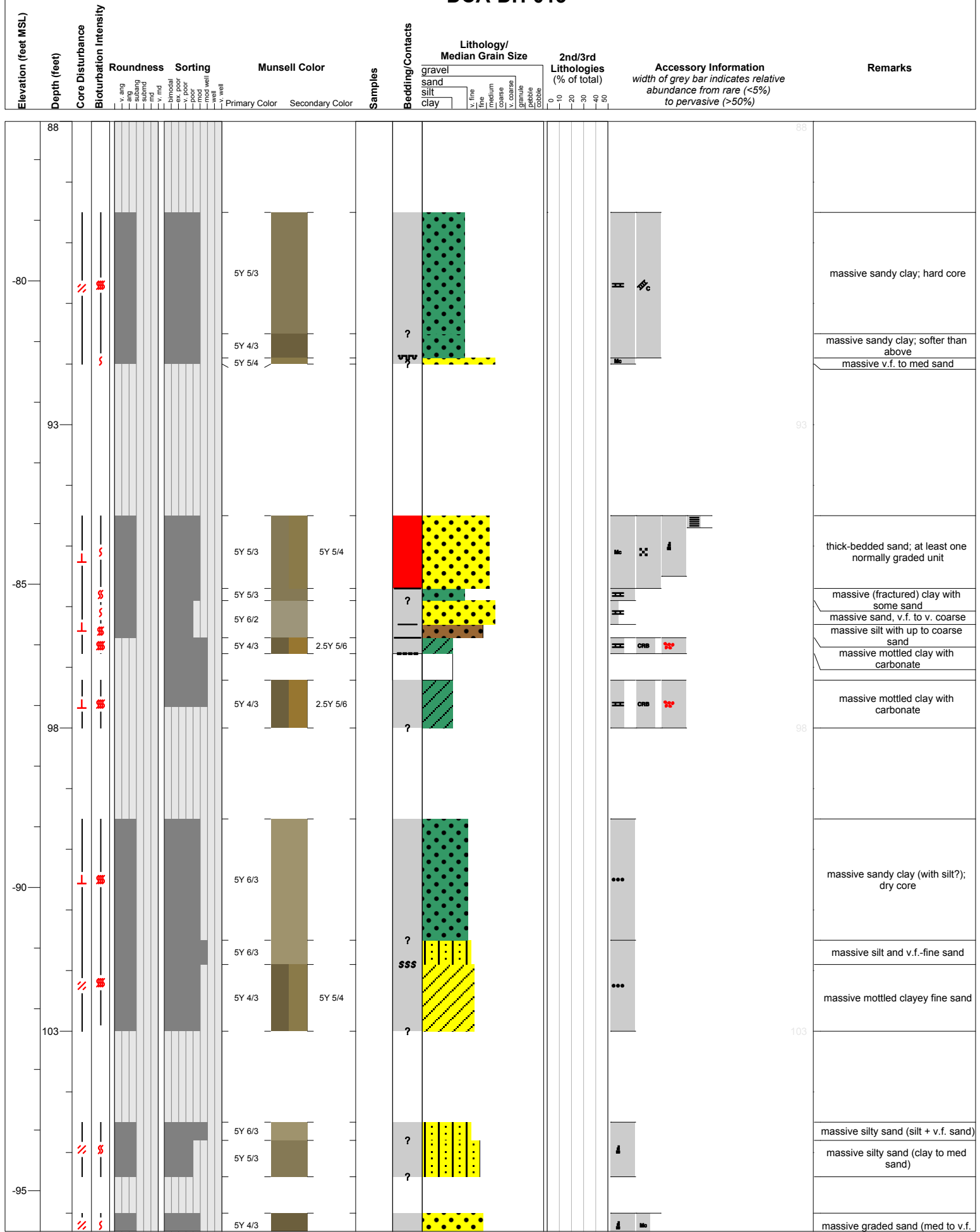
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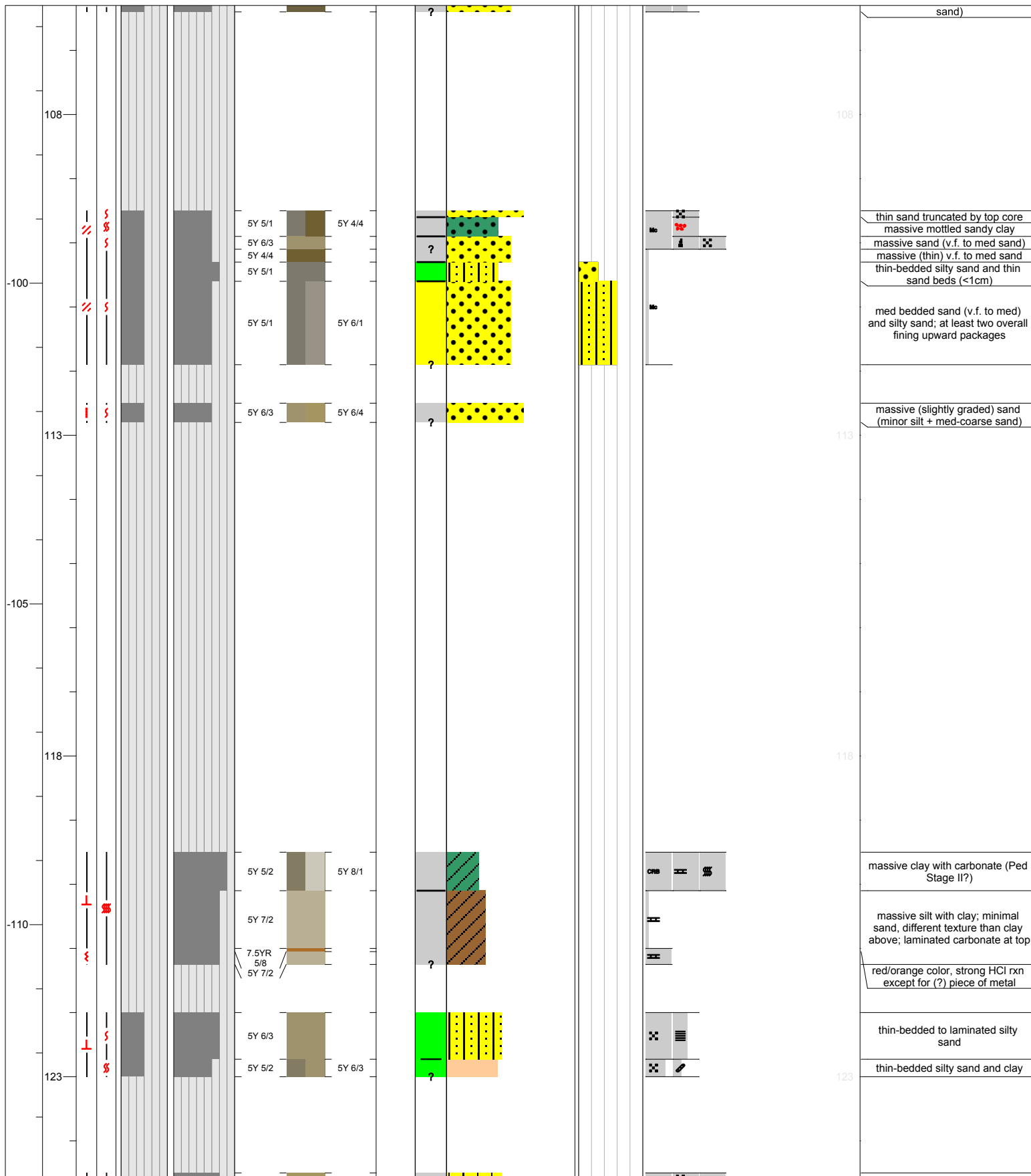
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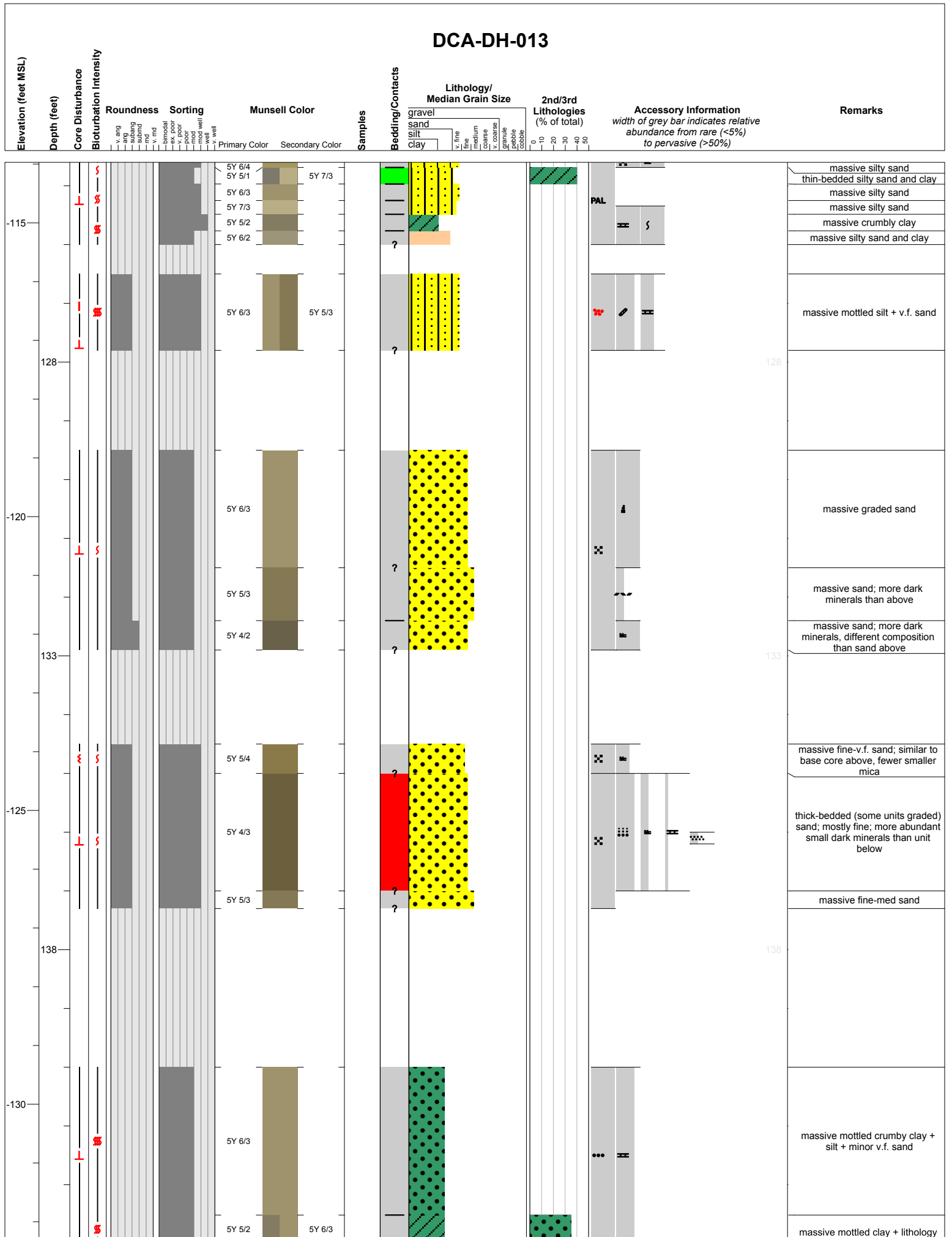
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang mud v. md bimodal ex. poor poor poor mod mod well v. well							gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		



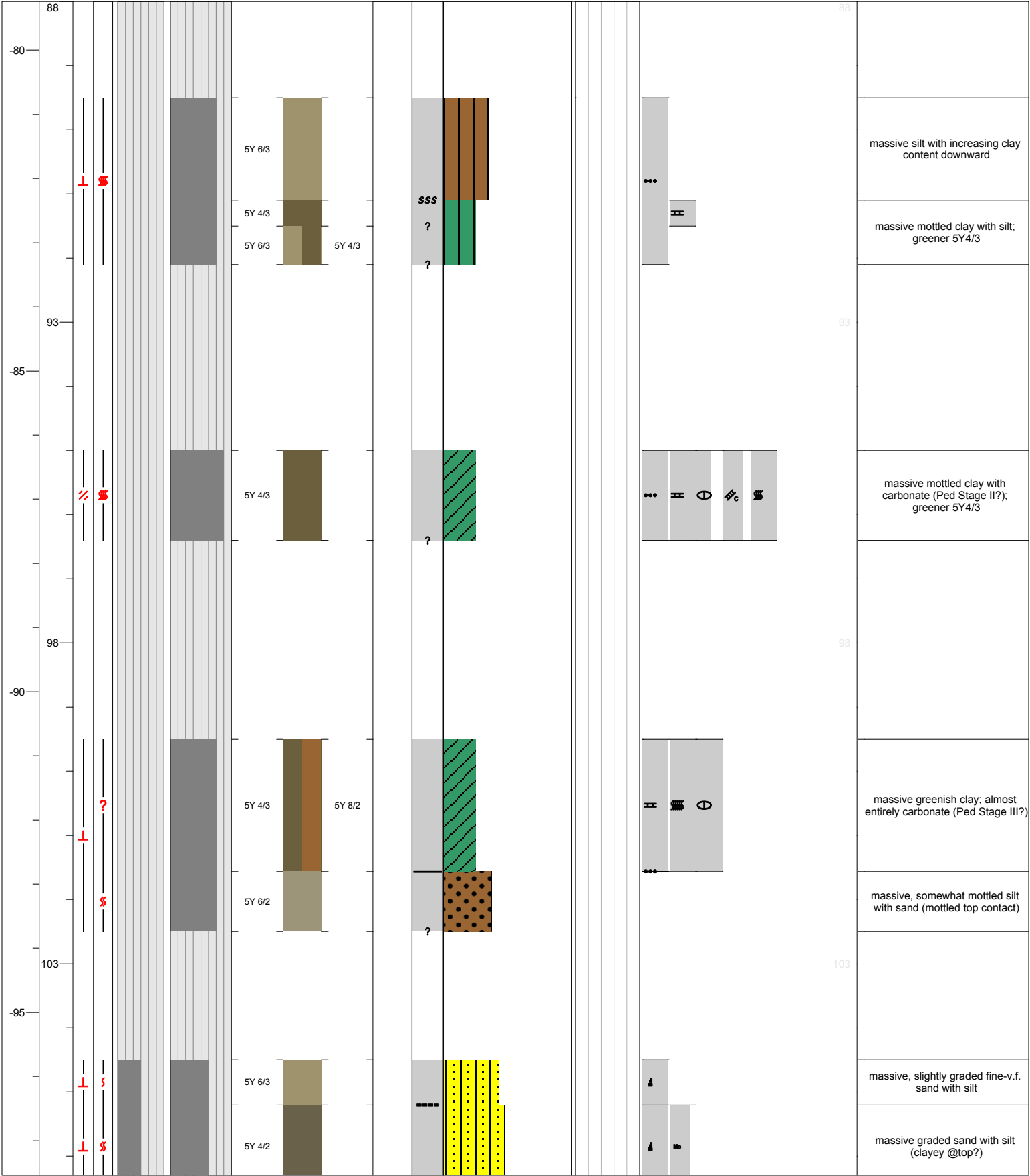
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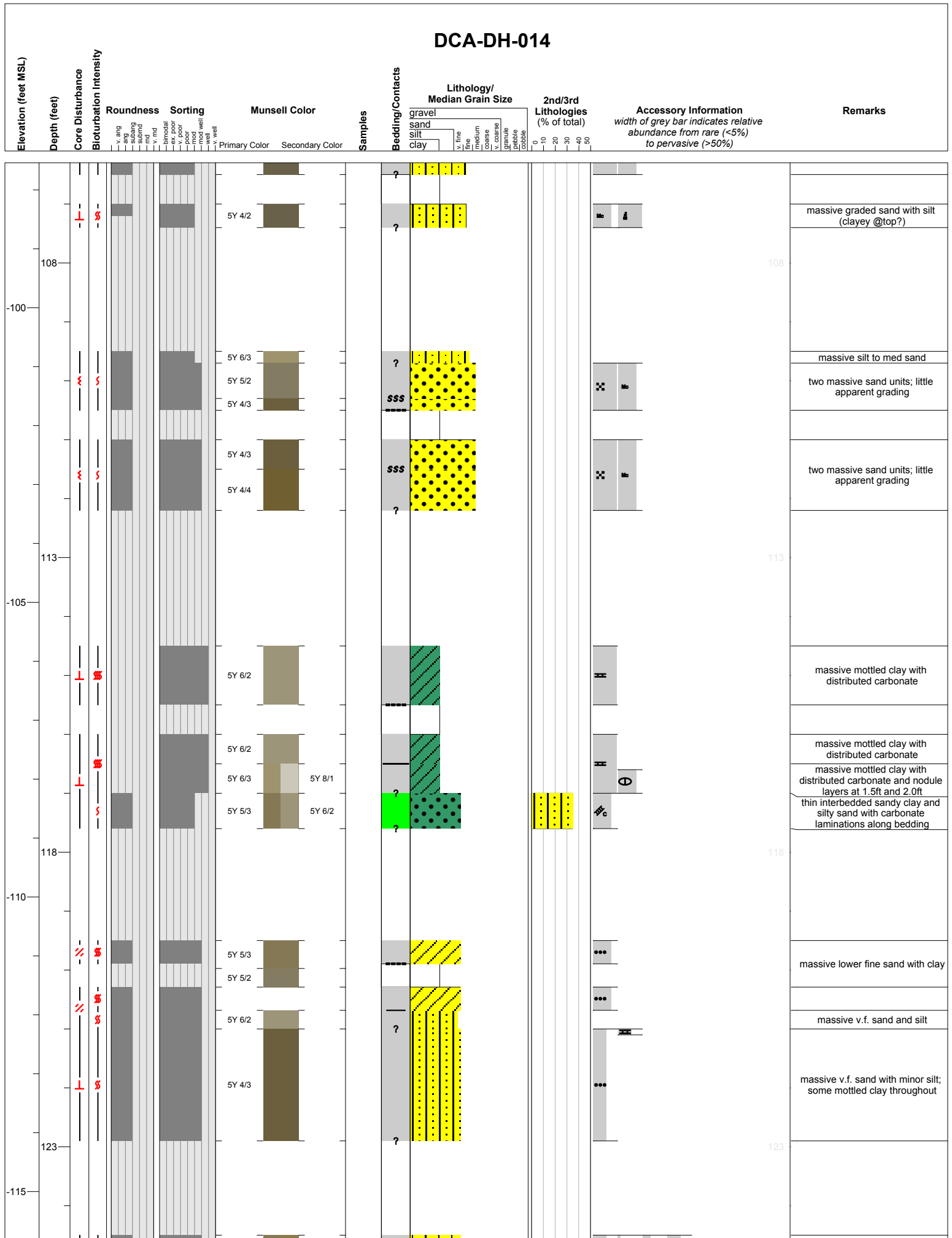
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
			v. ang ang sub-ang fine md v. md bimodal ex. poor poor mod mod well v. well		Primary Color Secondary Color			gravel sand silt clay	v. fine fine medium coarse very coarse granular pebbles cobble	0 10 20 30 40 50		
143								?				above
-135					5Y 7/2			?				massive silt
					5Y 7/3	5Y 6/2		?				massive mottled silt + clay
148								?				

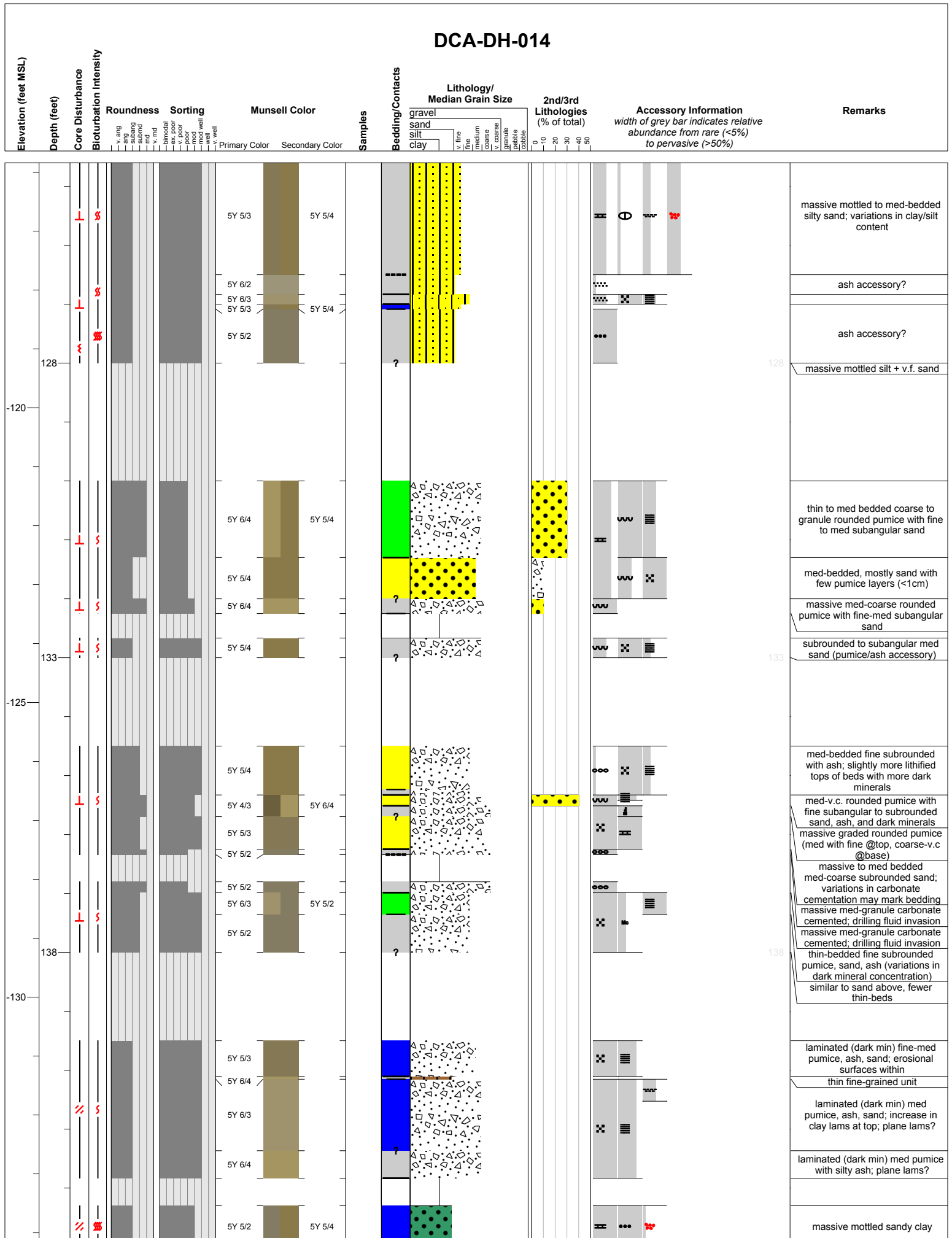
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Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang ind v. ind bimodal ex. poor poor mod well v. well		Primary Color Secondary Color		gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		



DCA-DH-014



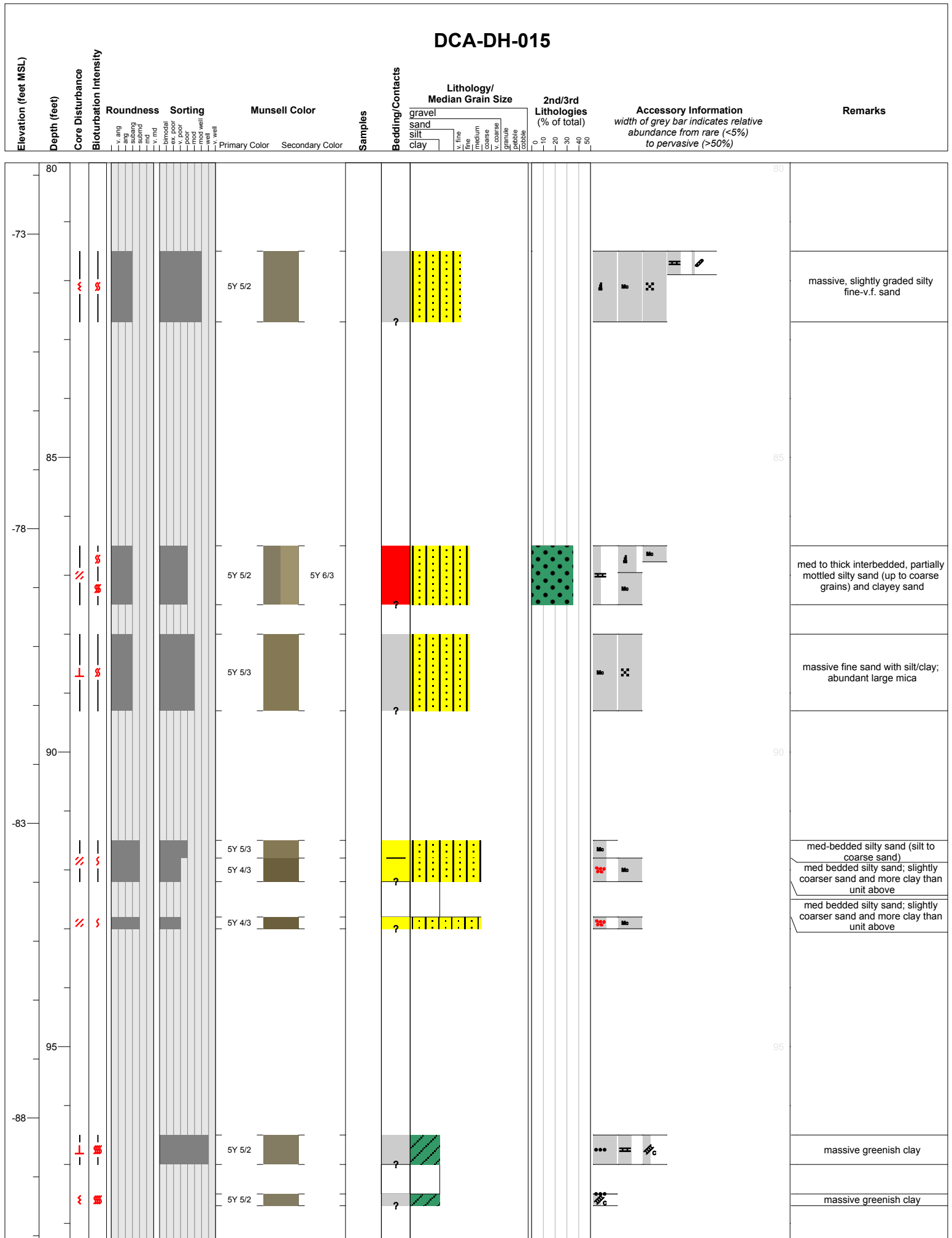
DCA-DH-014



DCA-DH-014

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DCA-DH-015



DCA-DH-015

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Elevation (feet MSL)

Depth (feet)

Core Disturbance	Bioturbation Intensity
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Bioturbati

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Munsell Color
y Color Secondary

Samples

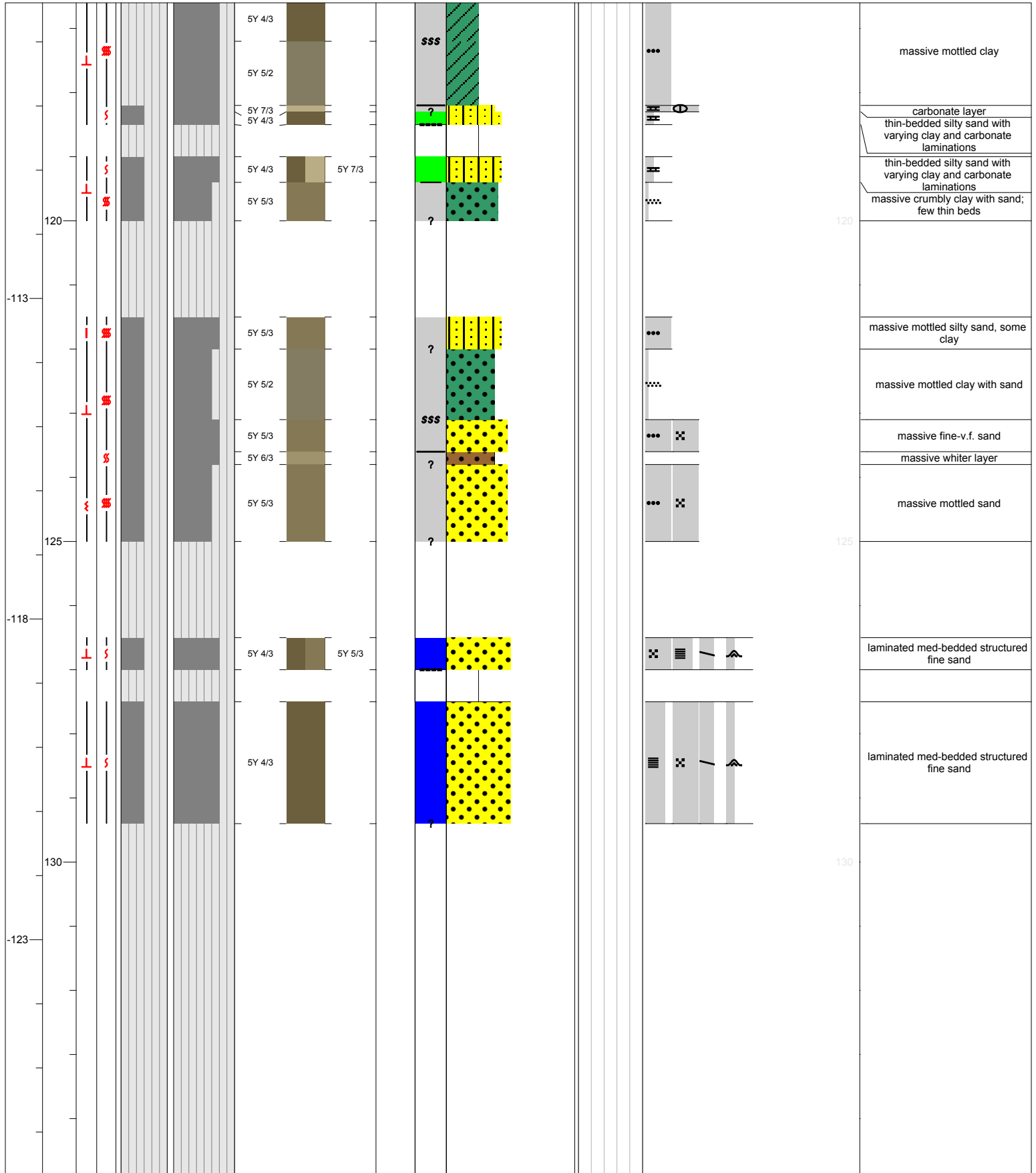
Bedding/Contacts

**Lithology/
Median Grain Size**

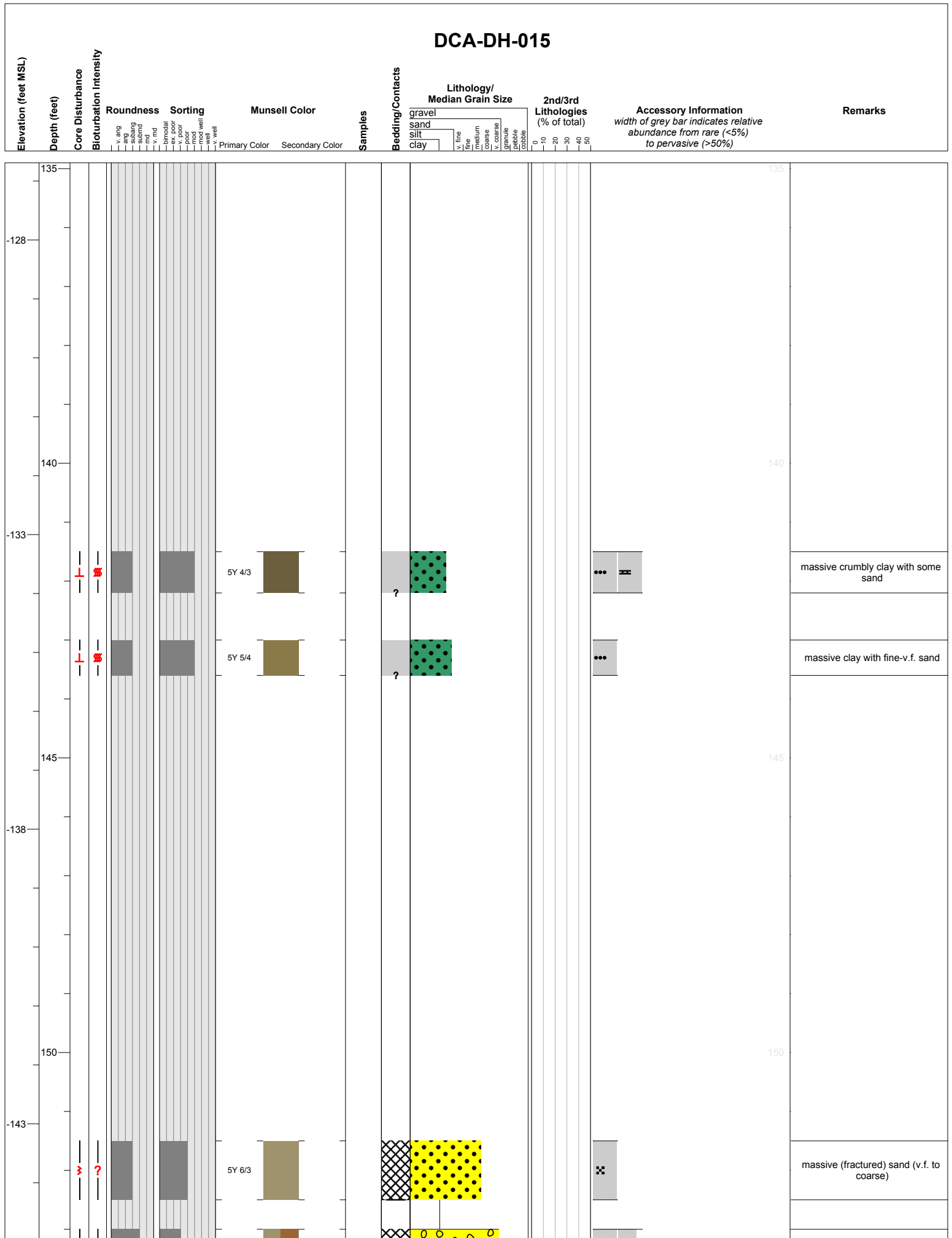
2nd/3rd
Lithologies
(% of total)

Accessory Information
width of grey bar indicates relative
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to pervasive (>50%)

Remarks

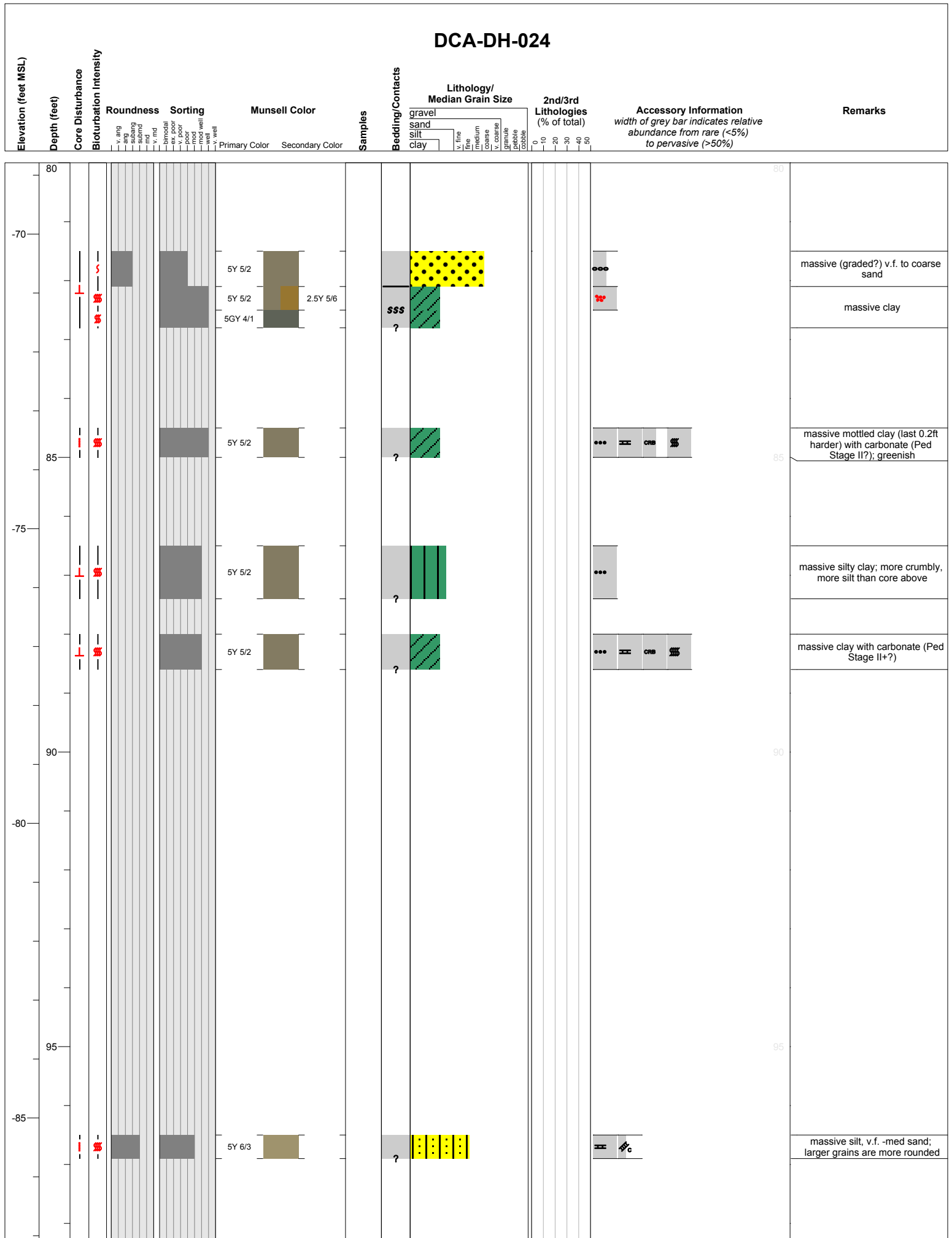


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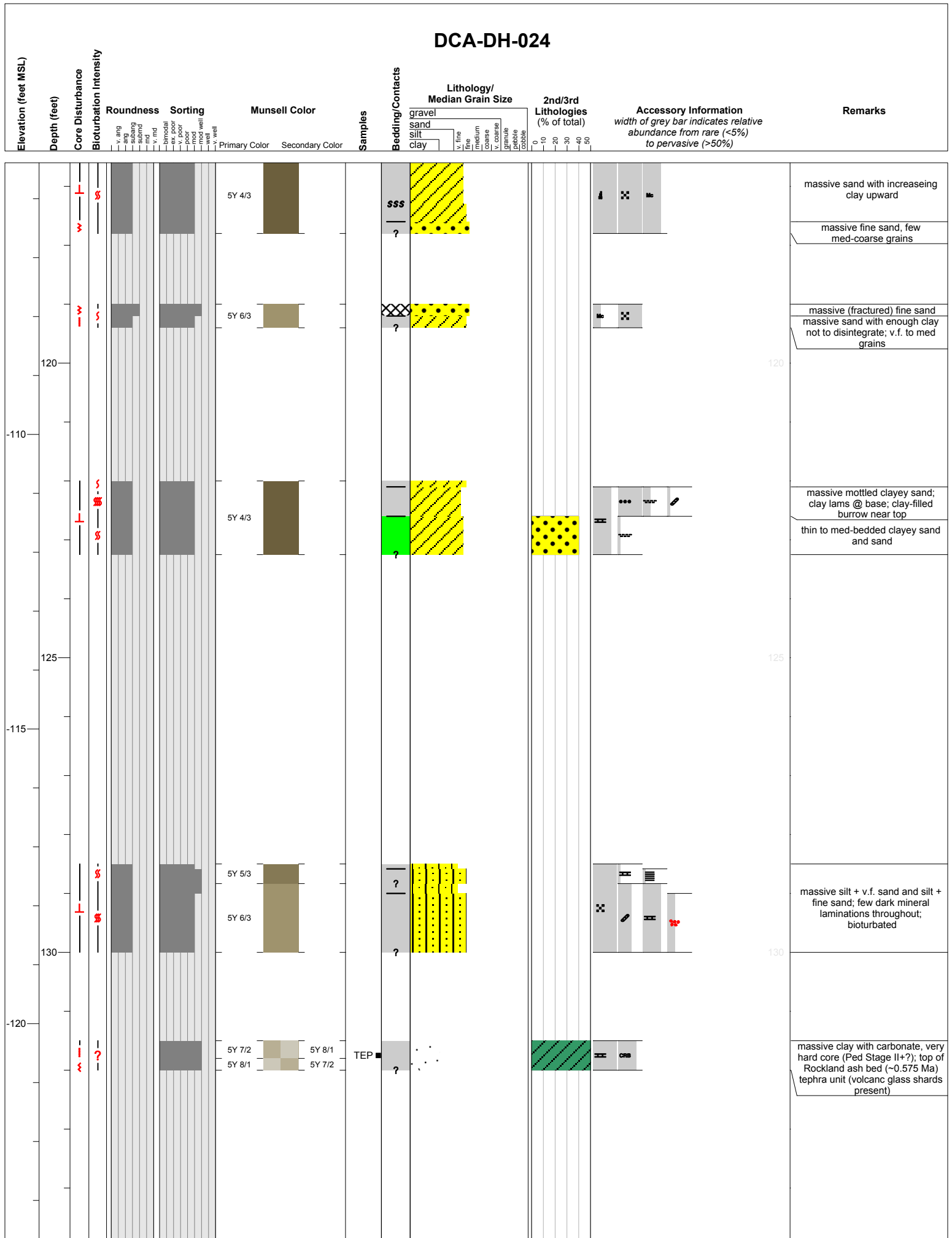


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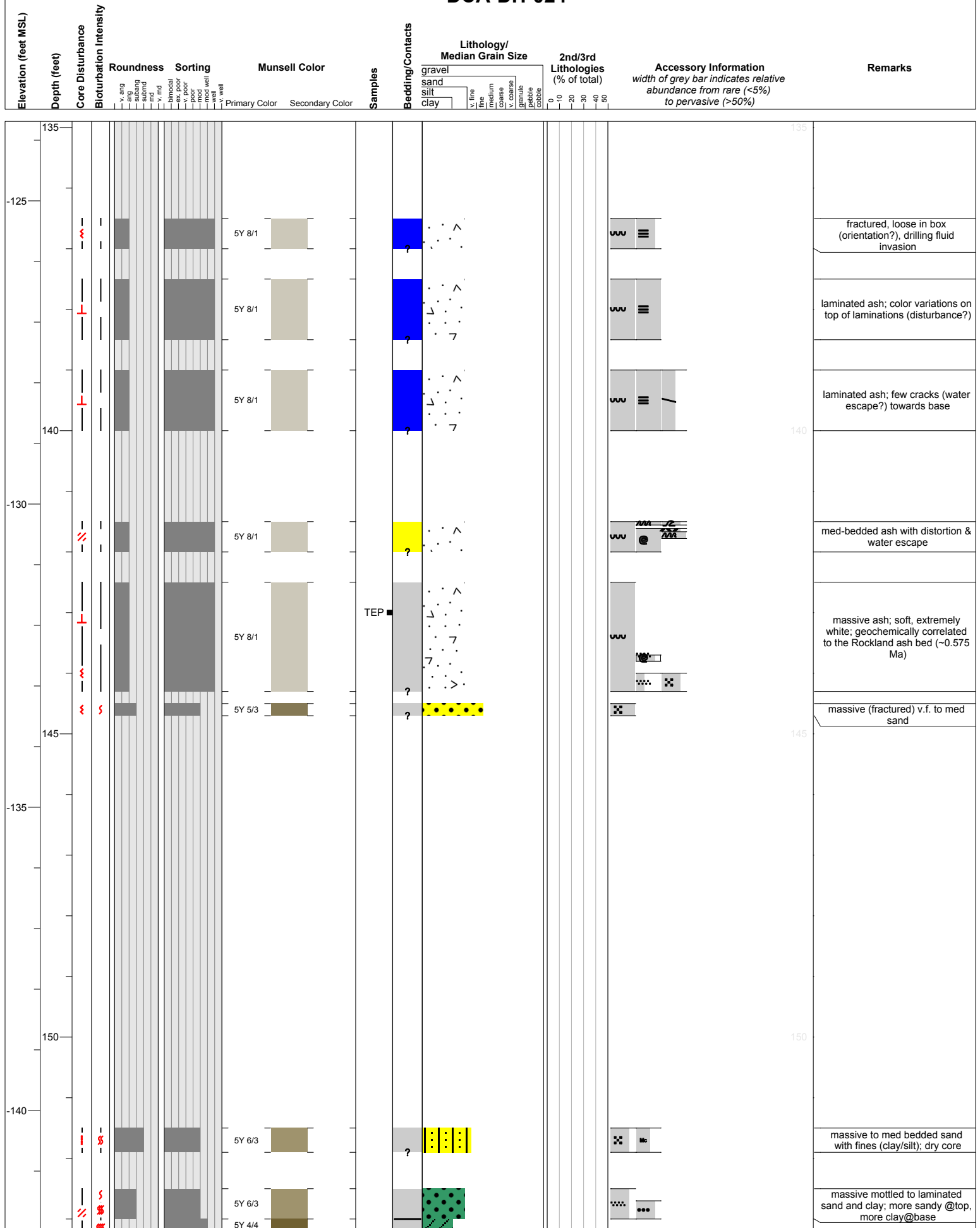
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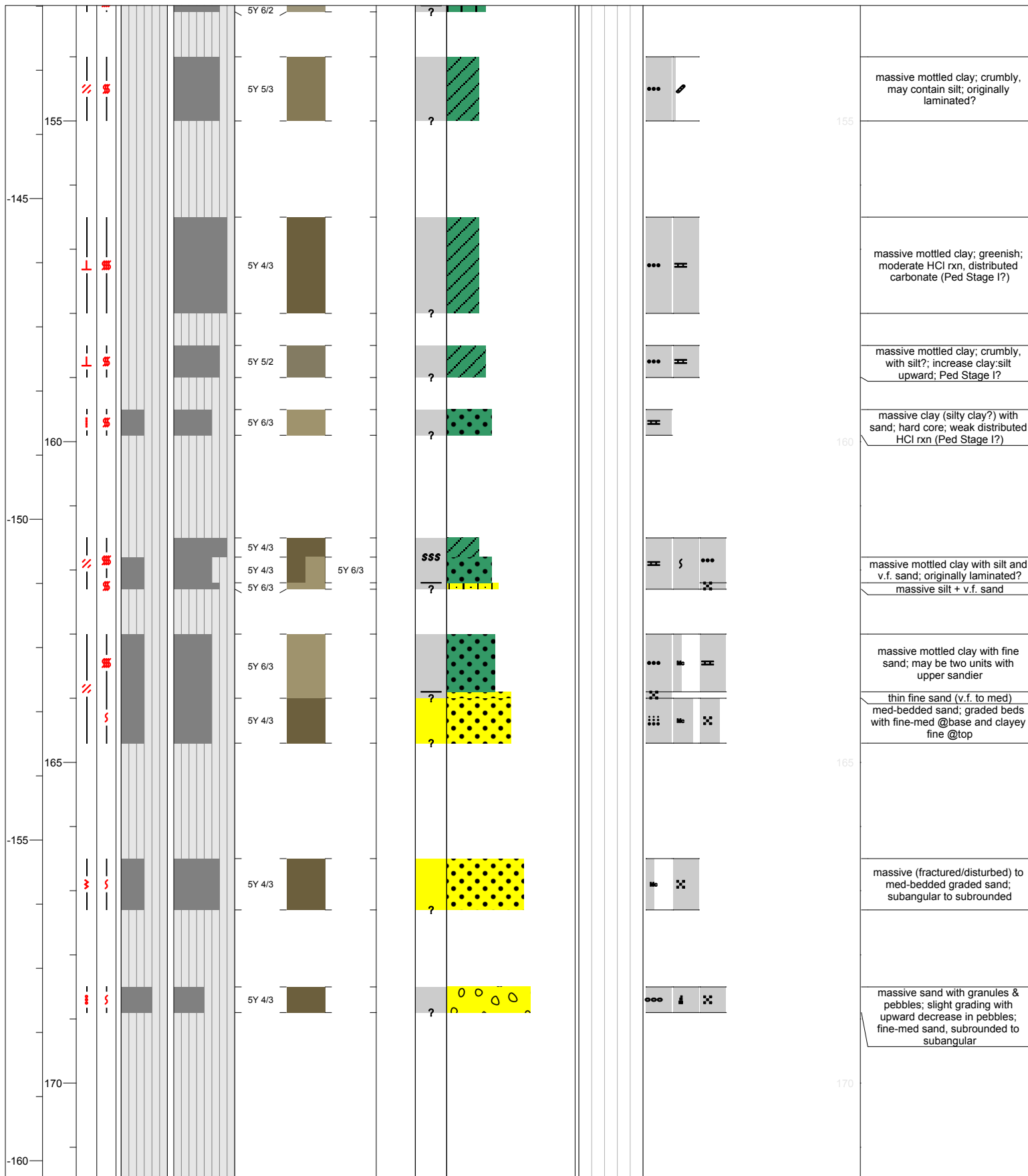
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DCA-DH-024



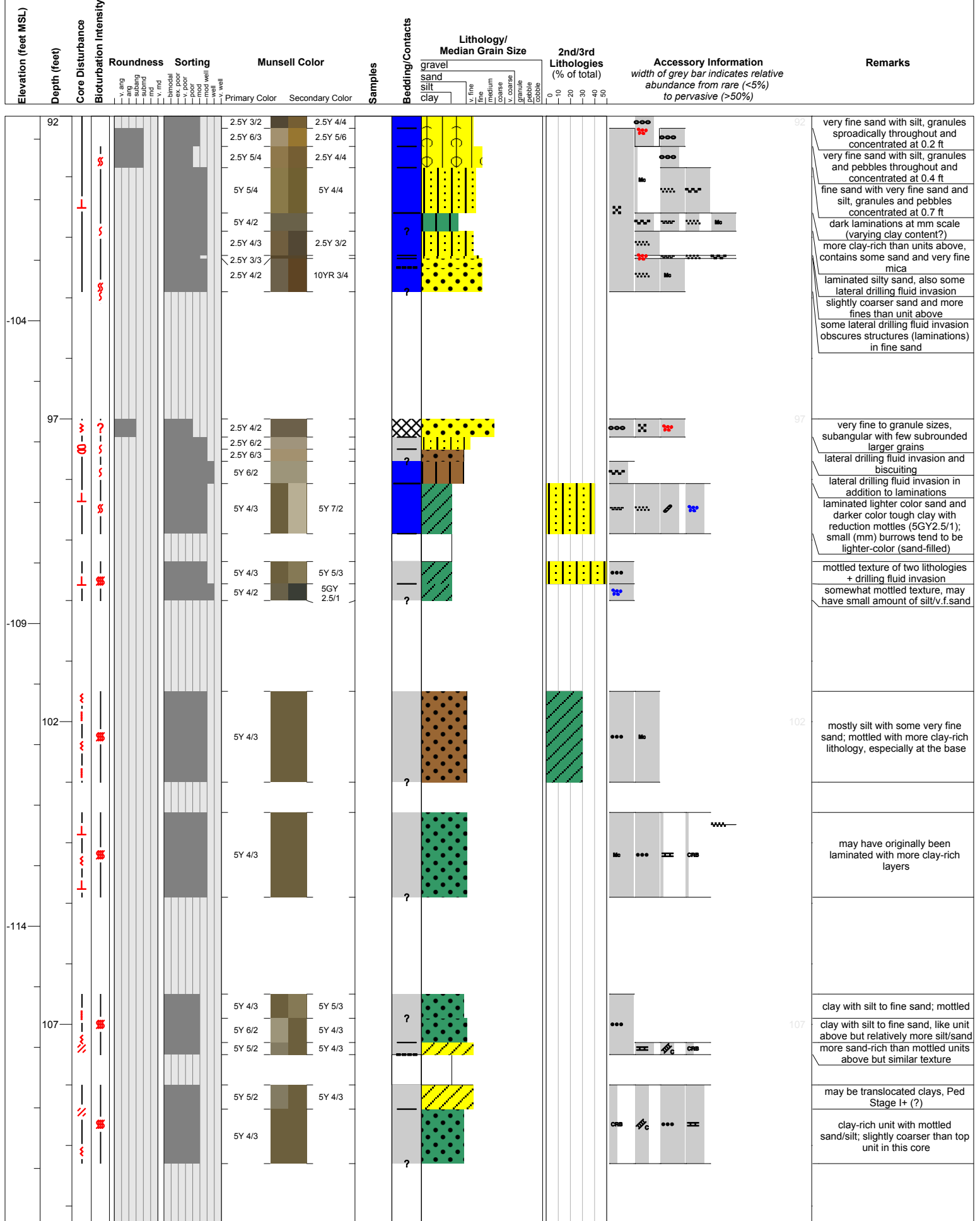
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				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine coarse cobble	0 10 20 30 40 50		



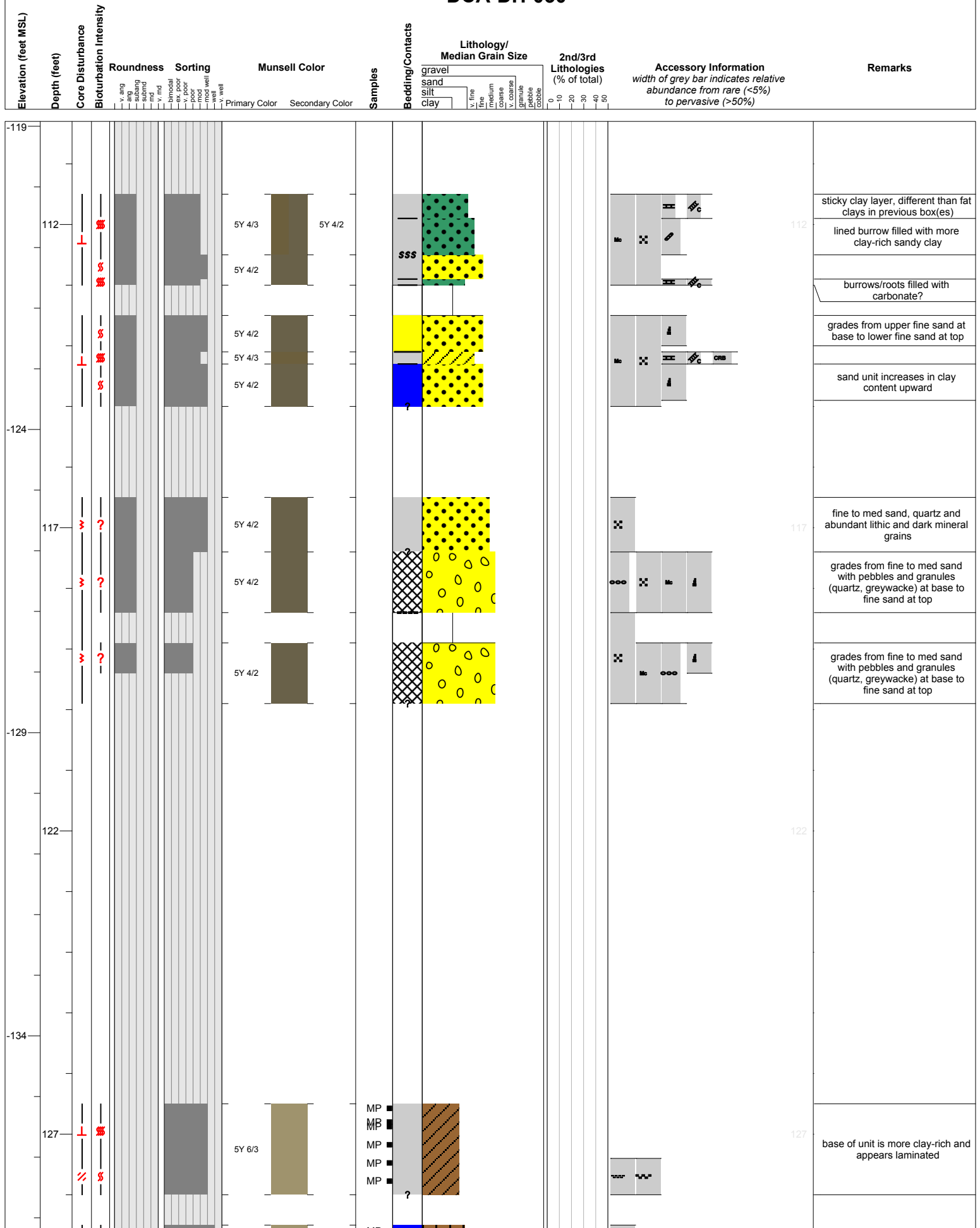
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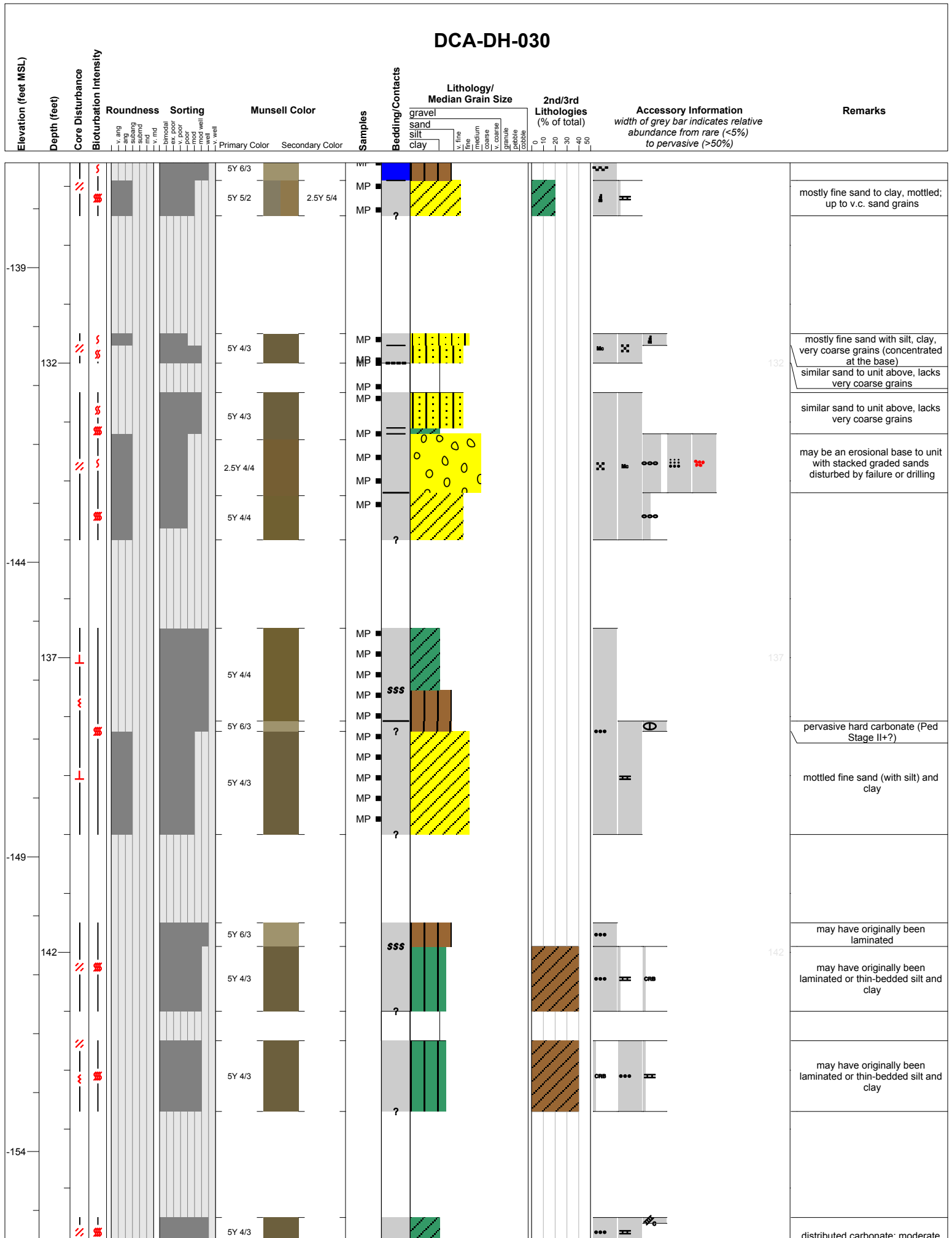
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DCA-DH-030



DCA-DH-030



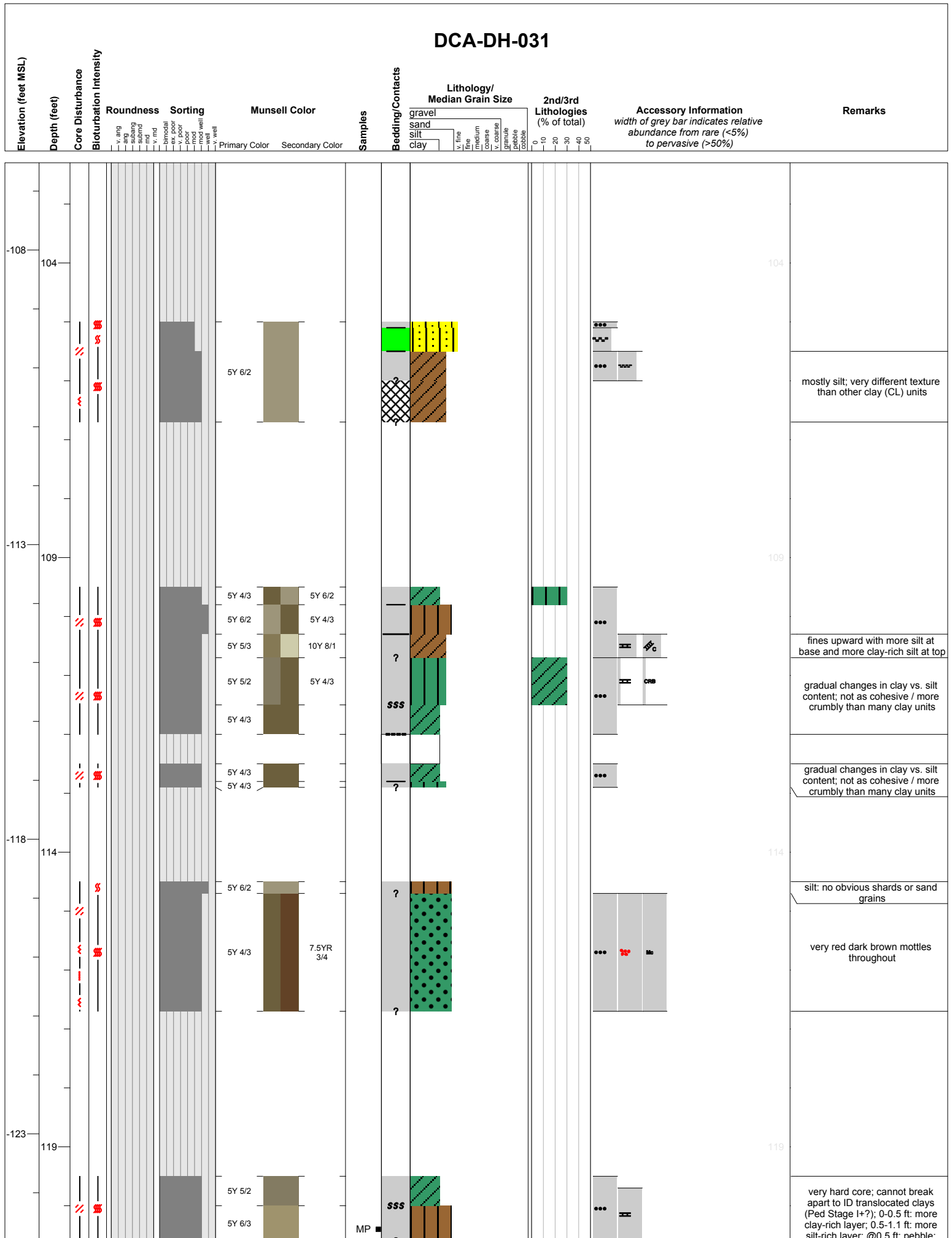
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[illegible]

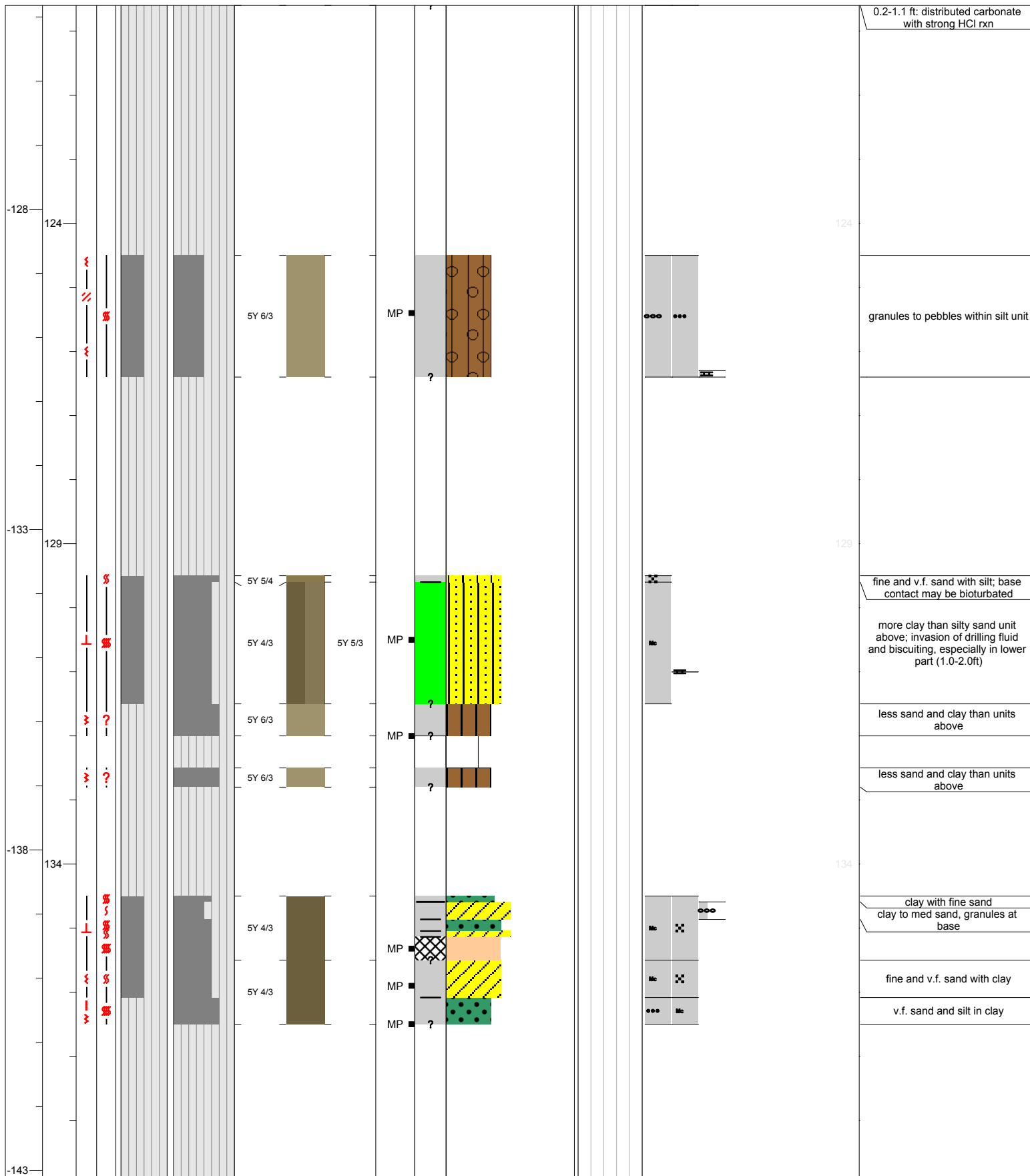
DCA-DH-031

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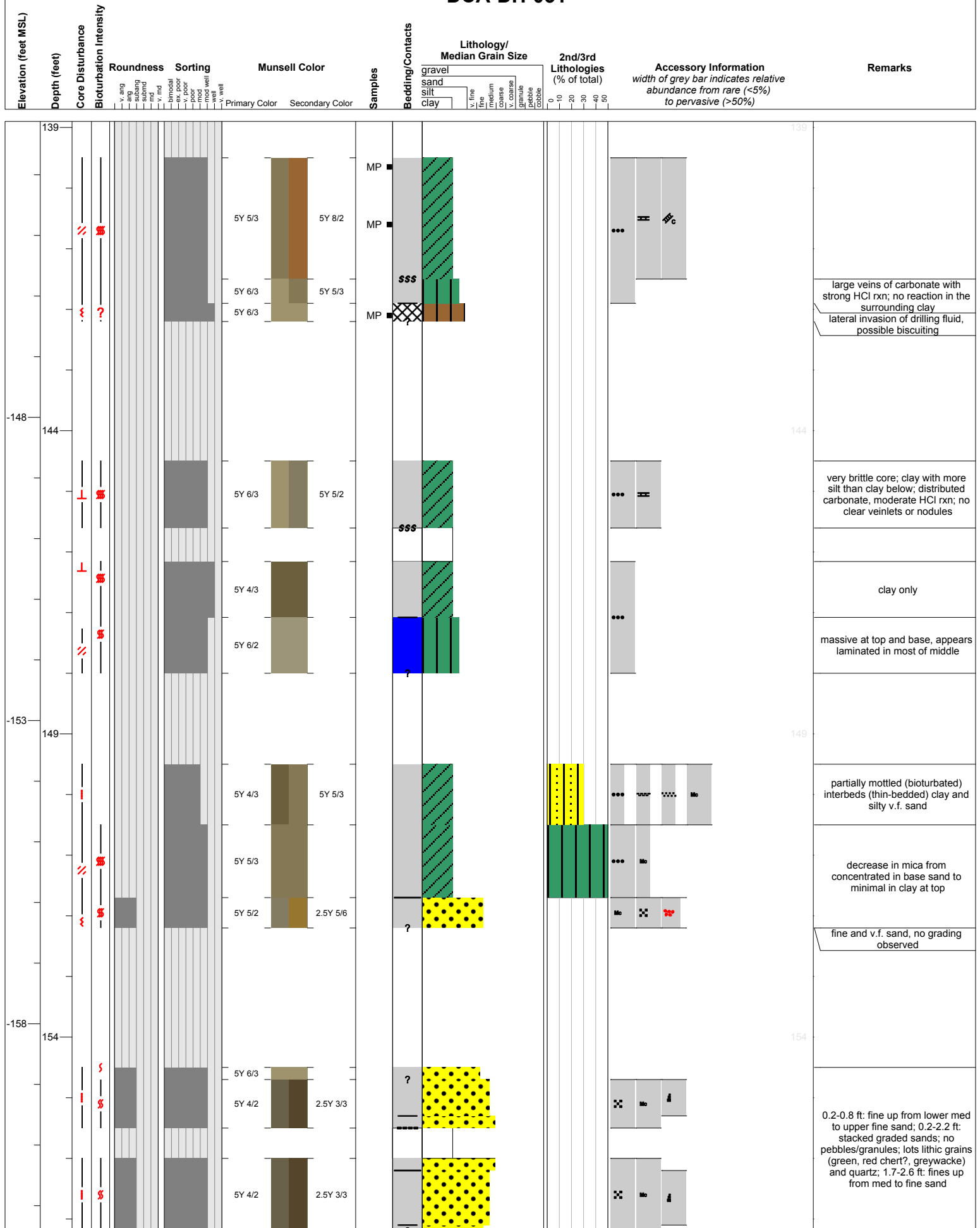
DCA-DH-031



DCA-DH-031											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



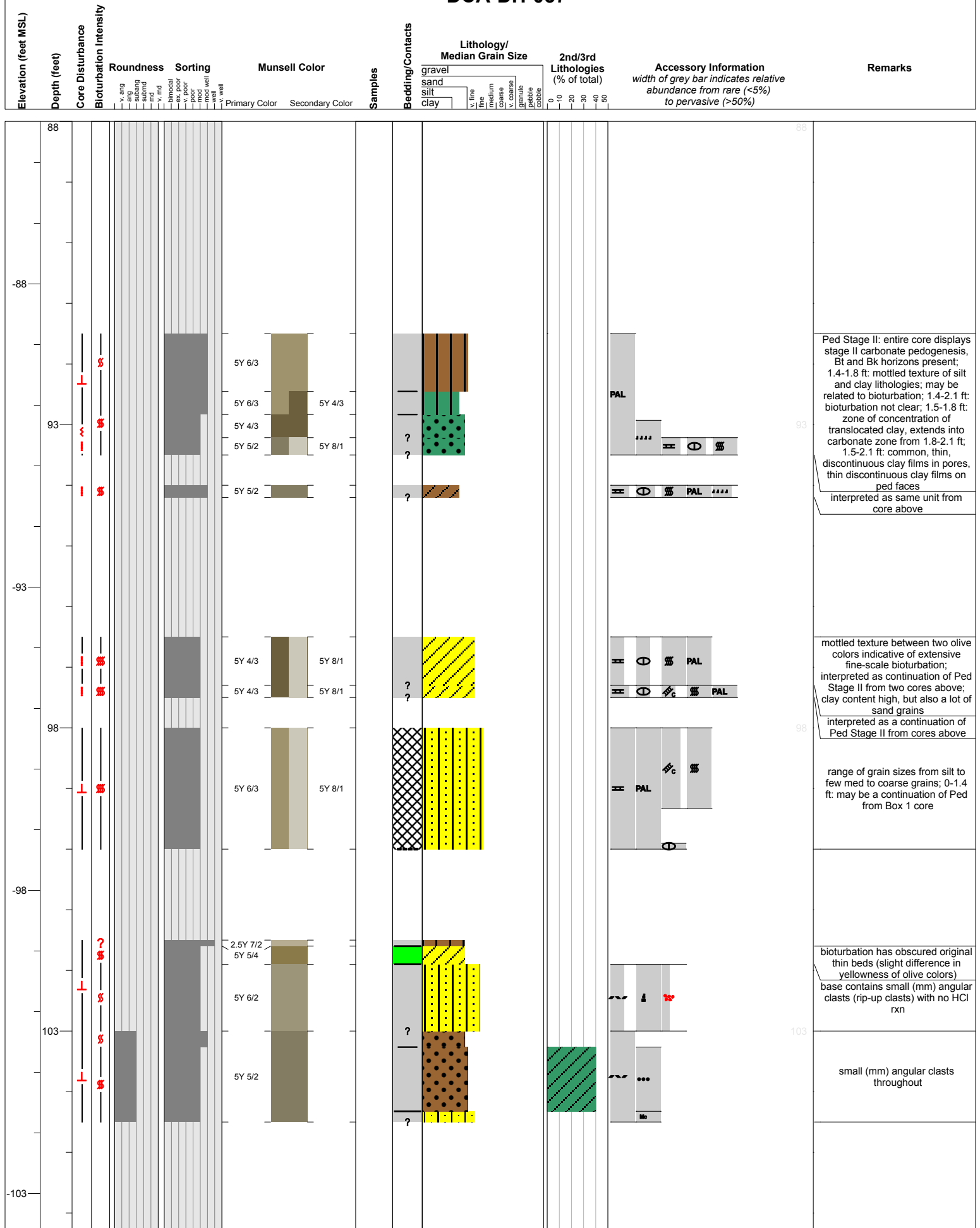
DCA-DH-031



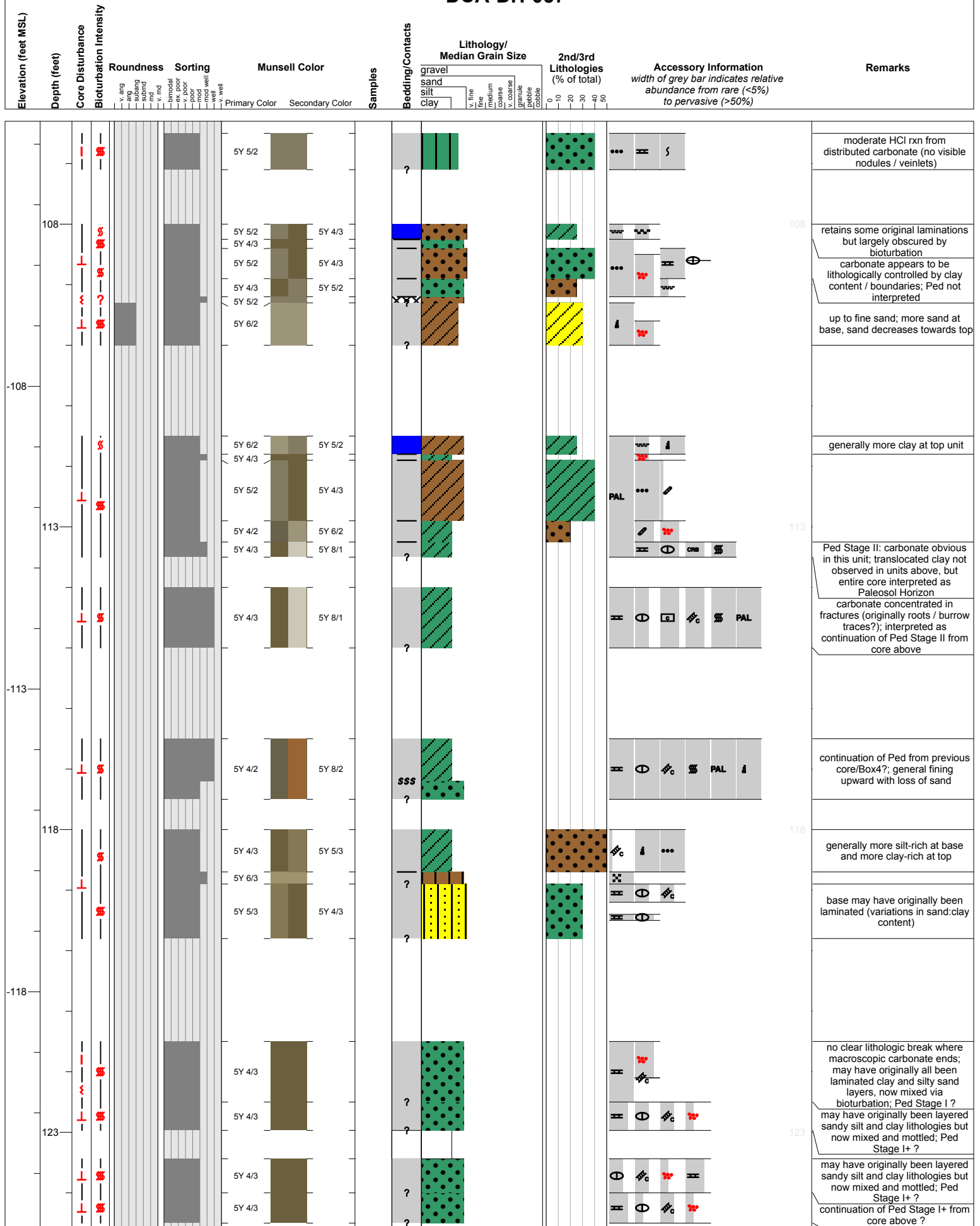
DCA-DH-031

[illegible]

