

Structural Geology Cuttings Observation Sheet

Exp.: 34P Site: C0002 Hole: P Date: 17.12.2013 Observer: Y4 + AUB Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
AUB 014SMW		>4mm	37	6	Slickerline	Silty claystone + siltstone	~60% of the sample is cement Most of 1-4mm is cement or BGA (50%)
		1-4mm	10	0		" + siltstone	
Y4 009SMW		>4mm	136	3	Slickerline	Silty sandstone	~30% cement, mostly silty sandstone
		1-4mm	95	1	Slickerline vein (pyrite)	↳	
AUB 016SMW		>4mm	46	5	Slickerline	Silty - claystone	~30% of siltstone cement Most of 1-4mm is cement or BGA (80%)
		1-4mm	16	0	Pumose part.	—	
MO 020SMW		>4mm	46	12	Slickerline	Silty sandstone	~30% formation cuttings ~70% cement 18.12.2013
		1-4mm	24	0			

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 11.12.2013 Observer: Y+AZB Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment	
AZB 18SMW		>4mm	118	20	Stichenlide	Siltstone	1 grain of silty sandstone, 50% of cement + 3 grain of carbonated rock Vein not ⊥ stichenlide (3 photos) (2 photos) very thin vein (one of those open + DiG) ↳ (3 photos) 1 of those fracture is open + G (5 photos)	
				1	Stichenlide + pyrite vein	"		
				1	vein + G (Gess and stichenlide)	"		
				1	G vein	"		
				1	Fractures + stichenlide	"		
				1	Stichenlide + pyrite of bedding "deformed"	"		
			1-4mm	31	3	Stichenlide	Siltstone	~ 50% of cement

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 18.12.2018 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
44 25 SMW		> 4mm	68	2	shichealine	silty sand & sandstone	
				1	bedding		
				1	vein (pyrite)		
		1-4mm	84	1	ash	S	
45 28 SMW		> 4mm	38	6	shichenhine	Silty claystone	30% of cement; 1 grain of carbonate rocks 8 grains of miltstone ! Skinning induced by drilling.
		1-4mm	16	0	-	"		5 grains of silty sandstone
46 30 SMW		> 4mm	35	2	shichenhine	Silty claystone	1 grain of miltstone (10% of cement) + 10 grains of shy claystone miltstone
		1-4mm	42	0	-	"	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: 19.12.2013 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MO 34SMW		>4mm	29	3	shikentine	sandy	25% formation cuttings 75% cements
		1-4	1	0	—	silty sand	
MO 35SMW 36		>4mm	36	1	shikentine	silty sand	90% formation cuttings 30% cements
		1-4	2	0	—		
ACB 32SMW		>4mm	14	2	shikentine	silty claystone	↓ 20.12.2013 2 grains of silty sandstone
		1-4mm	5	2	shikentine	"	
ACB 43SMW		>4mm	100	17	shikentine	silty claystone	8 grains of silty sandstone ~5% of cement
				1	shik. + fracture	"	
				1	Vein		
		1-4mm	100	3	shikentine	silty claystone	1 grain of ash.

Structural Geology Cuttings Observation Sheet

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Exp.: Site: Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
45SMW		>4mm	35	15	shale	silty clayst.	6 grains of silty sandstone ~ 5% cement
		1-4mm	75	5	"	silty clayst.	2 " " " "
47SMW		>4mm	104	5	vein	sand.	3 carb. (89 carb. sandy silt 15 sandstone
			3	shale	sandy silt		
		1-4mm	79	1	vein	sand.	66 sandy silt
			1	shale	sand.	13 sandstone	
49SMW		>4mm	124	1	vein	sand	116 sandy silt 8 sandstone
			5	shale	sandy silt.		
		1-4mm	118	1	vein	sand	
			2	shale	silt		

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: 7/1/2007 Observer: KB+MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
53	35m	4mm 1-4	77 33	1 3	Foliated veins	silt/clay	hard - Foliated looks metamorphic a clast? Original
56	5m	>4mm 1-4	83 65	14 0	stratified veins		light conglomerate pebble sized sands and ashy sands more common
61		>4mm	71 72	3 1	stratified vein		
58		>4mm 1-4mm	55 8	12 1	streaky striae	sandy siltstone	1 fossil
63		>4mm 1-4mm	36 0	5 0	streaky striae	sandy siltstone	20% cement
70		>4	100	36 3	streaky striae 3 carbonate		clay rich and deformed

