

Mobil Oil CPR Delacour 5-3

03-05-26-26w4

Date Logged: June 22, 2012






Logged by: James MacEachern

Ground: 0.00 m KB: 0.00 m

Remarks: 3 inch unslabbed core. Excellent quality, good recovery. Core data indicates interval is 5621-5653 ft, but my measure of the core present in the boxes indicates that there is an additional 3 feet of core. Core has been logged as 5621-5656ft. A lot of individual pieces of core are upside down and a number of facies transitions occur at the bases of boxes, making me suspect core may not be in the correct order.

LEGEND












LITHOLOGY

 Sandstone	 Muddy Siltstone	 Shale	 Lost Core
 Siltstone			







CONTACTS

 Sharp	 Uncertain
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
PHYSICAL STRUCTURES

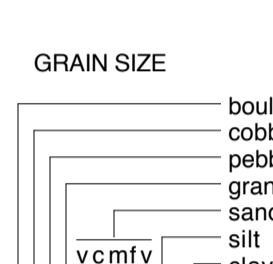
 Current-Ripple Lam.	 Trough Cross-strat.	 Sym.-Ripple Lam.	 Gently Inclined Lam.
 Wavy Bed./Lam	 Convolute Bedding	 Synaeresis Cracks	 Load Casts
 Parallel Bed./Lam.	 Indistinct	 Combined Flow Ripple	

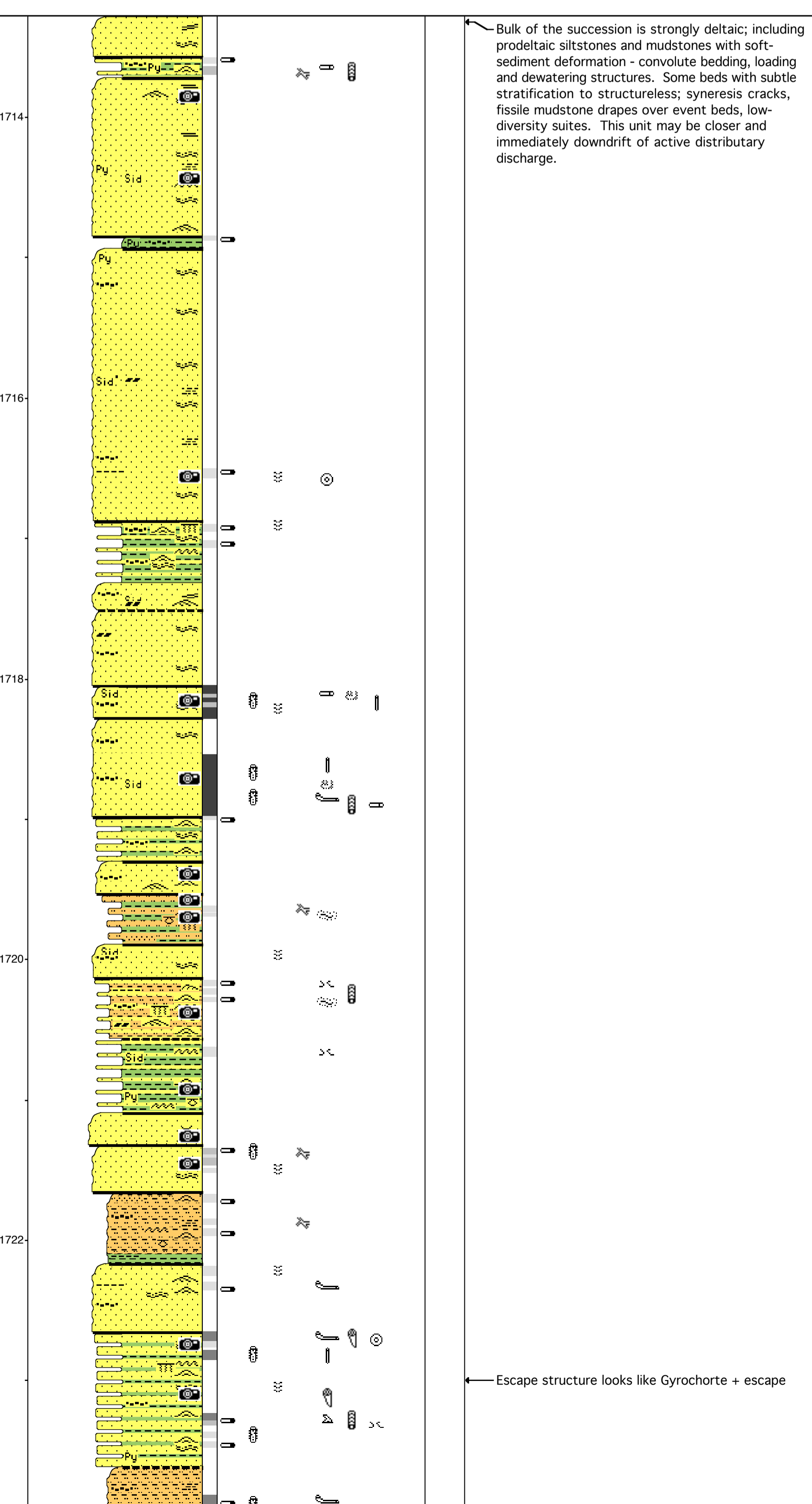
LITHOLOGIC ACCESSORIES

 Sand Lamina	 Shale Lamina	 Siderite	 Pyrite
 Rip Up Clasts	 Organic Frags.		

ICHNOFOSSILS

 Skolithos	 Planolites	 Palaeophycus	 Macaronichnus
 Ophiomorpha	 Escape Trace	 Cylindrichnus	 Thalassinoides
 Chondrites	 Terebellina	 Teichichnus	 navichnia
 Siphonichnus	 Phycosiphon		

	GRAIN SIZE	BIOTURBATION INDEX	ICHNOFOSSILS	FOSSILS	REMARKS
METERS	 <ul style="list-style-type: none"> boulder cobble pebble granule sand silt clay 				



Date Logged: June 19, 2012

Logged by: James MacEachern

Remarks: 4" slabbed core. 1/3 slabs show microporimeter work was likely conducted? 4m lost recovery between core 2 and core 3.

LEGEND

LITHOLOGY

	Sandstone		Shale		Pedogenic Mudstone
	Silty Sandstone		Sandy Shale		Bentonite
	Muddy Sandstone		Clast-Sup Cgl		Lost Core
	Muddy Siltstone		Org. Sandstone		

CONTACTS

	Sharp		Erosional
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PHYSICAL STRUCTURES

	Current-Ripple Lam.		Sym.-Ripple Lam.		High-Angle Tab./Tan. Beds
	Gently Inclined Lam.		Wavy Bed./Lam.		Hummocky Cross-strat.
	Convolute Bedding		Graded Bedding		Micro-fault (sed.)
	Mud Cracks		Load Casts		Parallel Bed./Lam.
	Combined Flow Ripple				

LITHOLOGIC ACCESSORIES

	Sand Lamina		Silt Lamina		Shale Lamina
	Coal Lamina		Organic Lamina		Siderite
	Bentonite		Pyrite		Rip Up Clasts
	Organic Frags.		Paleosol Horizon		Dispersed Pebbles/Granules

ICHOFOSSILS

	Rootlets		Skolithos		Planolites
	Palaeophycus		Diplocraterion		Arenicolites
	Macaronichnus		Ophiomorpha		Escape Trace
	Rhizocorallium		Cylindrichnus		Asterosoma
	Rosselia		Thalassinoides		Chondrites
	Schaubcylichnus freyi		Teichichnus		Zoophycos
	Helminthopsis		navichnia		Scolicia
	Siphonichnus		Phycosiphon		

FACIES

Fw	Wf	W
none		

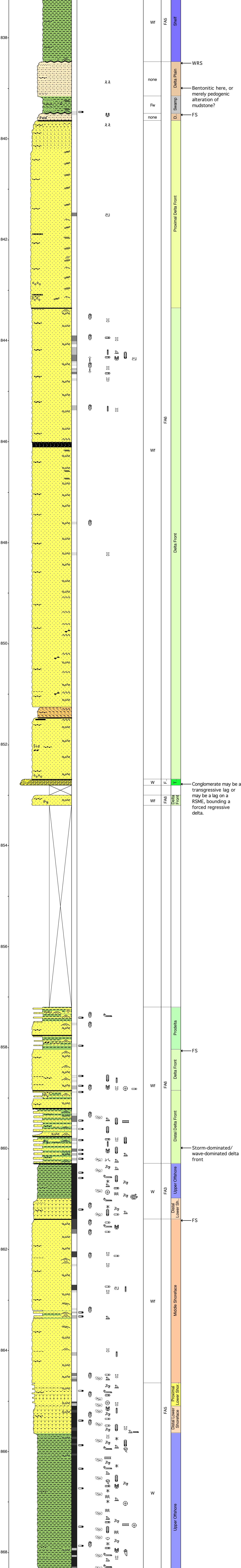
FACIES ASSOCIATION

FA6	FA3	FA5
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DEPOSITIONAL ENVIRONMENT

	Shelf		Transgressive Lag		Middle Shoreface
	Swamp		Prodelta		Proximal Lower Shoreface
	Delta Plain		Delta Front		Distal Lower Shoreface
	Proximal Delta Front		Distal Delta Front		Upper Offshore

METERS	GRAIN SIZE	BICTURBATION INDEX	ICHOFOSSILS	FACIES	FACIES ASSOCIATION	DEPOSITIONAL ENVIRONMENT	REMARKS
	boulder cobble pebble granule sand silt clay						



Date Logged: June 21, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

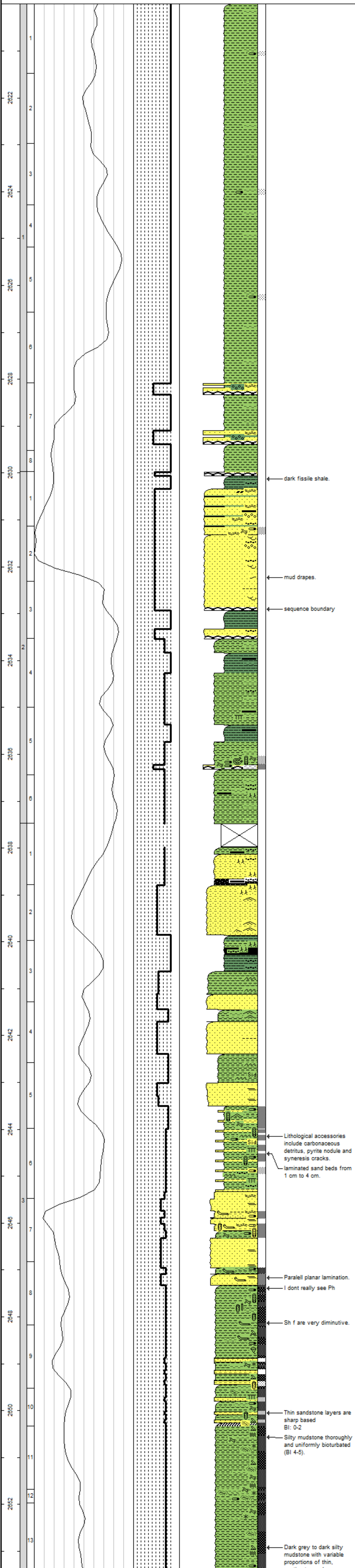
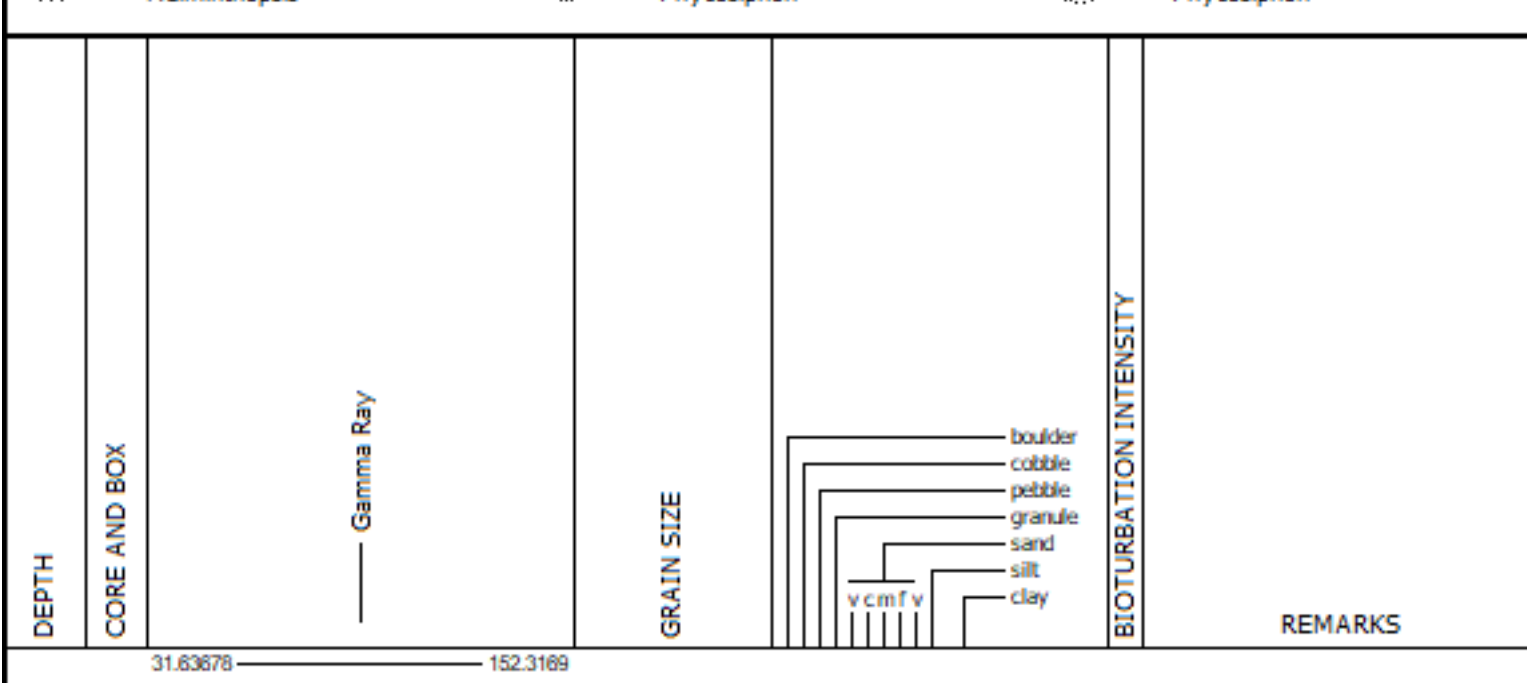
LEGEND

LITHOLOGY					
	Sandstone		Silty Sandstone		Shale
	Silty Mudstone		Sandy Mudstone		Mudstone
	Coal		Org. Sandstone		Lost Core

PHYSICAL STRUCTURES					
	Current-Ripple Lam.		Trough Cross-strat.		Sym.-Ripple Lam.
	Wavy Bed./Lam.		Convolute Bedding		Synaeresis Cracks
	Parallel Bed./Lam.		Mud/H. min. drapes		Combined Flow Ripple

LITHOLOGIC ACCESSORIES					
	Silt Lamina		Shale Lamina		Coal Lamina
	Siderite		Rip Up Clasts		Organic Frags.
	Dispersed Pebbles/Granules				

ICHTHOFOSSILS					
	Rootlets		Skolithos		Planolites
	Palaeophycus		Ophiomorpha		Rhizocorallium
	Asterosoma		Rosselia		Thalassinoides
	Chondrites		Schaubcylindrichnus freyi		Teichichnus
	Helminthopsis		Phycosiphon		Phycosiphon



Date Logged: May 5, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield project

LEGEND

LITHOLOGY

- | | | |
|-----------|--------------|----------------|
| Sandstone | Shale | Silty Mudstone |
| Mudstone | Conglomerate | Lost Core |

PHYSICAL STRUCTURES

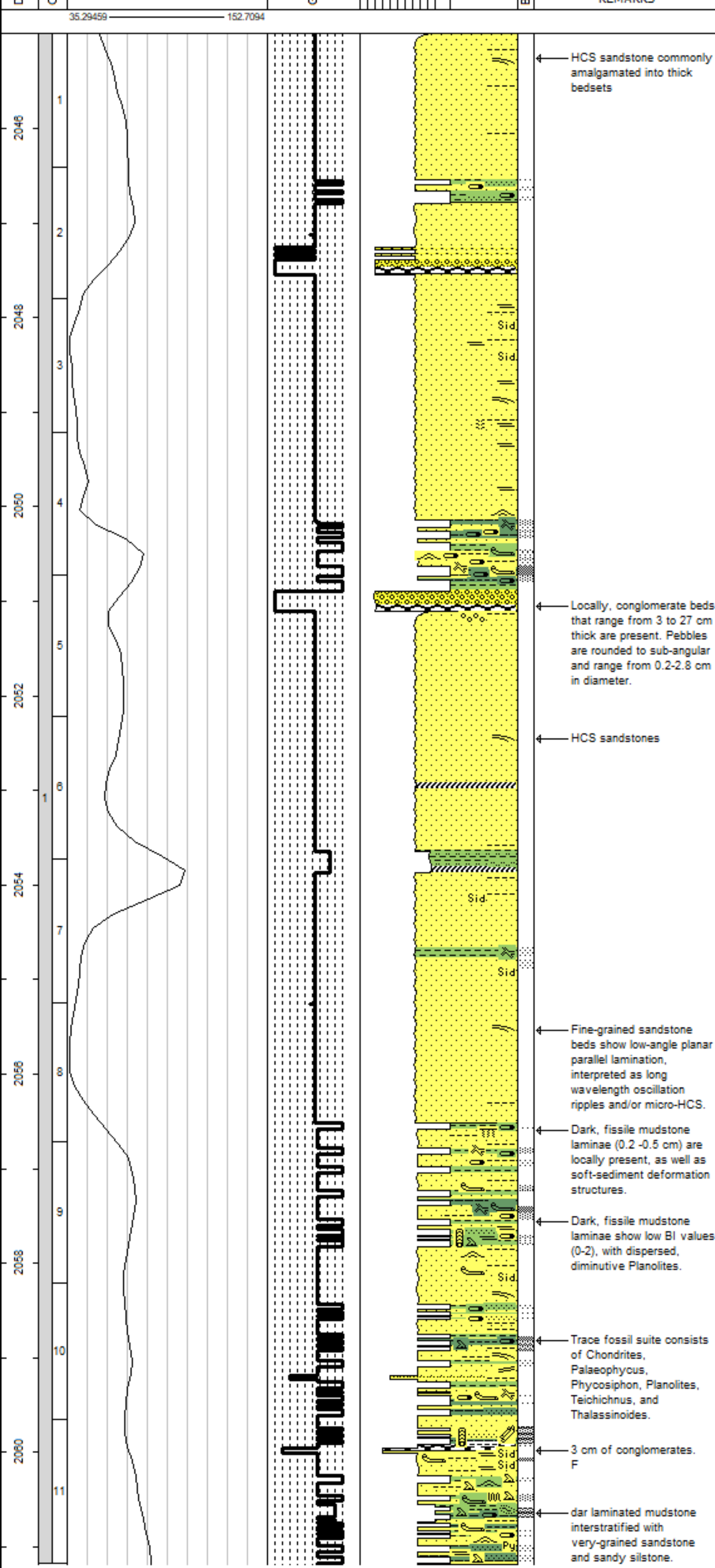
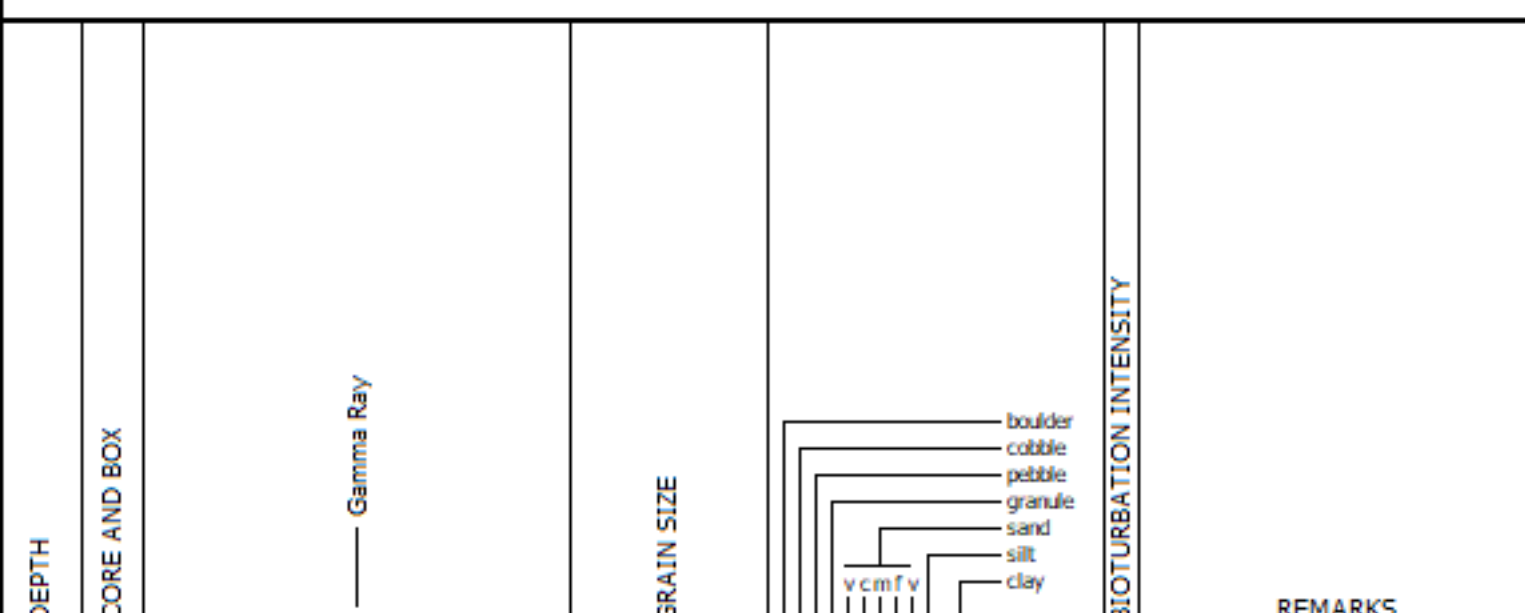
- | | | |
|-------------------|----------------------|-----------------------|
| Sym.-Ripple Lam. | Gently Inclined Lam. | Hummocky Cross-strat. |
| Synaeresis Cracks | Parallel Bed./Lam. | |

LITHOLOGIC ACCESSORIES

- | | | |
|-------------|-------------|----------------------------|
| Sand Lamina | Silt Lamina | Shale Lamina |
| Siderite | Pyrite | Dispersed Pebbles/Granules |

ICHTNOFOSSILS

- | | | |
|---------------|---------------------------|-----------------------------|
| Planolites | Escape Trace | Thalassinoides |
| Chondrites | Schaubcylindrichnus freyi | Teichichnus |
| Helminthopsis | Phycosiphon | Schaubcylindrichnus coronus |









06-06-030-02W5

Date Logged: June 29, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

LEGEND





LITHOLOGY

 Sandstone	 Shale	 Sandy Mudstone
 Mudstone	 Org. Sandstone	 Lost Core




PHYSICAL STRUCTURES

 - Trough Cross-strat.	 - Wavy Bed./Lam
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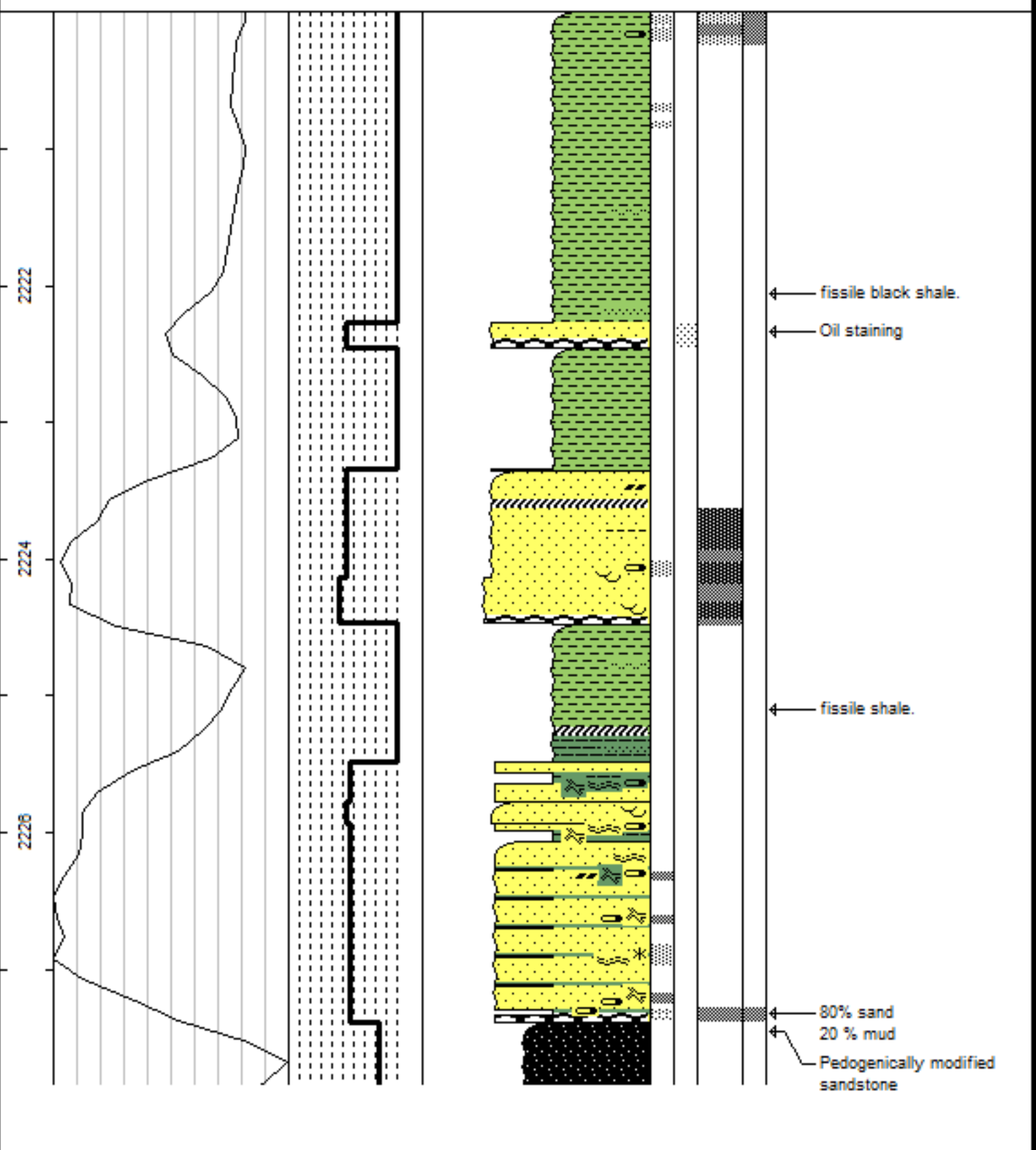
LITHOLOGIC ACCESSORIES

 - Sand Lamina	 - Silt Lamina	 - Shale Lamina
 - Rip Up Clasts		

ICHTNOFOSSILS

 - Planolites	 - Asterosoma	 - Thalassinoides
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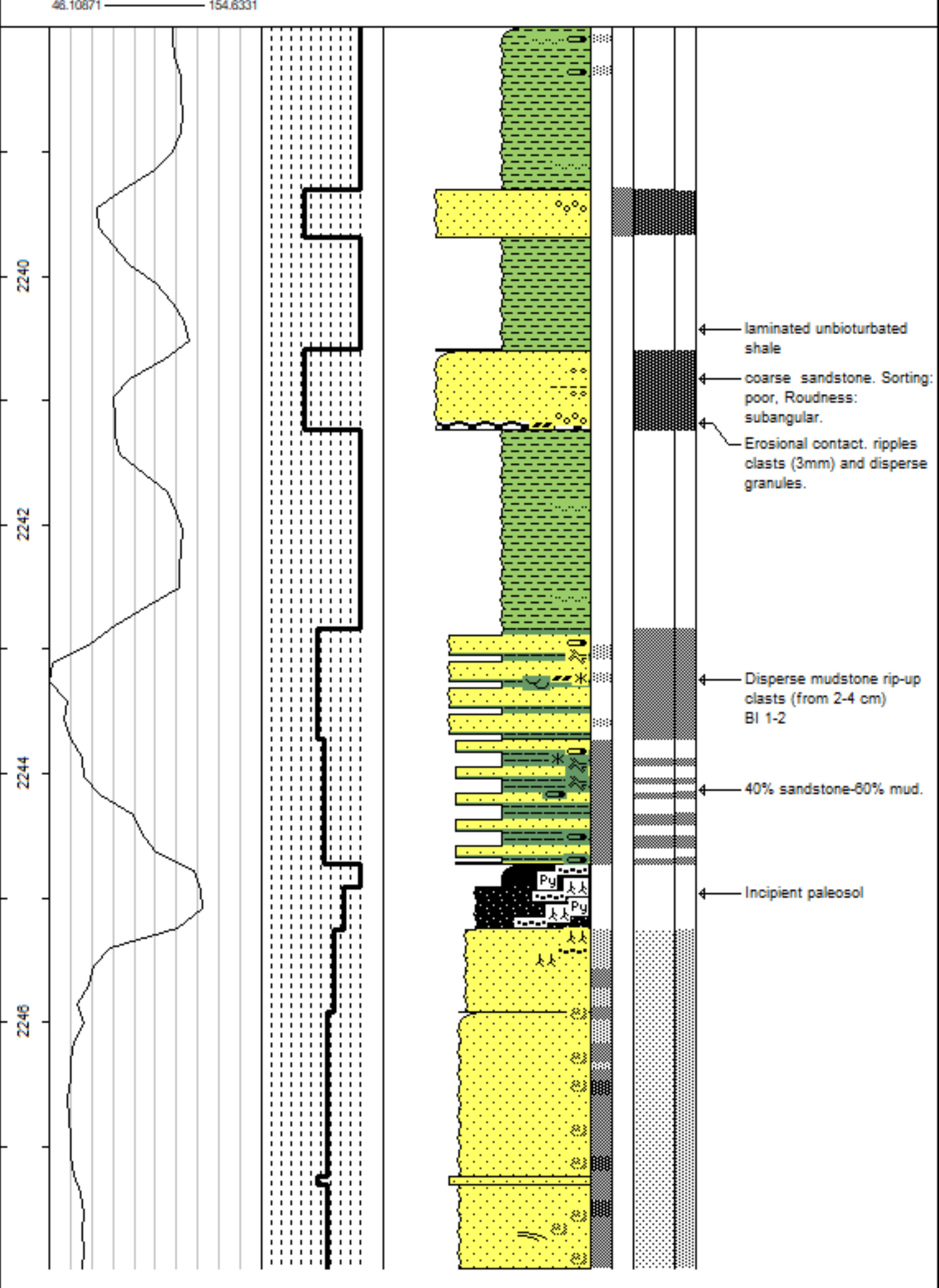
DEPTH	Gamma Ray	GRAIN SIZE	BIOTURBATION INTENSITY	STAIN	SORTING	ROUNDNESS	REMARKS
46.3424		vc mfv	clay silt sand granule pebble cobble boulder				



06-11-030-03W5

Date Logged: May 12, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project.

