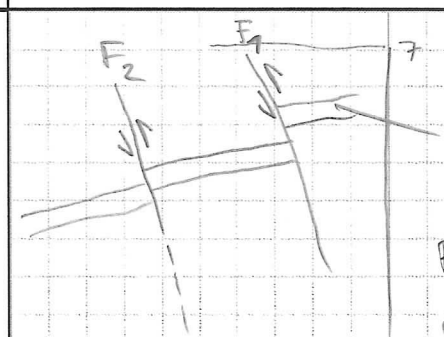
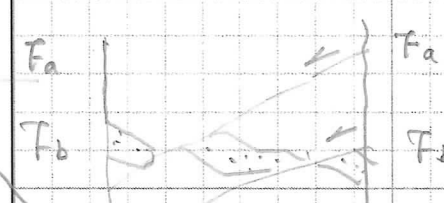


### Structural Geology Observation Sheet

No. 1

Exp.: 338 Site: C0002 Hole: J Core: 1 Observer: F-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		
1	F <sub>1</sub>	7	11	9	~0 F <sub>1</sub>	90	66	10	0			7	16			 <p>Thickness = 2 mm offset deformation band (darker than host rock) F<sub>1</sub> and F<sub>2</sub> are thin faults showing reverse displacement</p>	
	F <sub>2</sub>	7	15	12.5	~0 F <sub>2</sub>	90	80	350	0								
	deforma thin band	9	12	10.5		270	30	45	0			16	56				
	bedding?	18	19	18.5	4	270	5	0	10								to be confirmed with sedimentologists
	deform. band	21	22	21.5	0.5 mm	270	1	180	40								Deformation band (?) = dark fracture with non planar trace
	"	27	28	27.5	~1 mm	90	10	180	55								
	"	38.5	39.5	39	~1 mm	270	2	180	66								
	"	45	46	45.5	~1 mm	270	10	180	25								
	"	49	50	49.5	~1 mm	270	9	180	46								
	"	50	53	51.5	1.5 mm	270	35	180	55								
	"	55	56	55.5	1 mm	180	9	180	28								
11	Fault	61	64	62.5	?	270	19	0	30			57	66			 <p>F<sub>a</sub>, 1.8 cm offset in split surface } with a normal displacement component. F<sub>b</sub>, 1.8 cm offset in split surface.</p>	
		61.5	64	62.25		270	20	0	10								
	vain	67.5	71		~2 mm							66	72			looks like deformation band; irregular in trend	
	D.B.	75	78		1 mm	270	29	180	40			74	79				

### Structural Geology Observation Sheet

No. 2

Exp.: 338 Site: C0002 Hole: J Core: 1 Observer: F-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	
3	D.B.	2.5	3.5		3mm	90	8	270	32			1	24			<p>→ upper S.Z., 2~10+ mm thick.</p> <p>← lower S.Z., 1~3 mm thick</p>
		10	15		33mm (total)	270	40	180	39							
		15.0	19.5			270	40	180	35							
4	D.B. Fault	9	11.5		10m	90	7	0	27			1	9			<p>zoning.</p> <p>← grey</p> <p>← dark</p> <p>seems parallel to bedding (?) beneath.</p>
		17.5	20.0		< 1mm	270	17	0	18			10	26			

### Structural Geology Observation Sheet

No. 3

Exp.: 328 Site: C0002 Hole: J Core: 1 Observer: F-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 → * Bottom → *1*	top	bottom	az./trend	dip		
7	bedding	59.5	61.5			90	11	0	4								
7	D.B.	12	13.5		3 mm	270	5	0	10			1	31			<p><i>F<sub>2</sub> pyrite aggregate</i></p> <p><i>F<sub>2</sub> should have a reverse displacement as F<sub>1</sub>. Almost dip slip.</i></p>	
	Fault	23	26		< 1/2 mm	90	16	180	21			62	86				
	..	73	77		< 1/2 mm	270	36	0	41			87	108				
	D.B.	92	100		< 1 mm	270	47	0	10			111	118				
	..	100	104		1 mm	270	42	0	51								
	..	105	108		1 mm	270	45	0	60								
8	Fault	13	18		< 0.1 mm	270	46	0	1			15	67			<p><i>F<sub>1</sub></i></p> <p><i>F<sub>2</sub> should have a reverse displacement as F<sub>1</sub>. Almost dip slip.</i></p> <p><i>component</i></p> <p><i>D<sub>1</sub></i></p> <p><i>D<sub>2</sub></i></p> <p><i>F<sub>3</sub></i></p> <p><i>has shiny surface.</i></p> <p><i>F<sub>1</sub></i></p> <p><i>F<sub>2</sub></i></p> <p><i>F<sub>3</sub></i></p>	
	R.F.	12	16			270	45	0	29	10	270						
	D.B.	19.5	19.5		< 1 mm	270	0	0	38								
	..	20.5	21.5		2 mm	270	10	0	20								
	Fault	21.5	25		< 1 mm	270	40	0	0								
	Fault	33	39		< 1 mm	270	55	0	50								
	..	36.5	39		2 mm	270	40	0	58								
	rem. structure	23	34			270	60±					73	82				
	DB	74.5	75		< 1 mm	270	5	180	11			93	99				
	Fault	93	97.5		< 1 mm	90	32	0	14								
..	95.5	96.5		< 1 mm	90	12	0	0									
8																	

### Structural Geology Observation Sheet

No. 4

Exp.: 338 Site: C002 Hole: J Core: 2 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	D.B.	8	8.5		1mm	90	0	0	0			5	10			has a seemingly reverse slip sense.
	Fault	30	32		< 0.1mm	270	23	180	53	49	90	25	76			
	vein structure	39	42			270	60									
	Fault	62	63		< 1mm	270	11	180	15							
C.C.																



Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: J Core: 3 Observer: O.F. K.O. Summary:

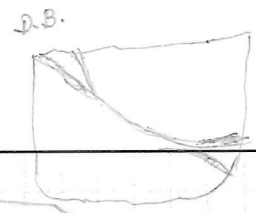
Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake ( $\leq 90$ )	from ( $\pm 1, 90$ or $270$ ) * Top $\rightarrow$ * Bottom $\rightarrow$ *1*	top	bottom	az./trend	dip	
1	D.B①	20	24	22	<1mm	90	47	320	0			20	25			D.B = deformation band 'bisecting' (fracturing parallel to horizontal plane) starting from 20cm and increasing downwards DB3 abuts (or is cut by?) on DB1
	D.B	28	31	29.5	~1mm	90	25	0	50			28	32			
	DB③	23	23.5		<1mm	270	10	180	23			20	25			
2	D.B①	7	13	10	~1mm	90	55	180	40			11	13			D.B. 24 ~ 75 lots of bisecting, bioturbation. No tectonic deformation.
	D.B②	22	24		<1mm	90	20	180	40			19	34			
5	Bedding	22	23		1cm	270	7	0	0			6	48			Fine sand layer. 59cm ~ 71cm stratal disruption 71cm ~ 114cm Incipient scary fabric 76 ~ 79cm scary fabric → shiny slickensurface & slickenside toward 0° ↑ almost
	Scary fabric surface	99	99		0	270	7	180	50			86	138			
6	D.B①	16	17		5mm	90	5	0	0	80	90	53	57	< 0-52		0 ~ 23cm blocky appearance 23 ~ 64cm lots of bisecting & bioturbation 70 ~ 72cm Incipient scary fabric, Almost horizontal, (faintly striated) 63-70, 72-90cm fractured (maybe drilling induced)
												61	70			

### Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: J Core: 4 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	D.B.	31.5	34.5		1mm	90	25									incoherent cores.
3	Fault	18.5	22.5		< 0.5mm	90	39	162	0			7	23			with an apparent normal offset of 1.2 cm. } sec. 3, biscuiting appearance. with an apparent normal offset of 1.6 cm.
	beddy	25.0	27.0		1mm	270	19	180	8			61	69			
4	beddy	67	67			270	10	180	7			33	45			
	beddy	75	75			90	3	180	2							
	Fault	75	78		< 1mm	270	55	0	8			17	24			with an apparent normal offset of 0.4 cm. faint striation. } tiny fractures in this range are abundant & bed-confined.
	beddy	78	81		< 1mm	270	30	0	0			34	113			
5	beddy	100	100			270	10	0	1			113	127			
	beddy	58	58			90	2	180	3			56	67			
												76	89			
6												95	111			



### Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: J Core: 5 Observer: K.O.O.F.Y.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	Vein structure	17	20			90	70±					7.5	20			0-7.5 cm Fragmented into 1-5 cm blocks, striated surface.
3	beddy	0.5	0.5			90	2	0	0			0	10.5			1) Vein structure sigmoidal shape
	D.B.	6.5	10.5		< 1mm	90	12	180	20							
4	vein structure	2	6			90	60-70					0	10			
6	Fault	4	10		0mm	90	45	180	52	20	270	0	109			with a normal displacement component, seems dextrous reverse slip sense.
	"	13	14		"	90	5	180	70	37	270					
	"	16.5	19.5		"	90	29									
	vein structures	28	31.0		< 1mm	90	70									
	Fault	47	61		"	90	10	0	75	65	270					seems to be normal.
7	beddy	72	72			90	3	180	33							with a normal displacement component, apparent offset 8 mm. 0-40, many subparallel faults, all tiny.
	"	91	91			90	5	180	30							
	beddy	6	6			90	4	180	15			0	46			
	Fault	21	30		0mm	90	67	180	65							
	beddy	36	36			90	0	180	5							
8	beddy	23	23			270	13	0	9			67	130			probably normal fault. unsmooth contact.
	Fault	46	52		0mm	90	44	0	68	40	270	46	131.5			
	beddy	110	110			270	44	0	0							
C.C.																

### Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: J Core: 6 Observer: O-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 → * Bottom → *-1*	top	bottom	az./trend	dip	
1 C.C																g-sands, no visible structures.



### Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: J Core: 7 Observer: O-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 → * Bottom → *-1*	top	bottom	az./trend	dip	
1	breccia	6	11													calcite-cemented breccia; mudstone, not indicative of fault  fragmented & mixed with sands & muds. → into small clasts
	bedding	20	20			90	25	0	60							
	calcite vein (?)	46	51													
2	bedding (?)	3	8			270	35	180	14							might be a fault.  laminae, overall fragmented.
	bedding	37	40			270	20									
C.C.																