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: 27/DEC/2013 Observer: KB+MO Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
KB 77	2185.5	74	100	36 3	shaken ven/cement		deformed clay rich cuttings big hard cuttings
KB 71	2162.5	74	100	40 2	shaken carbonate		Big hard cuttings
MO 76	2180.5	74 1-4	100 49	16 2	stickelme stickelme	sandy siltstone	
MO 81	2180.5	74 1-4	100 42	13 1 3	stickelme Ash stickelme	sandy siltstone	
ACB 83	2200.5	>4	100	32 4	shichenme "	silty claystone silty sandstone	24 grains of silty sandstone ↓ 27.12.13 1 grain + hj unit pinched + tectonic (photos) secondary lineation? 3

(1-4mm not studied)

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 002 Hole: P Date: 27.12 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
86SMW		>4mm 1-4mm	100 not observed yet	26 3	shikenshine "	silty clay sh. silty sandstone	16 grains of silty sandstone 1 nice stepped shikenshine surface → photos 2
109	2230.5	>4mm 1-4	105 not present	24	stratons	silty clay + cemented sands strong hard cuttings	↓ 28.12.2013 not strongly deformed V. large cuttings collapse?? some started fracturing
113	2250.5			22	stratons		strong hard cuttings silty clay + some sands
MO 107	2220.5	>4 1-4	100 10	30 1	shikenshine shikenshine	sandy shikenshine	
MO 111	2240.5	>4 1-4	100 5	26 0	shikenshine	sandy siltstone	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 1002 Hole: P Date: 28.12.2013 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
117 SMW	2270.5	> 4mm	219	15	striation	14 mud 1 sand	Sand 45, mudstone 176
		1-4mm	159	0			56 sand 103 mud
115 SMW	2260.5	> 4mm	100	16	shichenine	Silty clayst.	20 grains of milty sandstones
		1-4mm	100	1	shichenine on vein	"	17 grains of milty sandstones
				18	shichenine	"	
121 SMW	2280.5	> 4mm	100	24	shichenine	Silty clayst.	8 grains of milty sandstones
				1	system of veins + shichenine	"	Photos
		1-4mm	100	18	shichenine	"	10 grains of milty sandstones

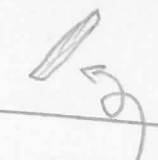

Structural Geology Cuttings Observation Sheet

Exp.: ³⁴⁸ Site: *cow* Hole: *P* Date: _____ Observer: _____ Summary: _____

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
<i>FF</i> 123 <i>SMW</i>	2230.5	> 4mm 1-4mm	103 86	5 2	striation striation	mudstone "	25 sand 58 mudstone 14 sand 52 mudstone
<i>MO</i> 125 <i>SMW</i>	2300.5	74mm 1-4mm	100 35	30 1	striation striation	mudstone	↓ 23.12.2013
<i>MO</i> 127	2310.5	74 1-4	100 13	11 0	striation	mudstone	
<i>MO</i> 129	2320.5	> 4mm 1-4	100 30 5	11 0	striation	mudstone	
<i>RB</i> 131	2330.5	74	46 130	46	striations	mudstone + some sandstone	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 0002 Hole: P Date: 29/DEC/2013 Observer: MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MD 133 133 5mm	2340.5	>4 1-4	41 21	8 0	striaation	sandy mud	
MD 136	2350.5	>4 1-4	56 2	11 0	striaation	sandy mud	 ← this type were observed in this section
TY 141 smw	2370.5	>4 1-4mm	112 121	5 1	striaation vein	mud mud	38 sand, 74 mudstone
				1	vein		34 sand 85 mudstone
AB 138 smw	2360.5	>4mm 1-4mm	71 100	11 7	striaation "	filty clay " "	11 grains of milky sandstone 8 " " " "