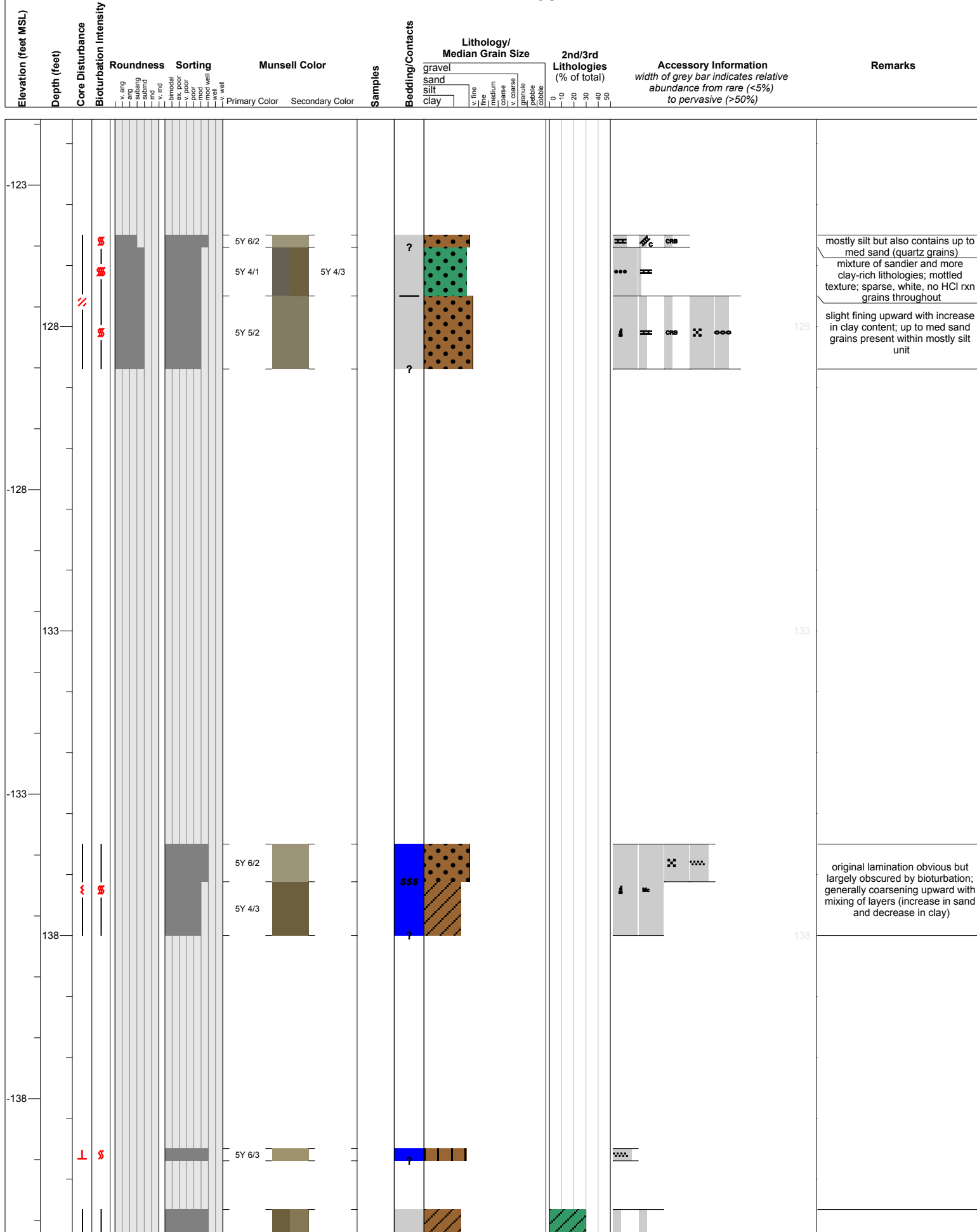
DCA-DH-037



DCA-DH-037



DCA-DH-037



DCA-DH-037

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information	Remarks
				v. ang ang subang mod v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color		gravel sand silt clay	v. fine fine medium coarse v. coarse granules pebbles cobble	0 10 20 30 40 50	width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	
143						5Y 4/3 5Y 5/3						appears to have originally been laminated clay and silt horizons
-143						5Y 7/3		? ?				up to upper fine / lower med sand in silt unit; very hard unit, not possible to scrape to reveal structures
148						5Y 6/3						mostly med sand with some coarse grains

Elevation (feet MSL)

Core Disturbance
Bioturbation Intensity

Sorting

Secondary Color

Samples

Bedding/Contacts

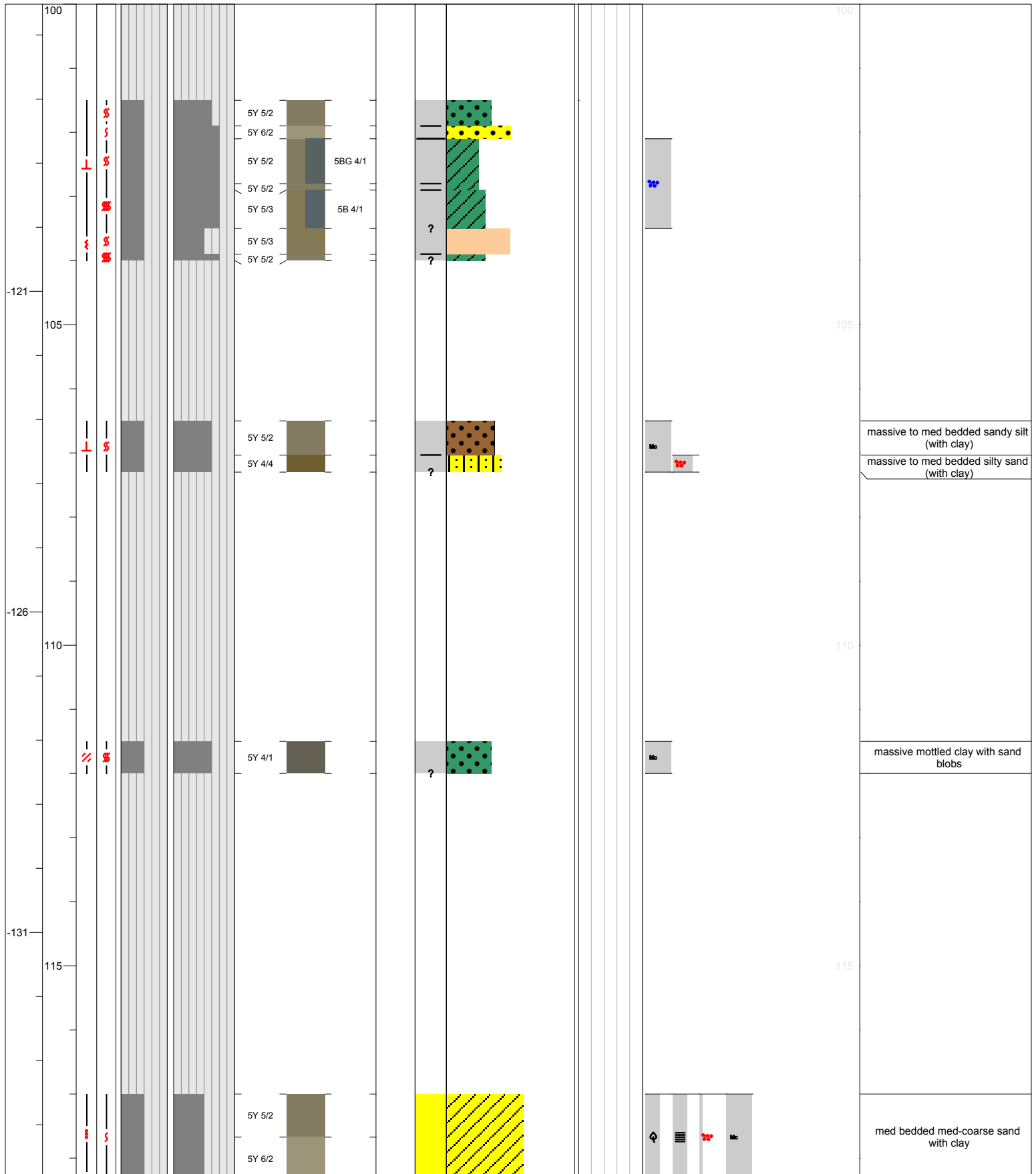
gravel
sand
silt
clay

v. fine
fine
medium
coarse
v. coarse
granule
pebble
cobble

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

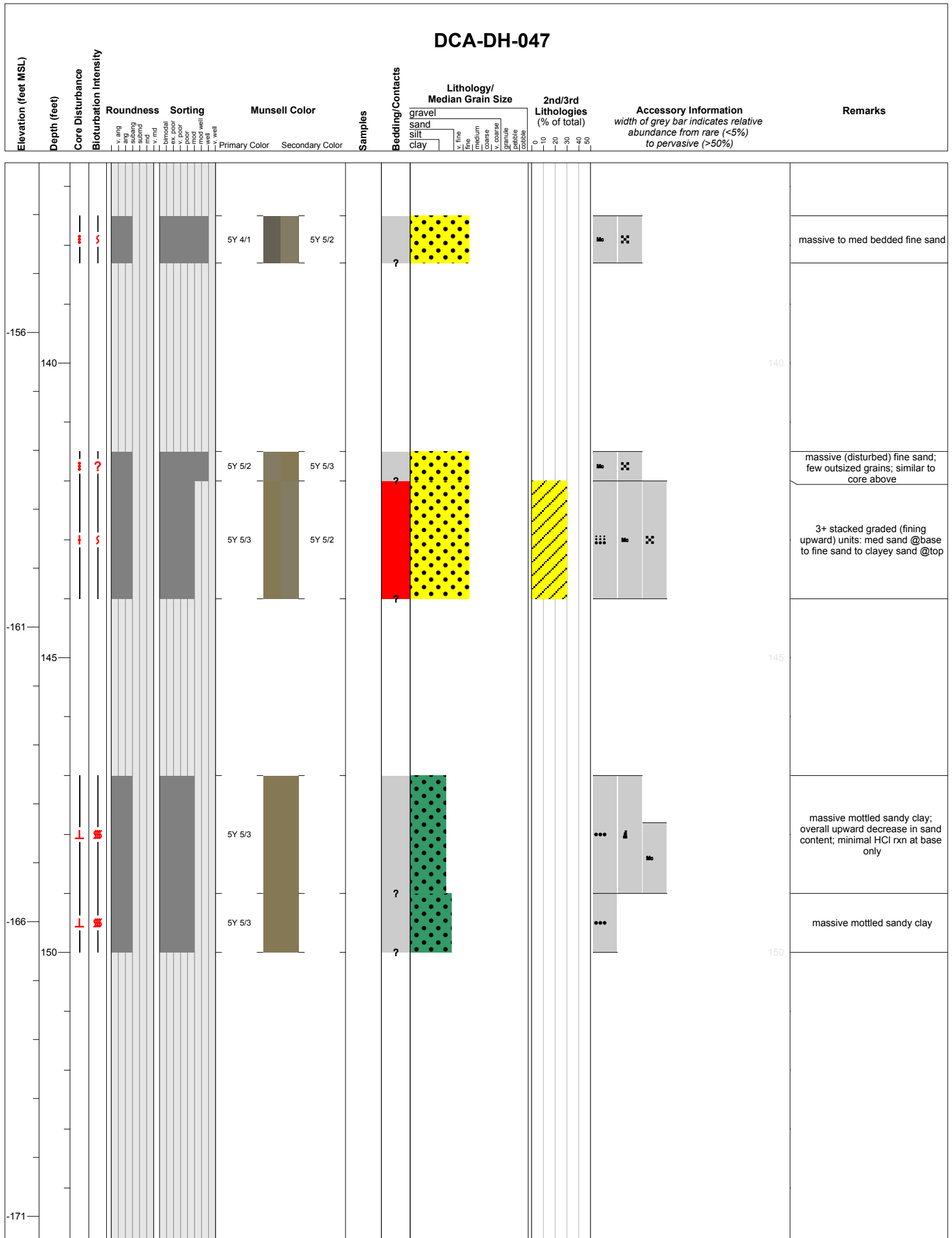
Remarks



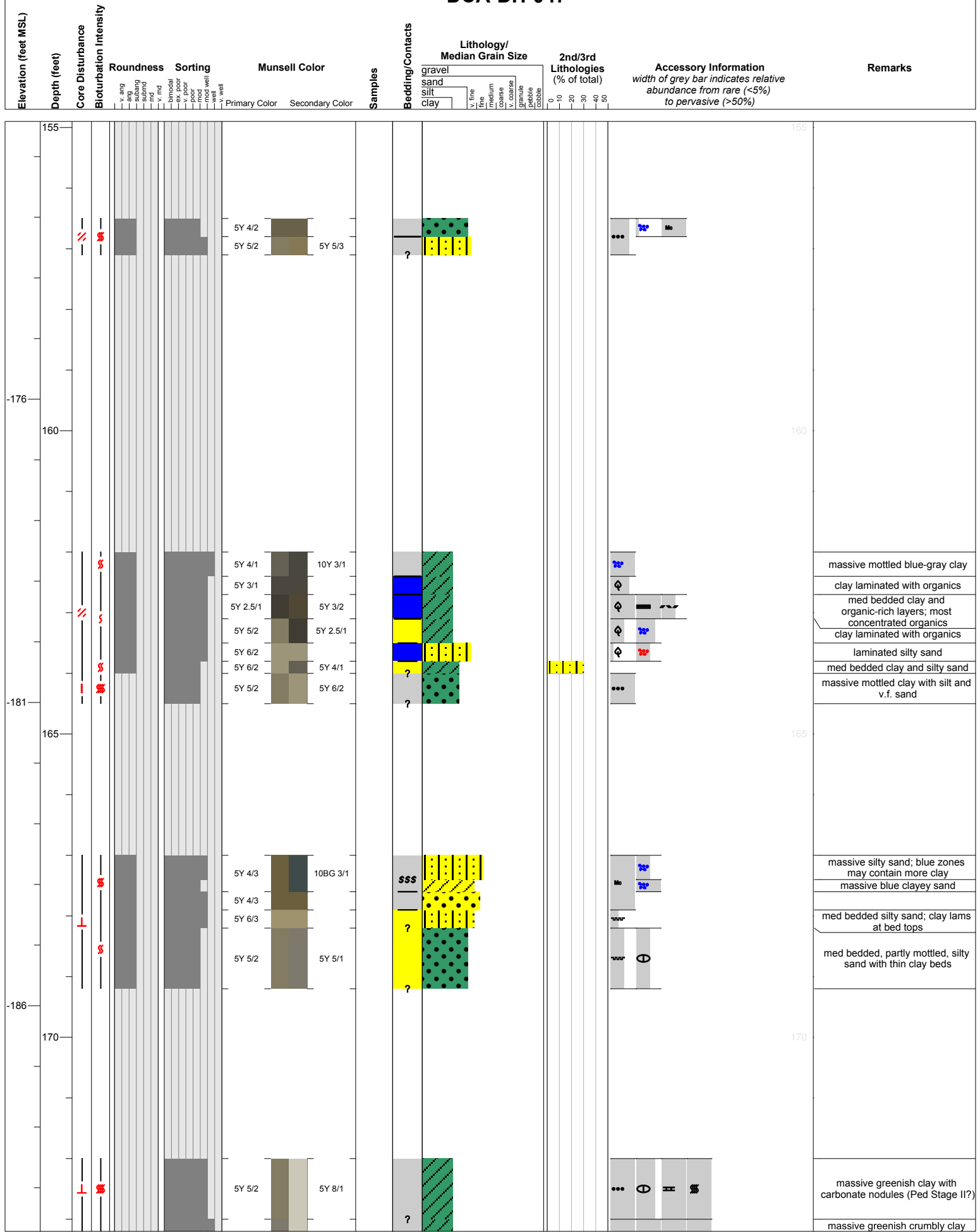
DCA-DH-047

[illegible]

DCA-DH-047



DCA-DH-047



DCA-DH-047

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information	Remarks
			v. ang ang subang mod v. md bi-modal ex. poor poor mod. well v. well			Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granules pebble cobble	0 10 20 30 40 50		
-191	175					5Y 5/1 5Y 8/1 5Y 5/2 5Y 7/3		?			H D PAL	with carbonate (clay films likely; Ped Stage III?) massive mottled crumbly clay with carbonate (clay films likely, Ped Stage III?)
												175

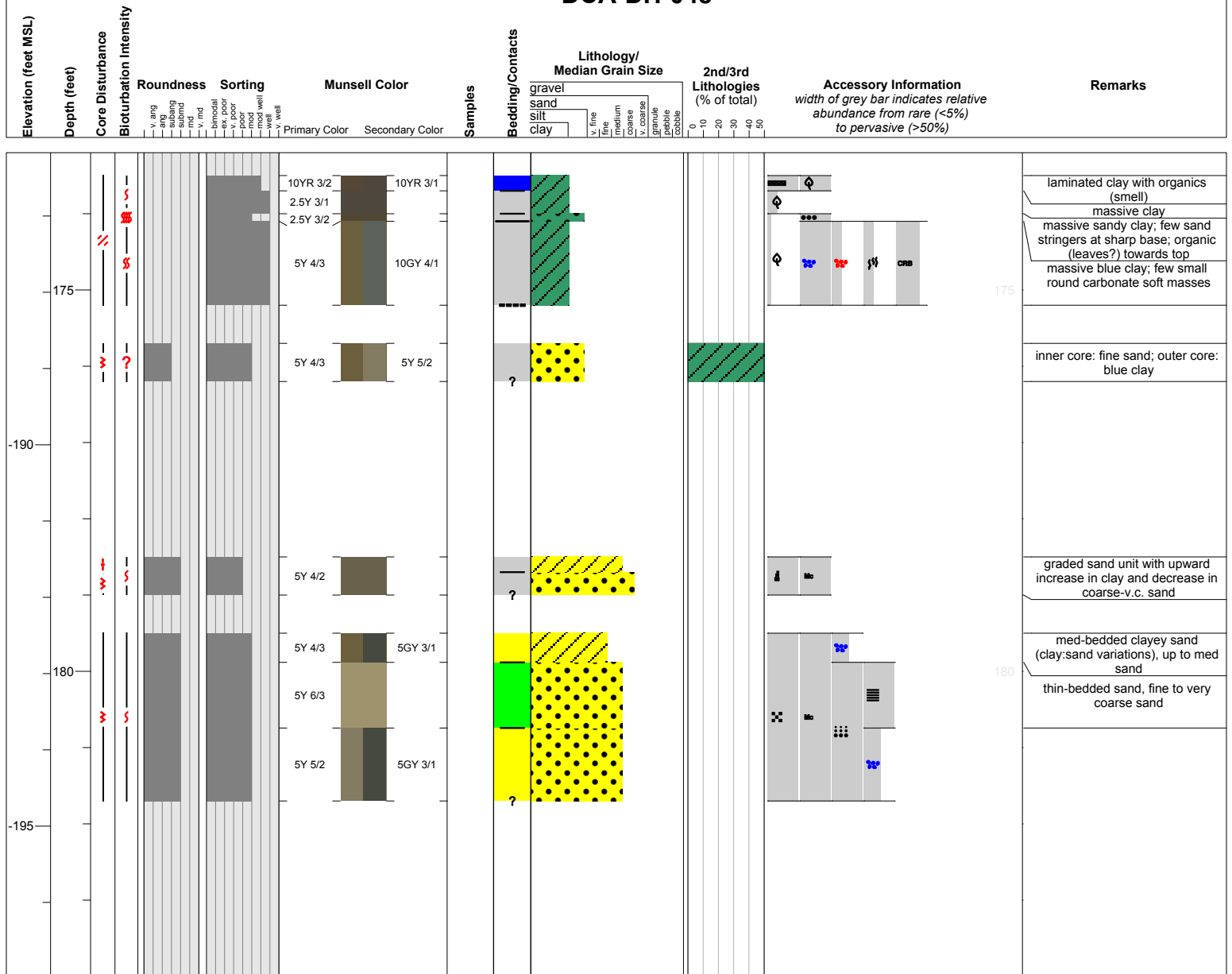
DCA-DH-048

[illegible]

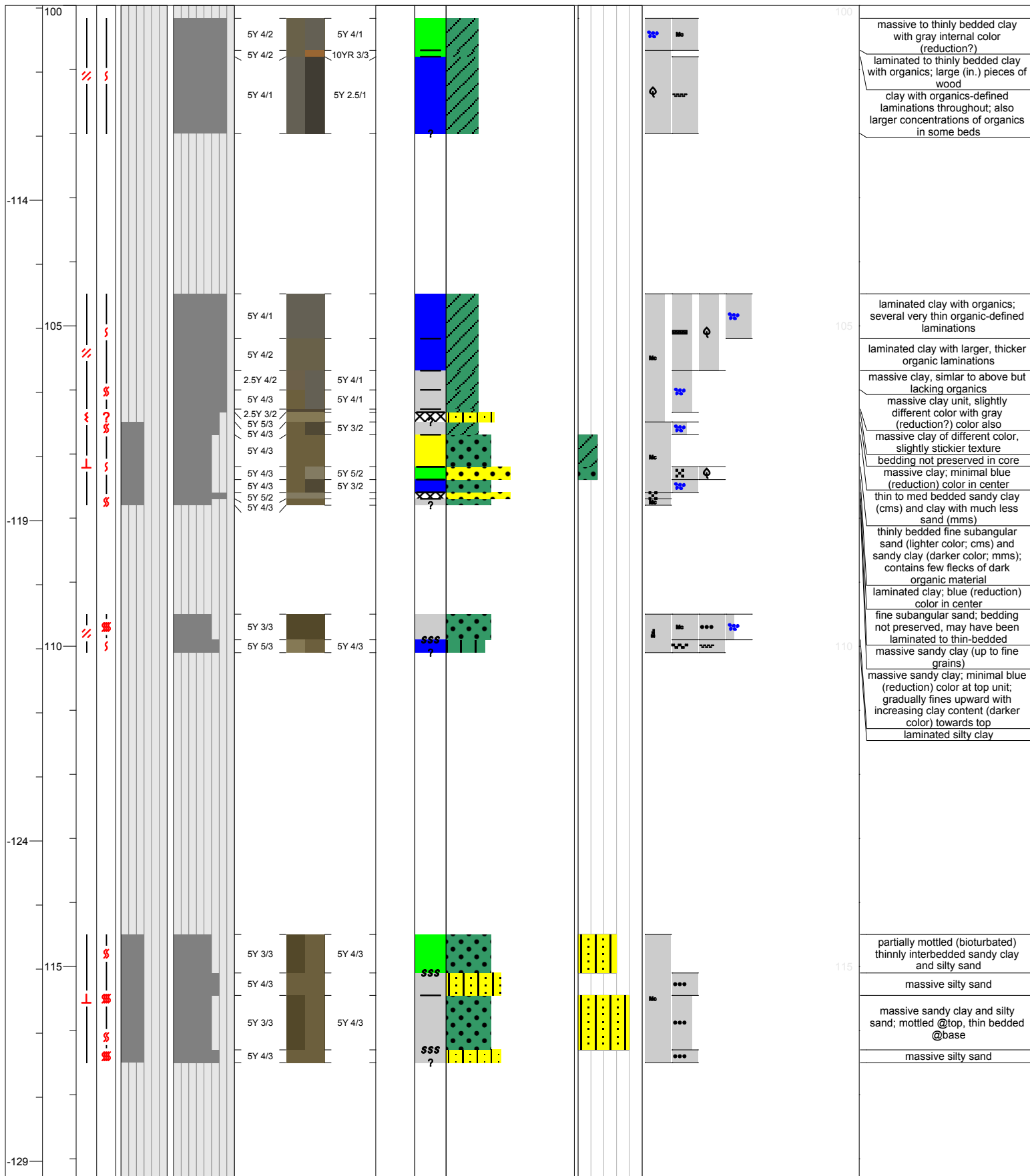
DCA-DH-048

[illegible]

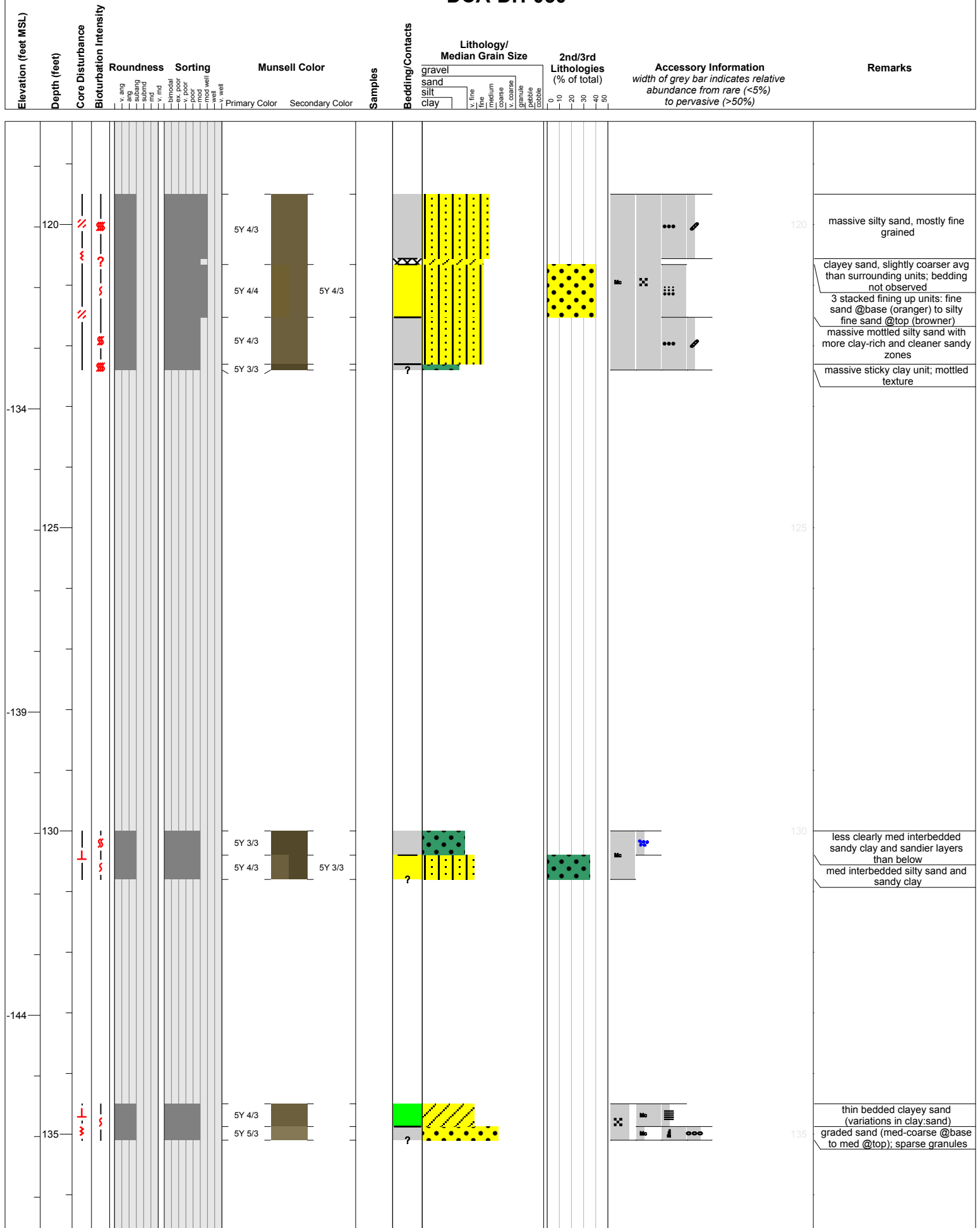
DCA-DH-048



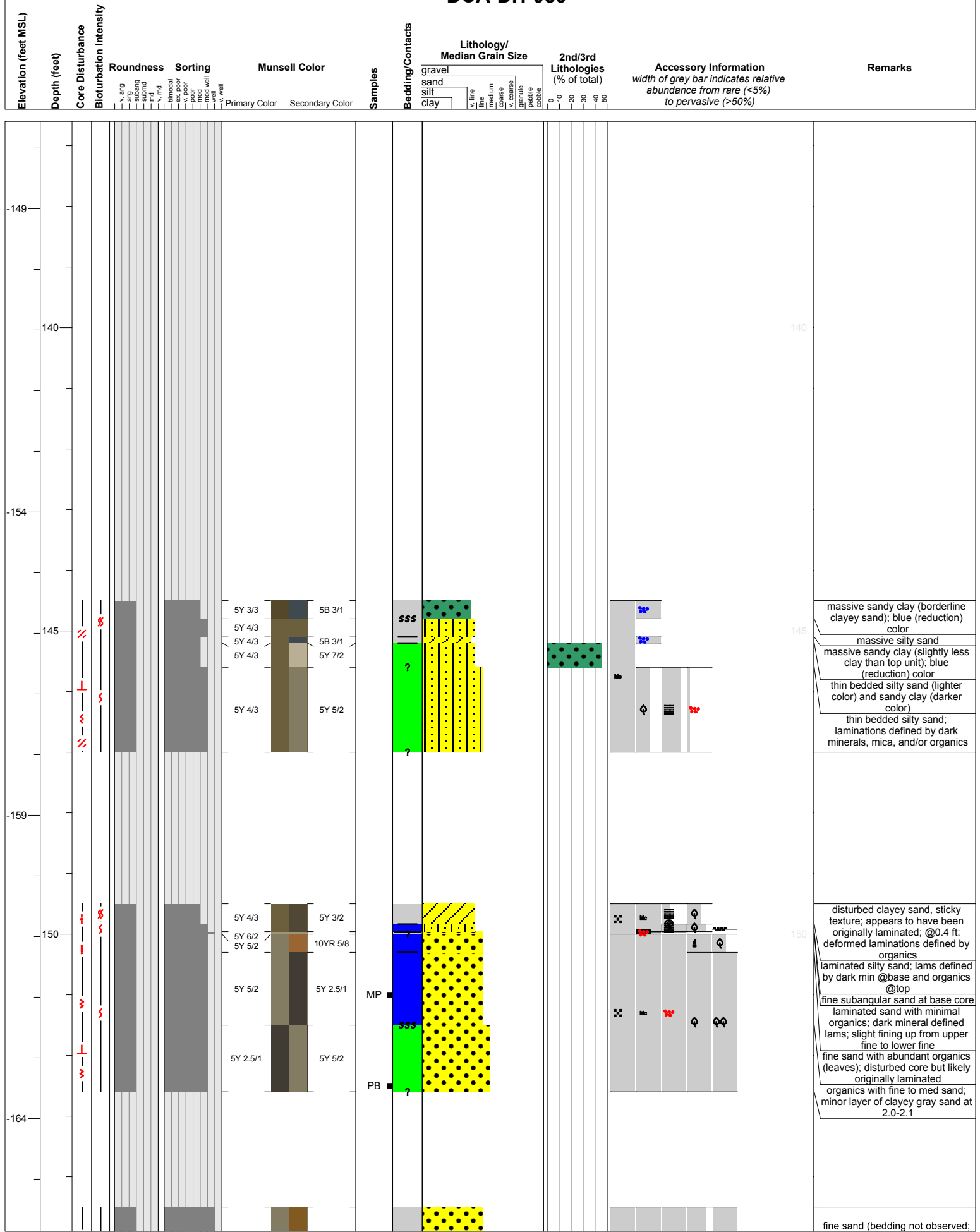
DCA-DH-050												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine coarse cobble	0 10 20 30 40 50		



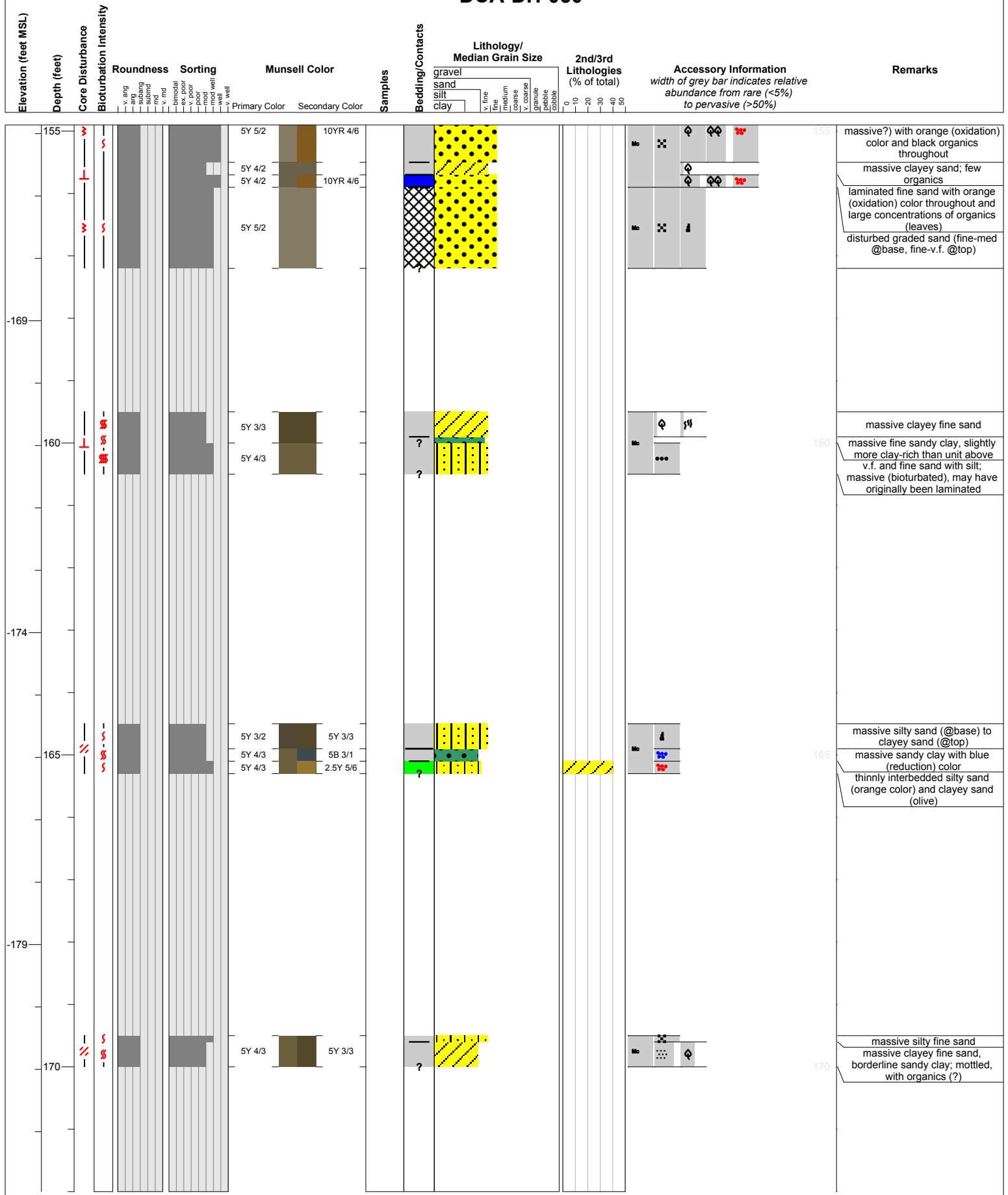
DCA-DH-050



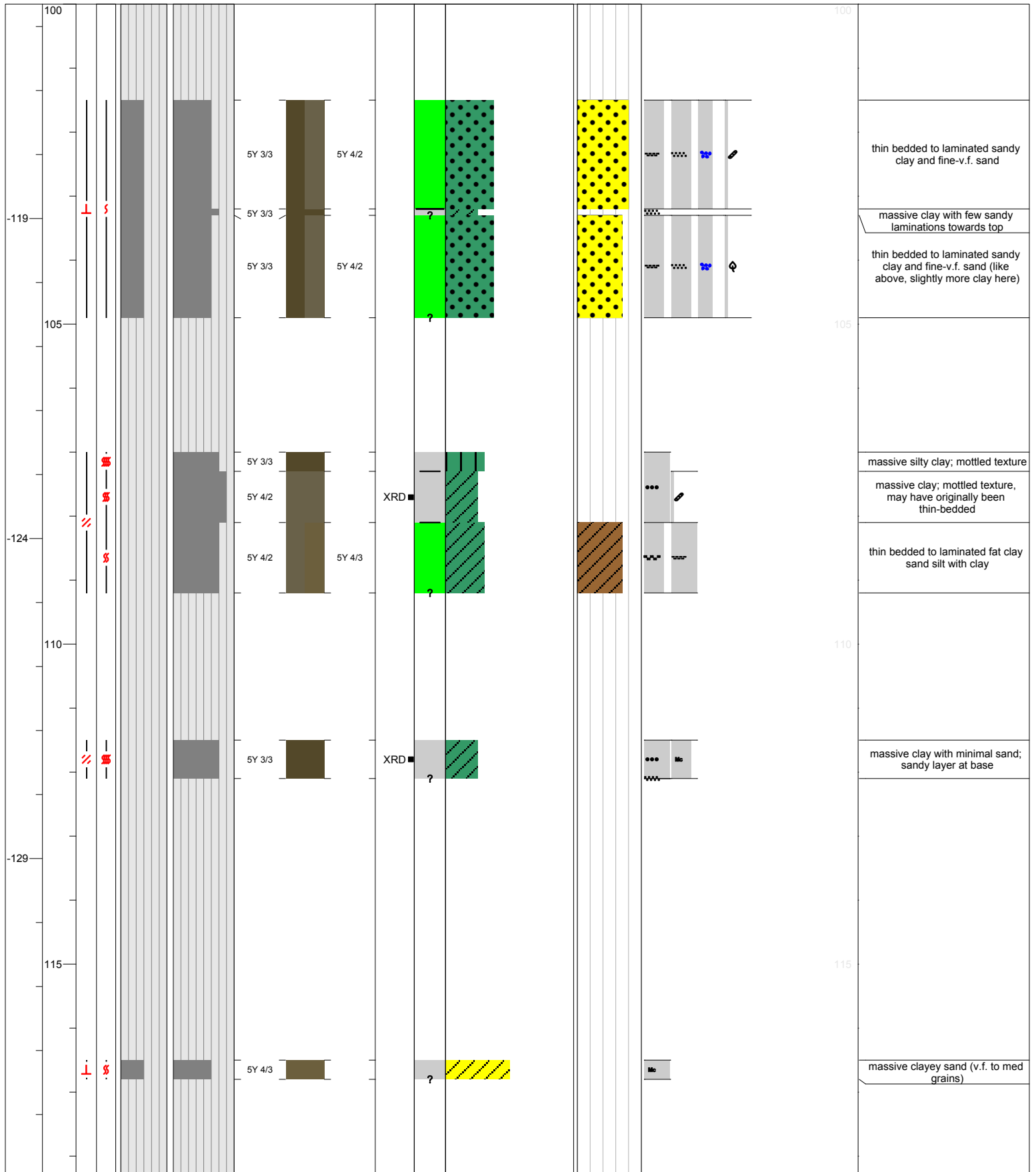
DCA-DH-050



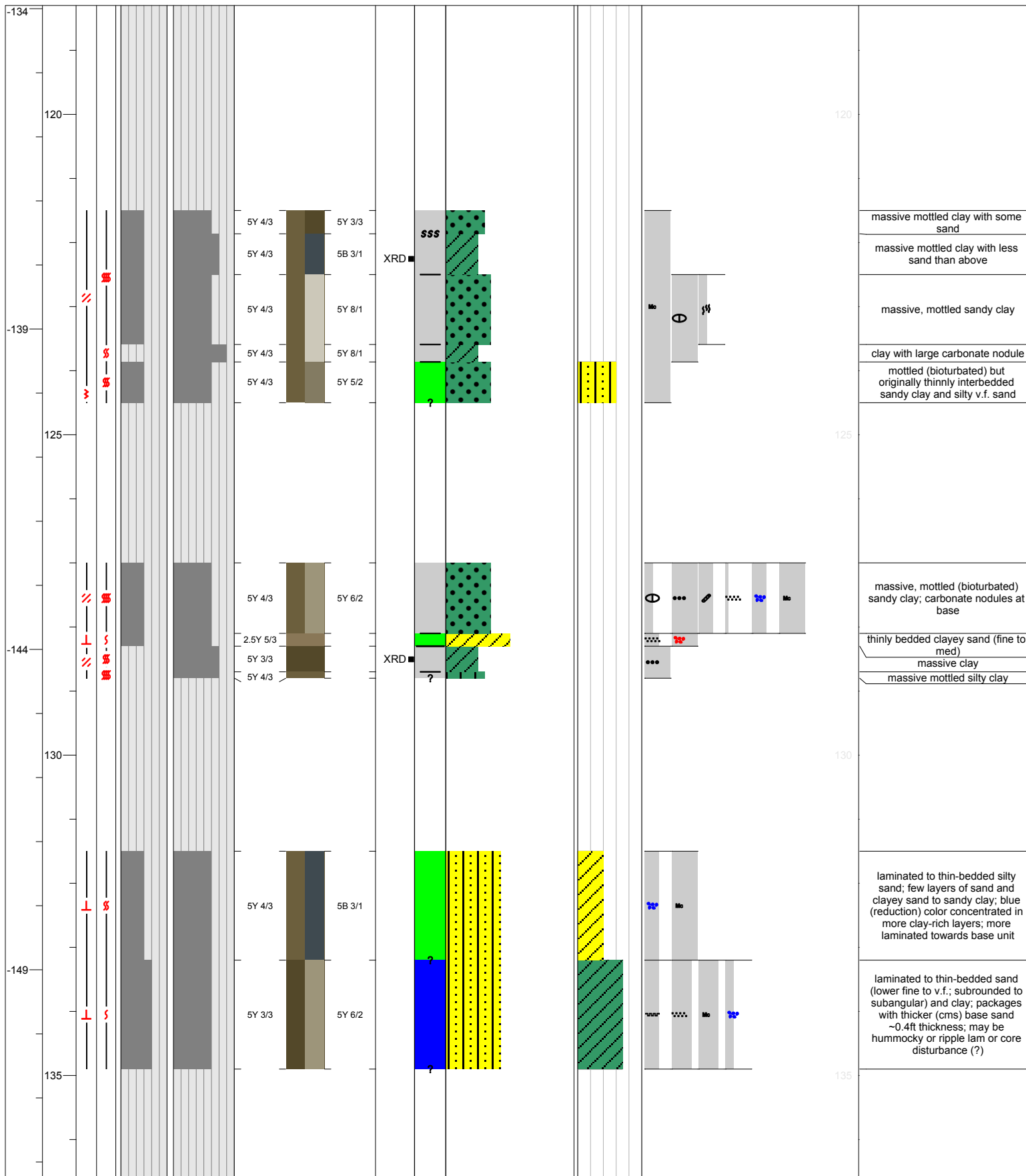
DCA-DH-050



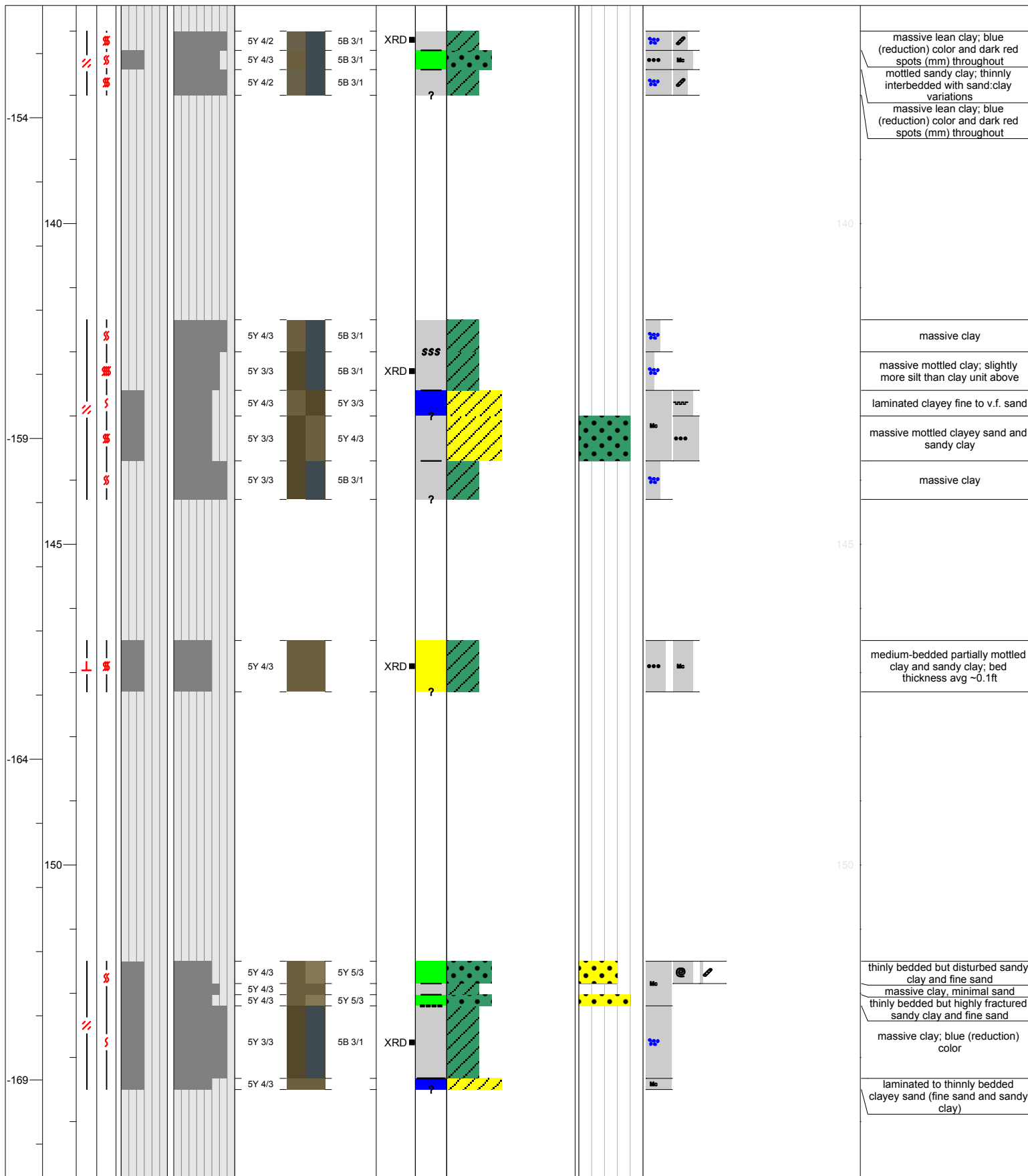
DCA-DH-051											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



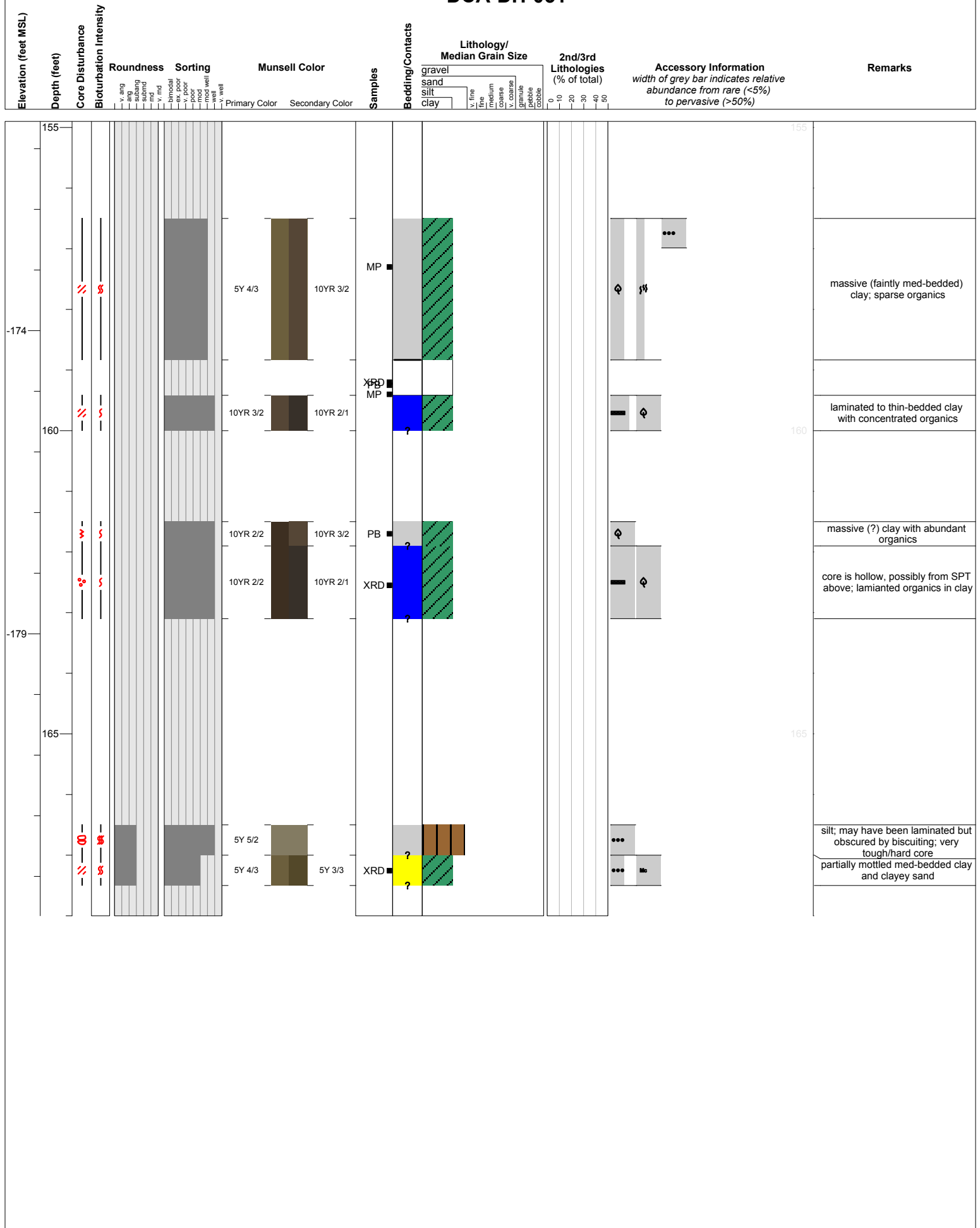
DCA-DH-051											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



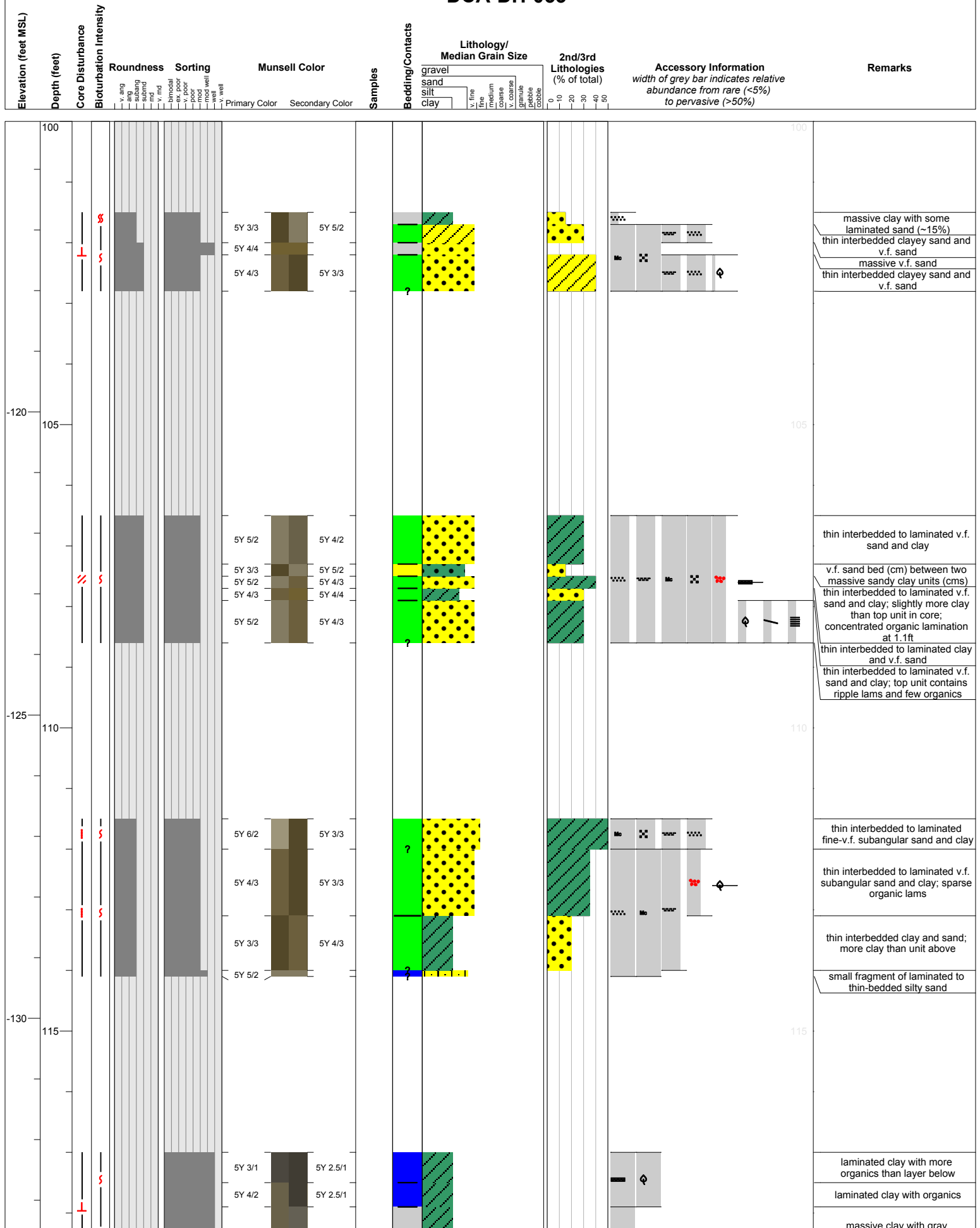
DCA-DH-051												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine medium coarse	0 10 20 30 40 50		



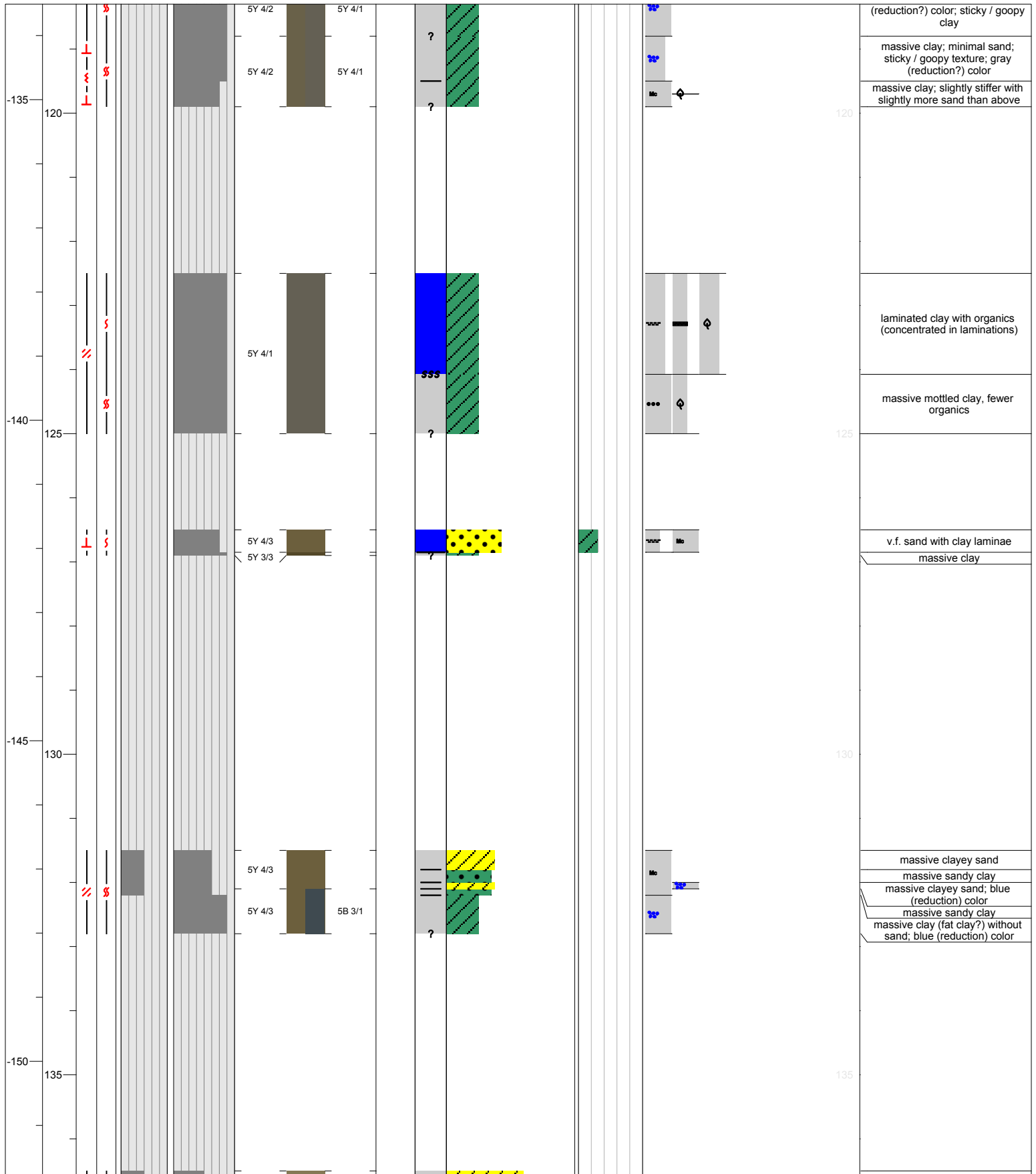
DCA-DH-051



DCA-DH-053



DCA-DH-053												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine coarse cobble	0 10 20 30 40 50		



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Re

Sorting

Munsell Color

Primary Color Secondary Color

Samples

Bedding/Contacts

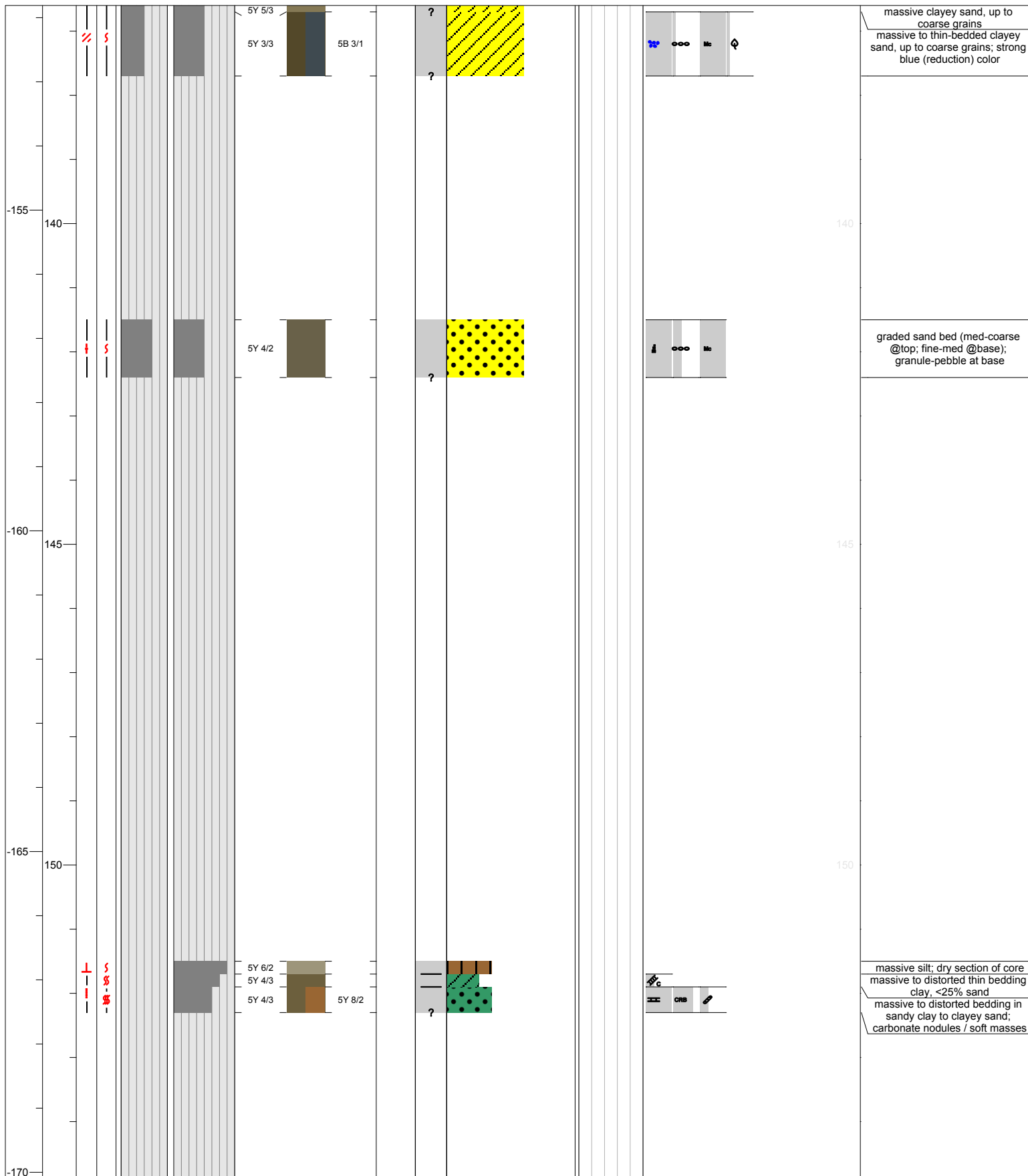
Lithology/
Median Grain Size

gravel
sand
silt
clay

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



DCA-DH-053

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
						Primary Color	Secondary Color		gravel sand silt clay	v. fine fine medium coarse v. coarse granules pebbles cobble		
155						5Y 4/3						
												partially mottled med-bedded sandy clay
-175						5Y 4/3 5Y 4/2 5Y 6/2						
160												massive disturbed clayey sand, mostly fine-med sand, up to coarse grains massive clayey sand, fine to coarse grains, few granules massive (?) silty fine subangular sand; dry core section

Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Re

Sorting

Munsell Color
Color Secondary

Samples

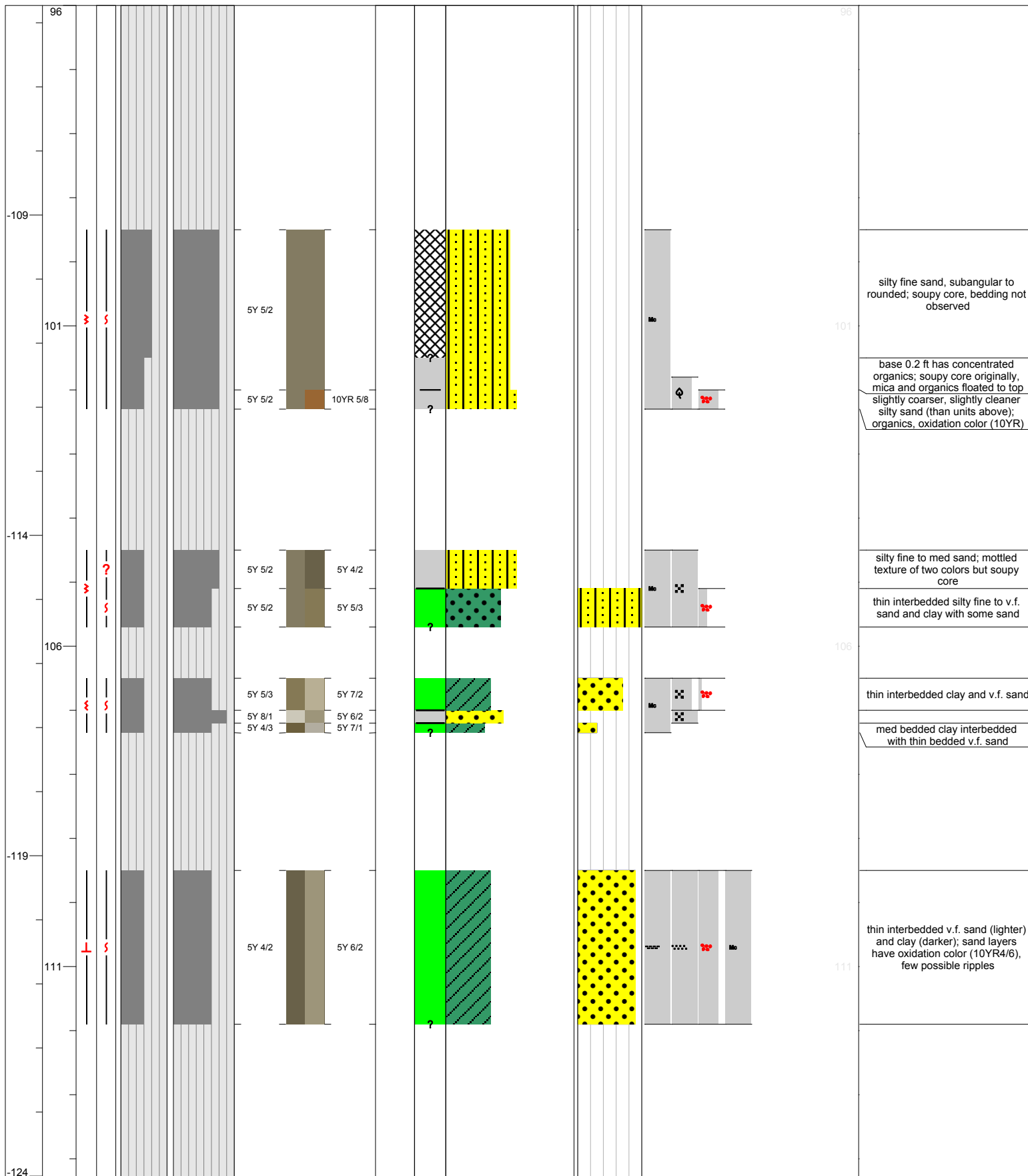
Bedding/Contacts

[illegible]

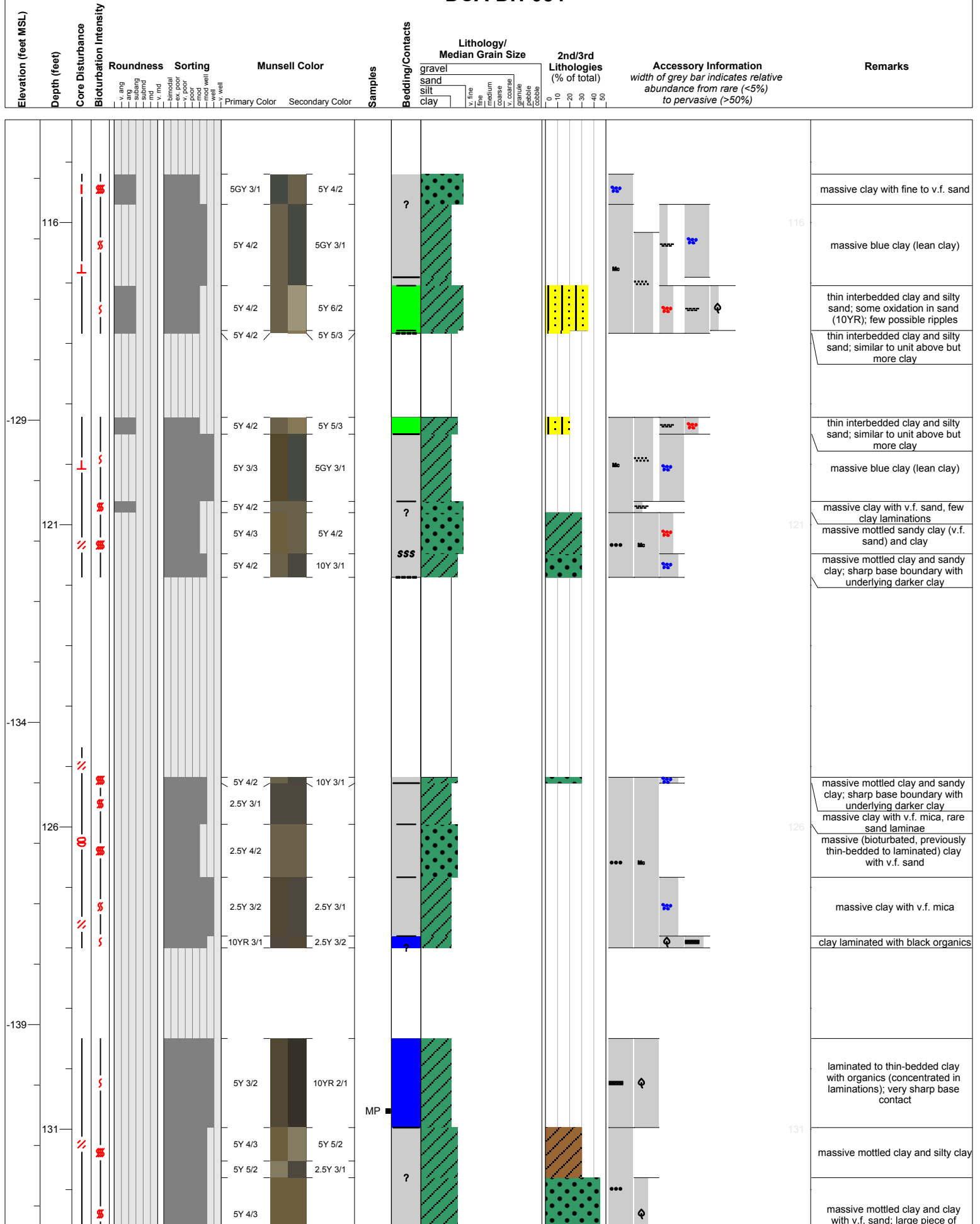
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

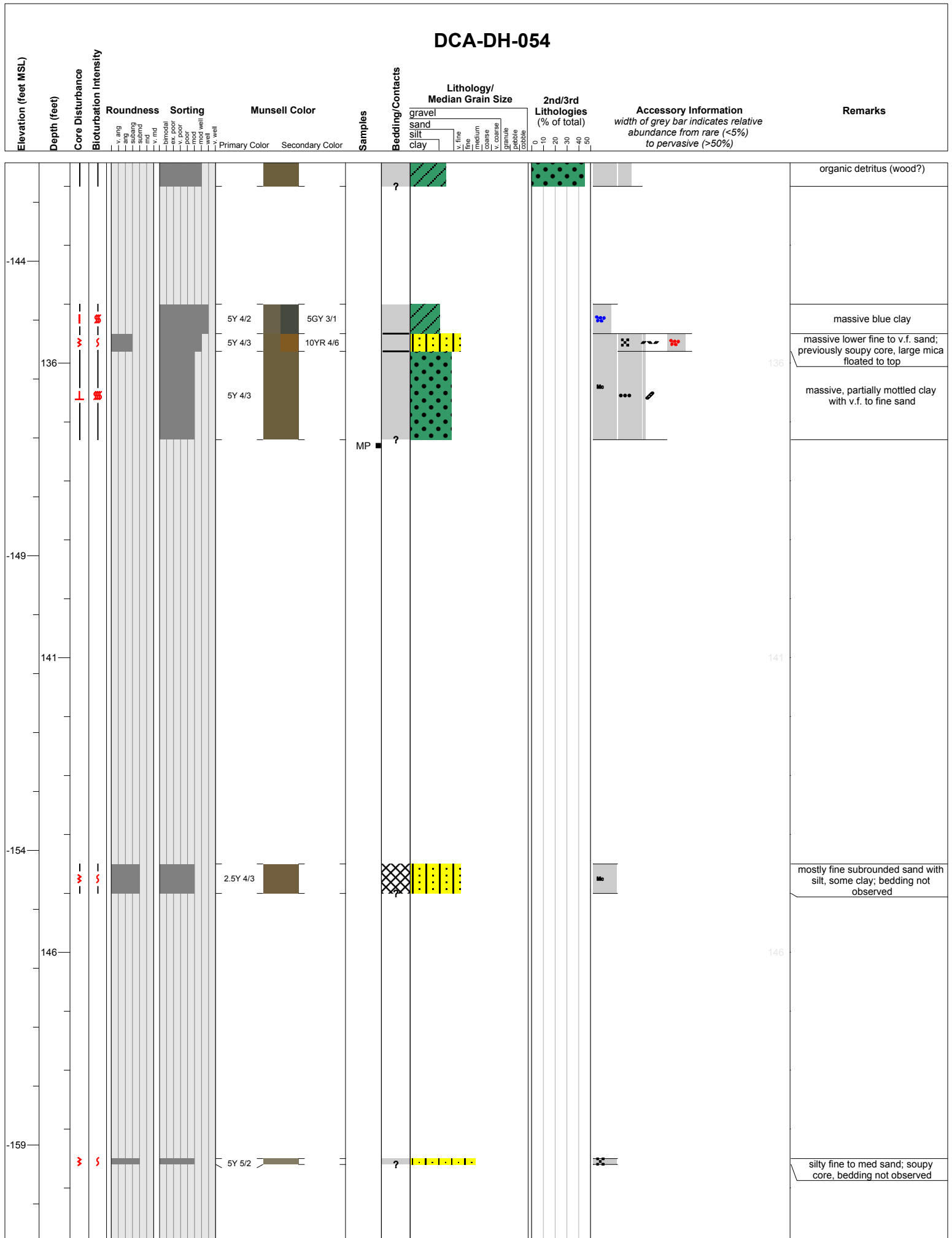
Remarks



DCA-DH-054



DCA-DH-054



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Re

Sorting

Munsell Color

Samples

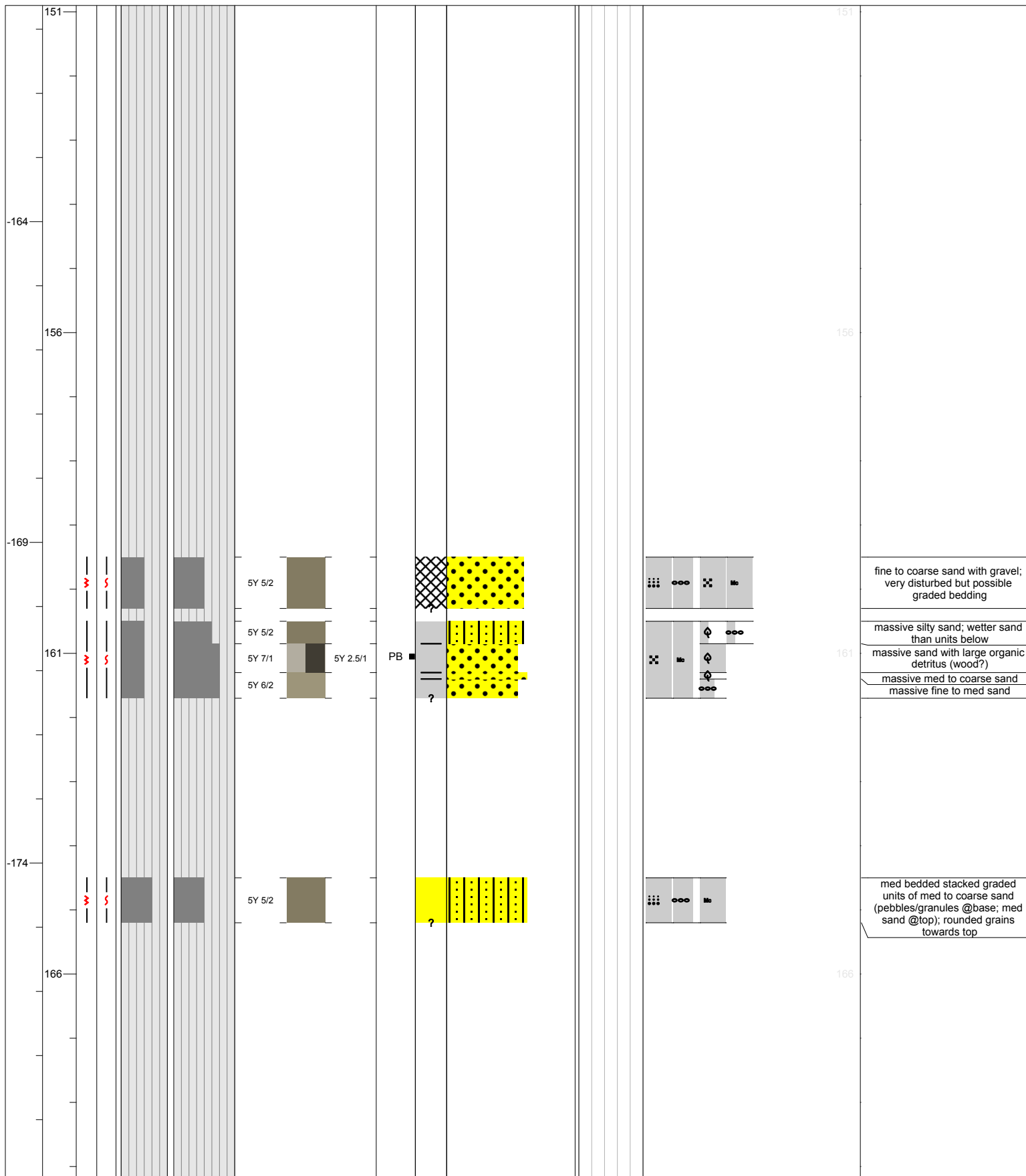
Bedding/Contacts

Lithology/
Median Grain Size

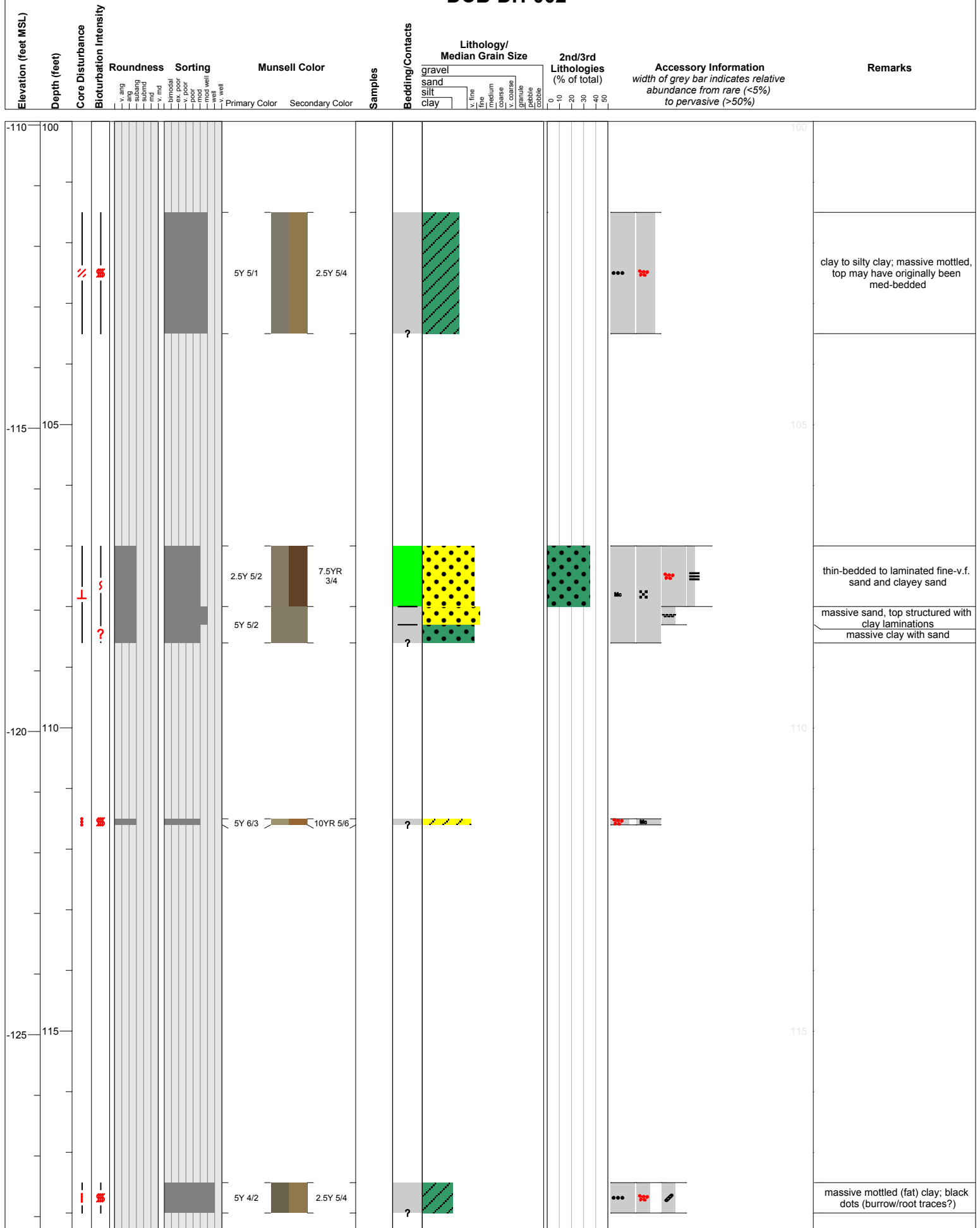
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