DEPTH	Gamma Ray	GRAIN SIZE	BIOTURBATION INTENSITY	STAIN	SORTING	ROUNDNESS	REMARKS
	— Gamma Ray	v c m f v boulder cobble pebble granule sand silt clay					
46.10871	154.6331						



06-12-030-03W5

Date Logged: May 12, 2017

Logged by: NAKARI DIAZ

Ground: 0.00 m KB: 0.00 m

Remarks: Crossfield Project. Core taken in 1987.

LEGEND

LITHOLOGY

<p> Sandstone</p> <p> Mudstone</p> <p> Org. Sandstone</p>	<p> Silty Sandstone</p> <p> Coal</p> <p> Lost Core</p>	<p> Shale</p> <p> Conglomerate</p>
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PHYSICAL STRUCTURES

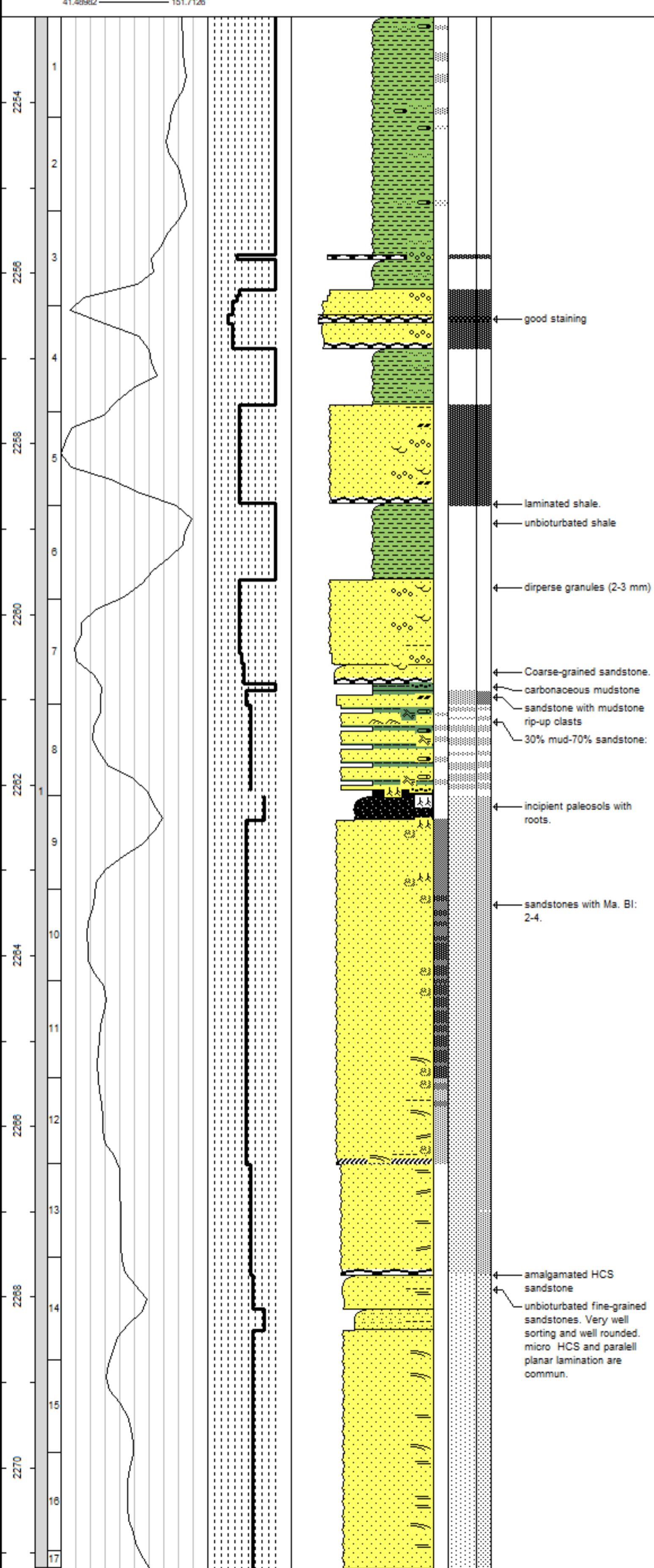
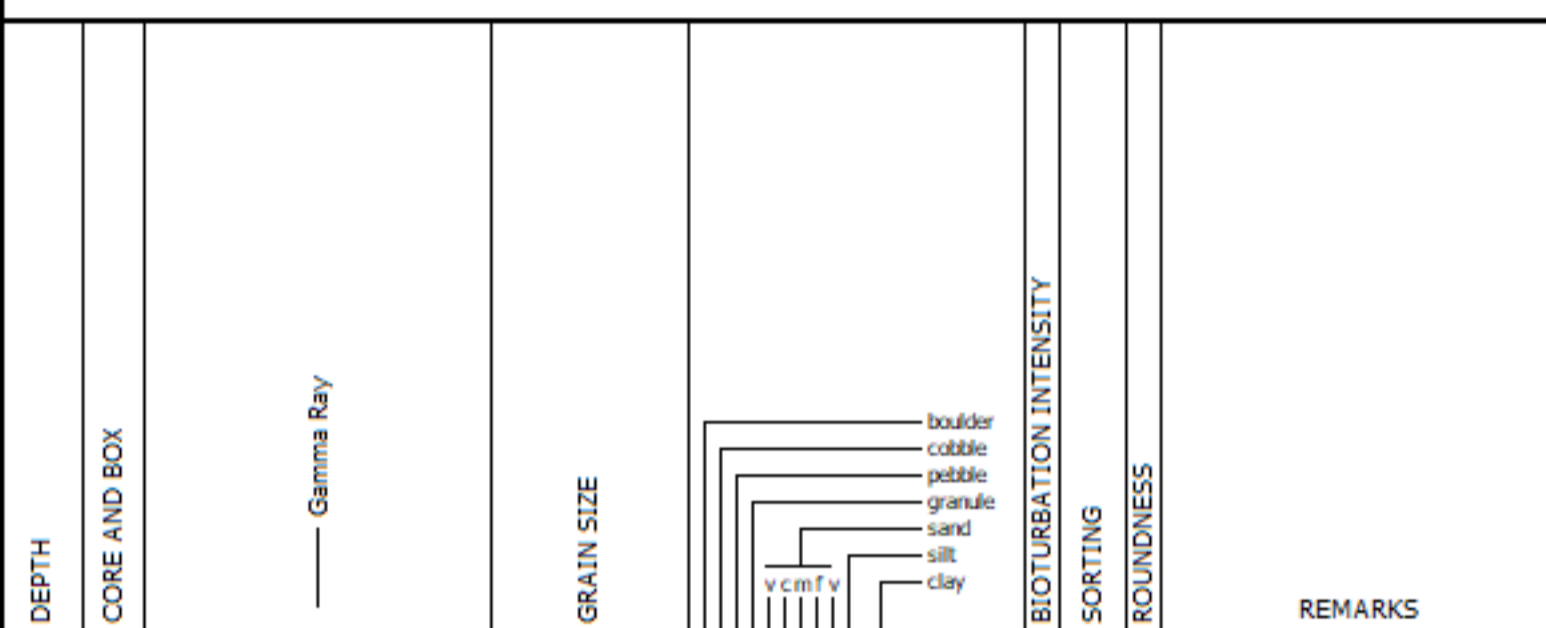
<p> Current-Ripple Lam.</p> <p> Hummocky Cross-strat.</p>	<p> Trough Cross-strat.</p> <p> Parallel Bed./Lam.</p>	<p> Gently Inclined Lam.</p>
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LITHOLOGIC ACCESSORIES

<p> Silt Lamina</p> <p> Organic Frags.</p>	<p> Shale Lamina</p> <p> Dispersed Pebbles/Granules</p>	<p> Rip Up Clasts</p>
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ICHTNOFOSSILS

<p> Rootlets</p> <p> Macaronichnus</p>	<p> Planolites</p> <p> Thalassinoides</p>	<p> Palaeophycus</p>
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Amoco Crossfield East

06-14-27-01w5

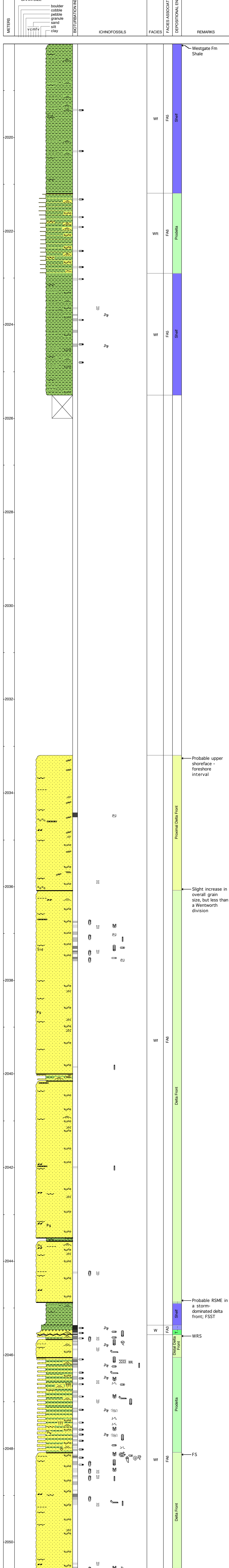
Date Logged: June 22, 2012

Logged by: James MacEachern

Remarks: 3 inch unslabbed core. Core 2 good quality and excellent recovery. Core 1 occurs 8m above this core and is entirely Westgate Fm shelf shale.

LEGEND

LITHOLOGY					
	Sandstone		Shale		Lost Core
	Muddy Sandstone		Sandy Shale		
CONTACTS					
	Sharp		Erosional		
PHYSICAL STRUCTURES					
	Current-Ripple Lam.		Sym.-Ripple Lam.		High-Angle Tab./Tan. Beds
	Gently Inclined Lam.		Wavy Bed./Lam.		Synaeresis Cracks
	Load Casts		Parallel Bed./Lam.		Indistinct
	Combined Flow Ripple				
LITHOLOGIC ACCESSORIES					
	Sand Lamina		Shale Lamina		Organic Lamina
	Siderite		Bentonite		Pyrite
	Rip Up Clasts		Organic Frags.		Dispersed Pebbles/Granules
ICHTHOFOSSILS					
	Skolithos		Planolites		Palaeophycus
	Diplocraterion		Macaronichnus		Ophiomorpha
	Escape Trace		Rhizocorallium		Cylindrichnus
	Rosselia		Thalassinoides		Chondrites
	Schaubcyndrichnus freyi		Teichichnus		Helminthopsis
	navichnia		Siphonichnus		Taenidium
	Phycosiphon				
FACIES					
Wrt		W		Wf	
FACIES ASSOCIATION					
FA5		FA3		FA6	
DEPOSITIONAL ENVIRONMENT					
	Proximal Delta Front		Transgressive Sand Sheet		Delta Front
	Shelf		Distal Delta Front		Prodelta
	Upper Offshore				



06-14-030-04W5

Date Logged: June 20, 2017

Logged by: NAKARI DIAZ

Ground: 0.00 m KB: 0.00 m

Remarks: CROSSFIELD PROJECT. This core has core 2 and core 3 (no core1). I went through this core with James.

LEGEND

LITHOLOGY

Sandstone	Silty Mudstone	Sandy Mudstone	Mudstone
Conglomerate	Org. Sandstone	Lost Core	

PHYSICAL STRUCTURES

Current-Ripple Lam.	Trough Cross-strat.	High-Angle Tab./Tan. Be	Gently Inclined Lam.
Wavy Bed./Lam	Hummocky Cross-strat.	Convolute Bedding	Parallel Bed./Lam.

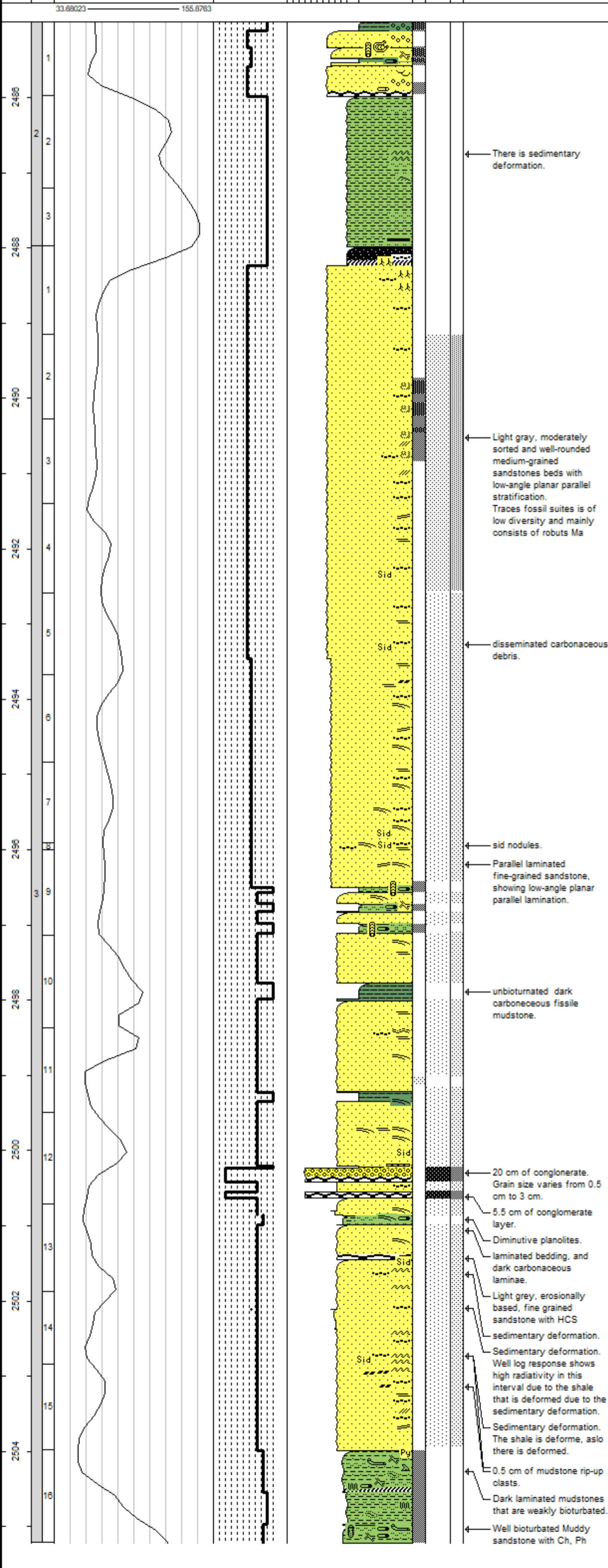
LITHOLOGIC ACCESSORIES

Silt Lamina	Coal Lamina	Organic Lamina	Siderite
Pyrite	Rip Up Clasts	Organic Frags.	Dispersed Pebbles/Gran

ICHTNOFOSSILS

Rootlets	Planolites	Palaeophycus	Macaronichnus
Ophiomorpha	Rhizocorallium	Thalassinoides	Chondrites
Schaubcylichnus freyi	Teichichnus	Helminthopsis	Phycosiphon

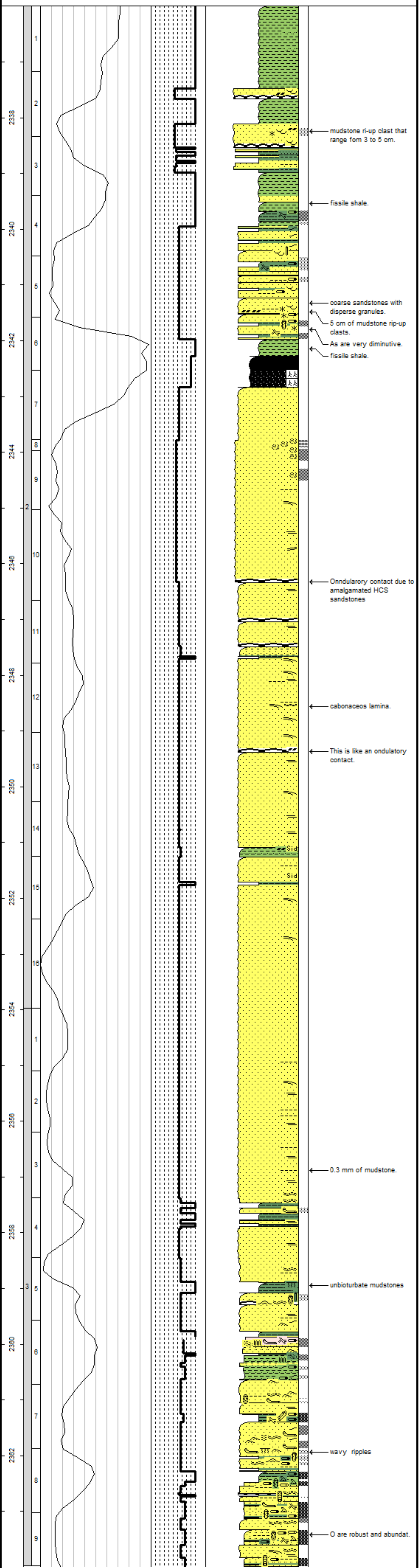
DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	SORTING	ROUNDNESS	REMARKS
	Gamma Ray					



06-17-030-03W5

Date Logged: June 16, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	REMARKS
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06-19-029-01W5

Date Logged: May 31, 2017
 Logged by:
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project.

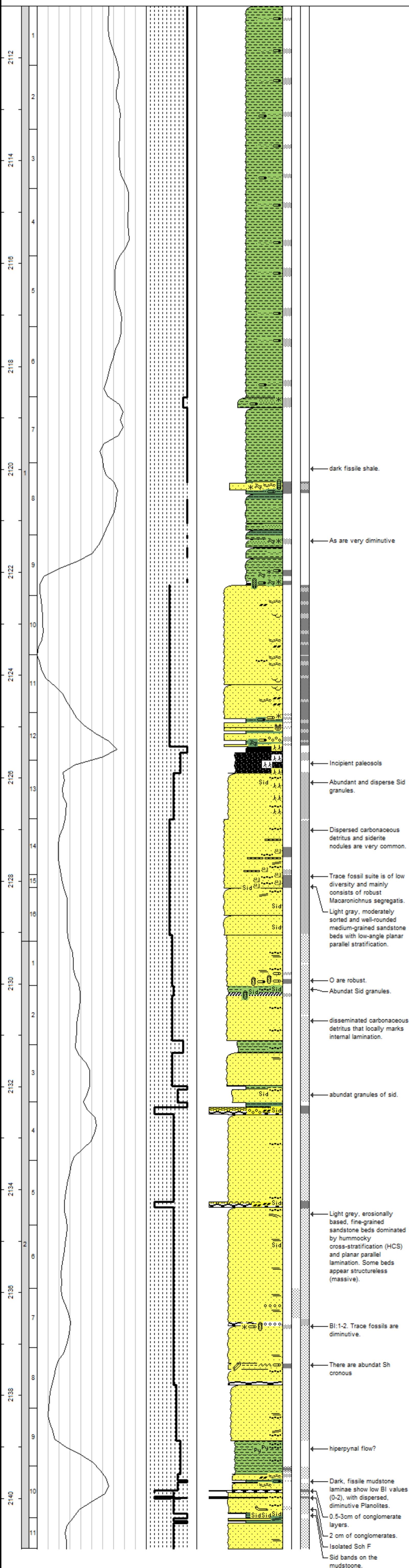
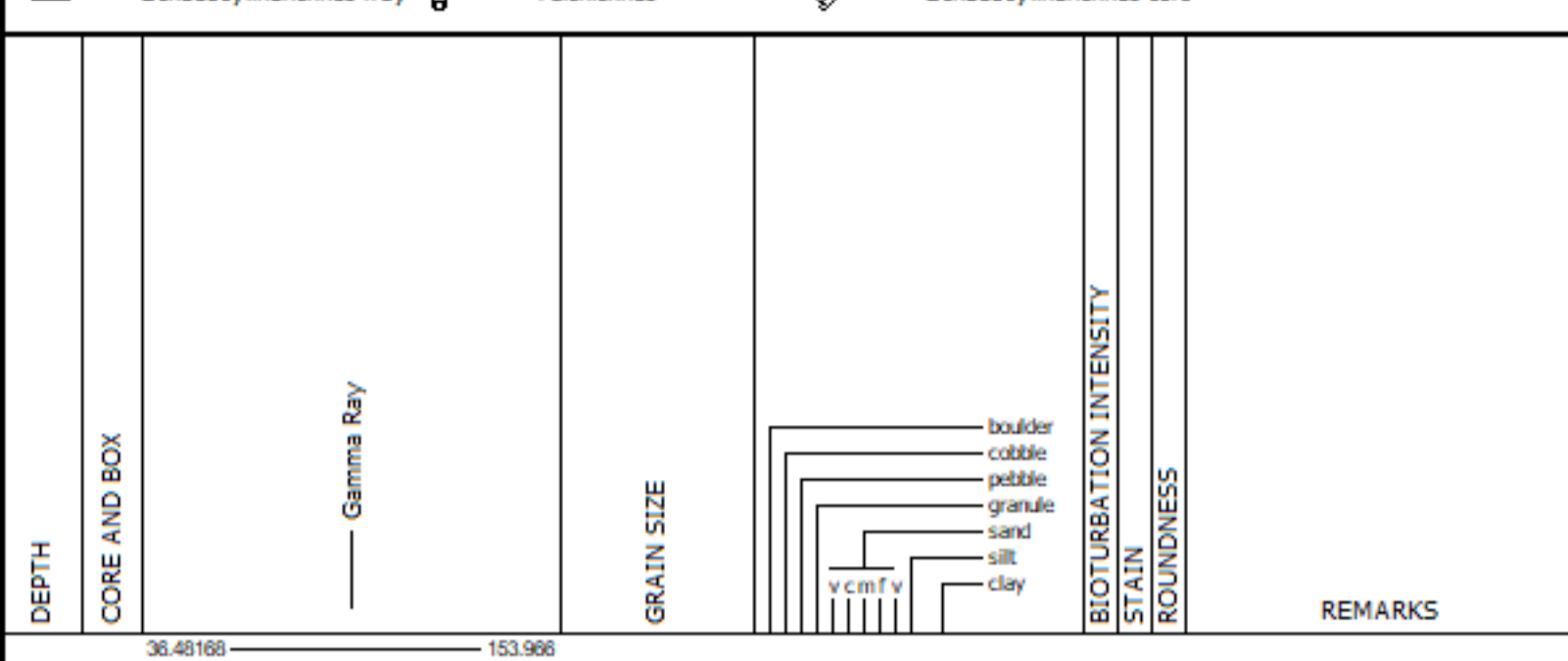
LEGEND

LITHOLOGY			
Sandstone	Silty Sandstone	Shale	Sandy Mudstone
Mudstone	Coal	Clast-Sup Cgl	Conglomerate
Org. Sandstone	Lost Core		

PHYSICAL STRUCTURES			
Trough Cross-strat.	Gently Inclined Lam.	Wavy Bed./Lam	Hummocky Cross-strat
Convolute Bedding	Parallel Bed./Lam.		

LITHOLOGIC ACCESSORIES			
Sand Lamina	Silt Lamina	Shale Lamina	Organic Lamina
Siderite	Pyrite	Rip Up Clasts	Organic Frags.
Dispersed Pebbles/Granules	Pebble/Granule Stringer		











ICHTHOFOSSILS			
Rootlets	Planolites	Palaeophycus	Diplocraterion
Macaronichnus	Ophiomorpha	Asterosoma	Thalassinoides
Schaubcylindrichnus frey	Teichichnus	Schaubcylindrichnus conc	















06-20-030-04W5






Date Logged: July 14, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks:

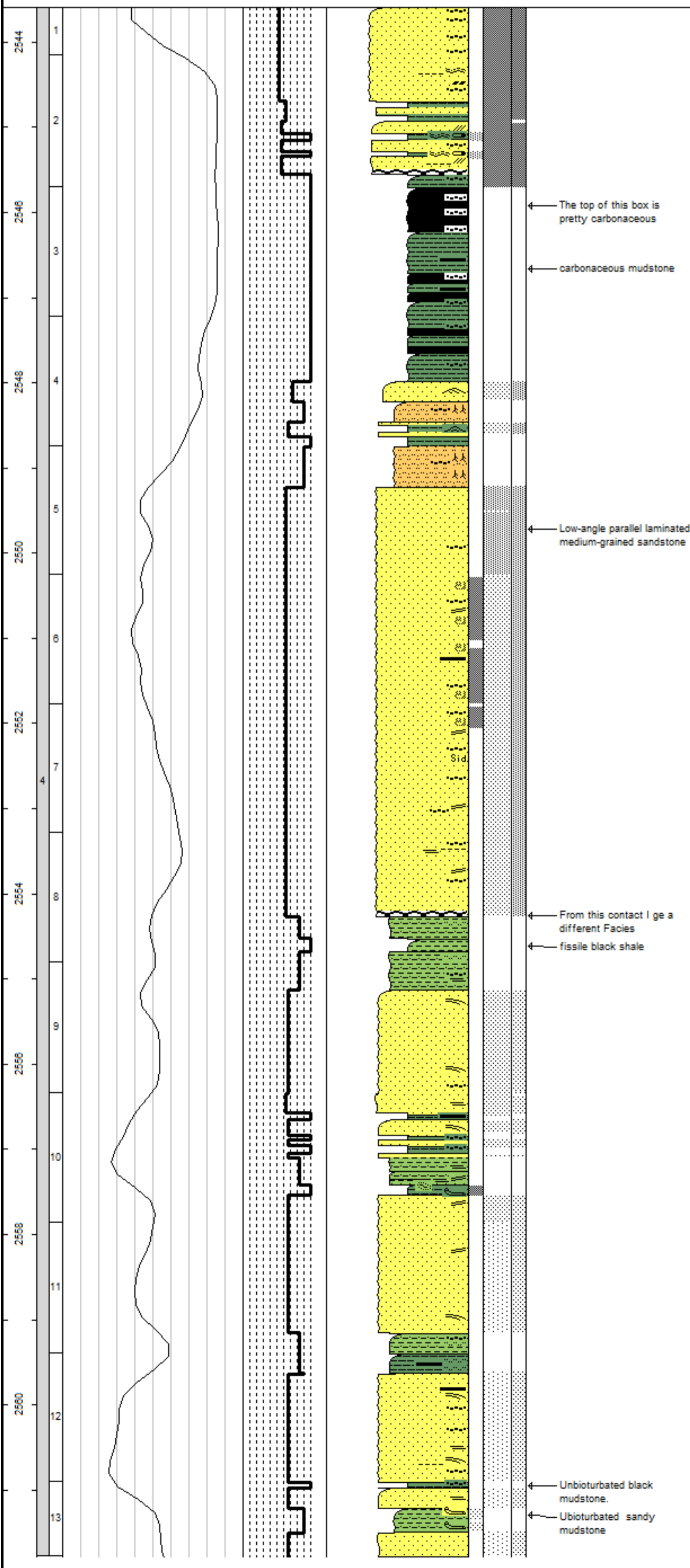
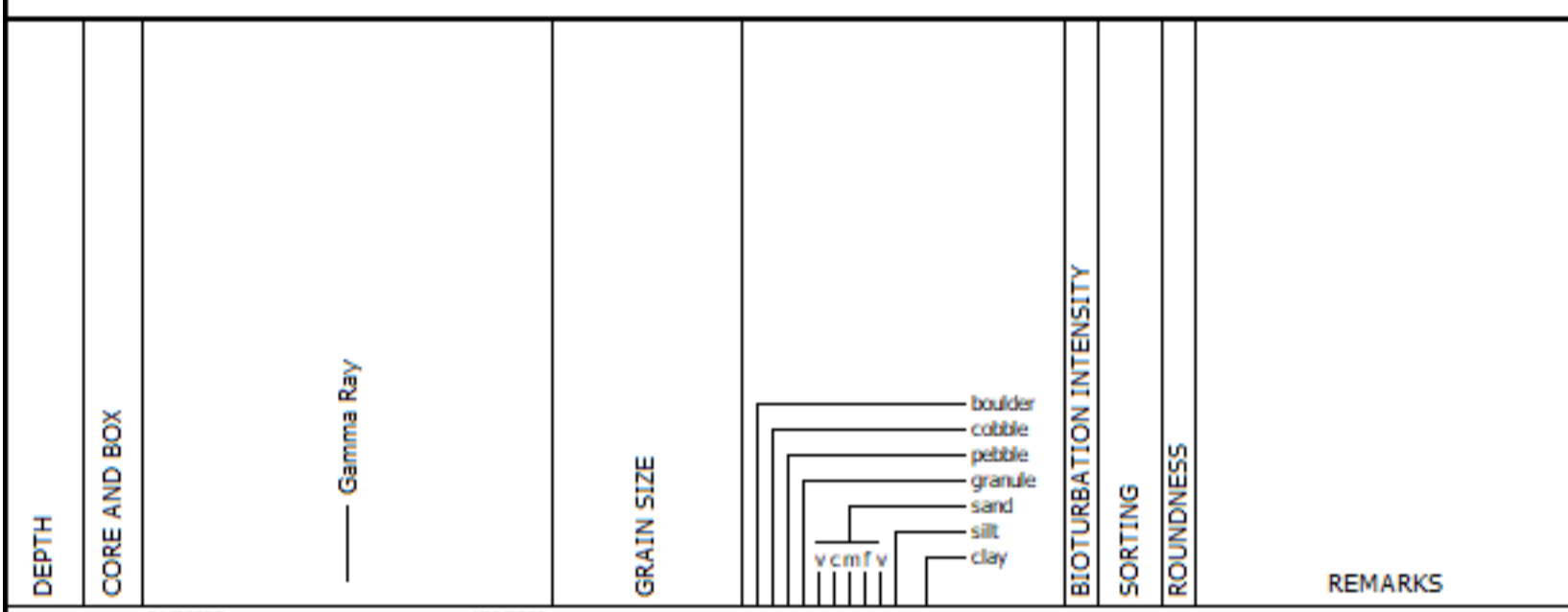
LEGEND

LITHOLOGY			
 Sandstone	 Silty Sandstone	 Muddy Sandstone	 Sandy Siltstone
 Shale	 Sandy Mudstone	 Mudstone	 Organic Shale
 Coal	 Lost Core		

PHYSICAL STRUCTURES			
 Sym.-Ripple Lam.	 High-Angle Tab./Tan. Be	 Gently Inclined Lam.	 Wavy Bed./Lam
 Hummocky Cross-strat.	 Parallel Bed./Lam.	 Combined Flow Ripple	

LITHOLOGIC ACCESSORIES			
 Silt Lamina	 Shale Lamina	 Coal Lamina	Sid - Siderite
 Rip Up Clasts	 Organic Frags.		




