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 10021 Hole: P Date: 25.12.2013 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 143 SMW	2380.5	> 4mm	75	15	dichonite	Silty clayst.	15 grains of sandstone
				1	catclastic band	Silty sandst.	
				1	vein	Silty clayst.	
		1-4mm	100	20	dichonite	Silty clayst.	6 grains of sandstone
YY 145 SWW	2390.5	> 4mm	53	2	catclastic band	Sand.	11 sand 42 mudstone (1 cement)
		1-4	73	1	↳	↳	13 sand 60 mud
YY 151 SWW	2410.5	> 4mm	115	1	vein		40 sand 35 mudstone
				1	catclastic band		
				1	striation		
				1	fault & detrital sand		
		1	laminated sand.		step-wise fc, det. band, black-colored striation		
		1-4mm	85	1			

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 60021 Hole: P Date: 23.12.13 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 143 SMW	2400.5	>4 mm	28	11	Shichenhu	Silty clayst	4 grains of sandstone (1 photo)
				1	Vein + shichenhu line	"	
		1-4 mm	57	1	Shichenhu	Carbonate-rich grain	
				9	Shichenhu	Silty clayst.	
ACB 155 SMW	2420.5	>4 mm	96	19	Shichenhu	Silty clayst.	△ 2 grains of CEMENT 20 grains of silty sandstone (4 photos)
				2	"	Silty sandst.	
		1	fault gouge + vein				
		1-4 mm	76	16	Shichenhu		7 grains of sandstone
				2400.5	89	4	really clay striation	clay mud clay	18 sand, 51 mudstone
		86	13			really clay & thin		25 sandstone 59 mudstone

Structural Geology Cuttings Observation Sheet

Exp.: 34 Site: 10002 Hole: P Date: 23.12 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 153SMW	2440.5	>4mm	57	9	Stichenline	Silty clayst.	13 grains of sandstone; 1 grain of volcanic tuff? (1 photo)
				2	"	Silty sandst.	
				1	vein	Silty clayst.	
				1	vein + stichenline	"	
		1-4mm	50	9	Stichenline	"	15 grains of sandstone, 3 grains of volcanic tuff
				3	"	Silty sandstone	
YT 161Saw	2450.5	>4mm	94	6	Striation	Silt	43 sand, 51 mud (10% vol → sand)
				1	catclay band	Sand	
		1-4mm	95	2	Striation	clay mud	43 sand, 54 mudstone
				1	scaly clay	"	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 0102 Hole: P Date: 30/DEC/2013 Observer: MOKB Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MO 163	2460.5	>4 1-4	100 43	19 3 1	stickentire scaly clay stickentire	sandstone mudstone	36 sand 69 mudstone
MO 165	2470.5	>4 1-4	80 40	16 4 2	stickentire scaly clay stickentire	sandstone mudstone	30 sand 70 mud
MO 168	2480.5	>4 1-4	100 100 21	19 2	stickentire stickentire	sandstone mudstone	27 sand 70 mud

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
44 170SMW	2430.5	> 4	92	2	scally clay	clay	29 sand 68 mudstone
		1-4mm	103	1	stratification	sand	
				1	vein	mud.	
				2	scally clay	clay	39 sand, .66 mud
172SMW	2500.5	> 4mm	68	7	Shchenkin	lit. clay	(2) grains of sandstone; 1 grain of volcanic tuff Photos 2 Photos 1
				3	"	sandstones	
				1	Catalan	band	
		1-4mm	74	0	0	lit. clay	8 grains of sandstone, 4 volcanic tuff, 1 carb. rich material
44 174SMW	2510.5	> 4	52	4	scally clay	clay	17 sand 35 mudstone
		1-4mm	56	1	stratification	mud.	
				9	scally clay	sc. clay	5 sand 51 mudstone

↓ 30.12.2013

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 30.12 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
175SMw	2530.5	> 4mm	58	5	shaly thin	sandstones	△ 2 grains of cement 16 grains of sandstone in total
				12	"	clayey silst.	
				1	"	carbonate - rich grain	
		1-4mm	40	6	"	silty clayst.	3 grains of sandstones
				2	"	carbonate rich grain	
				2	"	sandstones	
176SMw	2520.5	4 >	85	4	striation	clay	35 sand 50 mud
				3	scally clay	mudstone	
				4	scally clay	clay	
		1-4mm	46	1	striation	clay mud.	8 sand, 3 mud