DCB-DH-002



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Re

Sorting

Munsell Color

Primary Color Secondary Color

Samples

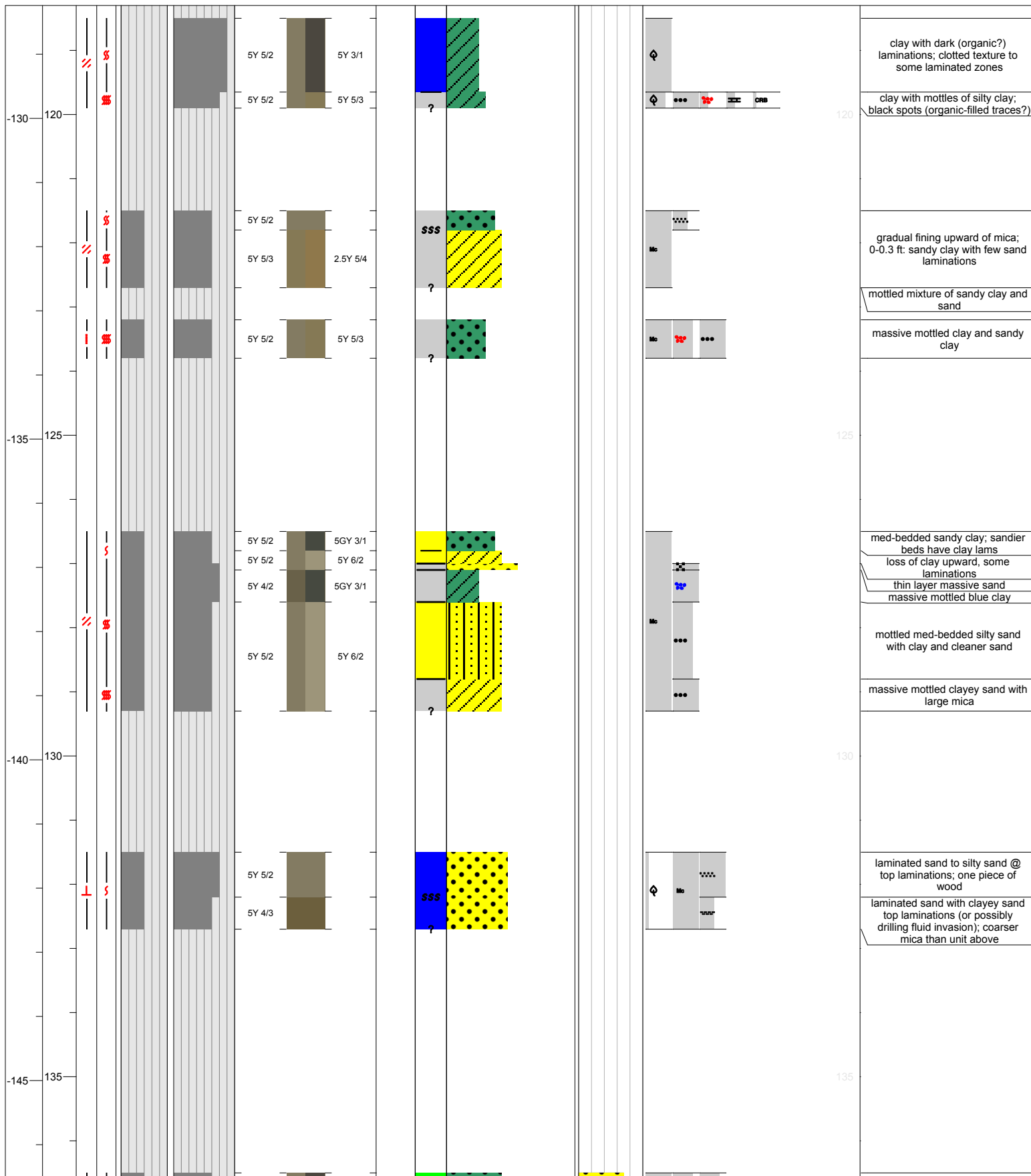
Bedding/Contacts

**Lithology/
Median Grain Size**

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

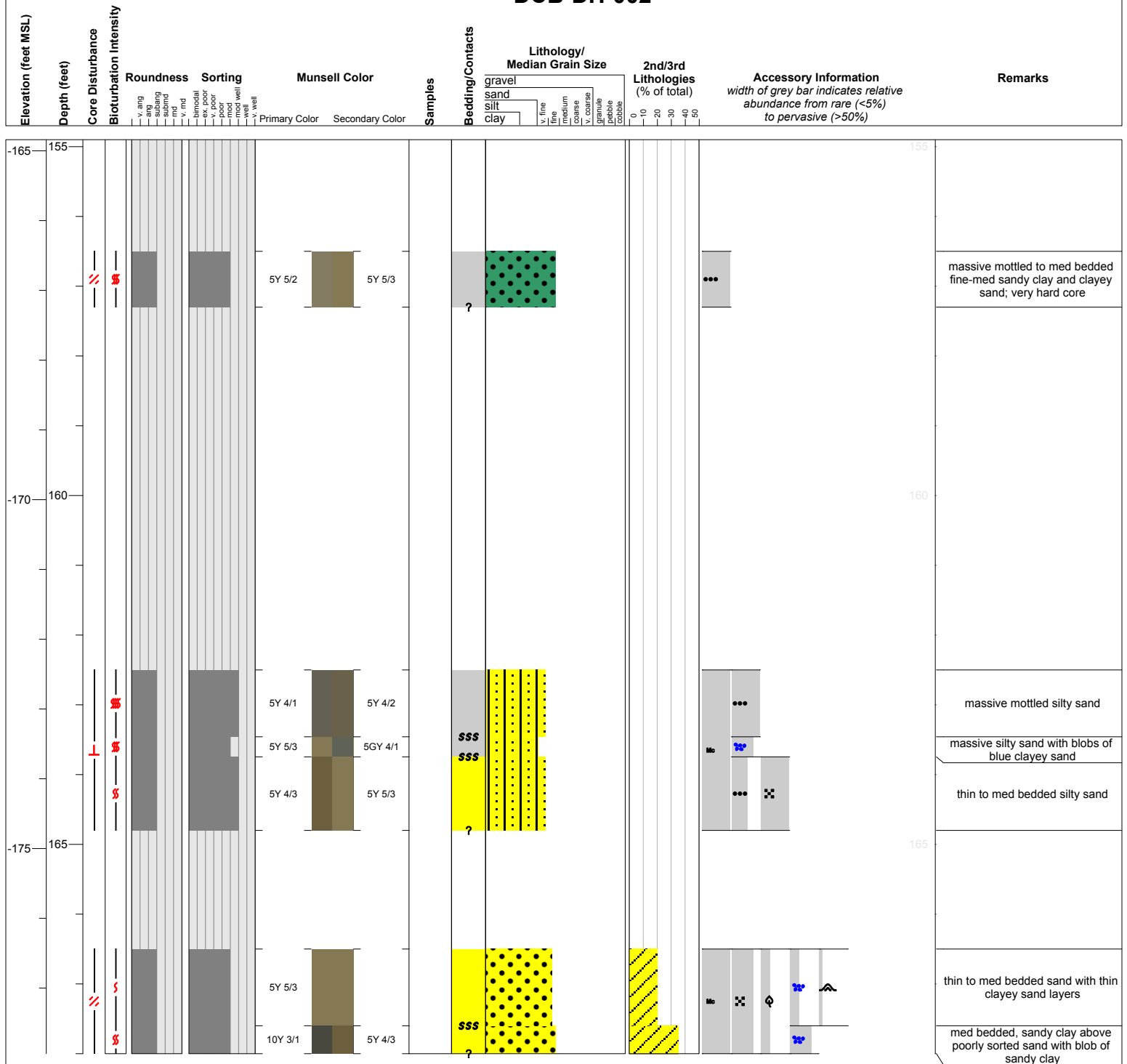
Remarks



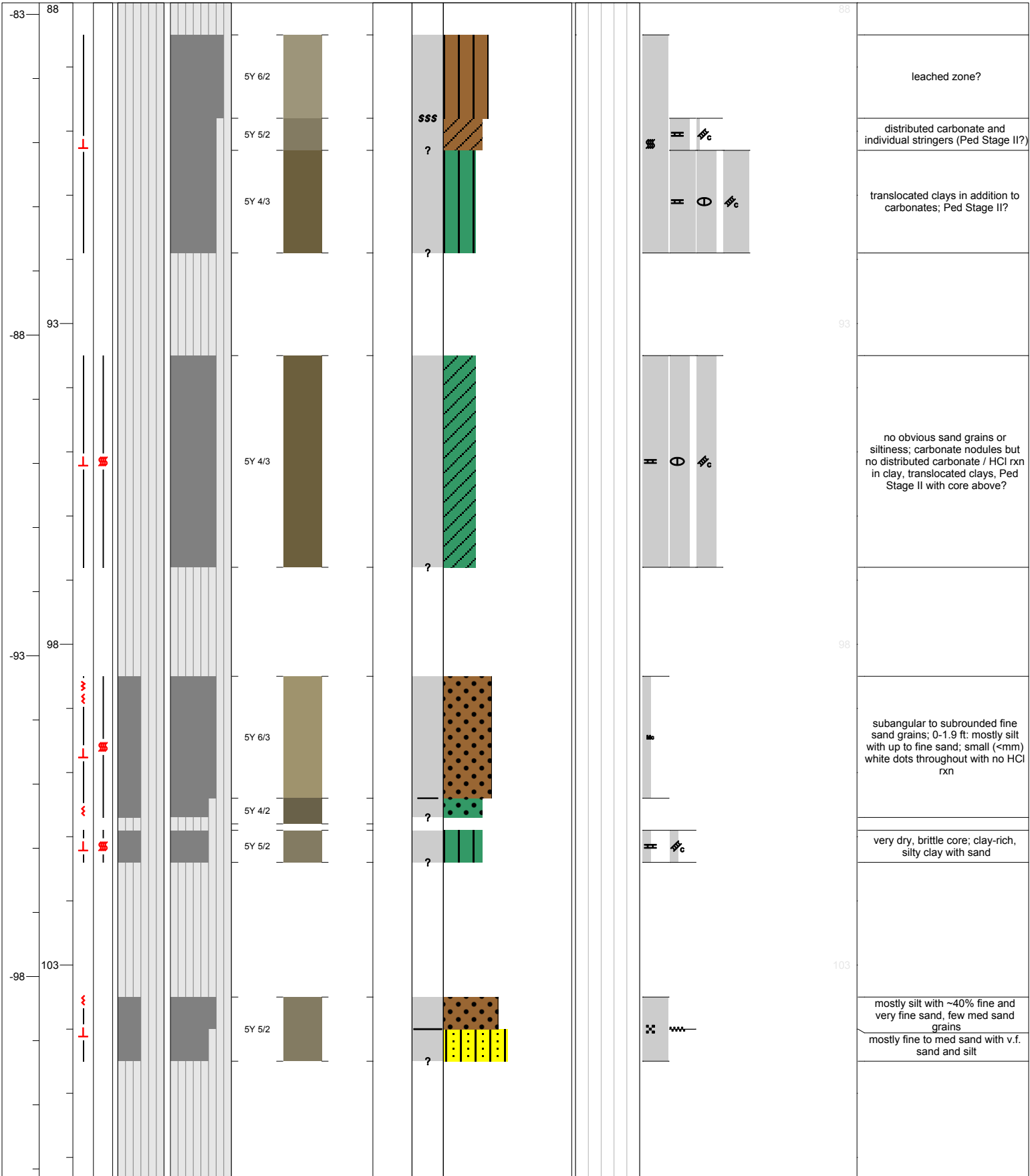
DCB-DH-002

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang subang md v. md bimodal poor v. poor mod well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse fine medium coarse v. coarse fine medium coarse v. coarse	0 10 20 30 40 50		
						5Y 5/2		5Y 3/1						thin-bedded sand and sandy clay with organic laminations; mica largest and most concentrated in organic-rich zones
						5Y 5/2		5Y 6/2						massive mottled clayey sand to sandy clay
						5Y 4/1								
						5Y 4/2								massive fining upward clayey sand (upward increase in clay content)
						5Y 4/1		5Y 5/3						disturbed mixture of silty sand and clayey sand
						5Y 5/3								thin-bedded mottled clayey sand (variations in sand:clay)
						5Y 4/3								fine to med sand with silt; few laminations
						5Y 5/2		5Y 5/3						massive mottled silty to clayey sand; may have originally been thin to med bedded
						5Y 5/3								massive to faintly laminated v.f. sand with silt
						5Y 6/3								massive (fractured) v.f. sand and silt
						5Y 4/3								massive silty sand with few laminations
						5Y 5/4								
						5Y 4/3								med bedded silty sand (fine-med)

DCB-DH-002



DCE-DH-003												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color Primary Color Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang.					gravel			
				ang.					sand			
				subang.					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod. poor					granule			
				nod					fine cobble			
				well					coarse cobble			
				v. well								



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Rou

v. ang

Sorting

Munsell Color
y Color Secondary

Samples

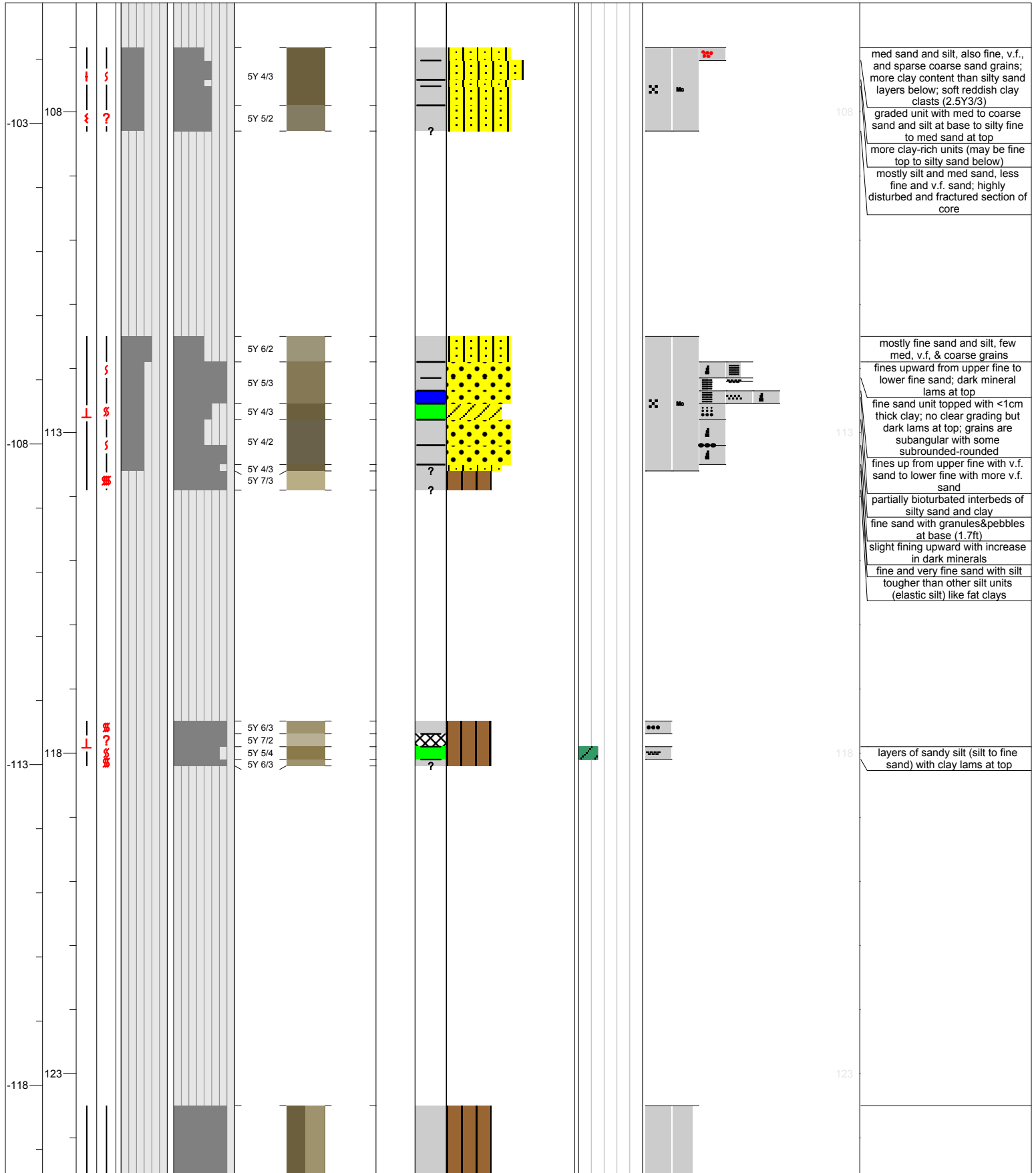
Bedding/Contacts

Lithology/ Median Grain Size	
level	
nd	
y	v. fine fine medium coarse v. coarse granule

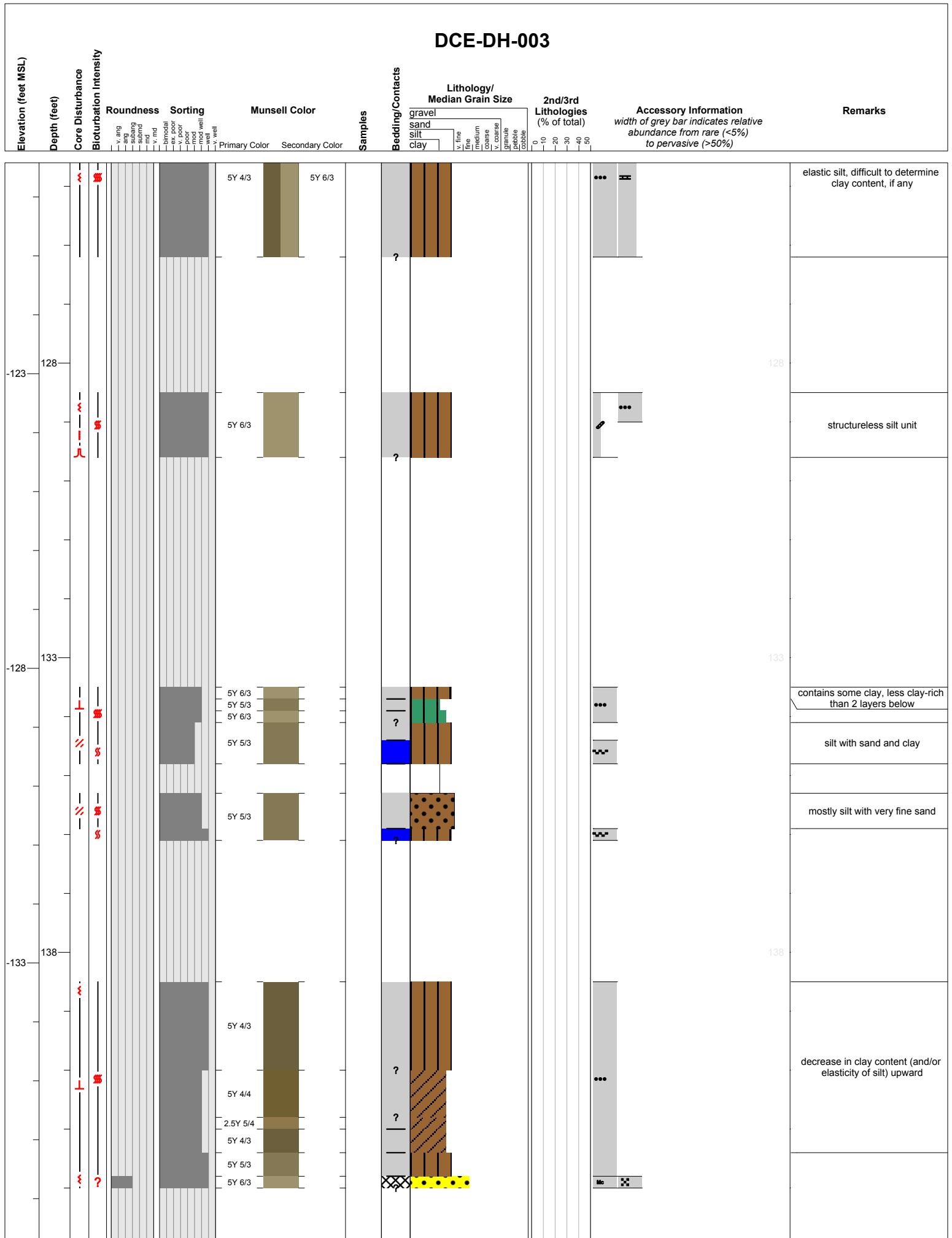
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



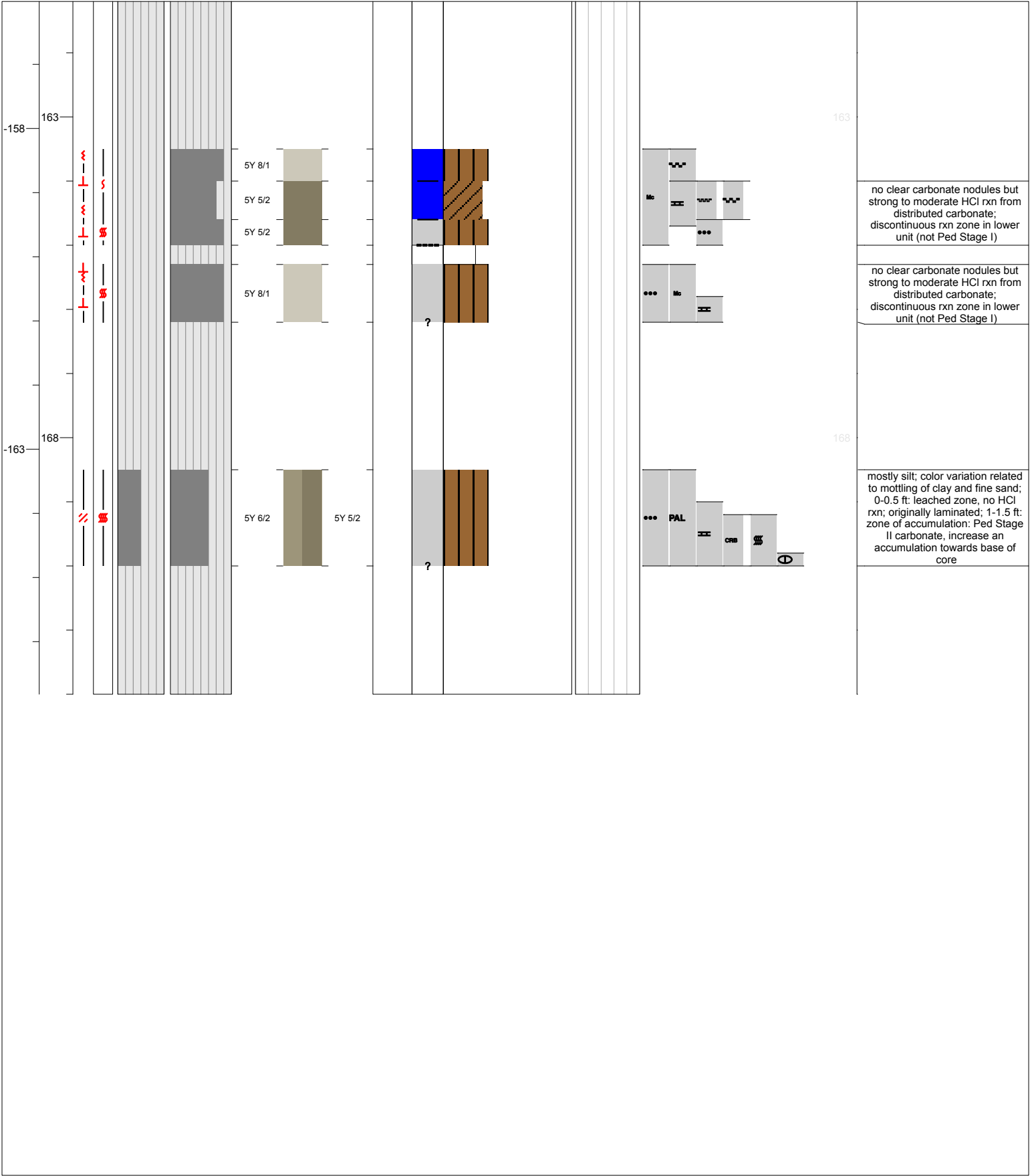
DCE-DH-003



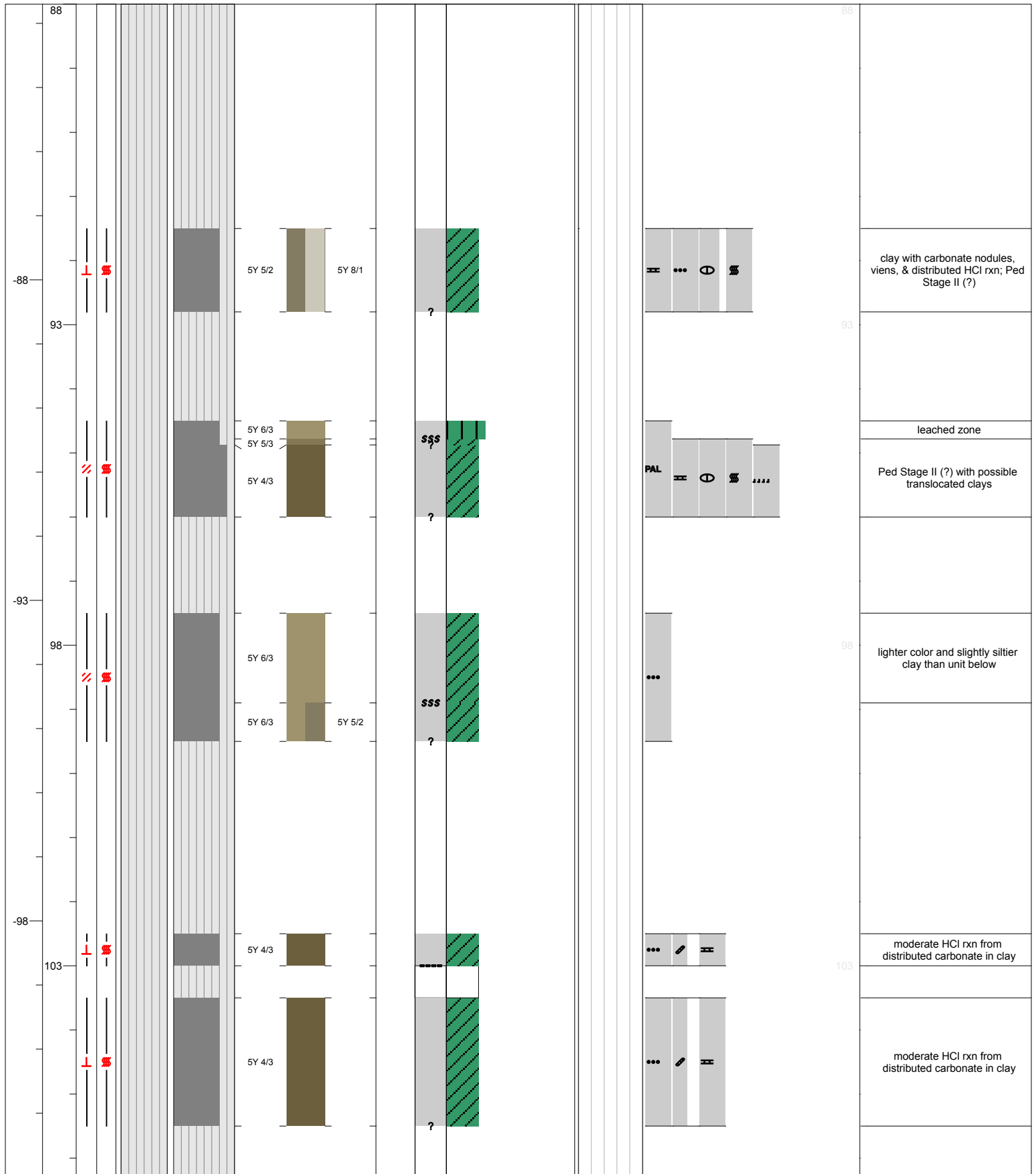
DCE-DH-003



DCE-DH-003											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



DCE-DH-004												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang		Primary Color			gravel			
				ang					sand			
				subang					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					fine			
				well					medium			
				v. well					coarse			
									fine			
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									fine</			



Elevation (feet MSL)

Depth (feet)

Core Disturbance	Bioturbation Intensity
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Rou

v. ang

Sorting

Munsell Color

Primary Color	Secondary Color
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Samples

Bedding/Contacts

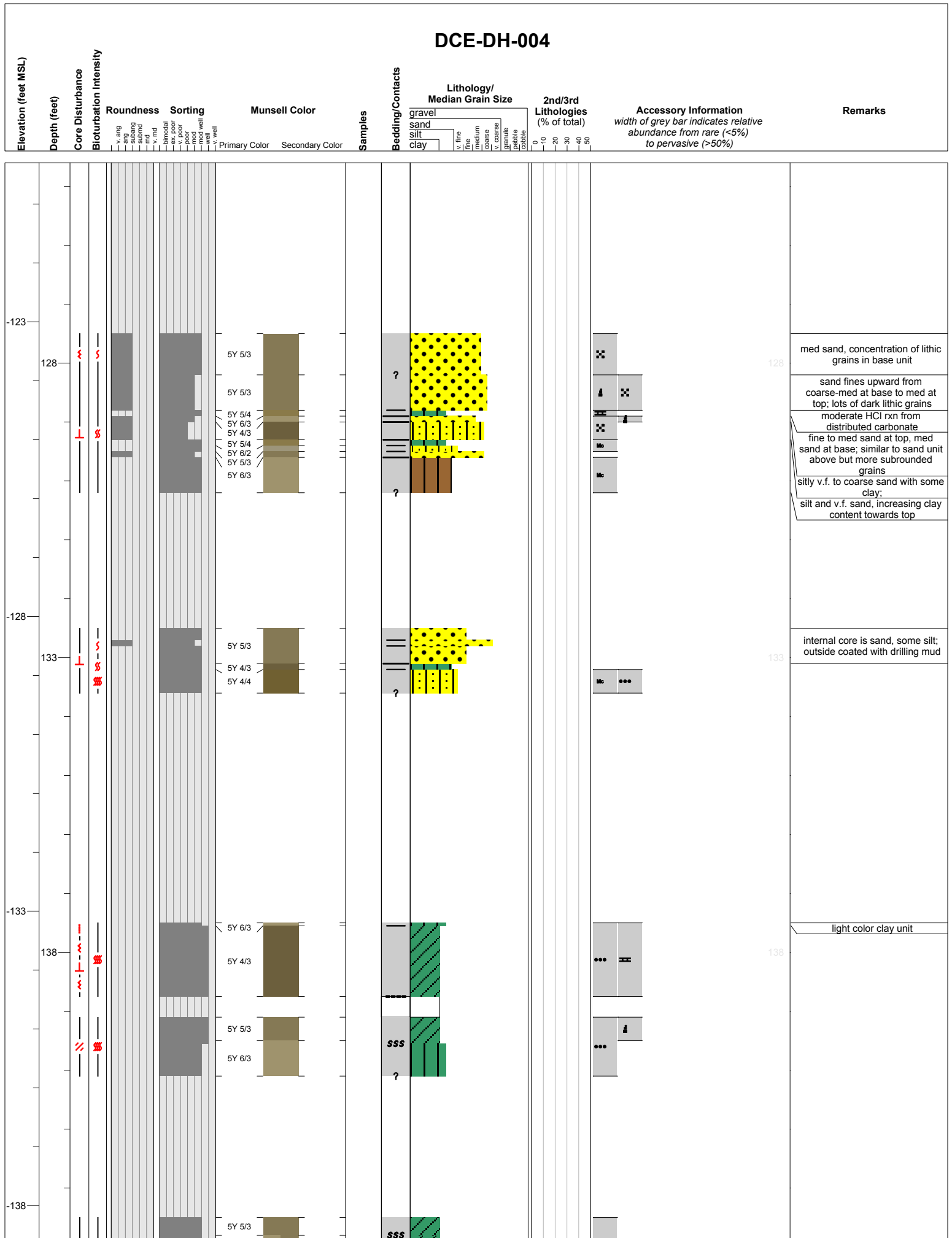
Lithology/
Median Grain Size

2nd/3rd
Lithologies
(% of total)

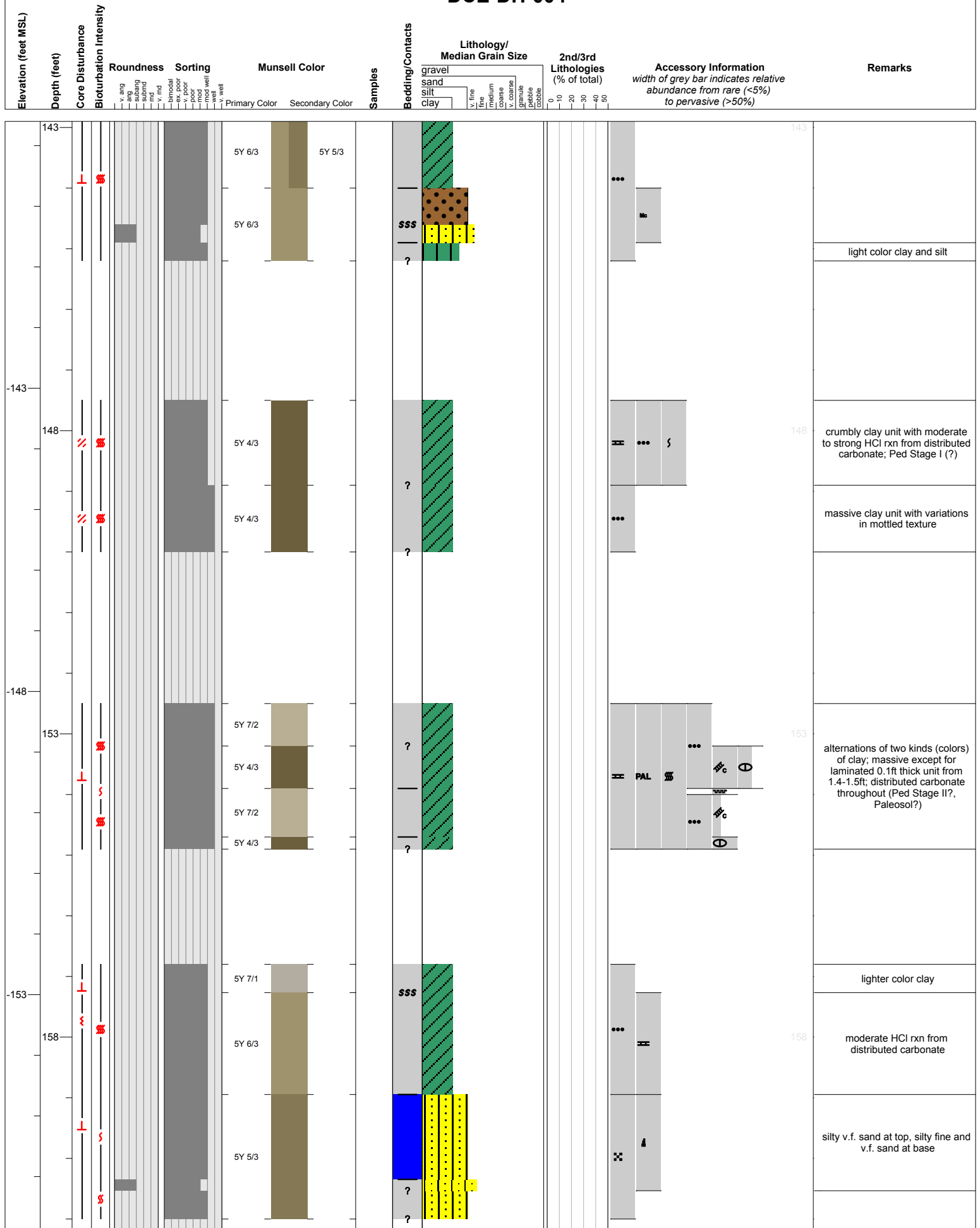
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

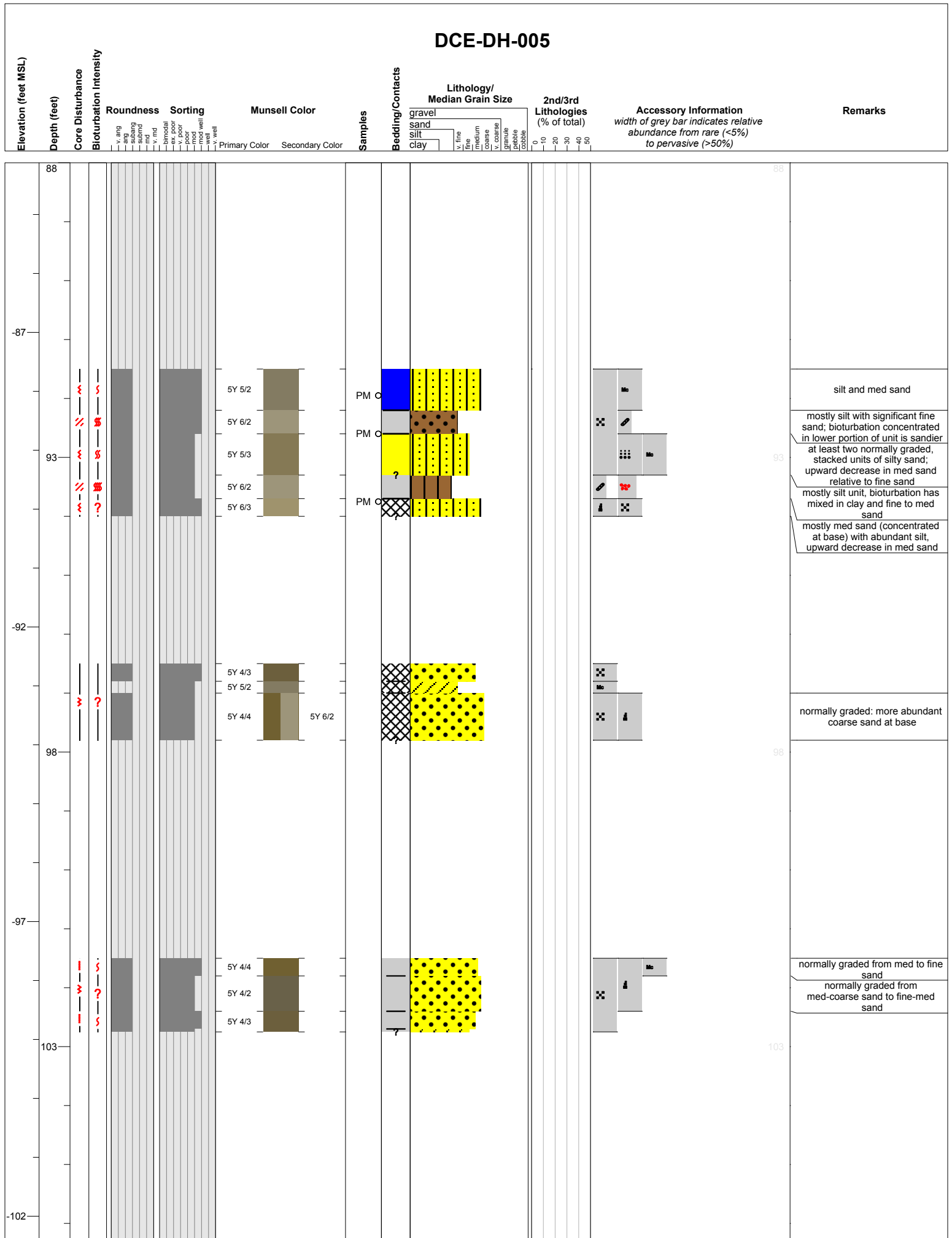
DCE-DH-004



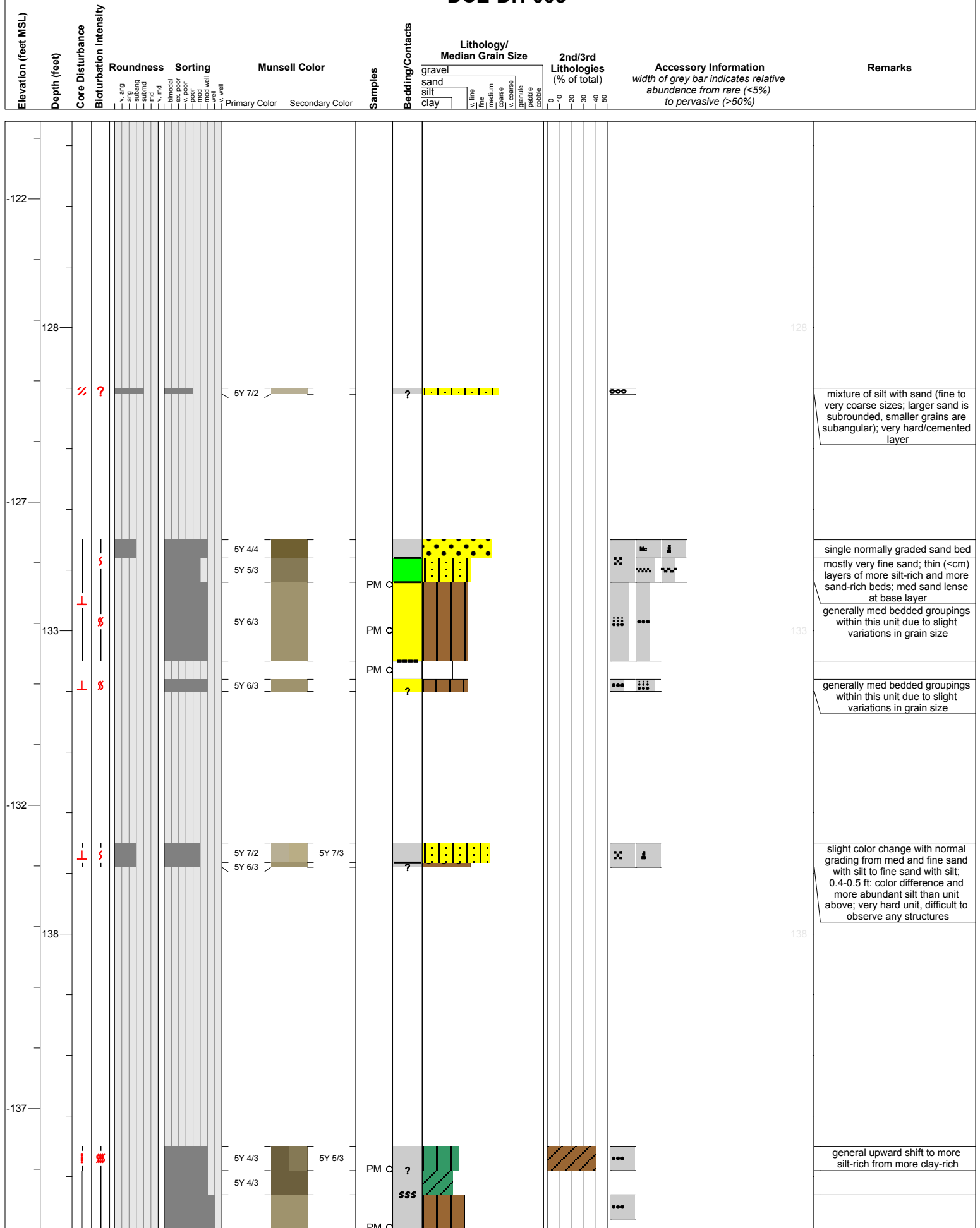
DCE-DH-004



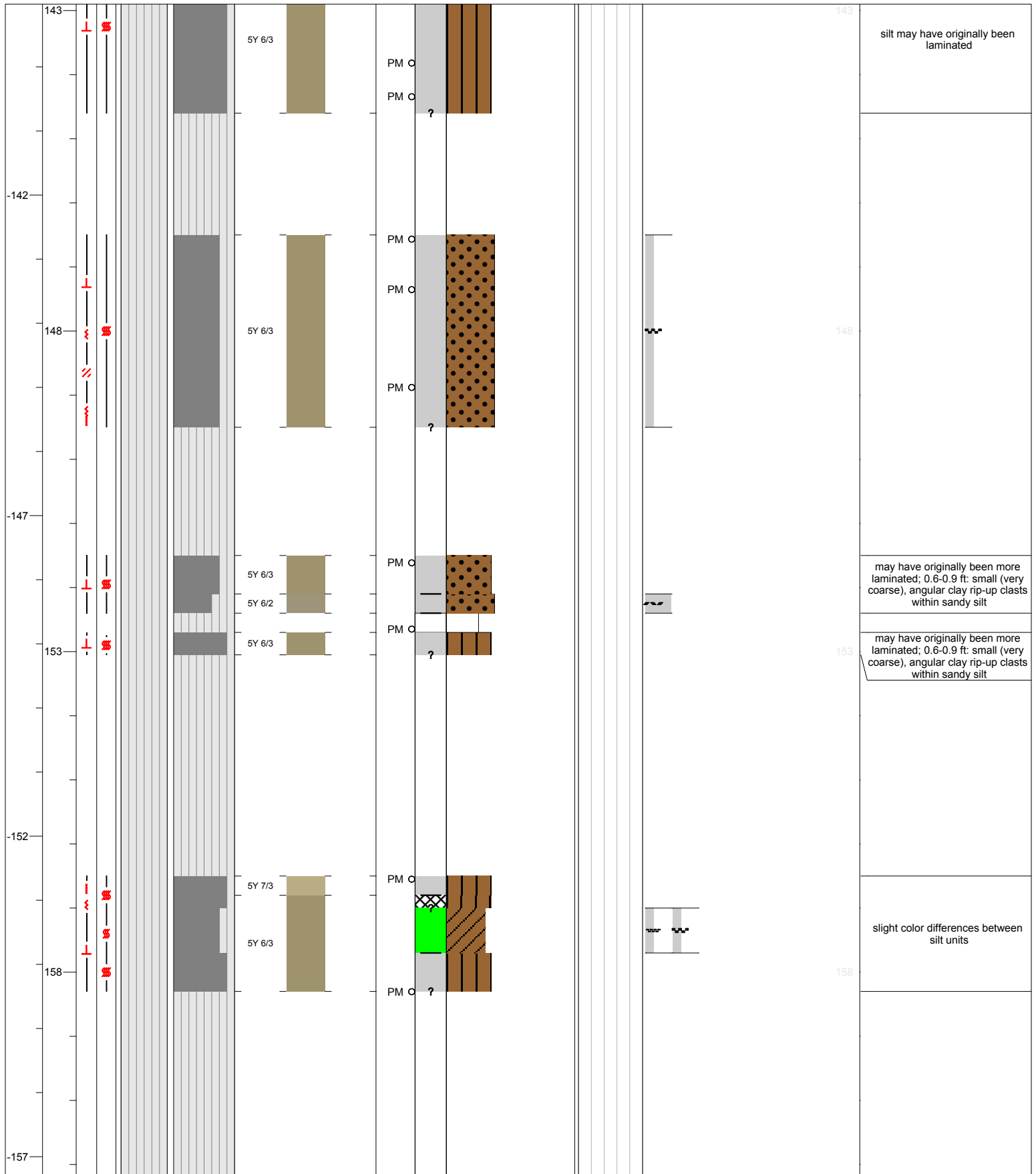
DCE-DH-005



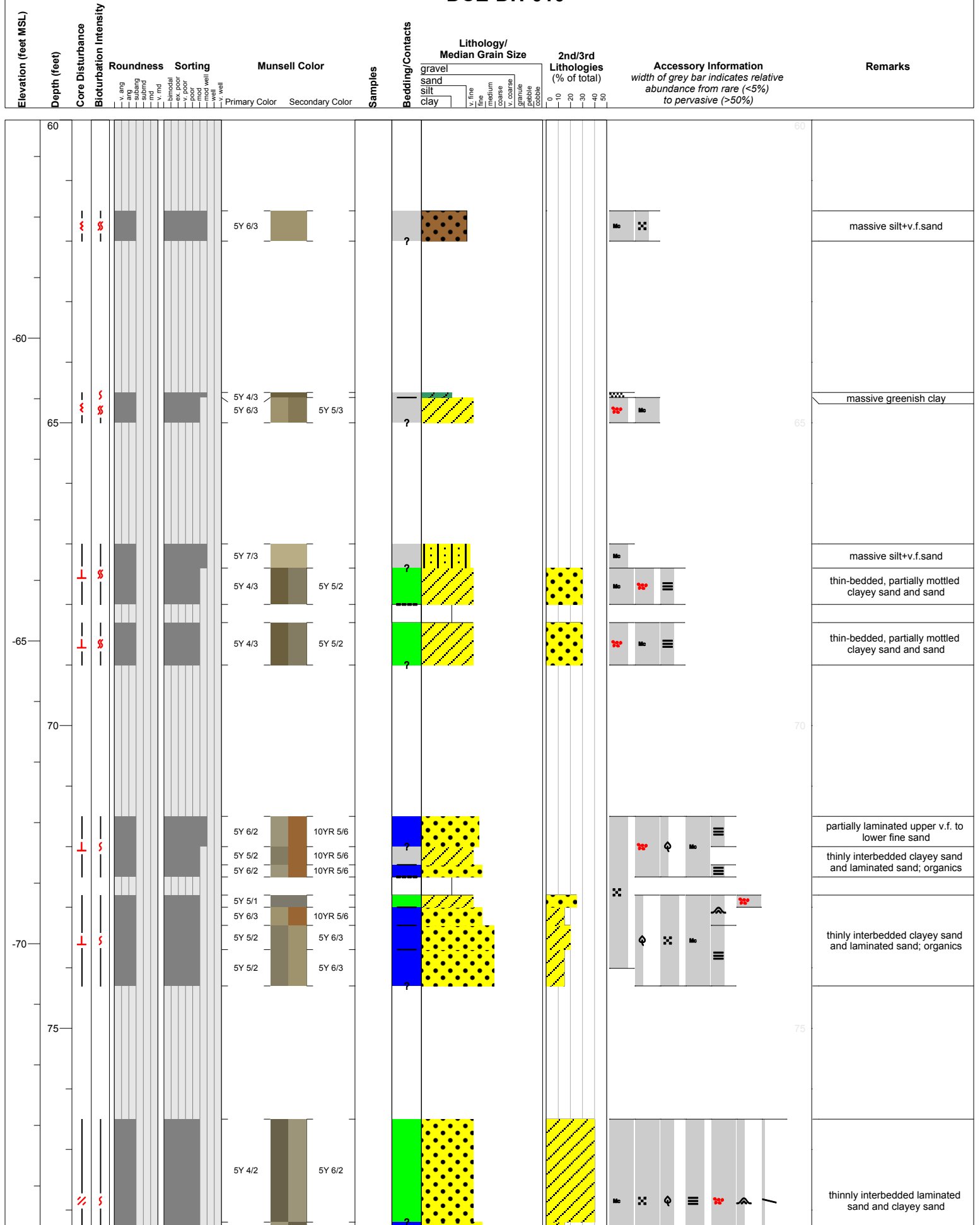
DCE-DH-005



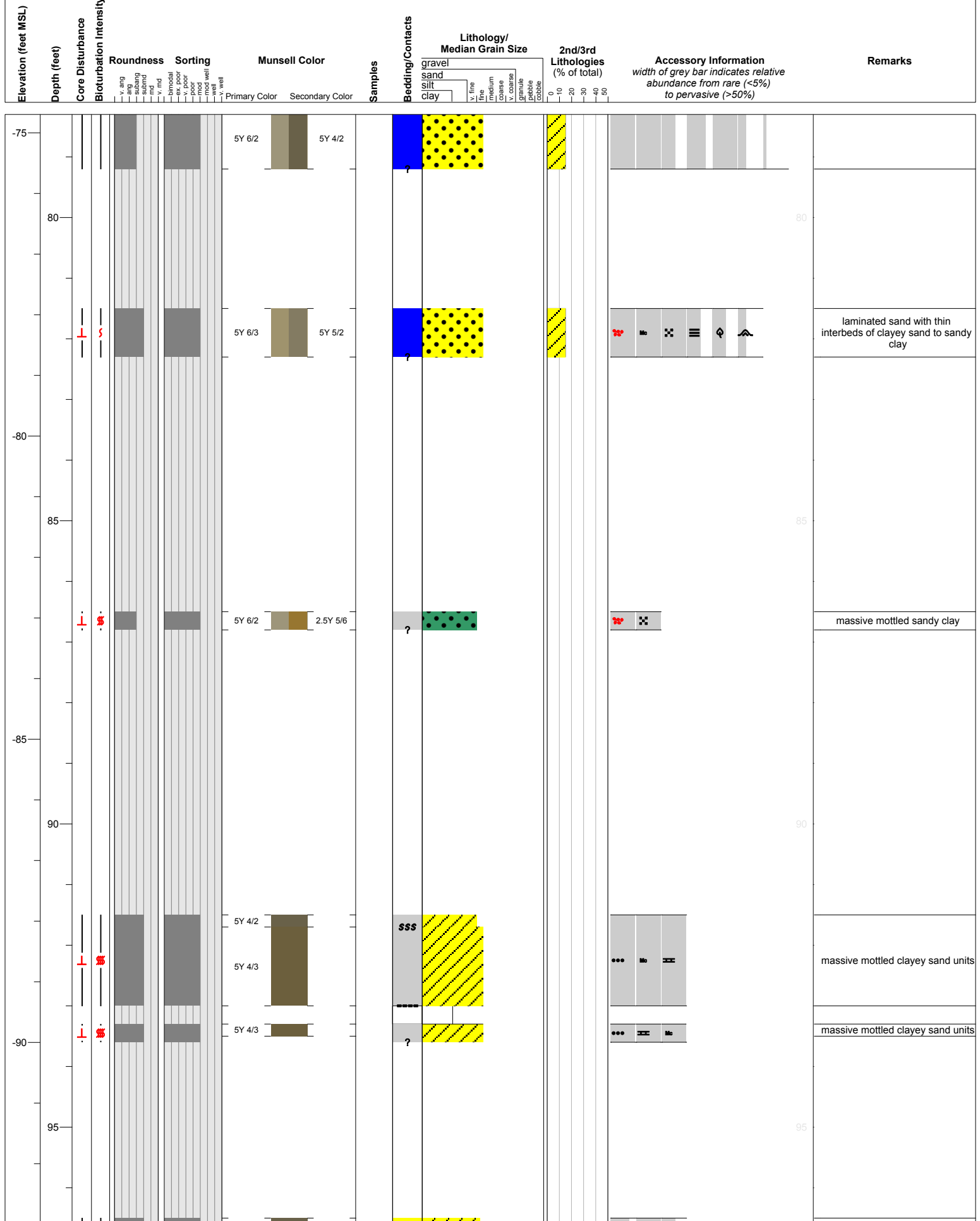
DCE-DH-005												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang	ex. poor	Primary Color			gravel			
				ang	poor	Secondary Color			sand			
				subang	mod				silt			
				fine	poor				clay			
				md	mod				v. fine			
				v. md	well				fine			
				binodal	v. well				medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					fine			
				well					medium			
				v. well					coarse			
									fine			
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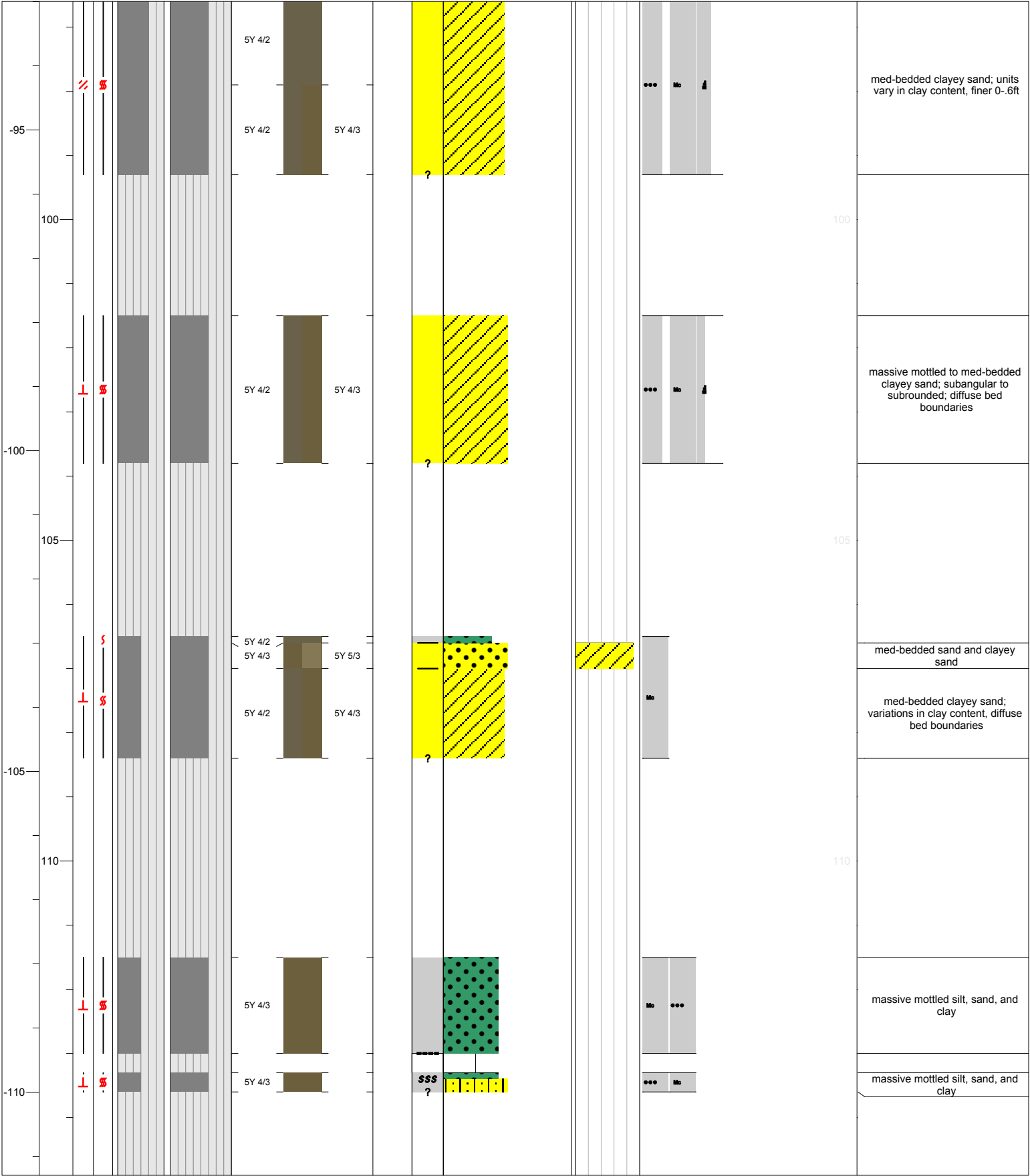
DCE-DH-010



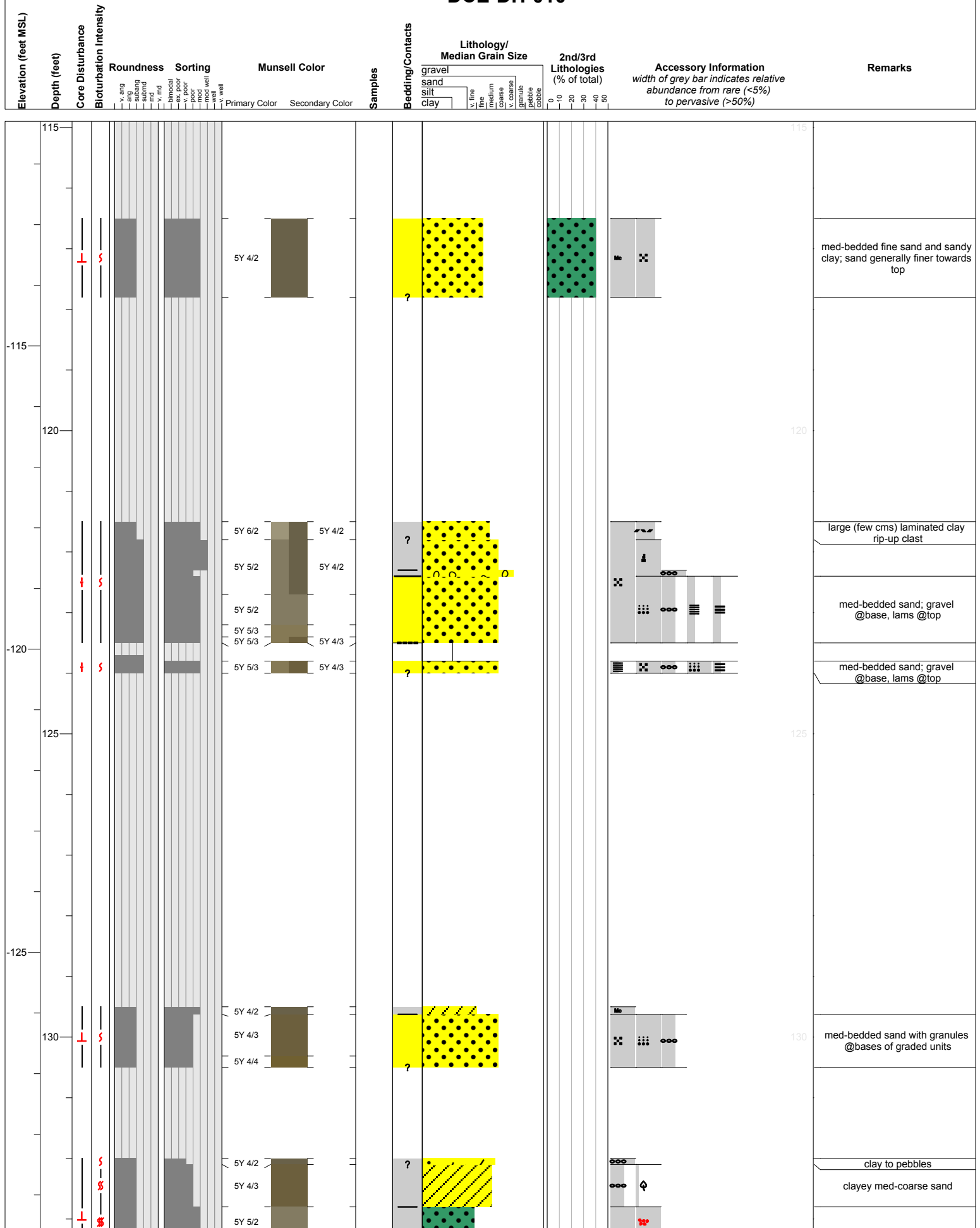
DCE-DH-010



DCE-DH-010											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



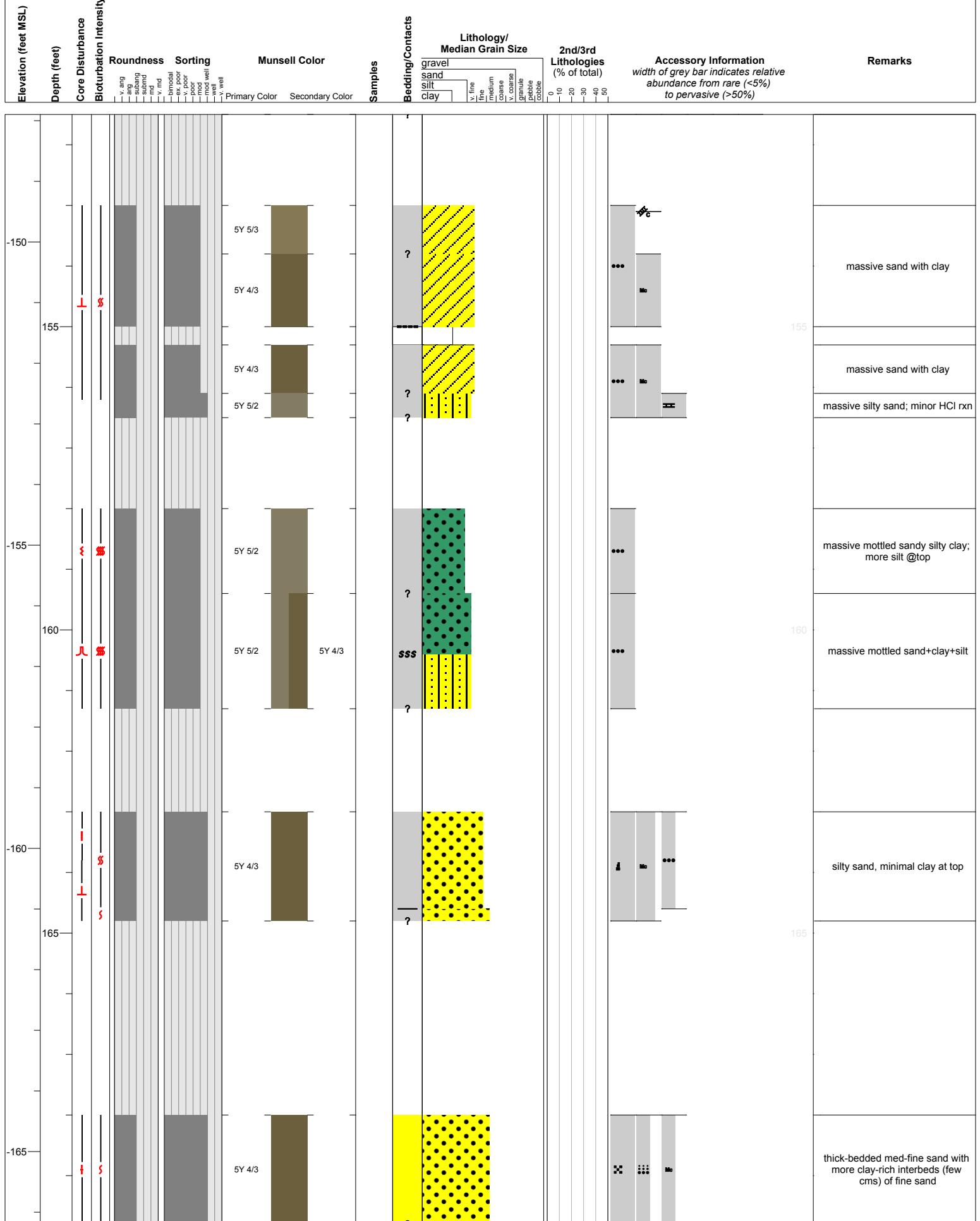
DCE-DH-010



DCE-DH-010



DCE-DH-010



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbation Intensity

Ro

Sorting

Munsell Color
y Color Secondary

Samples

Bedding/Contacts

Lithology/ Median Grain Size	
level	
nd	
y	
	v. fine fine medium coarse v. coarse granule

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)

Remarks

Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

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Munsell Color

Primary Color Secondary Color

Samples

Bedding/Contacts

Lithology/
Median Grain Size

**2nd/3rd
Lithologies
(% of total)**

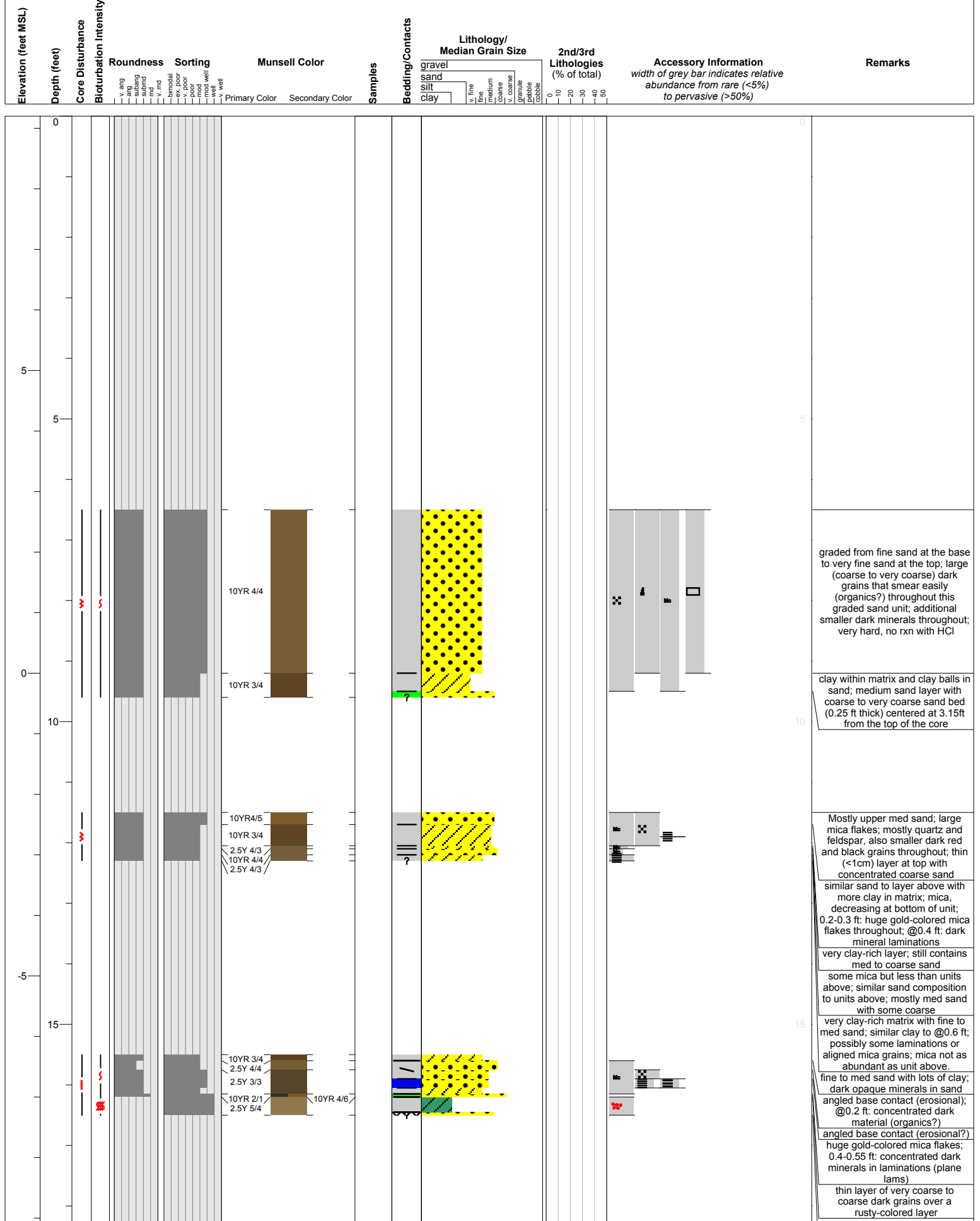
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

