

# Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: H Core: 1 Observer: OF+YS Summary:

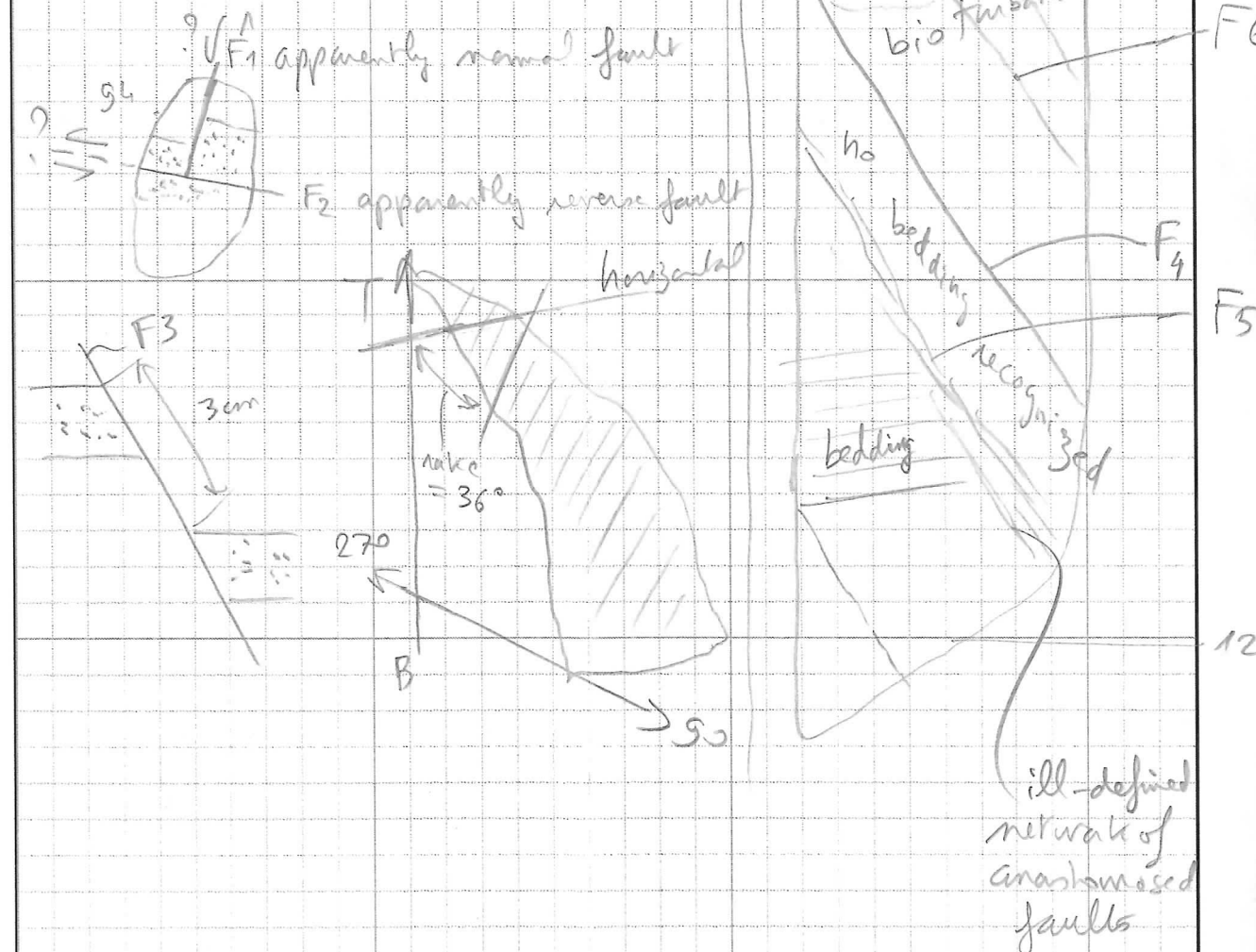
Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes	
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → "1" Bottom → "-1"	top	bottom	az./trend	dip		
1	bedding	47	49			90	10	0	10 (β <sub>2</sub> )							0-18 cm: blocky aspect likely due to drilling -18-41 cm: disturbed interval Some fragments show networks of very fine undulating and anastomosed dark "veins"	
	Fault?	42	42	42	0	90	05	0	19 (β <sub>2</sub> )	25 from 90	41	49				Coherent from 41 to 49 and then from 51 to 132; brecciated @ 49-51	
	Fault	43	49	49	0	90	15	0	15 (β <sub>2</sub> )	55 from 90	51	132					
	joint	65	83	74	0	270	67	300	0 (β <sub>2</sub> )	82 cm						shiny surface, no offset across it	
						270	105	305	0 (β <sub>2</sub> )	74 cm							
	Fault	67	70	68.5	0	90	50	180	15 (β <sub>2</sub> )	68 from 270 (180)							
	Shiny fracture	100	100	100	0	0	0	180	27 (β <sub>2</sub> )								
	reverse? Fault	100	101	100.5	0	90	18	0	13 (β <sub>2</sub> )	?	N126°E-77°NE (CT images) from CT						
			94	100	97	0											
	bedding	126	126			270	4	0	0	see CT images							
normal Fault F <sub>3</sub>	122	130	126	0	50	65	16	0 (β <sub>2</sub> )	36 (plunging S 180°)								
normal Fault F <sub>4</sub>	102	109	105.5	0					N36°E-52°SE from CT								
normal Fault F <sub>5</sub>	105	114	109.5	0					N34°E-7°SE from CT								

shiny and faintly striated

parallel to bedding

reverse fault F<sub>3</sub>

(at least a normal component)



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Exp.: 338 Site: C0002 Hole: H Core: 1 Observer: OF-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	
2		0	40									0	26			continuous interval.
	bed?	4	11	9	3.0	90	45	180	5 (P <sub>2</sub> )							sand/mud contact, unsmooth.
	fault	8	11			270	10	0	22 (P <sub>2</sub> )	33	playing east (90)					with slickensides in mudstone.
	bed	13	15.5		1.5-2.5	270	5	0	5 (P <sub>2</sub> )							sandstone bed.
	fracture zone	15.5	17.5	15.9	2.0	270	5	0	5 (P <sub>2</sub> )							a network of fractures with slickensides, subparallel to the smooth bottom of the overlying sandstone, in mudstone looks like scaly structures.
		15.9	40													on a horizontal fracture, the slickenside trends <u>N30E</u> . Incipient ↓ Trend (bearing) = 30°

### Structural Geology Observation Sheet

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

Exp.: 338 Site: C0002 Hole: H Core: 2 Observer: shan & Ryo 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		0	38									29	36			blocky appearance of silty mudstone, with no visible striation on the fracture surface, due to drilling.
		38	56													sands.
																sands.
3		0	44													blocky appearance of silty mudstone, due to drilling, no slickenside.
		44	57									56.5	68			indistinct slightly disrupted by drilling.
		57	130									68	91			laminated beds, dark mudstone
	bed	69	70	70	1.0	90	0	0	0							Black seam
		90	93			60	0	330	17	(β2) → ambiguous (from CT-image) (more reliable)		93	130			green zone without any striation on the fracture surfaces. Should be due to drilling.
	bed	102	112		1.0	270	57	40	0	(β2)						a layer of 1 cm thick dark mudstone; unsmooth contact & untabular thickness
	bed	87	88	87.5	1.0	47	0	317	37	(from CT-image, more reliable)						Black seam
	bed	123	130			270	25	85	0	(β2) → ambiguous						2 or more layers of 1 cm dark mudstone, unsmooth contact, untabular thickness & displaced by some smaller faults, normal & probably primary.
						0	0	270	37	(from CT-image, more reliable @ 126-127 cm)						
C.C.		0	98									7	12			blocky appearance some fracture surfaces are shiny but without any visible slickenside, very probably due to drilling in silty mudstone.