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C002 Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 181 SML	2540.5	>4 mm	74	20	olichenic	Siltstones	4 grains of volcanic tuff; 14 grains of sandstones
				5	"	Sandstones	
		1-4 mm	56	4	"	Siltstones	
				1	"	Sandstones	
TT 183 SML	2550.5	>4 mm	58	5	scaly clay	clay	19 sand 39 mud.
				1	striations	mud	
		1-4 mm	64	1	Det. band	sand	
				3	scaly clay	clay	
				1	Det. band	sand	
				41			23 sand 41 mud.
ACB 187 SML	2570.5	>4 mm	100	25	Siltstone	Silty clayst.	2 grain of volcanic tuff, 23 grains of sandstone
				6	"	Sandstone	
				2	Vein and oolitic	Sandstone	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 30.12.10 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
YY 185SMW	2560.5	X4	100	4	stratified	mud	56 sand 44 mud.
				8	scaly clay	clay	
				2	vein	mud	
				1	det. band	sand	
		1-4	151	20	scaly clay striation	clay mud.	31 sand 120 mudstone.
				7			
AUB 187SMW	2570.5	1-4 mm	100	3	slide-line	filty clayst.	20 grains of sandstone, 3 of volcanic tuffs
				1	"	sandstone	
				1	veins	sandstone	
RB 189	2580.5	74	164	52	48 striated	striated	4 scaly
				4	4 scaly	web structure - sandy	48 striated
				60		siltclay	
				48		silt sand	

!>4mm Below

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 0002 Hole: P Date: 31/DEC/02 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MO 191	2590.5	>4 1-4 1-4	94 7 21	21 4 1	stickentne scaly clay stickentne		28 sand 66 silt
MO 196	2601.5	>4 1-4	92 12	12 0	stickentne		60 sand 40 silt
MO 200	2620.5	>4 1-4	100 12	14 1 1	stickentne vein (calcite) stickentne		56 sand 44 silt
KB 197 198	2610.5	>4	114 111 37 Total =	10 11 37 114	stickentne scaly clay sand		67 sand 37 sand

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: P002 Hole: P Date: 21 Dec 2013 Observer: KB MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
KB 208	2650.5	1-4 4-7	100	37 10	stratons scaly		14 sands
KB 204	2640.5 2640.5	>4	100	2 12	vein stratons		71 silts clay 17 sands
KB 217	2630.5	>4	95	22 3 1	stratons scaly sand		93 silts clays 7 sands
← MD 213	2670.5	>4 1-4	100 13	19 1	stibolite stibolite		sand # 21 silt 79
MD 210	2660.5	>4 1-4	100 34	19 3	stibolite stibolite		sand 35 silt 65

Structural Geology Cuttings Observation Sheet

Exp.: 398 Site: S002 Hole: P Date: 31/10/2010 Observer: KB MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
KB 215	2680.5	4-10 >4	100	49 1	striae striae scaly clay veins		9 scaly clay 8 quartz sands scaly clay
MD 219	2700.5	>4 1-4	100 21	9 1	striae striae		31 sand 69 silt
MD 221	2710.5	>4 1-4	100 51	9 5 4 2	striae scaly clay striae scaly clay		52 sand 42 58 silt

Structural Geology Cuttings Observation Sheet

Exp.: 398 Site: 002 Hole: P Date: 31 Dec 2013 Observer: MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MD 229	2740.5	>4	64	19 4	stickentne staly clay		25 sand 39 silt
		1-4	5	0			
MD 224SM	2720.5	>4 mm	75	19 1 1 2 10 3	stickentne " Cochlearitic band Minor fault stickentne veins	Silty clayst Sandstone " Vesicular buff? Silty clayst Sandstone	13 grains of sandstone 31.12.2013 1 grain of cement 5 grains of sandstone
		1-4mm	62				