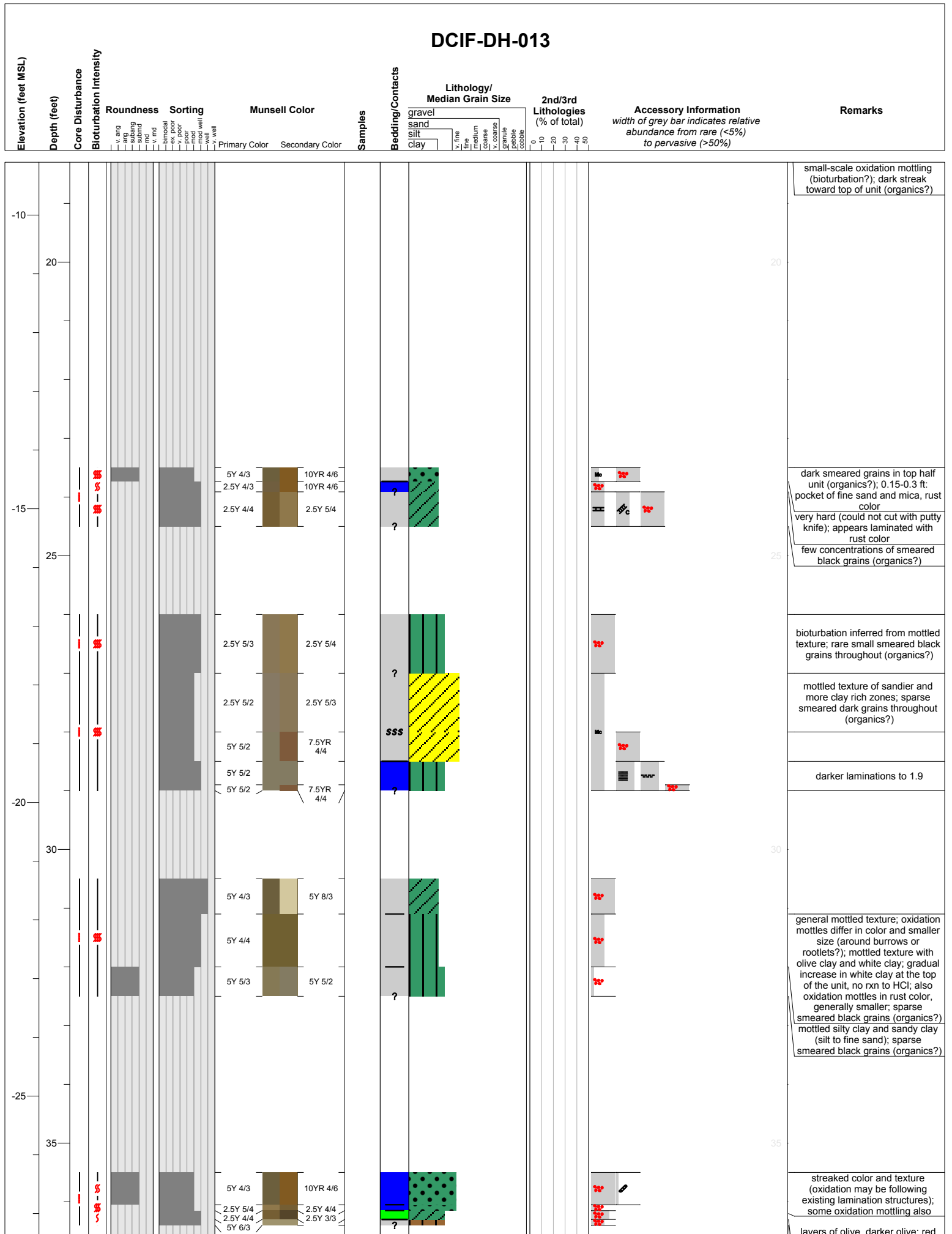
-205-

210-

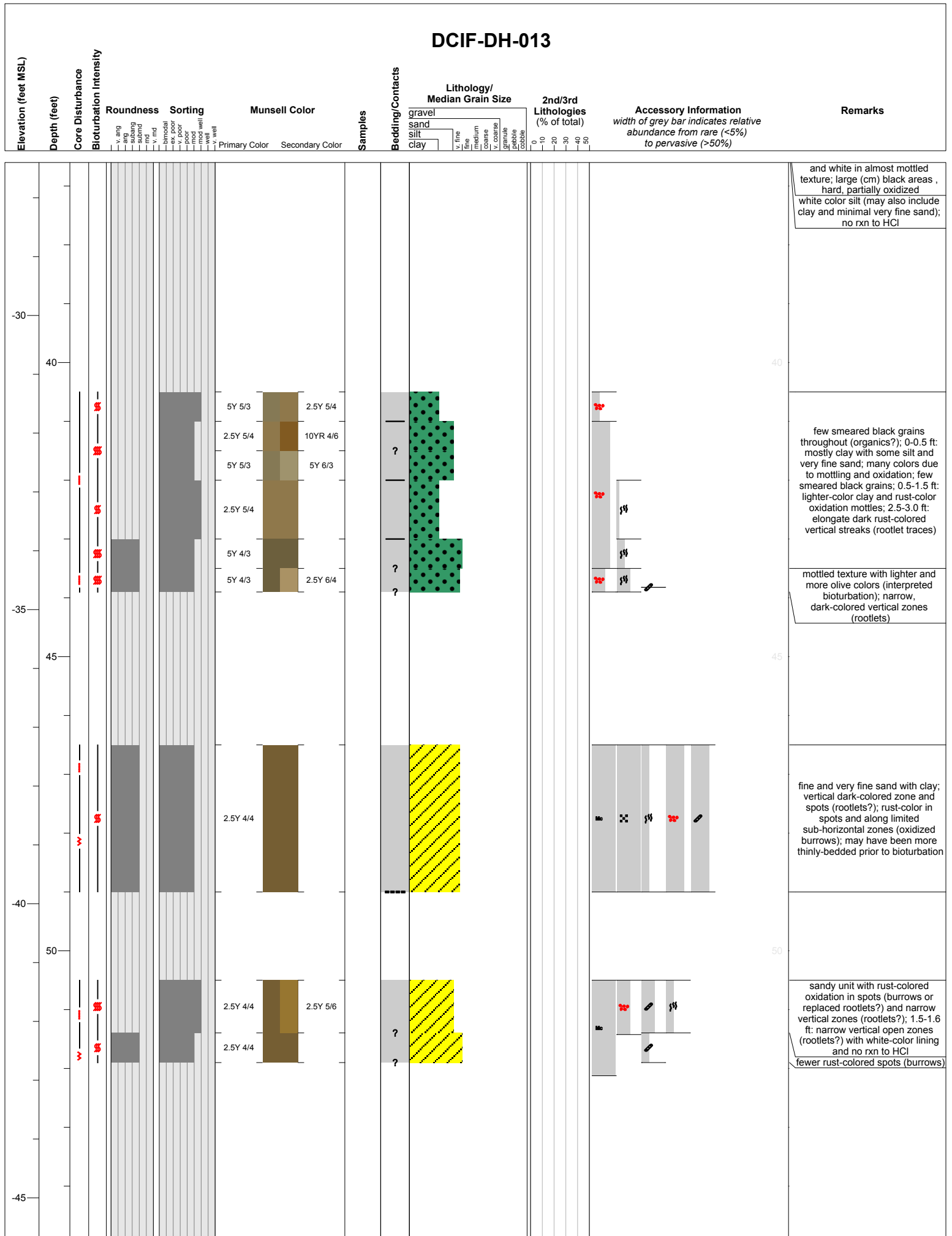
DCIF-DH-013



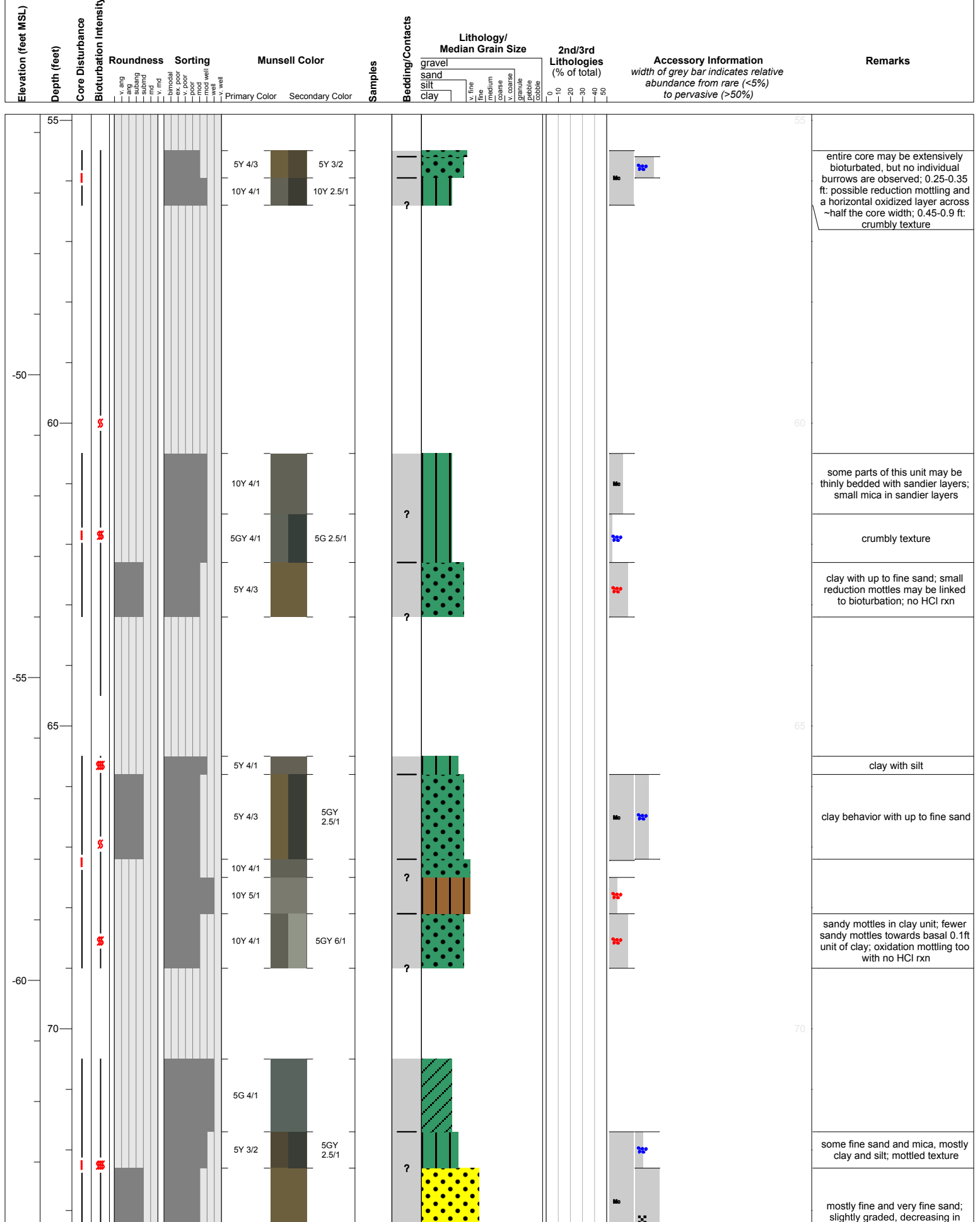
DCIF-DH-013



DCIF-DH-013



DCIF-DH-013



DCIF-DH-013

[illegible]

Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbation Intensity

Ro

Sorting

Munsell Color

Samples

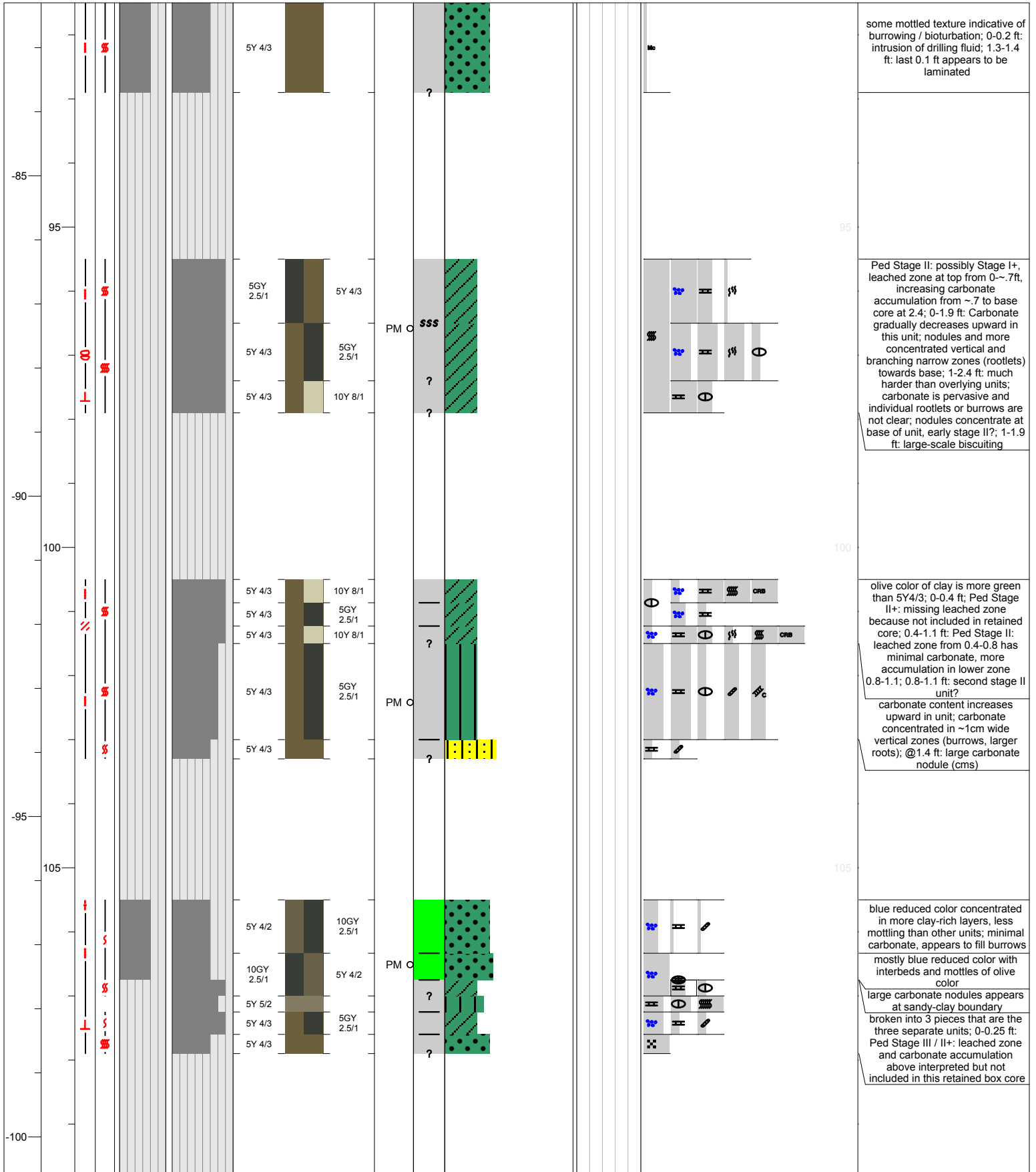
Bedding/Contacts

Lithology/ Median Grain Size	Level and
v. fine fine medium coarse v. coarse granule	

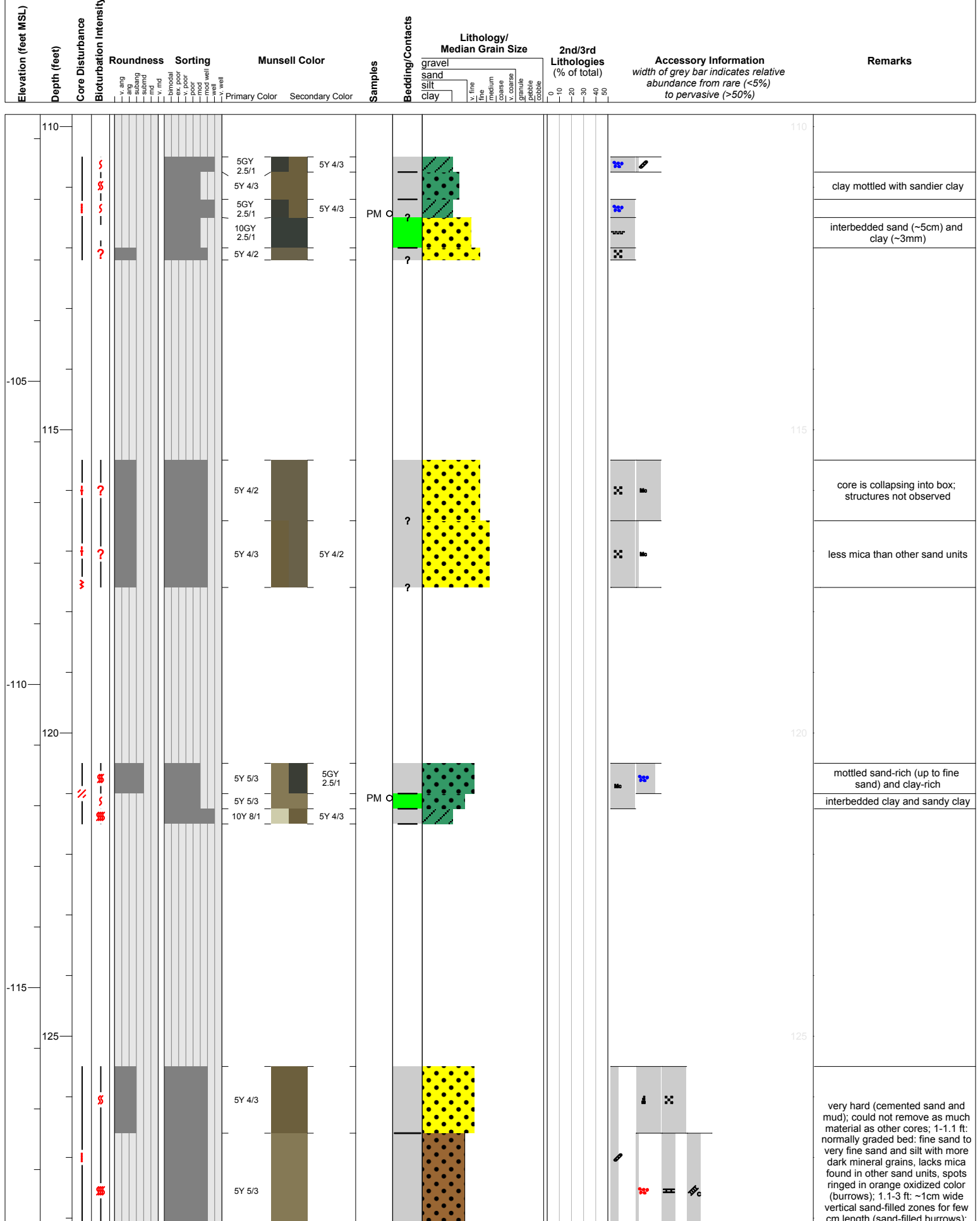
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

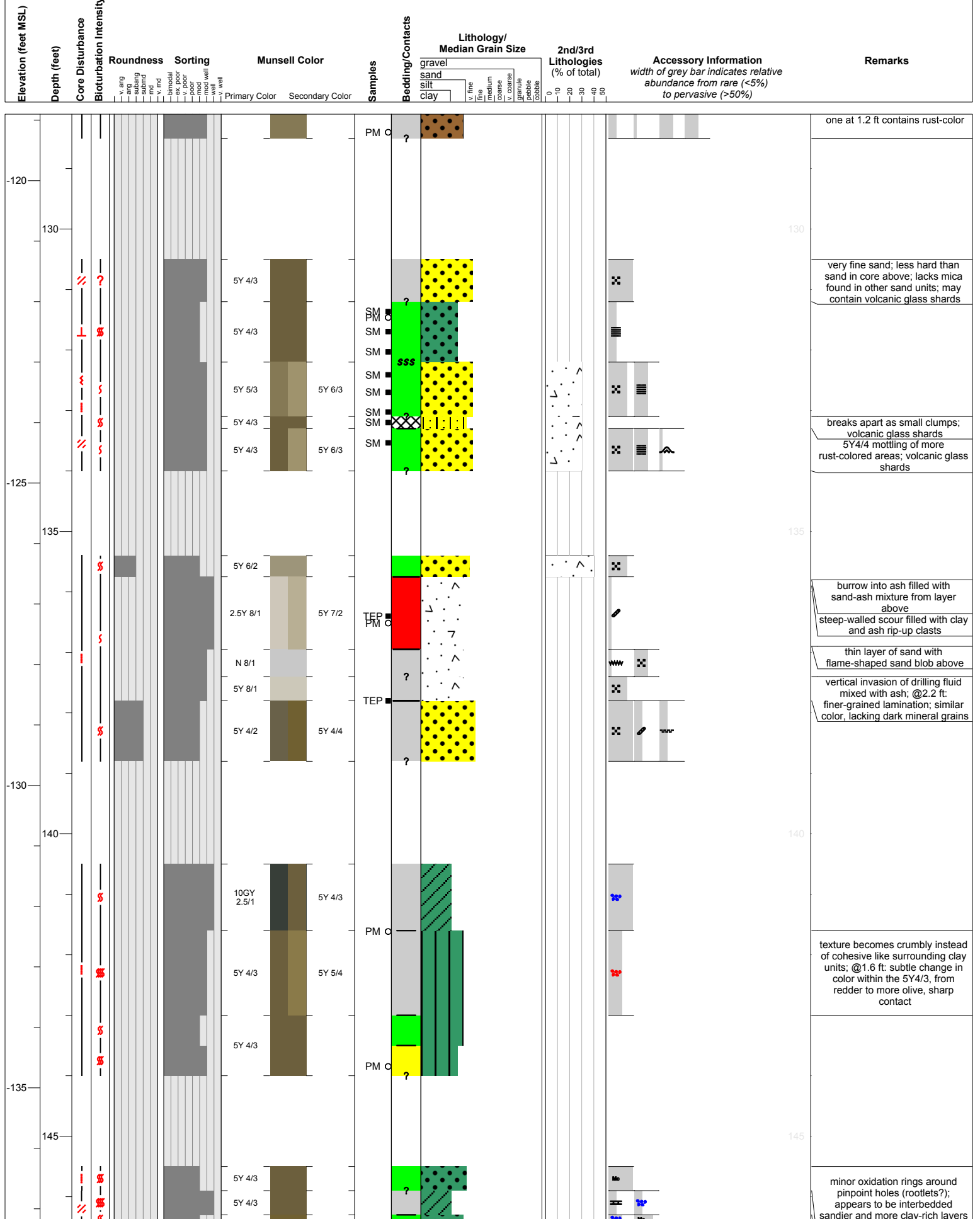
Remarks



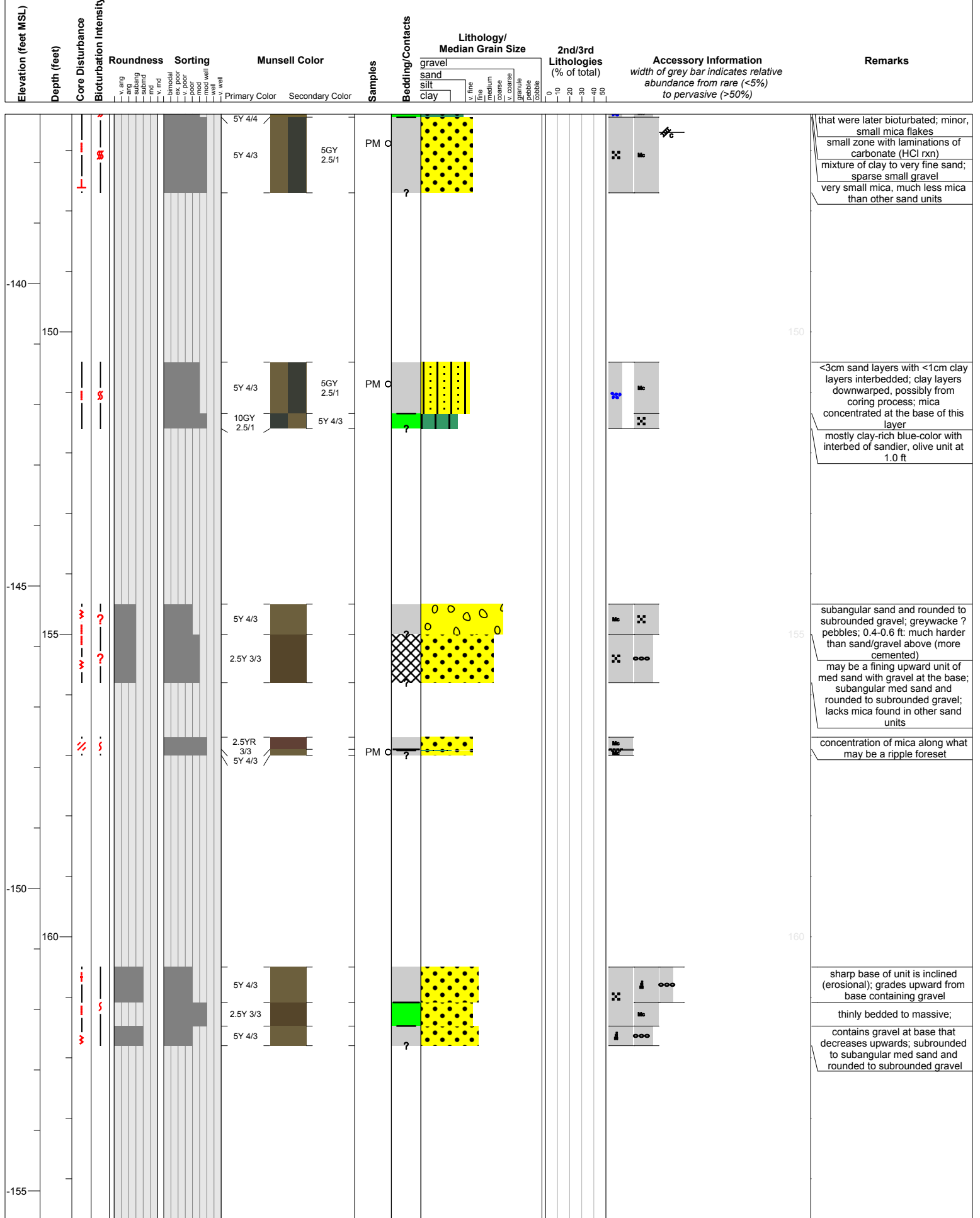
DCIF-DH-013



DCIF-DH-013



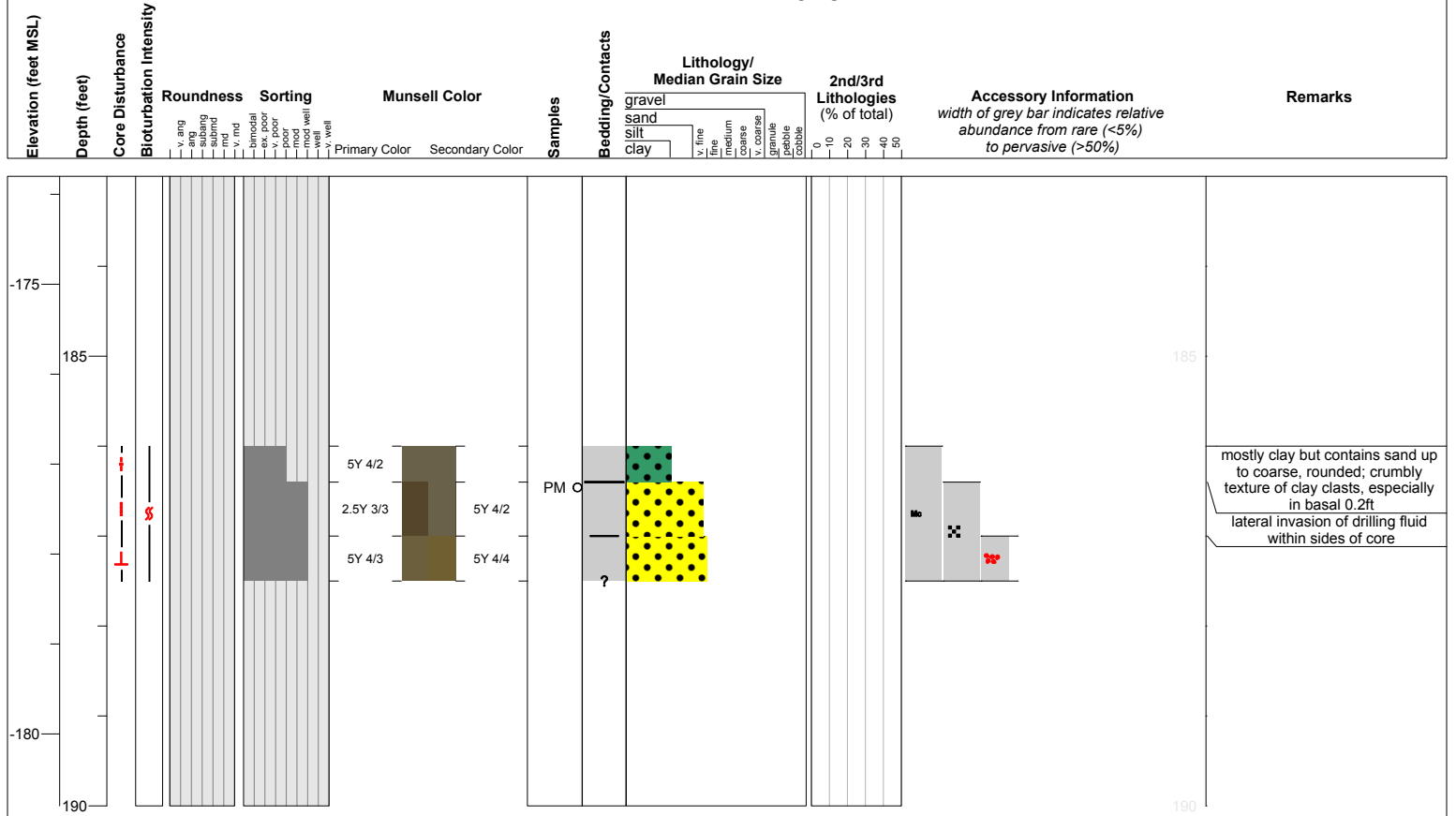
DCIF-DH-013



DCIF-DH-013

[illegible]

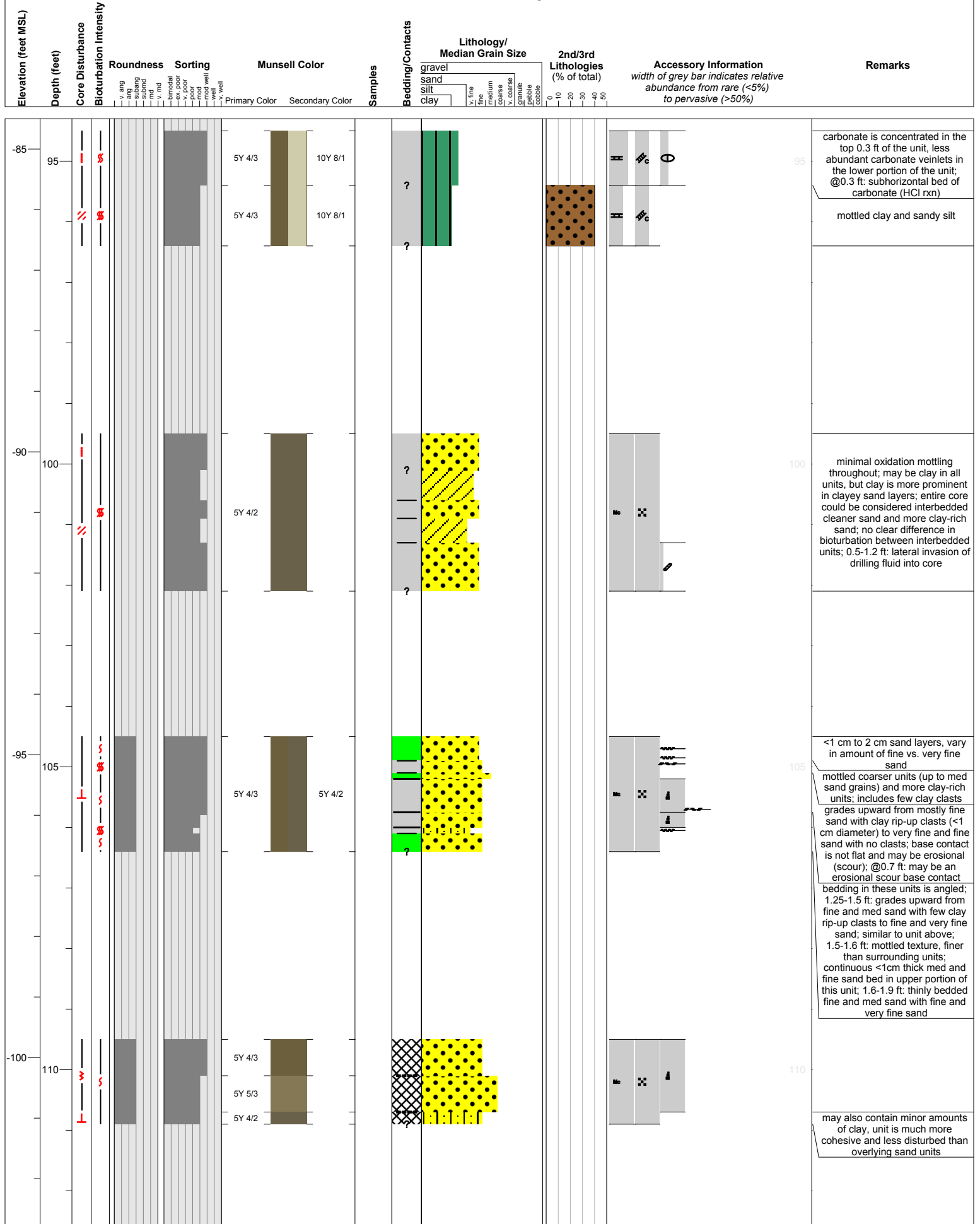
DCIF-DH-013



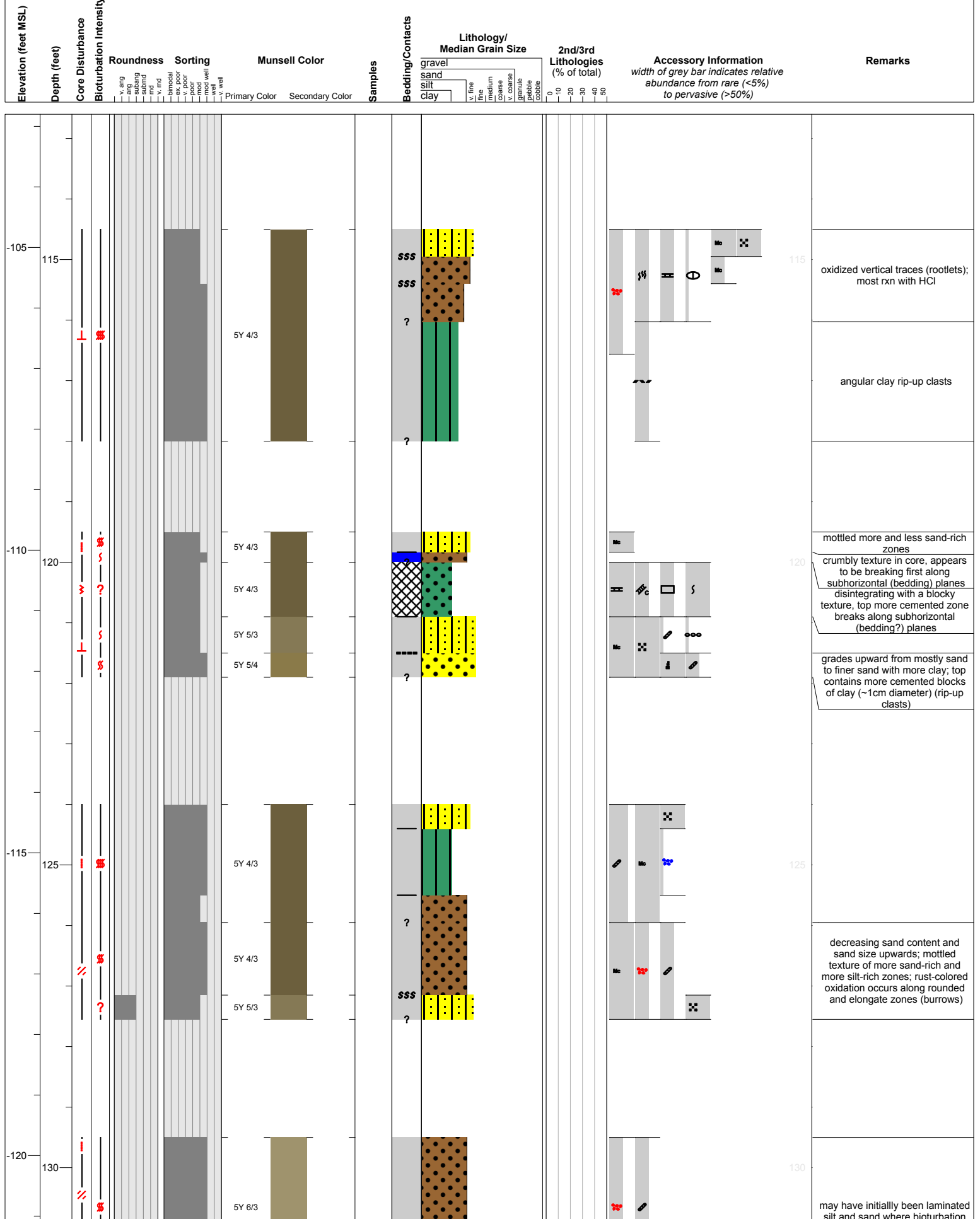
DCIF-DH-014

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color		Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang. ang. subang. angular v. md. md. bi-modal ex. poor poor mod. well-sorted v. well.		Primary Color Secondary Color				gravel sand silt clay v. fine fine medium coarse v. coarse granules pebbles cobble	0 10 20 30 40 50		
-70	80	I ?	? I			5Y 5/2						Mo Mo	mica flakes are much larger (coarse) in this sand than in clayey sand below; immature sand, many lithic fragments or groups of cemented grains
-75	85	I S	S I			5Y 4/3						Cls Mo Cns	
		I ?	? I			5Y 4/3						Mo Mo	lower half of unit is more silty and contains very small mica; upper half of unit is more clay-rich
-80	90	I ?	? I			5Y 4/3						Mo	mottled clay and silty sand

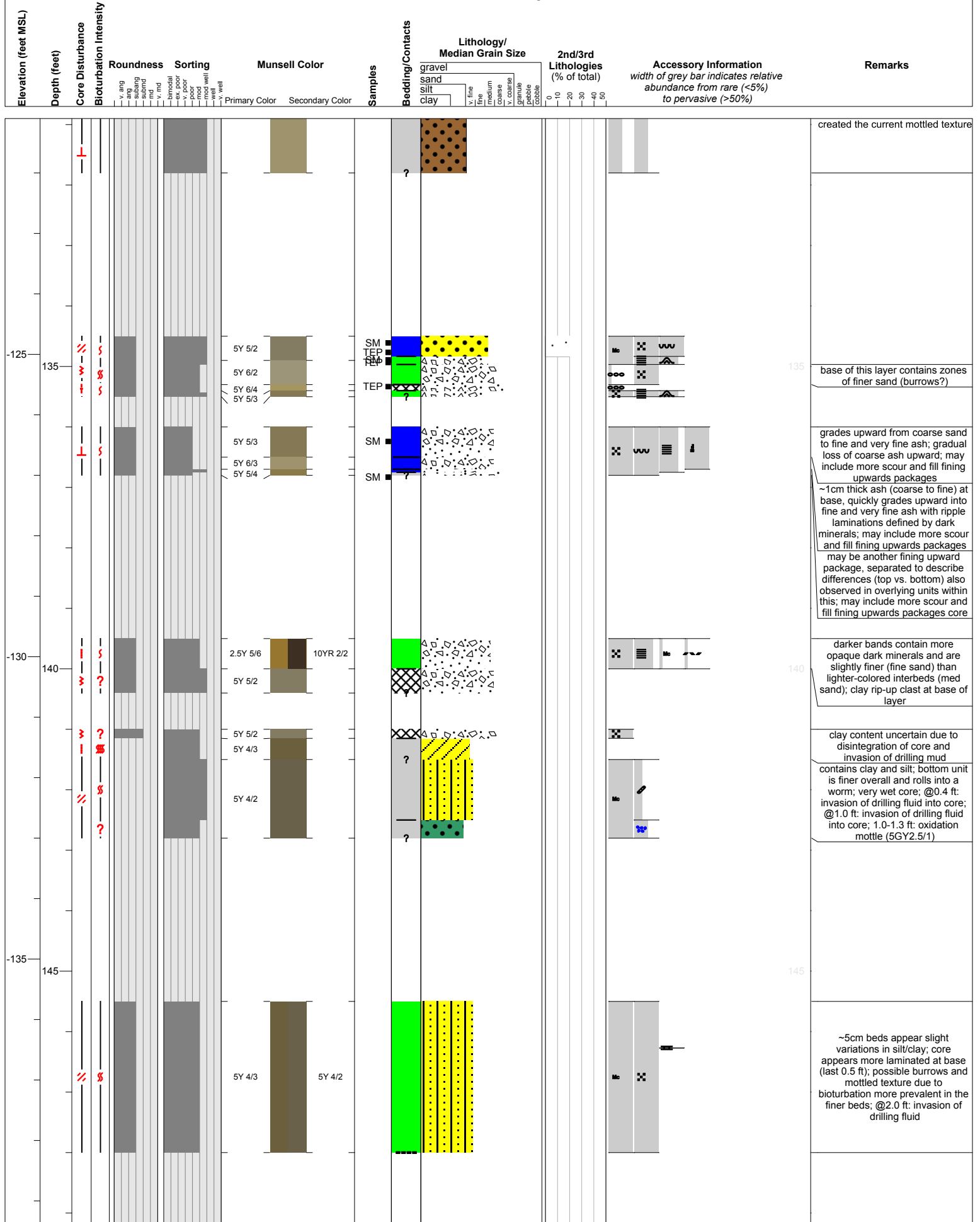
DCIF-DH-014



DCIF-DH-014



DCIF-DH-014



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbation Intensity

Ro

Sorting

Munsell Color
y Color Secondary

Secondary Color

Secondary Color

Samples

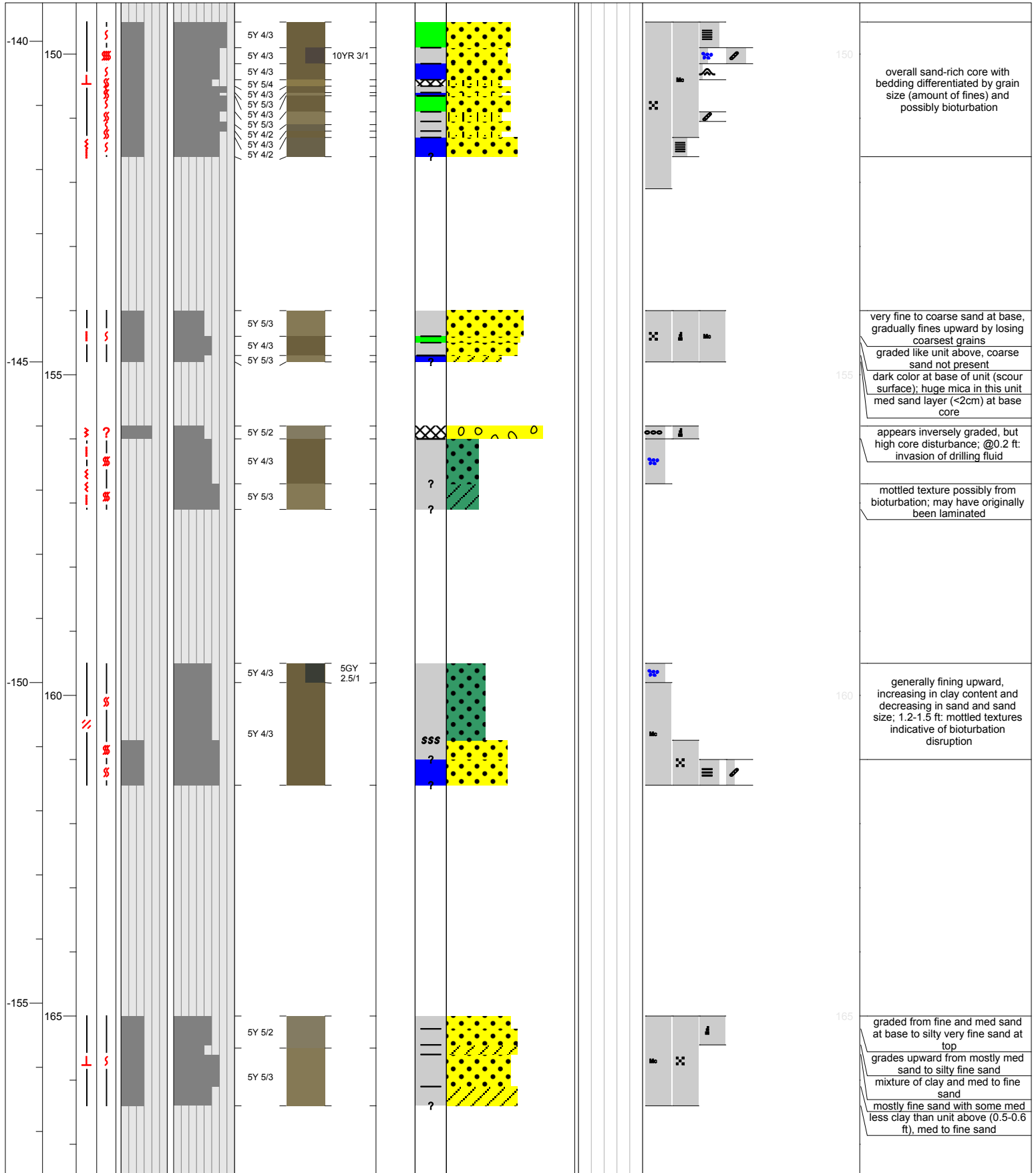
Bedding/Contacts

Lithology/ Median Grain Size	
level	
nd	
y	v. fine fine medium coarse v. coarse granule

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Re

Sorting

Munsell Color

Color	Secondary
10YR 5/6	10YR 5/6
10YR 6/6	10YR 6/6
10YR 7/6	10YR 7/6
10YR 8/6	10YR 8/6
10YR 9/6	10YR 9/6
10YR 10/6	10YR 10/6
10YR 11/6	10YR 11/6
10YR 12/6	10YR 12/6
10YR 13/6	10YR 13/6
10YR 14/6	10YR 14/6
10YR 15/6	10YR 15/6
10YR 16/6	10YR 16/6
10YR 17/6	10YR 17/6
10YR 18/6	10YR 18/6
10YR 19/6	10YR 19/6
10YR 20/6	10YR 20/6
10YR 21/6	10YR 21/6
10YR 22/6	10YR 22/6
10YR 23/6	10YR 23/6
10YR 24/6	10YR 24/6
10YR 25/6	10YR 25/6
10YR 26/6	10YR 26/6
10YR 27/6	10YR 27/6
10YR 28/6	10YR 28/6
10YR 29/6	10YR 29/6
10YR 30/6	10YR 30/6
10YR 31/6	10YR 31/6
10YR 32/6	10YR 32/6
10YR 33/6	10YR 33/6
10YR 34/6	10YR 34/6
10YR 35/6	10YR 35/6
10YR 36/6	10YR 36/6
10YR 37/6	10YR 37/6
10YR 38/6	10YR 38/6
10YR 39/6	10YR 39/6
10YR 40/6	10YR 40/6
10YR 41/6	10YR 41/6
10YR 42/6	10YR 42/6
10YR 43/6	10YR 43/6
10YR 44/6	10YR 44/6
10YR 45/6	10YR 45/6
10YR 46/6	10YR 46/6
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10YR 85/6	10YR 85/6
10YR 86/6	10YR 86/6
10YR 87/6	10YR 87/6
10YR 88/6	10YR 88/6
10YR 89/6	10YR 89/6
10YR 90/6	10YR 90/6
10YR 91/6	10YR 91/6
10YR 92/6	10YR 92/6
10YR 93/6	10YR 93/6
10YR 94/6	10YR 94/6
10YR 95/6	10YR 95/6
10YR 96/6	10YR 96/6
10YR 97/6	10YR 97/6
10YR 98/6	10YR 98/6
10YR 99/6	10YR 99/6
10YR 100/6	10YR 100/6

Samples

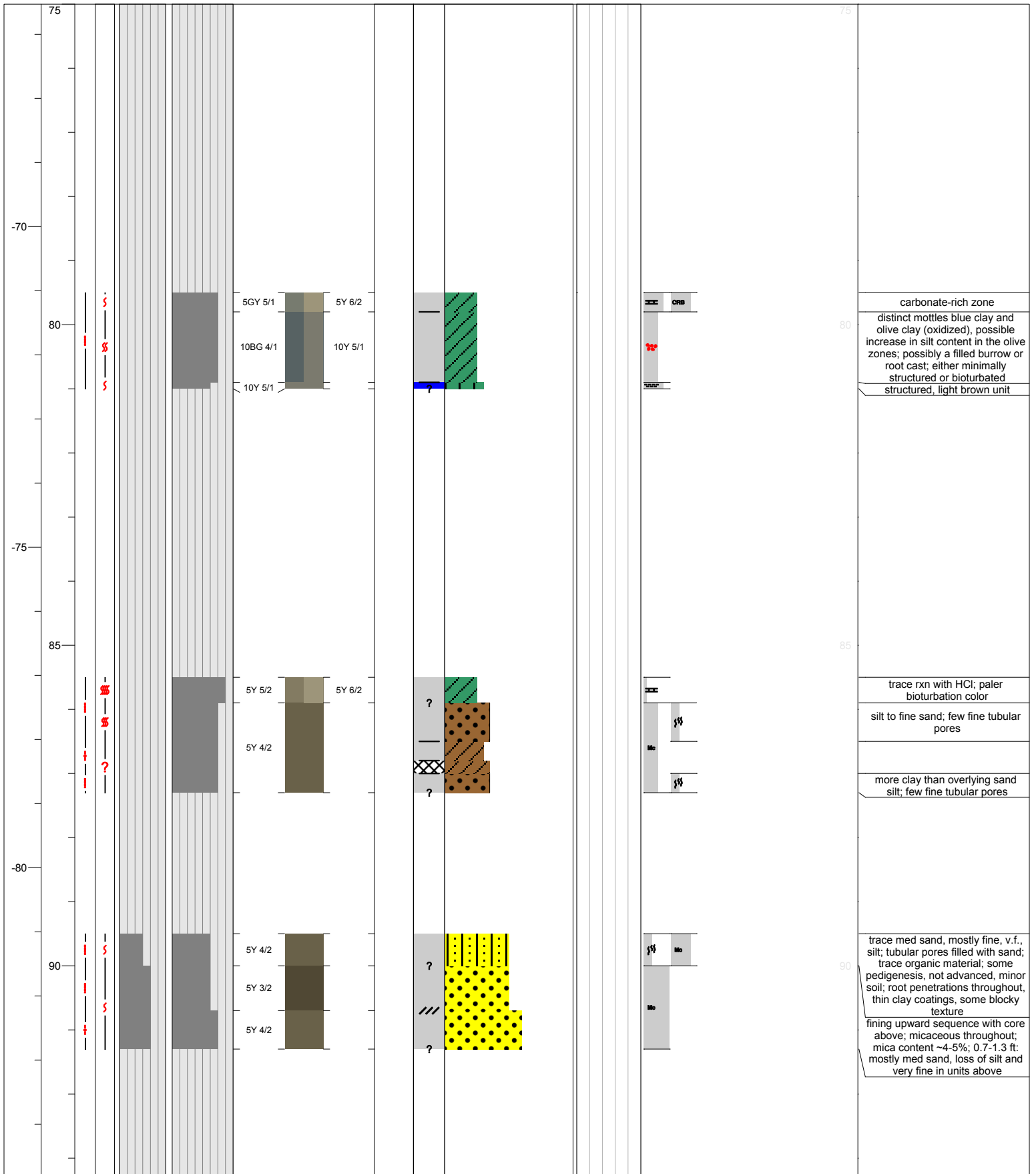
Bedding/Contacts

**Lithology/
Median Grain Size**

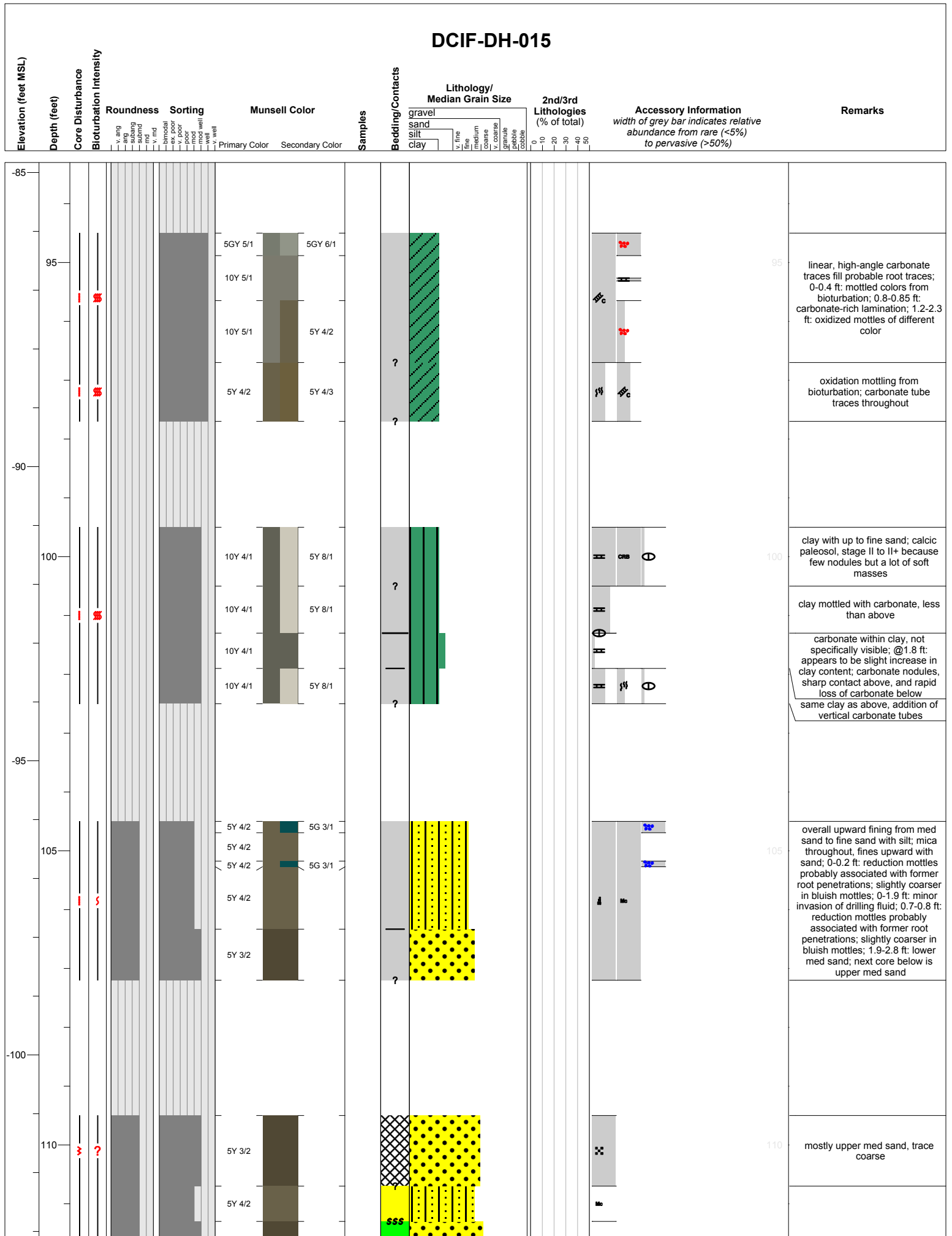
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



DCIF-DH-015



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbati

Ro

Sorting

Munsell Color
y Color Secondary

Secondary Color

Samples

Samples

Bedding/Contacts

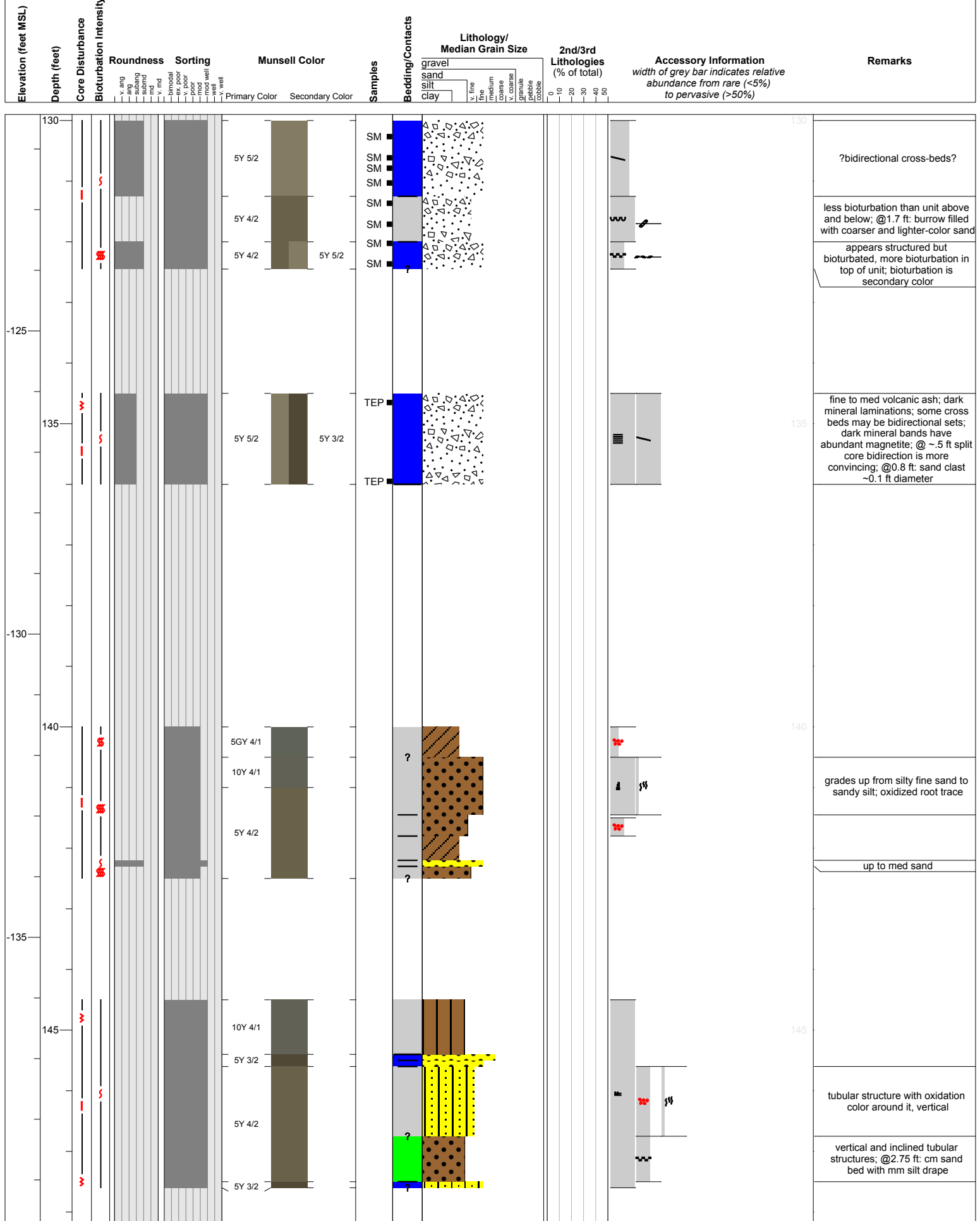
Lithology/ Median Grain Size	
level	
nd	
y	v. fine fine medium coarse v. coarse granule

**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

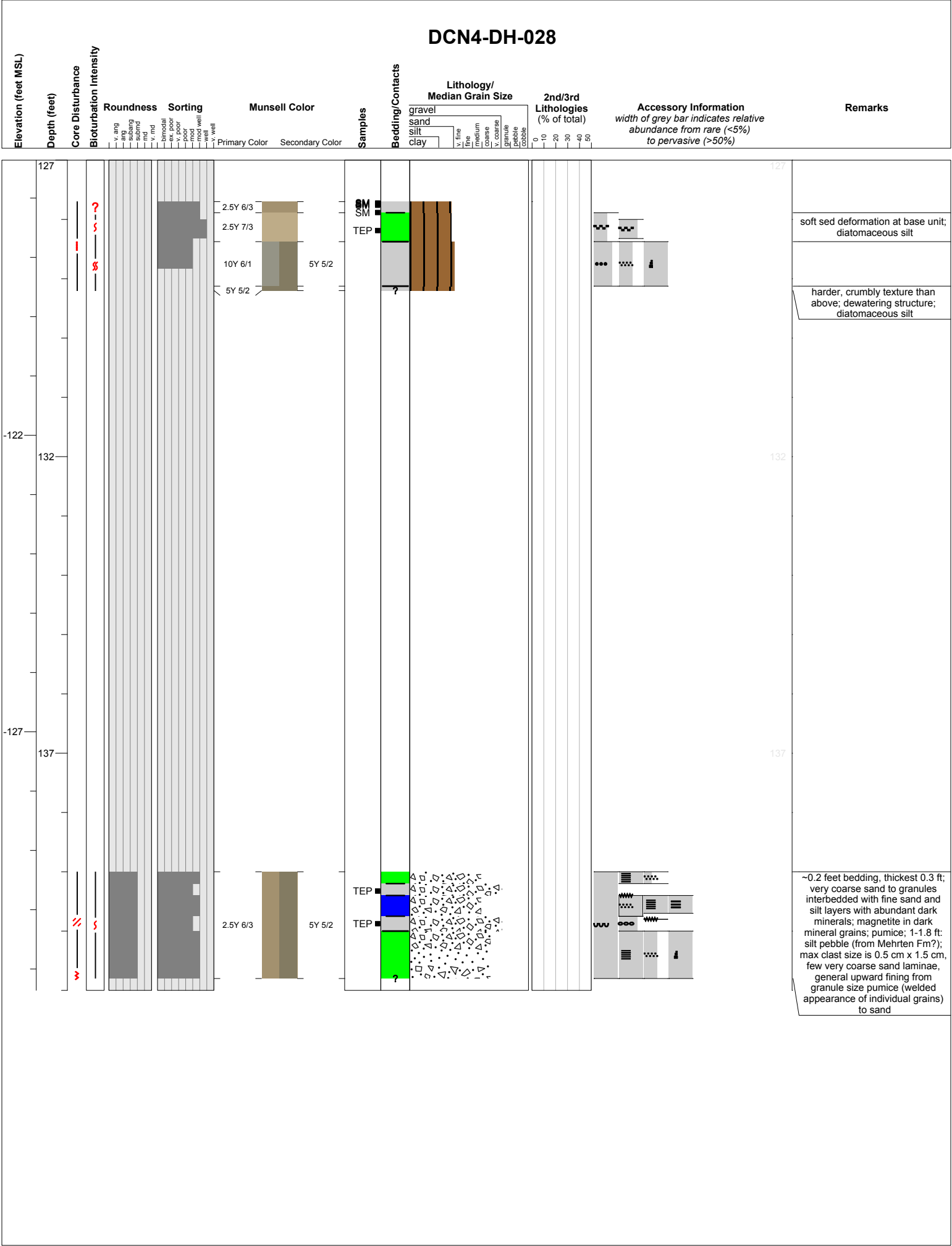
DCIF-DH-015



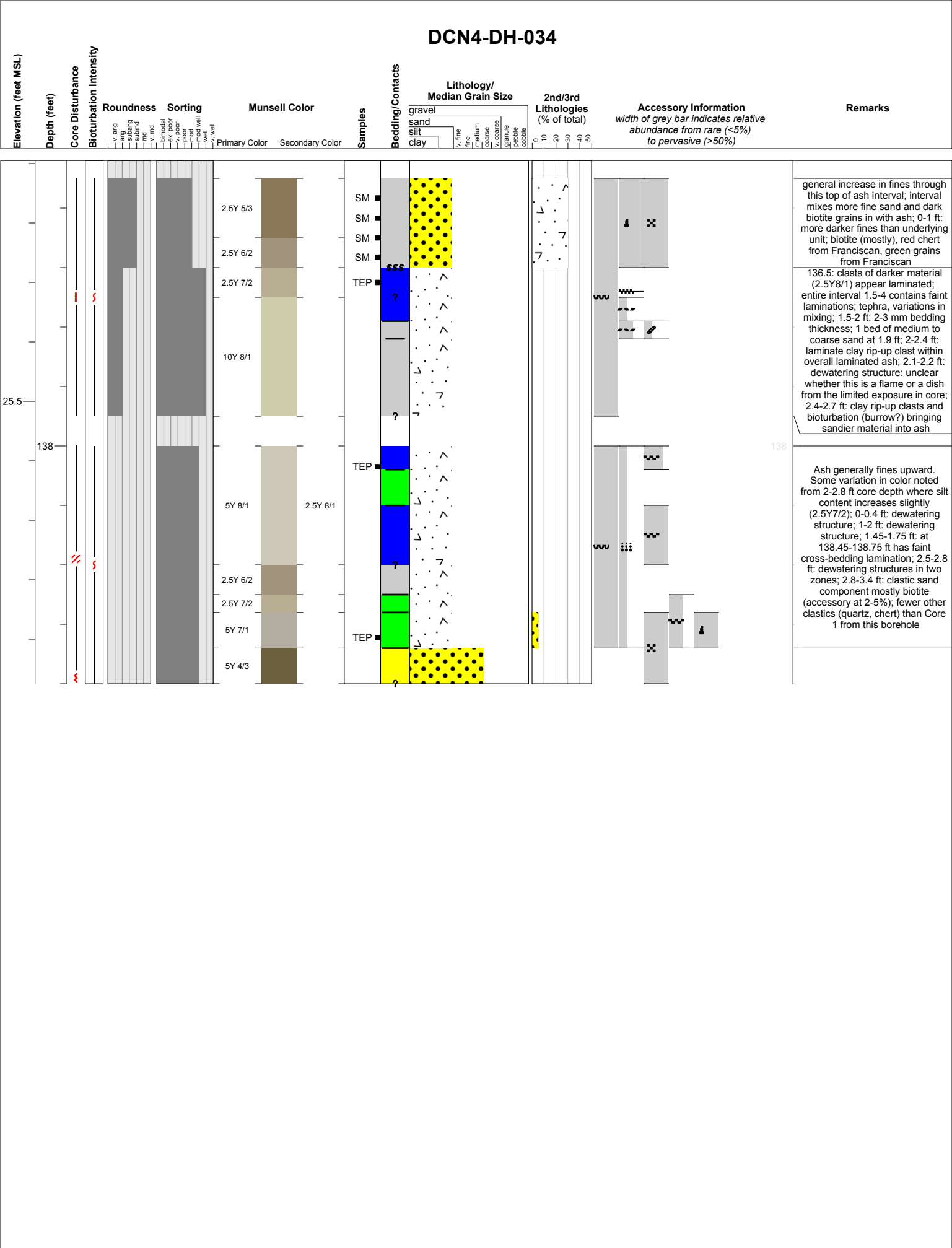
DCIF-DH-015

[illegible]

