

Structural Geology Observation Sheet

Cracked mudstone pieces  
Drilling-induced deformation throughout

Exp.: 358 Site: C0002 Hole: T Core: 1 Observer: KU

Summary:

0~9  
WR

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → *1* Bottom → *-1*	top	bottom	az./trend	dip	
1		11	26		~15											coherent pieces of mudstone and cement in the matrix of drilling mud
		26	31.5		~5.5											cracked mudstone piece
		31.5	45.5		~14											drilling-induced breccia highly brecciated / fragmented mudstone in the matrix of drilling mud.
		45.5	47.5		~2											biscuitted mudstone
		47.5	63		15.5											cracked mudstone piece drilling-induced breccia at the top and marginal parts of mudstone piece.
CC		5	18		~13											highly brecciated and fragmented mudstone drilling-induced
		18	31		~13											cracked mudstone piece in places brecciated cracks filled w/ drilling mud
		31	35		~4											cracked mudstone injected by reddish brown material (possibly cement showing bright X-ray CT image w/ higher CT number relative to surroundings)
		35	42		~7											drilling-induced breccia highly brecciated / fragmented mudstone in the matrix of drilling mud
		42	47													PAL
		47	51		~4											cracked mudstone w/ drilling mud

Structural Geology Observation Sheet

intense drilling-induced deformation throughout  
 Last Update 3/June/2011  
 No. \_\_\_\_\_

Exp.: 358 Site: C0002 Hole: T Core: 2 Observer: KU Summary: mudstone pieces, one piece including thin calcite veins

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → *1* Bottom → *-1*	top	bottom	az./trend	dip	
1		0	13													WR
		13	18.5		5.5											mudstone pieces one mudstone piece slightly cemented w/ calcite including short and tiny calcite veins. CT number is nearly the same as other pieces
		18.5	24.5													WR
CC		0	13.5		~13.5											mudstone pieces, drilling-induced breccia, and disaggregated mudstone. aligned burrows roughly showing vertical bedding
		13.5	20.5		~7											piece of cementd surrounded by drilling induced breccia
		20.5	38		~17.5											disaggregated mudstone
		38	43		5											DAL
		43	47		4											disaggregated mudstone.
		47	51		4											WR


Structural Geology Observation Sheet

one piece showing calcite cementation and calcite veins

Exp.: 358 Site: C0002 Hole: T Core: 3 Observer: KU

Summary: intense drilling-induced deformation throughout

No. \_\_\_\_\_

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake ( $\leq 90$ )	from ( $\pm 1, 90$ or $270$ ) * Top $\rightarrow$ *1* Bottom $\rightarrow$ *1*	top	bottom	az./trend	dip	
1		0	9		9											rounded ~ subrounded mudstone fragments in the matrix showing higher CT number than mudstone piece below (9-15cm, WR) dark halos surround mudstone fragments possible cement
		9	15		6											WR
		15	29		~14											mudstone pieces and disaggregated mudstone in the drilling mud one piece cemented w/ calcite 1-2 mm-thick, planar to curvilinear calcite veins
CC																 matrix showing high CT number of ~2500-2900
CC		0	7		~7											cracked mudstone and drilling-induced breccia
		7	10		~3											disaggregated mudstone
		10	16		~6											cracked mudstone and drilling-induced breccia
		16	26		~10											mudstone pieces and disaggregated mudstone
		26	~31.5		~5.5											drilling-induced breccia and cracked mudstone
		31.5	39		~7.5											disaggregated mudstone and drilling-induced breccia
		39	44		5											PAL