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 2268 MW	2730.5	>4 mm	55	14	dichentine	Silty clayst.	6 grains of sandstone
				1	vein + dichentine		The dich. surface cut a pool → photos 2
		1-4 mm	61	2	dichentine	Silty clayst.	3 grains of sandstone
				1	vein + dichentine	"	
KT 2315 MW	2750.5	>4	174	5	scally clay	clay	29 sand 1.4 mud
				1	striation	mud	
				1	normalite syc	s	
		1-4 mm	100	13	scally clay	clay	18 sand 82 mud
			4	vein	mud		
				1	striation	s	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 31.12.2023 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 233SMW	2760.5	>4mm	71	13	Shichenhine	Silty clayst.	4 grains of sandstone
				2	Veins	"	Carbonate vein
		1-4mm	80	13	Shichenhine	"	4 grains of sandstone, 1 of cement
44 235SMW	2770.5	X	50	9	scally clay	clay	16 sand + mudstone
				6	stratification	mud.	
		1-4mm	85	30	scally clay	clay	12 sand 73 mud
				3	vein	sand	
ACB 237SMW	2780.5	>4mm	71	20	Shichenhine	Silty clayst.	
				4	veins	"	
		1-4mm	46	7	Shichenhine	"	
				1	vein	"	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 6002 Hole: P Date: 31.12.2013 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
44 240 SW	2790.5	>4	160	11	scally clay	clay	18 sand 142 mudstone
		1-4	100	28	stratification vein	mud	
				2	scally clay	clay	12 sand 88 mudstone
					vein	mud	
ACB 242 SW	2800.5	>4 mm	52	14	Shichen line	filter clayst.	5 grains of sandstone
		1-4 mm	50	1	vein	"	
				7	Shichen line	"	
				2	veins		
44 244 SW	2810.5	>4	97	9	stratification	mud.	18 sand 59 mud.
				9	scally clay		
				2	vein	sand	
				2	det. band.		
		1-4	88	11	scally clay	mud	11 sand 77 mud.
				2	vein	sand	

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
YY 247 SWW	2820.5	4 >	89	18 8 1	scaly clay striation vein	) mud	14 sand 75 mud.
		1-4	100	43 2	scaly clay vein		clay sand.	14 sand 86 mud
YY 249 SWW	2830.5	4 >	106	5 9	striation scaly clay	) mud	15 sand 91 mud
		1-4	120	33 1	scaly clay vein		mud sand	12 sand 108 mud.
MO 251	2840.5	4 >	65	15 1	streaky scaly clay	mud	18 sand 47 silt
		1-4	45	1 2	streaky scaly clay		

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: ^{Coast} Hole: P Date: 1/1 2014 Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
KB 281	2870.5	4 >	(37+11 +16 +8) = 72	11 16	striations scaly		8 sands 37 silty clays/clay
MD 254	2850.5	74 1-4	60 24	11 1	striation	mud	18 sand 42 silt.
KB 309	2163 (rainy)	774	160	41 31 striation 10 scaly 1 vein	striation		10 scaly clay 70 silty clay 38 sands collapse material
MD 256	2860.5	74 1-4	79 23	20 0	striation	mud	9 sand 58 silt.

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 0002 Hole: P Date: 1 Jan 2019 Observer: MOKB Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MO 259	2870.5	> 4 1-4	53 25	21 1 1	striation vein (pyrite) striation	mud	28 sand 25 silty
MO 261	2880.5	> 4 1-4	90 25	23 1 2 3	striation scaly clay veins (pyrite?) striation	mud	18 sand 72 silty
KB 265	2900.5		47 43	22 1	striation streaked scaly vein		5 scaly 16 silty clay 7 sand
MO 263	2890.5	> 4 1-4	41 21	13 0	streak-line	mud	8 sand 32 silty

KB 283 2980.5 > 4
117 57 1 streak-line vein 14 sand 55 silty clay

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: 002 Hole: P Date: 1 Jun 2014 Observer: KB MD Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MD 267	2310.5	>4 1-4	100 0	13 0	shickentine	mud	17 sand 83 silt
MD 269	2320.5	>4 1-4	160 31	22 1 2	shickentine shickentine sandy clay	mud	28 sand 76 silt
ACB 271 SMW	2330.5	74mm	77	20	shickentine	Silty clayst.	<p>1 grain of carbonate rock (seems very shallow, platform carbonate)</p> <p>3 photos</p> <p>1 grain of volcanic tuff?</p> <p>very thin 4 grain of sandstone</p>
				1	Cataclastic band	Sandstone	
			photo ←	1	Vein	"	
				1	shickentine	"	
			photo ←	1	Vein + shickentine	Silty clayst.	
			photo ←	1	Pyritic vein	"	
				1	Vein	Silty "	
		1-4mm	50	4	shickentine	" "	

Structural Geology Cuttings Observation Sheet

Exp.: 368 Site: 6002 Hole: P Date: 1/12/11 Observer:

Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
YY 2775mW	2350.5	>4	95	2	vein	) mud clay	25 sand, 50 mud
		1-4	85	4	striations		
				7	scally clay	↳	18 sand, 67 mud
AUS 2738M W	2340.5	>4mm	113	22	shichenine	filty clayst.	14 grains of sandstones, 2 of volc. tuff
		1-4mm	59	7	shichenine	" -	3 grains of sandstones
				3	vein	" "	Smear slide of one of the grains.
				1	vein + shichen.	" -	
YY 2795mW	2360.5	>4	97	6	striation	) mud sand	18 sandstone 79 mud.
				2	scally clay		
				1	vein		
		1-4	75	13	scally clay	mud	30 sandstone 45 mud
				1	def. band	sand	
				1	striation	mud	

Structural Geology Cuttings Observation Sheet

Exp.: Site: Hole: P Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
2858 MW	2330.5	>4 mm	75	17	shichen hie	Silty clayst	3 grain of sandst, 2 of volcanic tuff
		1-4 mm	58	1	Silly fabric	"	2 photos
				9	shichen hie	"	4 grain of sandst, 2 of vol. tuff
				1	vein		
YY 2895 MW	3000.5	>4	72	6	scally clay	) mud	
				2	striation		
		1-4	86	15	scally clay	"	14 sand 52 mudstone
				3	vein	sand	
				2	striation	mud	
YY 2935 MW	3020.5	>4	90	6	striation	) mud	18 sand, 52 mudstone, 1 cement
				16	scally clay	) mud	← think flat-shaped cuttings
		1-4	86	3	vein.	sand	21 sand, 65 mud.
				2	striation	) mud	
				11	scally clay	) mud	

Structural Geology Cuttings Observation Sheet

Exp.: Site: Hole: **P** Date: Observer: Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
231 SMW <i>AGB</i>	3'010.5	>4mm	80	16	Schistose	Silty clayst.	5 grains of sandstone
		1-4mm	67	2	Normal fault system	volcanic tuff?	(Impossible to make a photo, too small!)
				6	Schistose	Silty clayst.	5 grain of sandstones, 4 of volcanic tuffs
236 SMW	3'030.5	>4mm	76	2	Seely cleavage	Silty clayst.	2 grains of sandstones, 5 of volcanic tuffs. ⚠ 1 grain of cement!
				1	Vein	Carbonate-rich rock	
				21		Schistose	Silty clayst.
		1-4mm	61	9	"	"	4 grain of tuffs, 5 of sandstones
298 SMW <i>YY</i>	3'040.5	>	78	6	striation	) mud	13 sandstone 65 mudstone
				1	vein		(incl. 13 think dirty mud)	cuttings
				4	scally clay		14
		1-4	114	1	det. band	sand	52 sand 62 mudstone
				12	scally clay	mud	

Structural Geology Cuttings Observation Sheet

Exp: 348 Site: 0002 Hole: P Date: 1.1.2014 Observer:

Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
ACB 300 SMW		>4mm	88	16	Slickensides	Silty claystones	3 grains of sandstones, 4 volcanic tuff
				1	Vein	" "	
				1	Sealy cleavage	" "	
				1	Vein + slickensides		
		1-4 mm	70	3	slickensides	Silty clayst.	4 grains of sandstones, 3 volcanic tuff
				1	minerals "	Sandstone	
YY 725 MW		>4	100	5	striation	mud	34 Sandstone 66 mud
				1	vein	) Sand	
		1	det. band				
		1-4	100	2	striation	) mud.	54 Sand 46 mud
1	vein.						

Structural Geology Cuttings Observation Sheet

Exp.: 348 Site: C0002 Hole: P Date: 21.1.2014 Observer: MO KB Summary:

Cuttings No.	depth (mbsf)	size (mm)	observed grain#	grain# with deform. structure	structure ID	lithology of grain	Comment
MO 74		74 1-4	181 35 31	54 5	stickentire stickentire	mud	61 sand 120 silt
MO 77		74 1-4	241 12	52 2 1	stickentire carbonate vein stickentire	mud	92 sand 149 silt
MO 82		74 1-4	242 52	50 0	stickentire —	mud	89 sand 153 silt
MO 85		74 1-4	236 5	64 0	stickentire	mud	48 sand 188 silt

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