ICHTNOFOSSILS			
 Rootlets	 Planolites	 Macaronichnus	 Schaubcylichnus frey
 Phycosiphon			

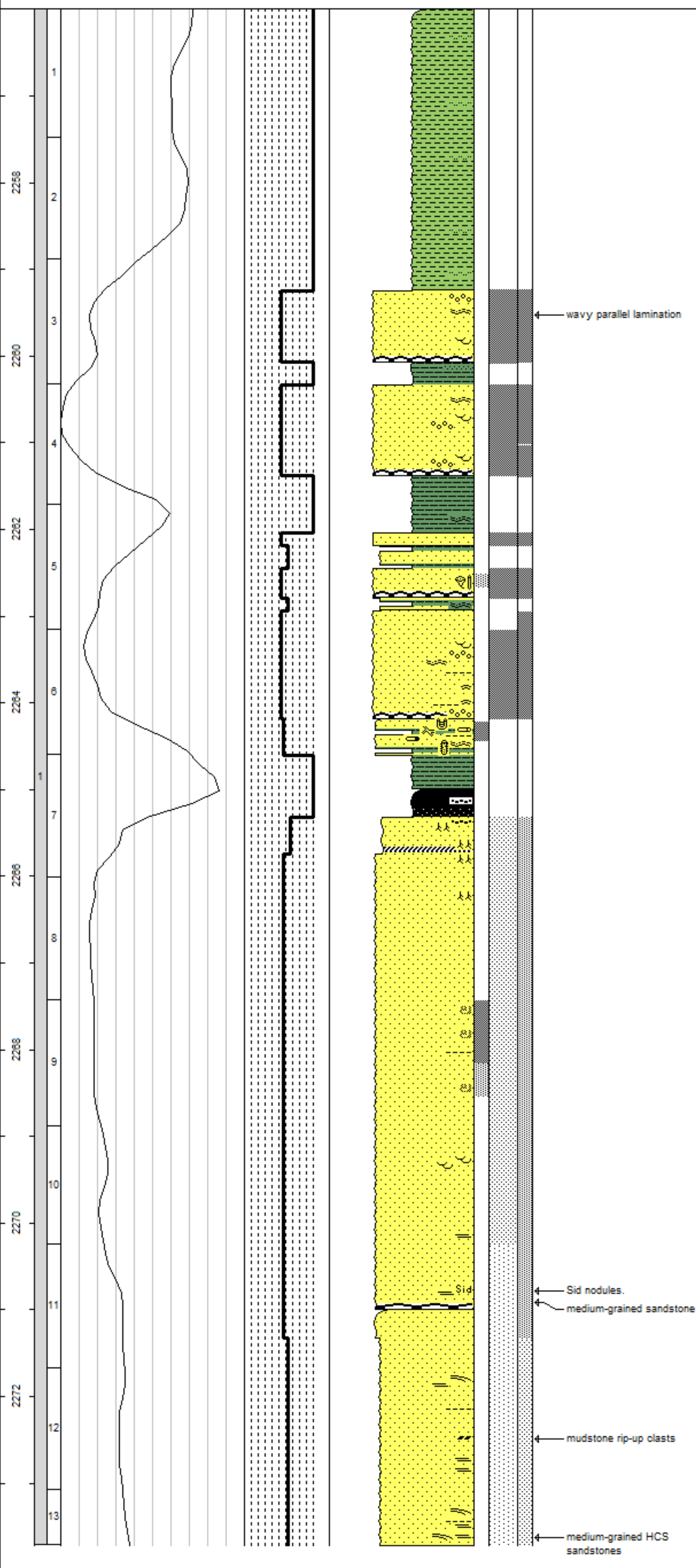
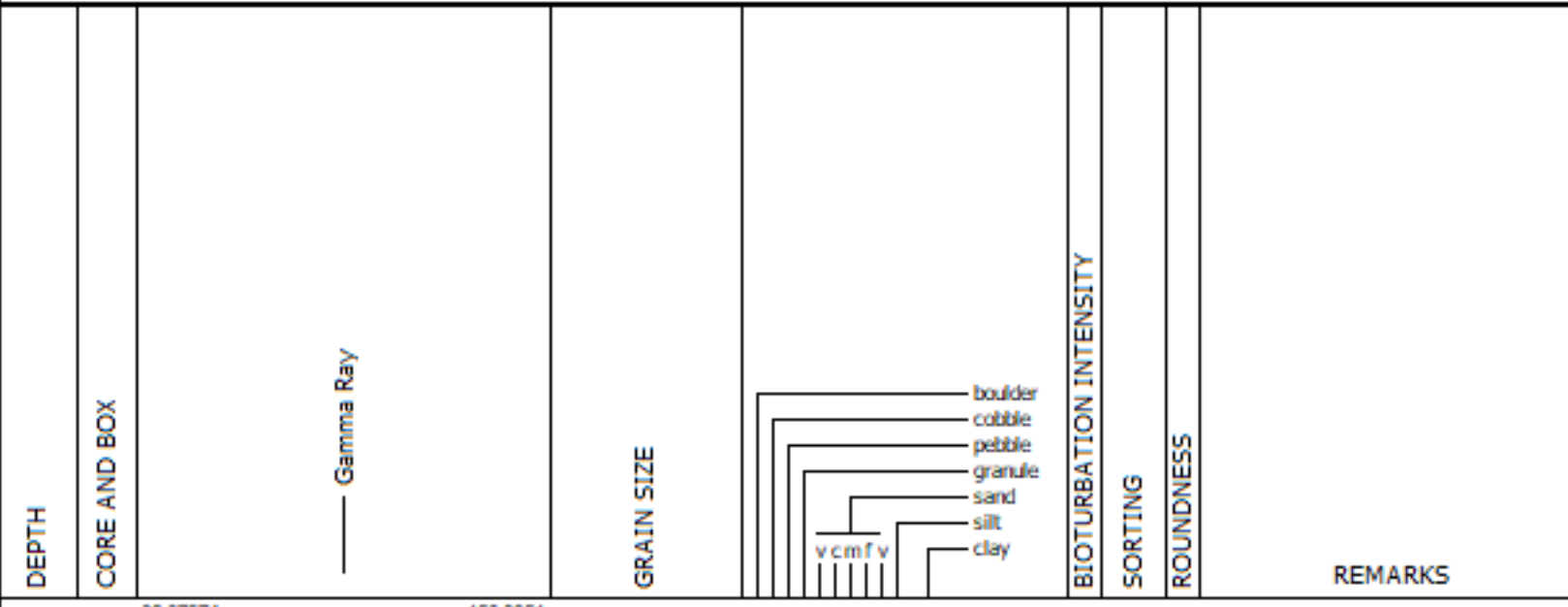


06-22-030-3W5

Date Logged: June 22, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project.

LEGEND

LITHOLOGY			
 Sandstone	 Silty Sandstone	 Shale	 Mudstone
 Coal	 Org. Sandstone	 Lost Core	
PHYSICAL STRUCTURES			
 Trough Cross-strat.	 Wavy Bed./Lam	 Hummocky Cross-strat.	 Mud Drapes (Dbl.)
 Parallel Bed./Lam.			
LITHOLOGIC ACCESSORIES			
 Sand Lamina	 Silt Lamina	 Shale Lamina	Sid - Siderite
 Rip Up Clasts	 Organic Frags.	 Dispersed Pebbles/Granu	
ICHTNOFOSSILS			
 Rootlets	 Skolithos	 Planolites	 Palaeophycus
 Diplocraterion	 Macaronichnus	 Ophiomorpha	 Rosselia
 Thalassinoides			



06-31-030-02W5

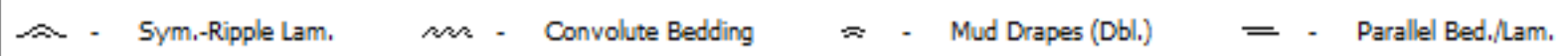
Date Logged: June 1, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

LEGEND

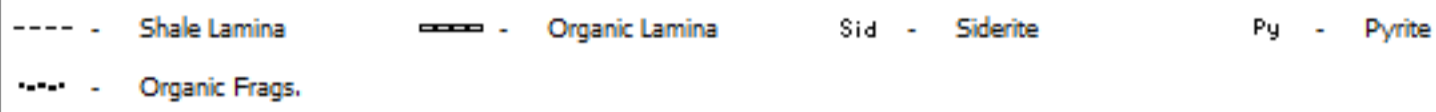
LITHOLOGY



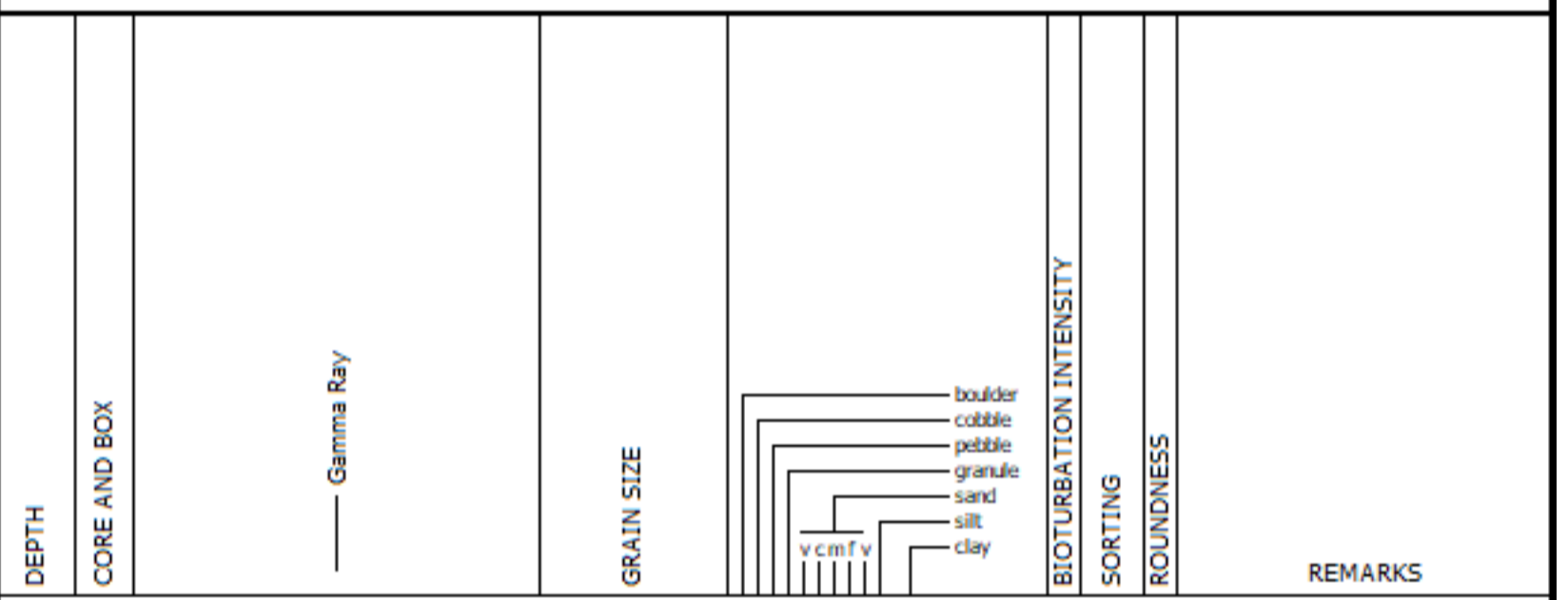
PHYSICAL STRUCTURES



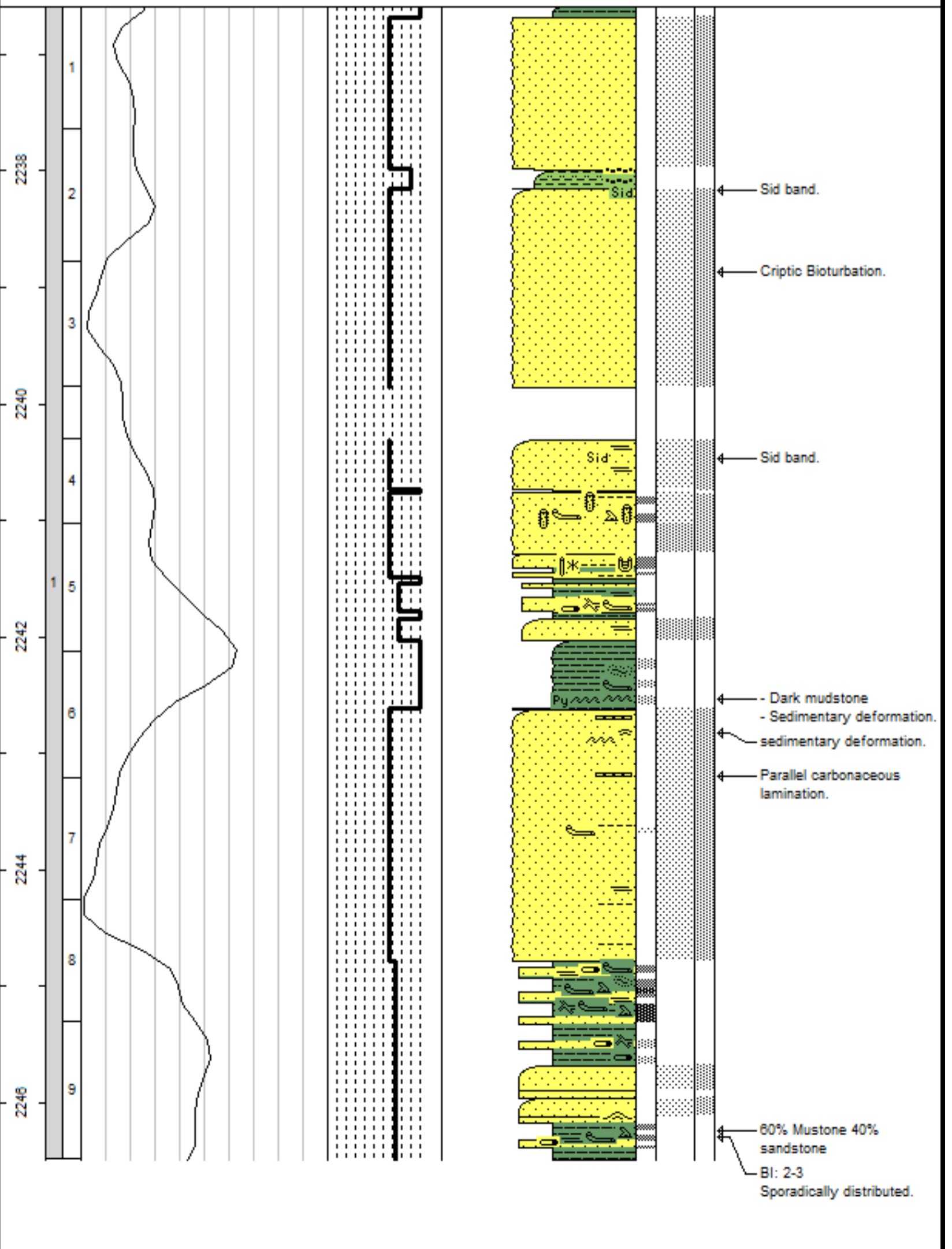
LITHOLOGIC ACCESSORIES



ICHTNOFOSSILS



40.65063 ————— 152.5408

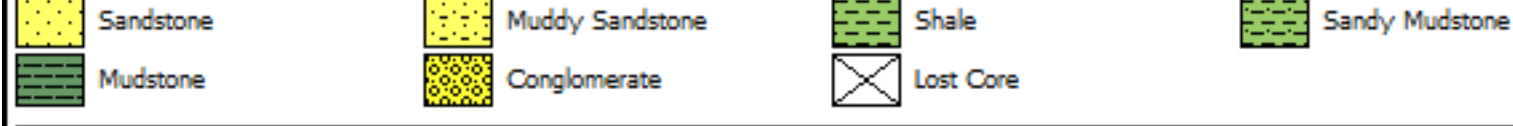


06-36-030-02W5

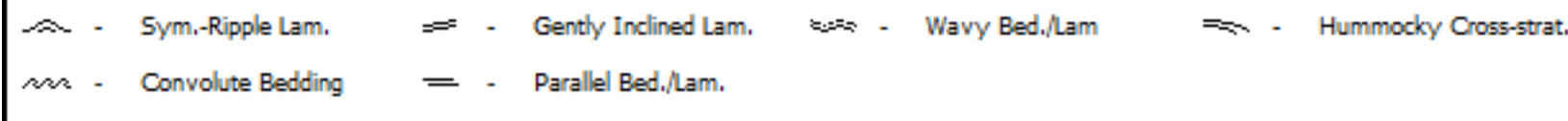
Date Logged: June 13, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

LEGEND

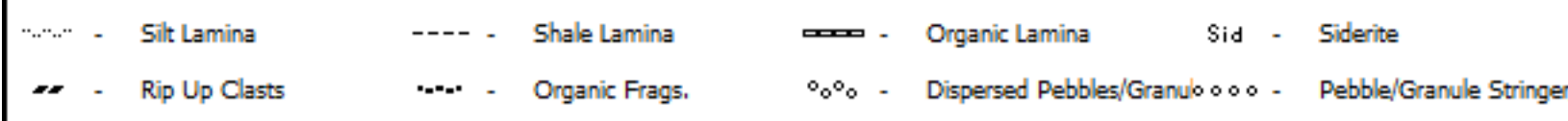
LITHOLOGY



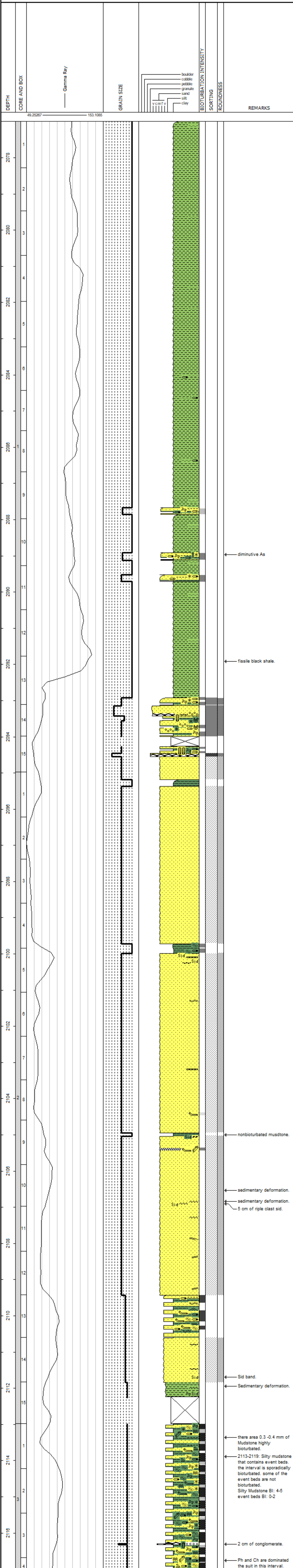
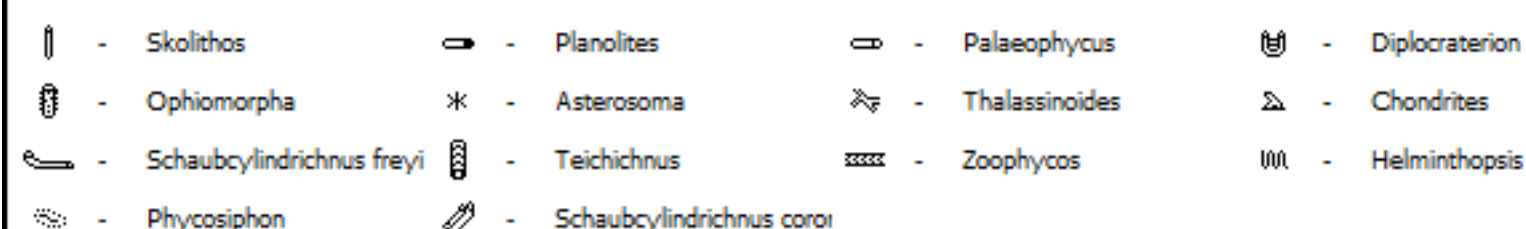
PHYSICAL STRUCTURES



LITHOLOGIC ACCESSORIES



ICHTHOFOSSILS



06-36-030-3W5

Date Logged: June 23, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

LEGEND

LITHOLOGY

Sandstone	Shale	Sandy Mudstone	Mudstone
Coal	Org. Sandstone	Lost Core	

PHYSICAL STRUCTURES

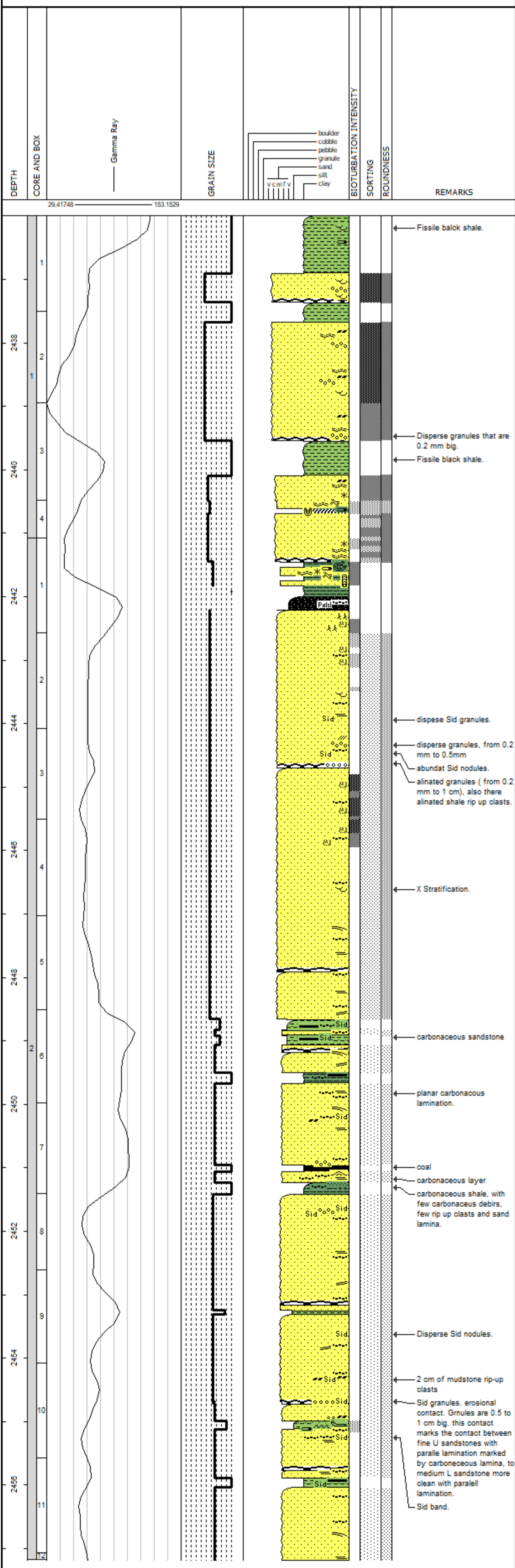
Trough Cross-strat.	Sym.-Ripple Lam.	High-Angle Tab./Tan. Be	Gently Inclined Lam.
Wavy Bed./Lam	Hummocky Cross-strat.	Convolute Bedding	Parallel Bed./Lam.

LITHOLOGIC ACCESSORIES

Sand Lamina	Shale Lamina	Peb/Gran/Crs Grns	Coal Lamina
Siderite	Rip Up Clasts	Organic Frags.	Paleosol Horizon
Dispersed Pebbles/Granules	Pebble/Granule Stringer/l		

ICHTHOFOSSILS








Rootlets	Planolites	Diplocraterion	Macaronichnus
Rhizocorallium	Asterosoma	Thalassinoides	Schaubcylichnus frey
Teichichnus			















07-28-031-04W5









Date Logged: July 6, 2017
 Logged by: Nakari Diaz
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project
 Core1:7808-7812
 Core2:7814-7864









LEGEND

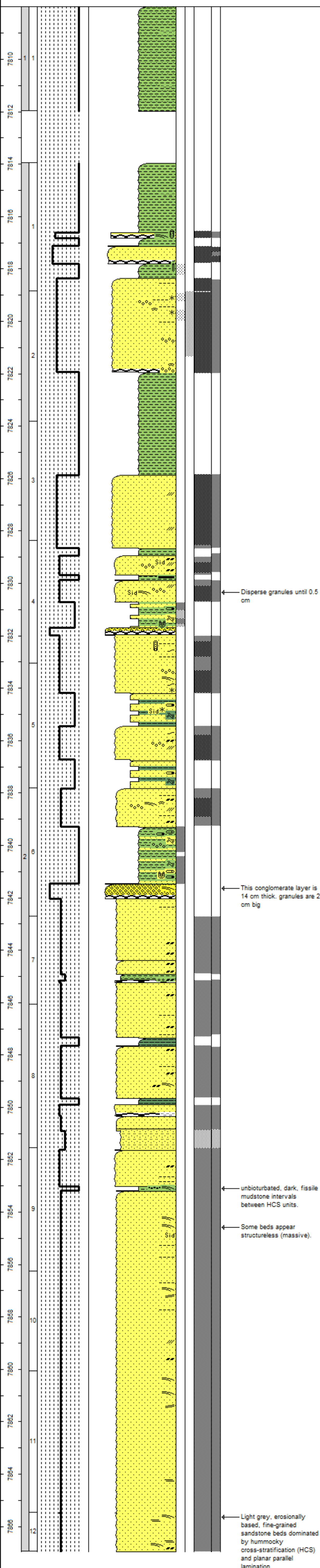
LITHOLOGY		
 Sandstone	 Silty Sandstone	 Shale
 Sandy Mudstone	 Mudstone	 Conglomerate
 Lost Core		

PHYSICAL STRUCTURES		
 - High-Angle Tab./Tan. Bed	 - Gently Inclined Lam.	 - Hummocky Cross-strat.
 - Mud Drapes (Dbl.)	 - Parallel Bed./Lam.	 - Mud/H. min. drapes

LITHOLOGIC ACCESSORIES		
 - Silt Lamina	 - Shale Lamina	 - Peb/Gran/Crs Grns
 - Coal Lamina	Sid - Siderite	 - Rip Up Clasts
 - Organic Frags.	°°° - Dispersed Pebbles/Granul	

ICHTNOFOSSILS		
 - Skolithos	 - Planolites	 - Palaeophycus
 - Diplocraterion	 - Ophiomorpha	 - Asterosoma
 - Thalassinoides	 - Teichichnus	

DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	STAIN	SORTING	ROUNDNESS	REMARKS
		 boulder  cobble  pebble  granule  sand  silt  clay  vcmfv					



PCP Crossfield
08-01-27-28w4

Date Logged: June 21, 2012

Logged by: James MacEachern

Remarks: 3 inch unslabbed core. Good quality, excellent recovery.

LEGEND

LITHOLOGY		
	Sandstone	
	Sandy Siltstone	
	Lost Core	

CONTACTS	
	Sharp
	Erosional

PHYSICAL STRUCTURES		
	Trough Cross-strat.	
	Gently Inclined Lam.	
	Parallel Bed./Lam.	
	High-Angle Tab./Tan. Beds	
	Combined Flow Ripple	

LITHOLOGIC ACCESSORIES		
	Sand Lamina	
	Glauconitic	
	Organic Frags.	

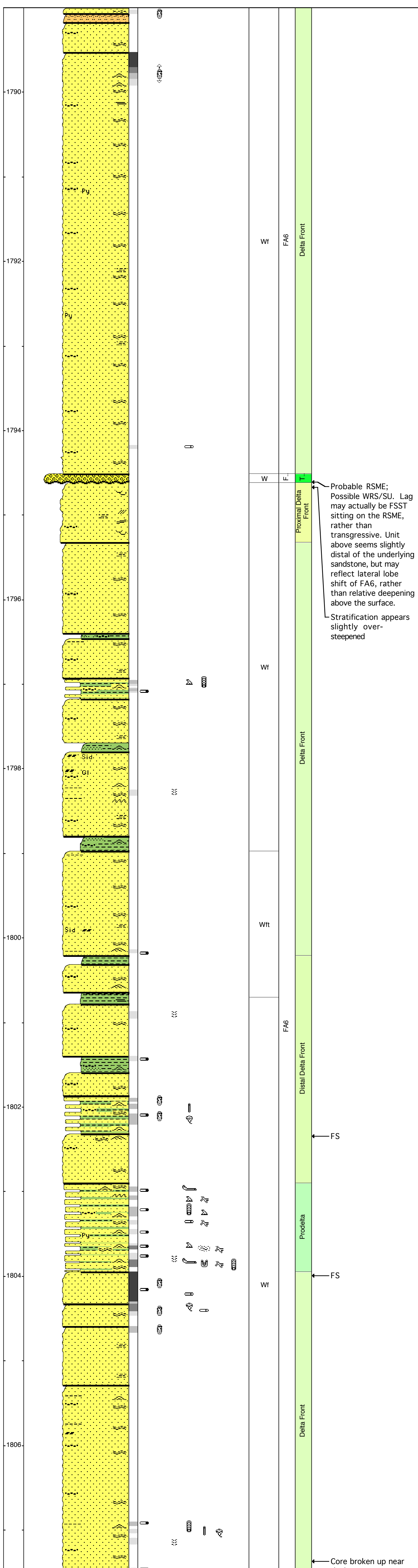
ICHOFOSSILS		
	Skolithos	
	Diplocraterion	
	Rosselia	
	Schaubcylindrichnus freyi	

FACIES		
W	Wft	Wf

FACIES ASSOCIATION	
FA3	FA6

DEPOSITIONAL ENVIRONMENT		
	Transgressive Lag	
	Proximal Delta Front	
	Prodelta	

METERS	GRAIN SIZE	BIOTURBATION INDEX	ICHOFOSSILS	FACIES	FACIES ASSOCIATION	DEPOSITIONAL ENVIRONMENT	REMARKS
	<ul style="list-style-type: none"> boulder cobble pebble granule sand silt clay 						






Date Logged: May 9, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project. Core taken in 1986.

