

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. / Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/Lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
V AS 14			0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	95% cement, 14-1 to 3, 14-3 mudstone sandst.
V u 7			0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	100% cement
V u 15			5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	95% cement
V u 18			15	Soft / Semi Hard	Yes / No	Angular/Round/Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	85% cement, very small chips of soft mudst. + hardst.
V u 8			0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	100% cement
V 22			5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	35% cement, big pieces; bypass siltst. Small, weak silt.
V 26			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	20% cement, most siltst.
V 25			<5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	75	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	15% cement
V 20			0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	40% cement
V 24			5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	30% cement
V 28			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	cement pretty much gone (c1%) Fossils rare pyritized
V 29			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	c1% cement,
V 30			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	rare seichousides, pyritized and non-dark green black pyritized fossils
V 31			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	complanates / free black lough, pyritized fossils, clean fossils

Wood/Lignite Fossils abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic -1)

NO. Date: 03/11/12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Siltstone				Sandstone			
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape
16				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
17				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/Platy
09				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
19				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
27			20	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/Platy
21			10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy
15			5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy

Handwritten notes on the left margin:
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Wood/Lignite Fossiles abundances:
 N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone / Siltstone				Sandstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
>4 34	980.5	985.5	100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	hardrock with some siltstone >4mm	AS
>4 31			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	Some window rocks, some siltstone >4mm	AS
>4 30			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	AS
>4 37			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4 1 granite piece found	JG
>4 32			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	AS
>4 26			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm, includes cement	AS
>4 44			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	JG
>4 27			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm cement	AS
>4 28			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm, cement	AS
>4 48			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm / >80% deformation from drilling	
✓ date 25			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	whole rock	AS
✓ 32			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	whole rock	AS
✓ 34			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	whole rock	AS
✓ 35			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	whole rock	

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From 52 every 10m

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. / Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
✓ 36			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, silt-mudrock	AS
✓ 37			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, silt-mudrock	AS
✓ 40			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, silt-mudrock	AS
✓ 41			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock	AS
✓ 42			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock	AS
✓* 43			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, very muddy! no to less siltstone; no chips, only chips	AS PS
✓ 44			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, very muddy! not a lot of siltrock, no chips	AS
✓ 45			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	normal chips again, more siltstone, whole rock	AS
✓ 46			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, drill grooves some granite grains, rare sands + ?	AS
✓ 47			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, mudrock slight increased?	AS
✓ 48			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, mudrock increased!	AS
✓* 49			99.5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0.5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, few sand-grains shl next mud	AS
✓ 50			99.5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0.5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, few sand-grains	"
✓ 51			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, no sand-grains lots of mudrock	"

Wood/Lignite Fossiles abundances:

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Sample ID	From (mbsf)	To (mbsf)	Mudstone / Siltstone				Sandstone & Siltstone				Wood/Lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
✓ 52			99	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, sand-grains few	AS
✓ 54			99	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, silt + mud grains	AS
✓ 56			99	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, few sand grains	AS
✓ 58			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, no sand detected	AS
✓ 62			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, no sand	AS
✓ 64			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	" "	AS
✓ 66			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	" "	h
✓ 68			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	" "	h
* 71			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, sandy grains	AS
✓ 73			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, sandy grains	AS
✓ 75			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, some sand	AS
✓ 77			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, some sand	"
✓ 80			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	" -"	"
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		

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Sample ID	From (mbsf)	To (mbsf)	Mudstone / <i>Siltstone</i>				Sandstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 82			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, some white chip (see picture 86)
✓ 84			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sandstone disaggregated, lots of it whole rock
✓ 86			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, disag sand, white chip
✓ 90			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	- " -
✓ 92			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	disaggregated sand, whole rock
✓ 94			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, white chips: calcite?
✓ 96			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, calcite, but less
✓ 98			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	whole rock, no calcite, disaggregated sandstones
✓ 100			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	calcite veins, slickensides
✓ 102			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	calcite pieces, but not a lot
✓ 104			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	swefite,
✓ 106			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	uncons. sand + sand pieces
✓ 108			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sandy (and washed away)
✓ 110			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 112			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	less sand
✓ 114			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	less sand
✓ 116			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 120			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 122			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sand almost gone
✓ 124			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 126			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	No sand, just some grains disintegrated sand grains
✓ 130			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 132			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Some sand grains slightly harder
✓ 134			40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sandst. disaggregated, only sand, few grains
✓ 136			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sand loose
✓ 138			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	sand loose
✓ 140			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	loose sand and few grains, frawite?
✓ 142			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 144			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 148			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	loose sand
✓ 150			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	loose sand
✓ 153			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	und grains get bigger loose sand
✓ 155			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 158			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	und cuttings small again
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / / 12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/Lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 161			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	some sand grains chips get harder slicenulines on mudrock
✓ 163			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	slicenulines
✓ 167			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	slicenulines
✓ 169			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	slicenulines
✓ 172			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	9
✓ 174			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 177			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

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Sample ID	From (mbsf)	To (mbsf)	Mudstone			Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures				Shape
182			50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	loose sand mostly few chips-sand
184			60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	big sand-chips get bigger? silt harder
189			40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	stichenline sandrock-chips loose sand
187			50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	sand-chips + loose sand
193			50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	calcite veins chips
195			50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	calcite veins
199			40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	chips disappear again, get smaller, calcite, more loose sand again
201			30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	loose sand, small mudrock-chips
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
207			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Sand almost gone
203			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
205			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
209			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	05	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

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 N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 173			65	Soft / Semi Hard	Yes / No	Angular/Round/Platy	35	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 196			50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 178			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 139			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 162			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	stichenlines, carbonate
✓ 230			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	carbonate,
✓ 312			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	105	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	some sand, hard chips!
✓ 311			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	105	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 206			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 288			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 261			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 170			75	Soft / Semi Hard	Yes / No	Angular/Round/Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 159			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
✓ 164			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

168

70

30

big chips

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Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
211			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Black chips with slickenlines
213			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Calcite vein, black chips,
217			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
215			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
219			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
223			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	very weak + muddy, chips almost dissolved; drill mud gel, cc veins
227			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
229			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	black chips are back
231			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	no black chips here
233			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
235			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
238			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	some big dark chips, rel. hard
240			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Some big dark chips, few cc vein-chips
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
255			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	○	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Few dark, hard chips, getting bigger? Few calcite veins
260			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	○	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Bigger, very hard dark chips slichuulines
250			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	no big dark chips here
253			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	few dark, hard rock chips
258			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	very few dark gray chips, rel. small
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

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N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

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Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
263			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	dark, hard chips 100% clay
265			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	no dark chips 100% clay, few calcite chips
267			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	few dark chips 100% clay
269			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	few dark rock chips 100% clay
272			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	few dark rock chips 100% clay
274			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	dark rock chips 100% clay
280			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	dark rock chips, hard 100% clay
282			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	dark chips 100% clay
284			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	no dark chips 100% clay
286			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	very few dark chips 100% clay
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. **Date:** / / **M2** **OBSERVER:**

Sample ID	From (mbsf)	To (mbsf)	Mudstone			Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures				Shape
289			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	○	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	very few dark clipp
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	

Wood/Lignite Fossiles abundances:
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