

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 1, Observer: KB+MO Summary: 25/DEC/2013

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	cleavage	10	15		5												
CC	Fault	16	20			90	40	293	0	16	-90	6	20				normal fault (slip step) (photo) fault cuts web structures, Y.
	beddy web structure	6 20	20 23			270	80	180	0			6	20				Younging direction is 270°, 8cm: Y.P (PMAet) dipping in red mud layers cut web structure (photo)
							300										

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 2 Observer: KB+MD Summary: 25/DEC/2013

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	web structure	13	18														
	bedding	130	137			270°	87°	315°	0°	0°	129	137				Young direction is 270°	
	minor fault concentrated bedding	96	105			90°	80°	48°	0°	0°	90	106					105 YYP (PMAG)
2	web structure	131	138														
	bedding	3	7			90°	75°	35°	0°	0°	2	22				Young direction is 90°	
	fault	4	7			90°	22°	0°	10°	55°	90°	2	22				Normal faulting (photo)
	bedding	91	106			90°	83°	38°	0°	0°	91	106					91 YYP (PMAG) Young direction is 270°

1227 dip 5472

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P12 Core: 2 Observer: KB+MO Summary: 25/DEC/2013

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		
3	web structure	35	45														
	web structure	87	98														
	bedding fault	88 88	90 90					90°	25°	0°	33°	77 90°	90	95			normal fault 90° YTP (PMAG) bedding plane slip Yang direction is 0
4	fault	63	67					270°	270	180°	32°	60	90°	41	75		Normal faulting 6
	fault	58	62					90°	32°	0°	50°	72°	90°	41	75		Normal faulting
	fault	48	49					90°	28°	0	18°	34°	90	41	75		Reverse ("old")
	fault	41	54					90°	64°	77 18°	110°	270	41	75		Normal ("NEW") *NEW fault (normal faulting) cuts "old" fault (reverse fault) + photo	
	bedding	45	48					270°	77°	18 7°	340	0	41	75		52 YTP (PMAG) Yang direction is 270°	
	fault	52	57					90°	49°	0°	57°	44°	90°	52	57		normal faulting? 52 YTP (PMAG) sense of faulting was determined by slickensteps.
cc																	18: YTP (PMAG)

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 3 Observer: Yuzumi 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	52			270	88	351	0			45	52			younging to 270° PMAG: 88
		4	99	94			250	89	2	0			72	96		
2	N. fc	30	39			250	66	316	0	26	90	30	62			PMAG: 38 younging to 270°
		4	109	121			90	83	342	0			104	121		

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 4 Observer: Yuzam 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	Lamina	33	35			250	71	48	0			33	35			<p>81 PMAG</p> <p>younging to 270°?</p> <p>younging to 270°</p> <p>84 PMAG</p> <p>younging to 270°</p>
2	beddy	39	47			90	83	22	0			39	47			
	"	80	87			90	89	352	0			80	89			
3	Beddy	8	24			270	79	27	0			0	27			
4	"	48	55			90	63	332	0			40	55			
1/	Rte	20	33			90	55	31	0	18	250	0	27			
4	beddy	10	12			90	13	0	8			8	19			
	Rte	53	58			90	38	0	33	18	90	39	39			
	Lamina	52	60			90	86	318	0			39	39			
	Rte	48	54			90	37	0	26	29	90	39	39			
	Rte	112	13			270	55	12	0	11	290	120	128			
	Lamina	96	105			90	61	343	0			85	120			
5	Beddy	11	22			270	57	322	0			11	37			
	"	55	62			90	41	0	49			58	87			
	"	92	96			90	29	0	52			58	87			
	M. font	109	122			90	66	20 68	22	90		115	123			
	Rte	133	137			270	42	45	0	28	270	123	137			

mud/sand

Drill-induced? curved surface

⇒ fault

PMAG: 64

PMAG 118

Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 4 Observer: Mo KB Summary: 26 DEC 2013

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	
6	bedding	93	98			270°	70°	16	0			93	98			<p>PMAG '98 Young direction is 270°</p> <p>thin section, PMAG '98, photo, summa slide (sandy siltstone cut by minor faults)</p> <p>83-90 sketch</p> <p>thin section area</p> <p>118-122 sketch</p> <p>thin section area</p> <p>91-96 sketch</p> <p>thin section area</p> <p>145-151 sketch</p> <p>thin section area</p>
	minor fault concentrated	83	90					28	0			83	90			

Structural Geology Observation Sheet

No. _____

Exp. 348 Site: C0002 Hole: P Core: 5 Observer: MUKB Summary: 26 DEC 2013

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	R. fault	35	44			90°	60°	10 338	20 0	18	90	37	83			P-MAG (41)
2	beddy		2				74									
	beddy	74	84			90	82	4 338 0	0°			58	89			
	N fault	66	74			90	52	0	38	50	270	58	89			72 Pmag
	beddy	120	136			270	82	10 339 180	0	7		120	136			66 PMA G
	N fault	120	127			90	49	0	25	20	90	120	127			We can observe cross-section of no. structures
	N fault	73	86			90	61	347 37	0	34	90	58	89			

Structural Geology Observation Sheet

No. _____

Exp. 348 Site: C0002 Hole: P Core: 5 Observer: NO KB 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		
3																	
4	fault zone (R, fault)	57	89			90	62					57	89			SR-4 description Top 75 bottom 85 light gray color light gray Sandy siltstone fragment anticlockwise rotation, stretching All of this section "No. 4" is Area of interest	
4	beddy?	0	8			250	49	39	0			0	40			Working half drilling induced and (rotation?) photo Top 10 200 25 25 30 sandy silt 40 50 60 70 80 9002 Archive observed bedding siltstone fragment calcite? sandy core 270°/10 Archive photo Top Bottom Sandy 10 siltstone	
	scaly fracture	16	32			250	68	48	0			0	40				
	bedding	42	52			270	86	302	0			43	52				
	Carbonate vein?	58	60			90	43	323	0			57	89				
	"	75	84			90	66	43	0			57	89				
	chc zone (R.t.t.)	57	89			90	62	299	0								
	measured point	67	70			90	62	299	0								
	72	84			90	63	301	0									
	81	84			90	59	46	0									
	beddy	28	35			270	49	58	0			0	40				

↓
X-ray
CT
observation
21/DEC/2013

59-83 } different attitude.
83-89

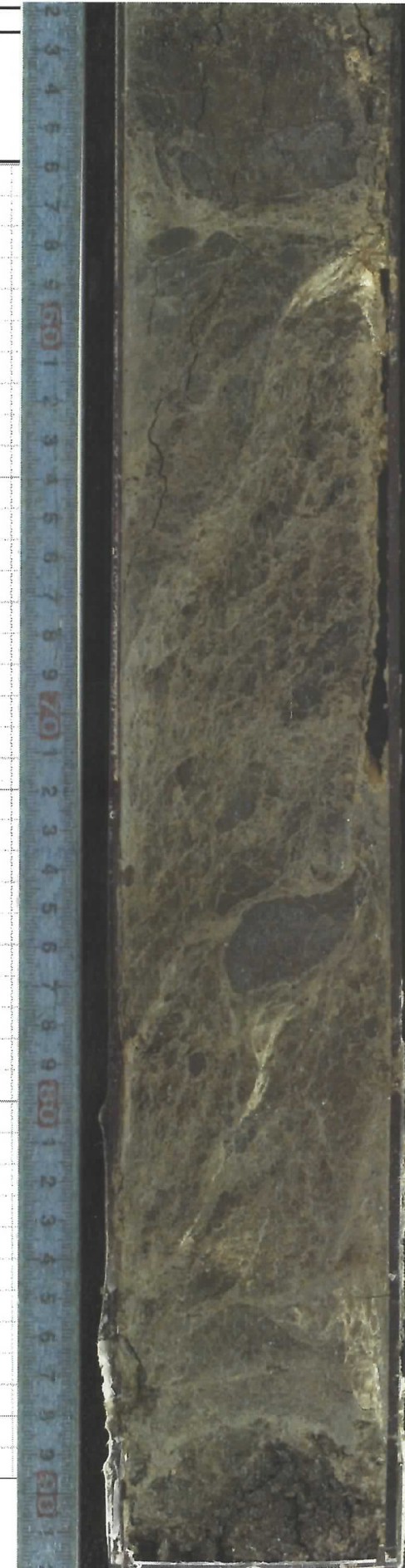
Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C002 Hole: P Core: 5 Observer: 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	
4	shear plane	95	85			90	48	332	0	48	90	78	87			
	N. fault	64	66			90	30	0	58	58	270	78	87			← This plane is different from zone of shear plane.
	W. fault	64	66			90	42	180	60	56	90	78	87			← one of main shear planes
																Stickensline (cur) is on the surface of carbonate vein
																AMAG: 87, 89, 78-80, 82-84

M0
M0



Structural Geology Observation Sheet

No. _____

Exp.: 348 Site: C0002 Hole: P Core: 6 Observer: Yuzuru 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	Beddy	5	30			90	80	25	0			5	30			14: PMAG
		31	35			270	360	180	7			31	46			
	Beddy Deformation band	35	41			270	42	180	18			31	46			
		40	45			270	84	322	0			31	46			
	Beddy	120	125			270	85	024	0			122	125			
2	Beddy	13	28			090	77	061	0			3	28			PMAG: 25 PMAG: 56 Younging towards 270
		40	58			090	85	058	0			40	70			
	Reverse fault	58	63			270	47	000	38	47	270	40	90			
	Beddy	125	136			270	73	326	0			125	136			
3	Beddy	03	16			090	85	31	0			9	16			PMAG: 9 PMAG: 136 PMAG: 125
		45	56			090	85	38	0			45	59			
	Reverse fault	120	134			270	62	50 28	0	34	270	128	135			
4	Beddy	0	35			090	84	350	0			0	40			PMAG: 125
		137	141			270	84	347	0			137	141			
5	Rte Beddy	26	32			270	86	<u>342</u>	0			26	32			younging 250° PMAG: 113 younging 250° → mag
		110	116			270	37	180	51	68	90	101	141			
		15	18			90	73	55	0			15	18			

Rt fault 47 51
Rt fault 124 130

90° 67 180 50 66 90 47 51
270° 50 180 65 65 90 101 141

PMAG: 47 P

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No. _____

Exp.: 348 Site: C0002 Hole: P Core: 6 Observer: 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	
6	bedding	98	106			90	85	23	0			98	106			younging to >>0° PMAG: 47, 13
cc																PMAG: 11