LEGEND

LITHOLOGY

- | | | |
|---|---|---|
|  Sandstone |  Silty Sandstone |  Shale |
|  Sandy Mudstone |  Mudstone |  Lost Core |






PHYSICAL STRUCTURES

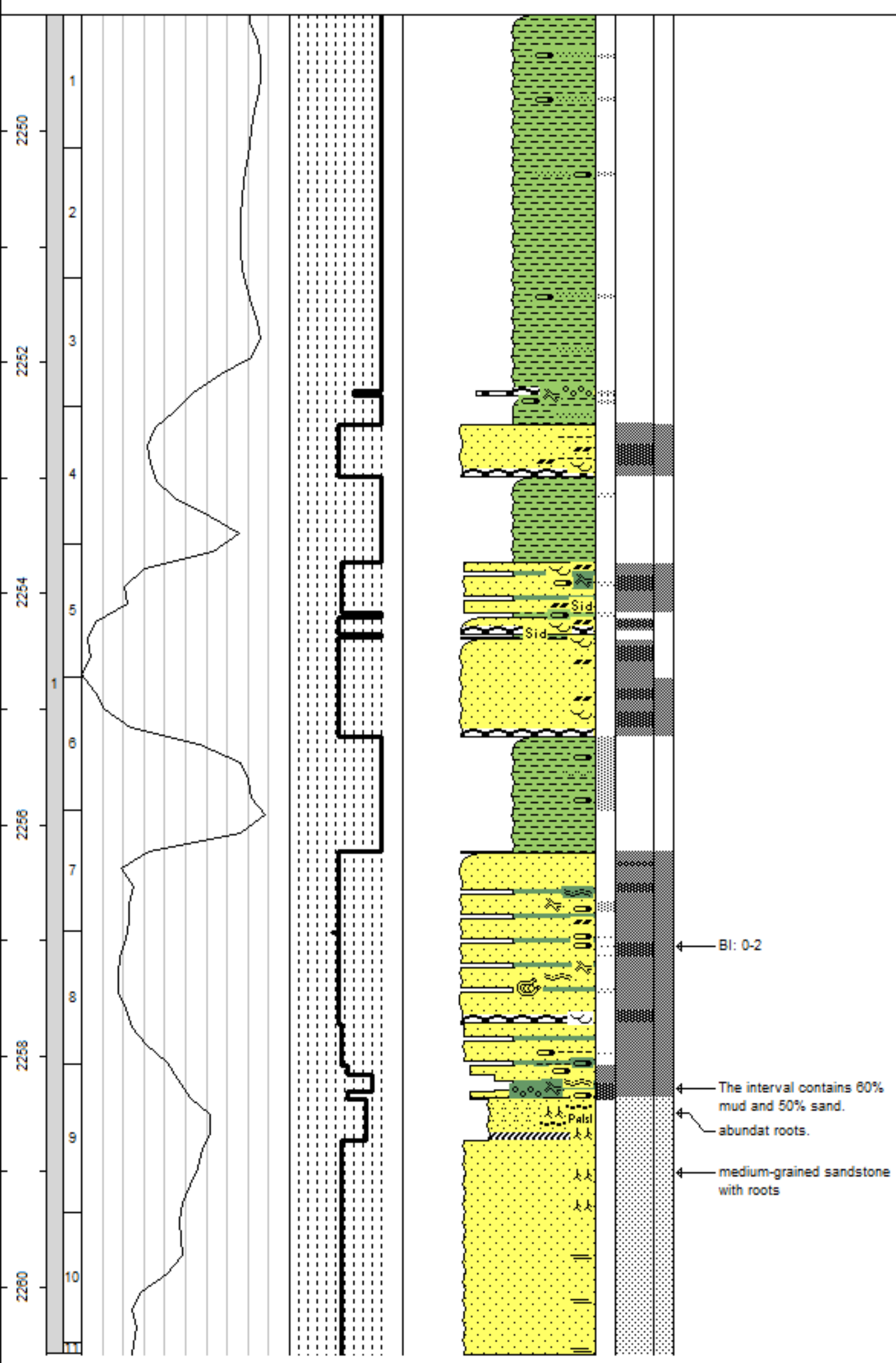
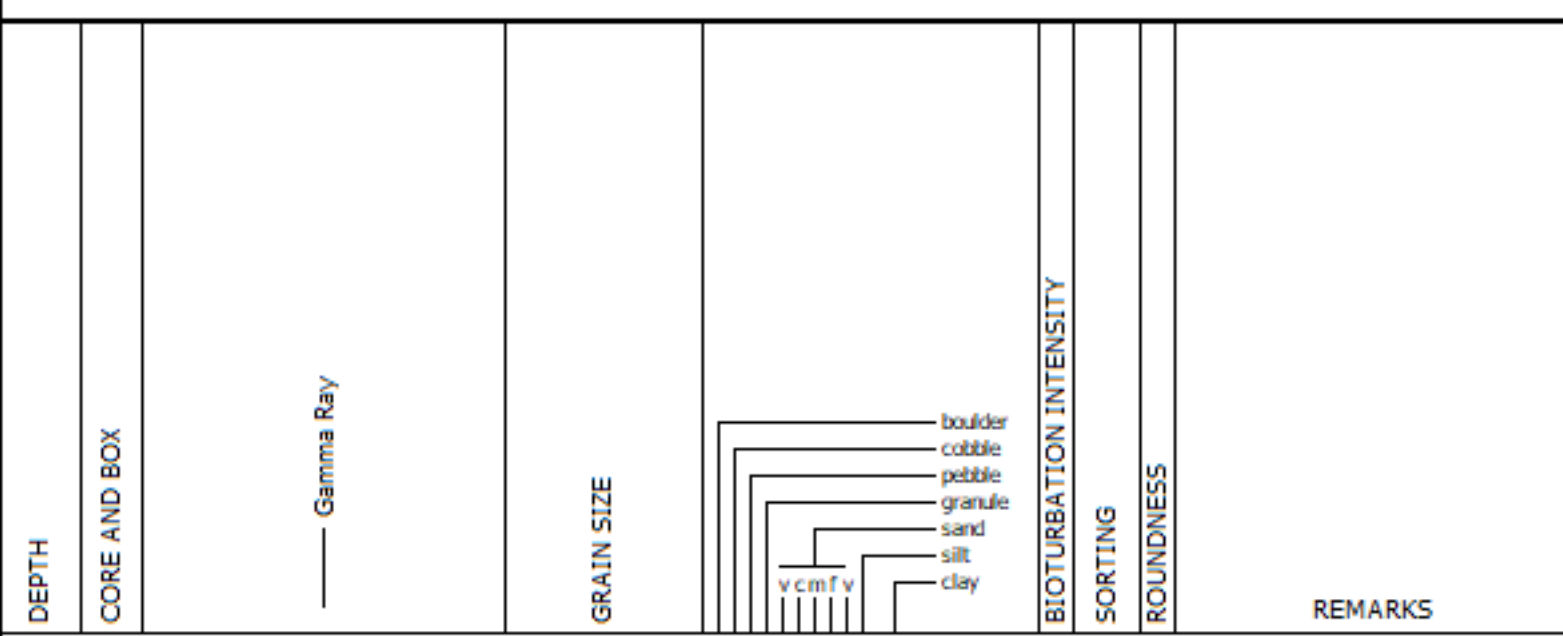
- | | | |
|--|---|--|
|  Trough Cross-strat. |  Wavy Bed./Lam |  Parallel Bed./Lam. |
|--|---|--|

LITHOLOGIC ACCESSORIES

- | | | |
|---|--|--|
|  Sand Lamina |  Silt Lamina |  Shale Lamina |
|  Siderite |  Rip Up Clasts |  Organic Frags. |
|  Paleosol Horizon |  Dispersed Pebbles/Granules | |

ICHTNOFOSSILS

- | | | |
|---|---|--|
|  Rootlets |  Planolites |  Rhizocorallium |
|  Thalassinoides |  Teichichnus | |



PCP PCT Irricana
08-26-27-27w4 00 well

Date Logged: June 21, 2012

Logged by: James MacEachern

Remarks: 4 inch, unslabbed core. Good quality and 100% recovery

LEGEND

LITHOLOGY		
	Sandstone	
	Silty Sandstone	
	Muddy Sandstone	
	Conglomerate	

CONTACTS	
	Sharp
	Erosional

PHYSICAL STRUCTURES		
	Current-Ripple Lam.	
	Gently Inclined Lam.	
	Synaeresis Cracks	
	-Scour & Fill	
	Sym.-Ripple Lam.	

LITHOLOGIC ACCESSORIES		
	Shale Lamina	
	Siderite	
	Rip Up Clasts	

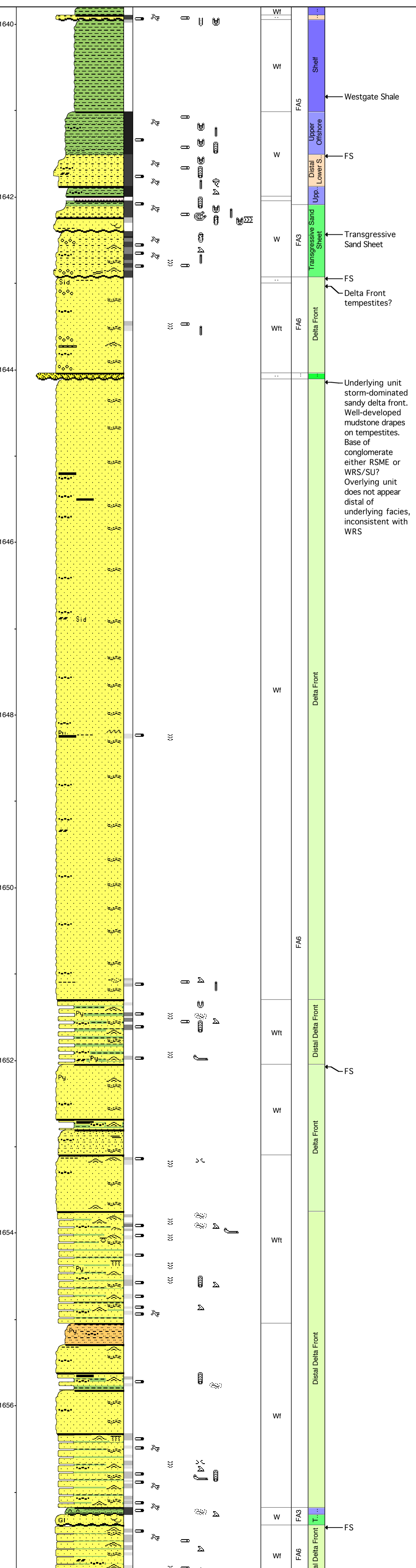
ICHTNOFOSSILS		
	Skolithos	
	Diplocraterion	
	Escape Trace	
	Thalassinoides	
	Teichichnus	
	Taenidium	

FACIES		
Wft	W	Wf

FACIES ASSOCIATION		
FA5	FA3	FA6

DEPOSITIONAL ENVIRONMENT		
	Shelf	
	Distal Lower Shoreface	
	Transgressive Lag	









METERS	GRAIN SIZE boulder cobble pebble granule sand silt clay	BIOTURBATION INDEX vc mfv	ICHTNOFOSSILS	FACIES	FACIES ASSOCIATION	DEPOSITIONAL ENVIRONMENT	REMARKS
--------	--	------------------------------	---------------	--------	--------------------	--------------------------	---------








08-26-029-02W5

Date Logged: July 4, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT


LEGEND

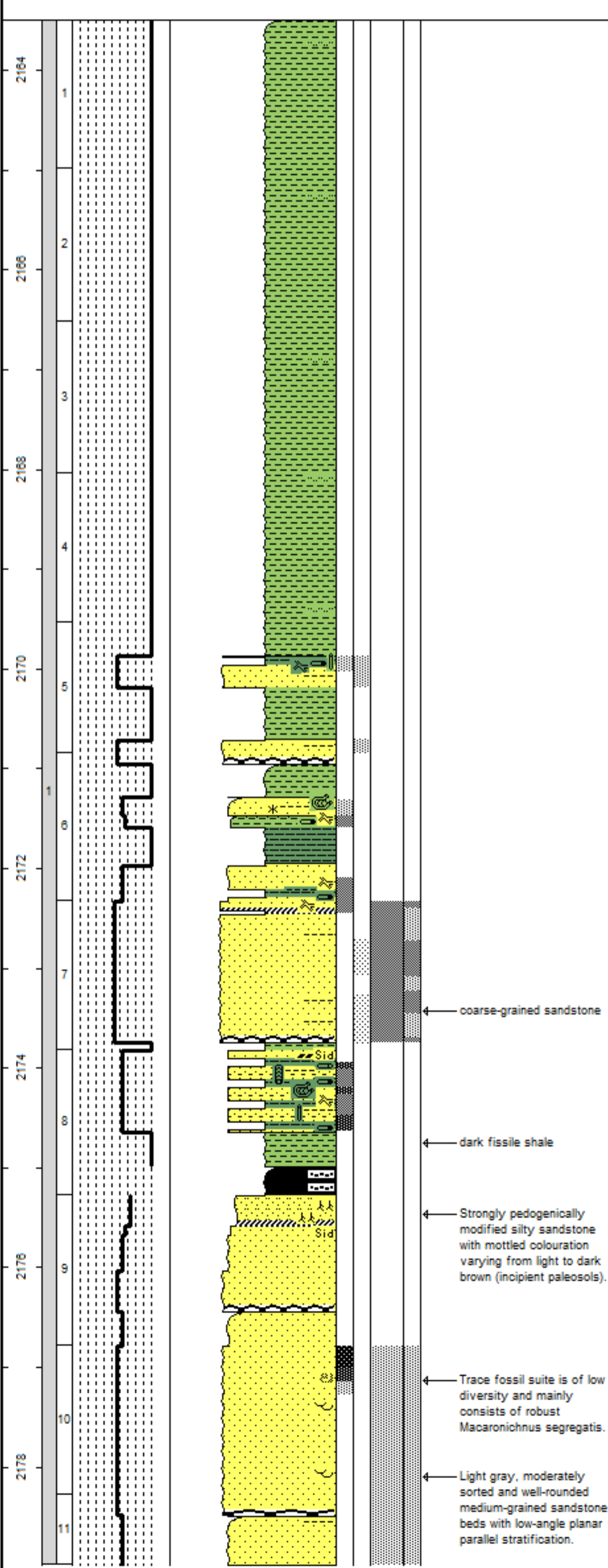
LITHOLOGY		
 Sandstone	 Silty Sandstone	 Muddy Sandstone
 Shale	 Sandy Mudstone	 Mudstone
 Coal	 Lost Core	

PHYSICAL STRUCTURES		
 Trough Cross-strat.		

LITHOLOGIC ACCESSORIES		
 Silt Lamina	 Shale Lamina	Sid - Siderite
 Rip Up Clasts	 Organic Frags.	

ICHTNOFOSSILS		
AA - Rootlets	- Skolithos	—○— - Planolites
∅ - Palaeophycus	⊗ - Macaronichnus	⊗ - Rhizocorallium
* - Asterosoma	⊗ - Thalassinoides	⊗ - Teichichnus

DEPTH	CORE AND BOX	GRAIN SIZE	LITHOLOGY	BIOTURBATION INTENSITY	STAIN	SORTING	ROUNDNESS	REMARKS
								



09-06-030-04W5






Date Logged: July 19, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks:

LEGEND








LITHOLOGY

- | | | | |
|--|---|---|--|
|  Sandstone |  Silty Sandstone |  Siltstone |  Sandy Mudstone |
|  Mudstone |  Lost Core | | |

PHYSICAL STRUCTURES

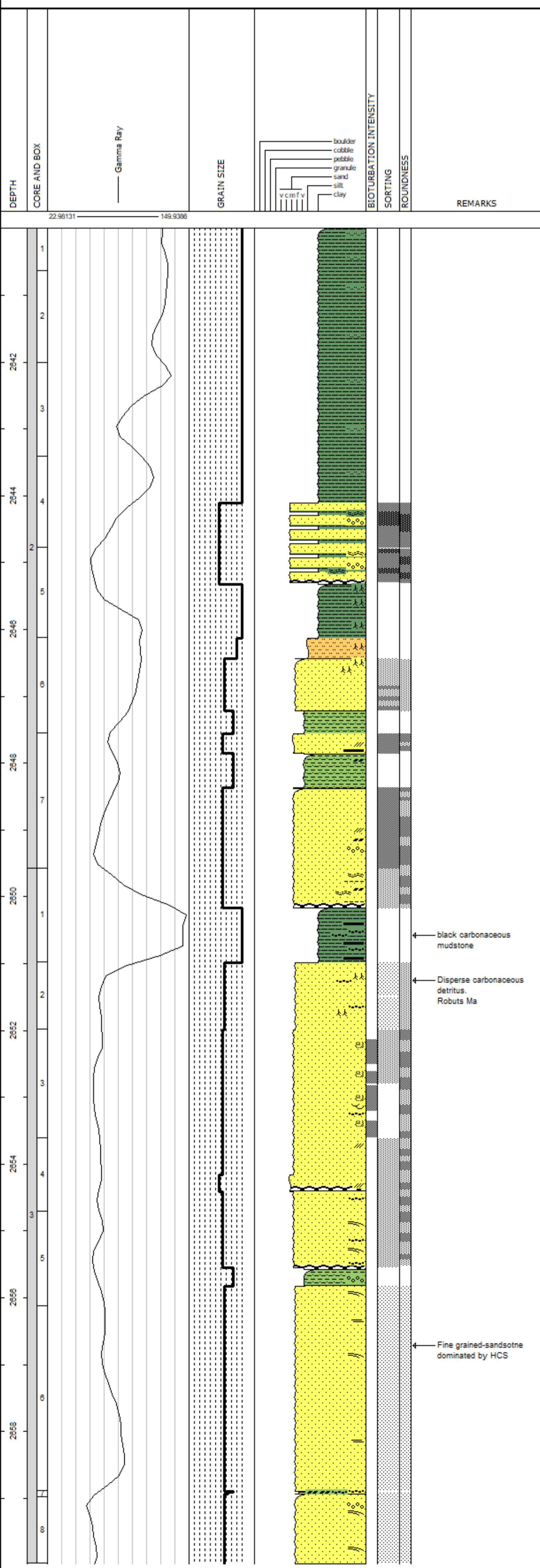
- | | | | |
|--|---|---|---|
|  Trough Cross-strat. |  High-Angle Tab./Tan. Be |  Wavy Bed./Lam |  Hummocky Cross-strat. |
|  Parallel Bed./Lam. | | | |

LITHOLOGIC ACCESSORIES

- | | | | |
|---|--|---|---|
|  Silt Lamina |  Shale Lamina |  Coal Lamina |  Rip Up Clasts |
|  Organic Frags. |  Dispersed Pebbles/Granules |  Pebble/Granule Stringer/L | |

ICHTNOFOSSILS

- | | |
|---|---|
|  Rootlets |  Macaronichnus |
|---|---|



Date Logged: June 27, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield project.

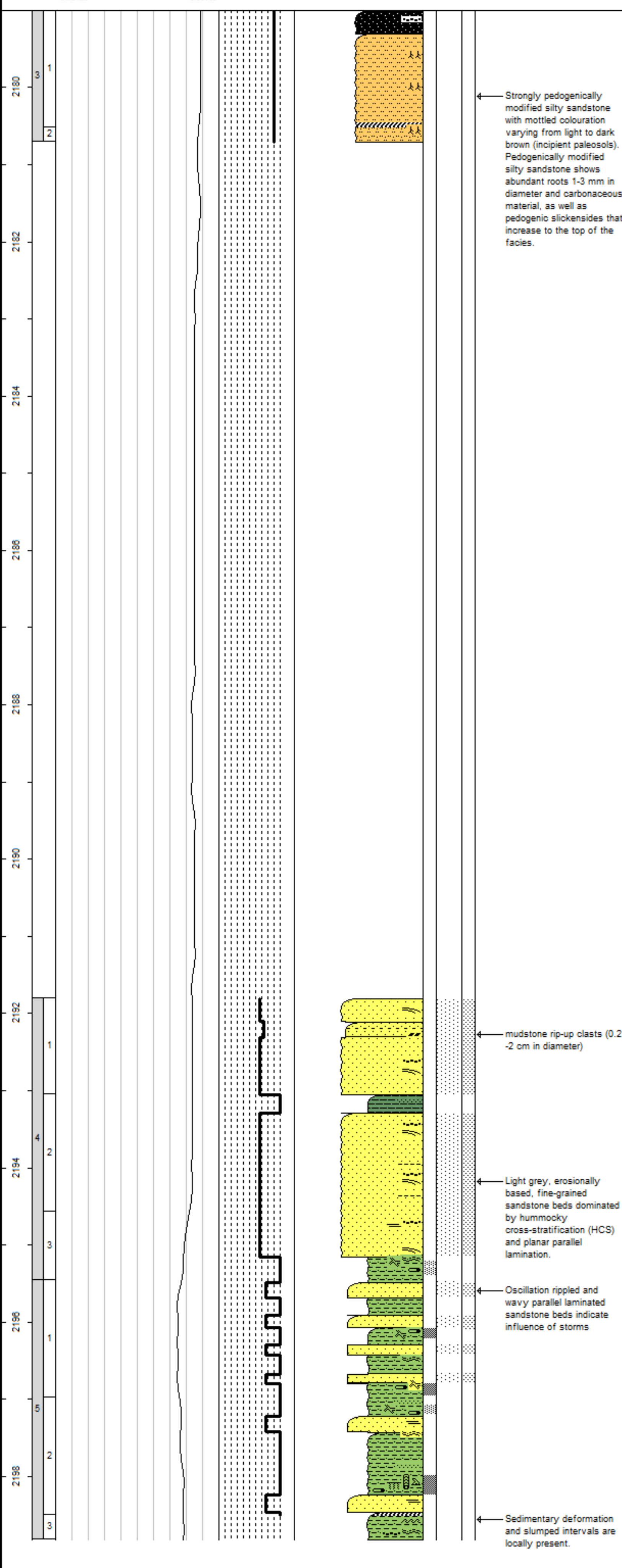
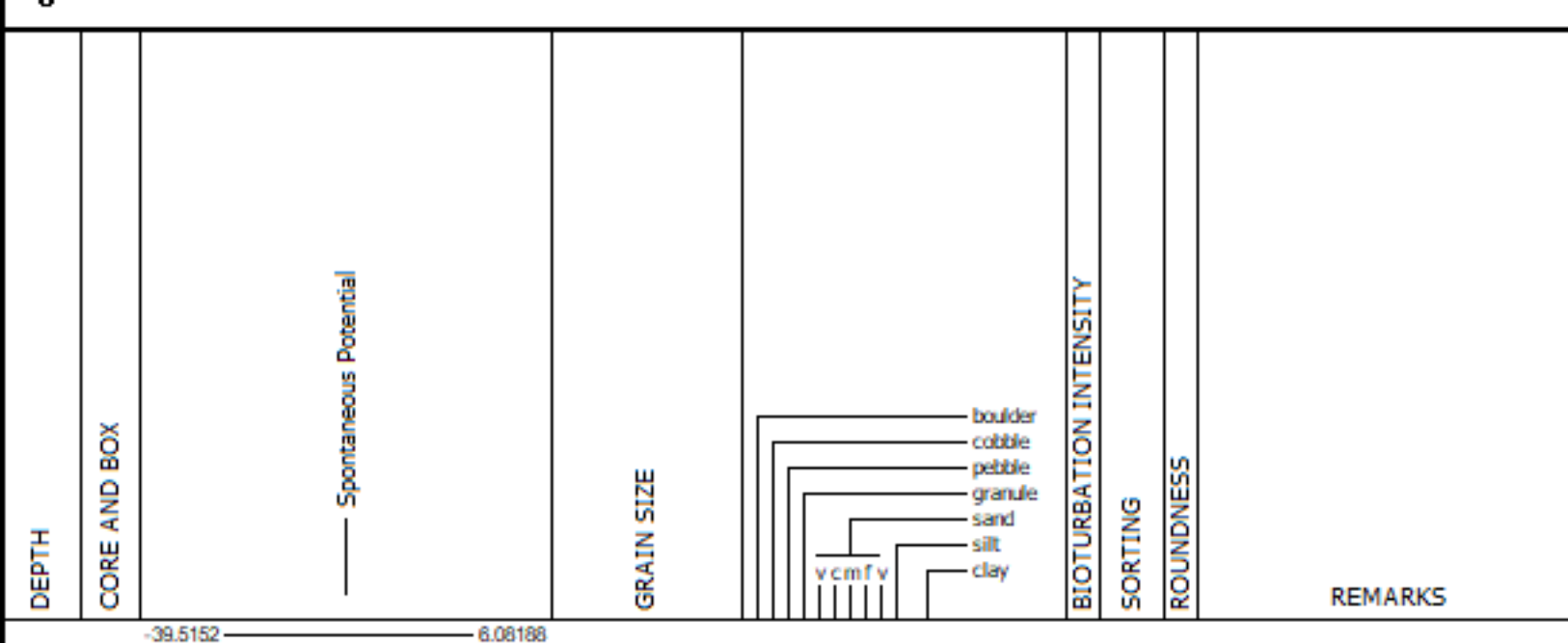
LEGEND

LITHOLOGY			
	Sandstone		Silty Sandstone
	Sandy Siltstone		Muddy Sandstone
	Lost Core		Sandy Mudstone
			Mudstone
			Siltstone
			Org. Sandstone

PHYSICAL STRUCTURES			
	Wavy Bed./Lam		Hummocky Cross-strat.
	Parallel Bed./Lam.		Convolute Bedding
			Synaeresis Cracks

LITHOLOGIC ACCESSORIES			
	Sand Lamina		Shale Lamina
			Rip Up Clasts
			Organic Frags.








ICHTNOFOSSILS			
	Rootlets		Planolites
	Teichichnus		Thalassinoides
			Chondrites














09-15-025-26W4


















Date Logged: July 12, 2017
 Logged by: Nakari Diaz
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

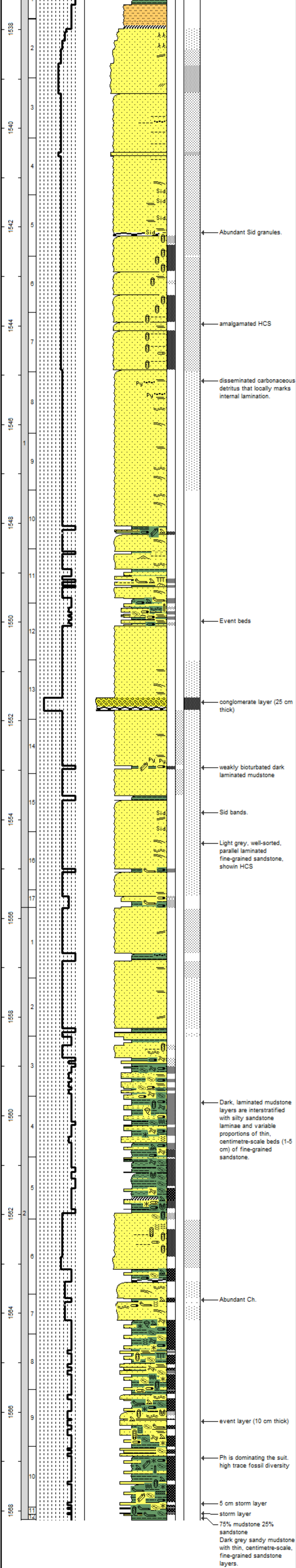
LEGEND

LITHOLOGY		
 Sandstone	 Silty Sandstone	 Siltstone
 Sandy Siltstone	 Mudstone	 Conglomerate
 Lost Core		

PHYSICAL STRUCTURES		
 Current-Ripple Lam.	 Sym.-Ripple Lam.	 High-Angle Tab./Tan. B
 Gently Inclined Lam.	 Wavy Bed./Lam	 Hummocky Cross-strat.
 Synaeresis Cracks	 Parallel Bed./Lam.	

LITHOLOGIC ACCESSORIES		
 Silt Lamina	 Shale Lamina	Sid - Siderite
Py - Pyrite	 Organic Frags.	



