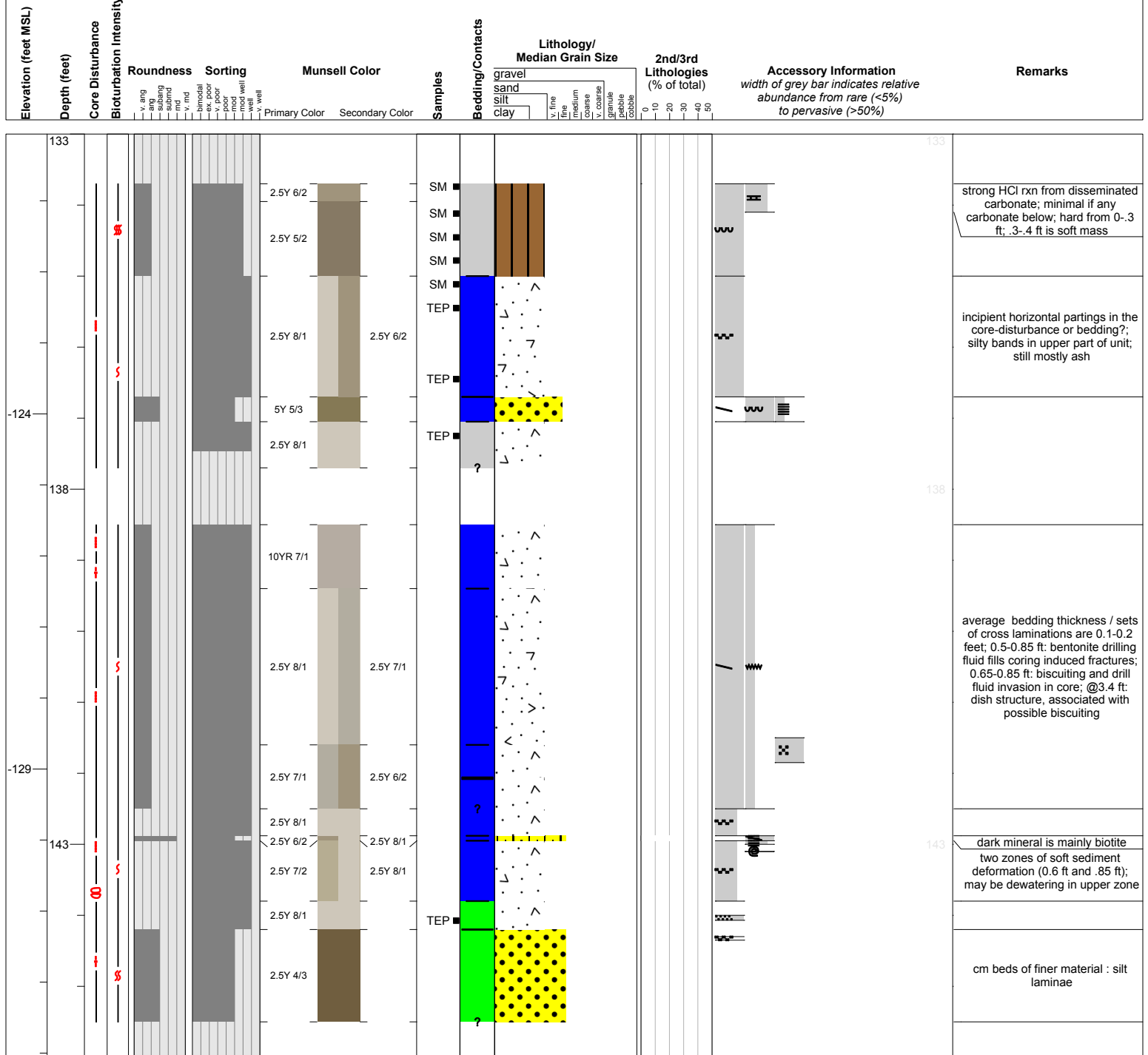
DCN4-DH-028



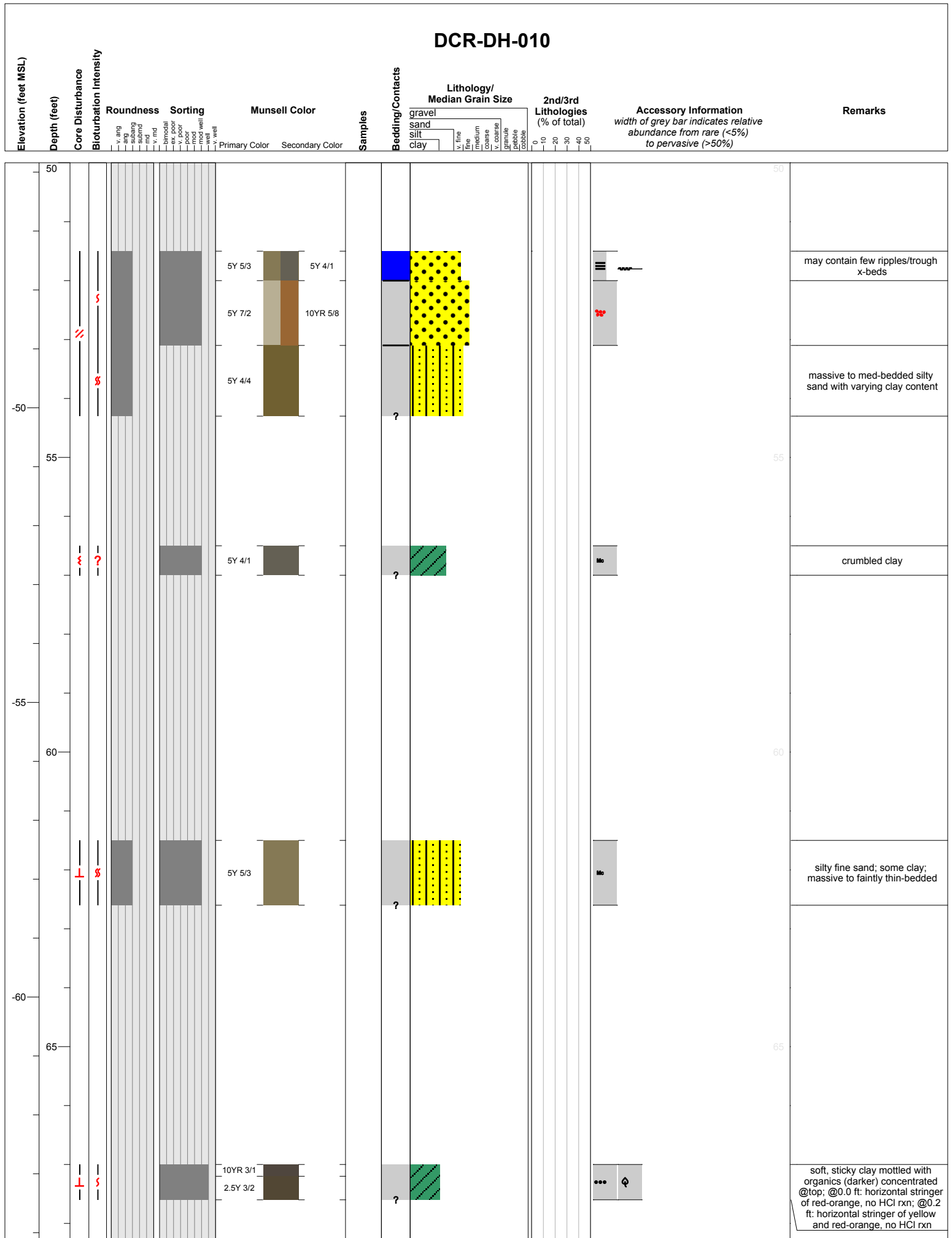
DCN4-DH-034



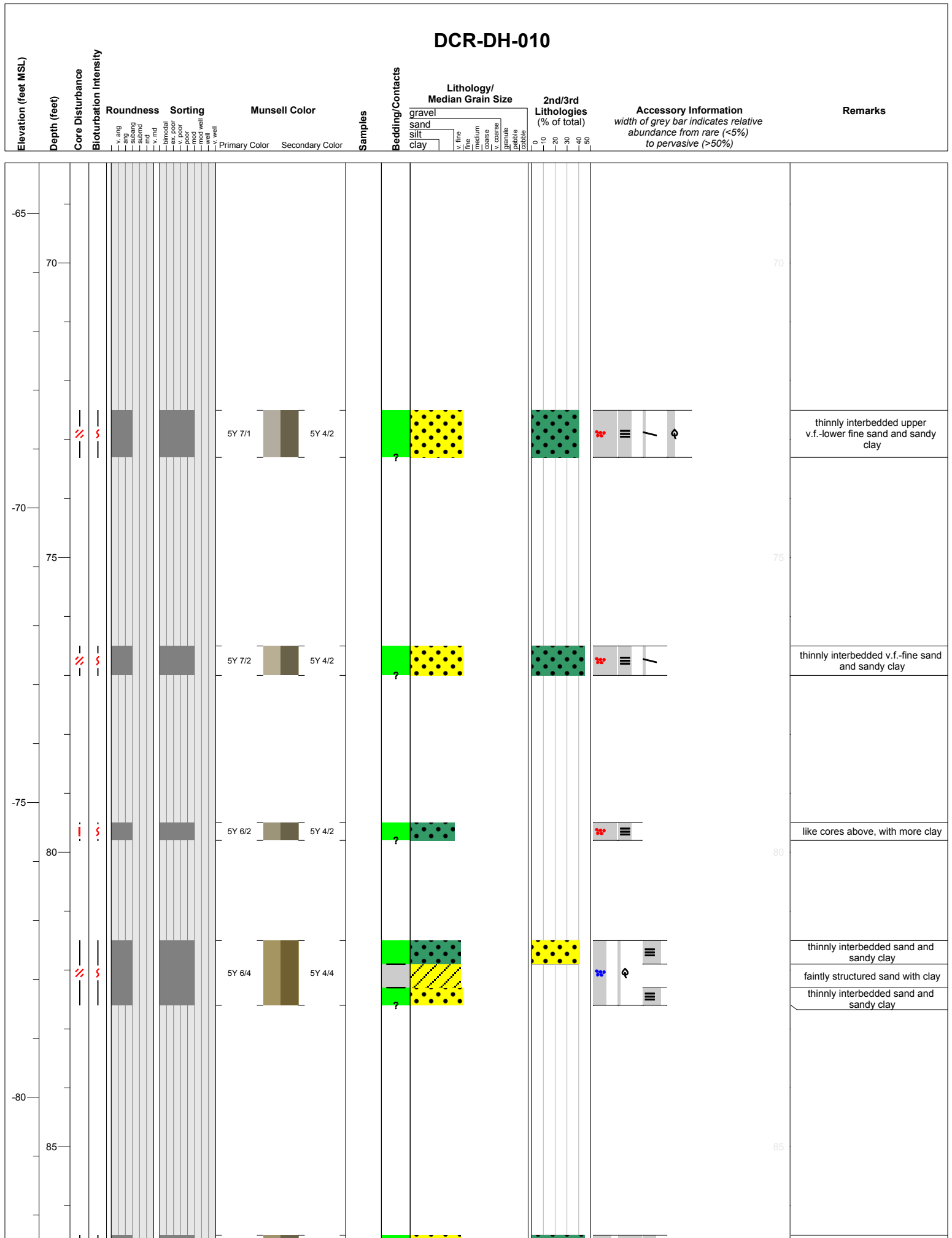
DCN4-DH-036



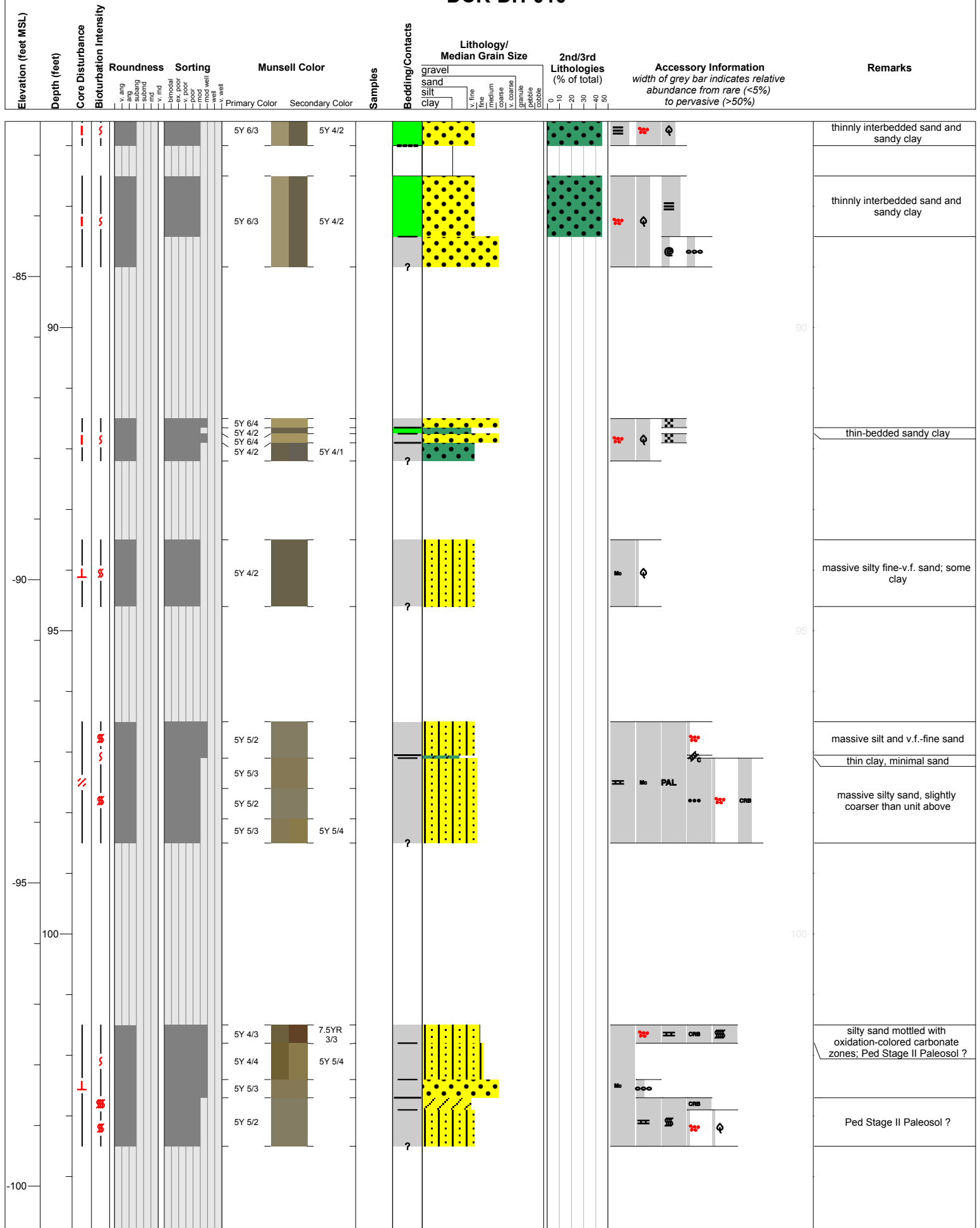
DCR-DH-010



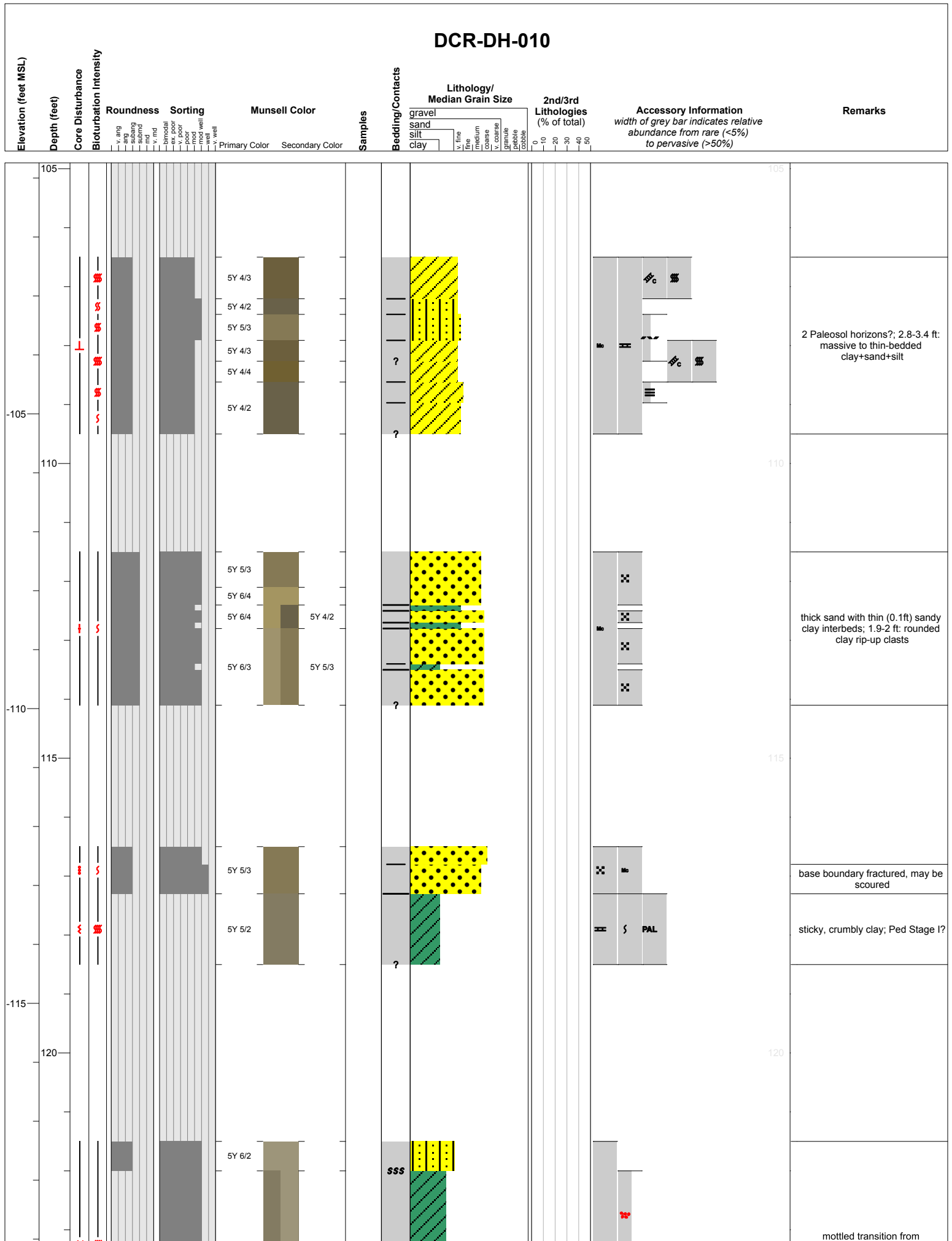
DCR-DH-010



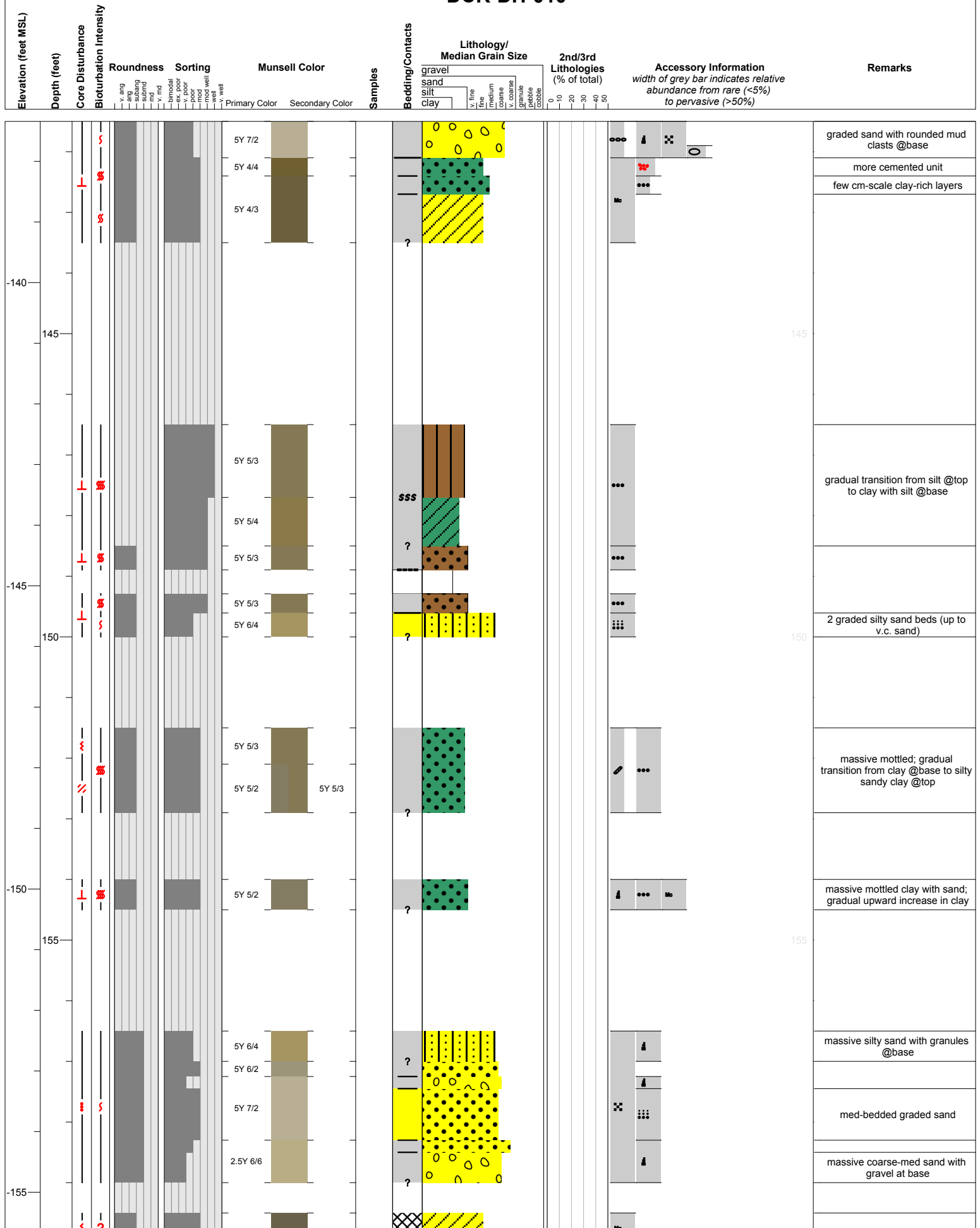
DCR-DH-010



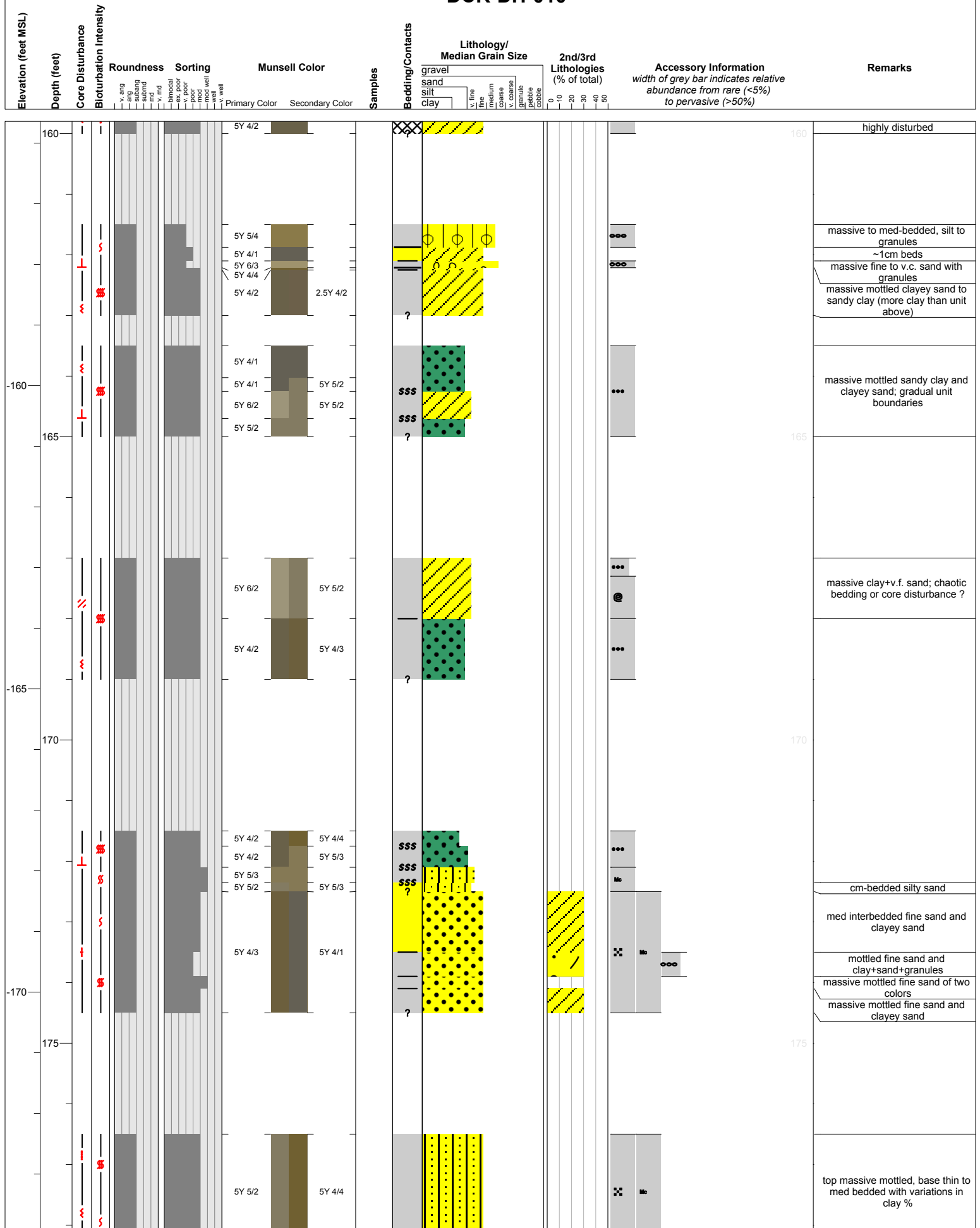
DCR-DH-010



DCR-DH-010



DCR-DH-010



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

Sorting

Munsell Color

Secondary Color

Samples

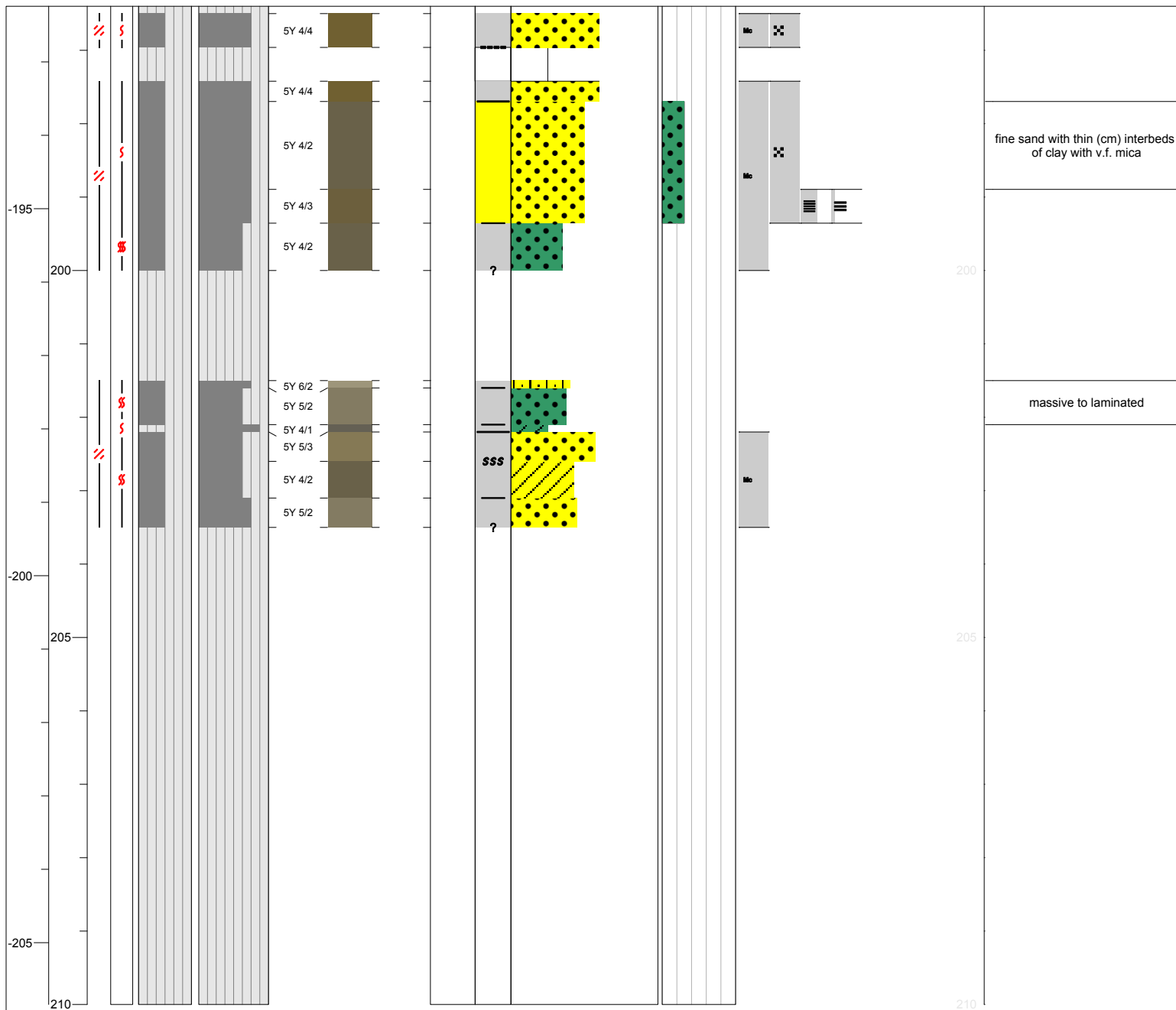
Bedding/Contacts

[illegible]

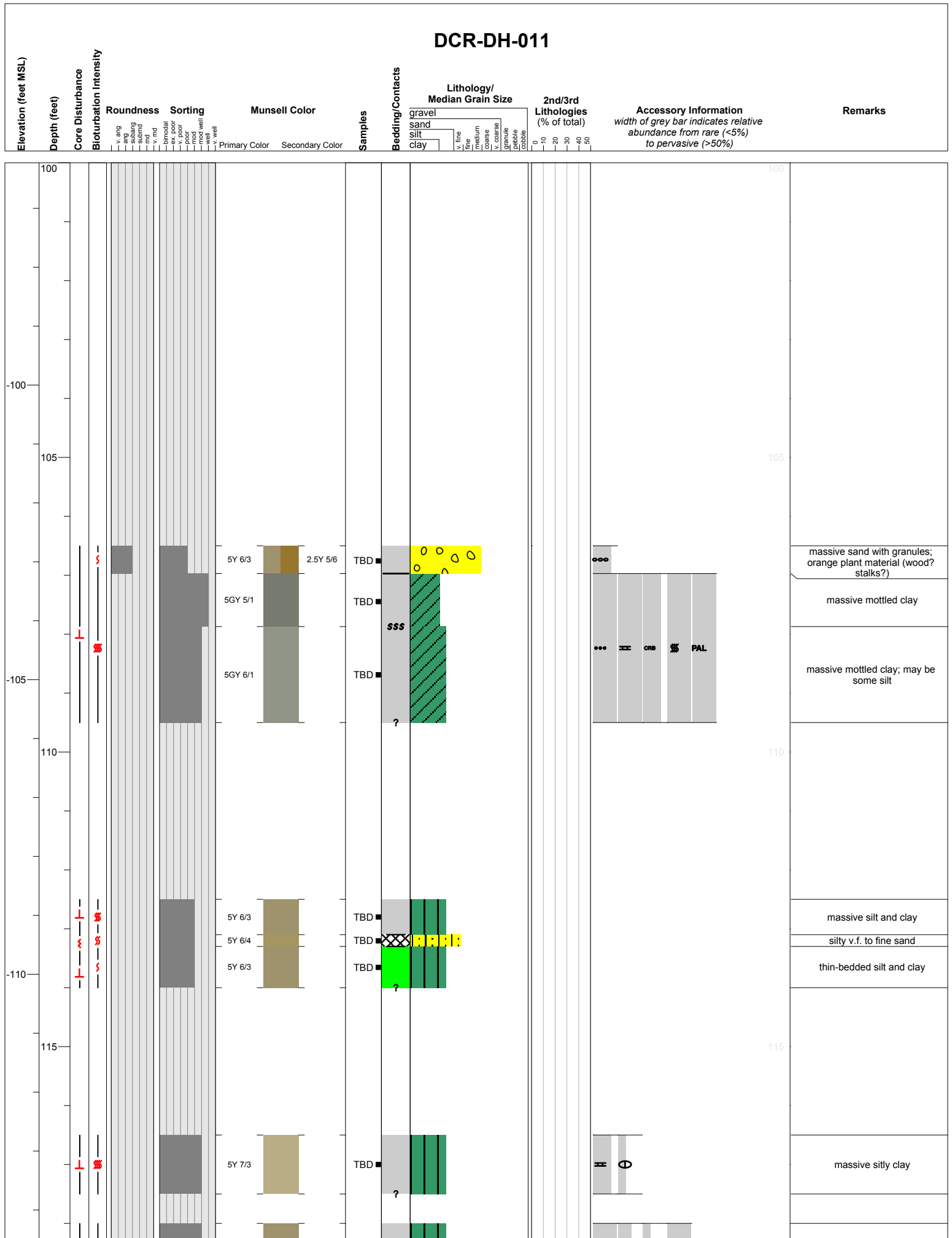
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

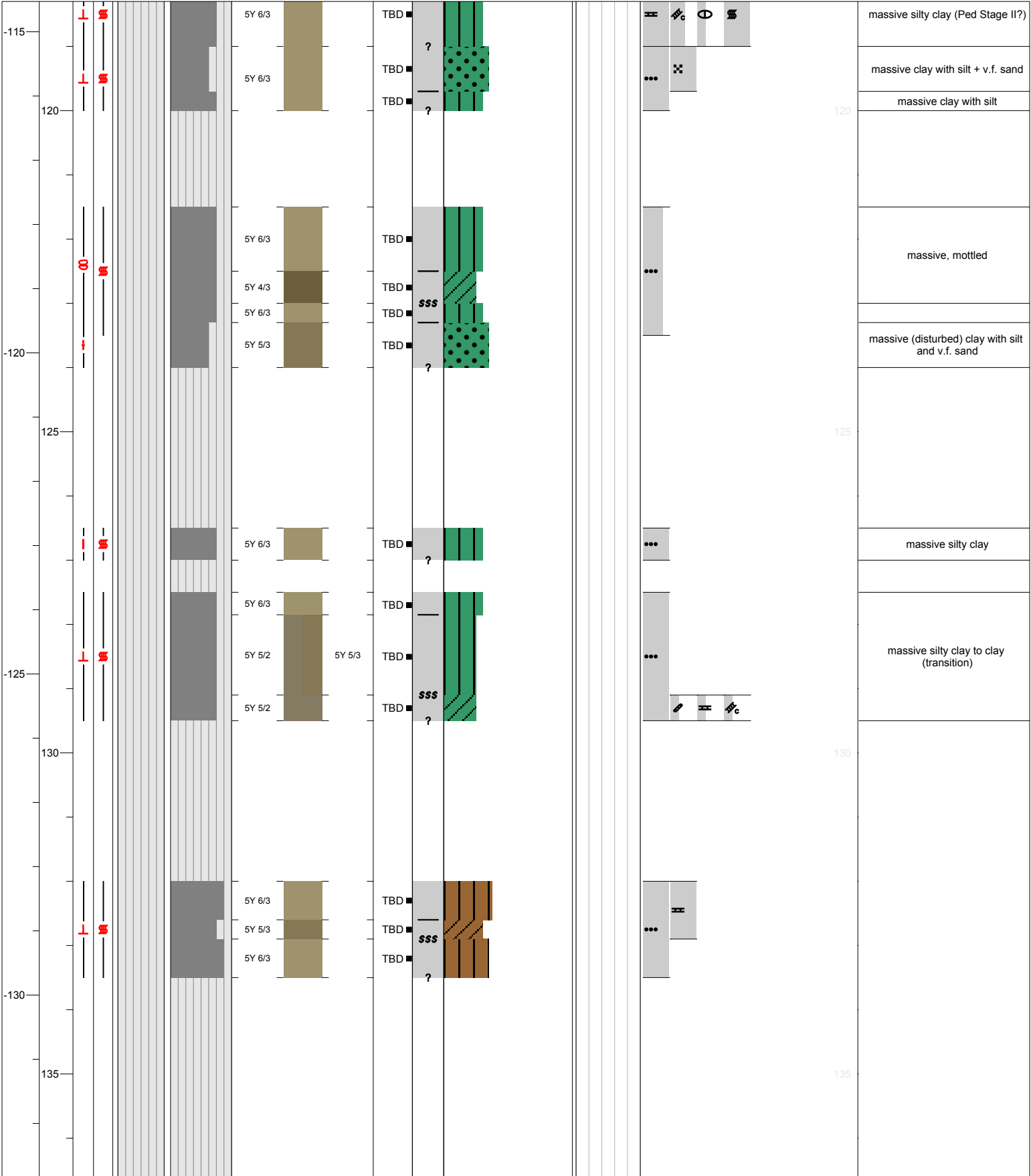
Remarks



DCR-DH-011



DCR-DH-011												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine coarse cobble	0 10 20 30 40 50		



DCR-DH-011

[illegible]

Elevation (feet MSL)

Core Disturbance

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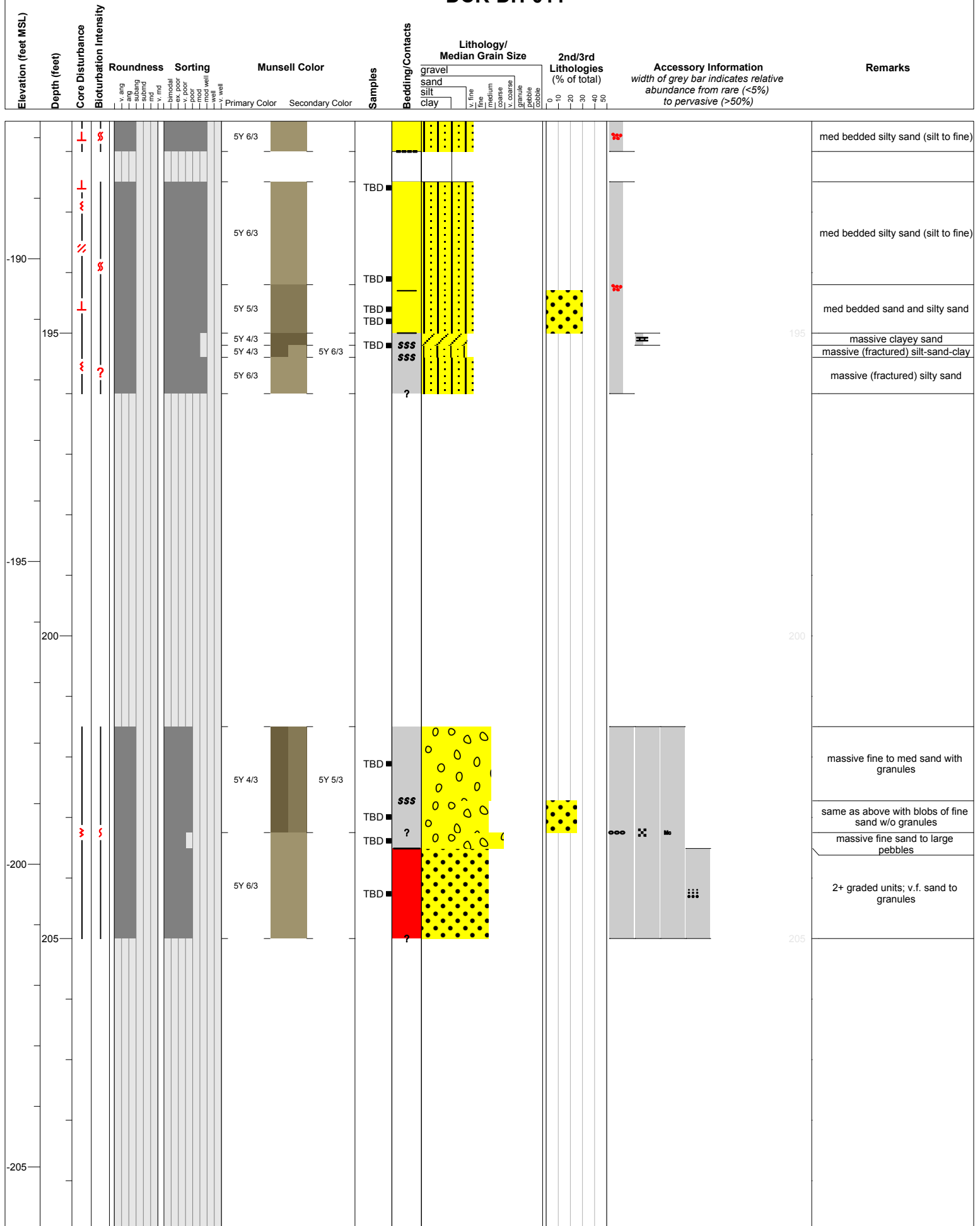
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DCR-DH-011

[illegible]

DCR-DH-011



DCR-DH-011

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang. ang. subang. mod. ang. ind.	bimodal ex. poor poor mod. mod well v. well	Primary Color Secondary Color		gravel sand silt clay	> v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
-210												
-215						5Y 6/3	TBD					massive (upper half) to thin-bedded (lower half) silt and v.f. to lower fine sand
-220						5Y 6/3	TBD					massive (fractured) clay/silt with v.f. sand
-225						5Y 6/3	TBD					massive mottled clay/silt with v.f. sand

DCR-DH-011

[illegible]

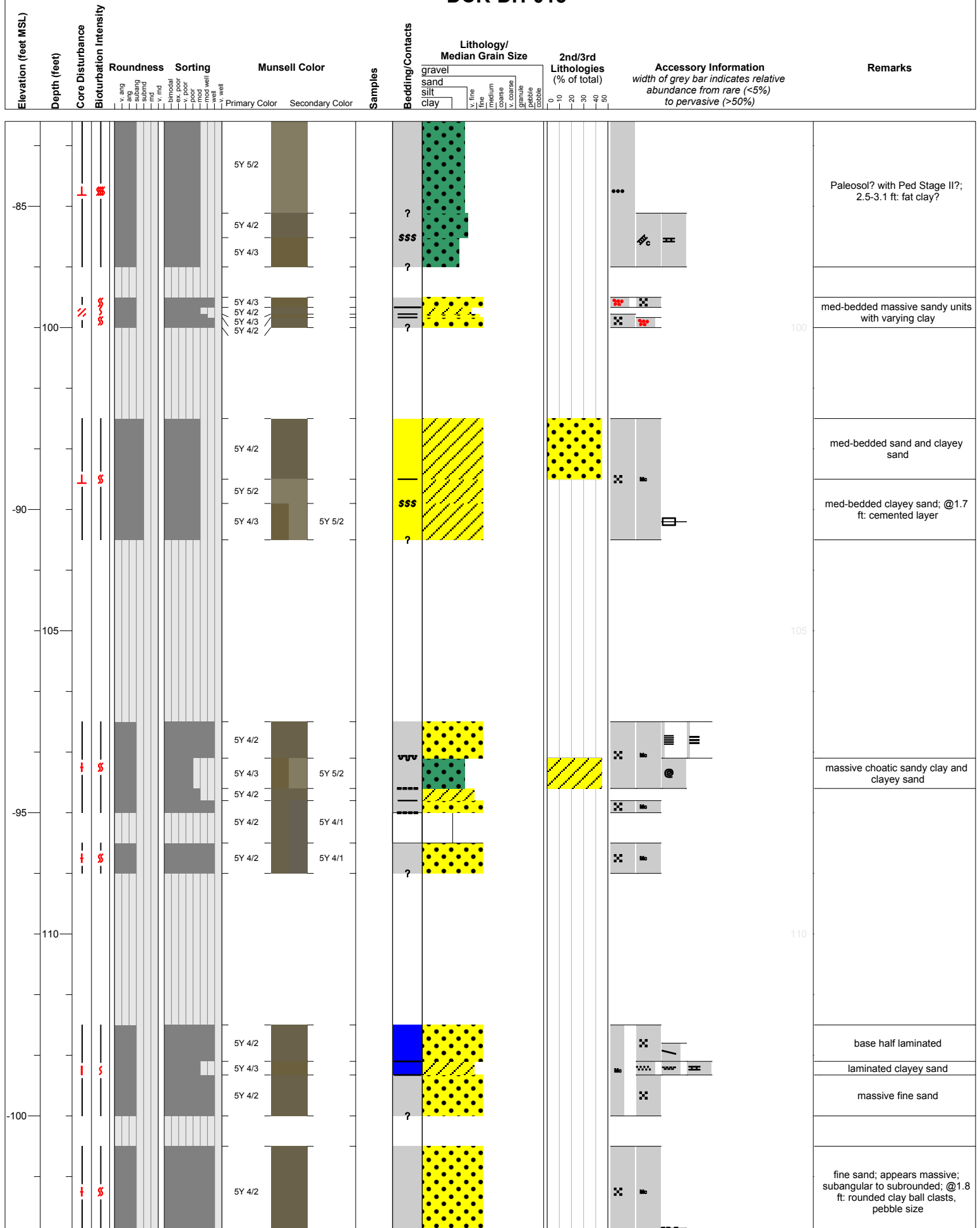
DCR-DH-015



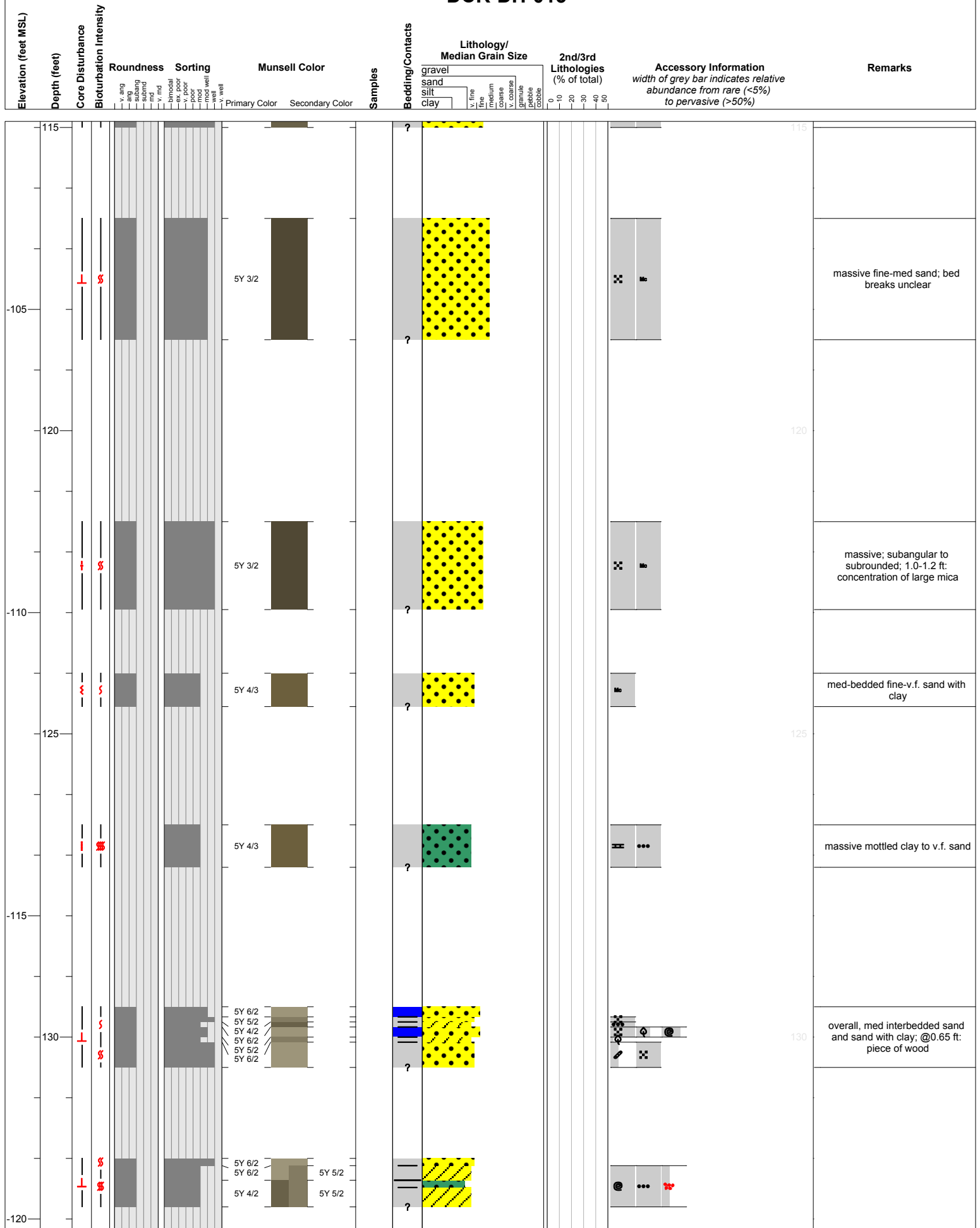
DCR-DH-015

[illegible]

DCR-DH-015



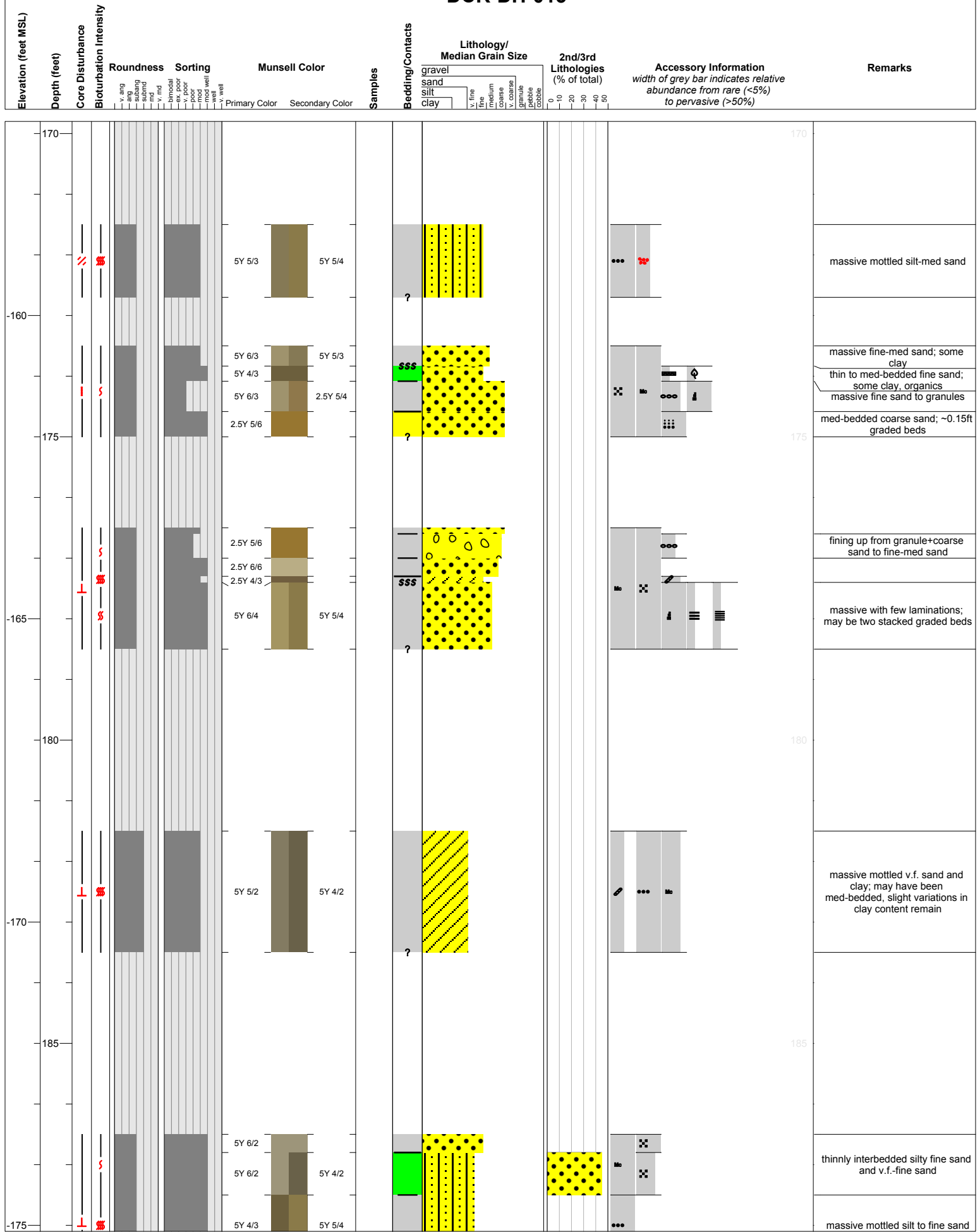
DCR-DH-015



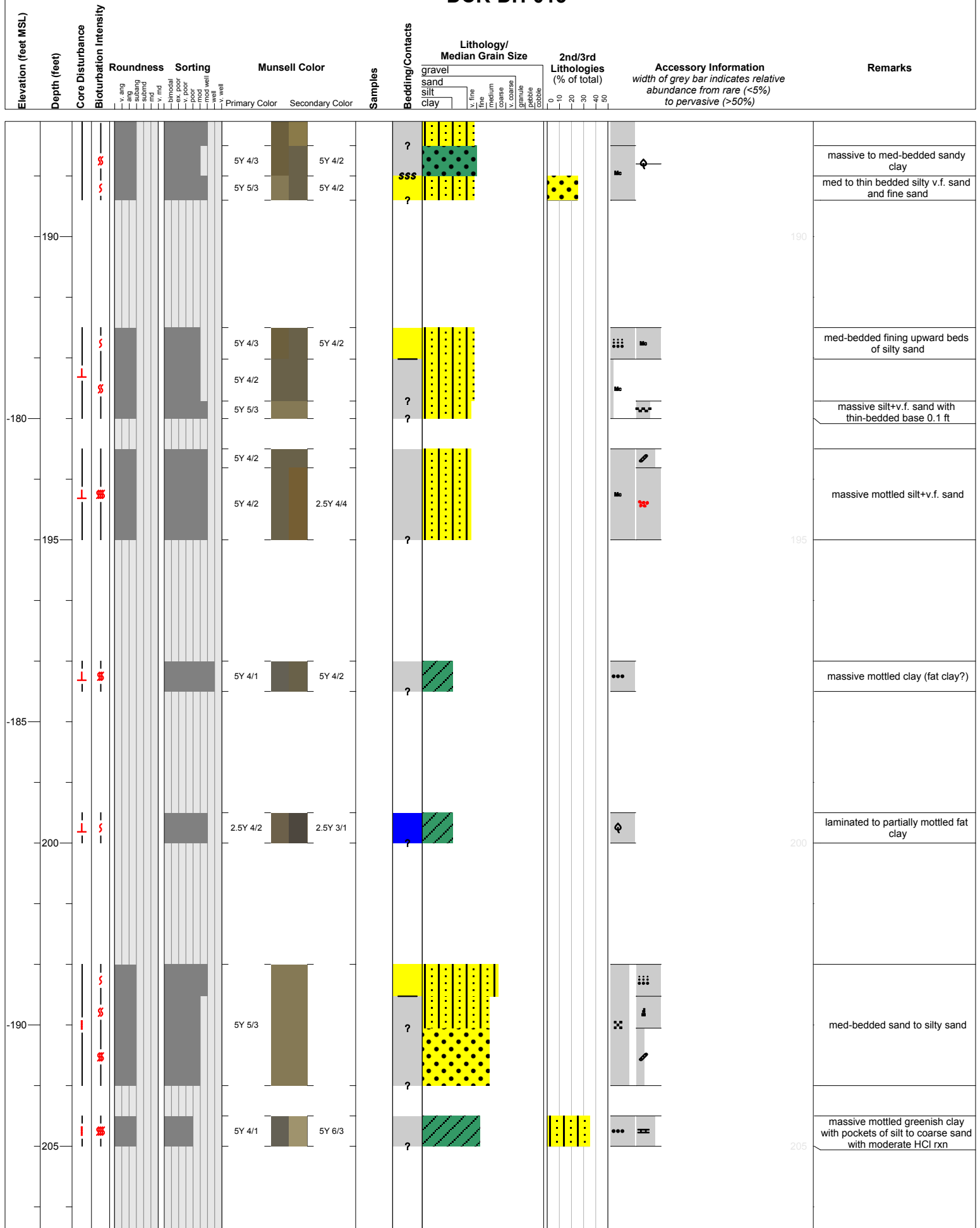
DCR-DH-015

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang submd md v. md bimodal poor v. poor mod well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse fine medium coarse v. coarse fine medium coarse v. coarse	0 10 20 30 40 50		
						5Y 6/3				?				massive to thin-bedded clayey sand; minimal HCl rxn
						5Y 7/2		5Y 6/3		?				massive (fractured) sand; may be med-bedded
						5Y 5/2								thin-bedded fine-v.f. sand
						5Y 6/3				?				
						5Y 6/3		5Y 4/2		sss ?				
						5Y 4/3		5Y 5/3		?				minimal HCl rxn; vertical carbonate vein in base 0.5ft; possibly 3 mottled units of clayey sand/sandy clay
						5Y 4/3		5Y 7/2						Ped Stage II with partially leached zone in core above ?
						5Y 6/3								may be structured and/or scoured
						5Y 4/2								
						5Y 5/2								
						5Y 7/3								
						5Y 4/3				?				subrounded to subangular fine-med sand

DCR-DH-015



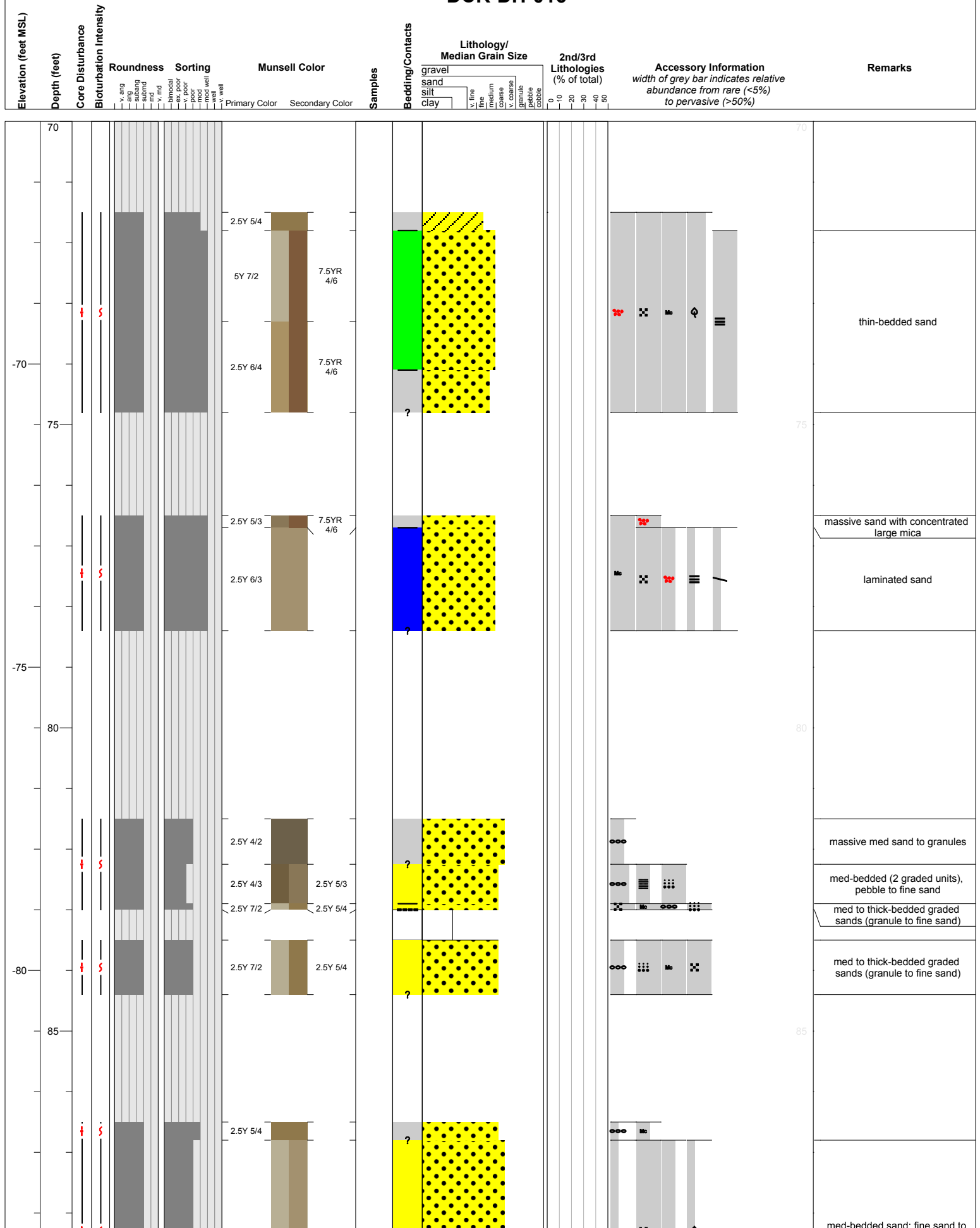
DCR-DH-015



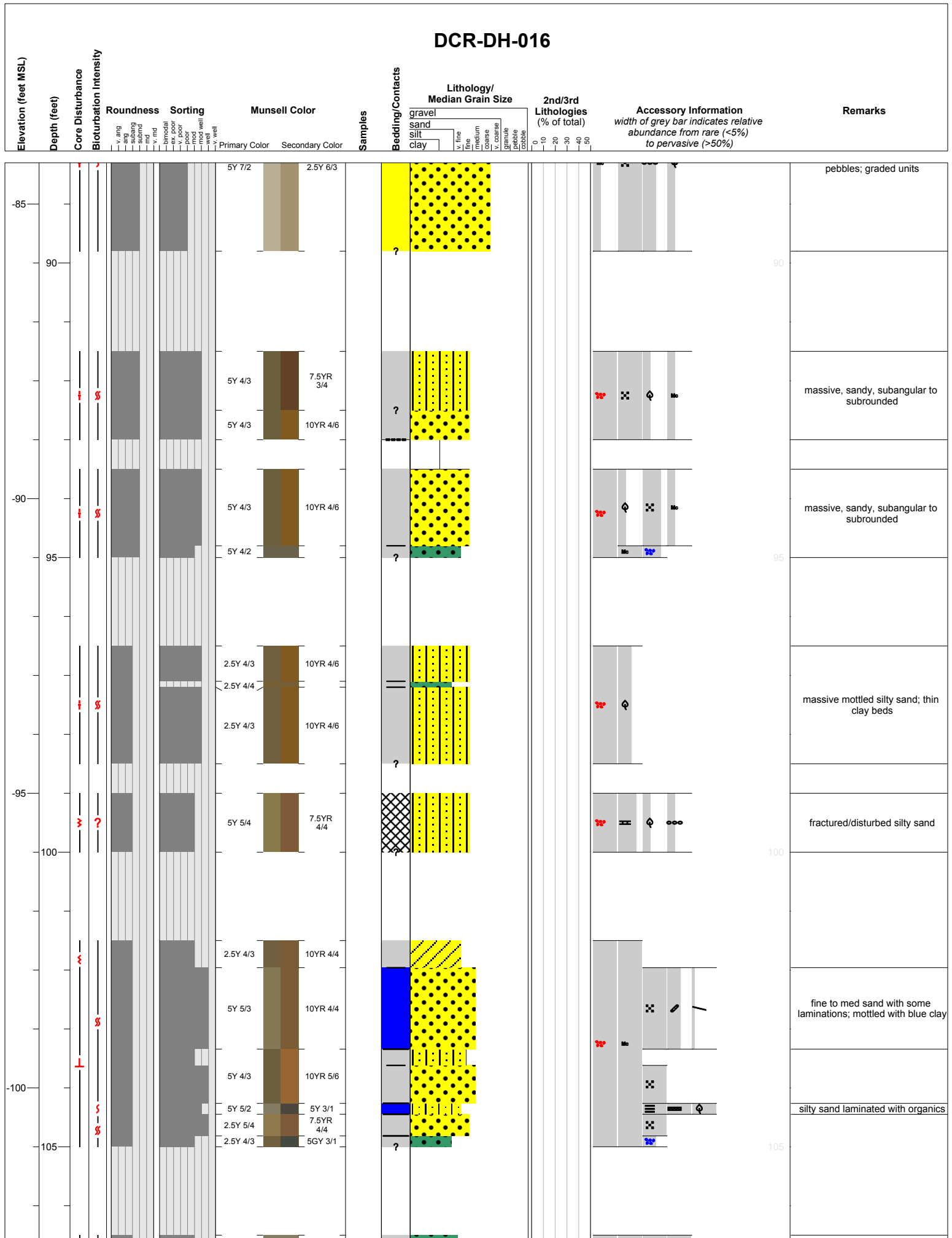
DCR-DH-015

[illegible]

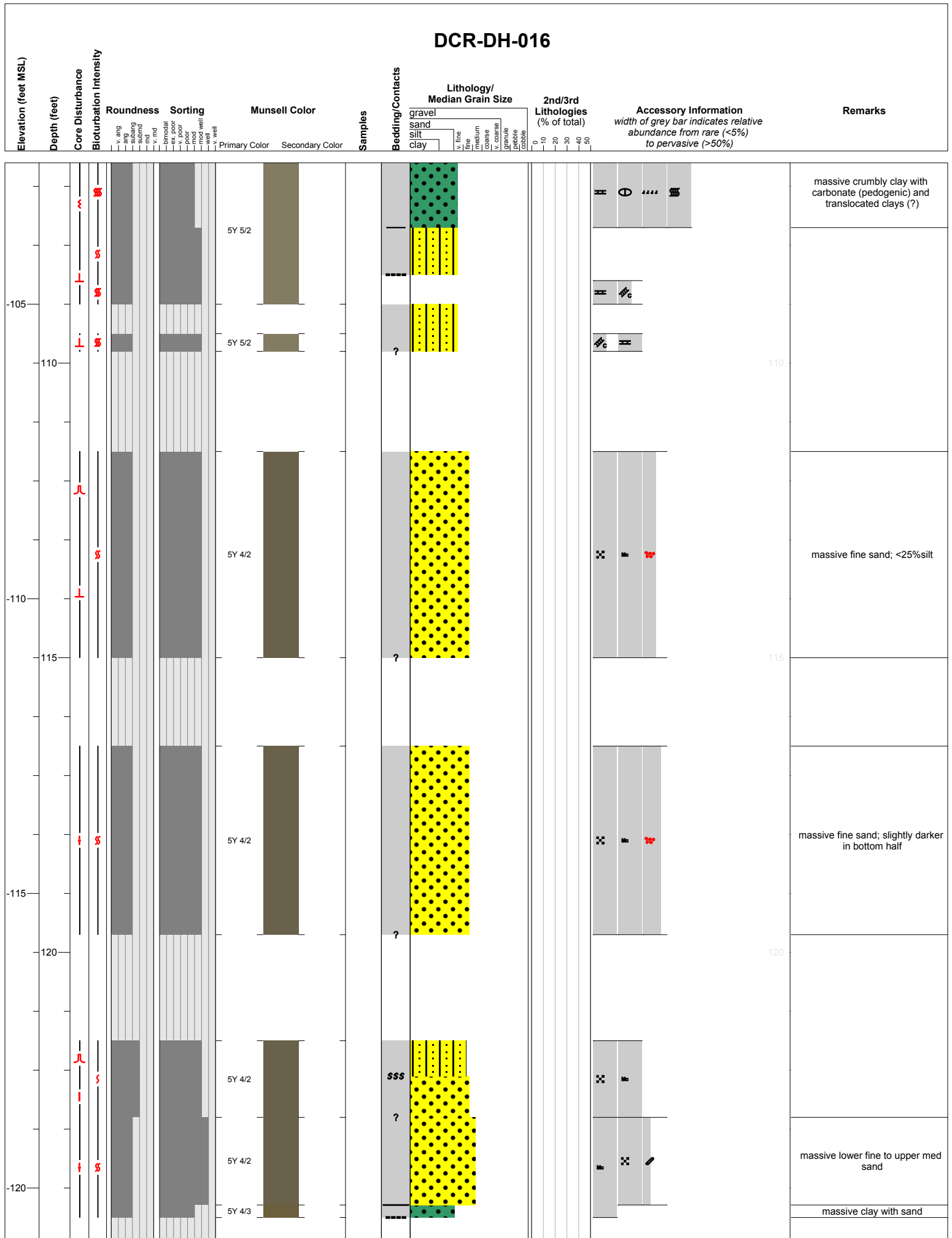
DCR-DH-016



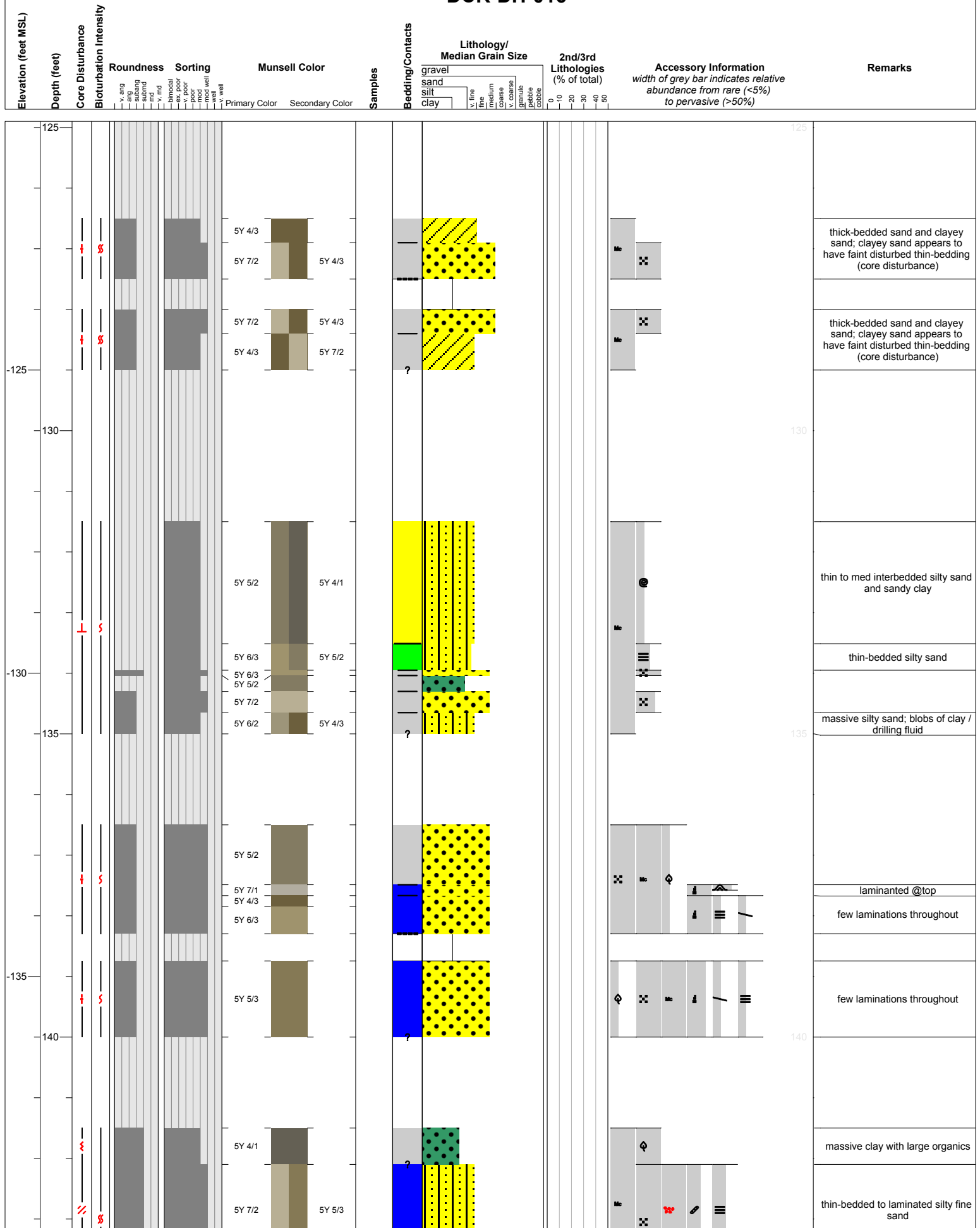
DCR-DH-016



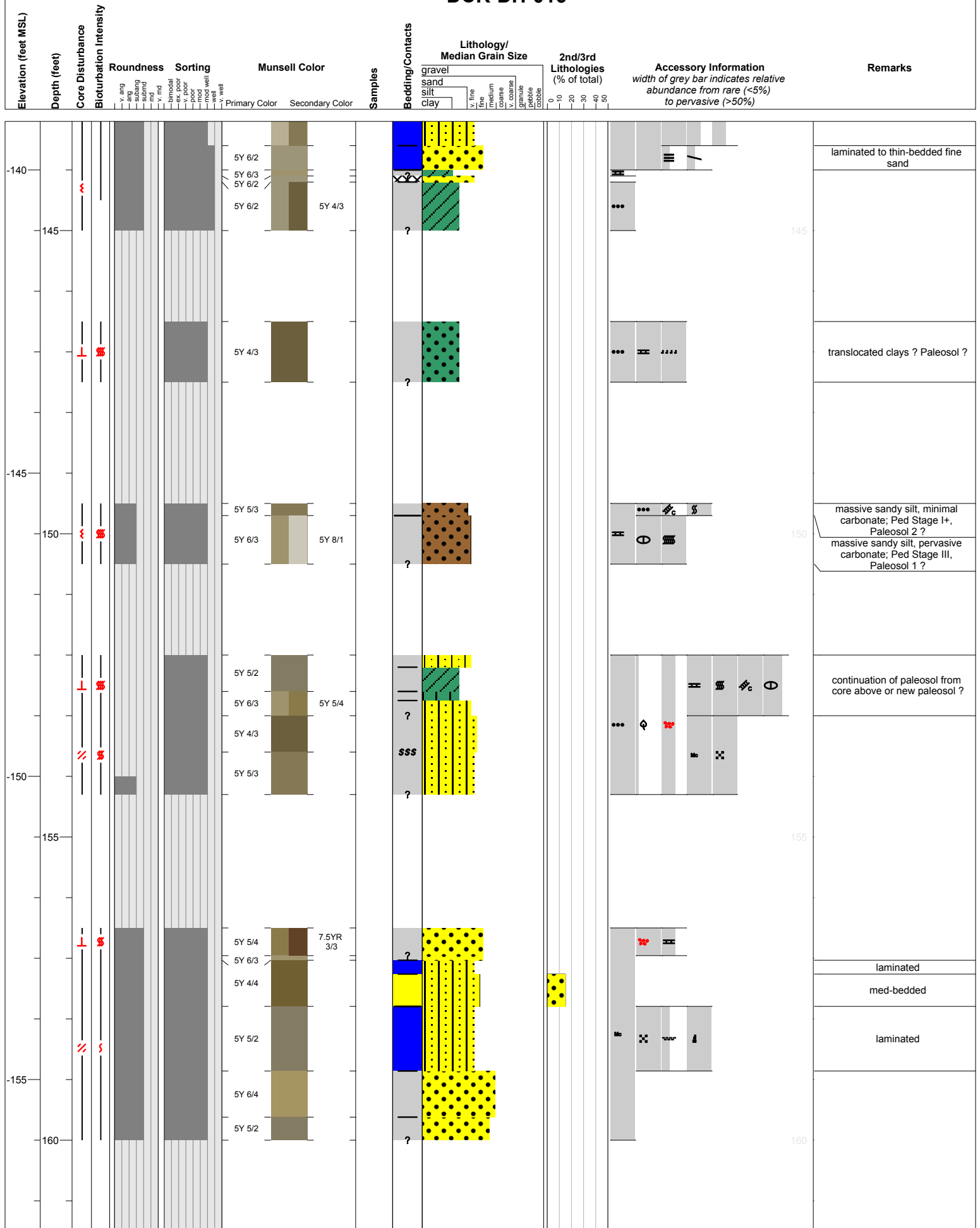
DCR-DH-016



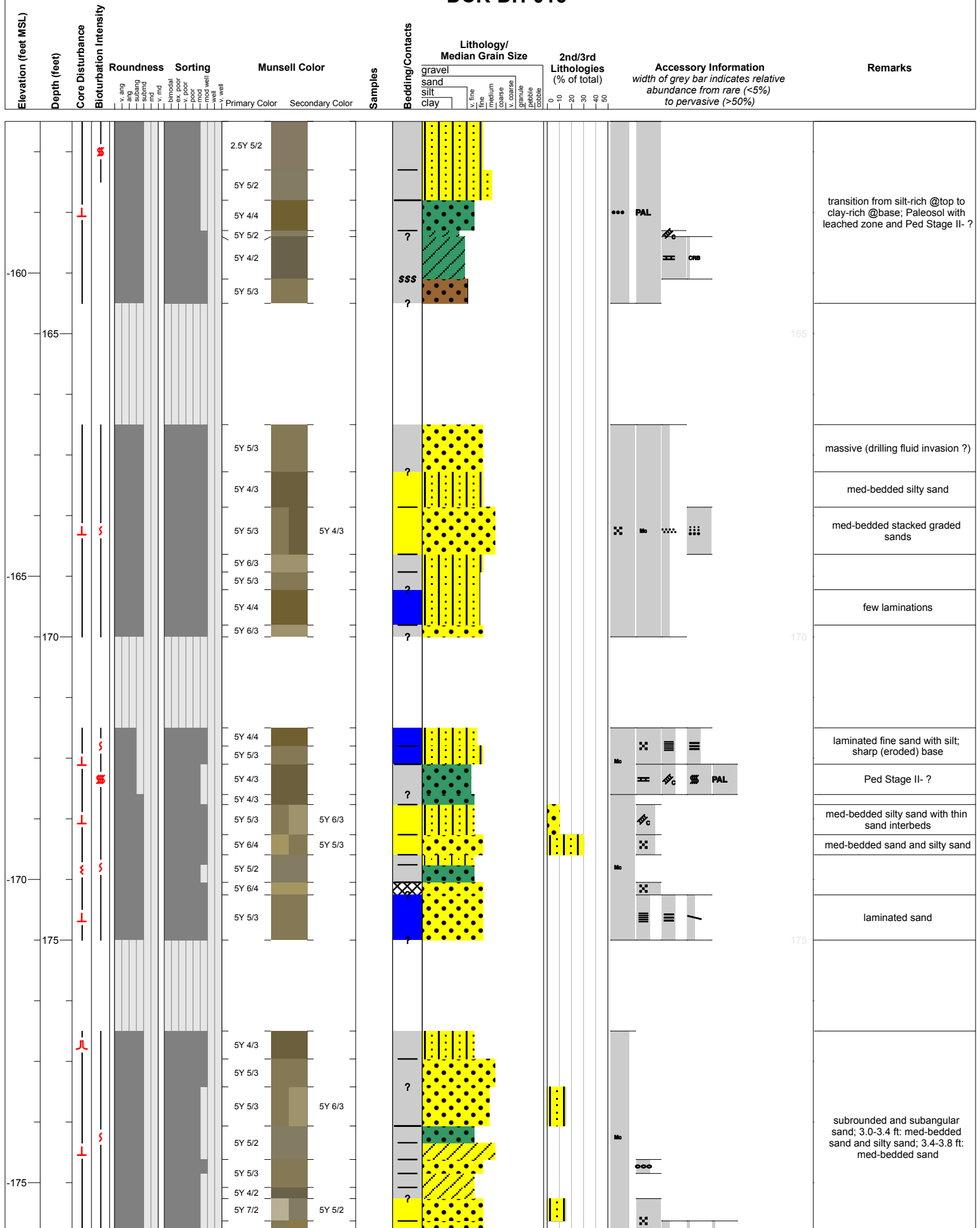
DCR-DH-016



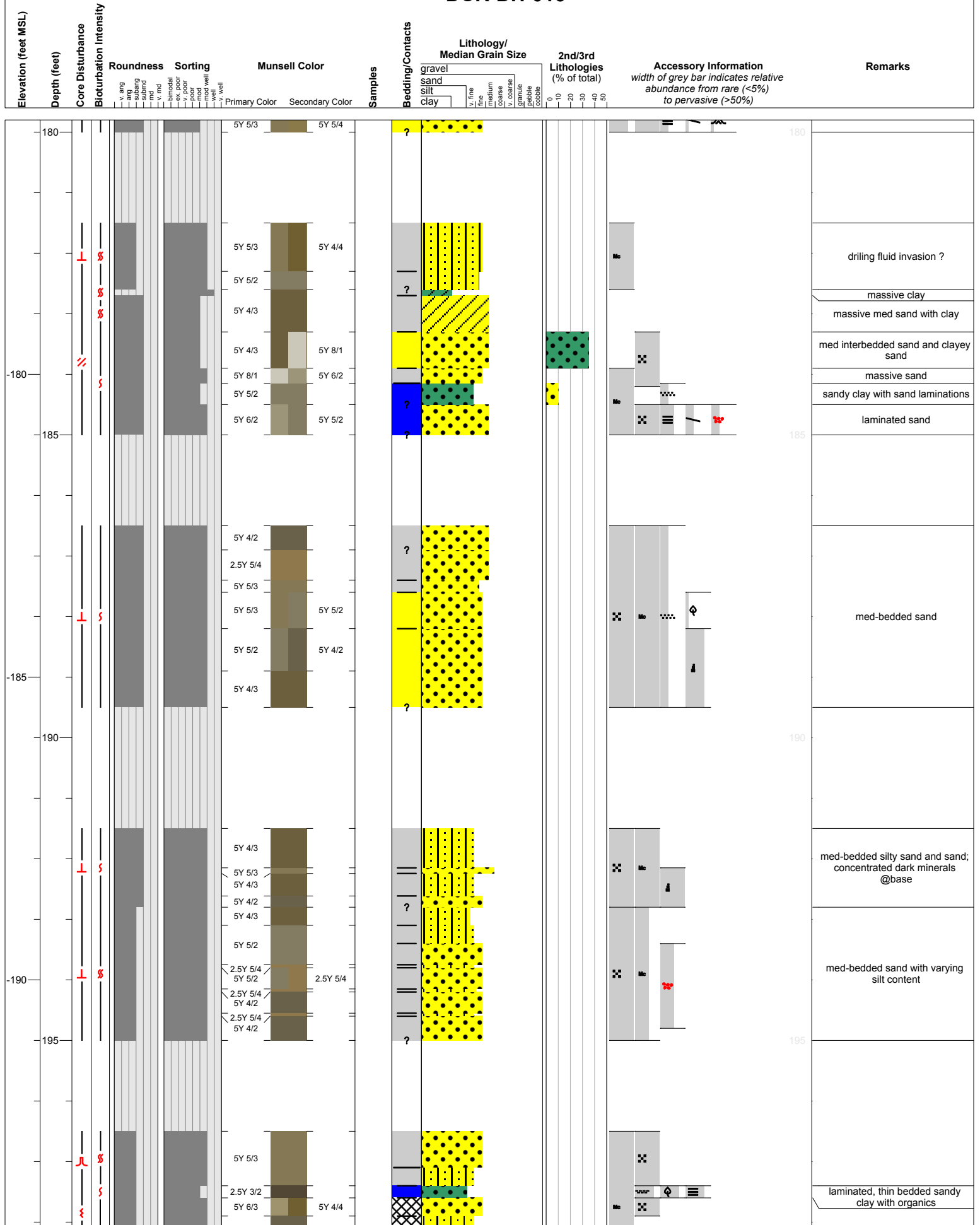
DCR-DH-016



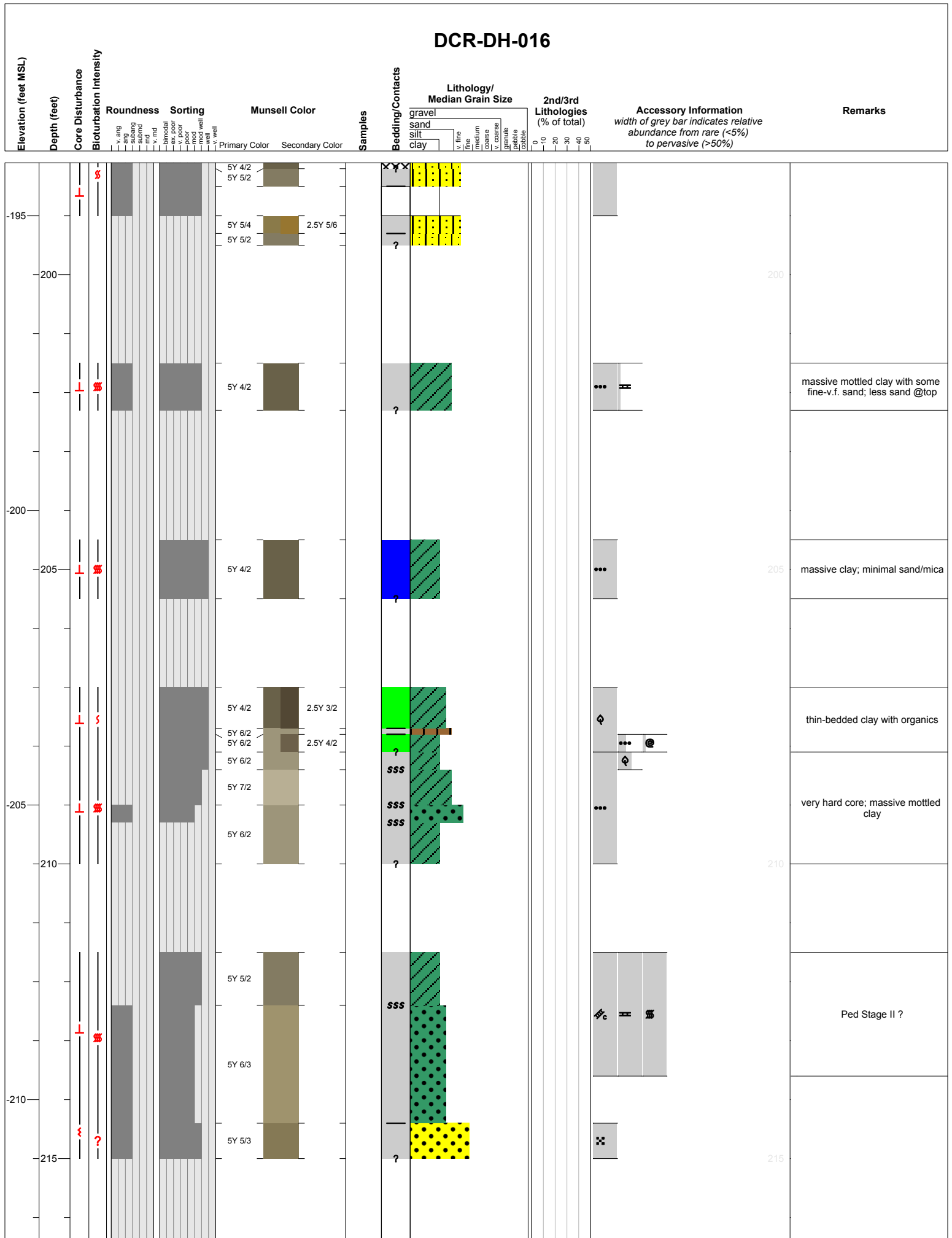
DCR-DH-016



DCR-DH-016



DCR-DH-016



DCR-DH-016

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subang v. and bimodal ex. poor v. poor poor mod mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		

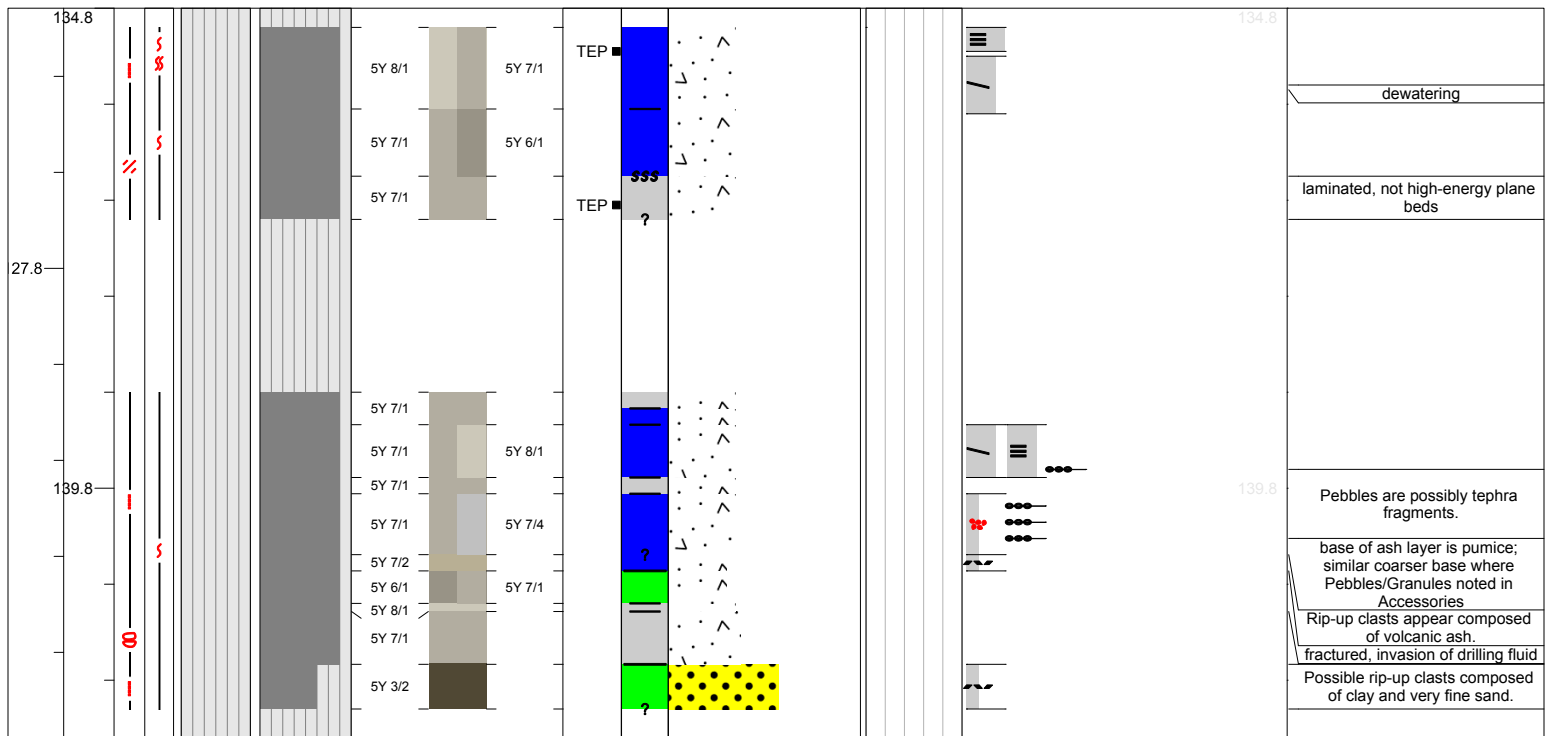
DCR3-DH-013

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subind ind v. ind bimodal poor v. poor mod mod well well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse granule cobble cobble	0 10 20 30 40 50		
131.5						5Y 6/2		5Y 6/3						
						5Y 7/2								
						5Y 7/1								
									TEP					
														131.5
														slightly upward fining between these two ash with mixed lithics units; 0.9-1 ft: Possible bioturbation noted as burrow and few disrupted laminations; 1-1.9 ft: slightly coarser than above because includes mica, biotite (dark mineral)

DCR4-DH-013

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang medium v. md bimodal ex. poor poor mod. fine well v. well		Primary Color Secondary Color			gravel sand silt clay			
									v. fine fine medium coarse very coarse granule pebble cobble	0 10 20 30 40 50		
134.4						5Y 5/2	SM					
						5Y 6/2	TEP					
						5Y 7/1						
27.8						5Y 7/2						
						5Y 5/2						
						2.5Y 8/1						
139.4						5Y 7/1						
						5Y 6/1	TEP					
						2.5Y 3/2						

