CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : A Core : 1X 2X & 3X Observer : Shan Summary:

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	
1X 1	bedd	17	17									0	97			
2																
3	bedd	8	8			90	0	180	3			0	106			
	"	89	85			270	10	0	0							
	"	68	68			270	2	180	4							
5	"	10	10			270	1	0	0			0	142			
	"	78	78			270	0	180	2							
6	"	76	76			270	1	180	1			0	135			
	"	88	88			270	1	180	0							
	"	98	98			270	0	0	2							
7	"	16	16			270	0	180	1			0	142.5			
C.C.	bedd	14.5	14.5			90	0	180	6			0	22			
2X 1	bedd	22	22			90	7	0	6			0	48			Sections 2 & 3: no structures
3X 1	no structure															
3																
4	bedding	30	30			270	1									

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : L Core : 4X Observer : F&S Summary:

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	bedd	5	5			270	2	0	1			0	9			
3	"	114	114			270	1	180	1			111	118			From X-CT scanned image : N45°E, 55°NW (orientation); open; seems to offset a burrow subparallel to the core axis.
	Fracture	86	93			45	0	315	55			86	93			
4	bedd	15	15			270	1	0	1			5	21			
	"	79	79			90	6	180	8			73	84			
	"	118	118			90	1	0	3			113	121			
5	"	102	102			270	5	0	0			99	107			
6	"	10	10			270	1	0	0			2	32			
	"	38	38			270	2	0	3			35	53			
	"	103	103			270	1	180	2			96	113			N65W, 82HE
7-8	& c.c															Blocky or sandy appearance.
4	N.fault	8	20			115	0	25	82			5	20			1 N fault → N115°E-82°NE from CT images (Normal fault)
3	fract.	120	125			15	0	285	65			120	125			1 fracture N015°E-65NW from CT scan image analysis

CHIKYU Operation

Last Update 3/June/2011

No.

Structural Geology Observation Sheet

Exp.: 338 Site: C0002 Hole: L Core: 5 & 6 Observer: OF & YH Summary:

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	
5X 1	bedding	41	41			90	6	0	0			25	79			
2	bedding	37	37			270	7	0	2			33	69			
4	bedding	6	6			90	4	0	0			0	8			
5	bedding	107	107			270	6	0	1			81	123			
6	bedding	53	53			90	9	180	9			0	75			
7	bedding	21	21			90	0	180	5		→ 180	0	75			
8																
9	bedding	66	66			90	0	270	1			65	72			
CC	bedding	16	14			270	11	180	18			6	17			local "steep" dip angle
6X 1	bedding	52	52			90	2	0	2			51	55			
2	"	18	18			270	1	0	1			13	22			
	"	115	115			90	2	0	1			112	115			
3	"	9	9			270	5	180	1			0	10			
5	"	47	47			90	2	0	1			44	58			
	"	60	60			90	0	0	5			58	62			
6	"	58	58			270	2	0	4			55	64			
	"	119	119			90	4	180	1			86	123			
7	"	37	37			270	5	0	3			28	75			
	"	67	67			270	4	0	0							
	"	113	113			273	6	0	0			98	140			

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : I Core : 6 & 7 Observer : OTSUKI Summary:

	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	
6X	8	bedd	17	17			90	5	0	7			14	66			
		"	55	55			270	1	180	2							
	9																
	C.C																
7X	1																
	3	bedd	17	17			270	2	180	2					7	29	
		"	74	74			270	4	180	10					73	111	
	C.C	"	10	10			90	0	0	3					5	25	
8X	1	bedd	3.5	3.5			90	0	180	10					3.5	7.5	
	2	"	5	5			90	3	180	1					1	18	
		"	11	11			90	3	180	2							
		"	67	67			90	5	0	0					59	70	
		"	103	103			270	2	0	1					101	106	
	4	"	62	62			90	1	180	1					58	63	
	5	"	77	77			90	16	0	5					64	87	
		"	125	125			90	7	0	7					91	126	
	6	"	53	53			90	0	0	0					54	60	
		"	128	128			270	1	0	1					102	141	

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : L Core : 8-9 Observer : OT & SH Summary:

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	
8X 7	bedd	5.5	5.5			90	6	0	0			0	16			
	"	95	95			90	7	0	1			93	102			
8																
9	bedd	27	27			90	0	180	1			0	32			
C.C.																
9X 1	bedd	16	16			90	0	0	24			10	20			slump zone. soupy or fracturing appearance.
2-4																
6	bedd	20	20			90	0	180	1			0	26			
7	"	83	83			270	1	0	5			55	87			
8																no visible structure.
C.C.	bedd	31				90	0	180	0			31	36			

