

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. Date: / /13 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
5Mw 3			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	cement, drill mud, ~40% prec from drill mud silty clay
5Mw			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	cement, semi-soft silty clay darker inside than outside
7SNW			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	was cement 40%, silty clay
9SNW			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	cement ~20% silty clay
12SNW			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	cement 5-10%
14SNW			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	cement pretty much gone, silty clay
16SNW			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 cement, silty clay
18SNW			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	silty clay
20SNW			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	TR CNT
22SNW			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	clay-rich VOLCANICLASTIC ON CLAYEN MATRIX
24SNW			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	clay-rich, calcite coatings?
26SNW			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	clay-rich, calcite or quartz coating?
28SNW			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 calcite/qtz grains
30SNW			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 calcite grains

Wood/Lignite Fossiles abundances:
 N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

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NO. 1 Date: 29/11/13 OBSERVER: ANA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 18SMW			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	GRNSH GY, SLTY CLST, ANG-RND CUT.
✓ 20SMW			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 ABOVE, TR CNT
✓ 22SMW			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	GRNSH GY - GY CLST, SILTY IN PLACES R VOLCANICLASTS ON CLAYEY MTX
✓ 24SMW			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	MD GY - GRNSH GY CLST, SILTY IN PLACES, F VERY FINE-FINE LOOSE QTZ, SB-ANG
✓ 26SMW			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 ABOVE R BLACK SPECKS (PLATY/FILKY) R LAMINATIONS
✓ 28SMW			95-100?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0-5?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, BUT W/ MORE LOOSE VERY FINE SAND; R BLACK SPECKS (PLATY/FILKY) R FORAMS (GLOBIGERINA?)
✓ 30SMW			95-100?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0-5?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, W/ RARE LT GY CRUMBLY CARBONATE COATING MATERIAL - ASH ALTERATION!
✓ 32SMW			95-100?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0-5?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, F VERY FINE-FINE LOOSE QTZ & CALCITE, ANG; R GY HARD VOLCANICLASTS, RND; ALTERATION BANDS
✓ 34SMW			95-100?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0-5?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MD GY - GRNSH GY SILTY CLST, FINELY SANDY IN PLACES, F VERY FINE-FINE LOOSE QTZ/CALC, F VOLCANICLASTS
✓ 36SMW			90-95?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	5-10?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, C FINE - MEDIUM LOOSE QTZ/CALCITE(?), R FINE LT BROWN FINE CRYSTALS, DK BROWN FLKY MAT
✓ 39SMW			90?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	10?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	GRNSH GY - LT GY, VERY SANDY CLST - SLTST, FINE - COARSE LOOSE SAND (QTZ + VOLCANICLASTS)
✓ 40SMW			95-100?	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0-5?	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MD GY - GRNSH GY CLST, SILTY IN PLACES, F LOOSE FINE QTZ + VOLCANICLASTS (CALCITE?)
✓ 41SMW			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	MD GY - GRNSH GY CLST, RARELY SILTY, LOOSE SAND, R LT GY ALTERATION SPECKS
✓ 42SMW			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 ABOVE, MORE SILTY.

Photo 4 *
 Photo 5 *
 Photo 4 *
 Photo 5 *
 Photo 4 *
 Photo 5 *
 Photo 4 *
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 Photo 4 *
 Photo 5 *

* CARBONATE ALTERATION OF ASH(?): LIGHT GREY - OFF WHITE CRUMBLY MATERIAL, COMMONLY APPEARS TO BE "COATING" CLASTS
 LOOSE GRAINS = LIKELY TO BE DISAGGREGATED

Wood/Lignite Fossiles abundances:
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NO. 2 Date: 29/11/13 OBSERVER: ANA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 43			100	Soft / Semi-Hard SFT-FRM	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	MD GY - GRNSH GY CLST, SILTY IN PLACES; C LOOSE SAND, QTZ, CC, R MEDIUM LOOSE VOLCANICLAST
✓ 44			100	Soft / Semi-Hard SFT-FRM	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 ABOVE, SLIGHTLY SILTIER
✓ 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	AS ABOVE, MORE CLAY-RICH, LESS LOOSE SAND (FEW)
✓ 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	AS ABOVE, SOFTER MDST, R FINE QTZ + CC
✓ 50			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 ABOVE, R FINE VOLCANICLAST R MEDIUM QTZ GRAINS
✓ 52			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	MD GY - GRNSH GY SILTY CLST, R LOOSE GRAINS
✓ 54			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 ABOVE
✓ 57			90-95	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	5-10	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MD GY - GRNSH GY SILTY-SANDY CLST, C LOOSE SAND, F FINE SDST R CLAST.
→ 59			80	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, MORE LOOSE/DISAGG. SAND GRAINS - NANOFOSSIL (PHOTO)
✓ 61			90	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, MORE CLAYEN, LESS SANDY
✓ 63			70	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	SANDIER THAN ABOVE, AS SAMPLE 57, C QTZ GRAINS
✓ 65			70	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	SANDY SILTST/CLST, AB LOOSE MD-CRS GRAINS (QTZ, VOLCAN.)
✓ 67			75-80	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	15-20	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	SILTY CLST, SANDY IN PLACES, C LOOSE FINE GRAINS (QTZ)
✓ 69			70	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi-Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, MORE LOOSE SAND GRAINS