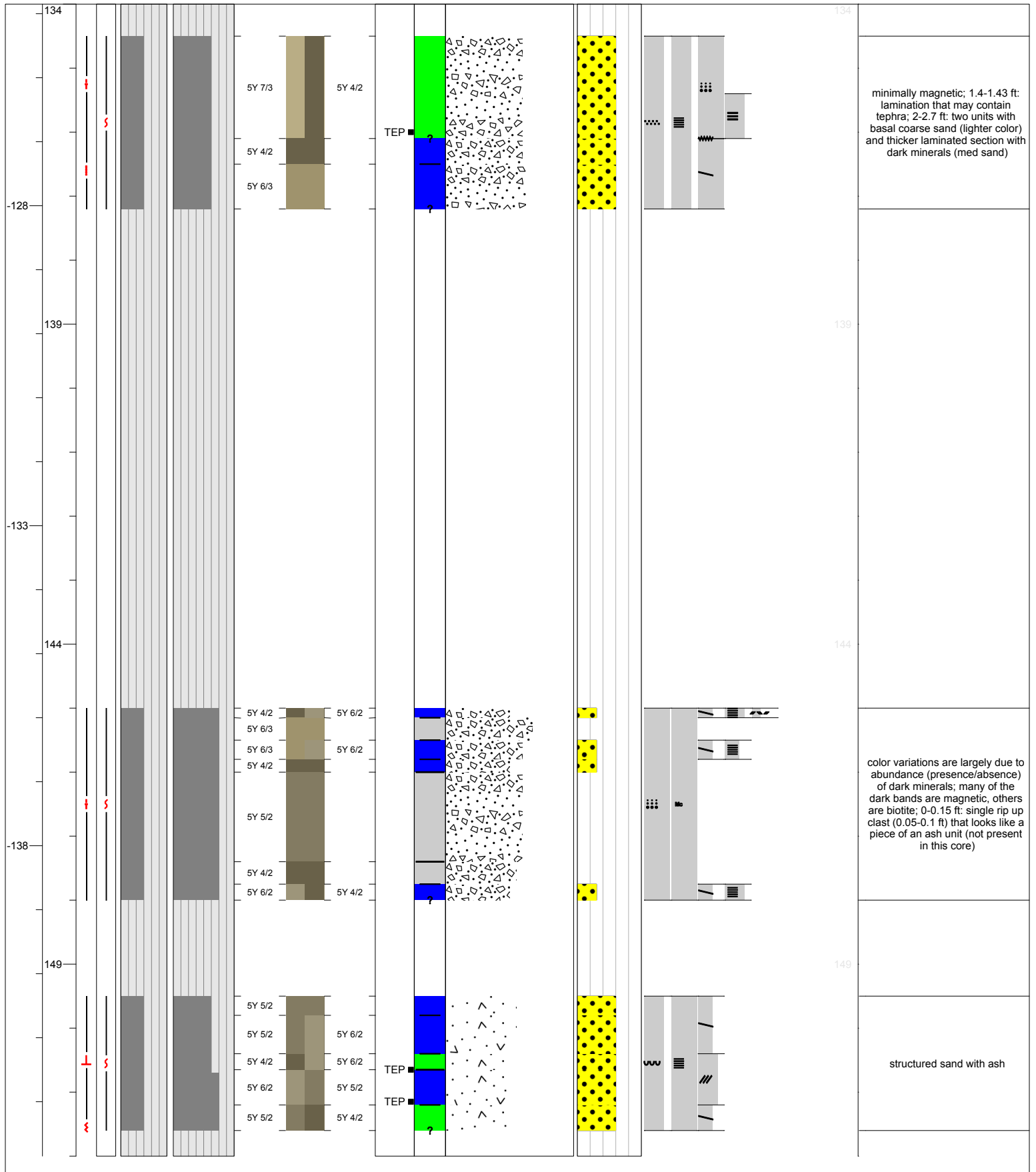
DCR4-DH-014												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse fine medium coarse	0 10 20 30 40 50		



DCR4-DH-015

DCR4-DH-015														
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color		Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks	
				v. ang ang subang subind ind v. ind bimodal v. poor poor mod mod well well v. well		Primary Color	Secondary Color			v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50			
133.8						5Y 8/1	5Y 7/1	TEP						
								TEP						dewatering and dish structures in lower part with more laminations
								TEP						

DCR5-DH-013												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang fine md v. md bimodal ex. poor poor mod well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule fine coarse cobble	0 10 20 30 40 50		



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbati

Ro

Sorting

Munsell Color

Samples

Secondary Color

Samples

Bedding/Contacts

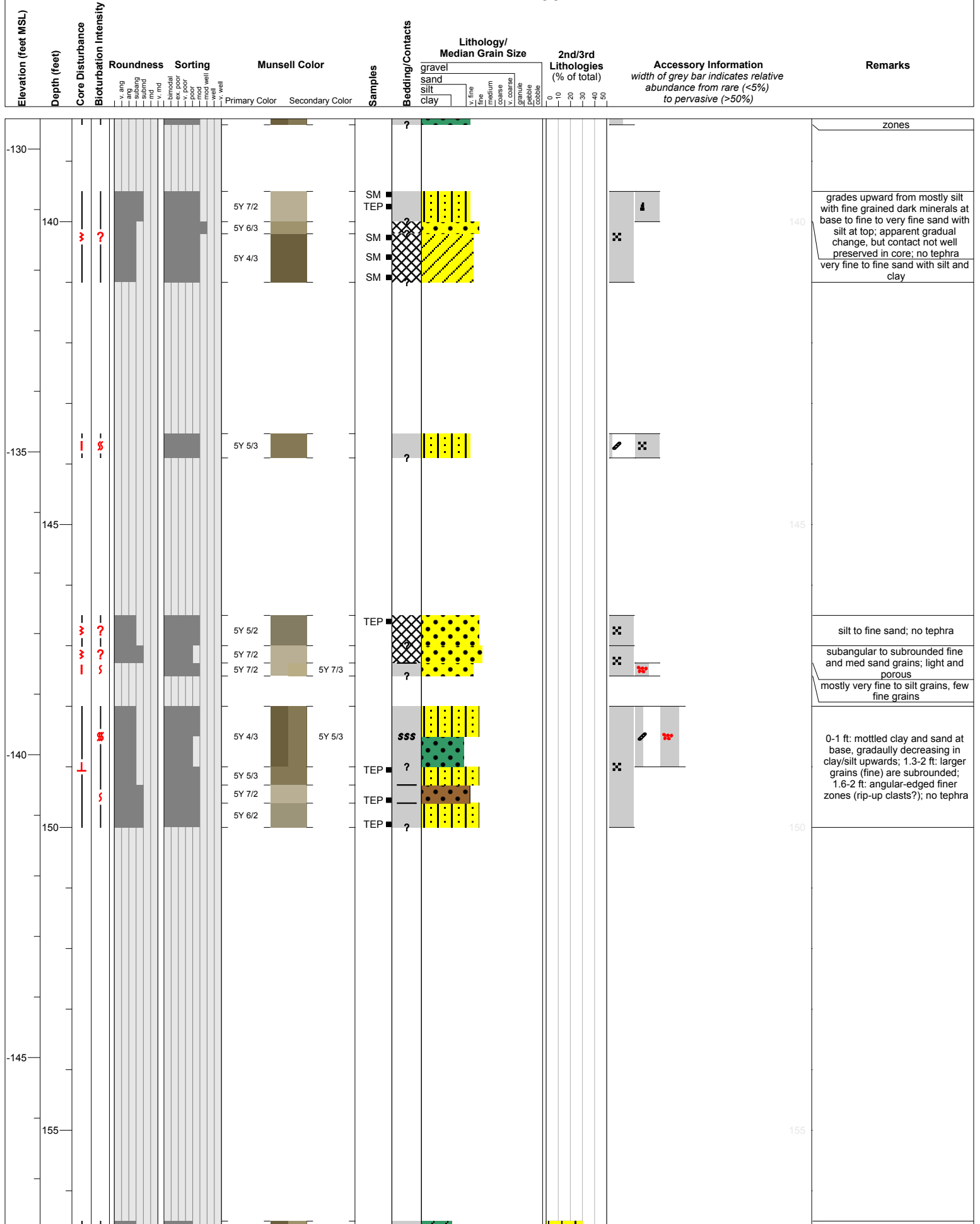
Lithology/ Median Grain Size	Level and
v. fine fine medium coarse v. coarse granule	

**2nd/3rd
Lithologies
(% of total)**

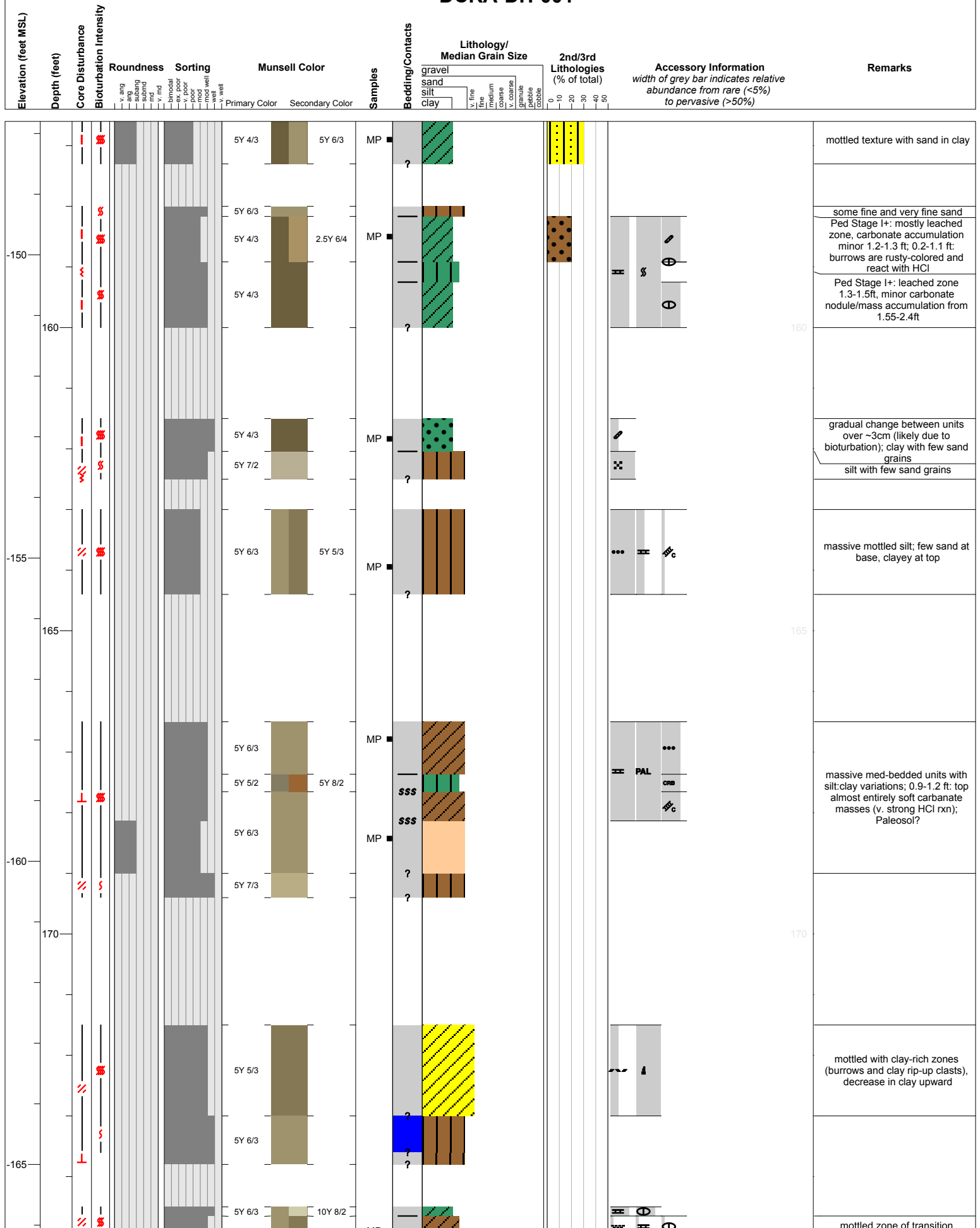
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

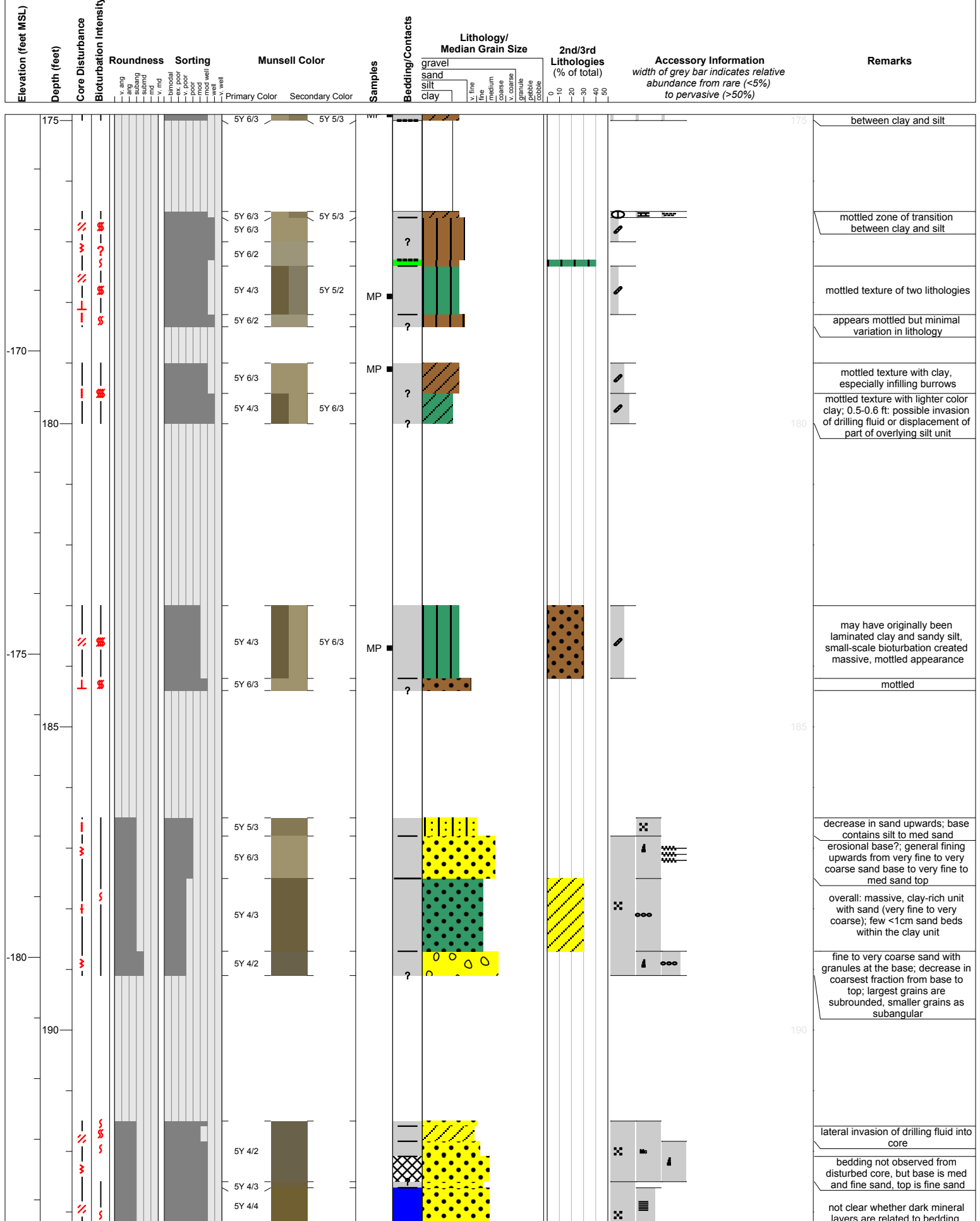
DCRA-DH-001



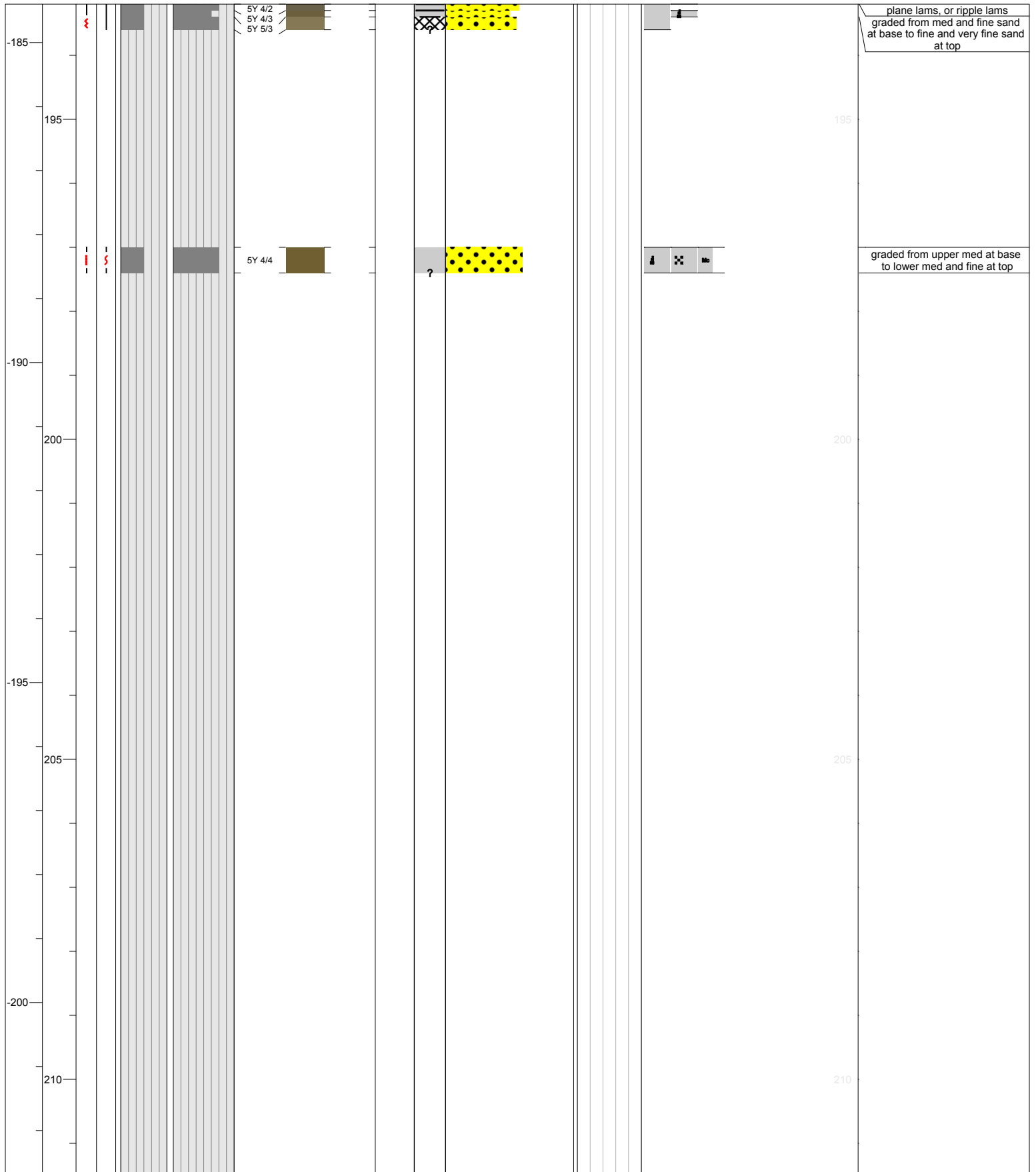
DCRA-DH-001



DCRA-DH-001



DCRA-DH-001												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang		Primary Color			gravel			
				ang					sand			
				subang					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					fine			
				well					medium			
				v. well					coarse			
									fine			
									medium			
									coarse			
									fine			
									medium			
									coarse			
									fine			
									medium			
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									fine			
									medium			
									coarse			
									fine			
									medium			
									coarse			
									fine</			



Elevation (feet MSL)

Core Disturbance	Bioturbation Intensity
------------------	------------------------

Remarks

225

-220-

graded from med to very coarse sand with granules at base to med and fine sand at top; very coarse sand is subangular, but pebbles/granules are subrounded

Elevation (feet MSL)

Core Disturbance

Ro

Primary Color	Secondary Color
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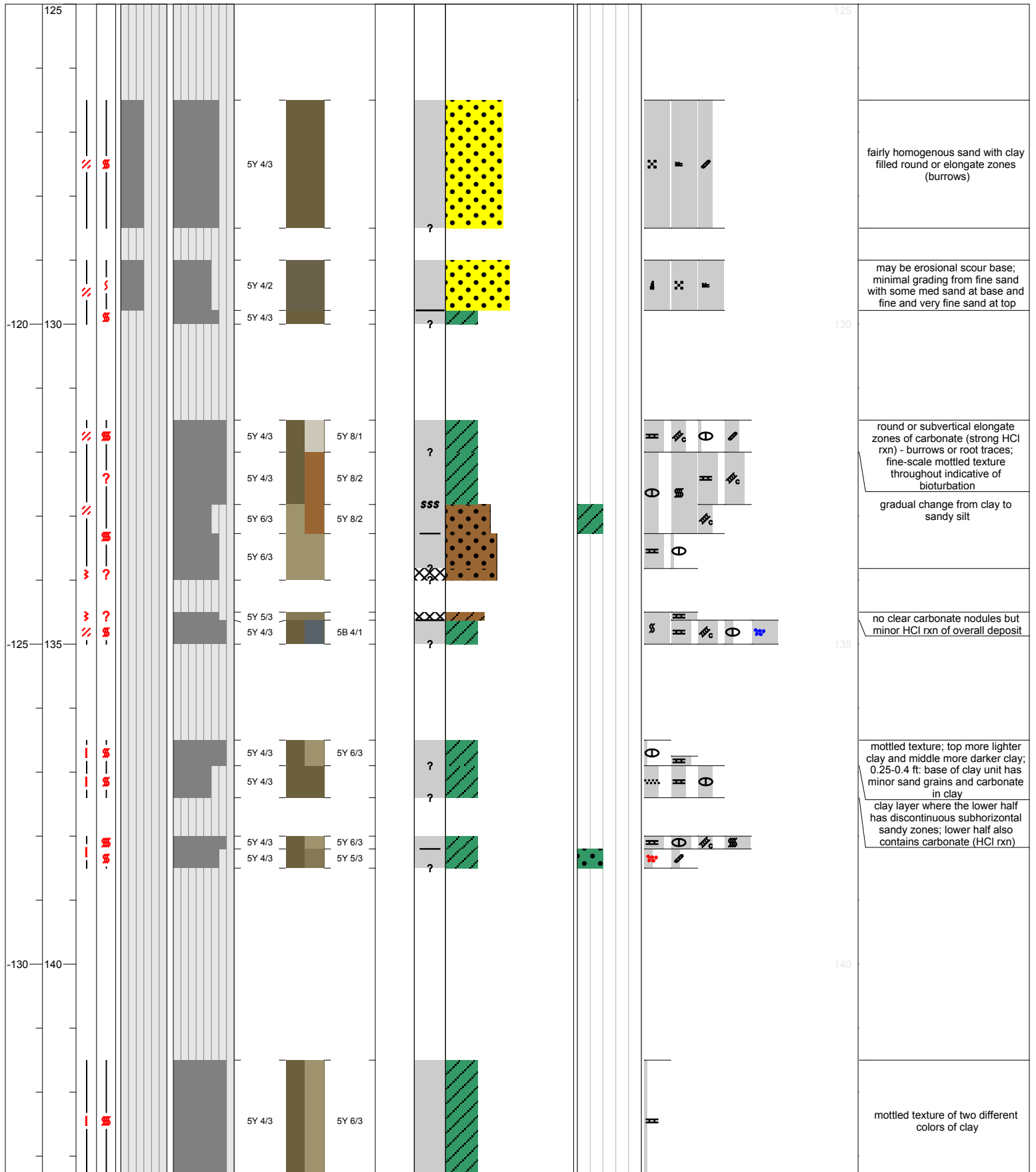
Bedding/Contacts

1

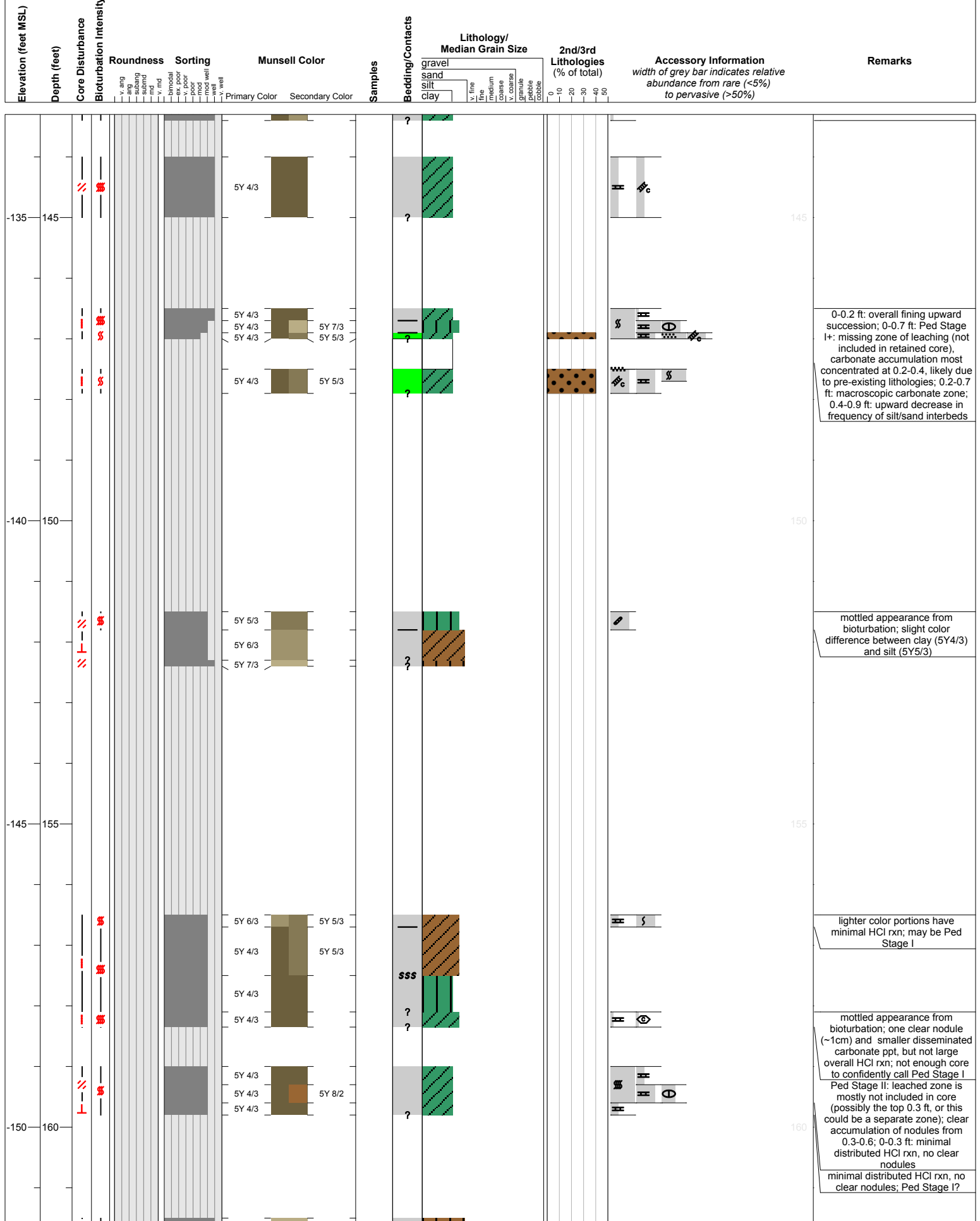
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

DCRA-DH-002										
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang ind v. ind bimodal ex. poor poor mod well v. well		Primary Color Secondary Color		gravel sand silt clay v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50	



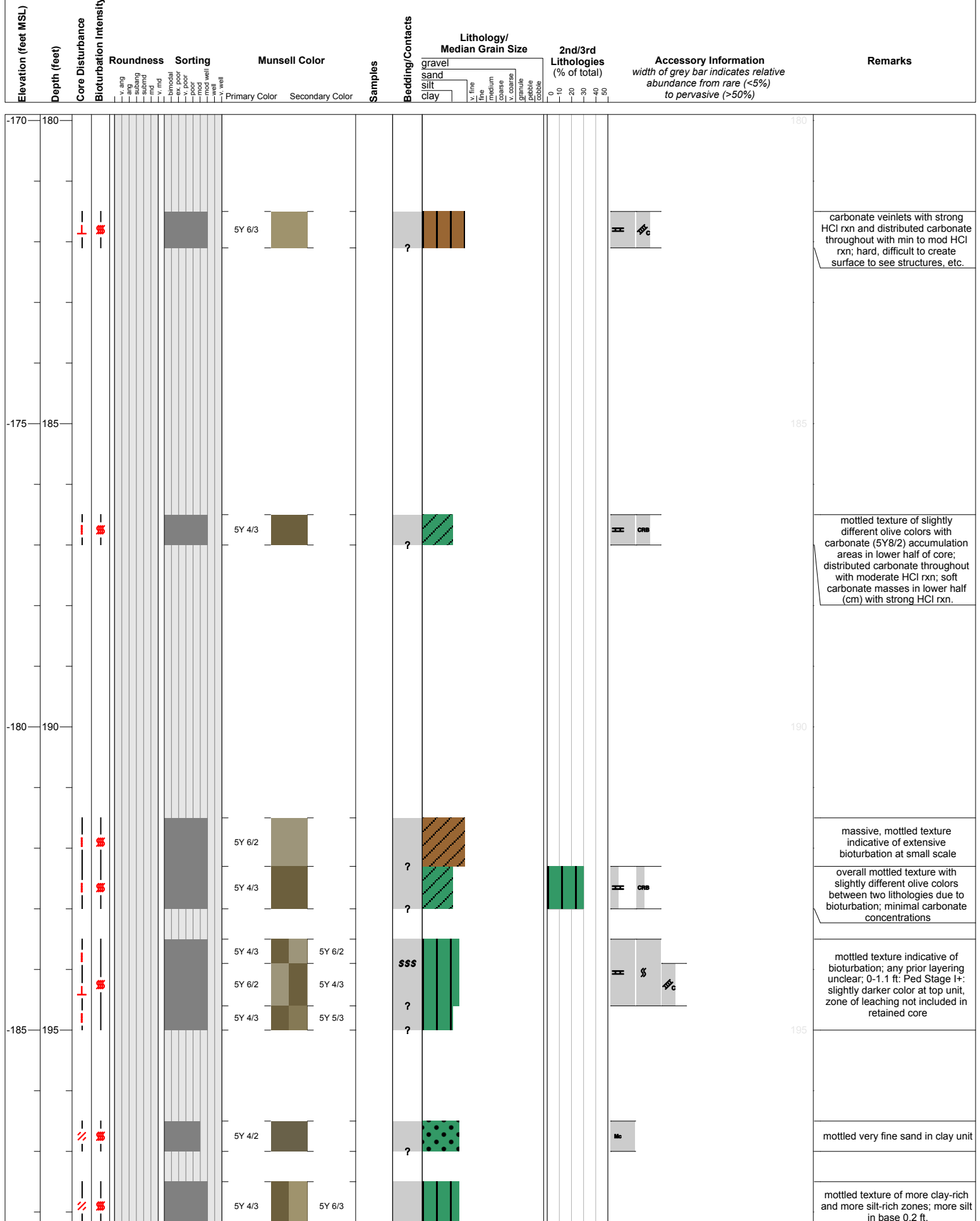
DCRA-DH-002



DCRA-DH-002

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang subind ind v. md bimodal poor v. poor mod mod well well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
						5Y 7/3			TEP	?				
						5Y 4/3		5Y 5/3		?				
						5Y 4/3		5Y 5/4		?				may be distributed very fine carbonate, but no clear HCl rxn; 0.7-1.1 ft: mottled texture with upward increase in silt content (lighter color)
						5Y 4/3		5Y 5/3		?				mottled appearance with two slightly different colors, greater at top; due to bioturbation
-155	165					5Y 7/3			TEP	?				
						5Y 4/3				?				mottled appearance, very hard and difficult to create nice surface to view bioturbation, structures, etc.
						5Y 4/4				?				Ped Stage I: leached zone not retained in core; 0-0.35 ft: distributed carbonate with moderate HCl rxn throughout; 0.35-0.5 ft: distributed carbonate continues; concentrated carbonate in burrows/small roots (mm diameter)
														carbonate with HCl rxn concentrated in mm burrows/root traces
-160	170													
						5Y 4/3			TEP	?				general fining upward from mostly fine sand to mostly very fine sand; also contains silt and clay; small (cm) carbonate nodules
										?				approx. same grain sizes present but less sand and more clay than above; small (cm) soft carbonate masses
						5Y 4/3				?				mostly sand but also significant % clay and silt
-165	175					5Y 4/3		5Y 6/3		?				mottled texture of two colors, possibly two phases of bioturbation; may have originally been more bedded
						5Y 4/3		5Y 6/3		?				Overall thickly bedded silty clay unit with varying silt content (color); 0.6-0.9 ft: may have originally been more thinly bedded, disturbed by bioturbation
						5Y 6/3		5Y 4/3		?				
						5Y 4/3		5Y 6/3		?				
						5Y 4/3		5Y 5/3		?				somewhat massive appearance due to bioturbation, but originally thinly bedded sand-rich layers within clay

DCRA-DH-002



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

Sorting

Munsell Color

Color	Secondary Color
Blue	Orange
Green	Red
Yellow	Purple
Pink	Grey
Black	White

Samples

Bedding/Contacts

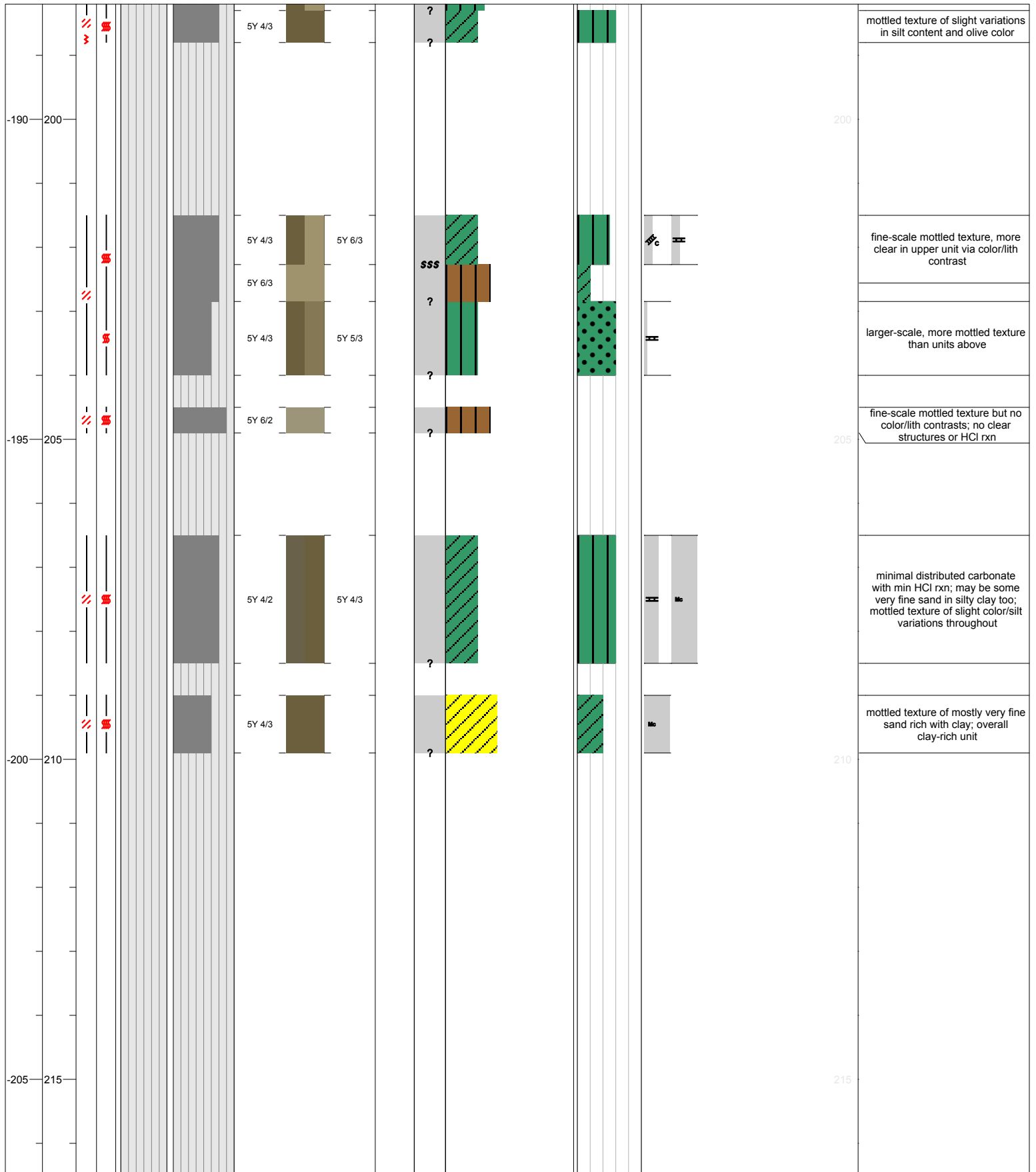
**Lithology/
Median Grain Size**

gravel	
sand	
silt	v. fine
clay	fine
	medium
	coarse
	v. coarse
	granule
	pebble
	cobble

Lithologies
(% of total)

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Re

Sorting

Munsell Color
y Color Secondary

Samples

Bedding/Contacts

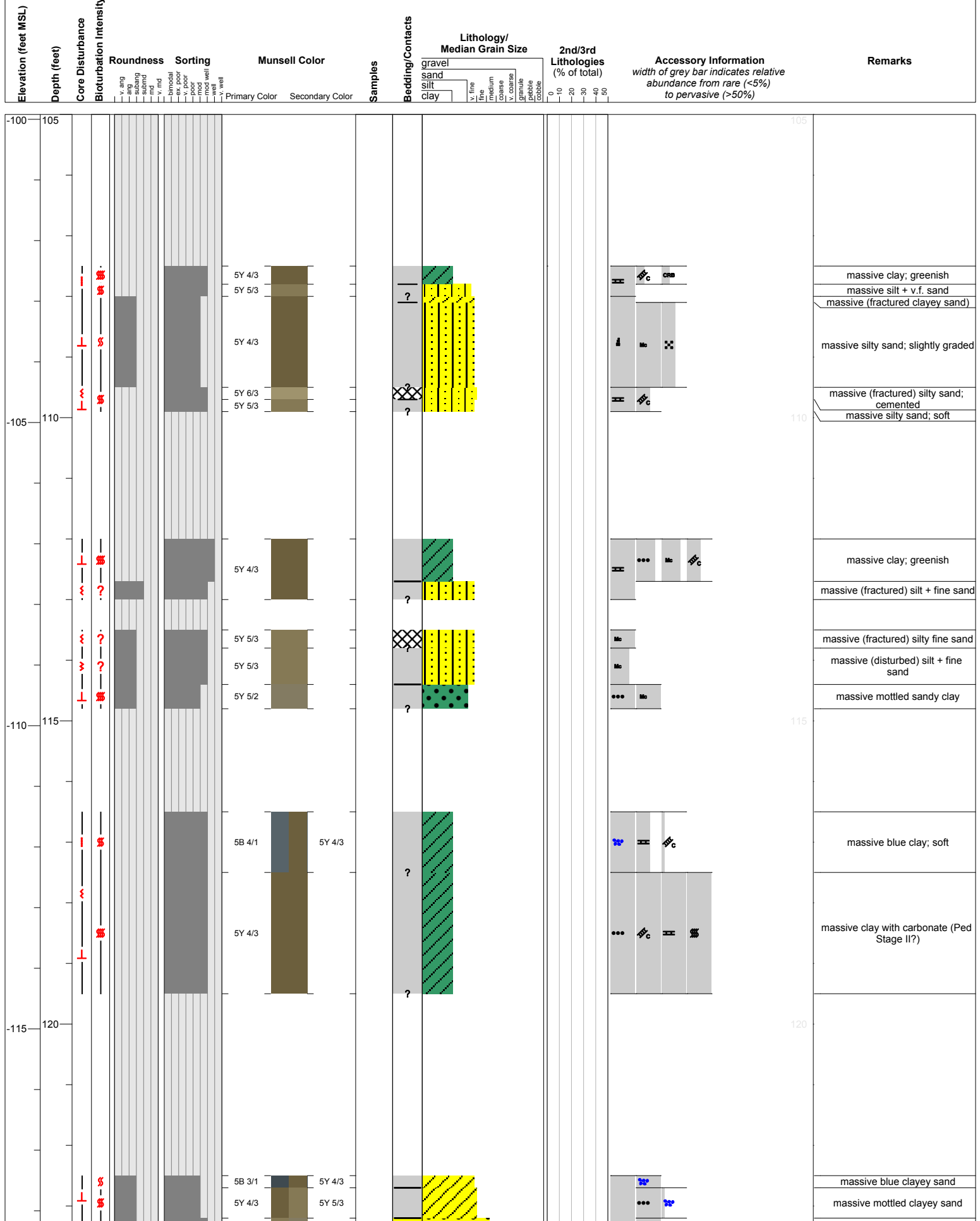
**Lithology/
Median Grain Size**

**2nd/3rd
Lithologies
(% of total)**

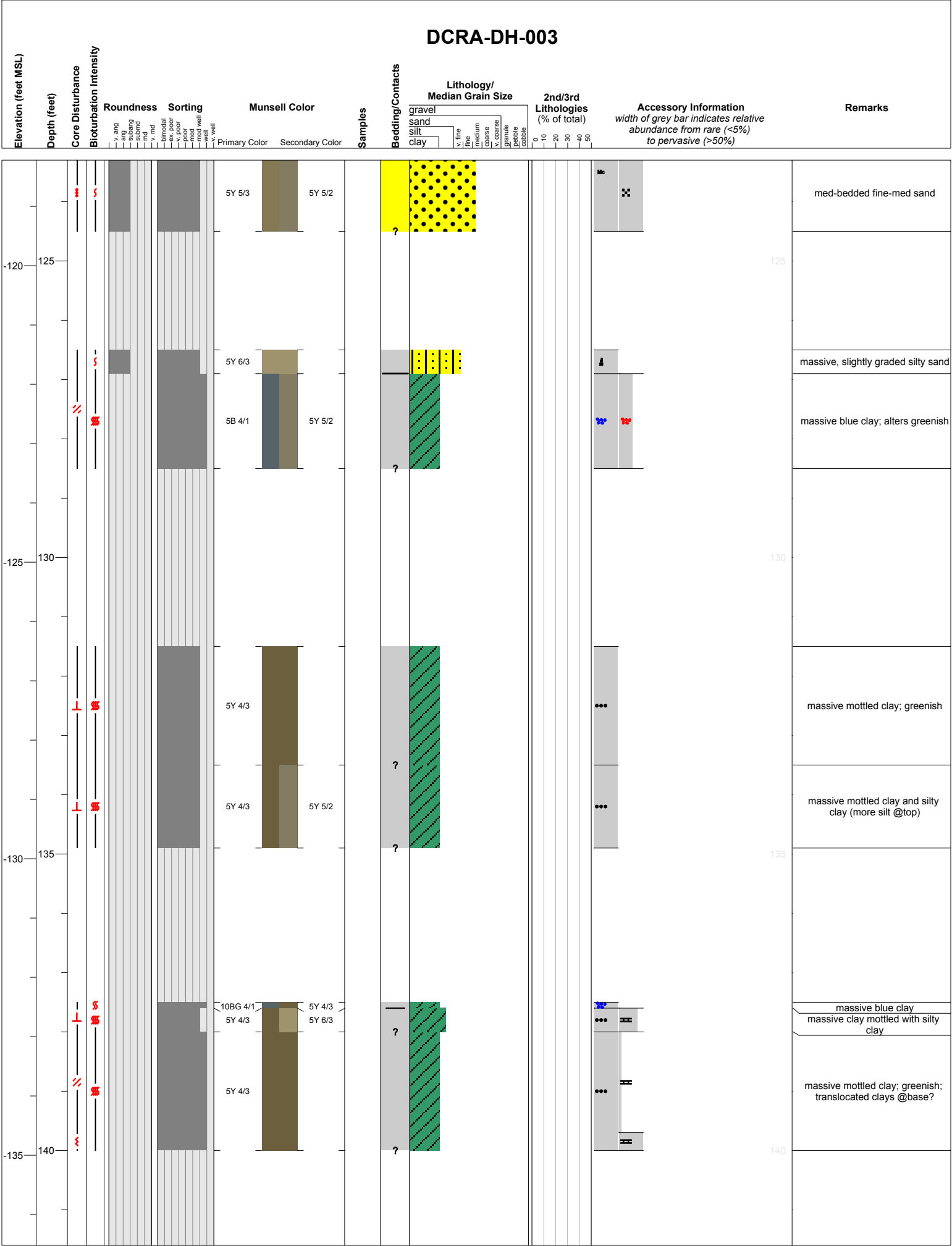
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

DCRA-DH-003



DCRA-DH-003



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

Sorting

Munsell Color

Samples

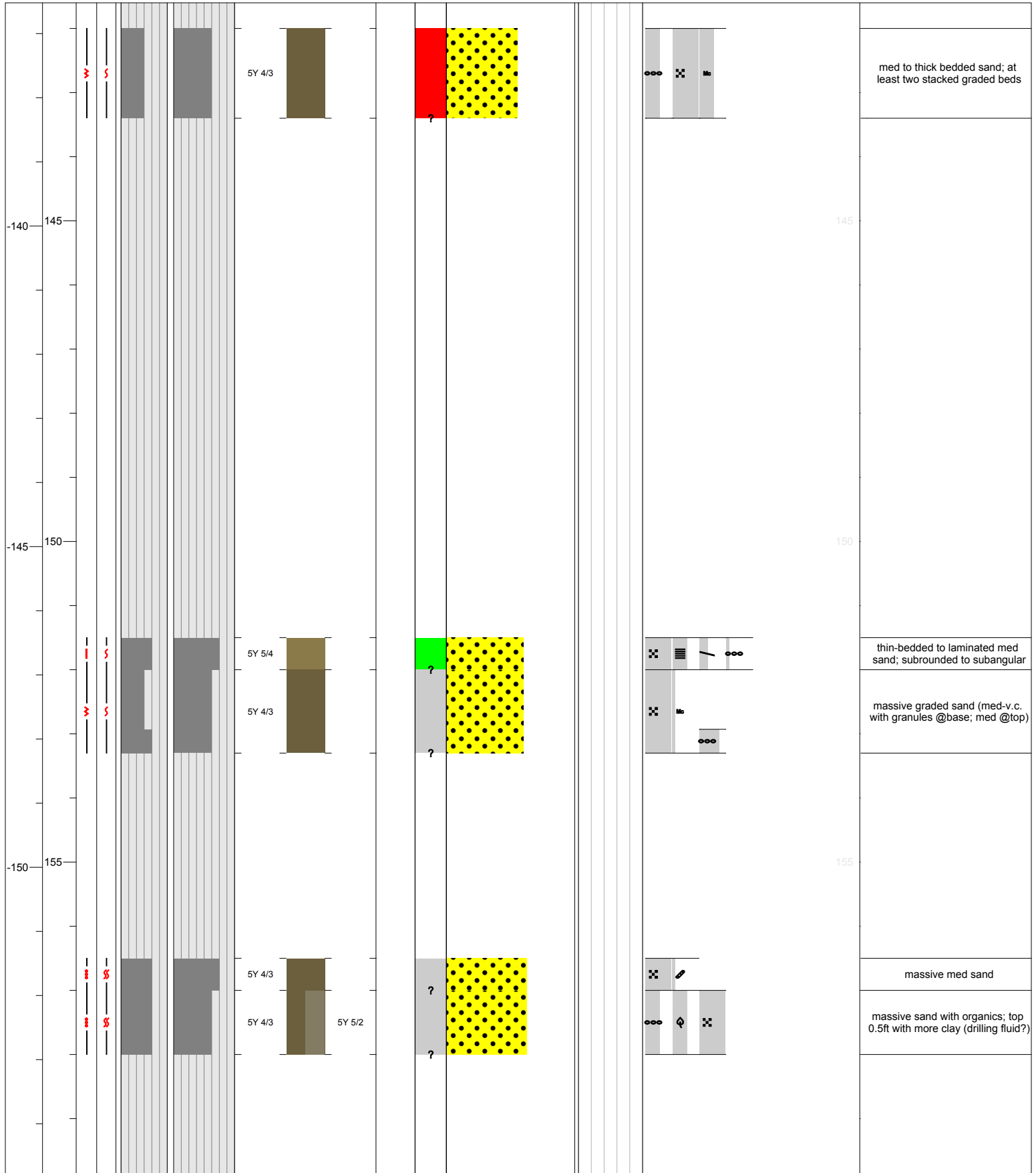
Bedding/Contacts

Lithology/ Median Grain Size	Level and
v. fine fine medium coarse v. coarse granule	

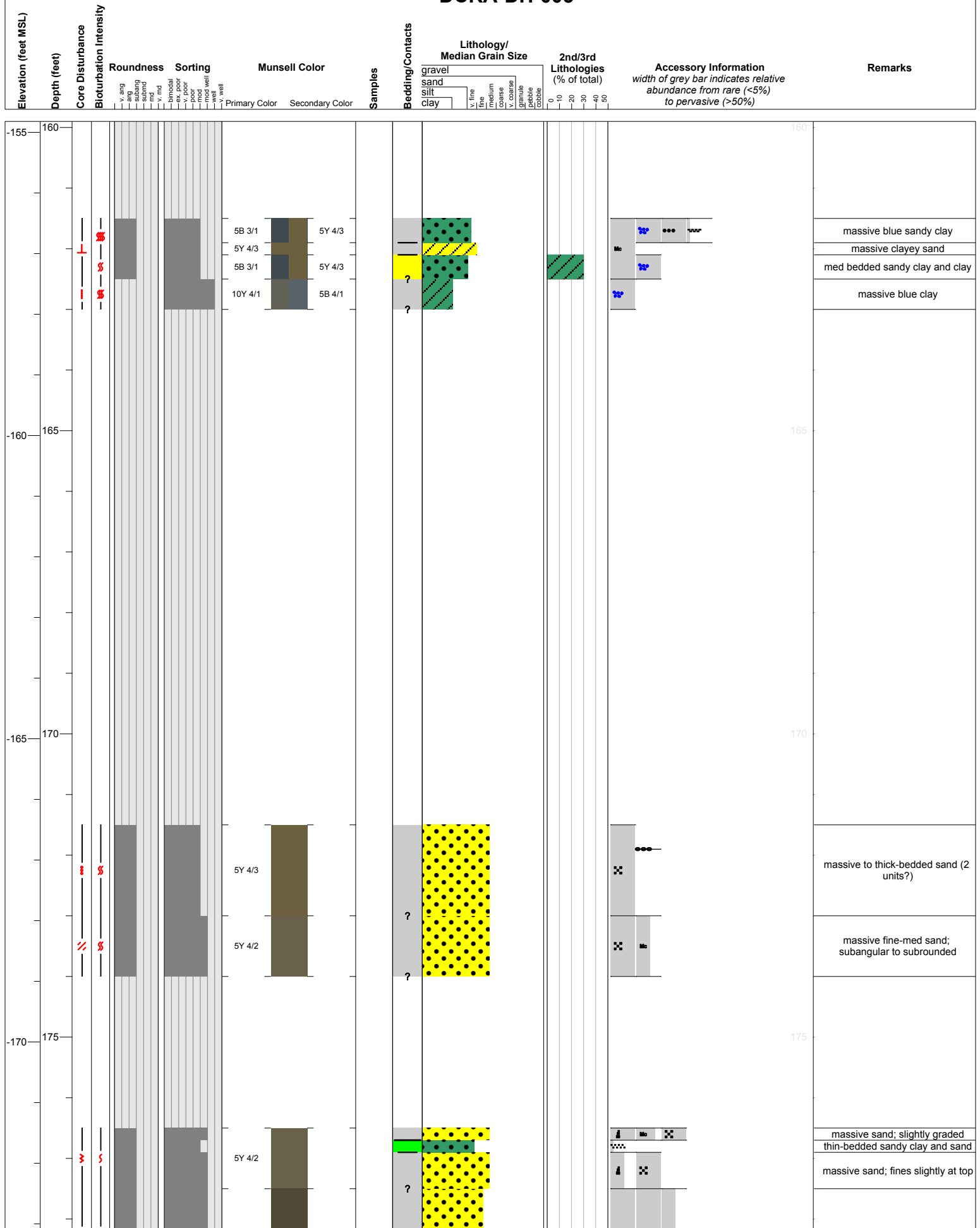
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

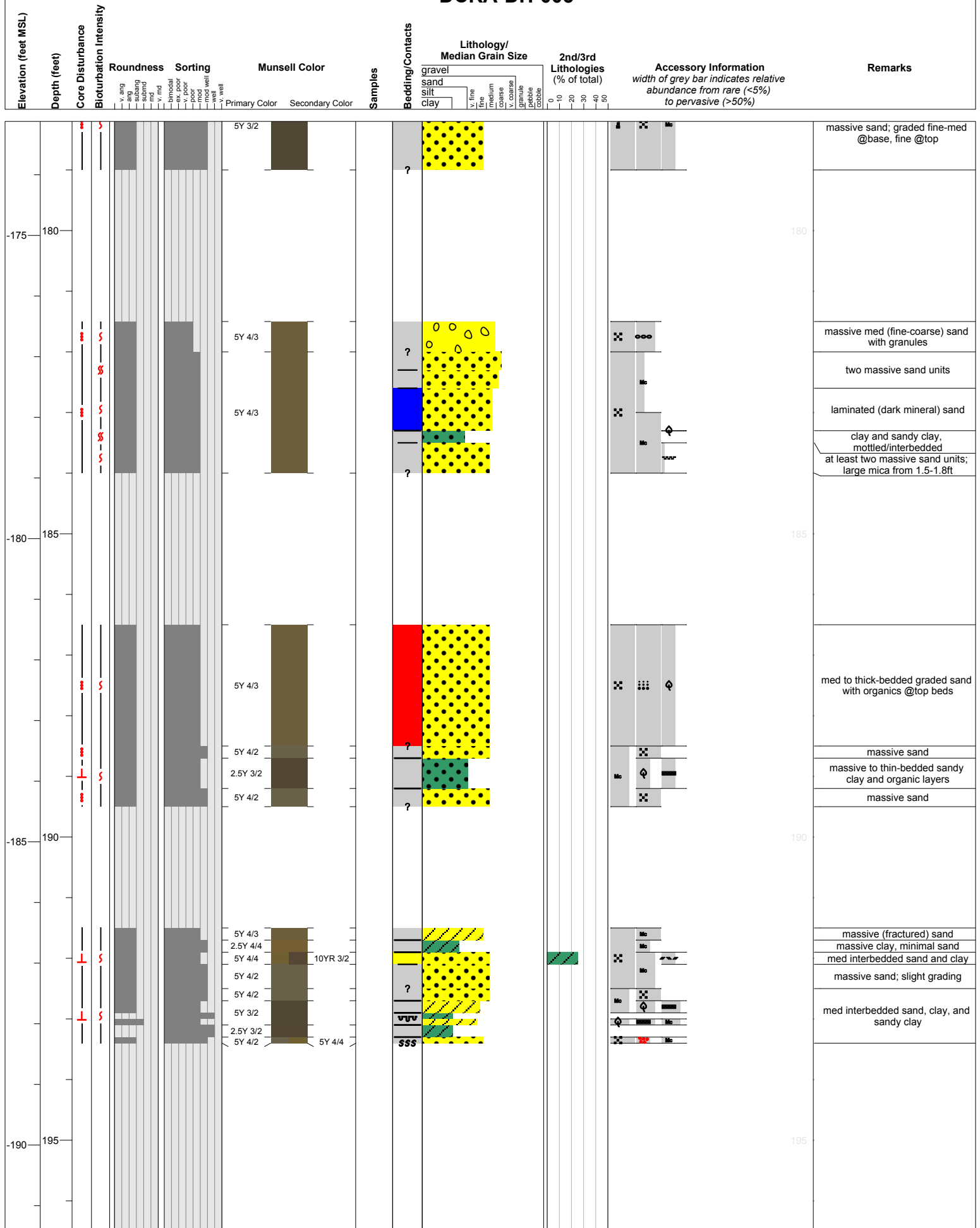
Remarks



DCRA-DH-003



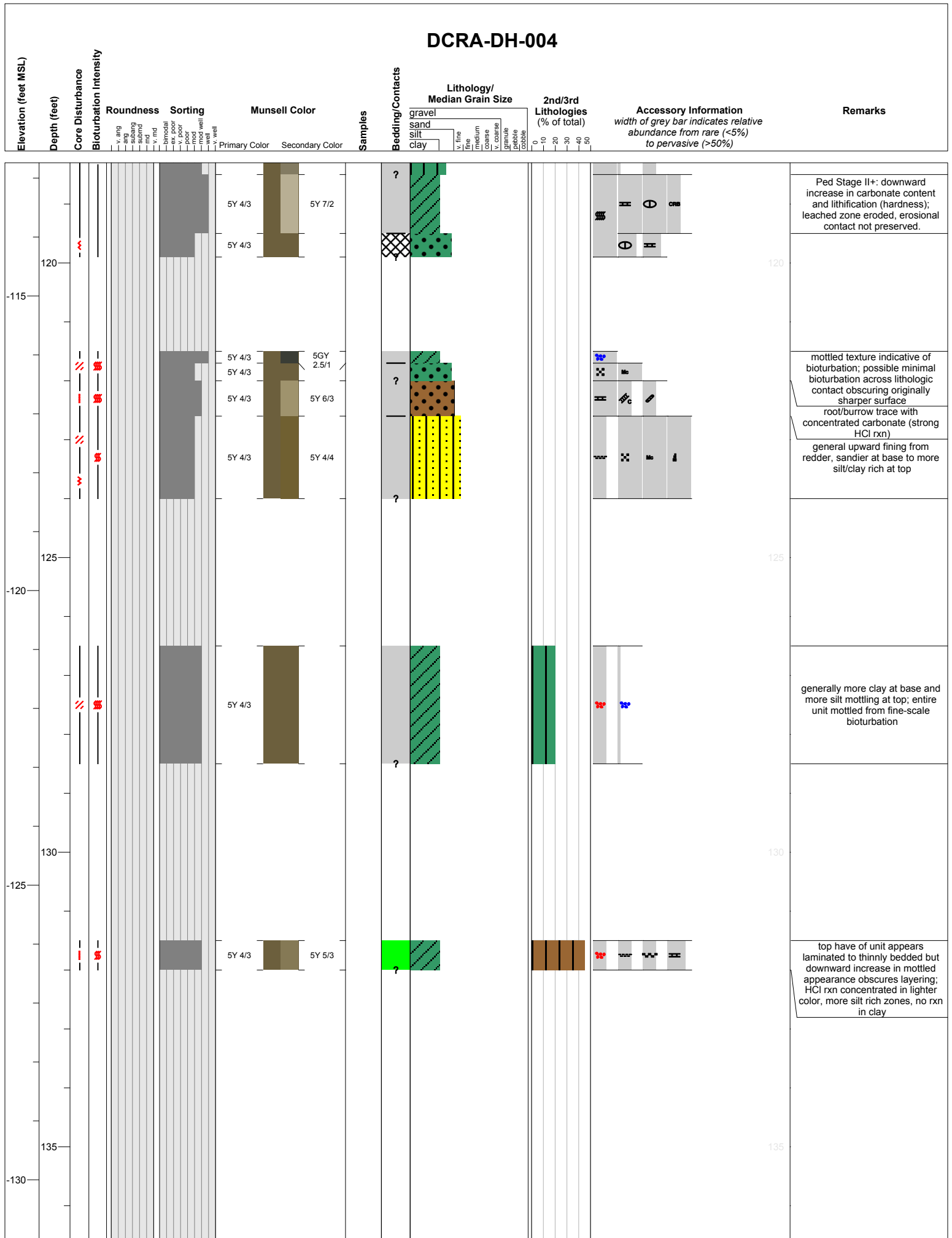
DCRA-DH-003



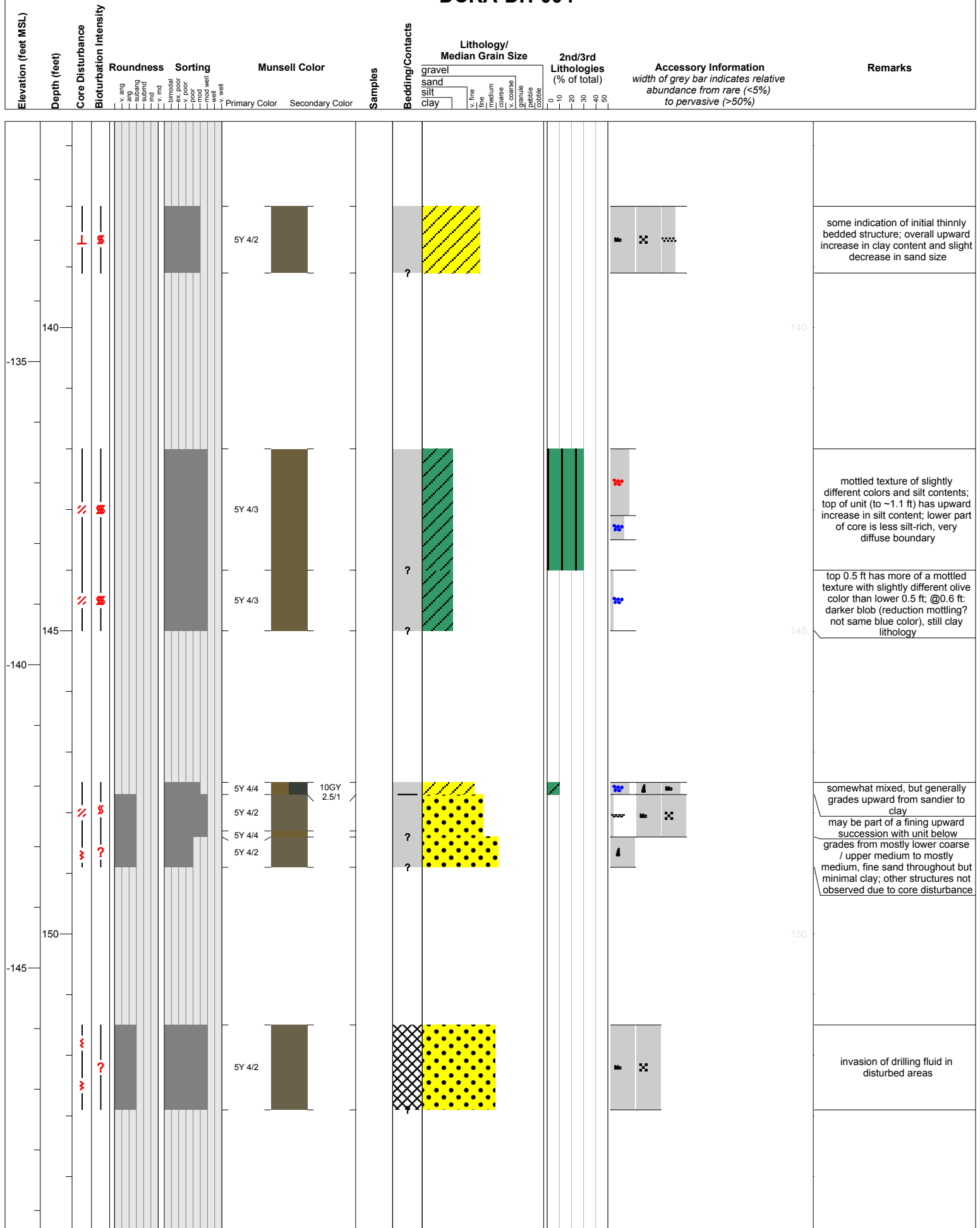
DCRA-DH-003												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang		Primary Color			gravel			
				ang		Secondary Color			sand			
				subang					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					gravel			
				well					fine sand			
				v. well					coarse sand			
									pebbles			
									cobbles			
										0		
										10		
										20		
										30		
										40		
										50		

[illegible]

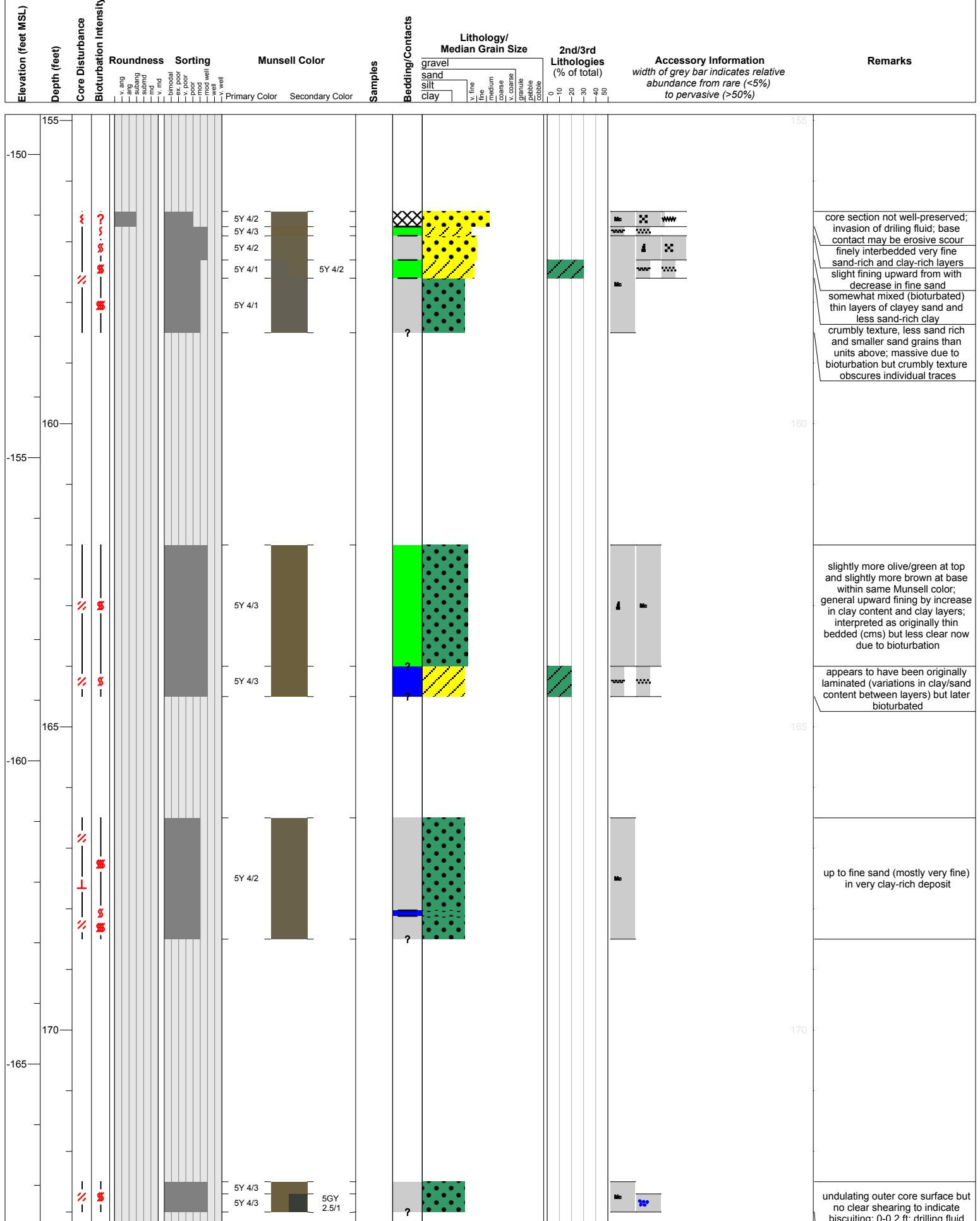
DCRA-DH-004



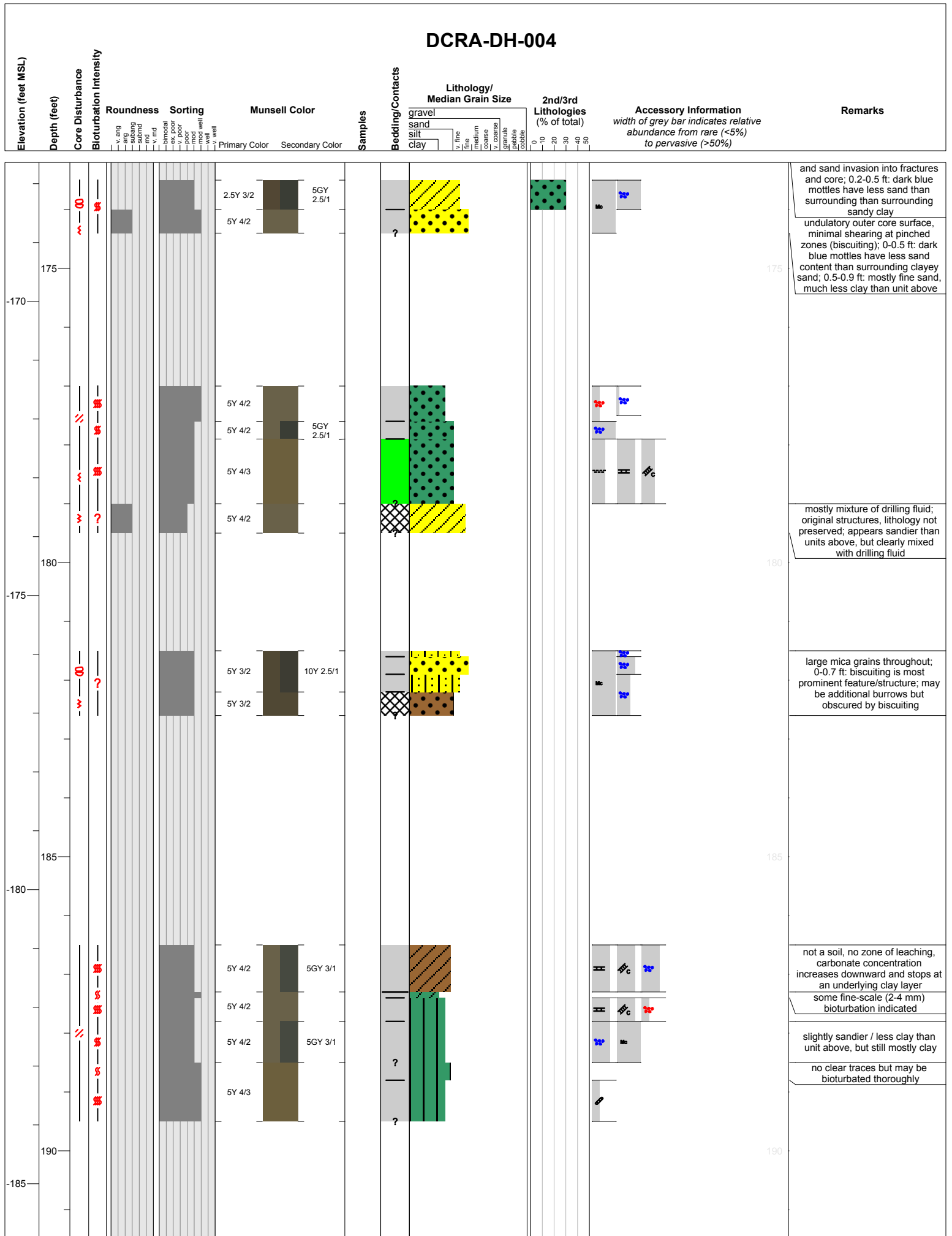
DCRA-DH-004



DCRA-DH-004



DCRA-DH-004



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Ro

Sorting

Munsell Color

Primary Color	Secondary Color
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Samples

Bedding/Contacts

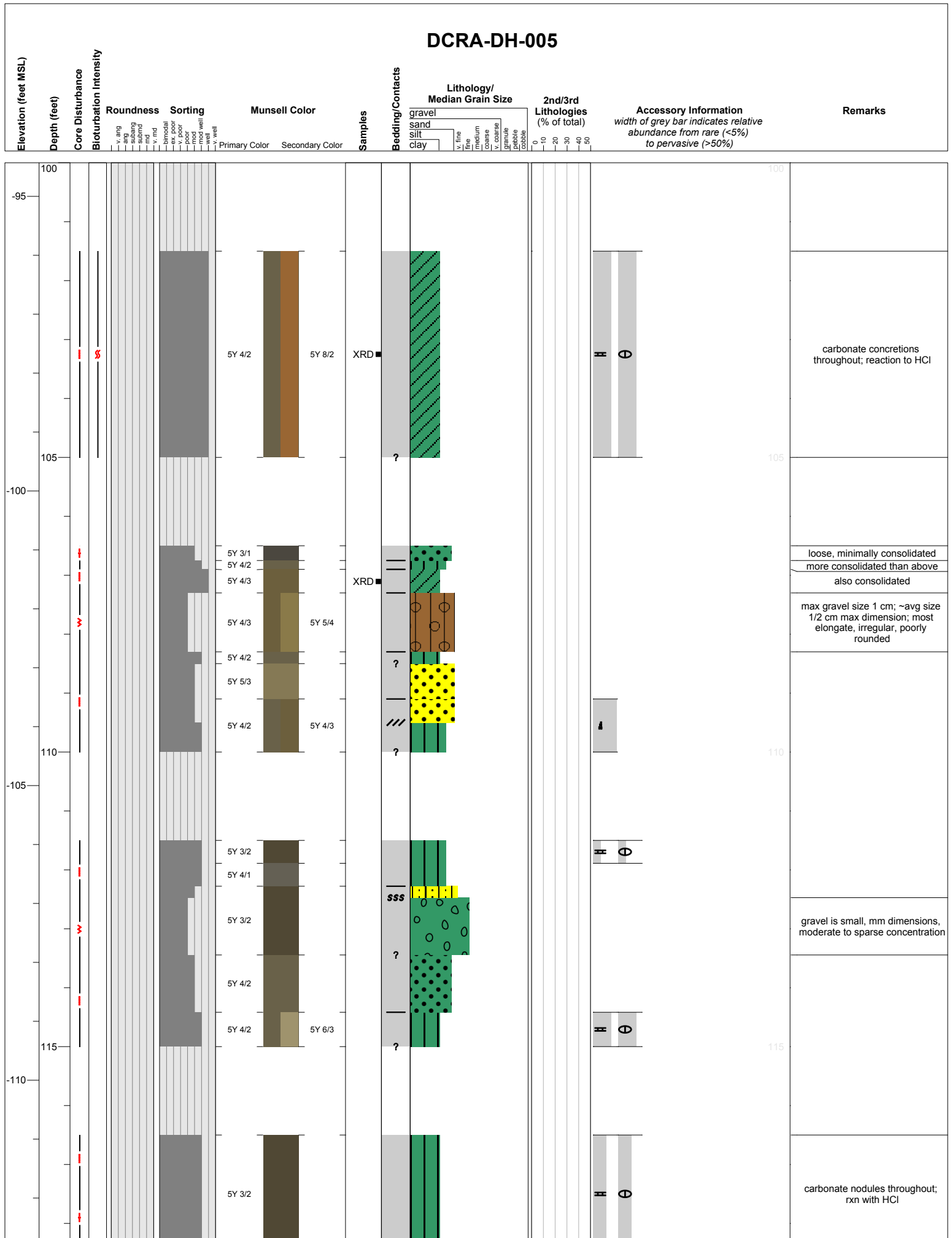
Lithology/
Median Grain Size

**2nd/3rd
Lithologies
(% of total)**

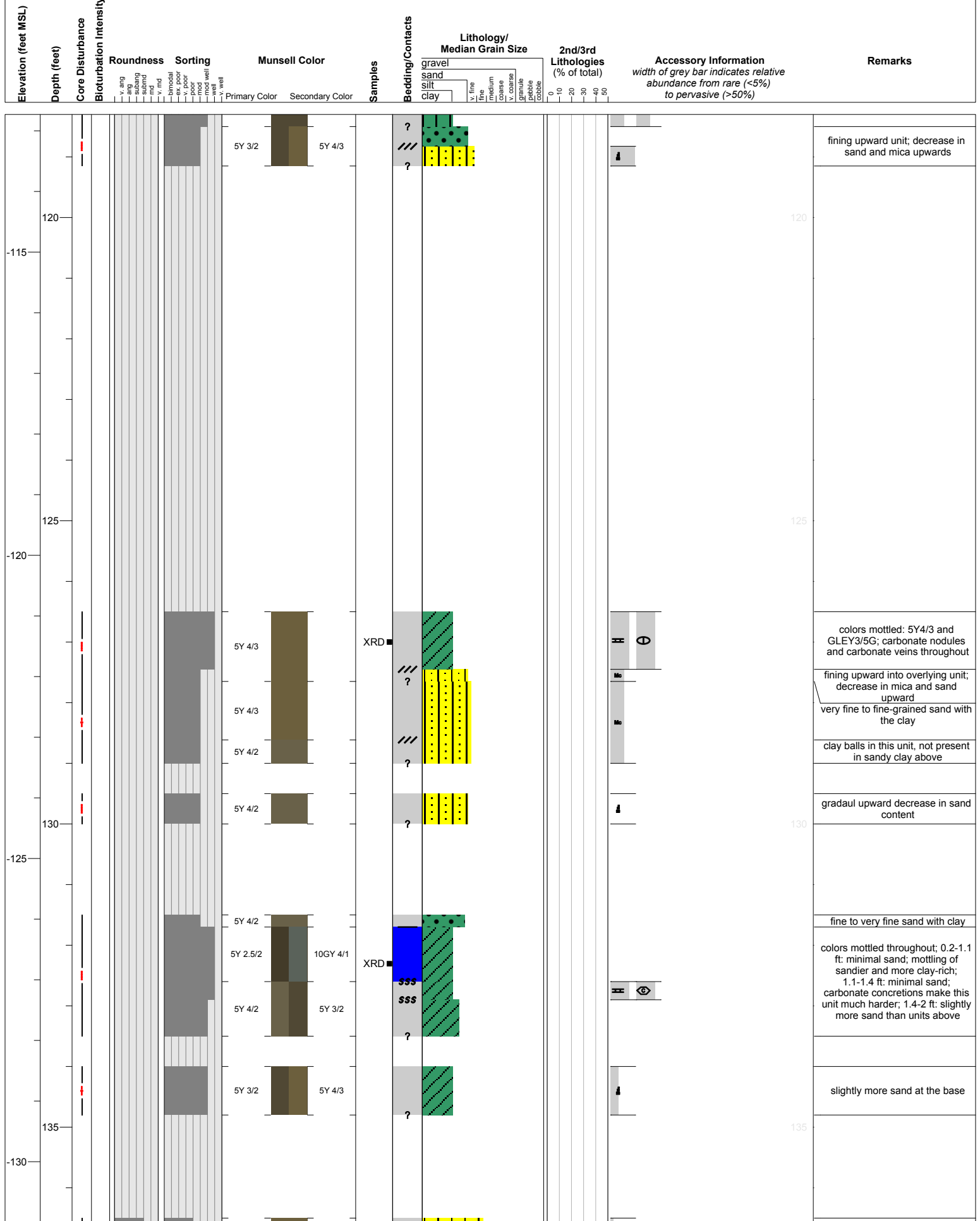
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