CHIKYU Operation

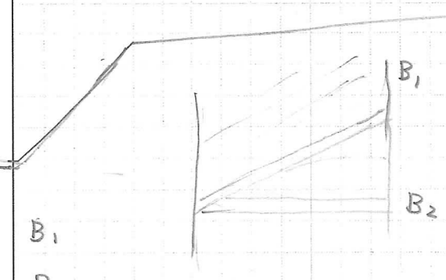
Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : J Core : 10, 11 & 12X Observer : T-S-K Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom →"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
10X 1	bedding	33	33			90	1	0	8			10	48			
2-4																biscuiting, no visible structures
5	bedding	91	91			270	11	0	4			71	97			
	"	20.5	20.5			270	2	0	0			14	22			
7,8 & cc.																biscuiting or soupy
11X 1	bedding	75	75			270	3	180	6			70	75			
2	/															
3	/															
5	/															
6	/															
cc	/															
12X 1																
2	bedding	21	21			270	11	180	2			2	26			
	"	24	24			90	11	0	0							
	"	90	90			270	5	0	2			72	95			
3	"	43	46			270	2	0	1			37	46			
	"	81.5	83			90	0	0	1			79	88			
4	"	23	23			270	30	0	4			22	26			
	"	114	114			90	0	0	0			113	116.5			



CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp.: 338 Site: C0002 Hole: ZJ Core: 12 Observer: S-K Summary:

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	
12X 5																
6	bedd	7	7			90	0	0	0			3	9			
	"	51	52			90	4	180	2			50	55			
7																
8	bedd	13	13			90	6	180	2			7	19			
	"	11	11			90	4	180	1							
	"	31	36			270	10	0	2			29	38			
	"	61.5	63.5			90	8	180	14			61.5	65			
C.C.	"															

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp.: 338 Site: C0002 Hole: L Core: 13 Observer: KO + OF Summary:

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)	bedding	34	34			270	1	180	1			31,5	38,5			
(2)	"	62	62			270	4	0	0			57	62			
(3)	"	11	11			270	2	180	30			8,5	12,5			doubtful (drilling disturbance ?)
	"	41	41			270	10	180	4			39	43			
(4)	"	79	79			90	5	0	24			78	80,5			
(5)	nothing															
(6)	bedding	74	74			90	10	180	13			52	78			
(7)	nothing															
(CC)	nothing															

CHIKYU Operation

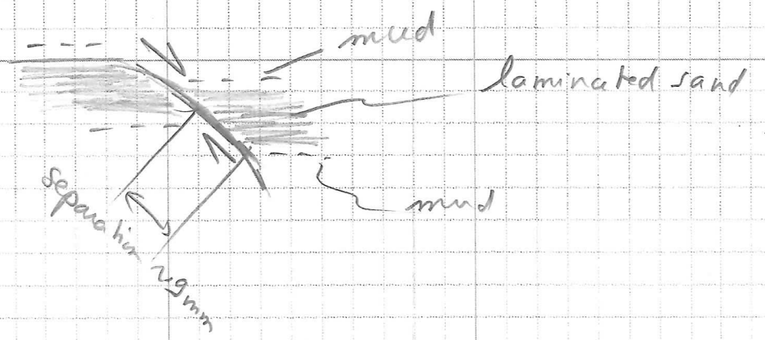
Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp.: 338 Site: C0002 Hole: L Core: 14X Observer: OF Summary:

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																biscuiting throughout
2	bedding	38	38			90	5	180	5			36	48			
	"	69	69			90	8	180	2			67	77			
4	all biscuits															
5	bedding	88,5	88,5			90	3	180	8			84	93			
6	bedding	58	58			90	0	0	3			56	62			
7	bedding	90	90			270	6	0	8			59	92			
8	"	89	89			90	3	0	8			86	91,5			
CC	/															
15X																
1	/															
2	bedding	49	49			90	17	0	4			46	51			
3	/															
5	bedding	31	31			90	4	180	1			27	35			
6	NF	46	49			90	51	180	2			46	50			
	bedding	48	48			90	0	0	6			"	"			
7	nothing															
8	bedding	42	42			270	7	0	6			41	44.5			
-	"	68	68			90	0	0	2			67.5	73			
9	"	46	46			270	2	0	0			42	49			
10	"	37	37			270	6	0	11			27	39			
C.C.																



CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp.: 938 Site: C0002 Hole: L Core: 16X Observer: YS. KO Summary: few bedding surface

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.																No structure to discribe.
2.	Bedding	43	44			90	0	0	3			40.5	46.5			
	〃	79	79			270	5	180	2			70	81.			
	〃	112	112			90	4	180	8			110	114			
3.	〃	49	49			90	5	180	1			39.4	51			
4	〃	76	76			270	6	0	2			70.5	78.5			
	〃	108	108			90	1	0	2			106.5	111			
5	Bedding	29	29			90	1	180	4			21	32.5			
	〃	67	67			90	2	180	4			59	70.5			
6.	〃	12.5	12.5			270	0	0	2			4	15			
	〃	70	70			90	2	0	4			67	72			
7																Nothing to discribe
8.	bedding	24	25			90	0	180	7			18	25			
	〃	86	86			90	0	180	2			84.5	90.5			
cc.	bedding	59	59.			90	5	180	4			55	62			

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp.: 338 Site: C0002 Hole: C Core: 17X Observer: YS, KO Summary:

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.	Bedding	105	105			270	2	180	4			102	110			
2.																Nothing to discribe
3.																
4																IW
5	Bedding	106	106			90	3	0	2			104	110			
6.	Bedding	28	28			270	3	180	3			22	30			
7.	〃	23	23			90	10.	180	12			20	26			doubtful
	〃	27.5	27.5			270	3	0	10			26	31			
8.	Bedding	32.5	32.5			90	7	0	7			32	36.5			
	〃	56	56			270	4	0	6			56	63			
9.	Bedding	2	2			270	8	0	0			0	4			
	〃	44	44			90	3	0	7			42	49			
CC.																Nothing to discribe

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : L Core : 18X Observer : OF. KO Summary:

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	bedding	47	47			90	2	0	1			43	50			
	"	81	81			90	4	0	1			80	83			
4.	bedding	93	93			90	2	0	1			71.5	75.5			
	"	110	110			90	7	180	9			105	112.5			
5.	"	33	33			90	0	0	2			29	36			
	"	120	120			90	0.	180	6			116	107			
6	"	79	79			90	1	0	0			77.5	96			
	"	120	120			270	3	180	1			118	123			
7.	"	21	21			90	0	0	4			19	28			
	"	102	102			90	6	0	5			101	104.5			
8	"	19	19			90	0	180	4			17	20.5			

CHIKYU Operation

Last Update 3/June/2011

No.

Structural Geology Observation Sheet

Exp.: 338 Site: C0002 Hole: L Core: 19X & 20X Observer: OF-KO-YS Summary:

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	
19X																
1	bedding	71	71			90	5	0	11			69	76			
2	"	82	82			90	0	0	0			79	88			
4																
5	bedding	18,5	18,5			270	10	0	15			16	20			
	"	102	102			270	2	0	0			97,5	103			
6																
7																
CC																
20X																
1	Bedding	32.5	35			270	2	0	1			30.5	35			
3	"	45.5	51			270	1	0	7			42.5	51			
4																Nothing to describe
5	bedding	3.5	5.5			270	2	0	4			0	9			
6	"	43	51.5			90	0	0	0			41	51.5			
7	"	10.5	13.5			270	4	0	2			9	13.5			
	"	104	106			270	5	0	1			112	117			
8	"	82	84			90	2	6	0			93	86			
CC	"	43.5	47			270	4	0	2			40	47			

CHIKYU Operation

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Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : I Core : 21 Observer : T-S Summary:

	Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom →"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
21X	1	bedding	53	53			270	6	180	7			53	64			There is lots of bedding parallel fissility.
	2	"	13	13			270	8	0	4			4	13			no noticable structure.
	3,5 & 6																
	7	bedding	30	30			270	3	0	2			25	32			
	8 & C.C																
22X	1	bedding	52	52			270	2	0	7			52	57			
	2	"	23	23			270	6	0	11			22	26			
	3																
	4	bedding	65	65			90	1	0	4			65	73			
	5	nothing															
	6	bedding	12	12			90	3	180	2			12	15			
	7																
	8	bedding	13	13			90	4	0	8			7	13			
	C.C.	"	36	36			270	2	180	9			32	36			
23X	C.C	bedding	25	25			90	0	180	2			20	29			

CHIKYU Operation

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Structural Geology Observation Sheet

No.

Exp. : 338 Site : C0002 Hole : L Core : 24X Observer : OF. KO Summary:

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	bedding	14	14			270	1	180	6			14	17			
	"	126.5	126.5			270	2	0	8			126.5	133.5			
2	"	5.0	5.0			90	12	180	2			4.5	7			
3.	4. 6															drilling induced disturbance. No tectonic deformation & bedding
7	"	4.0	4.0			270	2	0	1			4	7.5			
CC	Nothing to describe.															