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 3 Date: 29/11/13 OBSERVER: ANA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
71			80	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	MD GY - GRN SH GY SILTY CLST. SANDY IN PLACES. C LOOSE SAND FINE - COARSE (QTZ + VOLC.).	*
73			60-65	Soft / Semi Hard	Yes / No	Angular/Round/Platy	35-40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, AB. LOOSE VERY FINE - FINE SAND (QTZ + VOLC.), DEC. MEDIUM - COARSE GRAINS	
81			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	MD GY - GRN SH GY SILTY CLST. C LOOSE / DISAGG. SAND (QTZ + VOLC.), FINE, R CONS. POORLY SORTED SST.	*
83			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	AS ABOVE, F MEDIUM - COARSE QTZ GRAINS, R SOFT WHITE CLAYEY MATERIAL, R GLAUC.	* SL CALC
85			85-90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10-15	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, SLIGHTLY CALCAREOUS	* SL CALC
87			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	AS ABOVE, MORE LOOSE SAND, R BLACK MINERAL MATERIAL (LIGNITE?)	SL CALC
89			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	AS ABOVE, F VERY FINE - FINE SST (QTZ + VOLC.), CALC CMT. VERY RARE WHITE CLAYEY MATERIAL	* SL CALC
91			60-70?	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30-40?	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MD GY - GRN SH GY SILTY CLST. C SST MD - CRS QTZ + VOLC. SL CALC CMT. AB LOOSE FINE - MD SAND (QTZ);	SL CALC
93			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	AS ABOVE, F DARK MICA AGG. WITHIN SST; R FORAMS (GLOBIGERINA?); F OFF WHITE CALC MATERIAL	SL CALC
95			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	AS ABOVE, SST: C CRS VOLC. GRAINS FLOATING IN FINE - MEDIUM GRAINED MATRIX, CALC CMT	SL CALC
97			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	MD GY - GRN SH GY SILTY CLST. C LOOSE FINE - MD GRAINS (AB QTZ + VOLC.); F CRS LOOSE QTZ; R OFF WHITE CLAYEY MAT.	SL CALC R FORAM
99			70-80?	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20-30?	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE; SST: FINE, WELL SORTED GRAINS; F COARSE VOLC. (BASALT...); R WHITE MATERIAL (NON CALC) - ASH?	SL CALC
101			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	AS ABOVE, MORE SANDY; F SOFT, CRUMBLY OFF WHITE - LG GY CLAYEY MATERIAL (SL CALC) - ASH?	SL CALC
105			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	SILTY CLAY, LOOSE VERY FINE SAND, F VERY HARD COARSE VOLC., R OFF WHITE MATERIAL	V SL CALC

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 4 Date: 29/11/13 OBSERVER: ANA/ANJA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 107			85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	15	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GR - GRN SH GY SILTY CLST, LOOSE SAND
✓ 109			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LOOSE SAND LESS, MD GY - GRN SH SILTY CLAY, FEW CARBONATE GRAINS
✓ 111			90-95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5-10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE
✓ 113			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE, FEW CARBONATE VEINS, LOOSE SAND
✓ 115			55- 60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	45- 40	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LOTS OF LOOSE SAND, OTHERWISE AS ABOVE
✓ 117			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	STRONG DECREASE OF SAND GRAINS FLY CHIPS DOMINATE, GY-GRN SH GY VERY FEW CARBONATE VEINS
✓ 119			80/85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	15-20	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE
✓ 121			80/85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	15-20	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE, SLICKENLINED CARBONATE
✓ 123			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LESS SAND, MORE CLAYE, LESS SILTY
✓ 125			85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	20	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LIGNITE GRAINS? SAND IS BACK, COSTRACODE
✓ 128			70- 75	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30-35	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	BASALT CLASTS? OR LIGNITE? CARBONATE SLICKENLINED
✓ 130			70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	SILTY CLAY AND LOOSE SAND MD GY-GRN SH GY &
✓ 132			65	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	FEW LIGNITE GRAINS SILTY CLAY
✓ 134			65	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE

Wood/Lignite Fossiles abundances:

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NO. 5 Date: 29/11/13 OBSERVER: ANJA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/ lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
136			65-70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35-30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	RARE LIGHTWEIGHT GRAINS, LOOSE SAND MD GR - GRAY SILTY CLASTS, FEW CARBONATE CLASTS
138			60-65	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35-40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LOTS OF LOOSE SAND
140			75-80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	25-70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	OSTRACODE?
142			60-65	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35-40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	SOME SANDS FORM PEPPLES THIN BLACK LAM. WITHIN SST ←
146			59-60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	40-45	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LOTS OF SAND GRAINS
148			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	AS ABOVE
150			65-70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30-35	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	VOLCANIC CLAST (BASALT?) SUCCKENLINED CARBONATE
152			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	VOLCANIC CLASTS SUCCKENLINED CARBONATE FORAMINIFERA
154			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 CLASTS FOSSIL, VOLCANIC CLAST
156			65-70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30-35	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	SOME SAND GRAINS ARE MORE CONSOLIDATED AND SUCCKENLINED CARBONATES
158			65-69	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	35-40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	FEW MORE CONS. SST, BUT MOSTLY LOOSE SAND, FEW CARBONATES
160			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	MOSTLY LOOSE SAND CARBONATE VEINS? PETAL. CLAST? *
162			55	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	45	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	LOTS OF LOOSE SAND
164			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	VOLCANIC CLAST LOTS OF LOOSE SAND

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

* BLACK (BASALTIC) GLASS?
HARD AND BLACK MATERIAL,
CONCHOIDAL FRACTURE BUT
DOES NOT HAVE THE TYPICAL
VITREOUS GLOSS

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 6 Date: 29/11/13 OBSERVER: ANJA/ANA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
166			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	SLICKENLINES ON MUDROCKS VOLCANIC CLASTIC CLASTS LOOSE SAND
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	SLICKENLINES VOLC CLASTS LOOSE SAND MUSCOVITE XTALS
171			60 ₅₀	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40 ₅₀	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	CARBONATE CLAST LOOSE SAND * SST-ROCK FLOUR *
173			60 ₄₀	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40 ₆₀	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE SLICKENLINES
175			60/45	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40/55	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	CARBONATE VEINS LOOSE SAND * SST ROCK FLOUR
177			85-80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	15-20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	SLICKENLINES, CLAY-RICH MUDROCK R SST ROCK FLOUR
182			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	SLICKS, CLAY-RICH GREENISH-GRAY COATINGS, GRAINS GET HARDER
184			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	SLICKS, AS ABOVE MORE DRILL INDUCED DAMAGE
186			95-100	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	AS ABOVE
188			95-100	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	AS ABOVE
190			95-100	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	"
192			95-100	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	MD GR CLST, FIRM, SILTY IN PLACE, SL CALL, AB BIT DEFORMATION, * WHITE CARBONATE VEINS, LOOSE
197			95-100	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	AS ABOVE, WITH FEW DK GR CLST, FIRM-HARD, SL FISSURE, SLICKENLINES OBS. IN DK GR CLST
195			95-100	Soft / Semi Hard FIRM	Yes / No	Angular/Round/Platy	0-5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS SAMPLE 192, BUT SOFTER AND SL CRUMBLY

* ROCK FLOUR = BIT-INDUCED SANDSTONE DEFORMATION - SAND GRAINS CRUSHED INTO A WHITE FLAKY/POWDERY MATERIAL; SEEN AS BANDS ALONG BIT FRICTION SURFACES

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 7 Date: 30/11/13 OBSERVER: ANA

→ SUBSTITUTE BY TEXTURE?