ICHTHOFOSSILS		
 Rootlets	 Skolithos	 Planolites
 Palaeophycus	 Diplocraterion	 Ophiomorpha
 Escape Trace	 Astrosoma	 Rosselia
 Thalassinoides	 Chondrites	 Schaubcylindrichnus fre
 Teichichnus	 Zoophycos	 Helminthopsis
 Phycosiphon	 Schaubcylindrichnus coro	

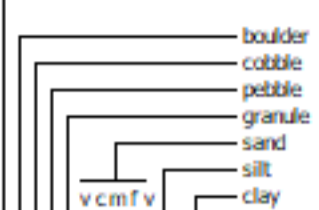


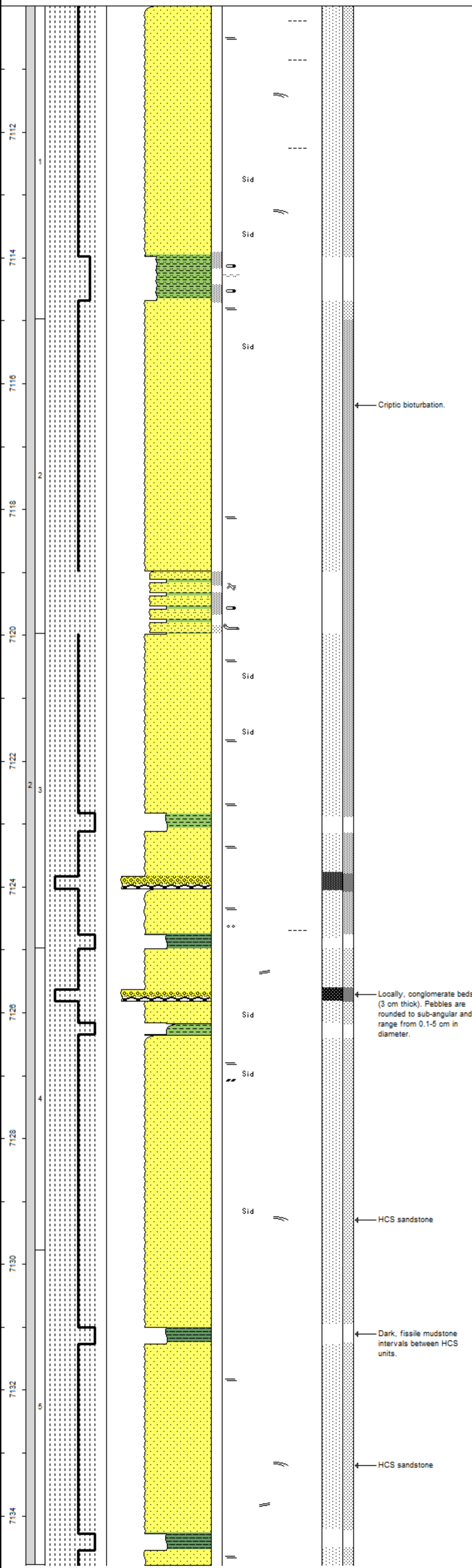
10-09-031-02W5

Date Logged: June 29, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfiels Project

LEGEND

LITHOLOGY		
 Sandstone	 Silty Sandstone	 Shale
 Silty Mudstone	 Mudstone	 Conglomerate
 Lost Core		
PHYSICAL STRUCTURES		
 Gently Inclined Lam.	 Hummocky Cross-strat.	 Parallel Bed./Lam.
LITHOLOGIC ACCESSORIES		
 Silt Lamina	 Shale Lamina	 Peb/Gran/Crs Grns
 Siderite	 Rip Up Clasts	
ICHTNOFOSSILS		
 Planolites	 Thalassinoides	 Schaubcylindrichnus freyi

DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	SORTING	ROUNDNESS	REMARKS
			 <ul style="list-style-type: none"> ○ boulder ○ cobble ○ pebble ○ granule ○ sand ○ silt ○ clay 						








Date Logged: June 27, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

LEGEND









LITHOLOGY

 Sandstone	 Silty Sandstone	 Muddy Sandstone
 Siltstone	 Sandy Siltstone	 Muddy Siltstone
 Shale	 Silty Mudstone	 Sandy Mudstone
 Mudstone	 Coal	 Lost Core








PHYSICAL STRUCTURES

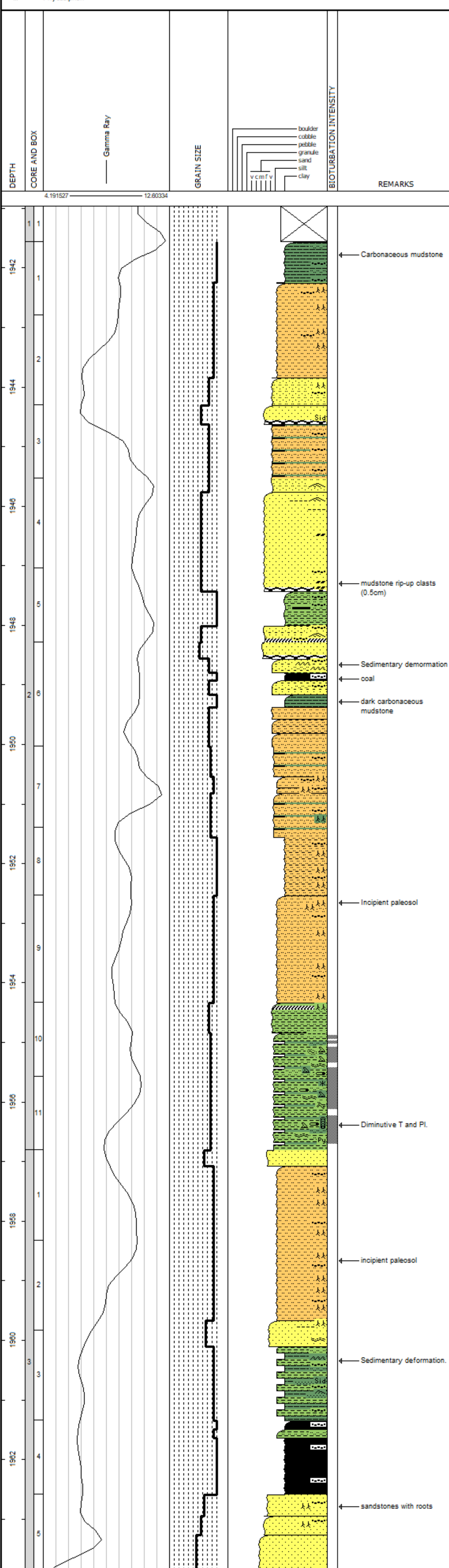
 - Current-Ripple Lam.	 - Gently Inclined Lam.	 - Wavy Bed./Lam
 - Convolute Bedding	 - Combined Flow Ripple	

LITHOLOGIC ACCESSORIES

 - Sand Lamina	 - Silt Lamina	 - Shale Lamina
 - Coal Lamina	 Sid - Siderite	 Py - Pyrite
 - Rip Up Clasts	 - Organic Frags.	

ICHTNOFOSSILS

 - Rootlets	 - Planolites	 - Astrosoma
 - Thalassinoides	 - Chondrites	 - Teichichnus
 - Phycosiphon		



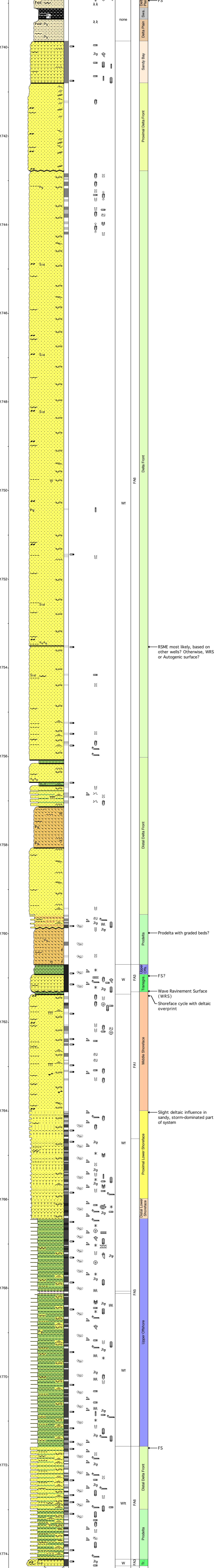
ECA Entice 10-17
10-17-27-27w4 100 well

Date Logged: June 18, 2012
 Logged by: James MacEachern
 Ground: 0.00 m KB: 0.00 m
 Remarks: 3 inch, slabbed core. Excellent quality and recovery.

LEGEND

LITHOLOGY		
CONTACTS		
PHYSICAL STRUCTURES		
LITHOLOGICAL ACCESSORIES		
ICHOFOSSILS		
FACIES		
none	Wft	W
FACIES ASSOCIATION		
FA1	FA6	FA3
FA5		
DEPOSITIONAL ENVIRONMENT		

METERS	GRAIN SIZE	BIOTURBATION INDEX	ICHOFOSSILS	FACIES	FACIES ASSOCIATION	DEPOSITIONAL ENVIRONMENT	REMARKS
	boulder cobble pebble granule sand silt clay						



Date Logged: June 2, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: CROSSFIELD PROJECT

LEGEND

LITHOLOGY

	Sandstone		Silty Sandstone		Siltstone
	Shale		Sandy Mudstone		Mudstone
	Conglomerate		Org. Sandstone		Lost Core

PHYSICAL STRUCTURES

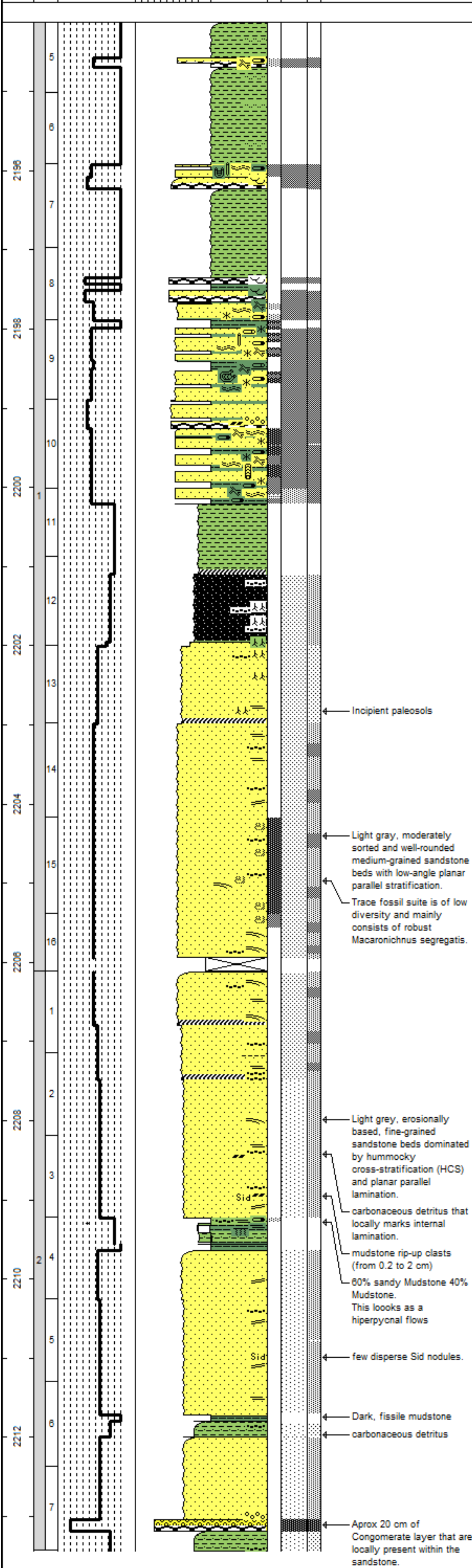
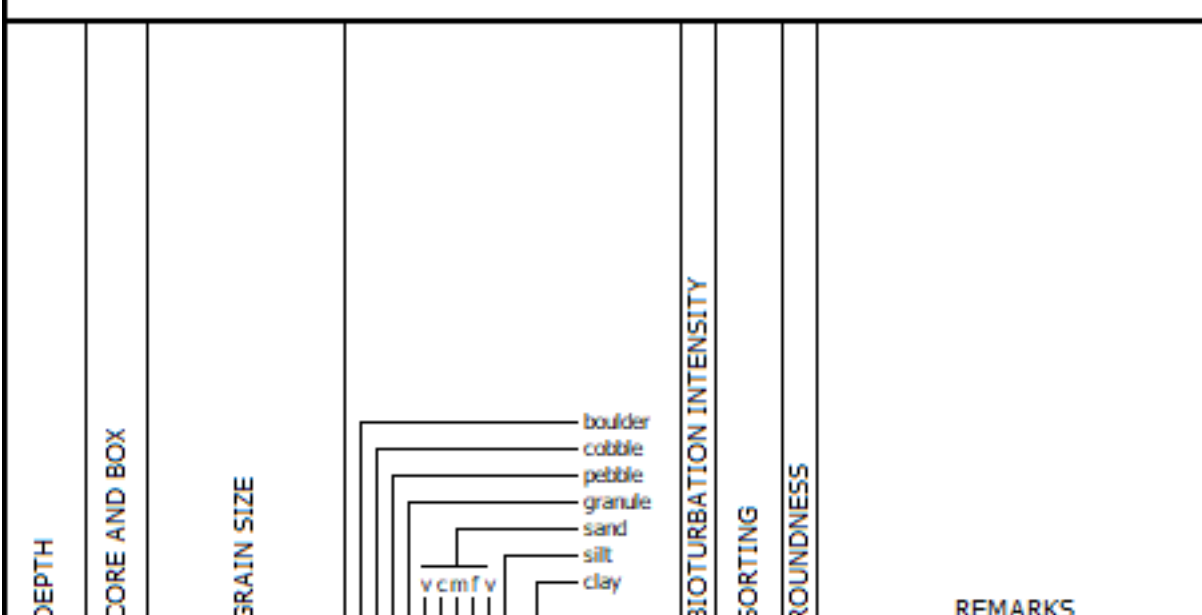
	Trough Cross-strat.		Gently Inclined Lam.		Wavy Bed./Lam
	Hummocky Cross-strat.		Synaeresis Cracks		Parallel Bed./Lam.

LITHOLOGIC ACCESSORIES

	Silt Lamina		Shale Lamina		Sid - Siderite
	Rip Up Clasts		Organic Frags.		Dispersed Pebbles/Grav.

ICHTNOFOSSILS

	Rootlets		Skolithos		Planolites
	Palaeophycus		Diplocraterion		Macaronichnus
	Rhizocorallium		Asterosoma		Thalassinoides
	Teichichnus				








11-16-031-04W5




Date Logged: July 21, 2017
 Logged by: Nakari Diaz
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

LEGEND








LITHOLOGY

 Sandstone	 Shale	 Mudstone
 Conglomerate	 Lost Core	







PHYSICAL STRUCTURES

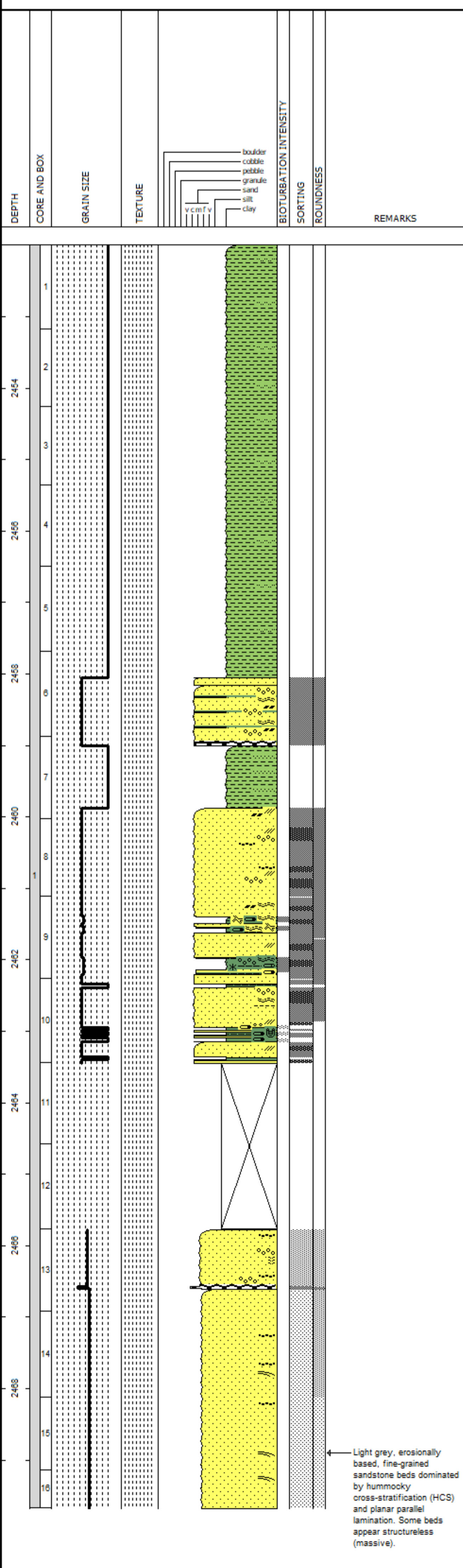
 High-Angle Tab./Tan. Beds	 Wavy Bed./Lam	 Hummocky Cross-strat.
---	---	---

LITHOLOGIC ACCESSORIES

 Sand Lamina	 Silt Lamina	 Shale Lamina
 Peb/Gran/Crs Grns	 Rip Up Clasts	 Organic Frags.
 Dispersed Pebbles/Granules		

ICHTNOFOSSILS

 Planolites	 Palaeophycus	 Diplocraterion
 Escape Trace	 Astrosoma	 Thalassinoides



Date Logged: July 19, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project
 Each box: 1.52

LEGEND

LITHOLOGY

- | | | | |
|----------------|-----------------|-----------------|-----------|
| Sandstone | Silty Sandstone | Muddy Sandstone | Shale |
| Sandy Mudstone | Mudstone | Conglomerate | Lost Core |

PHYSICAL STRUCTURES

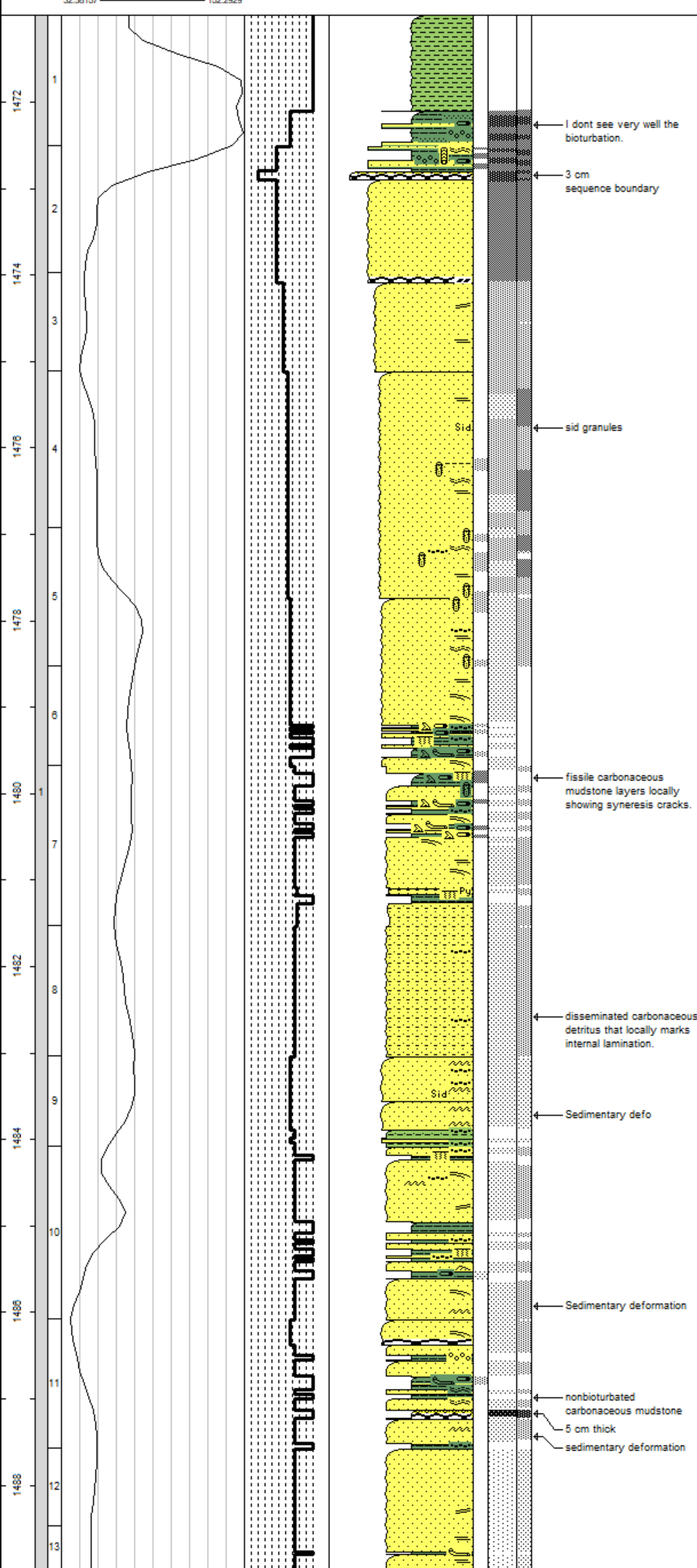
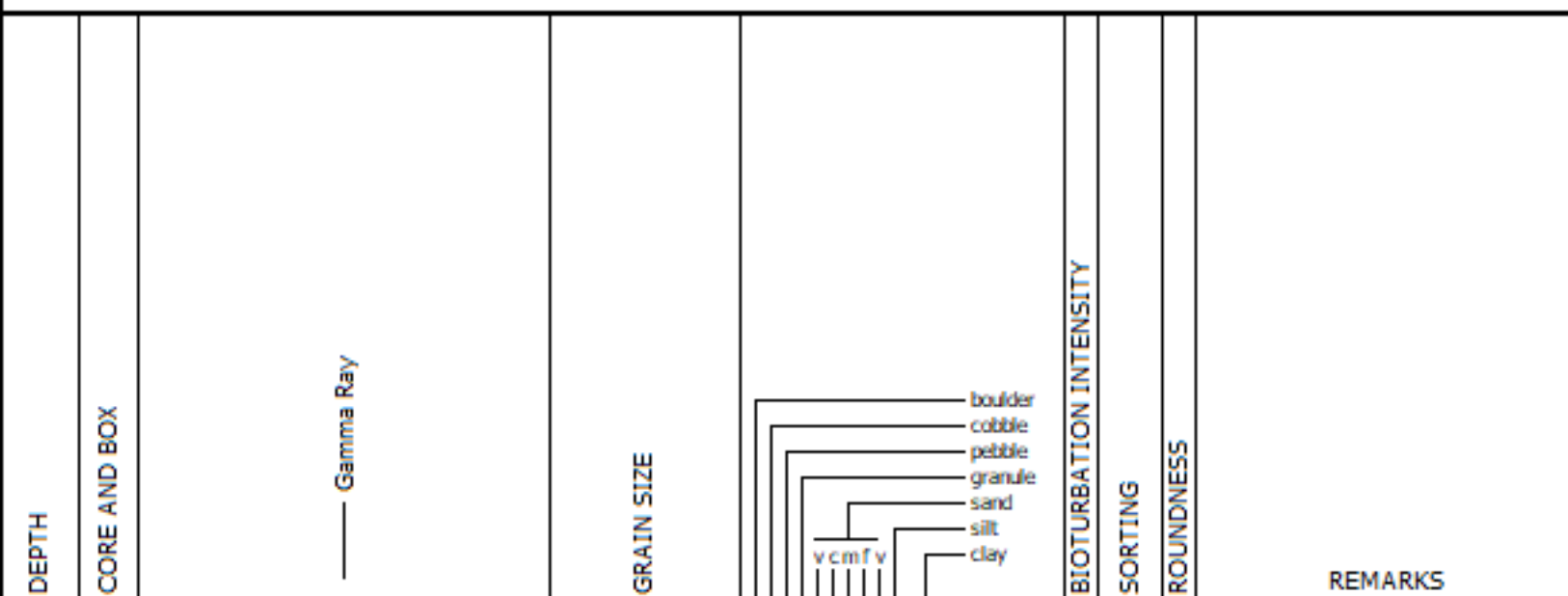
- | | | | |
|-----------------------|------------------------|----------------------|-------------------------|
| - Current-Ripple Lam. | - Gently Inclined Lam. | - Wavy Bed./Lam | - Hummocky Cross-strat. |
| - Convolute Bedding | - Synaeresis Cracks | - Parallel Bed./Lam. | |

LITHOLOGIC ACCESSORIES

- | | | | |
|-----------------|------------------|----------------------------|----------|
| - Sand Lamina | - Shale Lamina | - Siderite | - Pyrite |
| - Rip Up Clasts | - Organic Frags. | - Dispersed Pebbles/Granul | |

ICHTNOFOSSILS

- | | | | |
|-----------------------------|----------------|---------------|--------------|
| - Planolites | - Palaeophycus | - Ophiomorpha | - Chondrites |
| - Schaubcylindrichnus freyi | - Teichichnus | | |



Date Logged: June 20, 2017

Logged by: NAKARI DIAZ

Ground: 0.00 m KB: 0.00 m

Remarks: Crossfield Project. This core doesn't have GR log.

LEGEND

LITHOLOGY

- [Yellow box] Sandstone
- [Yellow dotted box] Silty Sandstone
- [Green box] Shale
- [Green dotted box] Silty Mudstone
- [Green wavy box] Sandy Mudstone
- [Green horizontal lines box] Mudstone
- [White box with X] Lost Core

PHYSICAL STRUCTURES

- [Wavy line] - Current-Ripple Lam.
- [Gently sloped line] - Gently Inclined Lam.
- [Wavy line] - Wavy Bed./Lam
- [Hummocky line] - Hummocky Cross-strat.
- [Convolute line] - Convolute Bedding
- [Cracks] - Syneresis Cracks
- [Parallel line] - Parallel Bed./Lam.

LITHOLOGIC ACCESSORIES

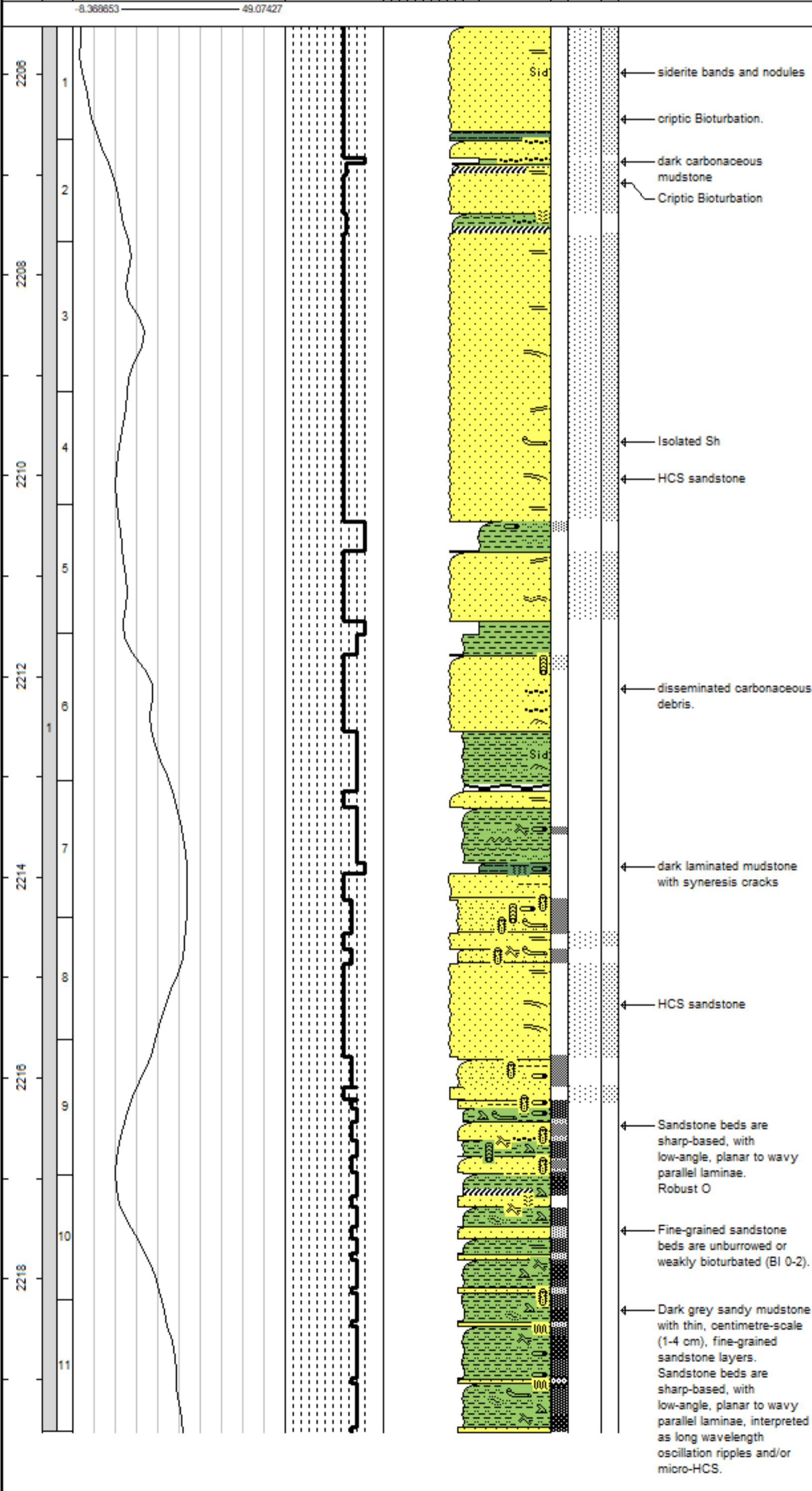
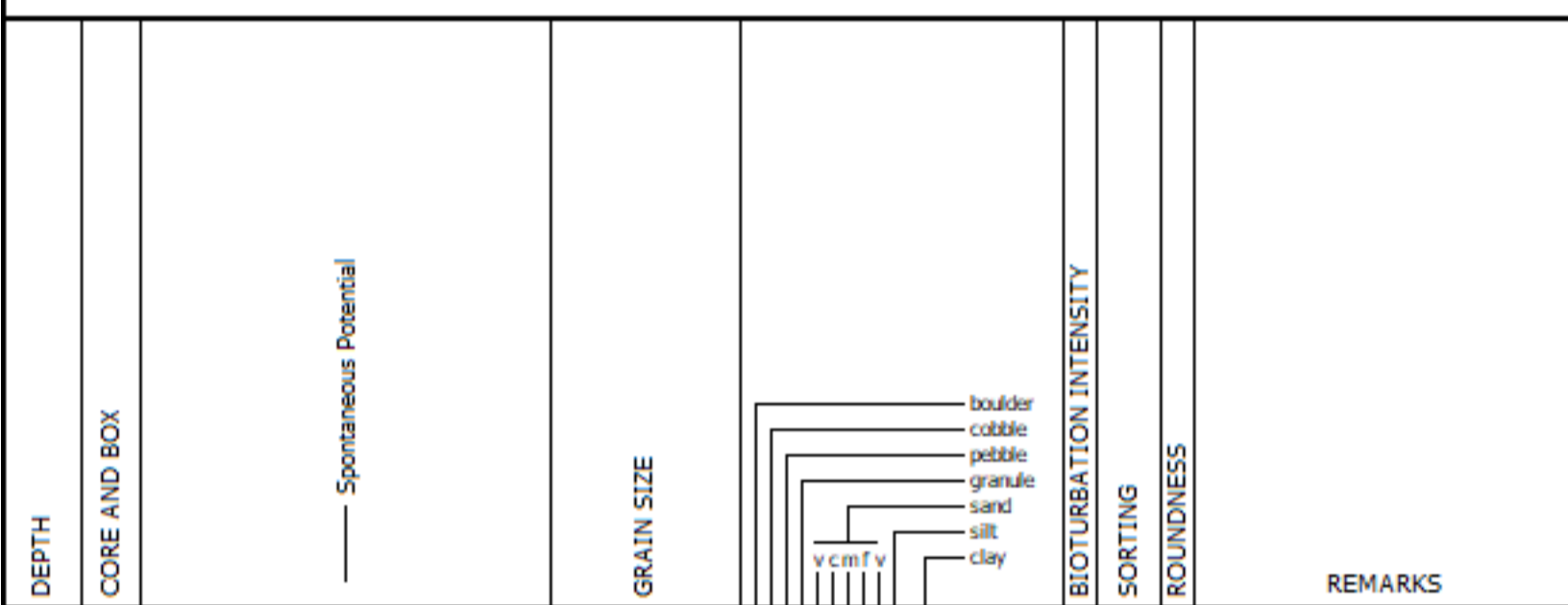
- [Dotted line] - Silt Lamina
- [Dashed line] - Shale Lamina
- [Sid] - Siderite
- [Dotted line] - Organic Frags.

ICHTNOFOSSILS

- [Planolite symbol] - Planolites
- [Ophiomorpha symbol] - Ophiomorpha
- [Escape Trace symbol] - Escape Trace
- [Thalassinoides symbol] - Thalassinoides
- [Chondrites symbol] - Chondrites
- [Schaubcylichnus freyi symbol] - Schaubcylichnus freyi
- [Teichichnus symbol] - Teichichnus
- [Helminthopsis symbol] - Helminthopsis
- [Phycosiphon symbol] - Phycosiphon

FOSSILS

- [Red algae symbol] - Red algae



Date Logged: June 15, 2017

Logged by: NAKARI DIAZ

Ground: 0.00 m KB: 0.00 m

Remarks: Crossfield Project




This core was taken in 1956 and recovered 7.3 m of core.

LEGEND




LITHOLOGY

<p> Sandstone</p> <p> Silty Mudstone</p> <p> Org. Sandstone</p>	<p> Silty Sandstone</p> <p> Mudstone</p> <p> Lost Core</p>	<p> Shale</p> <p> Coal</p>
--	---	--







PHYSICAL STRUCTURES

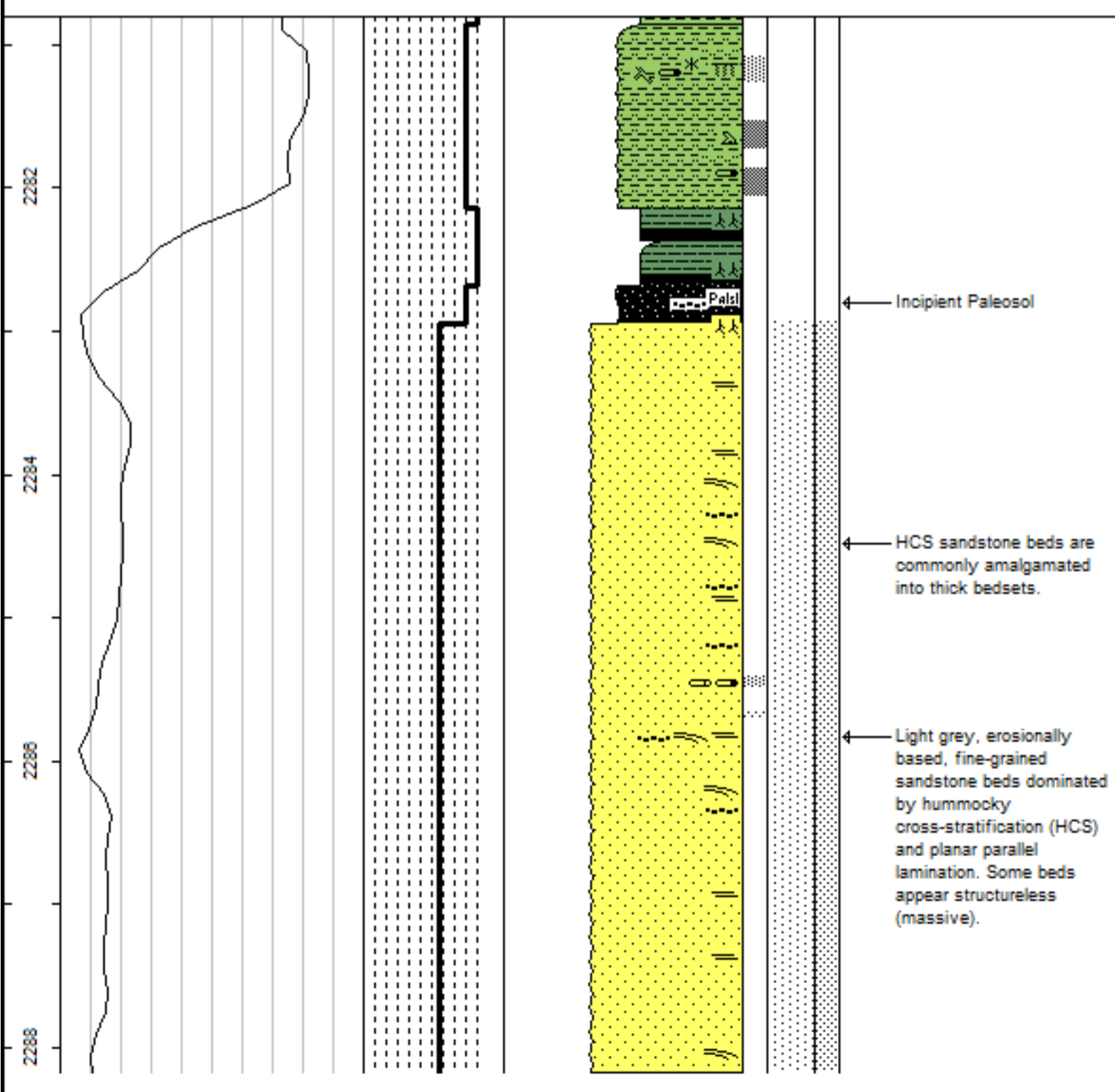
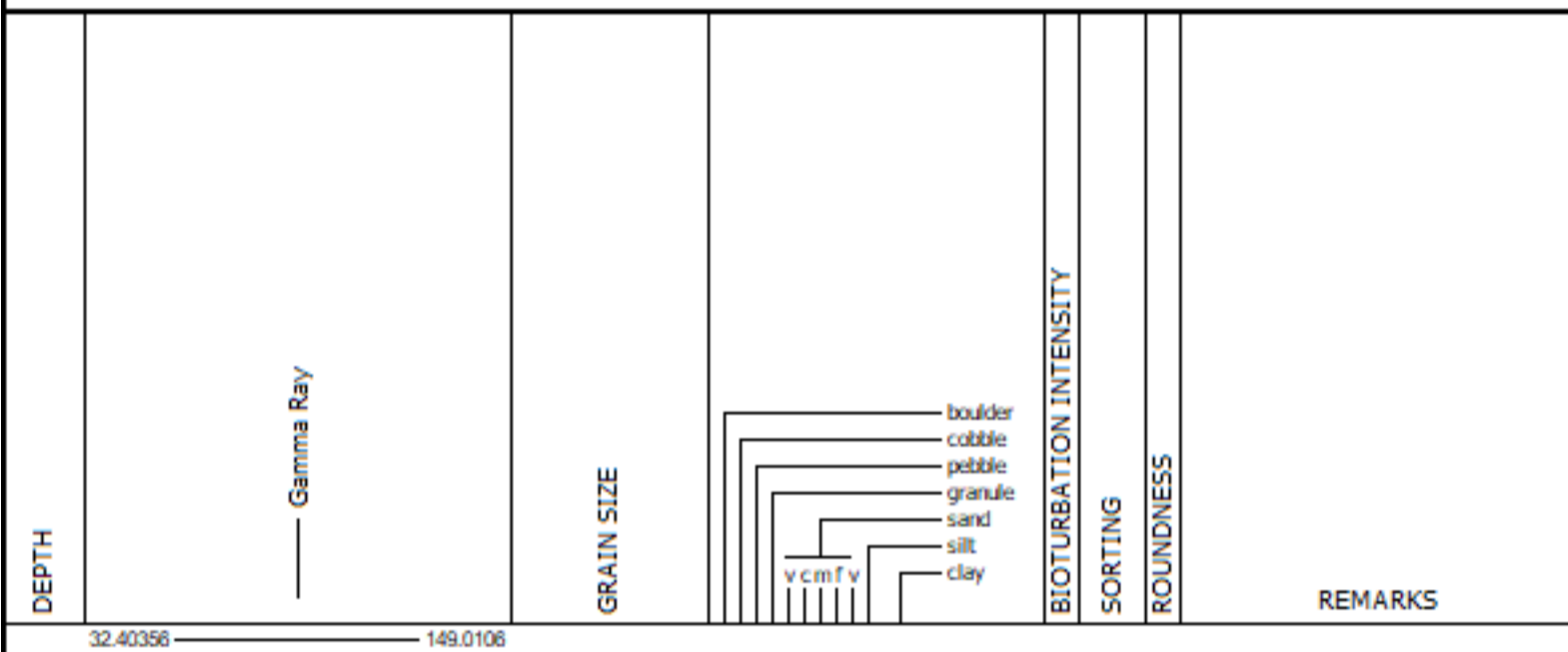
 Hummocky Cross-strat.	 Synaeresis Cracks	 Parallel Bed./Lam.
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LITHOLOGIC ACCESSORIES

 Silt Lamina	 Organic Frags.	 Paleosol Horizon
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ICHTNOFOSSILS

 Rootlets	 Planolites	 Palaeophycus
 Asterosoma	 Thalassinoides	 Chondrites



Date Logged: May 16, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

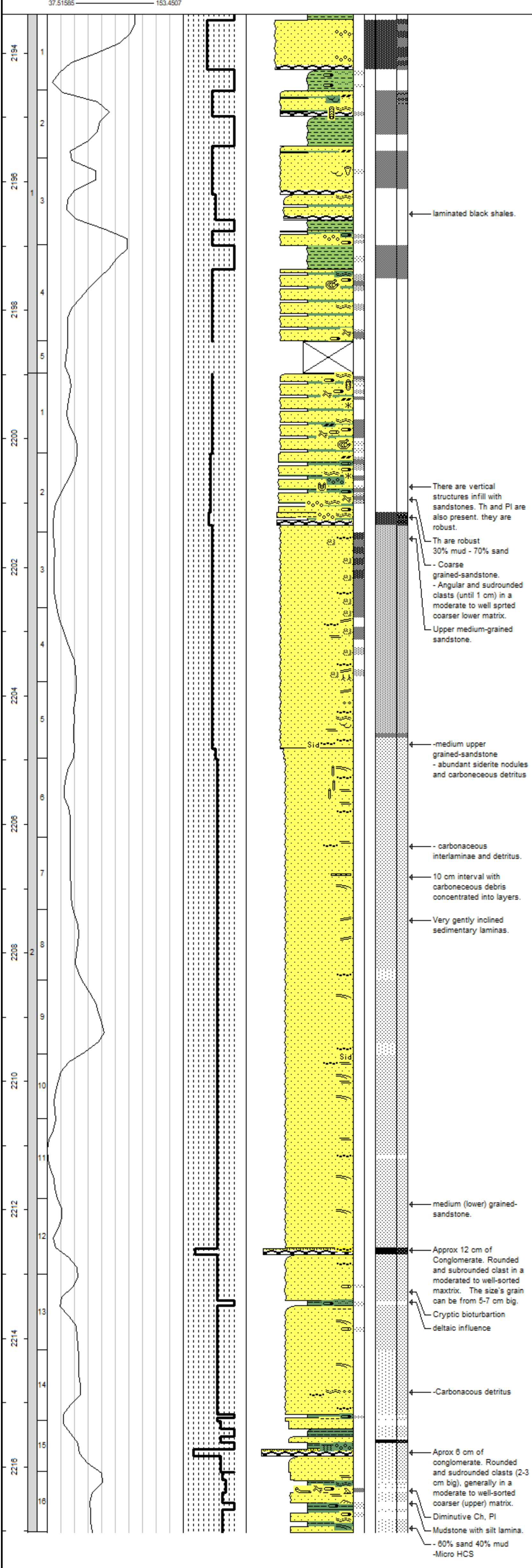
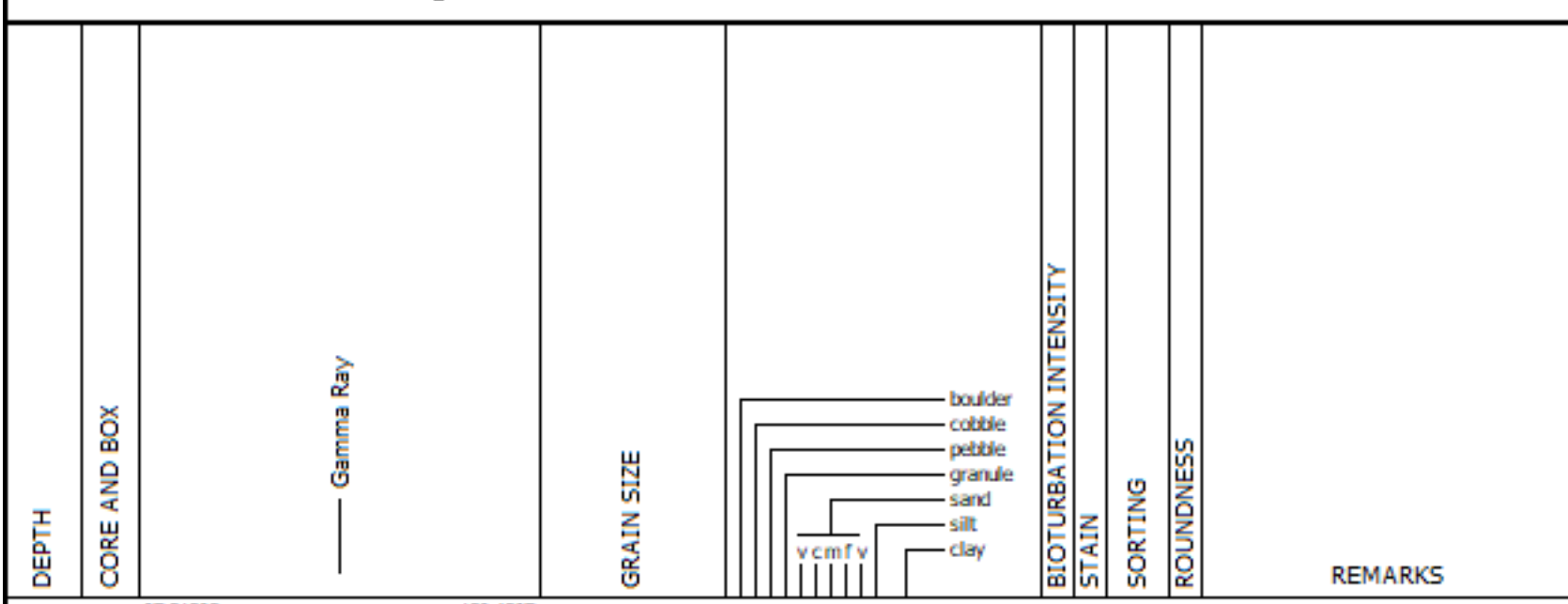
LEGEND

LITHOLOGY			
	Sandstone		Shale
	Clast-Sup Cgl		Conglomerate
	Mudstone		Lost Core
	Matrix-Sup Cgl		

PHYSICAL STRUCTURES			
	Current-Ripple Lam.		Trough Cross-strat.
	Hummocky Cross-strat.		Synaeresis Cracks
	Gently Inclined Lam.		Parallel Bed./Lam.
	Wavy Bed./Lam.		

LITHOLOGIC ACCESSORIES			
	Silt Lamina		Shale Lamina
	Peb/Gran/Crs Grns		Organic Lamina
	Siderite		Rip Up Clasts
	Organic Frags.		Dispersed Pebbles/Gran.








ICHTNOFOSSILS			
	Rootlets		Skolithos
	Diplocraterion		Macaronichnus
	Conichnus		Asterosoma
	Schaubcylichnus freyi		Teichichnus
	Planolites		Palaeophycus
	Ophiomorpha		Rhizocorallium
	Thalassinoides		Chondrites







Date Logged: May 25, 2017
 Logged by: Nakari Diaz
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

LEGEND







LITHOLOGY

 Sandstone	 Shale	 Sandy Mudstone	 Mudstone
 Clast-Sup Cgl	 Conglomerate	 Lost Core	












PHYSICAL STRUCTURES

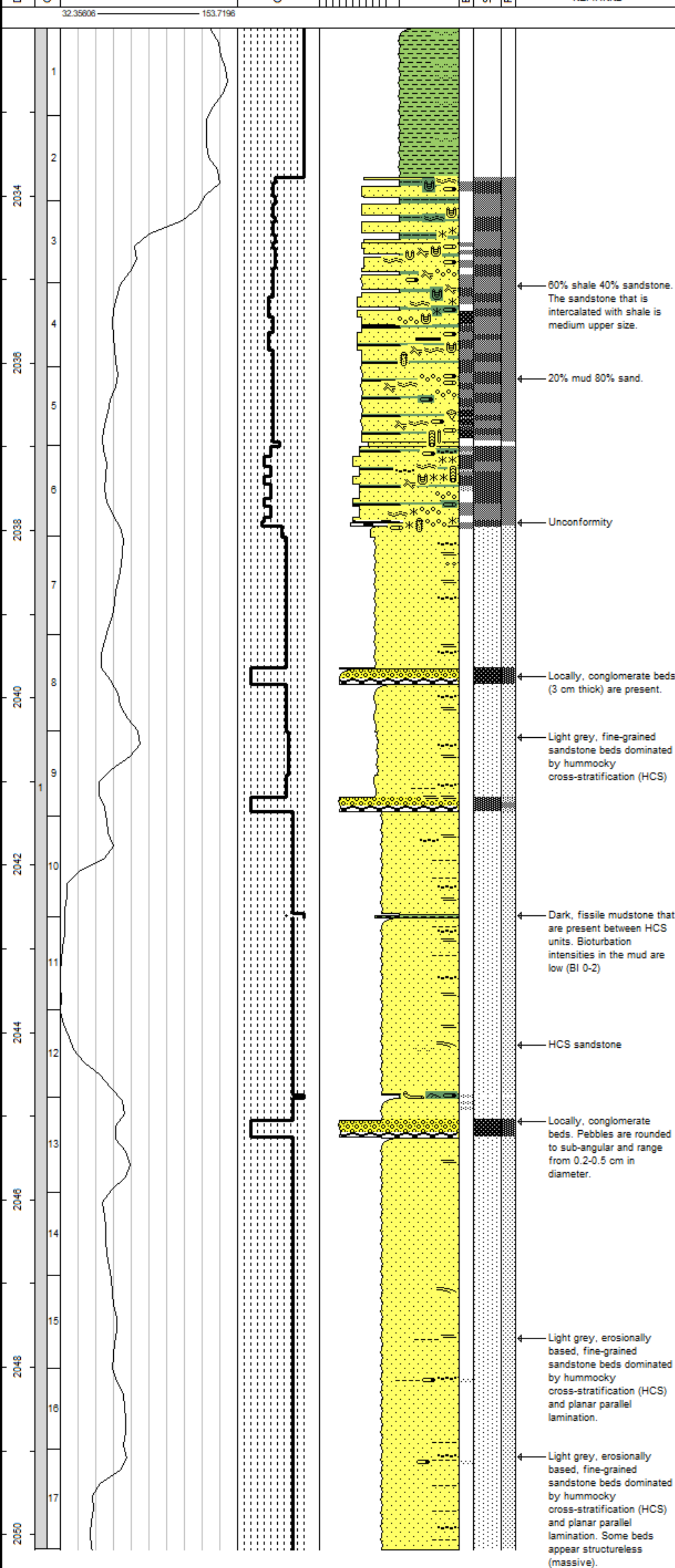
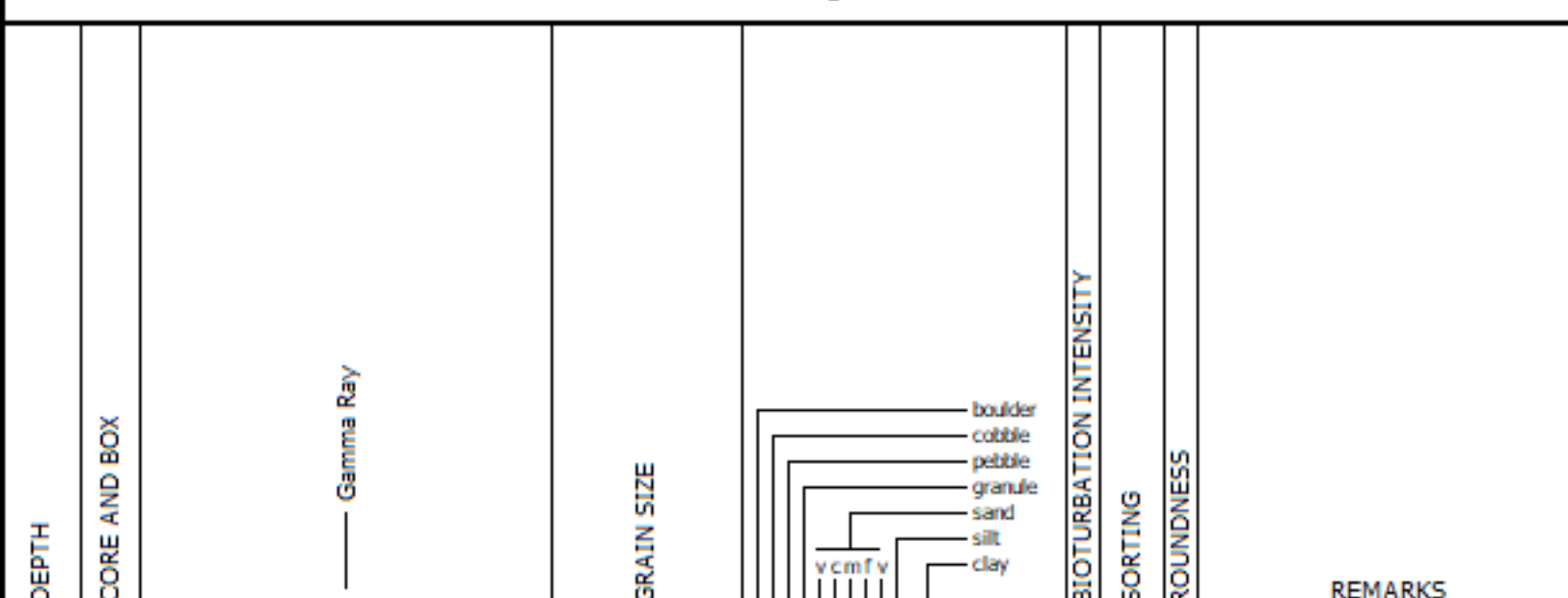
 Current-Ripple Lam.	 Wavy Bed./Lam	 Hummocky Cross-strat.	 Parallel Bed./Lam.
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LITHOLOGIC ACCESSORIES

 Silt Lamina	 Shale Lamina	 Peb/Gran/Crs Grns	 Coal Lamina
 Organic Frags.	 Dispersed Pebbles/Granul		

ICHTNOFOSSILS

 Skolithos	 Planolites	 Palaeophycus	 Diplocraterion
 Arenicolites	 Ophiomorpha	 Asterosoma	 Rosselia
 Thalassinoides	 Schaubcylindrichnus freyi	 Teichichnus	



14-11-026-28W4

Date Logged: July 21, 2018

Logged by:

Ground: 0.00 m KB: 0.00 m

Remarks:

LEGEND

LITHOLOGY

<ul style="list-style-type: none"> Sandstone Muddy Siltstone Sandy Mudstone Bentonite 	<ul style="list-style-type: none"> Silty Sandstone Shale Mudstone Lost Core 	<ul style="list-style-type: none"> Muddy Sandstone Silty Mudstone Conglomerate
--	--	--

PHYSICAL STRUCTURES

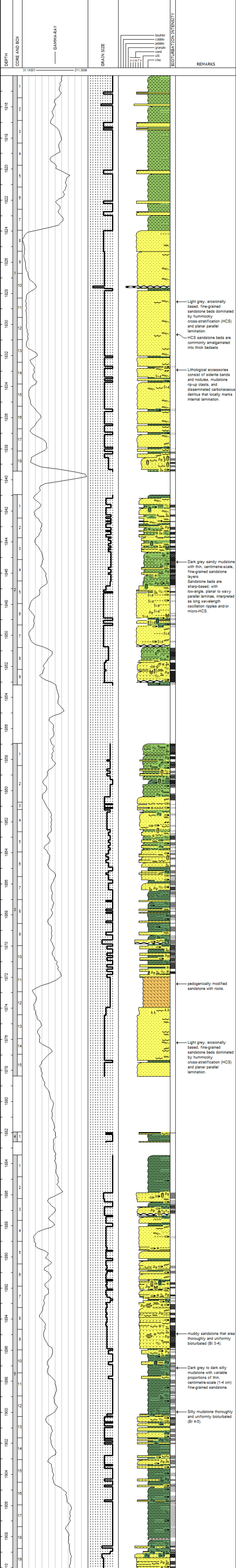
<ul style="list-style-type: none"> High-Angle Tab./Tan. Beds Hummocky Cross-strat. Parallel Bed./Lam. 	<ul style="list-style-type: none"> Gently Inclined Lam. Convolute Bedding Combined Flow Ripple 	<ul style="list-style-type: none"> Wavy Bed./Lam Sphaeresis Cracks
--	---	--

LITHOLOGIC ACCESSORIES

<ul style="list-style-type: none"> Sand Lamina Sid - Siderite Organic Frags. 	<ul style="list-style-type: none"> Silt Lamina Py - Pyrite ‰‰‰ - Dispersed Pebbles/Granules 	<ul style="list-style-type: none"> Shale Lamina Rip Up Clasts
---	--	--

ICHTNOFOSSILS

<ul style="list-style-type: none"> Rootlets Palaeophycus Rhizocorallium Chondrites Trypanites 	<ul style="list-style-type: none"> Skolithos Diplocraterion Asterosoma Schaubcylindrichnus freyi Phycosiphon 	<ul style="list-style-type: none"> Planolites Ophiomorpha Thalassinoides Teichichnus Schaubcylindrichnus coronus
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14-23-030-03W5

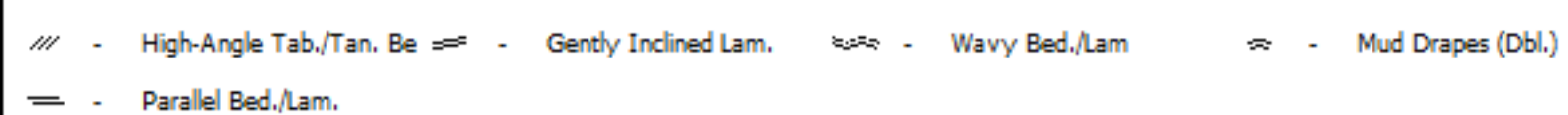
Date Logged: July 5, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: each box is 63 cm log

LEGEND

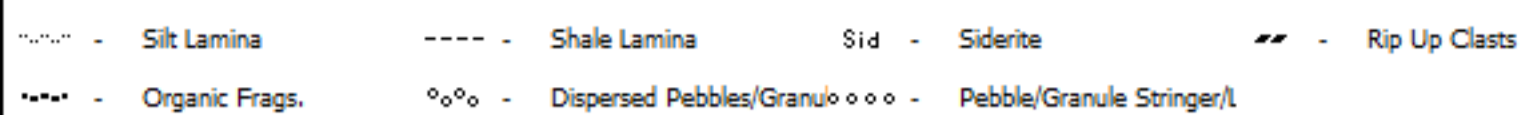
LITHOLOGY



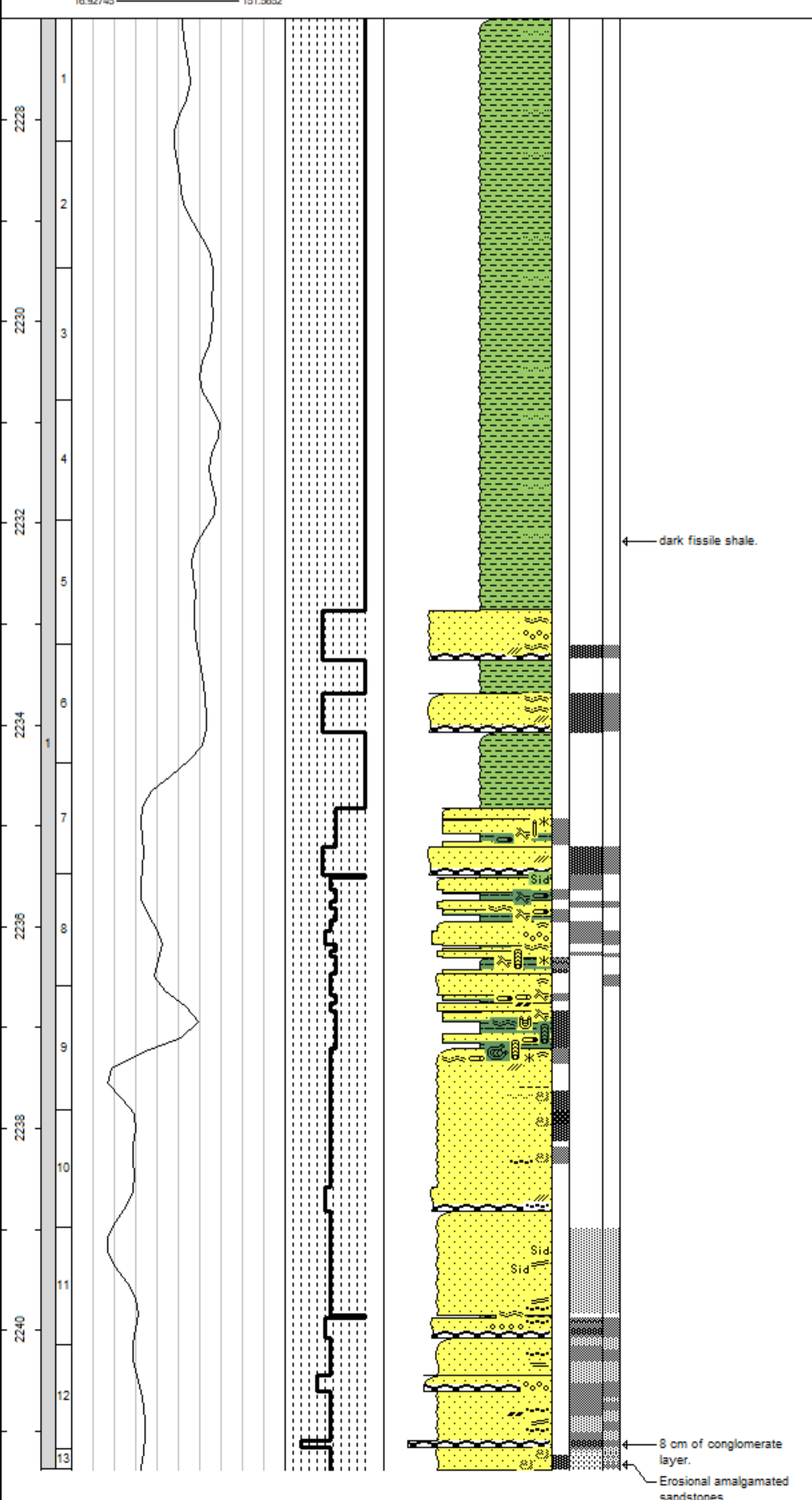
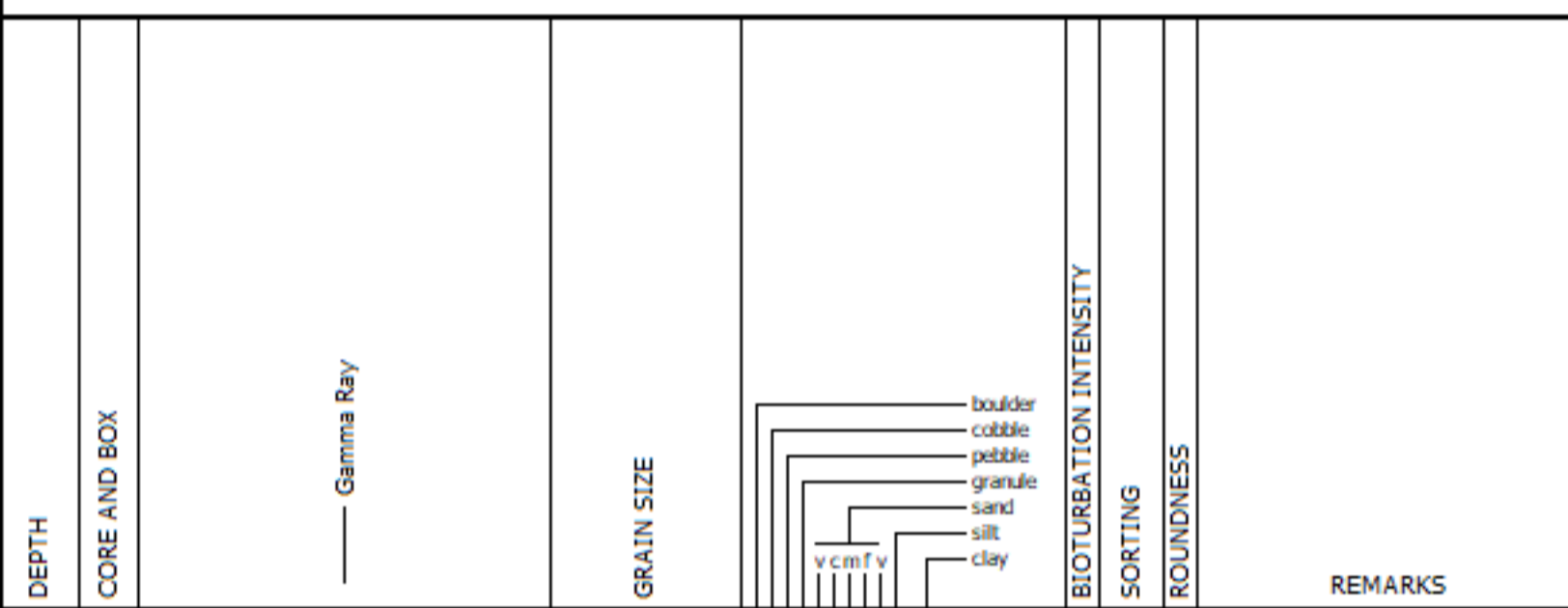
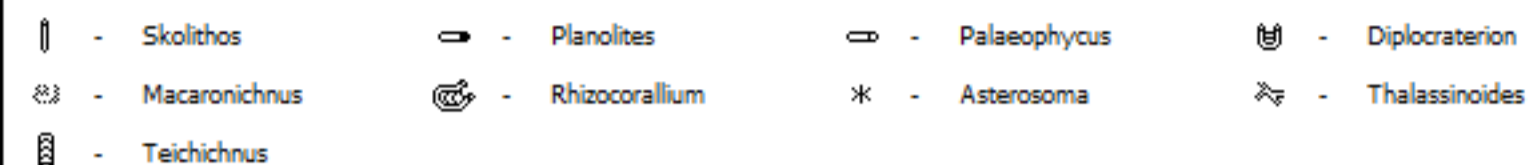
PHYSICAL STRUCTURES



LITHOLOGIC ACCESSORIES



ICHTNOFOSSILS



14-25-028-04W5

Date Logged: July 11, 2017

Logged by: Nakari Diaz

Ground: 0.00 m KB: 0.00 m

Remarks: Core depts didn't mach with the box leads. Try to calibrate the depts with the log. The top of core 3 includes carbonate debris. The top of core 3 doesn't mach with the base of core 2.

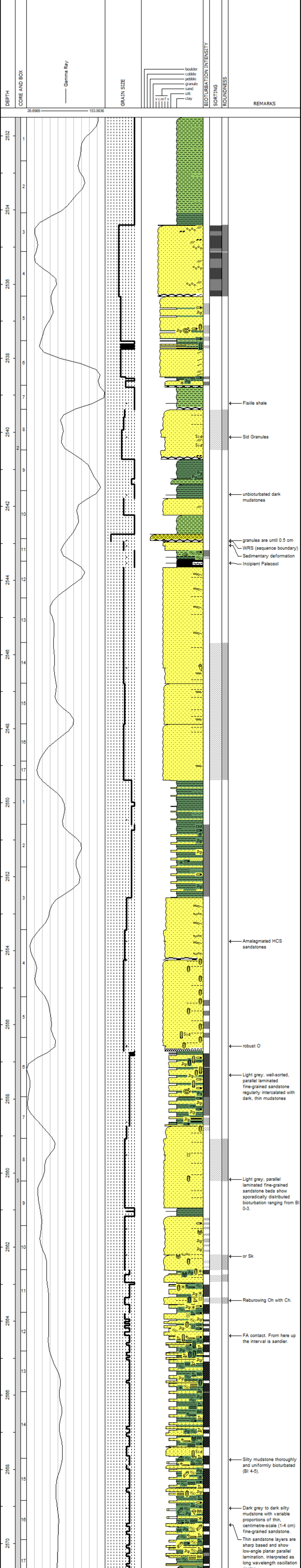
LEGEND

LITHOLOGY			
	Sandstone		Silty Sandstone
	Mudstone		Coal
	Shale		Conglomerate
	Sandy Mudstone		Lost Core

PHYSICAL STRUCTURES			
	High-Angle Tab./Tan. Be		Wavy Bed./Lam
	Mud/H. min. drapes		Hummocky Cross-strat.
	Parallel Bed./Lam.		

LITHOLOGIC ACCESSORIES			
	Sand Lamina		Silt Lamina
	Shale Lamina		Coal Lamina
	Siderite		Pyrite
	Chert		Rip Up Clasts
	Organic Frags.		
	Dispersed Pebbles/Granul		

ICHTNOFOSSILS			
	Planolites		Palaeophycus
	Escape Trace		Rhizocorallium
	Rosella		Thalassinoides
	Teichichnus		Zoophycos
	Schaubcylichnus coroi		Diplocraterion
			Cylindrichnus
			Chondrites
			Helminthopsis
			Ophiomorpha
			Asterosoma
			Schaubcylichnus frey
			Phycosiphon



14-30-031-28W4

Date Logged: July 14, 2017

Logged by: Nakari Diaz

Ground: 0.00 m KB: 0.00 m

Remarks: Crossfield Project

Cores are in poor conditions

LEGEND

LITHOLOGY

Sandstone	Sandy Mudstone	Mudstone	Conglomerate
Lost Core			

PHYSICAL STRUCTURES

- Current-Ripple Lam.	- Sym.-Ripple Lam.	- Wavy Bed./Lam	- Hummocky Cross-strat.
- Parallel Bed./Lam.			

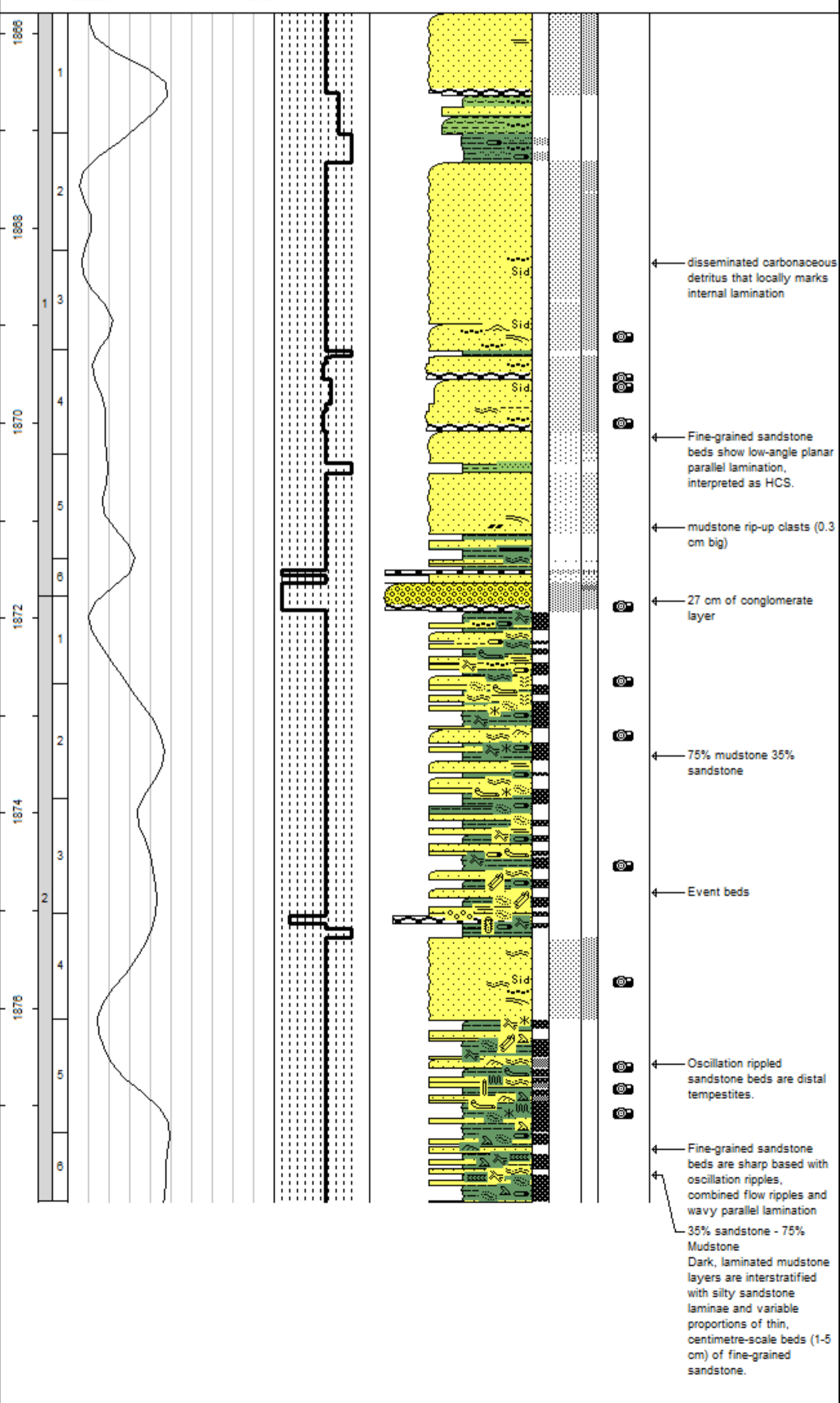
LITHOLOGIC ACCESSORIES

- Sand Lamina	- Silt Lamina	- Shale Lamina	- Coal Lamina
- Siderite	- Rip Up Clasts	- Organic Frags.	- Dispersed Pebbles/Granules

ICHTHOFOSSILS

- Skolithos	- Planolites	- Ophiomorpha	- Escape Trace
- Asterosoma	- Thalassinoides	- Chondrites	- Schaubcylindrichnus freyi
- Zoophycos	- Helminthopsis	- Phycosiphon	- Schaubcylindrichnus coronatus

DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	SORTING	ROUNDNESS	PHOTOS	REMARKS
	Gamma Ray	v c m f v	boulder cobble pebble granule sand silt clay				
	39.56105 — 151.2763						



Date Logged: May 10, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

LEGEND

LITHOLOGY

	Sandstone		Silty Sandstone		Muddy Sandstone
	Shale		Silty Mudstone		Sandy Mudstone
	Mudstone		Coal		Conglomerate
	Org. Sandstone		Lost Core		

PHYSICAL STRUCTURES

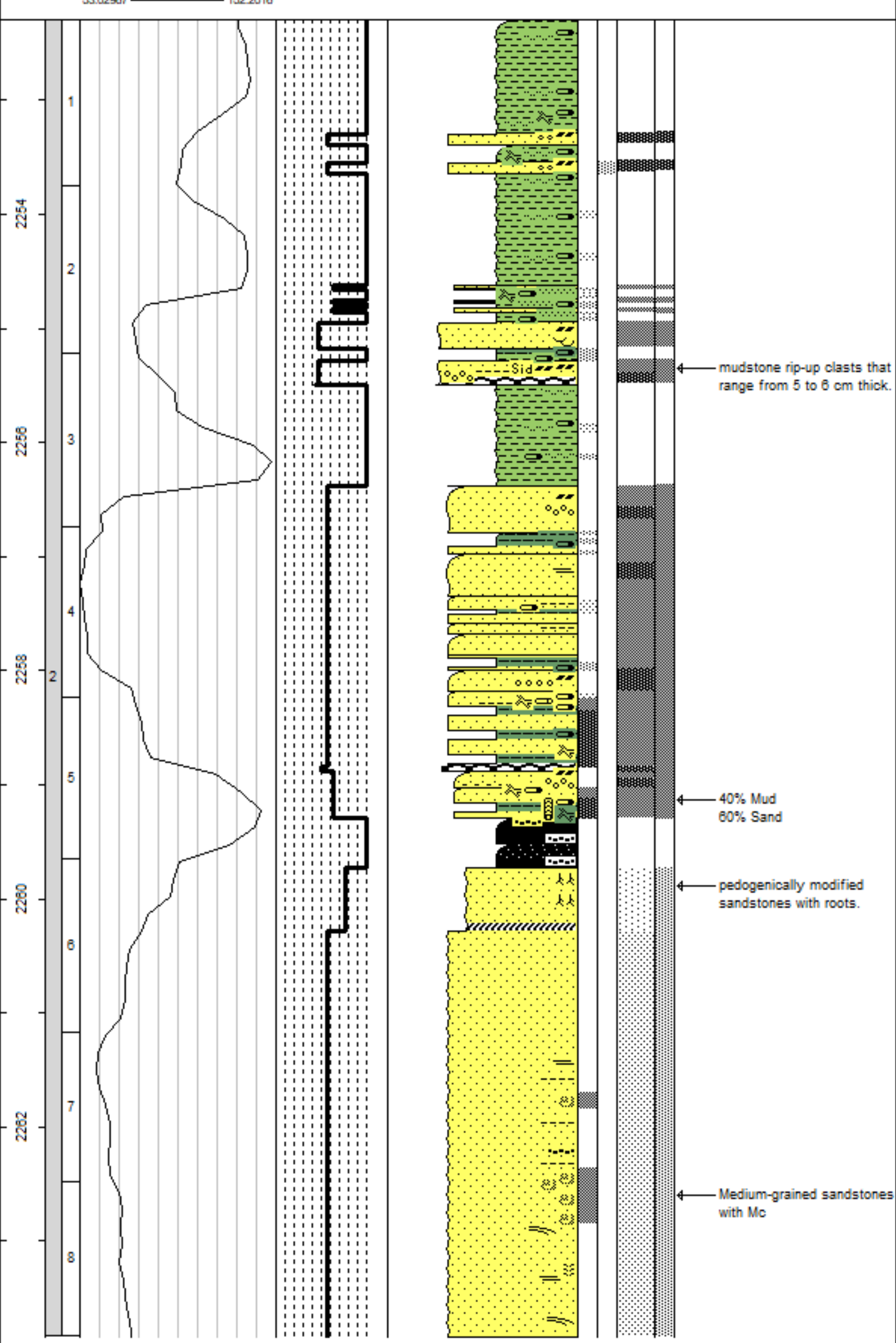
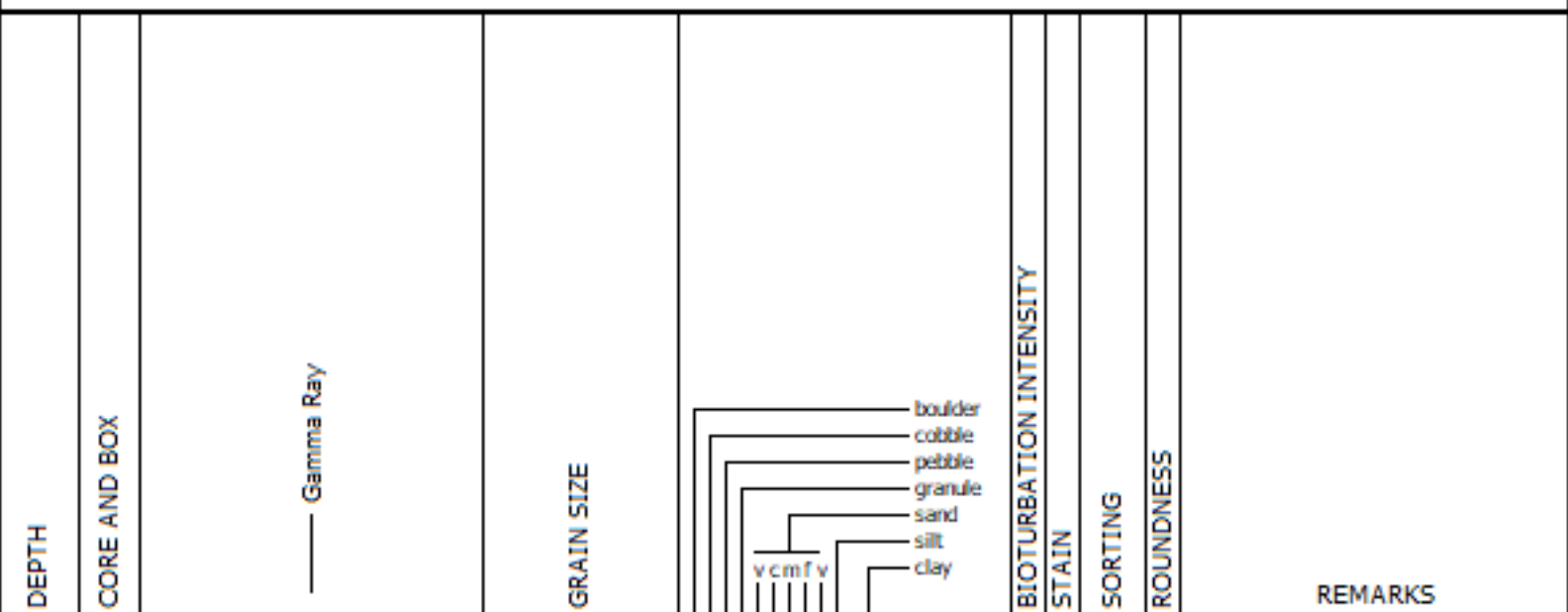
	Trough Cross-strat.		Hummocky Cross-strat.		Parallel Bed./Lam.
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LITHOLOGIC ACCESSORIES

	Sand Lamina		Silt Lamina		Shale Lamina
	Peb/Gran/Crs Grns		Siderite		Rip Up Clasts
	Organic Frags.		Dispersed Pebbles/Granules		Pebble/Granule Stringer/Lag

ICHTNOFOSSILS

	Rootlets		Planolites		Palaeophycus
	Macaronichnus		Escape Trace		Thalassinoides
	Teichichnus				



Date Logged: May 24, 2017
 Logged by:
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

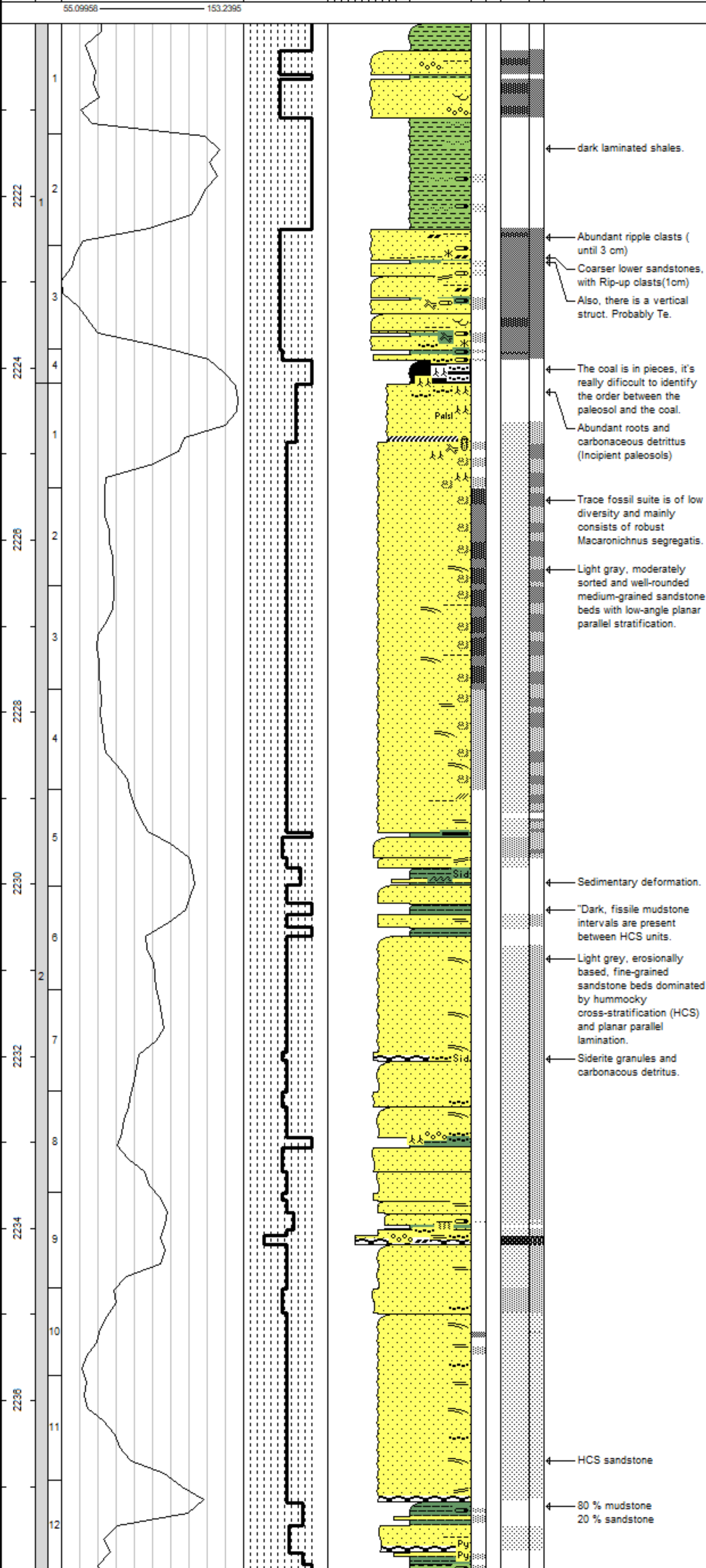
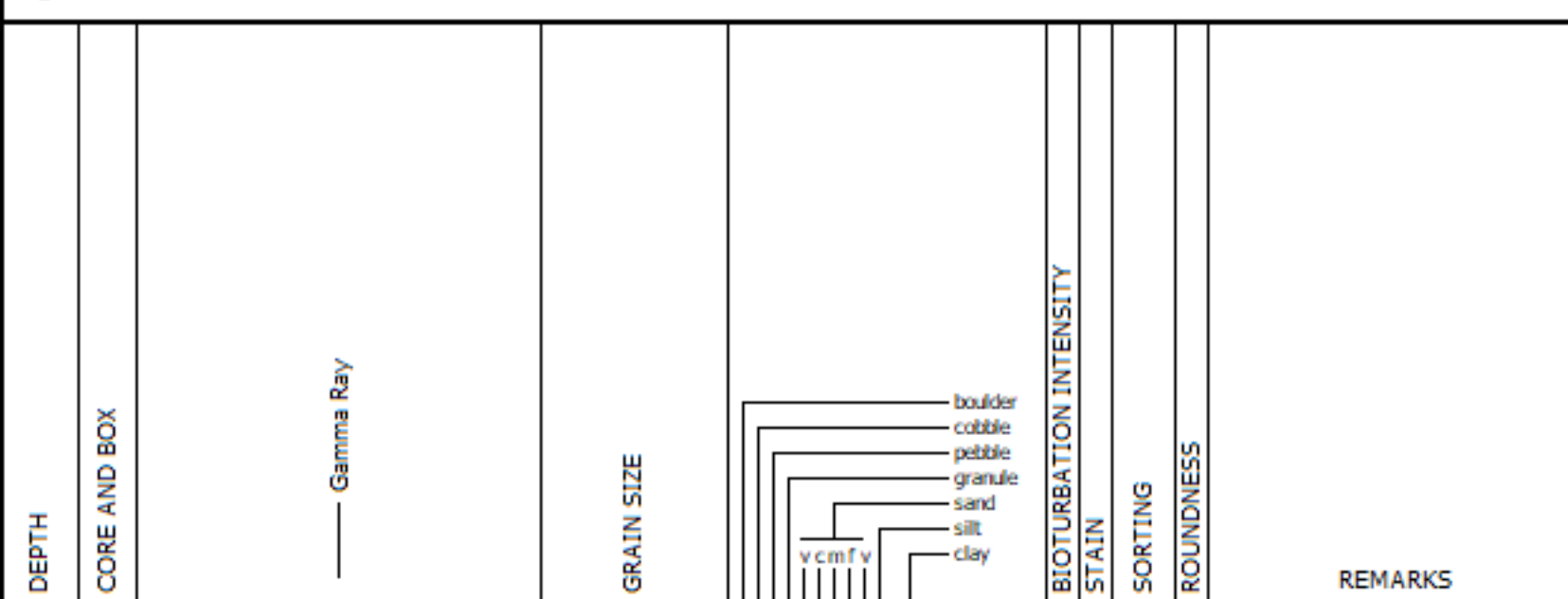
LEGEND

LITHOLOGY			
	Sandstone		Sandy Siltstone
	Coal		Matrix-Sup Cgl
	Shale		Lost Core
	Mudstone		

PHYSICAL STRUCTURES			
	Trough Cross-strat.		High-Angle Tab./Tan. Bed
	Convolute Bedding		Synaeresis Cracks
	Gently Inclined Lam.		Parallel Bed./Lam.
	Hummocky Cross-strat.		

LITHOLOGIC ACCESSORIES			
	Silt Lamina		Shale Lamina
	Coal Lamina		Organic Lamina
	Siderite		Pyrite
	Paleosol Horizon		Dispersed Pebbles/Granuk
	Rip Up Clasts		Organic Frags.









ICHTNOFOSSILS			
	Rootlets		Planolites
	Palaeophycus		Macaronichnus
	Ophiomorpha		Asterosoma
	Teichichnus		Thalassinoides
	Rhizocorallium		








Date Logged: May 24, 2017
 Logged by:
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project.