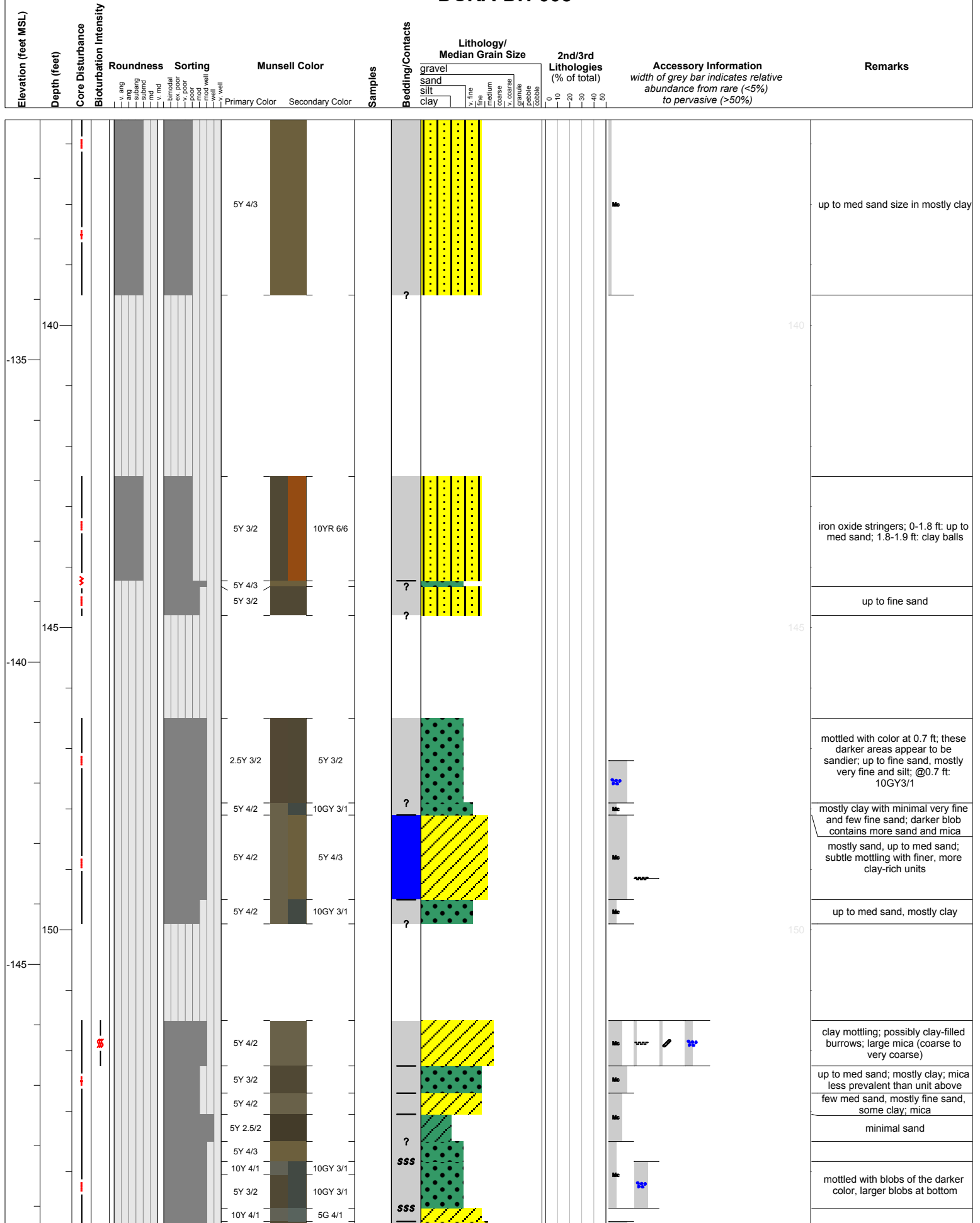
DCRA-DH-005



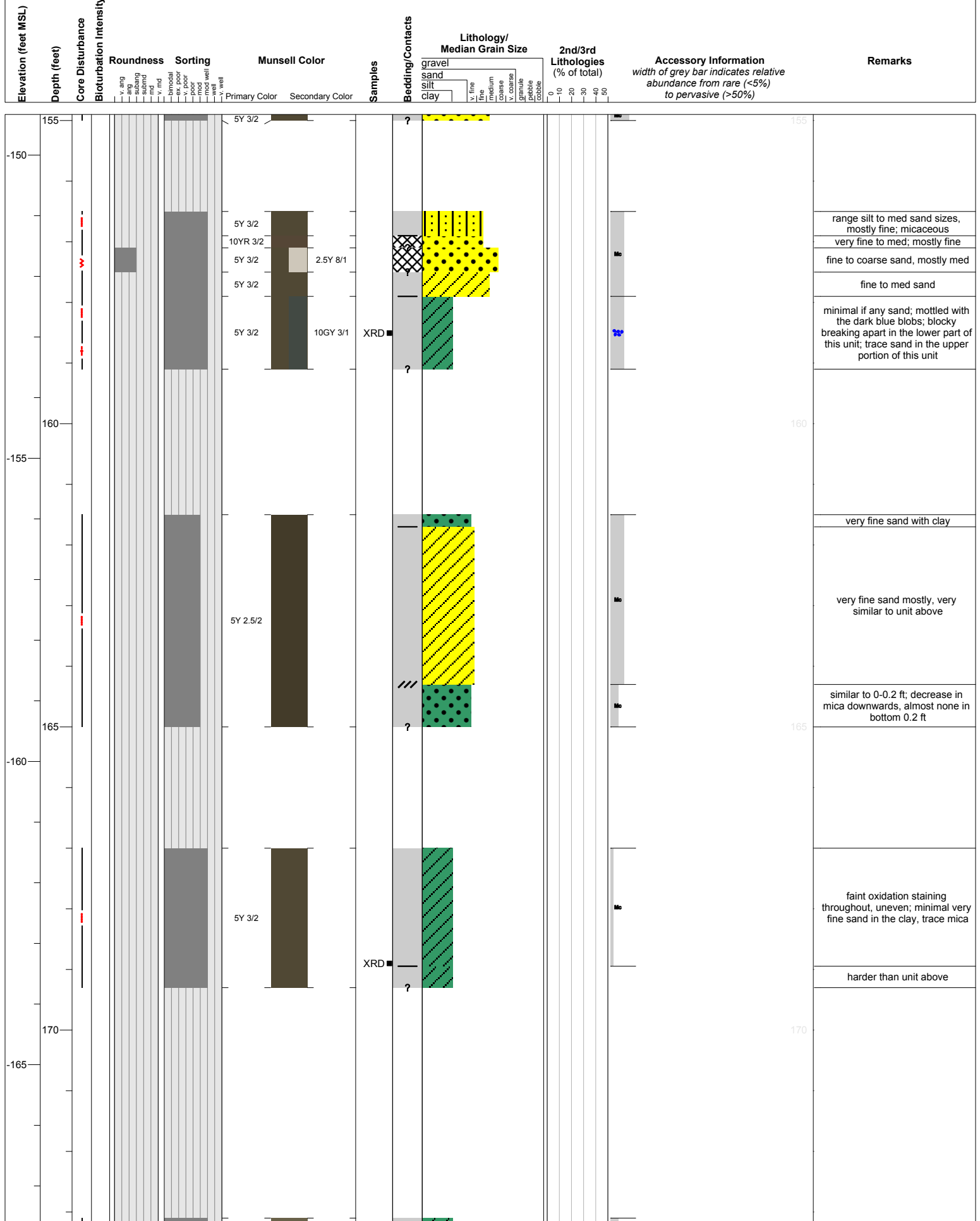
DCRA-DH-005



DCRA-DH-005



DCRA-DH-005



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Ro

Sorting

Munsell Color

Primary Color	Secondary Color
---------------	-----------------

Samples

Bedding/Contacts

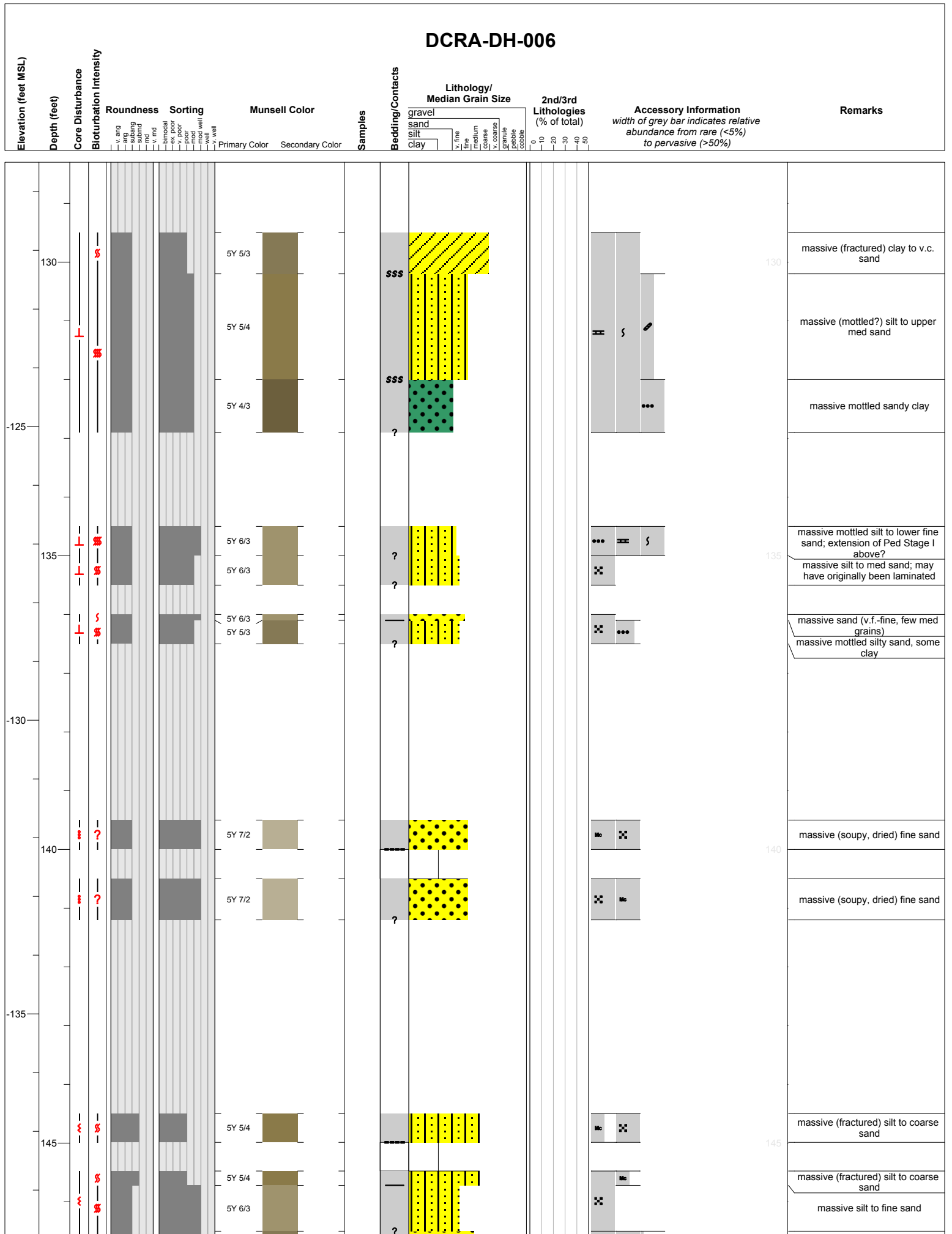
Lithology/
Median Grain Size

**2nd/3rd
Lithologies
(% of total)**

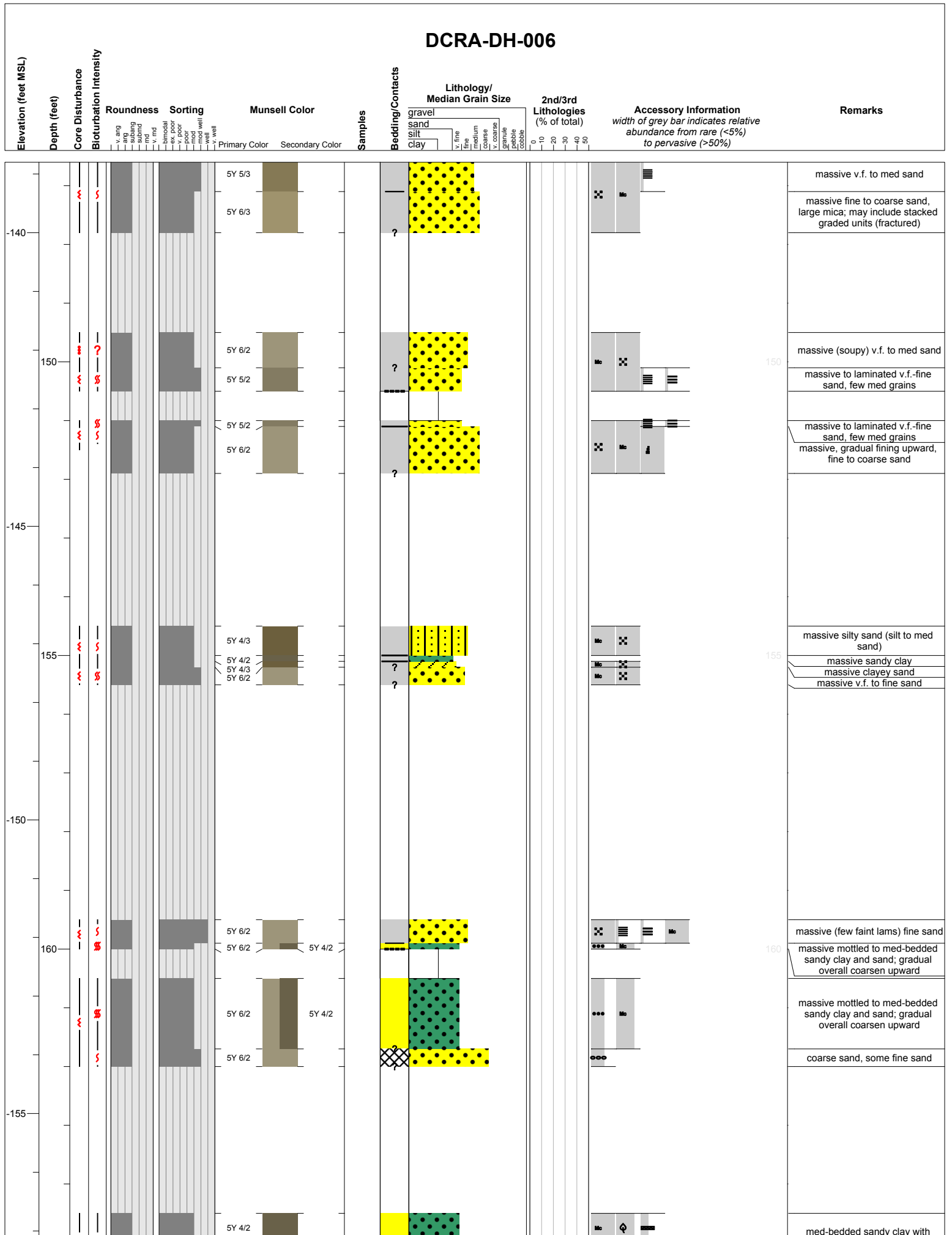
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

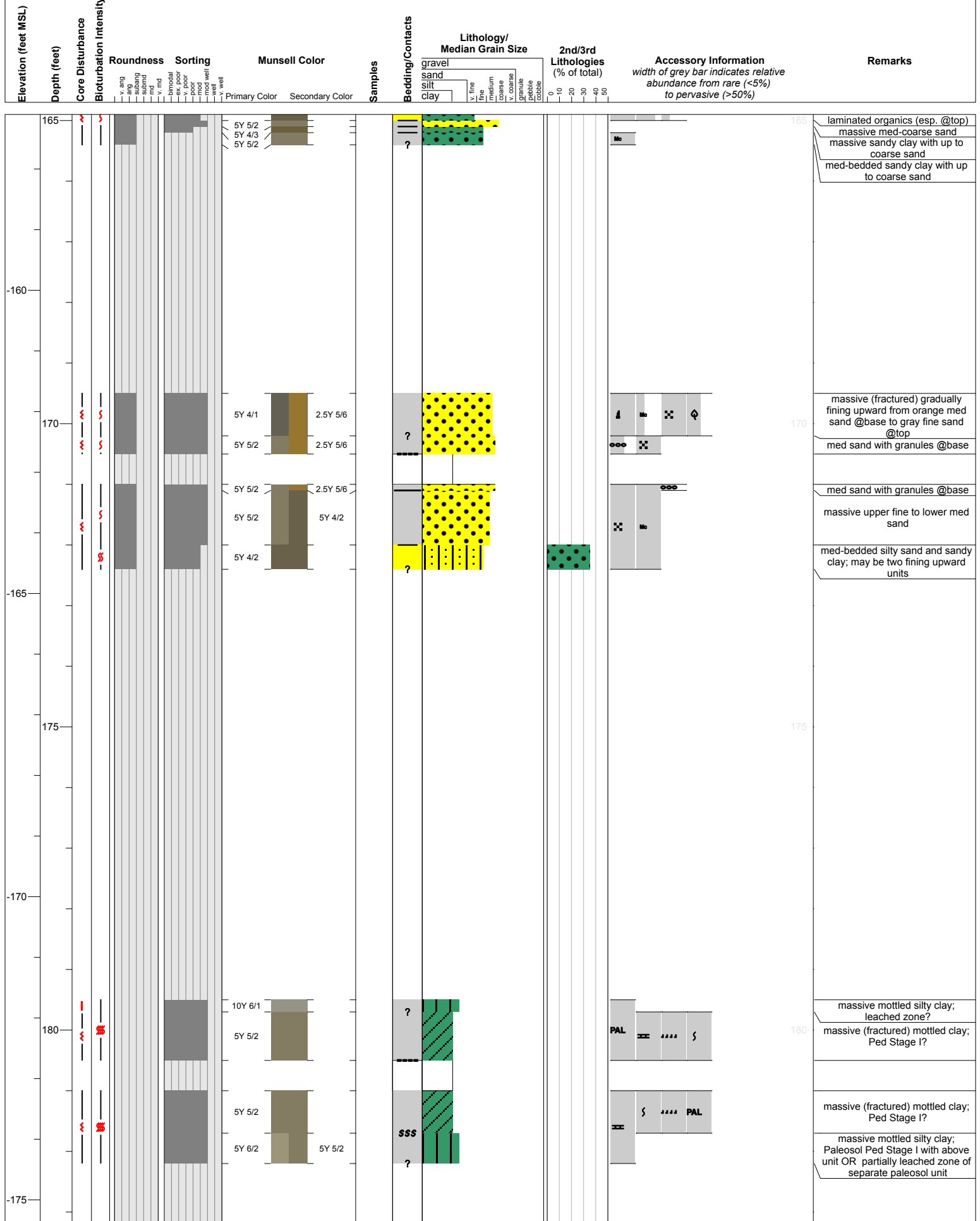
DCRA-DH-006



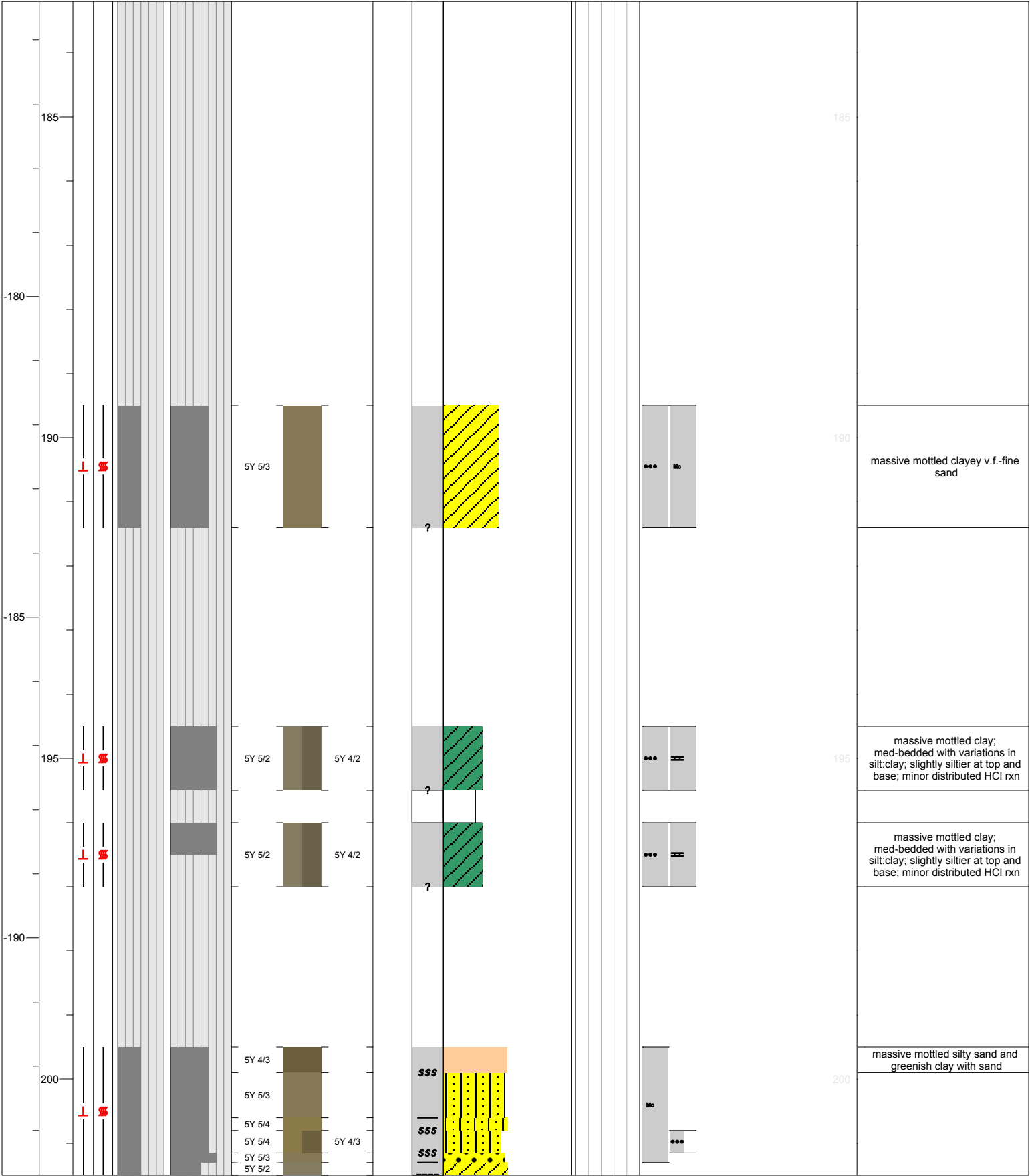
DCRA-DH-006



DCRA-DH-006



DCRA-DH-006											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod. well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule gravel cobble	0 10 20 30 40 50	



Elevation (feet MSL)

Depth (feet):

Core Disturbance
Bioturbation Intensity

Bioturbati

Ro

Sorting

Munsell Color
y Color Secondary

Samples

Bedding/Contacts

**Lithology/
Median Grain Size**

2nd/3rd
Lithologies
(% of total)

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks



DCRA-DH-007											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule gravel cobble	0 10 20 30 40 50	



Elevation (feet MSL)

Core Disturbance
Bioturbation Intensity

level					
and					
t					
ay					
	v. fine	fine	medium	coarse	v. coarse
					granule

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

massive mottled clay, silt, v.f.
sand; rolls into worm

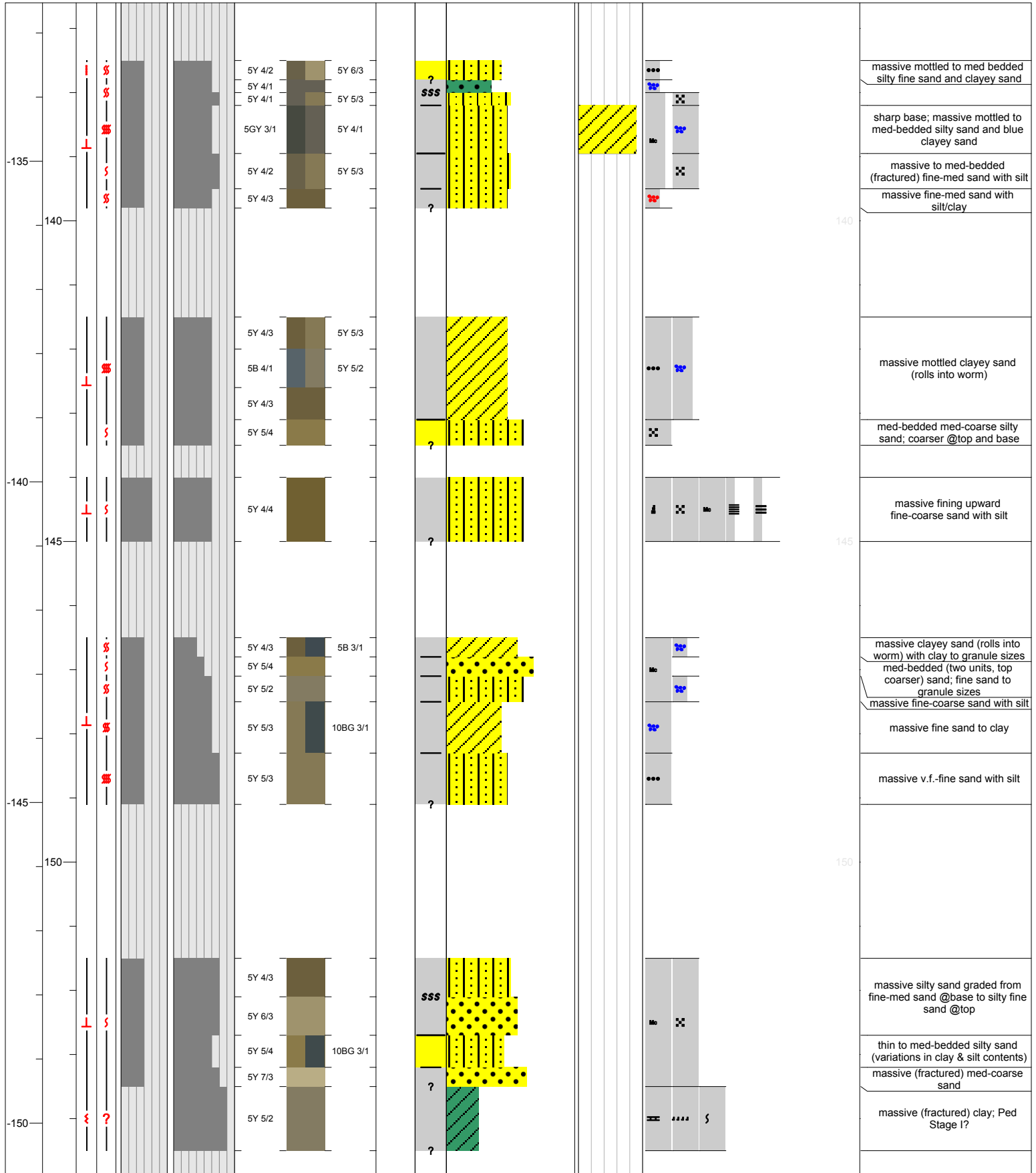
massive sandy clay
laminated v.f. sand
massive sandy clay
laminated to thin-bedded clayey
sand
massive mottled sandy clay and
sandier lithology
massive mottled, like above with
more sand
massive mottled clay
massive to thin-bedded sandy
clay and v.f. sand (@base)

massive (disturbed?) half blue silty fine sand and orange fine-med sand
laminated blue clayey sand; rolls into a worm; variation in sand size (fine-med) and clay content (clay lams)
massive clayey sand; partially blue
massive med-fine sand

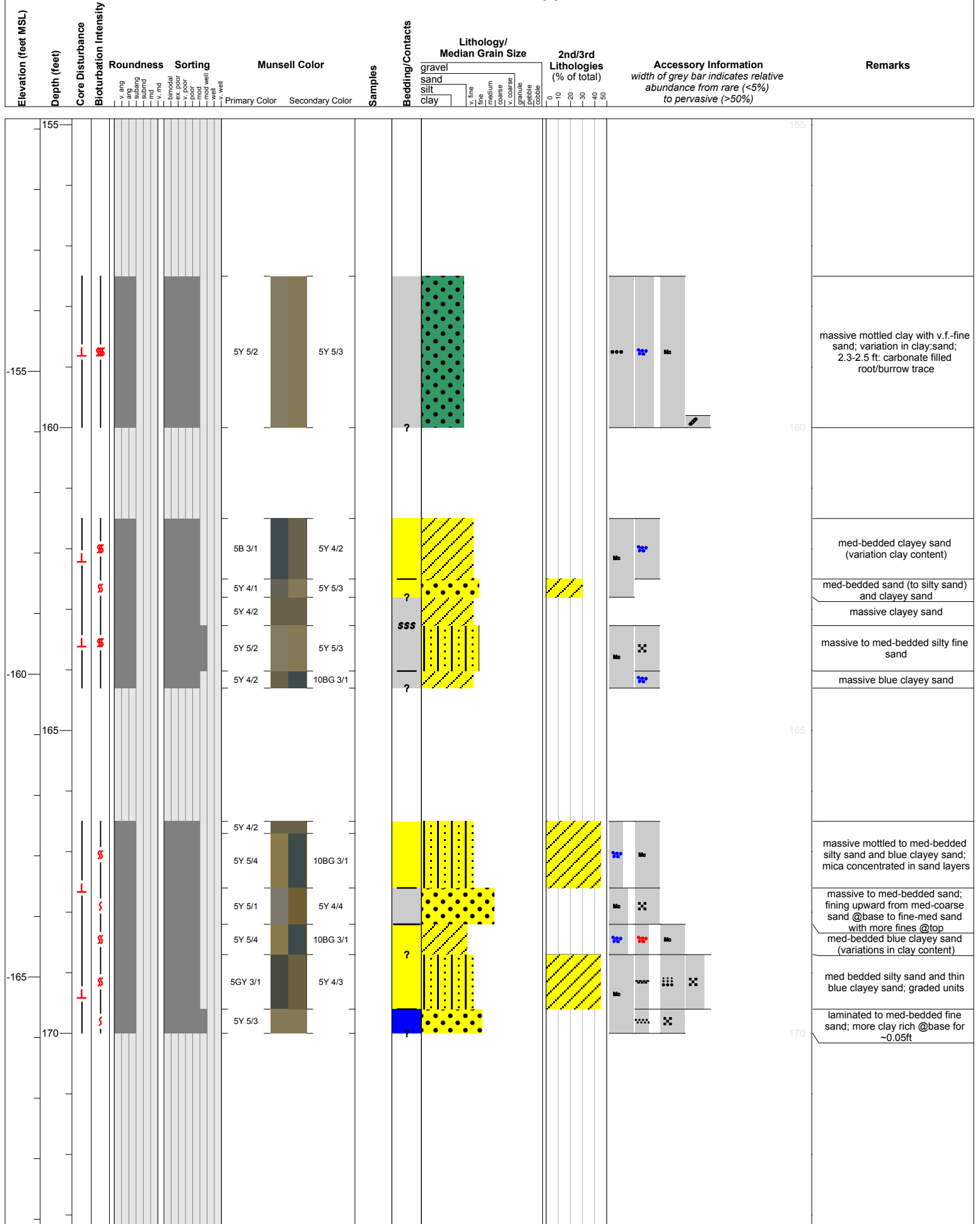
massive fine-med sand

massive blue clay with abundant
fine sand, subangular to
subrounded; rolls into worm

DCRA-DH-007											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule gravel cobble	0 10 20 30 40 50	



DCRA-DH-007



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbation Intensity

Rou

v. ang

Sorting

Munsell Color
y Color Secondary

Samples

Bedding/Contacts

Lithology/ Median Grain Size	
level	
nd	
y	v. fine fine medium coarse v. coarse granule

**2nd/3rd
Lithologies
(% of total)**

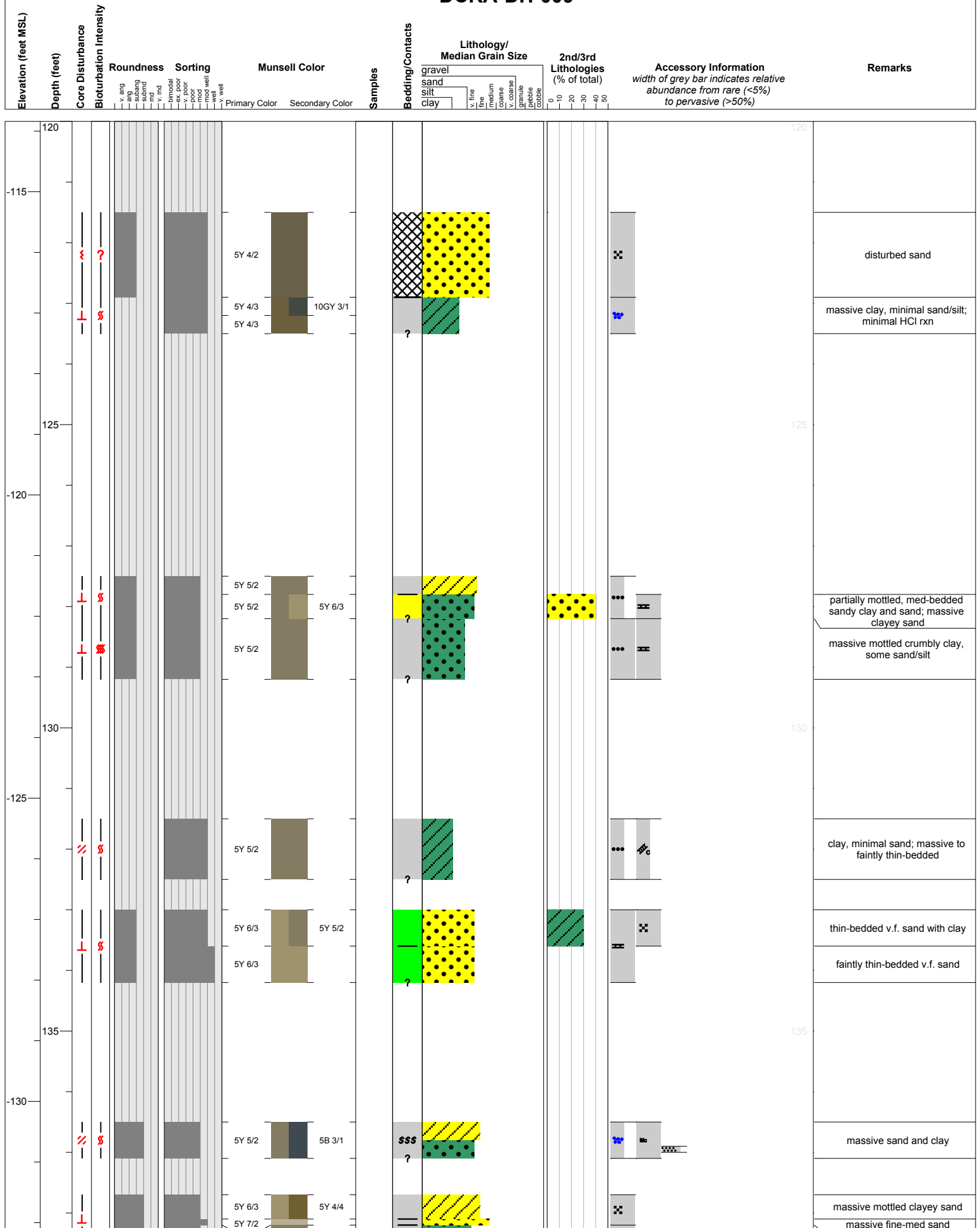
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

DCRA-DH-007												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color Primary Color Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang.					gravel			
				ang.					sand			
				subang.					silt			
				fine sand					clay			
				md					v. fine			
				v. md					fine			
				bimodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod. poor					granule			
				nod					coarse			
				well					cobble			
				v. well								



DCRA-DH-009



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

Sorting

Munsell Color

Primary Color Secondary Color

Samples

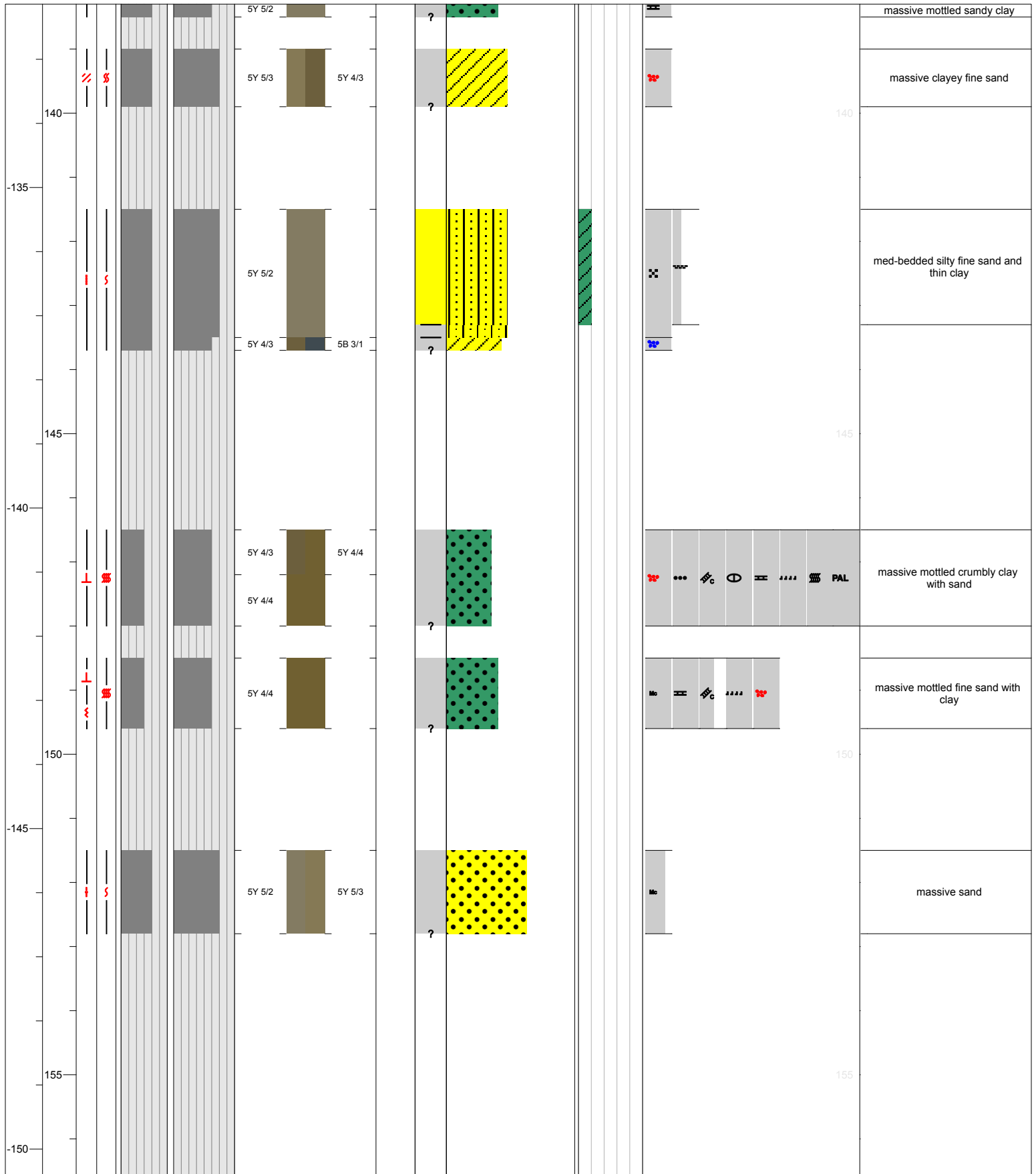
Bedding/Contacts

Lithology/
Median Grain Size

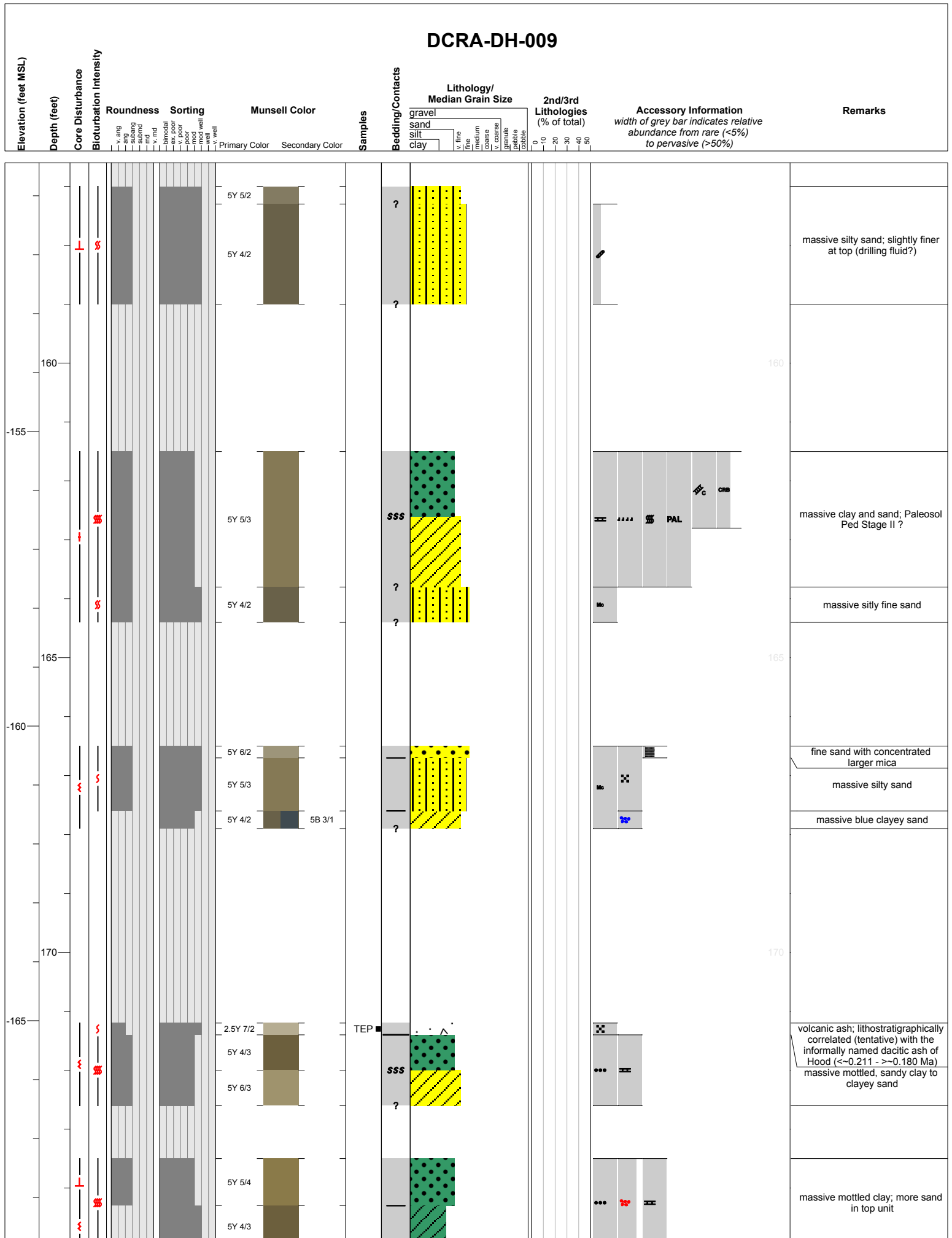
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

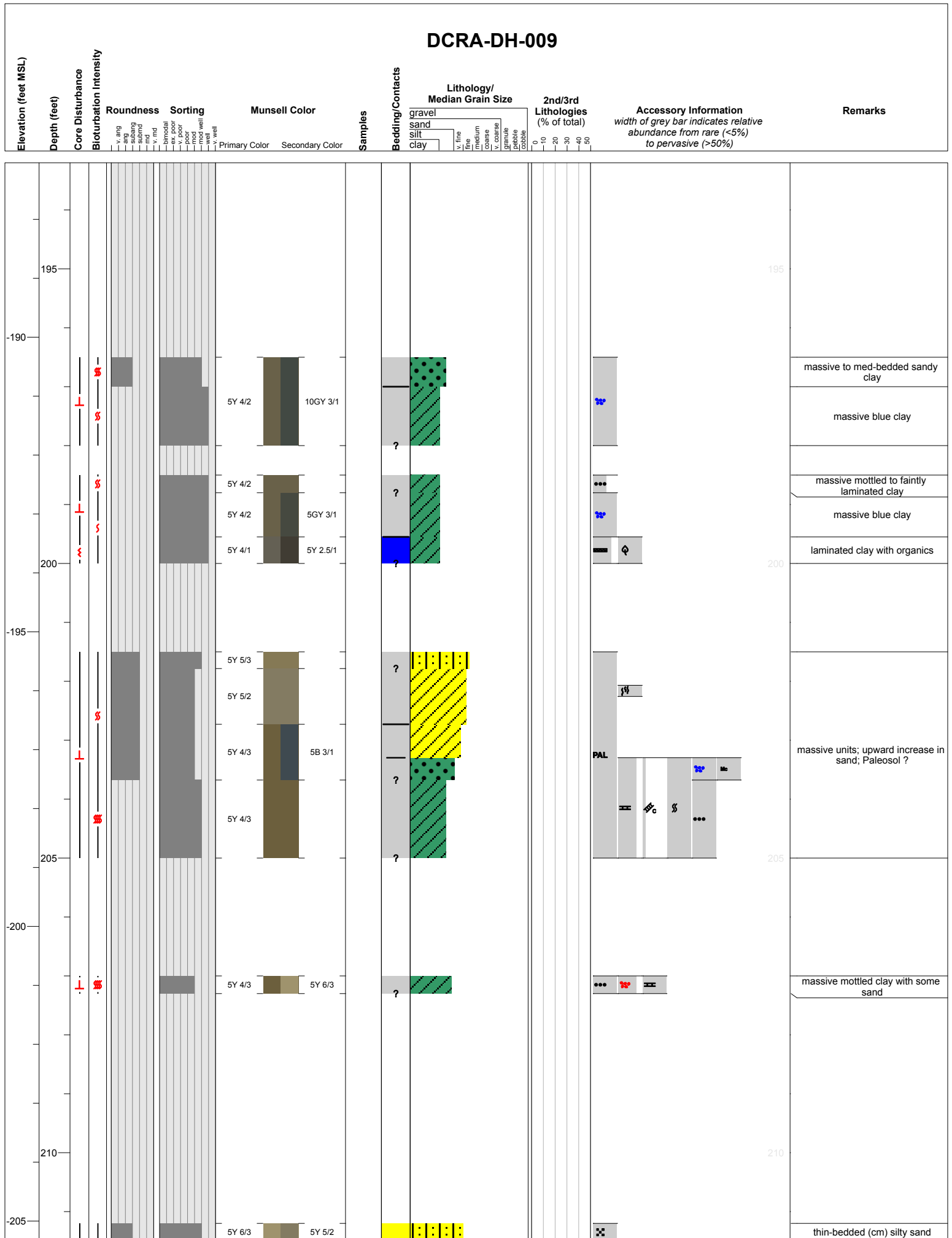
Remarks



DCRA-DH-009



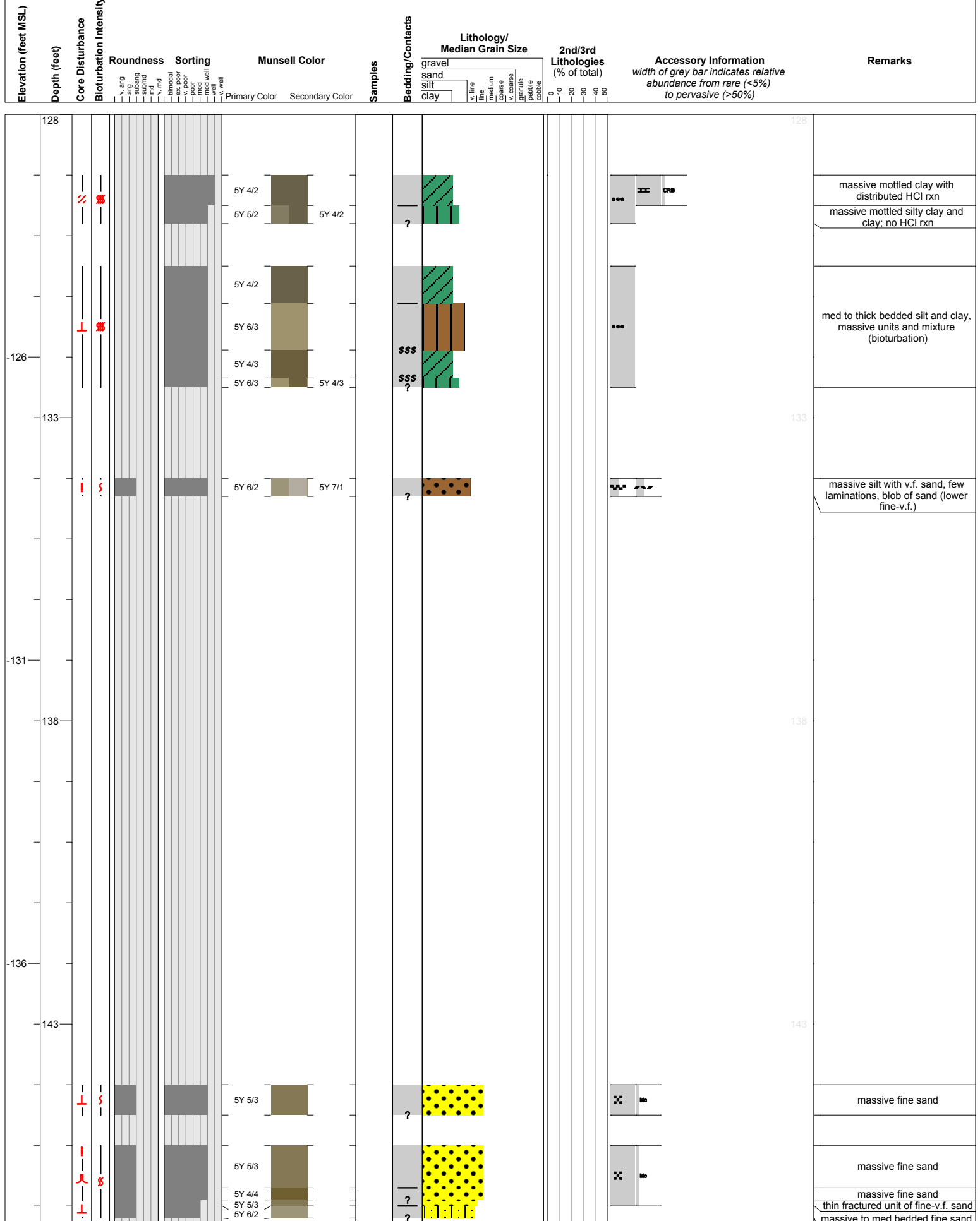
DCRA-DH-009



DCRA-DH-009



DCRA-DH-010

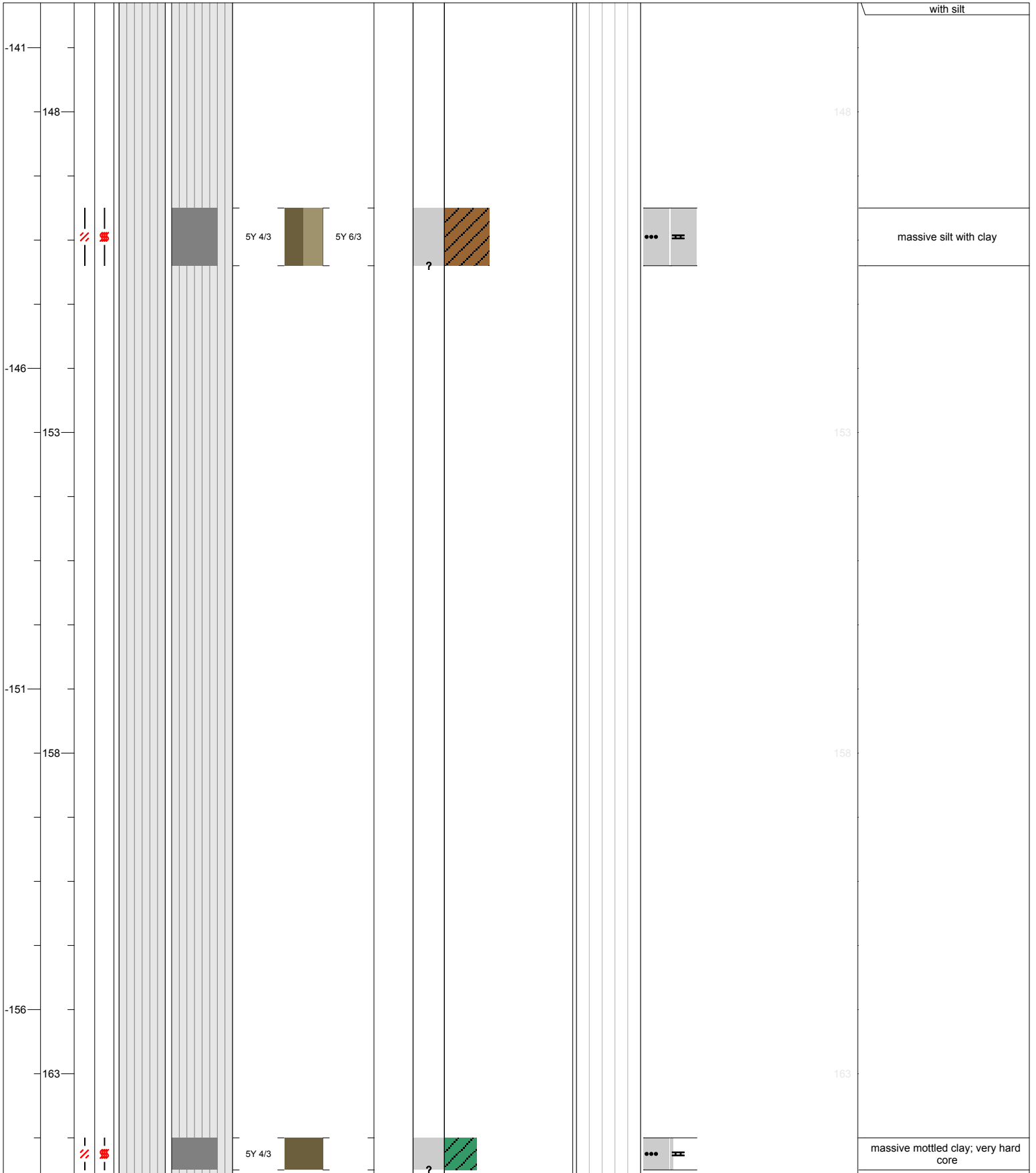


Elevation (feet MSL)

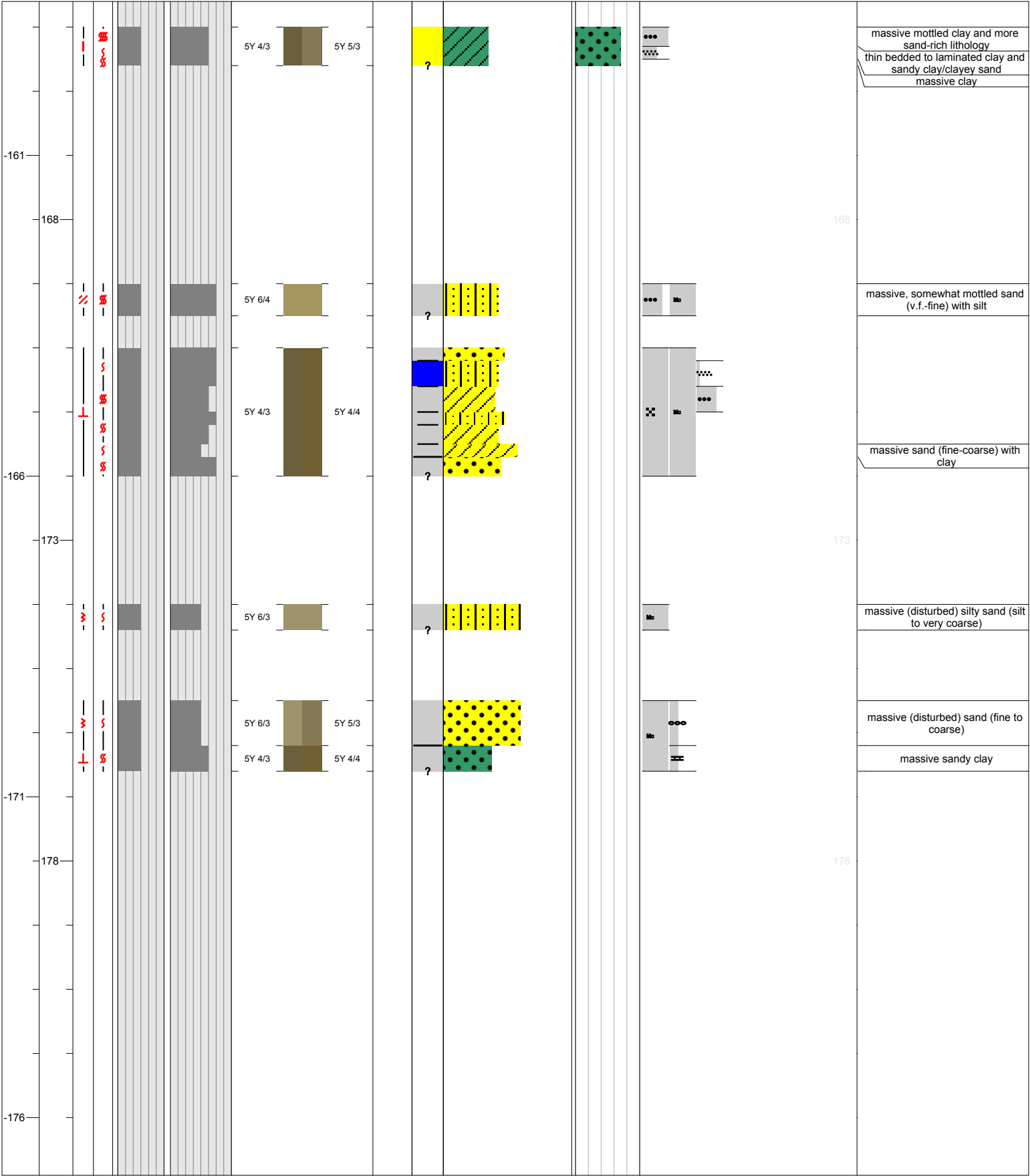
Core Disturbance
Bioturbation Intensity

1000

Remarks

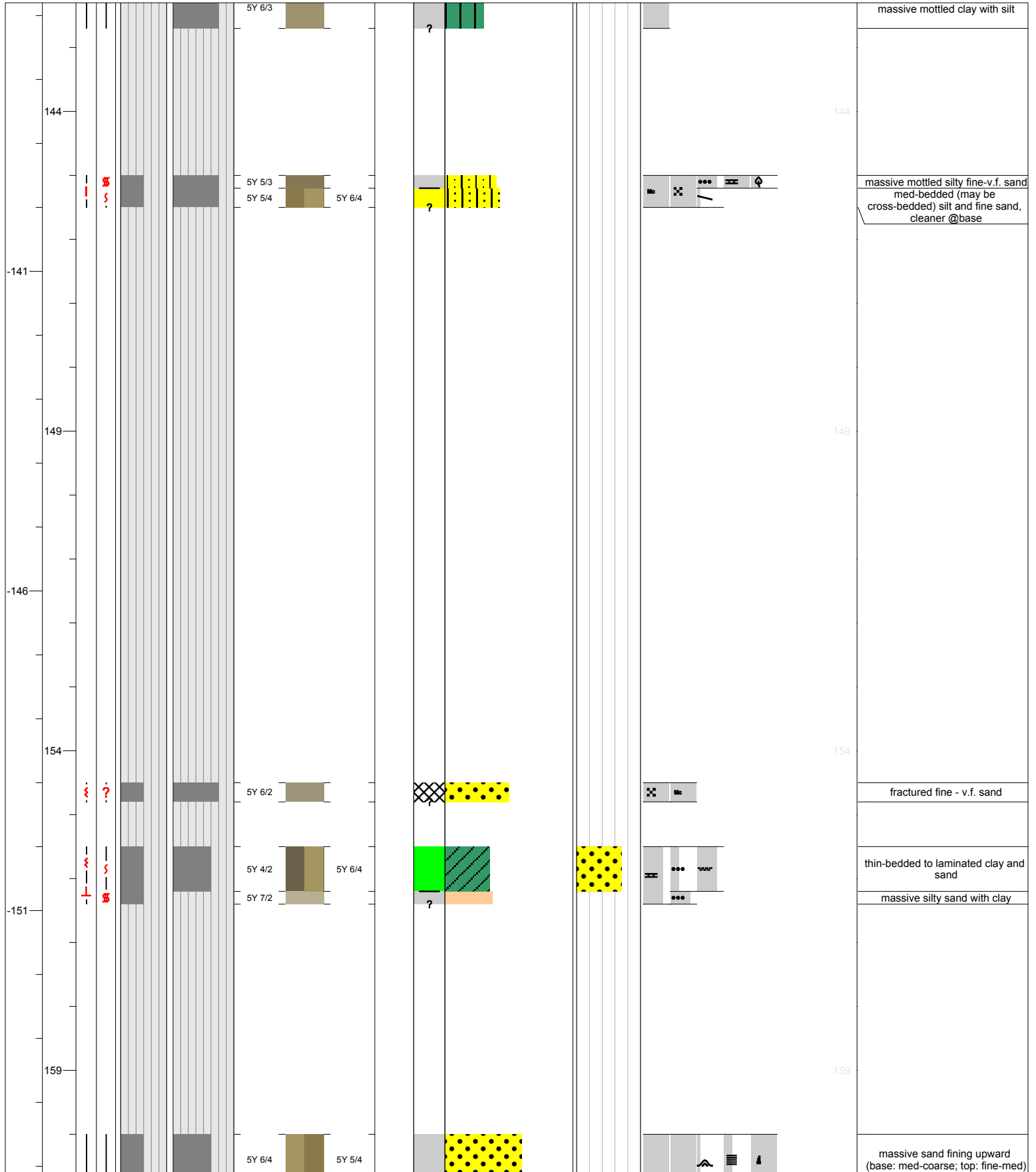


DCRA-DH-010											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks	
				v. ang ang subang subang ind v. ind bimodal ex. poor poor poor mod. well well v. well		Primary Color Secondary Color			gravel sand silt clay v. fine fine medium coarse v. coarse granule granule pebble cobble	0 10 20 30 40 50	

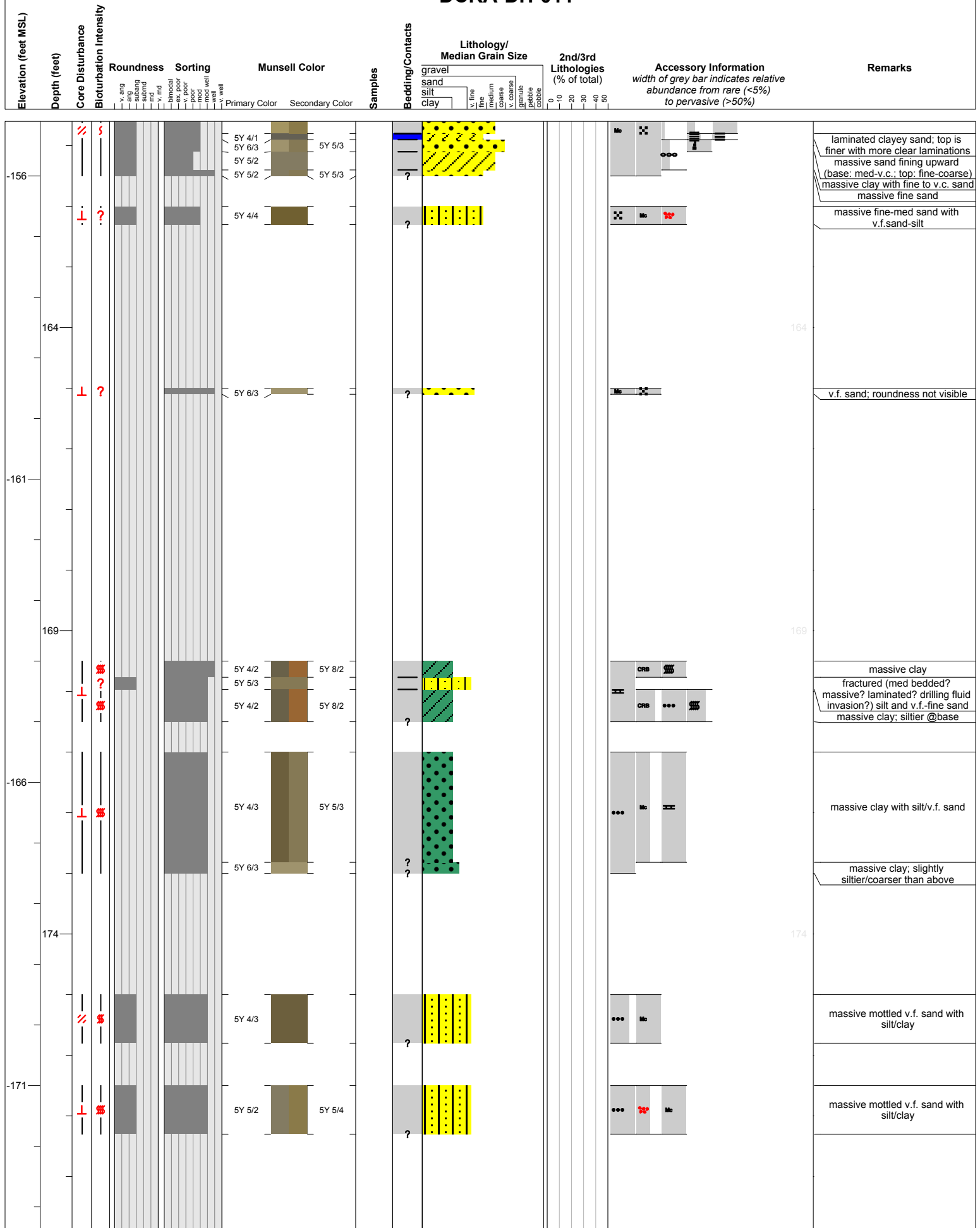


DCRA-DH-011

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang submd md v. md bimodal v. poor poor mod well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
124						5Y 6/3				?				massive to med-bedded fine-v.f. sand
129						5Y 6/2		5Y 6/3		sss ?				gradual transition from clayey with sand @base to sandier @top
134						5Y 6/3				?				massive mottled v.f. sand with clay
						5Y 4/2		5Y 6/3						med-bedded massive mottled clay and v.f. sand
						5Y 4/2		5Y 6/3		?				med-bedded massive mottled clay and v.f. sand
						5Y 5/2		5Y 7/3		?				massive clay mottled with silt (lighter-color); base unit slightly more clay than top unit
139						5Y 4/3		5Y 5/3		?				massive mottled clay; more silty @top; Paleosol with leached cores above?
						5Y 4/3				sss				massive mottled clay



DCRA-DH-011



Elevation (feet MSL)

Core Disturbance

Re

Primary Color	Secondary Color
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Remarks

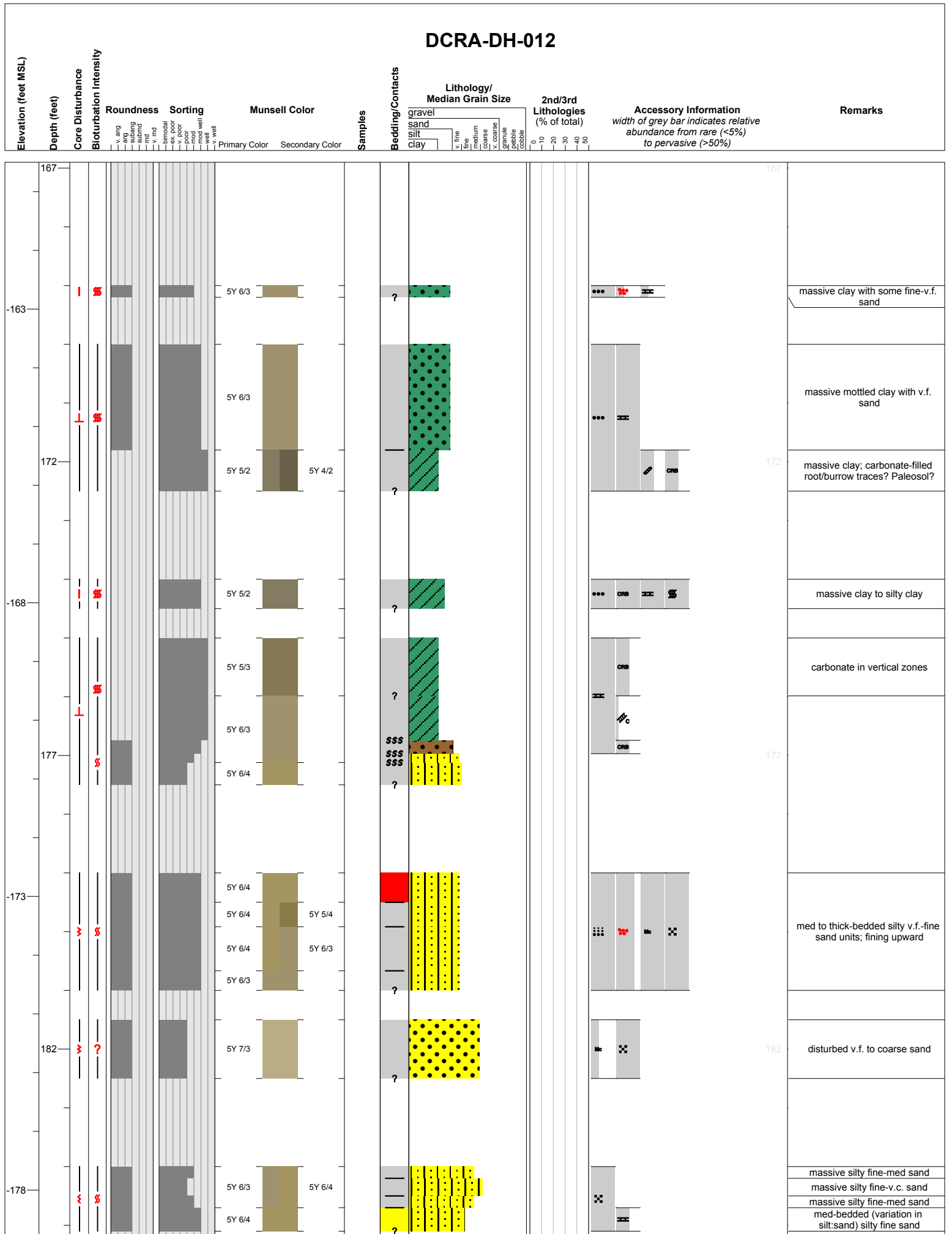
DCRA-DH-012

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang subind ind v. md bimodal poor v. poor poor mod well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse fine medium coarse v. coarse fine medium coarse v. coarse	0 10 20 30 40 50		
	132					5Y 6/3				?				massive clay to silty clay
						5Y 5/3				SSS				leached zone (?) paleosol; 0-0.1 ft: massive (fat) clay; 0.1-0.5 ft: massive clay with fine sand; 0.5-1.3 ft: massive clay with silt / lower v.f. sand
						5Y 6/3				SSS				massive clay with silt + v.f. mica (Ped Stage I?)
						5Y 5/3				?				
	137													
						5Y 5/2		5Y 5/3						massive mottled clay with minimal silt/sand (Ped Stage I?)
						5Y 5/2		5Y 5/3						massive mottled clay with minimal silt/sand (Ped Stage I?)
						5Y 4/1				?				massive clay with organics
	142					5Y 6/4				SSS ?				massive clayey v.f. sand massive v.f.-fine sand
						5Y 7/3		5Y 6/3						laminated silty v.f. sand massive v.f. sand
						5Y 7/2				?				
						5Y 6/2								most of the core removed by DWR?
						5Y 7/2								laminated v.f. sand massive mottled v.f. sand
	147					5Y 6/3		2.5Y 6/6						med-bedded (disturbed) v.f. sand and fine sand

DCRA-DH-012

Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang ang subang submd md v. md bimodal v. poor v. poor mod mod well v. well						gravel sand silt clay	v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
-143														
	152													
-148		1	§			5Y 7/2				?			...	massive silt
						5Y 6/3							§	massive silt
		1	§			5Y 6/4				sss			Mo	massive silty fine-v.f. sand
	157					5Y 6/3				?				massive silt
-153		§	?			5Y 6/2		5Y 6/3		?			Mo	fractured, possibly laminated silty v.f. sand
		1	?			5Y 6/3				?			Mo	silty fine sand
	162													
-158		1	?			5Y 6/3				?				massive (?) silt with sparse fine sand

DCRA-DH-012



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Ro

Sorting

Munsell Color

Primary Color	Secondary Color
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Samples

Bedding/Contacts

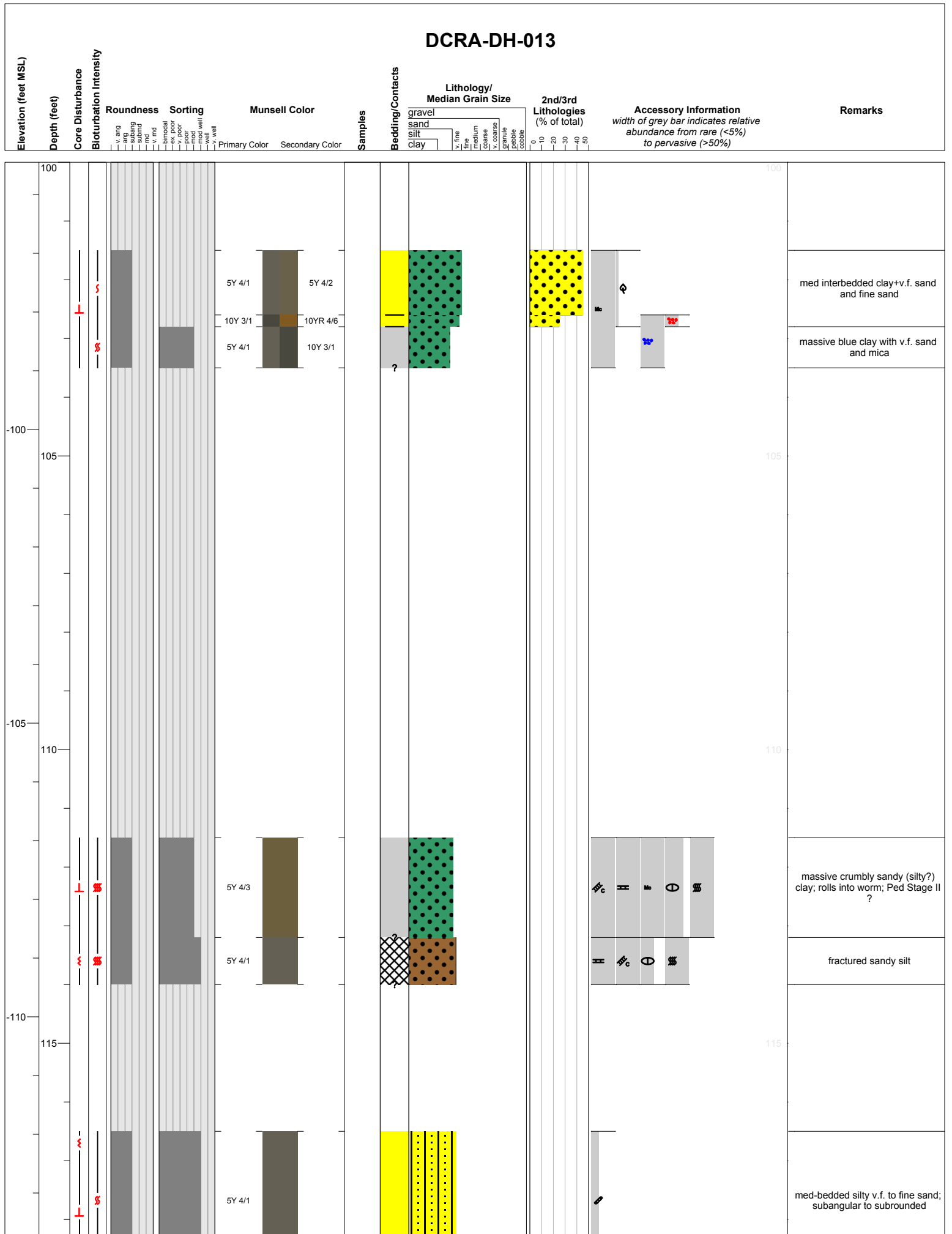
Lithology/
Median Grain Size

**2nd/3rd
Lithologies
(% of total)**

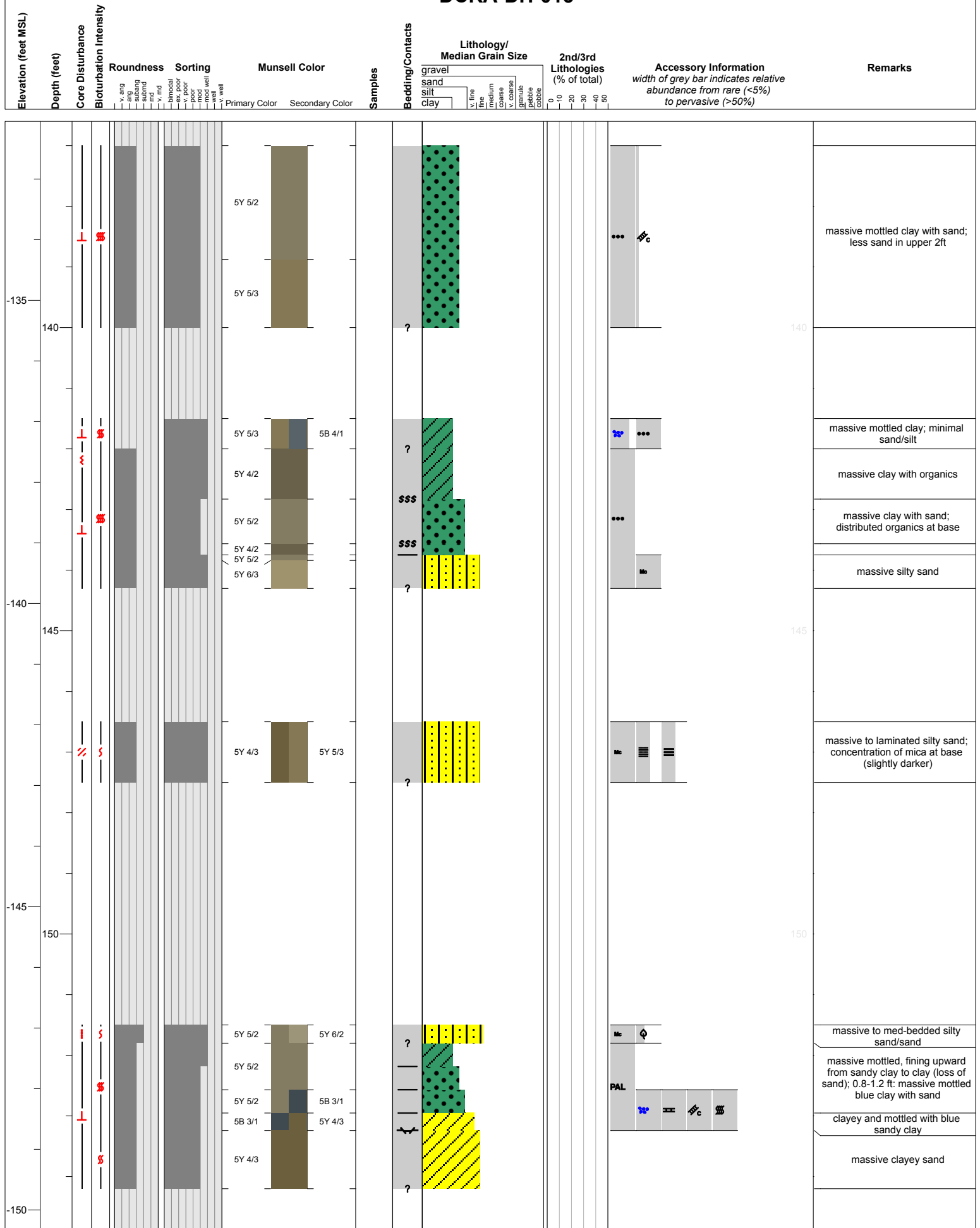
Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

Remarks

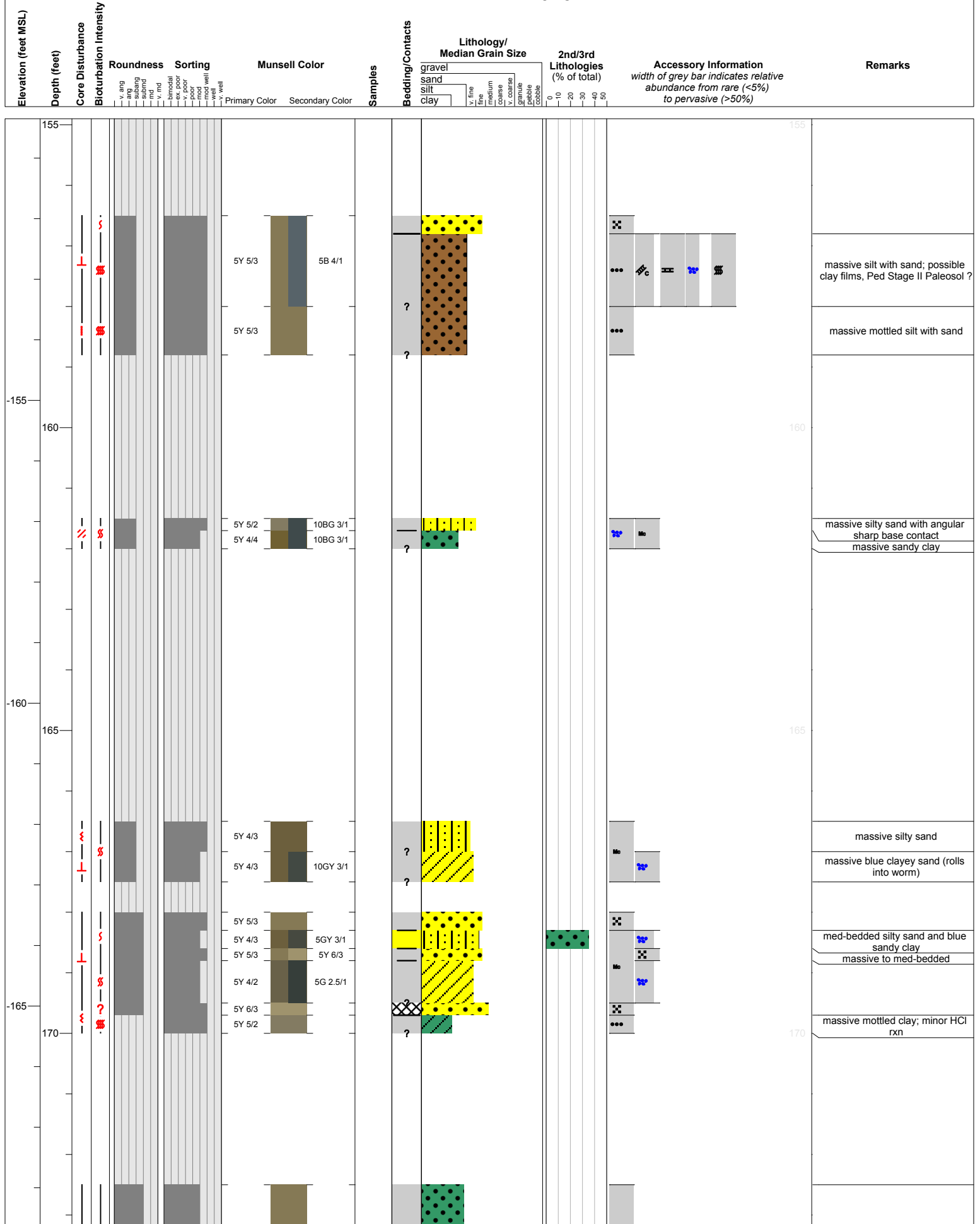
DCRA-DH-013



DCRA-DH-013



DCRA-DH-013



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Ro

Sorting

Munsell Color

Samples

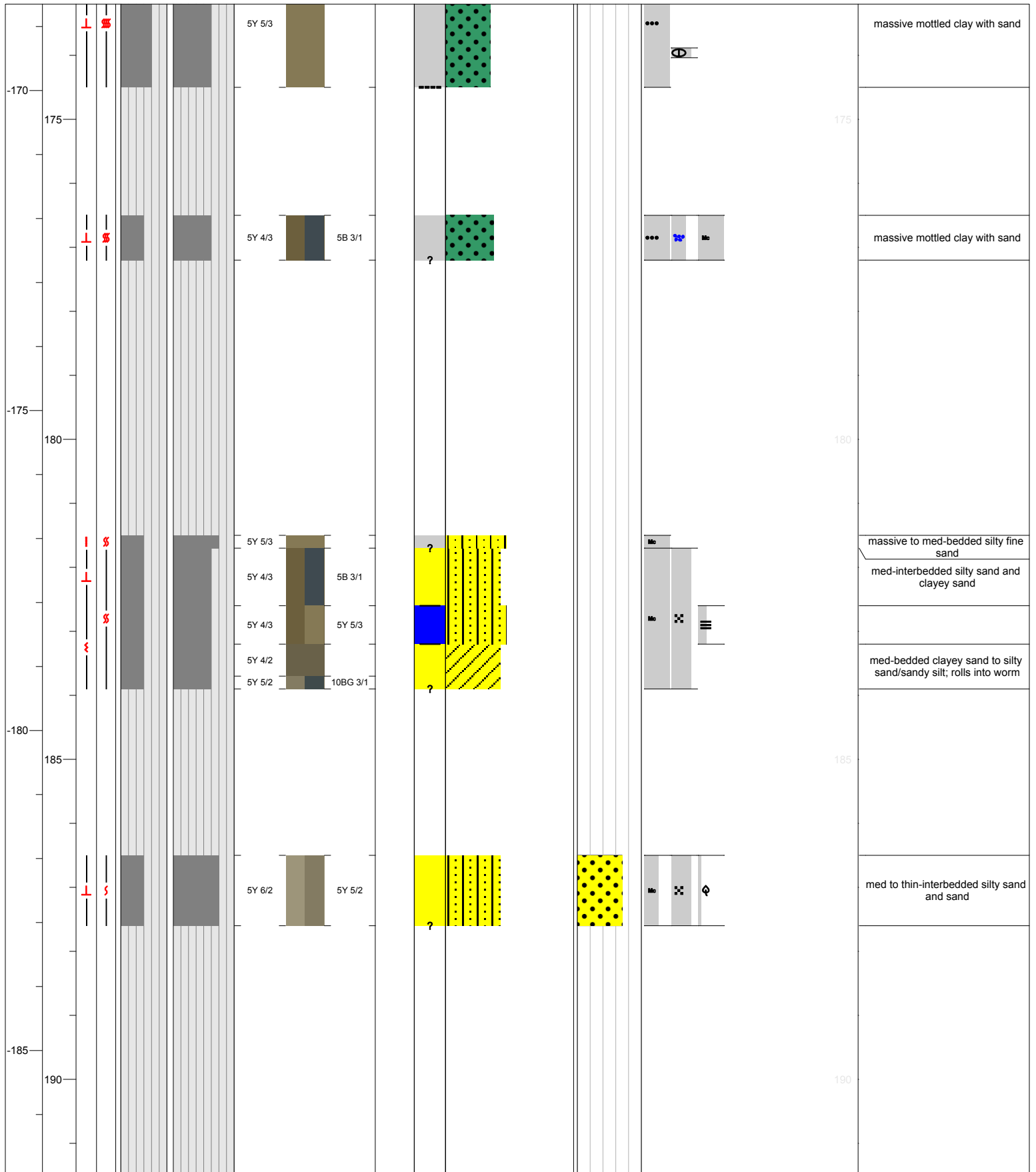
Bedding/Contacts

Lithology/ Median Grain Size	
level	
nd	
y	
	v. fine fine medium coarse v. coarse granule

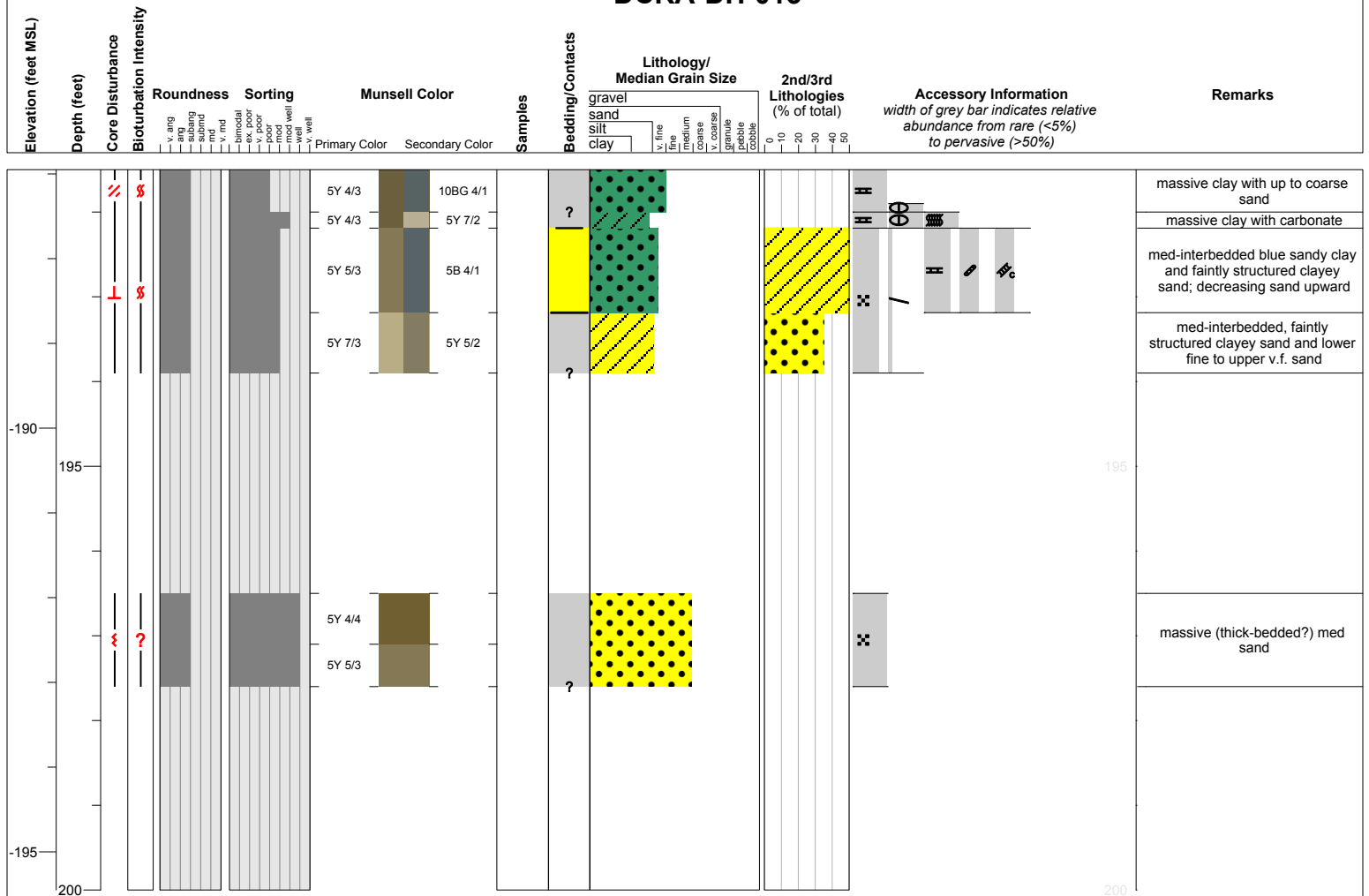
**2nd/3rd
Lithologies
(% of total)**

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

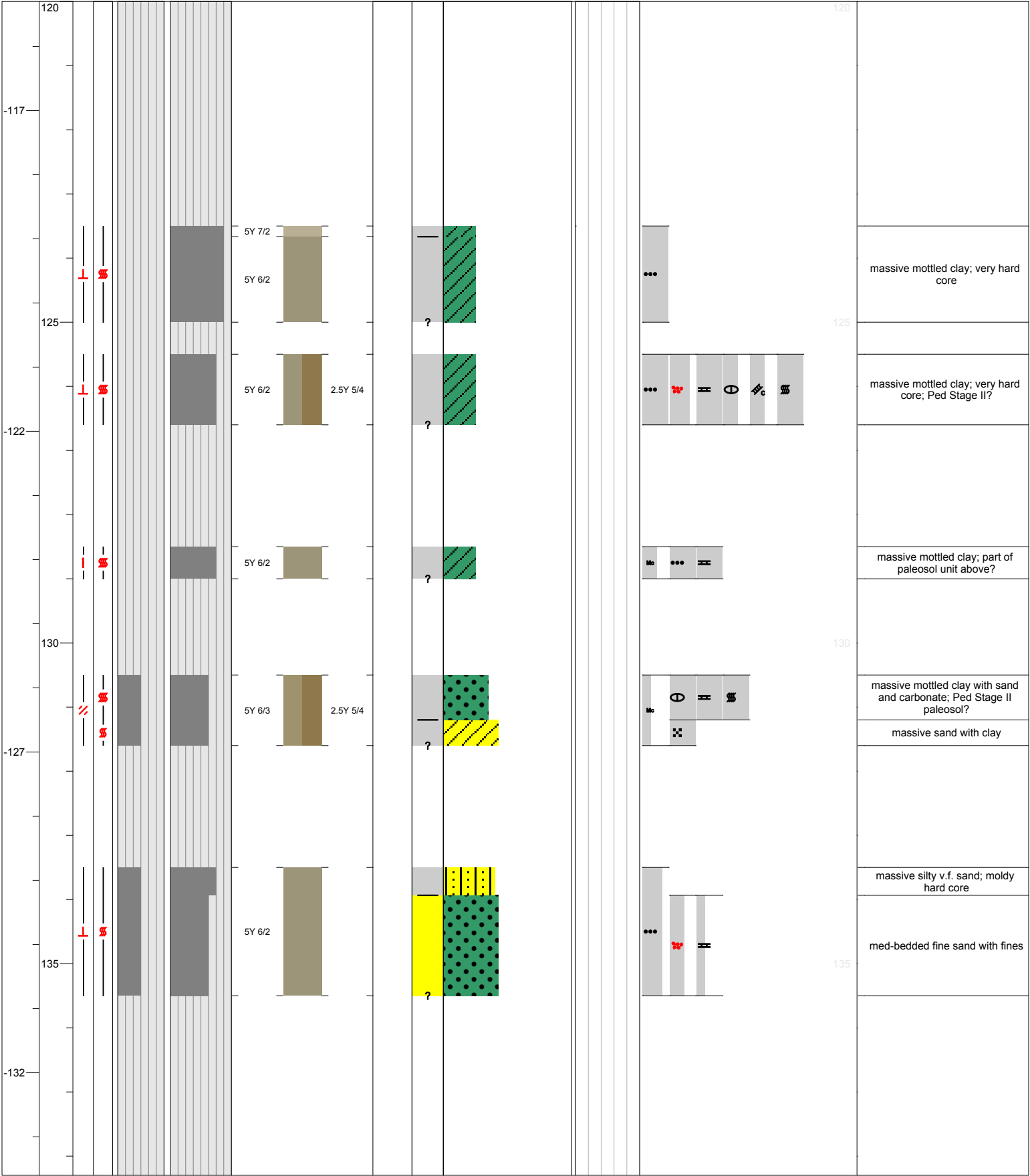
Remarks



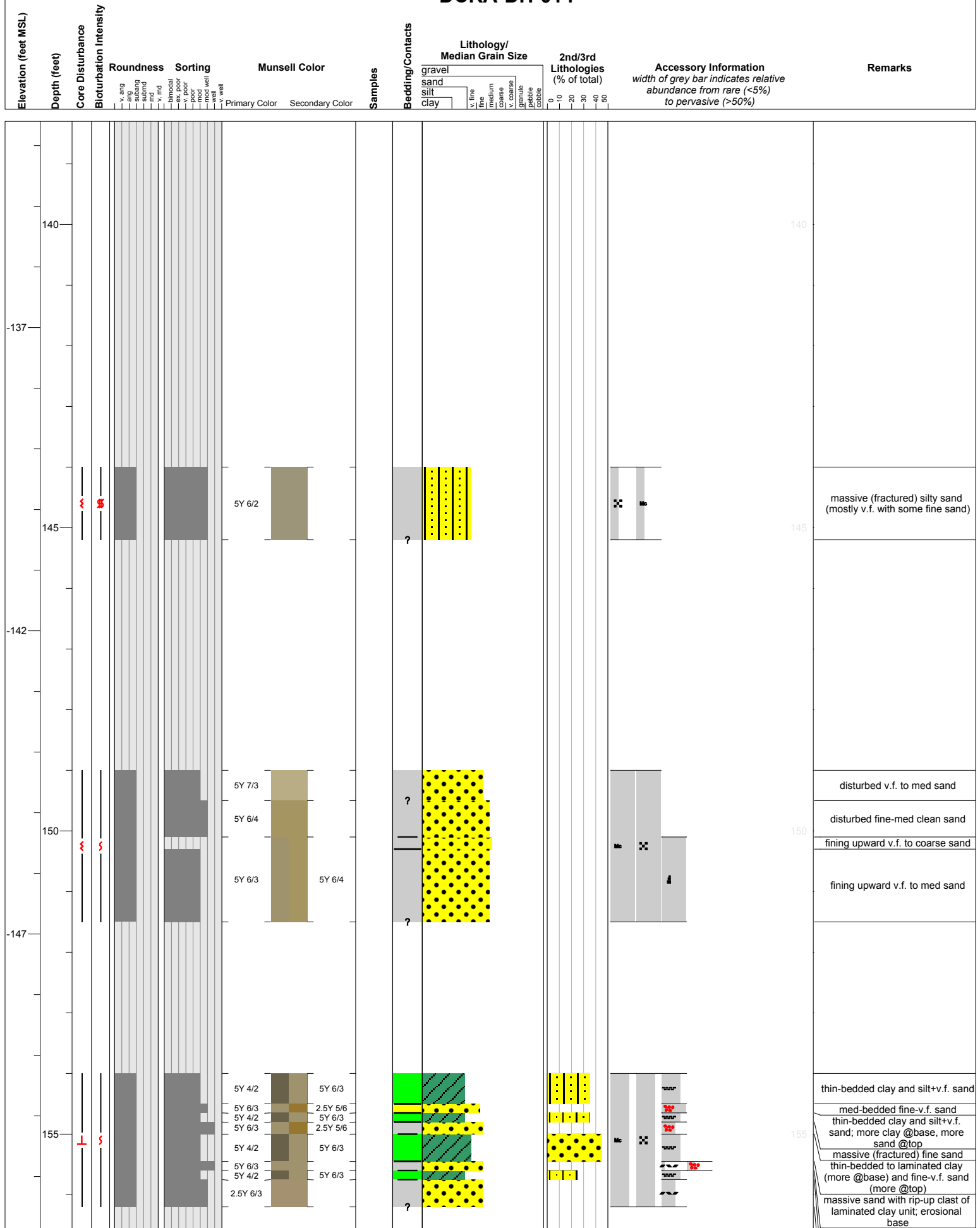
DCRA-DH-013



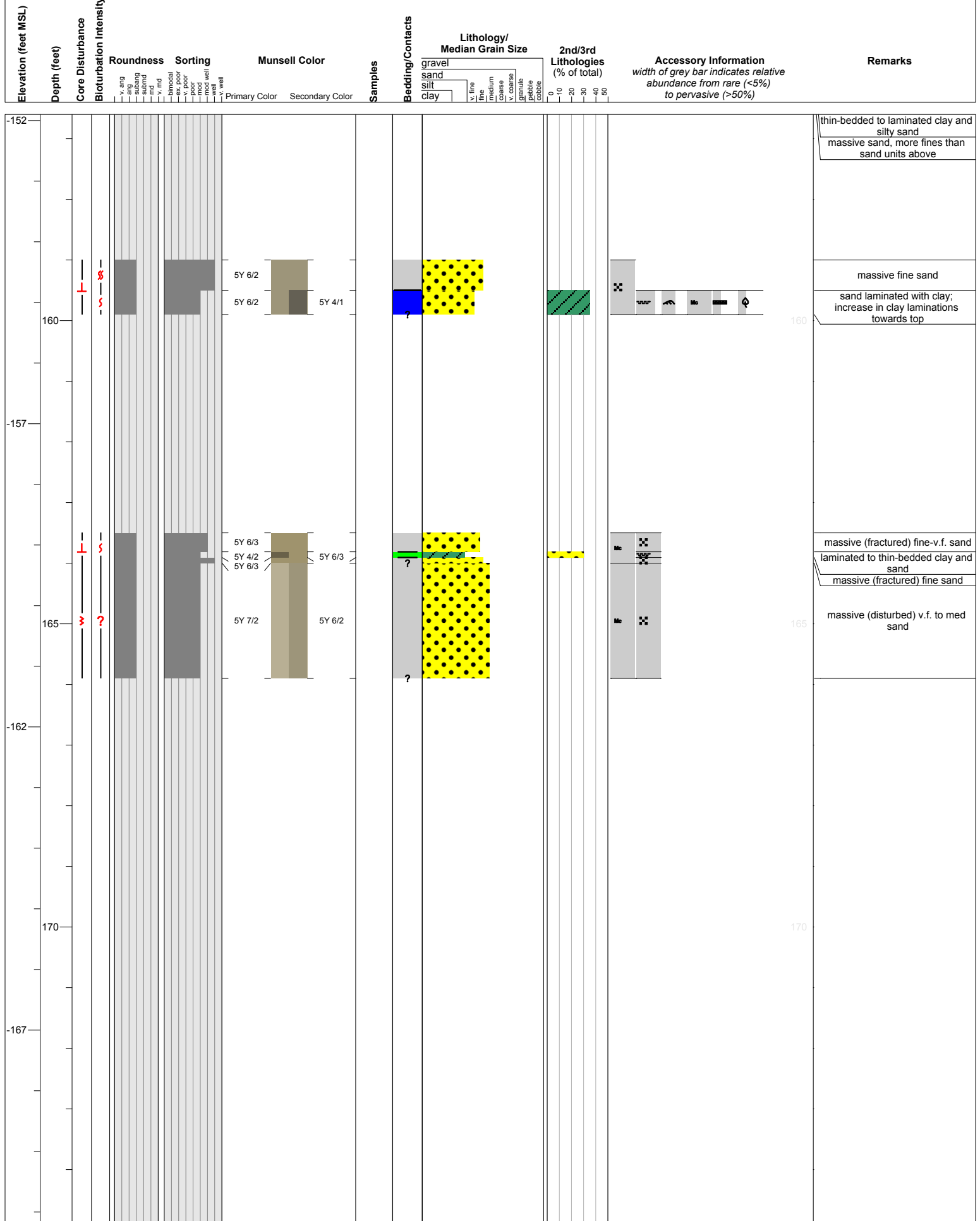
DCRA-DH-014											
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size Lithologies (% of total)	Accessories Information width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)	Remarks
				v. ang.	v. well	Primary Color			gravel		
				ang.	ex. poor	Secondary Color			sand		
				subang.	mod. poor				silt		
				ind.	well				clay		
				v. ind.	v. well				v. fine		
				bimodal	poor				fine		
				ex. poor	mod. well				medium		
				poor	very well				coarse		
				mod. poor	well				v. coarse		
				well					granule		
									pebble		
									cobble		
									0		
									10		
									20		
									30		
									40		
									50		



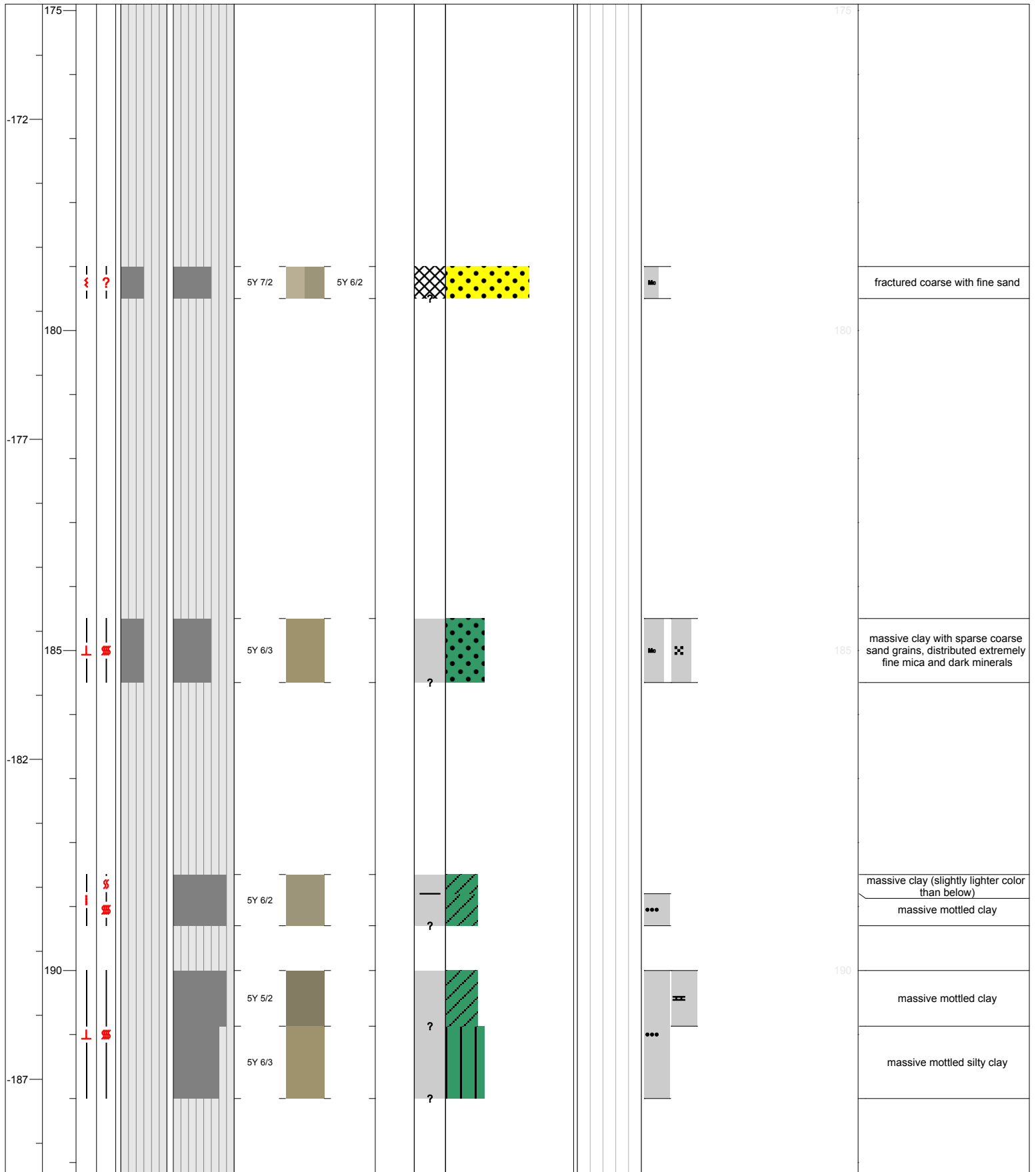
DCRA-DH-014



DCRA-DH-014



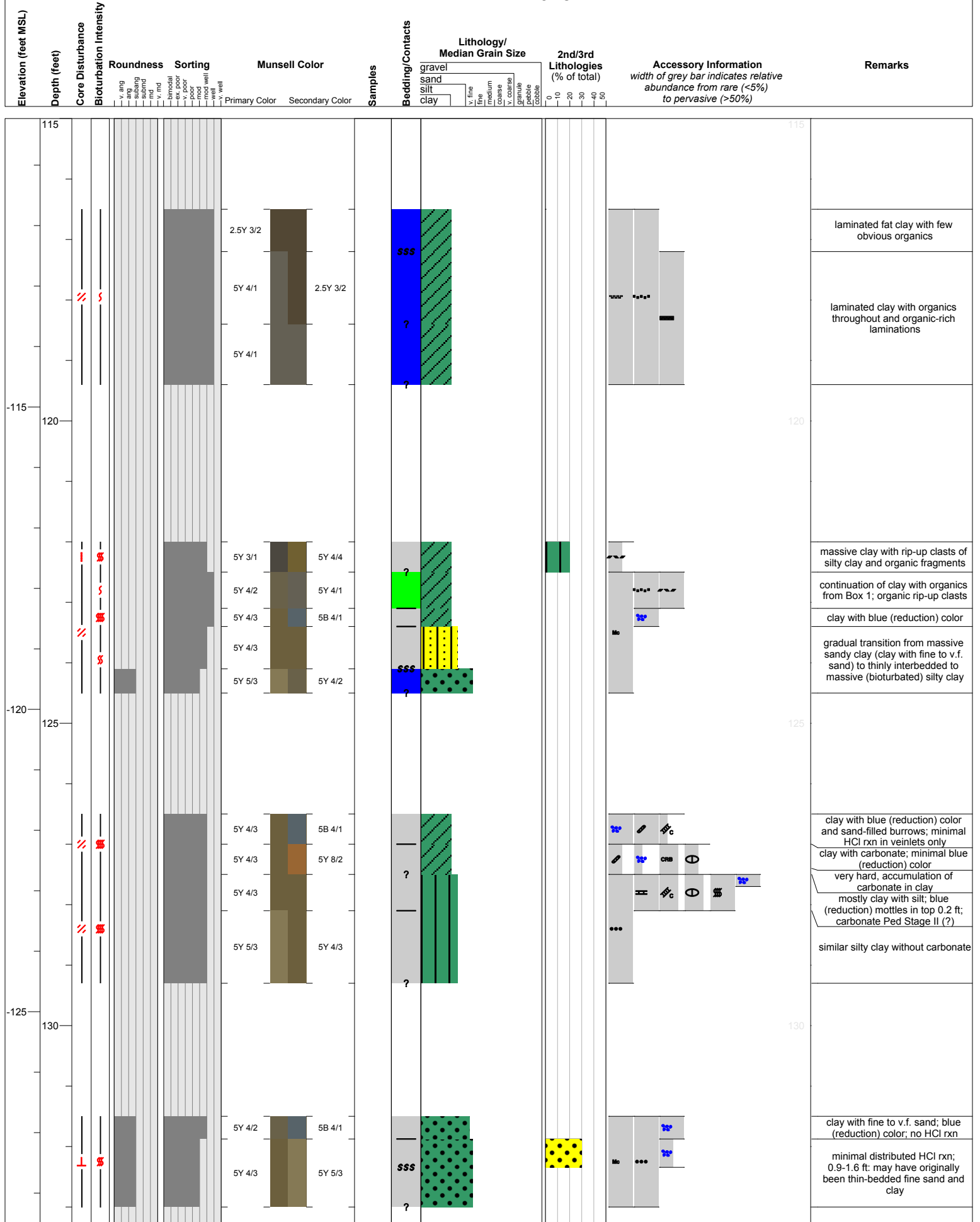
DCRA-DH-014												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang	ex. poor	Primary Color			gravel			
				ang	poor	Secondary Color			sand			
				subang	poor				silt			
				fine	mod				clay			
				md	well				v. fine			
				v. md	v. well				fine			
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					fine			
				well					medium			
				v. well					coarse			
									fine			
									medium			
									coarse			
									v. coarse			
									fine			
									medium			
									coarse			
									v. coarse			
									fine			
									medium			
									coarse			
									v. coarse			
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									medium			
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									v. coarse			
									fine			
									medium			
									coarse			
									v. coarse			
									fine			
									medium			
									coarse			



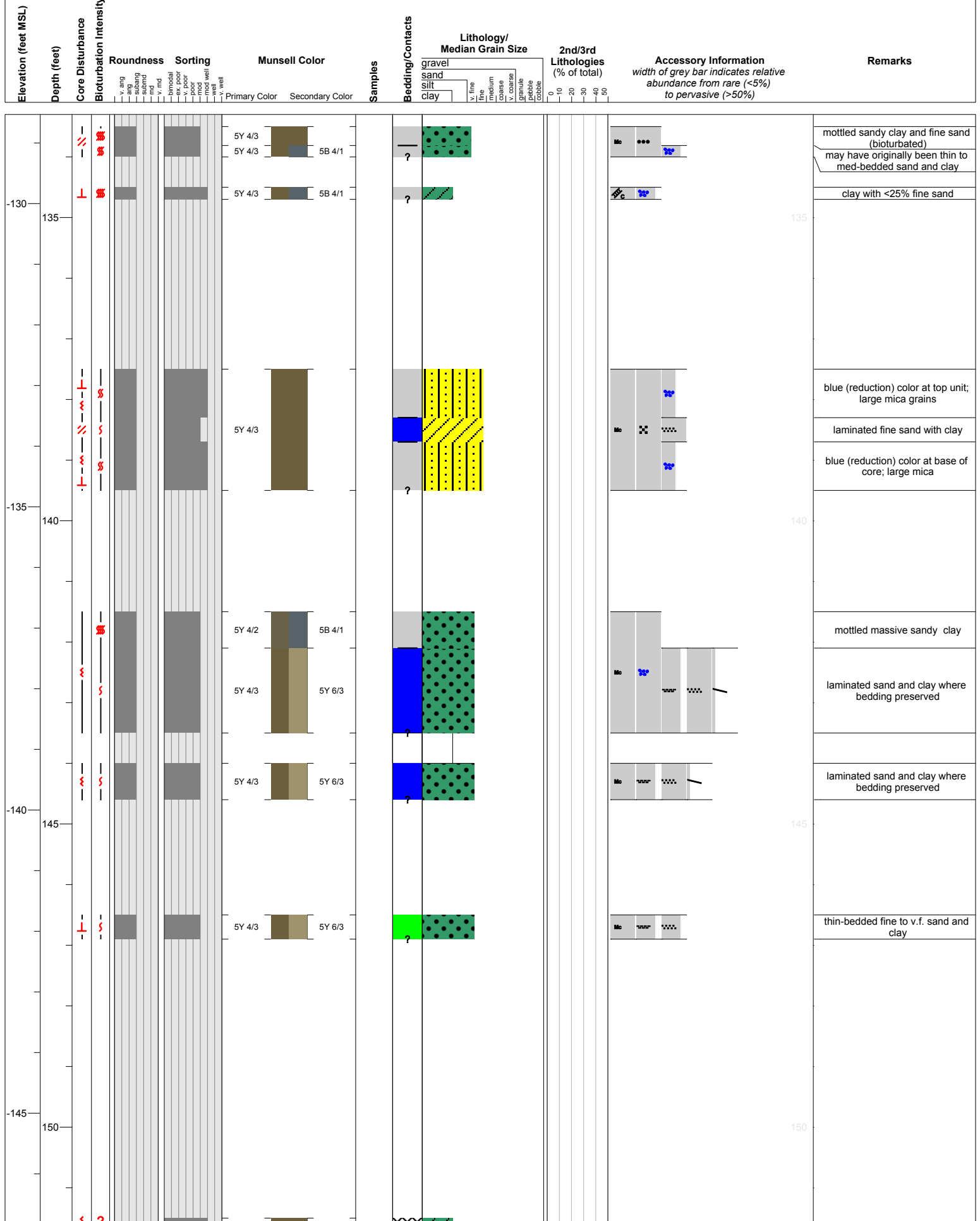
DCRA-DH-014

DCRA-DH-014																
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Munsell Color		Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks		
				v. ang ang subang subind ind v. md bimodal ex. poor poor v. poor mod well v. well								gravel sand silt clay	v. fine fine medium coarse v. coarse granule pebble cobble	0 10 20 30 40 50		
	195					5Y 6/3					sss ?			massive clay		
														massive to med bedded clay + silt + fine sand; esp. sandy @base		

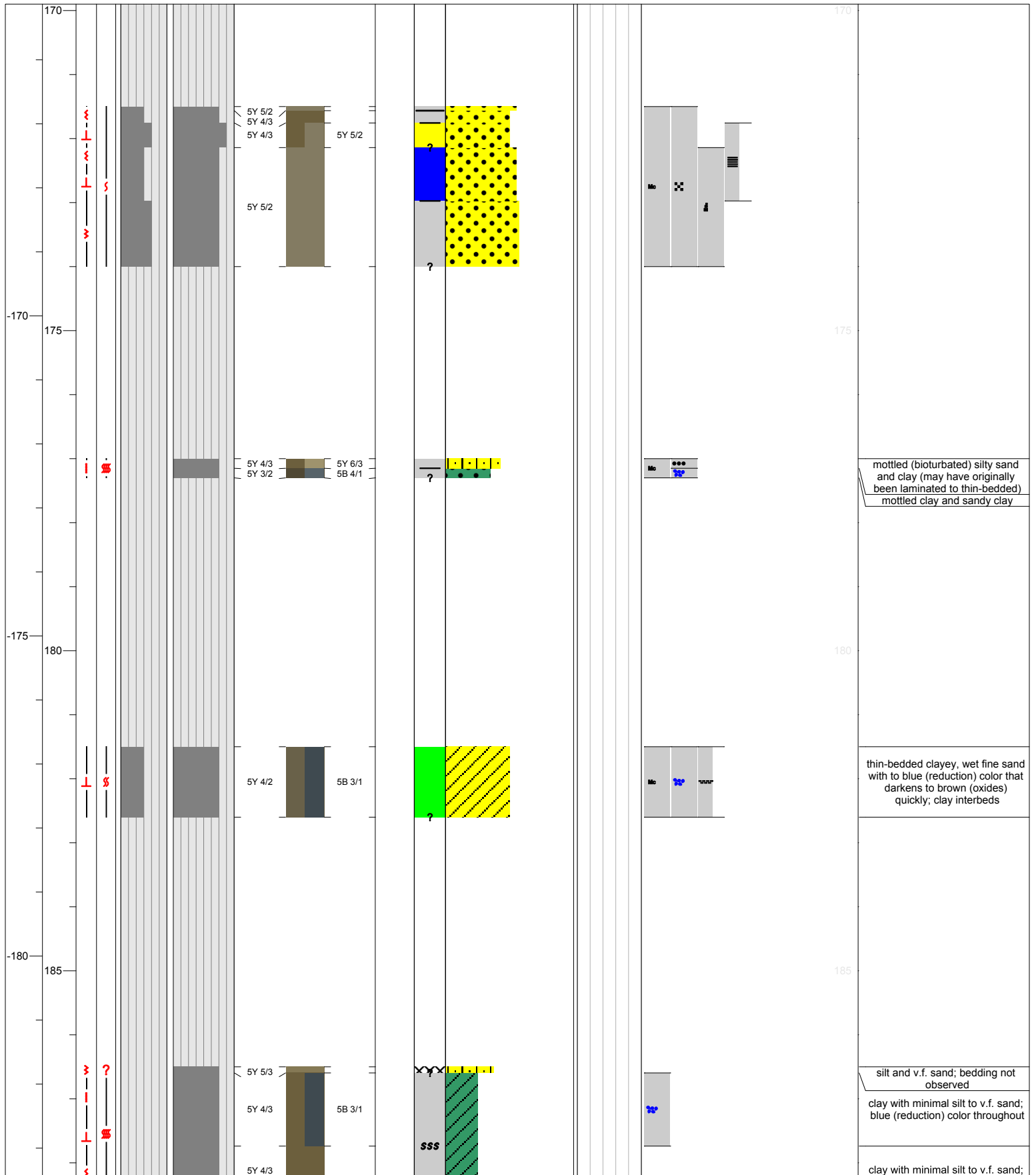
DCRA-DH-015



DCRA-DH-015



DCRA-DH-015												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang	ex. poor	Primary Color			gravel	0		
				ang	poor	Secondary Color			sand	10		
				subang	mod				silt	20		
				fine	poor				clay	30		
				md	well				v. fine	40		
				v. md	v. well				fine	50		
				binodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod					gravel			
				well					fine			
				v. well					medium			
									coarse			
									v. coarse			
									gravel			
									fine			
									medium			
									coarse			
									v. coarse			
									gravel			
									fine			
									medium			
									coarse			
									v. coarse			
									gravel			
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									v. coarse			
									gravel			
									fine			
									medium			
									coarse			
									v. coarse			
									gravel			
									fine			
									medium			
									coarse			
									v. coarse			
									gravel			
									fine			
									medium			
									coarse			
									v. coarse			
									gravel			
									fine			



Elevation (feet MSL)

Depth (feet)

Core Disturbance

Bioturbation Intensity

Ro

Sorting

Munsell Color

Samples

Bedding/Contacts

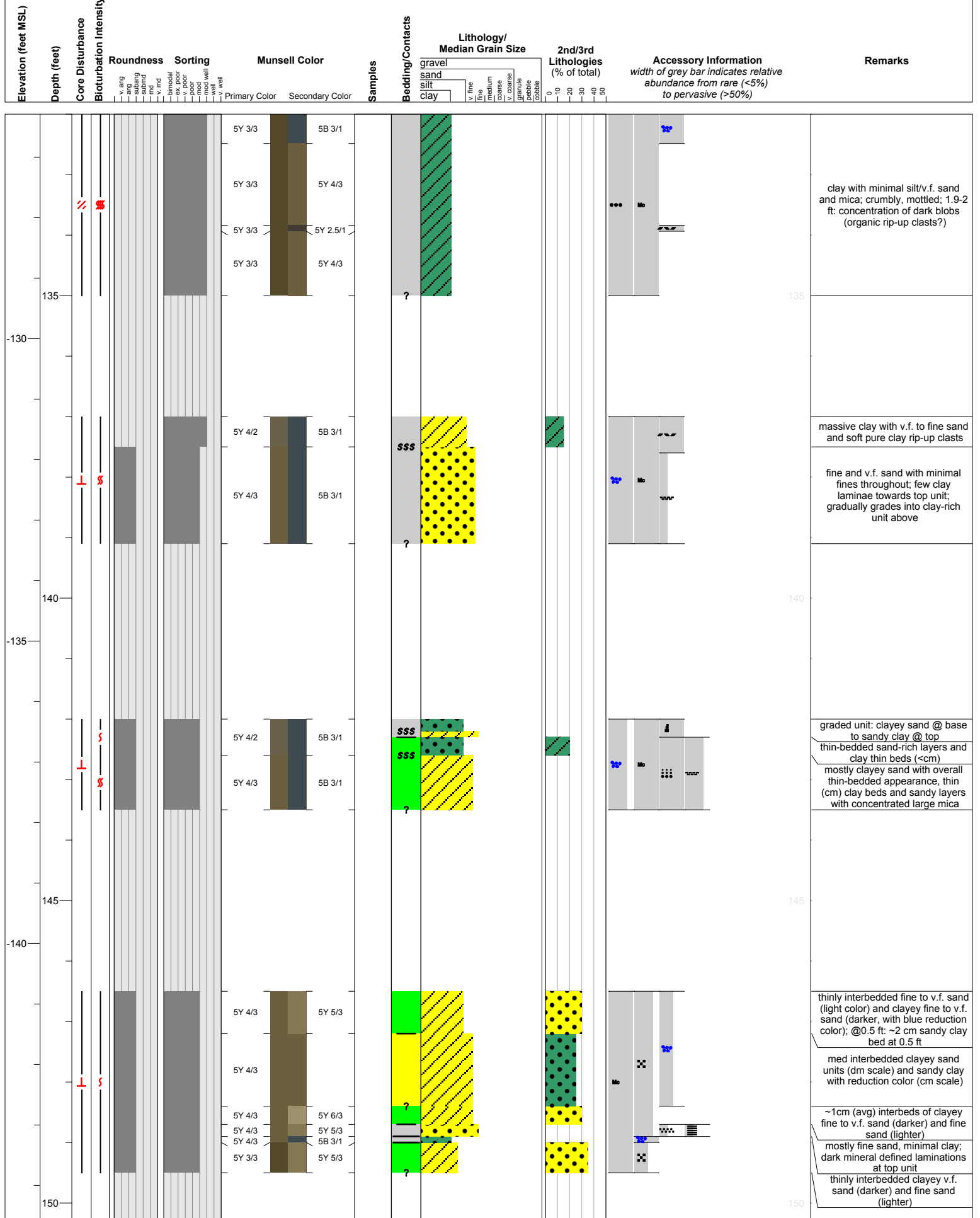
Lithology/
Median Grain Size

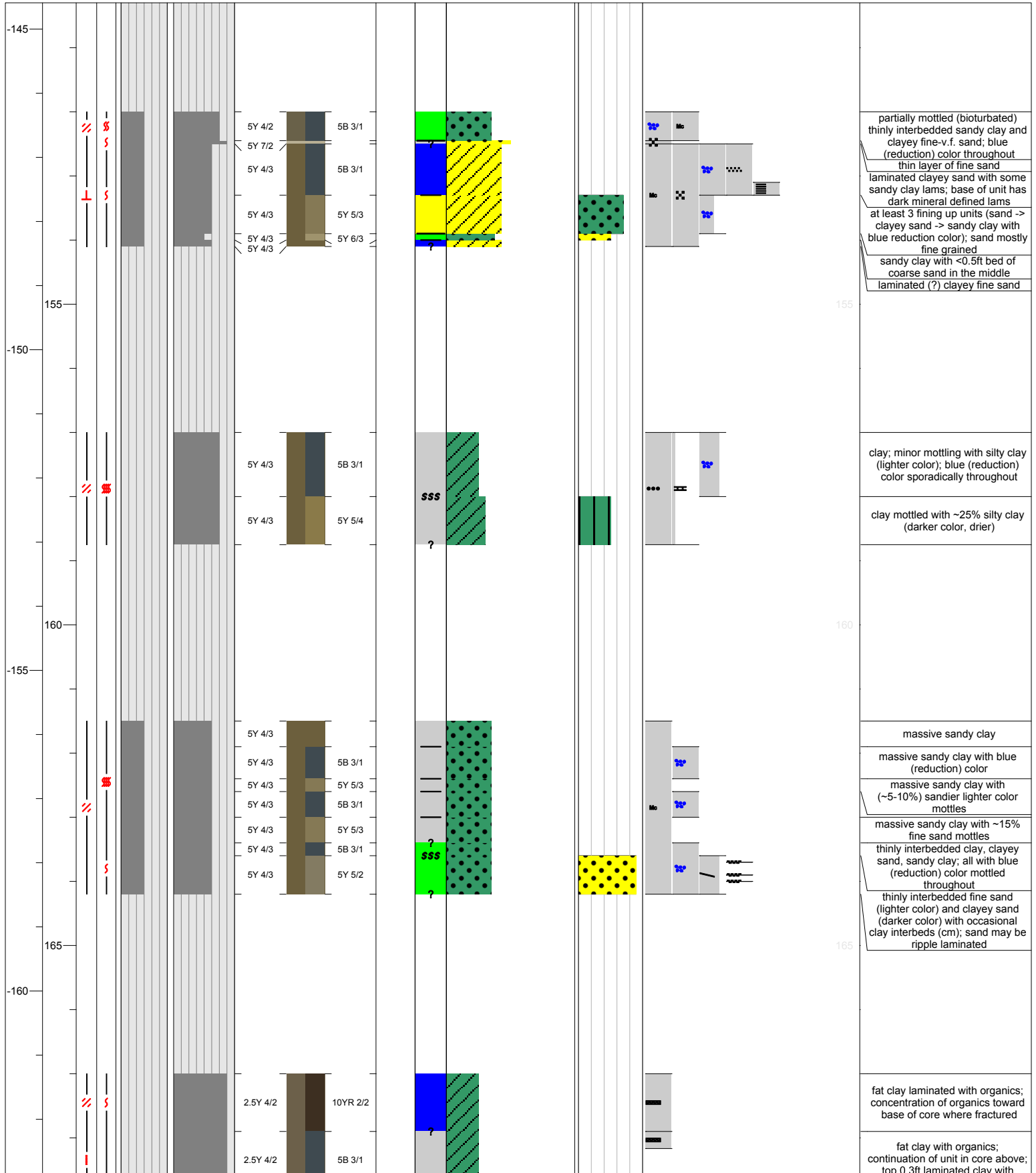
Lithologies
(% of total)

Accessory Information
width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)

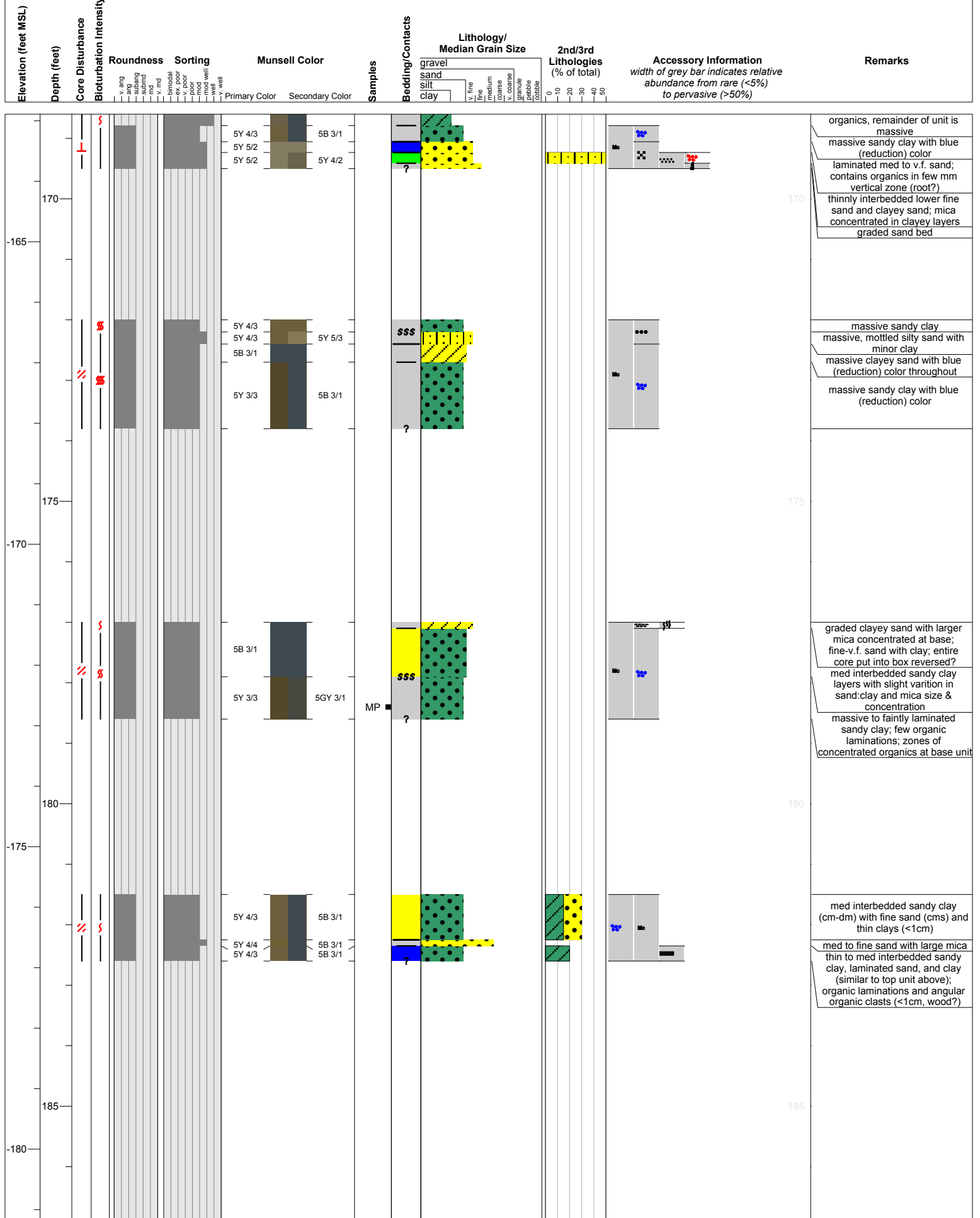
Remarks

DCRA-DH-016



[illegible]

DCRA-DH-016



Elevation (feet MSL)

Depth (feet)

Core Disturbance
Bioturbation Intensity

Bioturbation Intensity

Ro

Sorting

Munsell Color
y Color Secondary

Samples

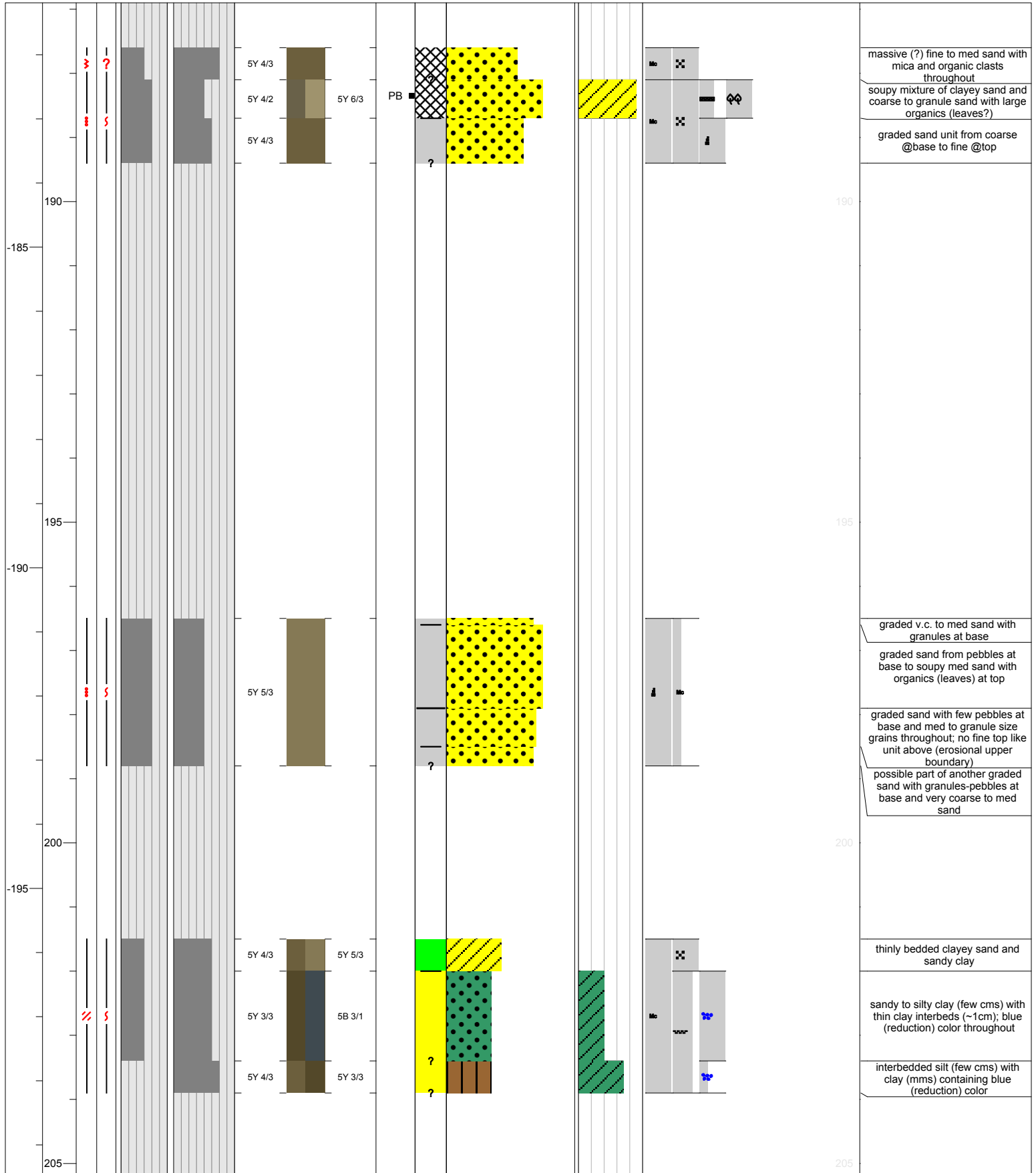
Bedding/Contacts

Lithology/ Median Grain Size	Level and
v. fine fine medium coarse v. coarse granule	

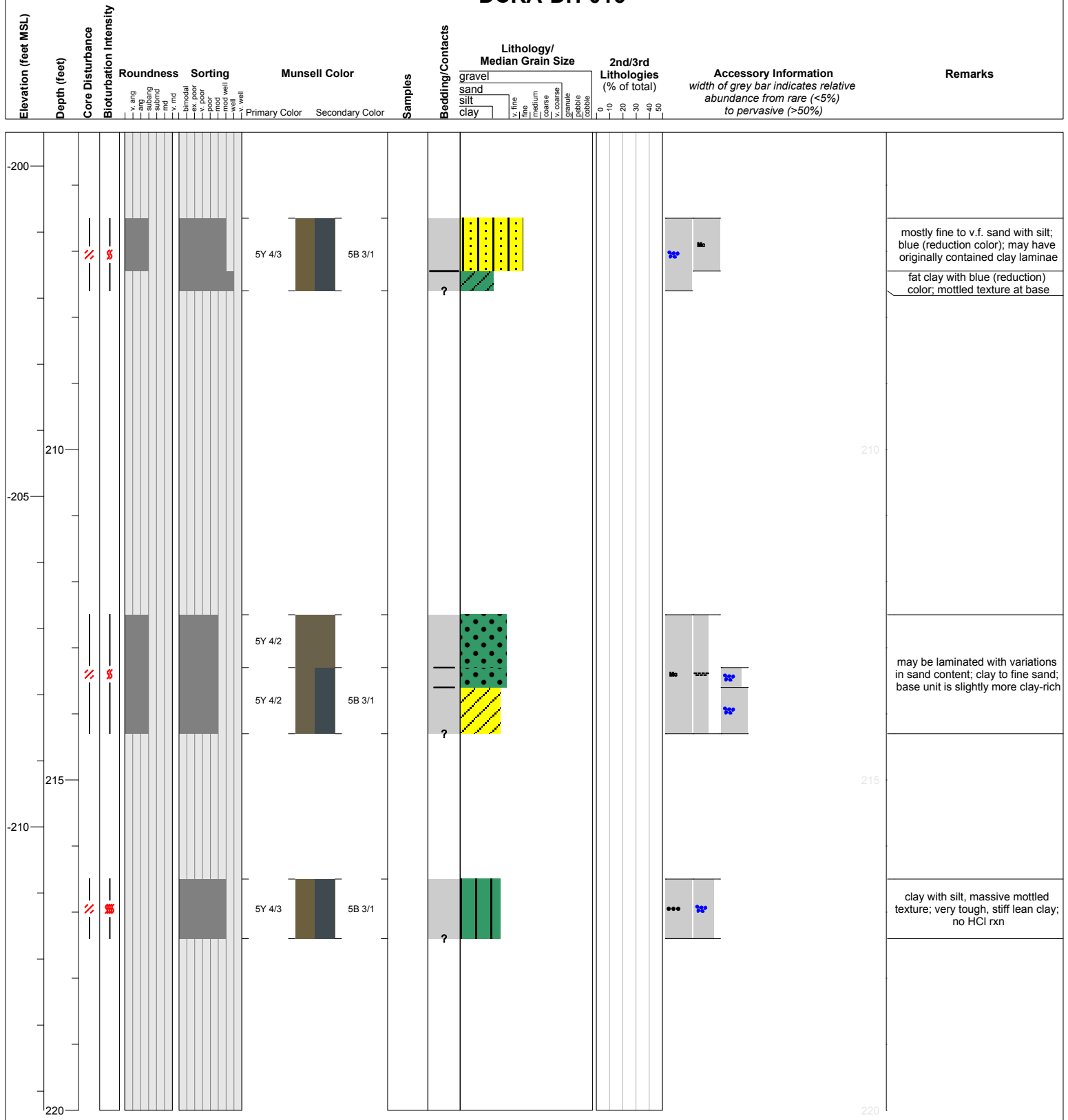
Lithologies
(% of total)

Accessory Information
width of grey bar indicates relative
abundance from rare (<5%)
to pervasive (>50%)

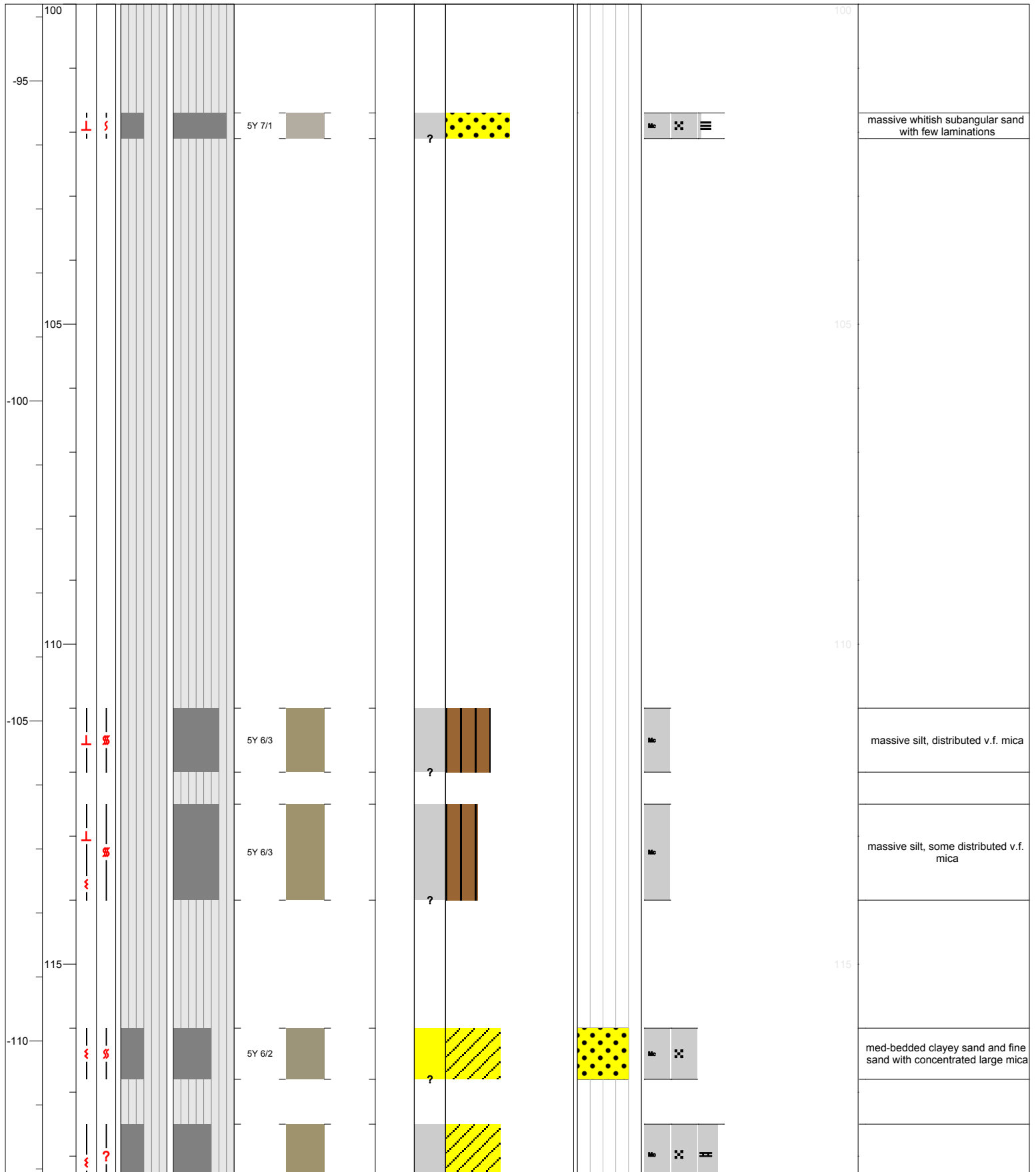
Remarks



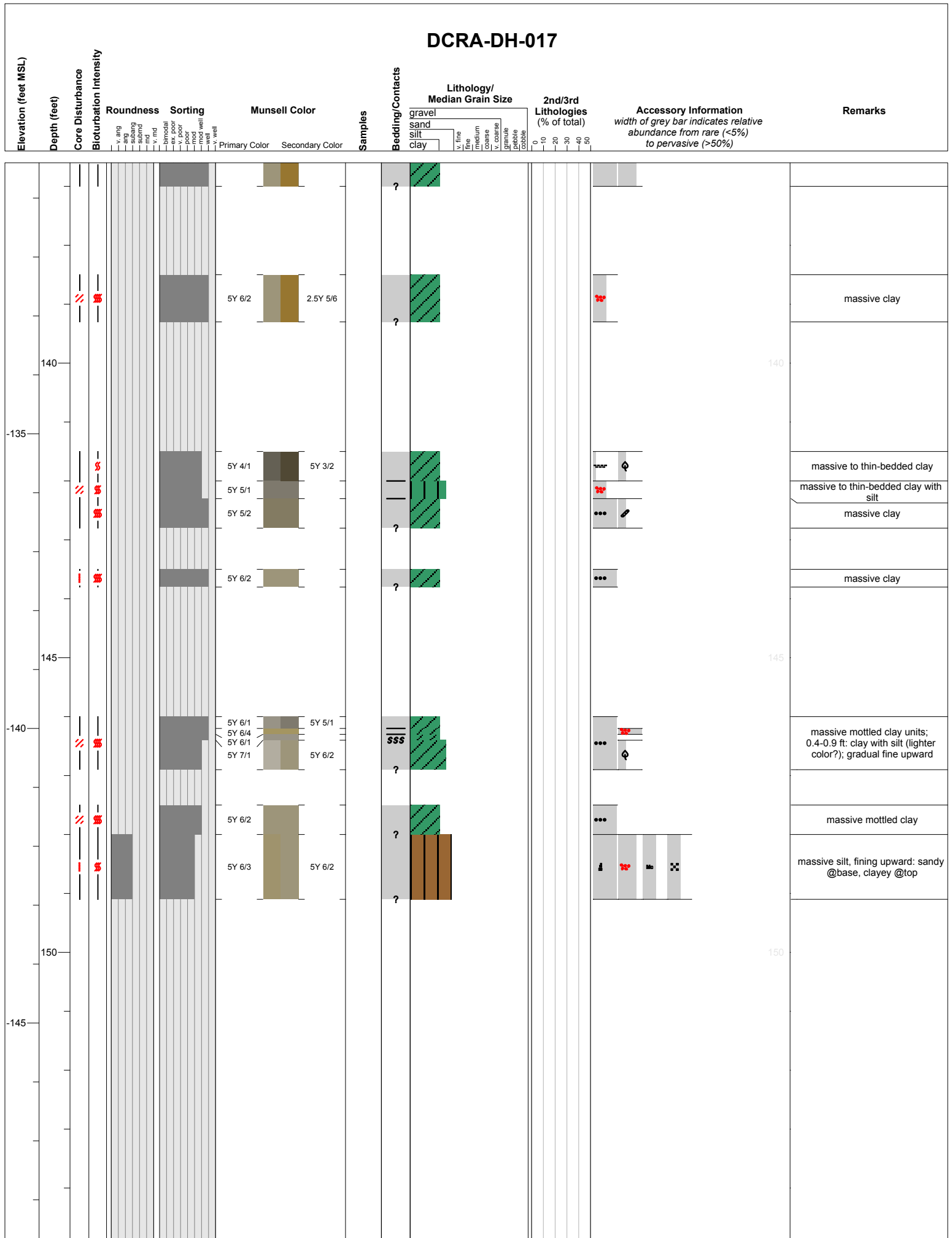
DCRA-DH-016



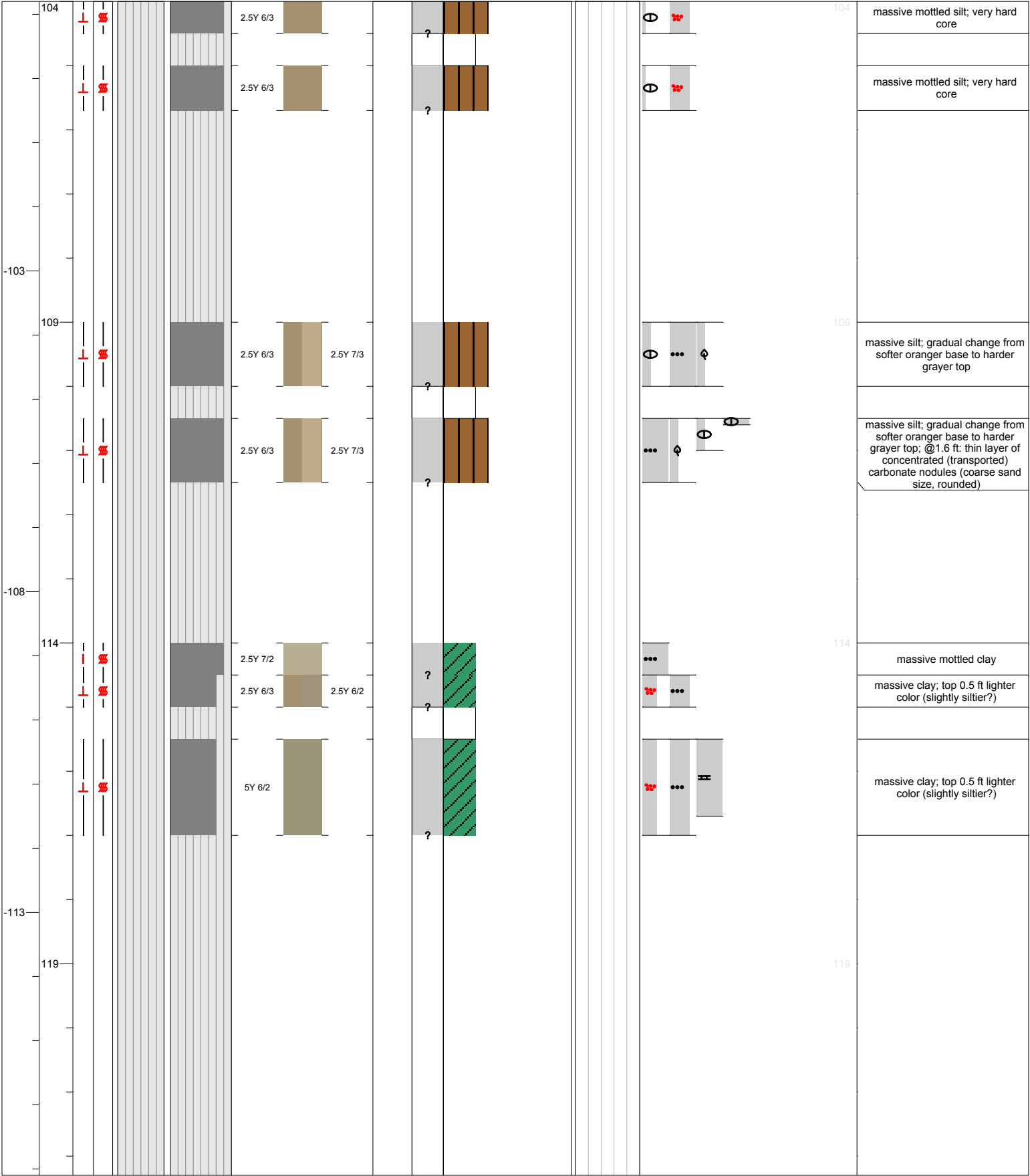
DCRA-DH-017												
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color Primary Color Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size	2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang.					gravel			
				ang.					sand			
				subang.					silt			
				fine					clay			
				md					v. fine			
				v. md					fine			
				bimodal					medium			
				ex. poor					coarse			
				poor					v. coarse			
				mod. poor					granule			
				nod					fine cobble			
				well					med. cobble			
				v. well					coarse cobble			



DCRA-DH-017



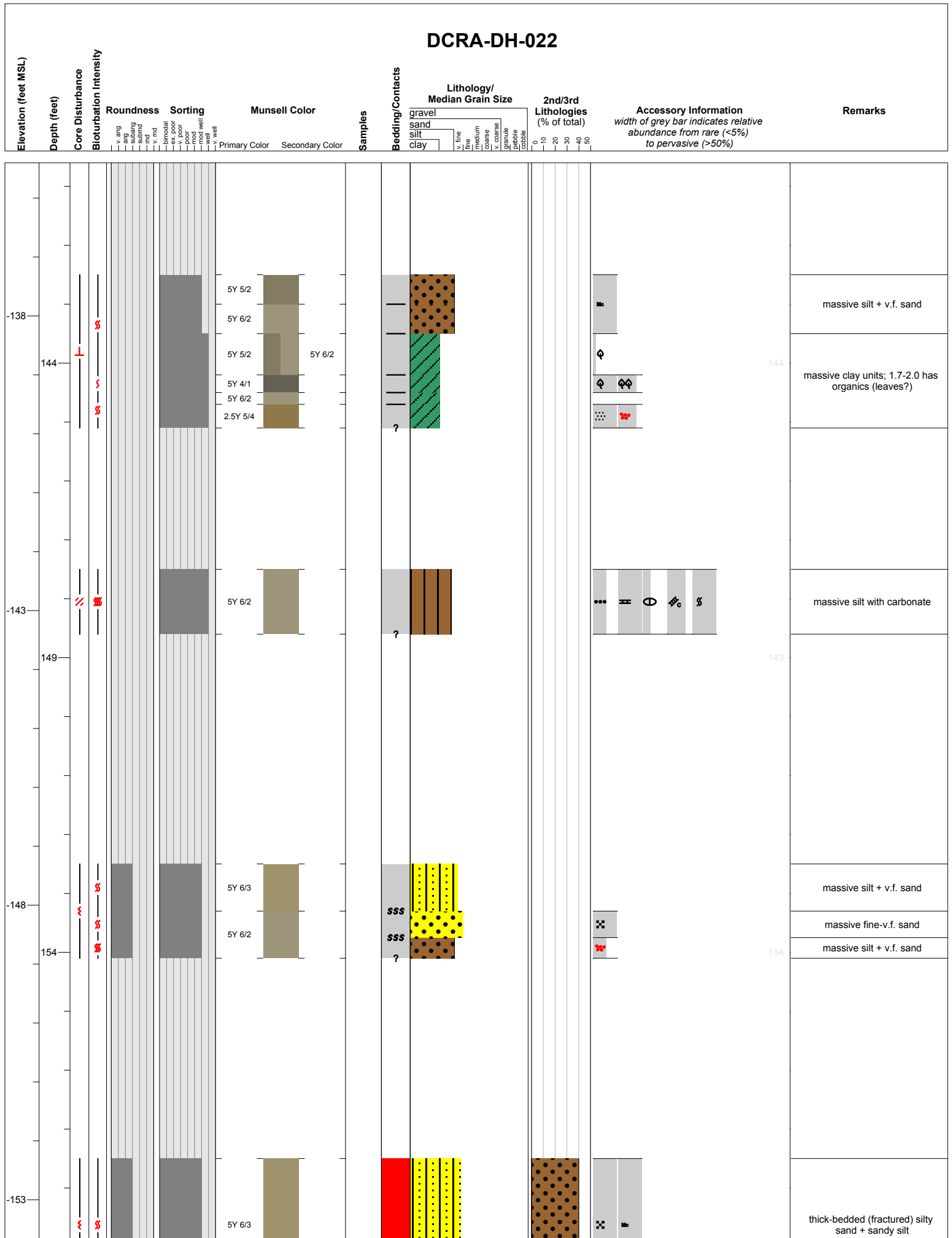
DCRA-DH-022										
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total) Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang ind v. ind bimodal ex. poor poor mod well v. well		Primary Color Secondary Color		gravel sand silt clay v. fine fine medium coarse v. coarse granule gravel cobble	0 10 20 30 40 50	



DCRA-DH-022



DCRA-DH-022



DCRA-DH-022													
Elevation (feet MSL)	Depth (feet)	Core Disturbance	Bioturbation Intensity	Roundness	Sorting	Munsell Color	Primary Color	Secondary Color	Samples	Bedding/Contacts	Lithology/ Median Grain Size 2nd/3rd Lithologies (% of total)	Accessory Information <i>width of grey bar indicates relative abundance from rare (<5%) to pervasive (>50%)</i>	Remarks
				v. ang ang subang subang md v. md bimodal ex. poor poor mod mod well well v. well						gravel sand silt clay v. fine fine medium coarse v. coarse fine coarse cobble	0 10 20 30 40 50		