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
✓ 199			100	Soft / Semi Hard FIRM	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GY CLST, COMMONLY SILTY, FIRM, SL CRUMBLY, SL CALC, F VERY FINE LOOSE SAND (QTZ?)
✓ 201			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GY CLST, RARELY SILTY, FIRM- MOD HARD, F WHITE CALC SPECKS
✓ 203			90-95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5-10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	CLST AS ABOVE, BUT HARDER AND MORE SILTY SST: LT GY, MOD CONSOLIDATED, POORLY SORTED, FINE-MD GRNS, VERY FINE-SILTY MIX, WHITE CNT, COARSE VOLLANCLAST *
✓ 205			95-100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0-5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GY - DK GY CLST, RARELY SILTY, FIRM-HARD, CRUMBLY, HOMOG. TR SST AND LOOSE KF - FINE SAND
✓ 207			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE OBS. LITTLE SUKENLINED FAULT ZONE (LAMINATED GOUGE).
✓ 209			95-100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0.5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	CLST AS ABOVE - C BIT DEFORMED LOOSE VERY FINE - FINE SAND
✓ 211			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GY - DK GY CLST, NOT SILTY, FIRM, SL CRUMBLY, VERY HOMOG. LOTS LOOSE SAND
✓ 213			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE, FEW LOOSE WHITE MATERIAL, SL CALC - VEIN FILLINGS?
✓ 216			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 ABOVE, FEW WHITE VEIN FILLINGS, CLST SILTY IN PARTS
✓ 218			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 ABOVE
✓ 220			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	CLST AS ABOVE LOT AS SAMPLE 203 AB VERY FINE LOOSE SAND
✓ 222			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	AS ABOVE FEW BULKY - SHAPED CAVINGS OF VERY HARD CONS. CLST
✓ 224			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	CLST MORE SILTY
✓ 226			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	MD GY - DK GY CLST, NOT SILTY, FIRM-MOD HARD, HOMOG. LOOSE SAND F VEIN FILLINGS

VOLCANICLASTIC SANDSTONE

* SANDSTONE: LIGHT GREY, MODERATELY ~~CONSOLIDATED~~ CONSOLIDATED, POORLY SORTED; GRAINS: MOSTLY TRANSPARENT WITH NO COLOUR (QUARTZ), FINE - MEDIUM, MOSTLY SUB-ANGULAR ANGULAR, COARSE ROUNDED DARK COLOURED VOLLANO-CLASTS FLOATING; MATRIX: WHITE, VERY FINE SAND-SILT; POORLY CEMENTED BY CARBONATED MATERIAL; SOME VISIBLE POROSITY.

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 8 Date: 30/11/13 OBSERVER: ANA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
228			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MDGY - DK GY CLST RARELY SILTY, FIRM - MOD HARD, HOMOG, FEW WHITE CALC SPECKS; F LOOSE VF SAND
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	CLST AS ABOVE BUT SOFTER, SL CRUMBLY C BIT DEFORMATION
232			95-100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0-5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	MDGY CLST, SILTY IN PARTS, SOFT - FIRM, CRUMBLY. BIT DEFM LOOSE VERY FINE SAND
234			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	CLST AS ABOVE. F VEIN FILLINGS WITH POSSIBLE SLIKENIMES (MAY ALSO BE BIT FRICTION)
237			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	MDGY - DK GY CLST RARELY SILTY, FIRM, SL CRUMBLY. F BULKY EAVINGS OF VERY HARD CLST. F WHITE CLAYEY MATERIAL
239			100	Soft / Semi Hard FIRM	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 ABOVE CLST VERY HOMOGENEOUS AND CRUMBLY
241			100	Soft / Semi Hard FIRM	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 ABOVE
243			100	Soft / Semi Hard FIRM	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	MDGY - DK GY CLST, SILTY - SANDY IN PARTS, CRUMBLY, FIRM. POSS. VEIN FILLINGS OF WHITE CLAYEY MAT.
248			100	Soft / Semi Hard FIRM	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	CLST AS ABOVE, BUT LESS SANDY/SILTY, AND FIRMER
250			100	Soft / Semi Hard FIRM	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 ABOVE. COMMON BIT DEFORMATION.
252			100	Soft / Semi Hard FIRM	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 ABOVE
259	2015.5		95-100	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	DK GY CLST, VERY HARD, VERY HOMOG. BLACK IN PLACES, VERY WELL CONS. SOMEWHAT VITRIOS.
261	2025.5		95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	VERY HARD CLST AS ABOVE SST; LT GY, MOD. WELL CONS, VERY FINE - FINE, MOD-POORLY SORTED
264	2035.5		95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard LOOSE	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE FEW SOFTER (FIRM) CRUMBLY CLST (PEEL)

CLAYEY / FLAKY WHITE MAT

SHINE IN FRACTURE SURFACE. VERY LARGE SIZE CHIPS CARINGS (?)