LEGEND







LITHOLOGY

 Sandstone	 Silty Sandstone	 Siltstone	 Sandy Siltstone
 Shale	 Mudstone	 Org. Sandstone	 Lost Core







PHYSICAL STRUCTURES

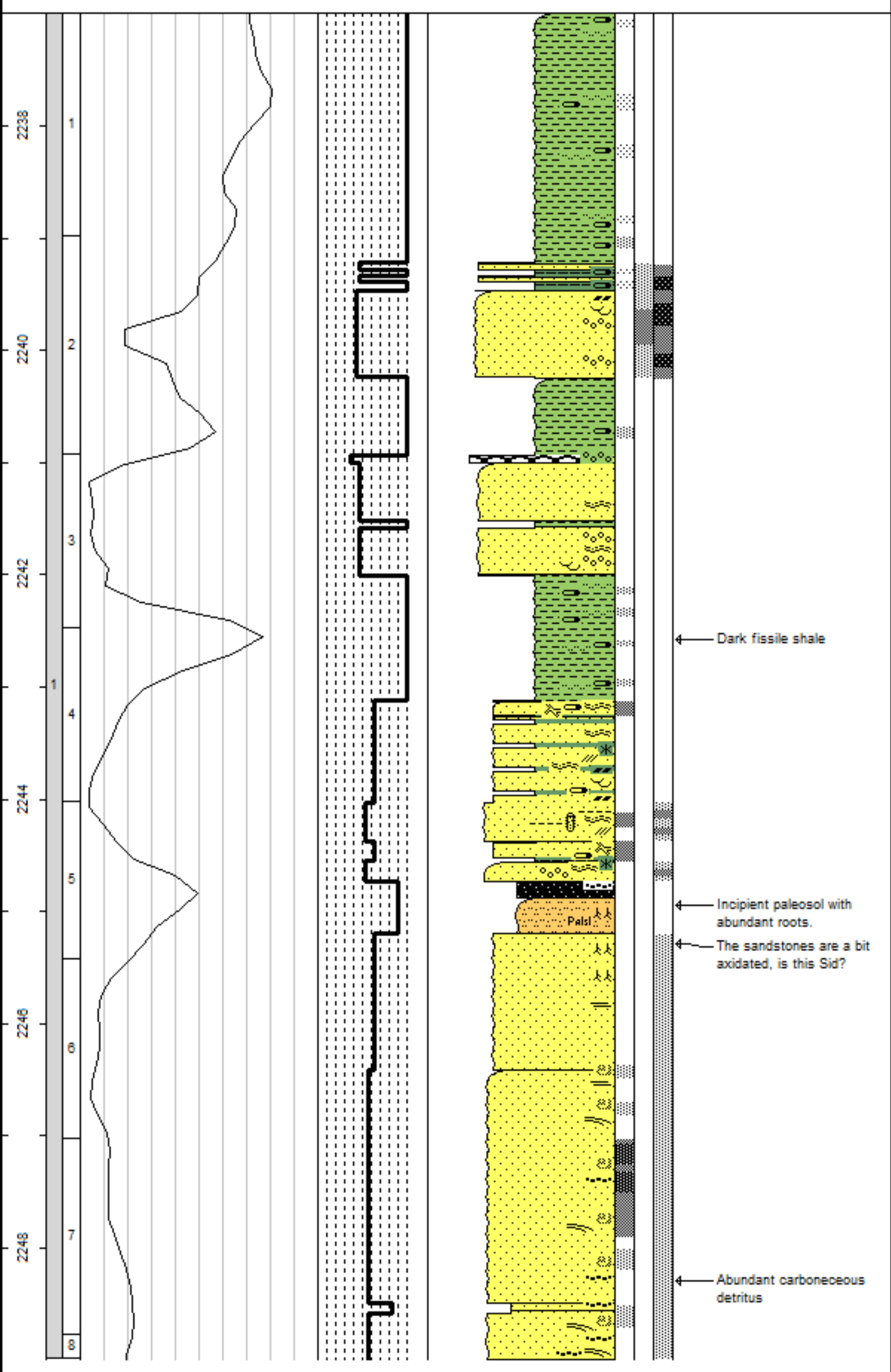
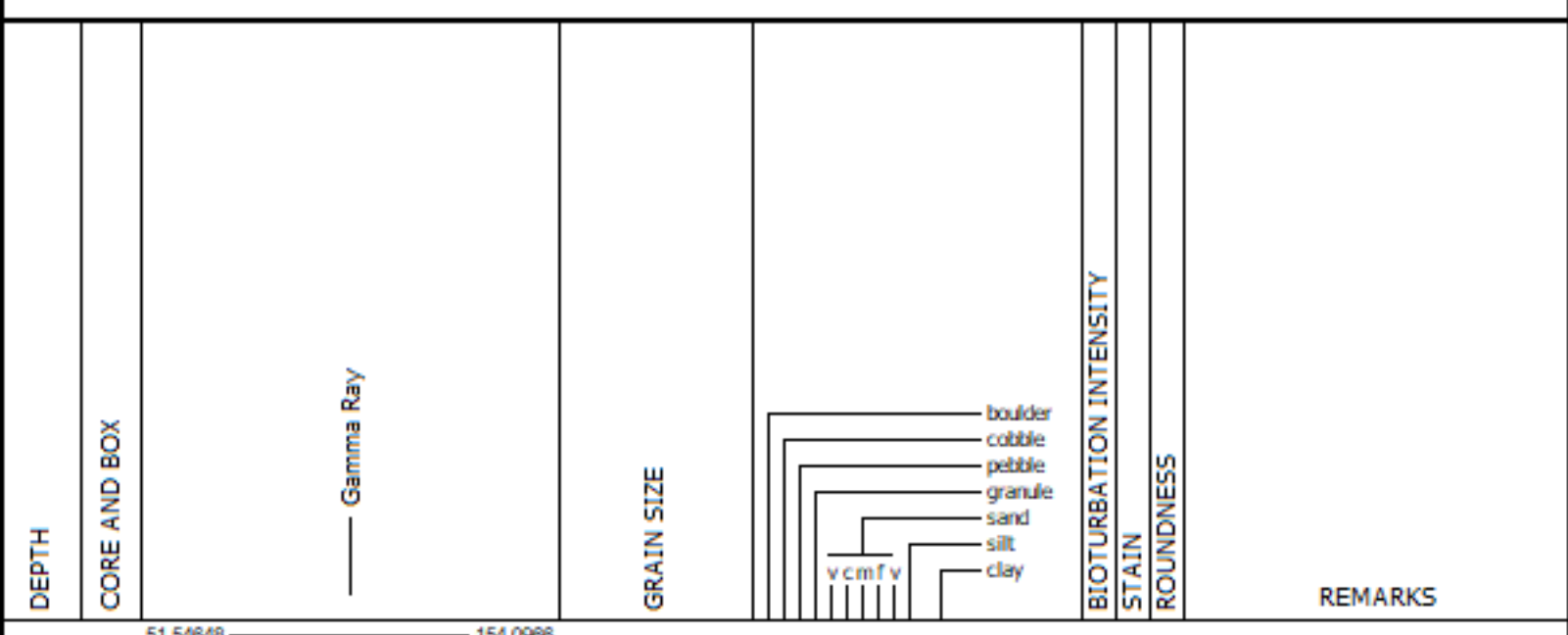
 - Trough Cross-strat.	 - High-Angle Tab./Tan. Bk.	 - Wavy Bed./Lam.	 - Hummocky Cross-strat.
 - Parallel Bed./Lam.			

LITHOLOGIC ACCESSORIES

 - Silt Lamina	 - Shale Lamina	 - Rip Up Clasts	 - Organic Frags.
 - Paleosol Horizon	 - Dispersed Pebbles/Gran.		

ICHTNOFOSSILS

 - Rootlets	 - Planolites	 - Macaronichnus	 - Ophiomorpha
 - Astrosoma	 - Thalassinoides		



Date Logged: July 13, 2018

Logged by:

Ground: 0.00 m KB: 0.00 m

Remarks:

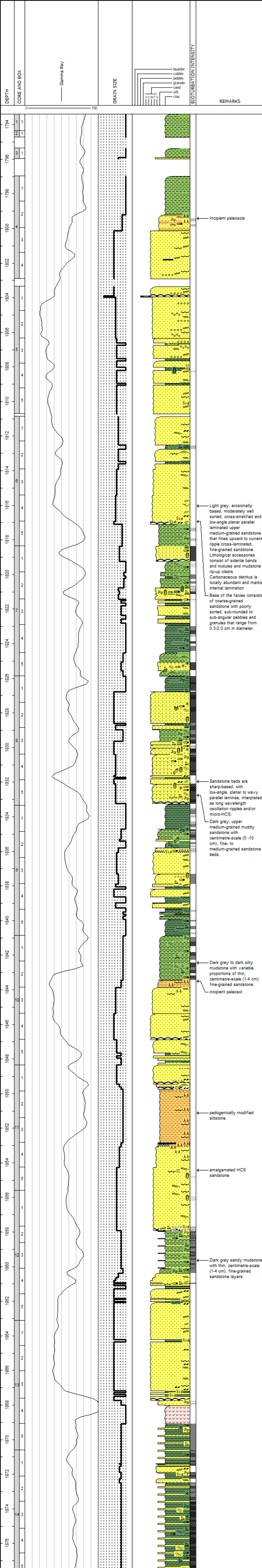
LEGEND

LITHOLOGY			
	Sandstone		Muddy Sandstone
	Siltstone		Muddy Siltstone
	Shale		Sandy Mudstone
	Mudstone		Org. Sandstone
	Bentonite		
	Silty Sandstone		
	Sandy Siltstone		
	Silty Mudstone		
	Conglomerate		
	Lost Core		

PHYSICAL STRUCTURES					
	Current-Ripple Lam.		Trough Cross-strat.		High-Angle Tab./Tan. Beds
	Gently Inclined Lam.		Wavy Bed./Lam		Hummocky Cross-strat.
	Parallel Bed./Lam.		Combined Flow Ripple		

LITHOLOGIC ACCESSORIES					
	Sand Lamina		Silt Lamina		Shale Lamina
	Coal Lamina	Sid - Siderite	Sid - Siderite		Rip Up Clasts
	Organic Frags.		Shell Fragments		Dispersed Pebbles/Granules
	Pebble/Granule Stringer/Lag				

ICHTNOFOSSILS					
	Rootlets		Skolithos		Planolites
	Palaeophycus		Diplocraterion		Ophiomorpha
	Escape Trace		Asterosoma		Thalassinoides
	Chondrites		Phycosiphon		Schaubcylichrichus coronus
	Phycosiphon				



Incipient paleosols

Light grey, erosionally based, moderately well sorted, cross-stratified and low-angle planar parallel laminated upper medium-grained sandstone that fines upward to current ripple cross-laminated, fine-grained sandstone. Lithological accessories consist of siderite bands and nodules and mudstone rip-up clasts. Carbonaceous detritus is locally abundant and marks internal lamination

Base of the facies consists of coarse-grained sandstone with poorly sorted, sub-rounded to sub-angular pebbles and granules that range from 0.3-2.0 cm in diameter.

Sandstone beds are sharp-based, with low-angle, planar to wavy parallel laminae, interpreted as long wavelength oscillation ripples and/or micro-HCS.

Dark grey, upper medium-grained muddy sandstone with centimetre-scale (5 -10 cm), fine- to medium-grained sandstone beds.

Dark grey to dark silty mudstone with variable proportions of thin, centimetre-scale (1-4 cm) fine-grained sandstone.

incipient paleosol

pedogenically modified siltstone

amalgamated HCS sandstone

Dark grey sandy mudstone with thin, centimetre-scale (1-4 cm), fine-grained sandstone layers.

Date Logged: June 28, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield project

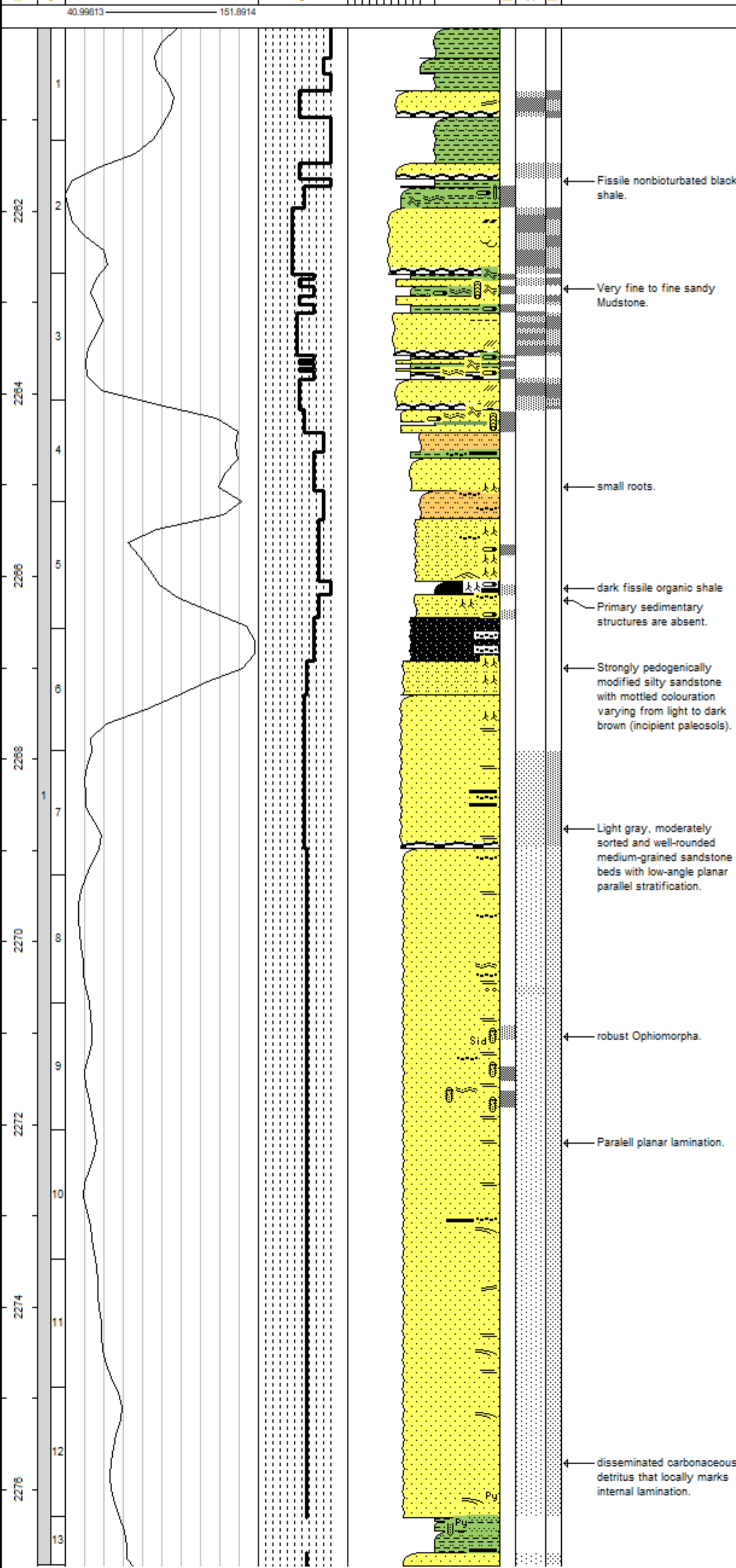
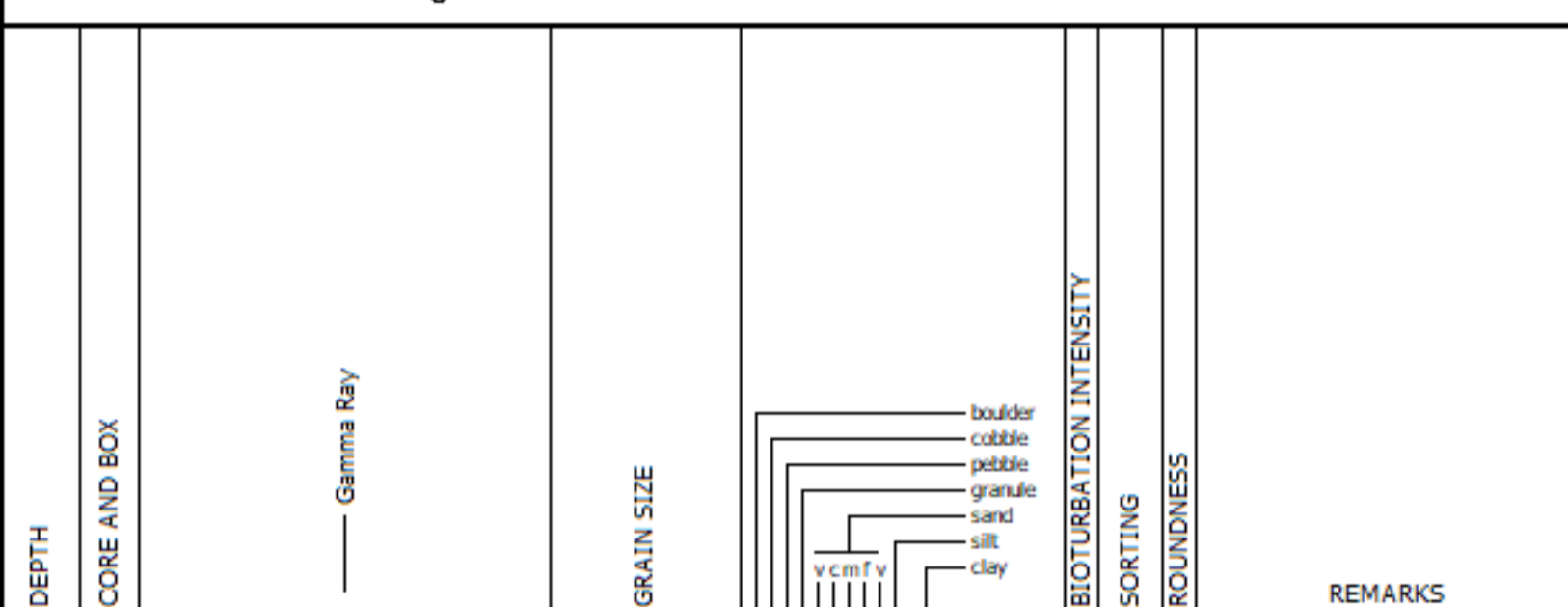
LEGEND

LITHOLOGY			
	Sandstone		Silty Sandstone
	Silty Mudstone		Sandy Mudstone
	Org. Sandstone		Lost Core
	Siltstone		Mudstone
	Shale		Coal

PHYSICAL STRUCTURES			
	Trough Cross-strat.		High-Angle Tab./Tan. Be
	Hummocky Cross-strat.		Parallel Bed./Lam.
	Gently Inclined Lam.		Combined Flow Ripple
	Wavy Bed./Lam		

LITHOLOGIC ACCESSORIES			
	Sand Lamina		Shale Lamina
	Peb/Gran/Crs Grns		Coal Lamina
	Siderite		Pyrite
	Rip Up Clasts		Organic Frags.









ICHTNOFOSSILS			
	Rootlets		Skolithos
	Thalassinoides		Planolites
	Ophiomorpha		Glossifungites Ichnofacies
	Teichichnus		













06-24-029-02W5











Date Logged: June 27, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks:

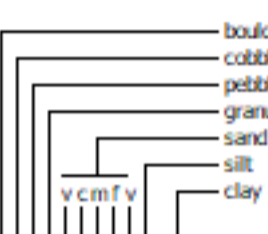
LEGEND

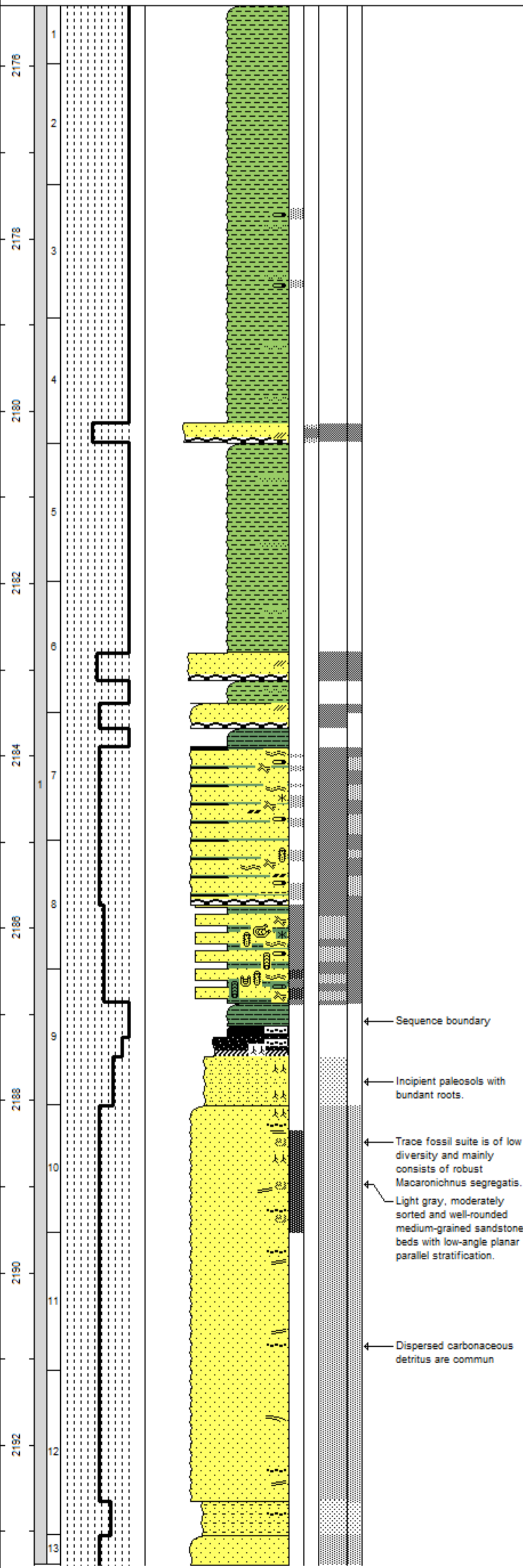
LITHOLOGY		
 Sandstone	 Silty Sandstone	 Muddy Sandstone
 Shale	 Mudstone	 Coal
 Org. Sandstone	 Lost Core	

PHYSICAL STRUCTURES		
 High-Angle Tab./Tan. Bed	 Gently Inclined Lam.	 Wavy Bed./Lam
 Hummocky Cross-strat.	 Parallel Bed./Lam.	

LITHOLOGIC ACCESSORIES		
 Sand Lamina	 Silt Lamina	 Shale Lamina
 Rip Up Clasts	 Organic Frags.	

ICHNOFOSSILS		
 Rootlets	 Planolites	 Palaeophycus
 Diplocraterion	 Macaronichnus	 Ophiomorpha
 Rhizocorallium	 Asterosoma	 Thalassinoides
 Teichichnus		

DEPTH	CORE AND BOX	GRAIN SIZE	BIOTURBATION INTENSITY	STAIN	SORTING	ROUNDNESS	REMARKS
							



Date Logged: July 19, 2018
 Logged by:
 Ground: 0.00 m KB: 0.00 m
 Remarks:

LEGEND

LITHOLOGY

Sandstone	Silty Sandstone	Muddy Sandstone
Siltstone	Shale	Silty Mudstone
Mudstone	Conglomerate	Bentonite
Lost Core		

PHYSICAL STRUCTURES

Trough Cross-strat.	High-Angle Tab./Tan. Beds	Gently Inclined Lam.
Wavy Bed./Lam	Hummocky Cross-strat.	Convolute Bedding
Parallel Bed./Lam.	Combined Flow Ripple	Climbing Ripples

LITHOLOGIC ACCESSORIES

Silt Lamina	Shale Lamina	Siderite
Pyrite	Rip Up Clasts	Organic Frags.
Pebble/Granule Stringer/Lag		

ICHNOFOSSILS

Rootlets	Skolithos	Planolites
Palaeophycus	Diplocraterion	Ophiomorpha
Asterosoma	Rosselia	Thalassinoides
Chondrites	Schaubcylindrichnus freyi	Teichichnus
Zoophycos	Helminthopsis	Phycosiphon

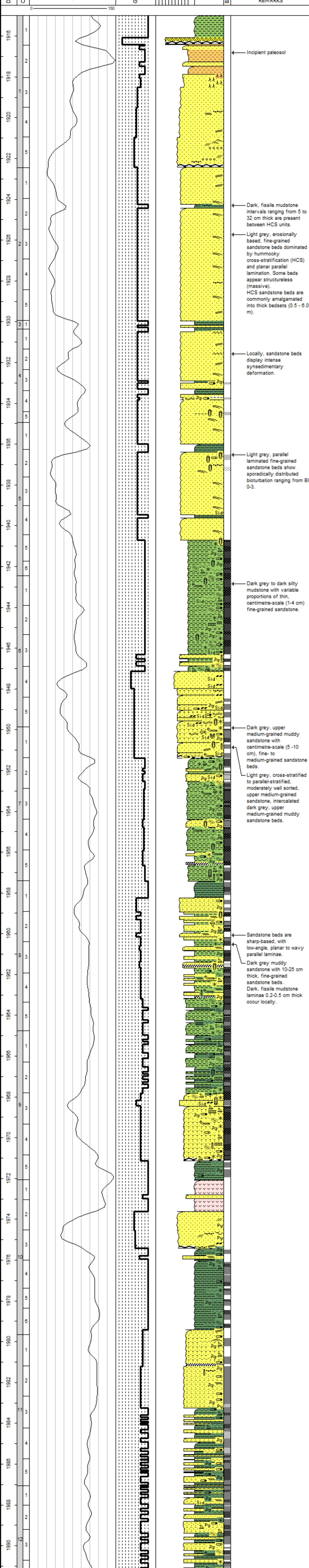
DEPTH: 0 to 150

CORE AND BOX: Gamma Ray

GRAIN SIZE: boulder, cobble, pebble, granule, sand, silt, clay

BIOTURBATION INTENSITY: v, cm, f, v

REMARKS



Date Logged: May 2, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

LEGEND

LITHOLOGY

Sandstone	Silty Sandstone	Muddy Sandstone
Siltstone	Shale	Silty Mudstone
Sandy Mudstone	Mudstone	Coal
Conglomerate	Org. Sandstone	Lost Core

PHYSICAL STRUCTURES

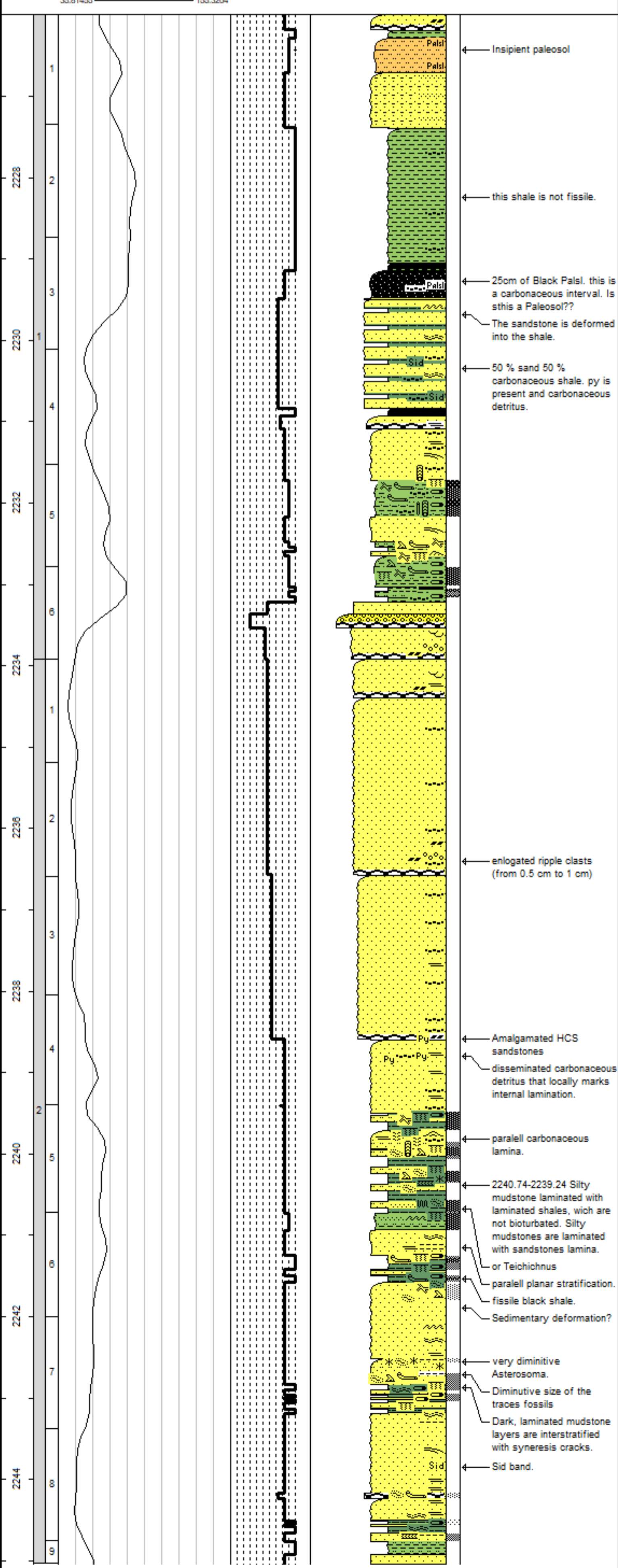
- Current-Ripple Lam.	- Trough Cross-strat.	- Sym.-Ripple Lam.
- Wavy Bed./Lam	- Hummocky Cross-strat.	- Convolute Bedding
- Synaeresis Cracks	- Parallel Bed./Lam.	

LITHOLOGIC ACCESSORIES

- Sand Lamina	- Shale Lamina	- Coal Lamina
- Siderite	- Pyrite	- Rip Up Clasts
- Organic Frags.	- Paleosol Horizon	- Dispersed Pebbles/Granules

ICHTNOFOSSILS

- Skolithos	- Planolites	- Ophiomorpha
- Escape Trace	- Asterosoma	- Thalassinoides
- Chondrites	- Schaubcylindrichnus freyi	- Teichichnus
- Zoophycos	- Helminthopsis	- Phycosiphon
- Schaubcylindrichnus coronus		

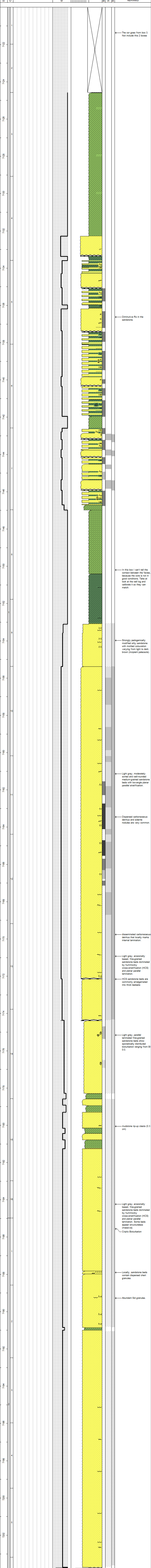


02-13-029-02W5

Date Logged: July 5, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project
 Core 1:7125-7185
 Core2:7185-7205

LEGEND

LITHOLOGY			
PHYSICAL STRUCTURES			
LITHOLOGIC ACCESSORIES			
ICHTHOFOSSILS			



02_10-12-025-26W4

Date Logged: July 18, 2017
 Logged by: NAKARI DIAZ
 Ground: 0.00 m KB: 0.00 m
 Remarks: Crossfield Project

CORE 3_Box16 (1558-1576)_Box:1.23
 CORE2_Box16(1524.10-1542)
 CORE1_Box16(1506-1524.10)

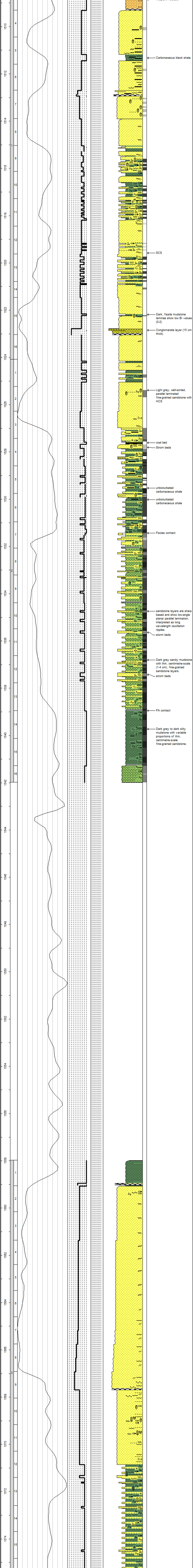
LEGEND

LITHOLOGY			

PHYSICAL STRUCTURES			

LITHOLOGIC ACCESSORIES			

ICHTHOFOSSILS			



Date Logged: May 26, 2017

Logged by: NAKARI DIAZ

Ground: 0.00 m KB: 0.00 m

Remarks: Crossfield Project.

This core was taken by Shell so it was logged from right to left.

LEGEND

LITHOLOGY

- Sandstone
- Muddy Sandstone
- Silty Mudstone
- Coal
- Silty Sandstone
- Shale
- Sandy Mudstone
- Lost Core

PHYSICAL STRUCTURES

- Current-Ripple Lam.
- Sym.-Ripple Lam.
- Wavy Bed./Lam
- Convolute Bedding
- Parallel Bed./Lam.
- Trough Cross-strat.
- Gently Inclined Lam.
- Hummocky Cross-strat.
- Synaeresis Cracks
- Combined Flow Ripple

LITHOLOGIC ACCESSORIES

- Sand Lamina
- Shale Lamina
- Siderite
- Rip Up Clasts
- Dispersed Pebbles/Granules
- Silt Lamina
- Organic Lamina
- Pyrite
- Organic Frags.

ICHTNOFOSSILS

- Rootlets
- Palaeophycus
- Ophiomorpha
- Rhizocorallium
- Asterosoma
- Thalassinoides
- Teichichnus
- Planolites
- Diplocraterion
- Escape Trace
- Conichnus
- Rosselia
- Schaubcylichnus freyi

DEPTH

CORE AND BOX

GRAIN SIZE

boulder
cobble
pebble
granule
sand
silt
clay

BIOTURBATION INTENSITY

REMARKS