C LOOSE FINE SAND FOSSIL WITHIN CUT

* VERY HARD CLAYSTONE: DARK GREY, VERY HOMOGENEOUS, BLACK IN PLACES, VERY WELL CONSOLIDATED, CRYSTALLISED? SOMEWHAT VITRIOS AND TECTONIZED FRACTURE SURFACE(S) (STRIATIONS); LARGE SIZE CHIPS OF SUBANGULAR/BULKY SHAPE - WHEN BROKEN, A DARK COLOURED / BLACK RIM AROUND THE "CHIP" IS OBSERVED - THE CHIPS MAY BE IN FACT LARGE SIZE CLAST WITHIN AN ASH LAYER; THE DARK COLOUR RIM MAY RESULT FROM ASH ALTERATION. THIS MAY REPRESENT A VOLCANICLASTIC BRECHA.

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

* REDDISH CLASTS & THCA FROM DRILLING, NOT FOR ANALYSIS!

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 9 Date: 30/11/13 OBSERVER: ANDA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
266		2045.5	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	BIG, VERY HARD CEST AS ABOVE SST: LT GR, MOD - WELL CONS, SOME LOOSE SAND, SLICKENLINES
268		2055.5	90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard (LOOSE)	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	AS ABOVE, LOOSE SAND & SLICKENLINES COMMON,
270		2065.5	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	CLASTS ARE SMALLER, LOOSE SANDING, HARD SST AS ABOVE
272		2075.5	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	HARDEST CLASTS & LOOSE SAND SILTY CLAY CLASTS, SOME WHITE (CLAY - RICH) SILT MATERIAL, SMALLER CLASTS
274		2085.5	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	SEMI-HARD SST CLASTS, LOOSE SAND SILTY CLAY CLASTS
276		2095.5	85	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	AS ABOVE, SEMI-HARD ROUND SST & LOOSE SAND HARD SILTY CLAY GRAY LESS BIG CLASTS!
278		2105.5	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	RED CLASTS PROB. FROM DRILLHOLE ABOVE. SEMI HARD CLAY GRAY
281		2115.5	85	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	AS ABOVE, ROUND SEMI-HARD SST GRAIN, LOOSE SAND, HARD/SEMI HARD GRAY SST SILTY CLAY
283		2125.5	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	AS ABOVE, LESS LOOSE SAND, SMALLER SILTY-CLAY CLASTS,
285		2135.5	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	SEMI HARD SILTY CLAY, LOOSE SAND ONLY AS ABOVE
287		2145.5	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	LOOSE SAND, GRAY CLAYSTONE + SILTY CLAY, SEMI-HARD CLASTS
289		2155.5	95-90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5-10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	SILTY CLAY & CLAY, SLICKENLINES LOOSE SAND,
291		2165.5	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	SOFT TO SEMI SOFT CLAY, LESS SILTY-CLAY FEW HARD BIGGER CLASTS, PRETTY WEAK MATERIAL
296		2175.5	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	AS ABOVE, SEMI SOFT TO SOFT CLAY RICH CLASTS

Wood/Lignite Fossiles abundances:
N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 348 Cuttings Description Sheet (macroscopic)

NO. 10 Date: 30/11/13 OBSERVER: ANDA

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape			
298		2185.5	95-100	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	WEAK CLAY CLASTS, FEW FINE LOOSE SAND, HARD CLASTS ARE MOSTLY GONE, STICKY
300		2195.5	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	VERY SOFT, VERY CLAY RICH, GR CLAY, STICKY
302		2205.5	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	AS ABOVE, CLAY, SOFT, SMALL PELLETS, STICKY
304		2215.5	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	AS ABOVE, CLAY GRAY, SOFT DRILLING DIST. AS ALL ABOVE, STICKY
306		2225.5	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	AS ABOVE, STICKY
308		2235.5	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	AS ABOVE, STICKY
310		2245.5	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	WHITE CLAY AROUND GRAY CLAY GRAINS SLICEN LINES, FEW SEMI-HARD CLAY CLASTS, OTHERWISE STICKY CLAY
312		2255.5	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	STICKY CLAY, FEW LARGER CLASTS
314		2265.5	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	STICKY CLAY, GRAY COLOR VERY WEAK
316		2275.5	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	AS ABOVE, STICKY
318		2285.5	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	FEW SILTY-CLAY CLASTS, MORE CLAY CLASTS, SOFT CLAY, STICKY
321		2295.5	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	AS ABOVE, STICKY CLAY, FEW SILTY CLAY
323		2305.5	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	VERY HARD CLAST -> VOLCANIC GLASS? OTHERWISE STICKY CLAY
325		2315.5	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	STICKY CLAY, AS ABOVE
327		2325.5	100	SOFT (SEM)	Yes / No	ROUND	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	STICKY CLAY, AS ABOVE

Wood/Lignite Fossiles abundances:
 N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant