

Exp.: 405 Site: C0019 Hole: KK Core: 1K Observer: YF, CR, HO Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1	Dark seam	5	10	270	32	345	0			5	85			
	N. Fault	20	32	90	65	350	0							
	Fracture (CT)	31	36	270	38	0	52			↓	↓			
	Bedding	43	45	270	17	180	28							
	Fracture (CT)	59	61	90	20	0	35							
	Fracture (CT)	64	66	90	22	0	44							
	Fracture (CT)	73	76	270	22	0	39							
	laminations	77	78	270	6	180	13							
Fracture (CT)	78	81	270	28	0	34			↓	↓				
2	Fracture (CT)	0	11	270	44	0	47			0	120			
	Fracture (CT)	58	69	270	60	0	60			↓	↓			
	Fault	74	98	270	80	10	0	30	270					→ Fault offset (a) Contact
	Fracture (CT)	101	106	270	42	0	49			↓	↓			
3	Fault	34	48	270	67	26	0	52	270	30	44			
	Bedding	40	41	270	17	0	16			44	48			
	Fracture (CT)	52	60	90	53	180	15			↓	↓			
	Bedding	60	61	270	14	0	6							
	Fracture (CT)	60	71	90	61	180	24							
	Bedding	66	68	270	21	0	25							
	Fracture (CT)	71	79	90	51	180	12							
	Bedding	75	76	270	23	0	10			↓	↓			
	Fracture (CT)	91	98	90	52	180	28							
	Bedding	120	122	270	21	180	0			120	139			
Fault	128	134	270	47	45	0	43	270	↓	↓				
4	Fault	4	7	270	37	0	20			0	95			
	N. Fault	6	27	270	82	25	0							
	Bedding	17	21	270	32	0	2			↓	↓			
	Fracture (CT)	21	30	90	54	0	40							
	Fracture (CT)	33	33	90	2	0	46							
	Dark seam	35	38	270	27	0	8							
	Fracture (CT)	37	54	90	72	0	5							
	Fracture (CT)	53	66	270	51	0	11			↓	↓			
Fracture (CT)	61	66	270	41	0	66								
Fault	64	84	90	71	10	0								

Structural Geology Observation Sheet

Exp.: 405

Site: C0019

Hole: K

Core: 2 K

Observer: YV+CR+HS

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	fault	20	25	90	55	180	46			0	167			3 to 1 aspect ratio, long axes range 0.5 - 3 cm, 0.1 - 2.5 cm, 10 to 1 aspect ratio, striated surfaces, 5 cm
	fracture zone ↳ rep frac	35	42	270	30	180	10			6	39			
	fracture zone ↳ rep frac	40	42											
		49	54	270	32	180	31			39	147			
		53	54											
	bedding	74	76	270	23	180	21							
2	fracture zone ↳ rep frac bedding	80	115	—	—	—	—							frag size 5mm - 2cm, no preferred frag orientation, surfaces striated
		110	115	90	46	180	39							
		137	140	270	24	180	18							
	Fracture (CT)	2	4	270	22	180	30							
	Fracture (CT)	12	15	270	20	0	34							
	Bedding	21.5	23	270	24	180	15			0	49			
3	Fracture (CT)	27	27	270	0	0	65			50	60			ash, 2mm - 1.5cm frag size 3cm frag, pref orient gauge - 3mm
	Fracture (CT)	28	34	270	44	0	36							
	Fault	50	57	270	46	0	15			60	120			
	Bedding	61	65	90	23	180	6							
	Fracture (CT)	86	96	270	58	180	65							
	Fracture zone	90	120											
3	bedding	10	10	90	0					0	16			gauge - 3mm
	fracture zone	13	28							29	115			
	fault	32	48	90	74	325	0							
	fault	43	50	90	48	188	0							
	fracture interval ↳ rep frac	50	80											
	fault	72	77	90	41	0	65							
	fault	89	95	270	34	180	55							
	fault	163	115	270	65	240	0							

Structural Geology Observation Sheet

Exp.: 405

Site: COB19

Hole: 12

Core: 3K

Observer: CR + Y4 + HS

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	Bedding	2	2	270	18	0	29			12	29			3x1 cm frag, 1 large block 8x3.5cm, pref orient: 270/67, spacing ~1.5cm, striated surfaces
	Fracture zone	12	35											
	Fracture (CT)	17	29	270	67	180	32			35	60			
	Dark seams	41	51	90	52	330	0							
	Bedding	56	61	270	40	0	43							
	Fracture	60	67	90	50	0	28							
2	deformation band	6	10	90	41	270+37	0			5	29			50 99.5 basalt @ 48?
	bedding	21	31	270	55	180	38							
	dark seam	22	26	90	46	180	39							
	bedding	50	63	270	59	180	50							
	gouge	79	82	270	49	0	15							

Structural Geology Observation Sheet

entered 30-10-2024 AL
J core 31-10-24 40

No.

Exp.: 405

Site: C0019

Hole: K

Core: 4K

Observer: YH + HS

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	Bedding	0	9	270	74	315	65			0	46.5			Cause grains & greenish - wavy layers
	Deformation band	5	31	270	72	4	0							Dark seams w/ bioturbation
														→ The number of seams > 6, spacing ~ 1mm
2	Deformation band	0	39											
	Fracture	0	38.5	270	88	305	0							
	Fault	39	37	90	6	0	9							
	Fracture	42	44	270	14	180	29	28	90	0	42			→ bounding lithos.
	Bedding	42	47	270	44	180	10		90	42	104			
	Fault	47	48	270	5	180	8							
	Fracture	56	64	90	72	304	0	65	90					
	Fault	67	72	90	24	28	0							
	Fault	69	70	270	11	180	25							Syns, 2mm thickness
	Bedding	70	80	270	55	344	0							→ coarse grains w/ greenish. layers
	Fault	86.5	86.5	90	3	0	6							→ ~2mm thick

CI checklist

1 2
✓ ✓

Structural Geology Observation Sheet

entered 30-10-2024 AL
Jocore 31-10-24 HO

No.

Exp.: 405

Site: 60019

Hole:

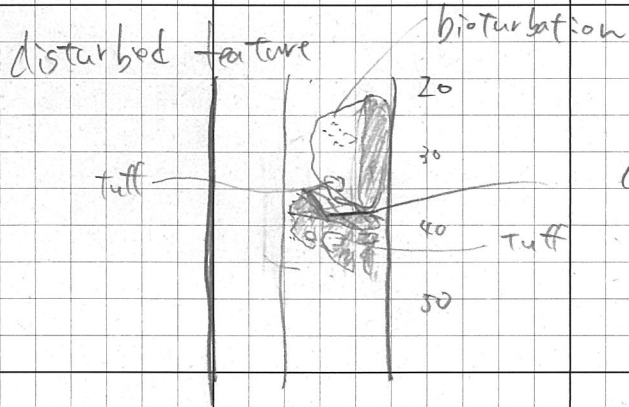
Core:

5k

Observer:

$$Y_H + Y_N$$

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	Fracture	8	18	270	66	335	0							Fractured zone, / drilling induced Thin ($< 1\text{mm}$) seam. 
	Fracture	16	17	90	16	78	0	71	90	18	32			
	Dark seam	16.5	19	90	35	180	2							
	Fracture	17	23	270	47	180	20							
	Fracture	19	23	270	26	0	58	73	270					
	Fracture (CT)	50	60	90	70	0	25			50	62			
2	Fracture (CT)	2	5	90	27	180	52							moderately fractured zone / drilling induced 0-2, 17-18, 39-43, 55-57, ~93 disturbed. → greenish layer, ~5mm thick. → & rounded ash $< 1\text{mm}$. → dark, fine-grain layer w/ brown layer.
	Fracture	4	8	90	25	180	44			2	17			
	Dark Seam	8	9	270	22	180	11							
	Fracture (CT)	11	20	270	51	0	40			24	40			
	Bedding	28	29	270	3	180	6			1	1			
	Fracture	32	35	270	34	180	3							
	Bedding	47	52	90	53	180	5			43	56			
	Dark Seam	52	52.5	90	5	180	12							
	Fracture (CT)	60	66	90	47	180	44			IN				
	Bedding	94	95	90	19	180	19			94	110			
	Fracture (CT)	100	107	270	39	180	66							
	Fracture	108	111	270	30	180	52							

Exp.: 405 Site: C0019 Hole: K Core: 6K Observer: Y.Y. CR. Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	<u>MTD</u>	0	80.5											
	fracture (CT)	6	17.5	90	77	0	47			0	30			
	fracture (CT)	17.5	29	90	77	180	66			↓	↓			
	fracture (CT)	37	42	90	39	180	4			30	80			
	fracture (CT)	50.5	56	90	39	180	44			↓	↓			
2	<u>MTD</u>	0	112											
	fracture (CT)	43.5	53	90	62	0	37			22	88			

CHIKYU Operation

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	MTD	0	140							67	107			
	Fracture (CT)	3.5	7.0	90	30	180	16			0	43			
	Fracture (CT)	27.5	32.5	90	43	0	45			↓	↓			
	Fracture (CT)	44.5	48	90	22	180	52			43	67			
	Fracture (CT)	55	60	90	37	0	40			↓	↓			
	Fault	67	99	90	84	342	0	39	90	67	107			— cutting MTD
	Fracture	92	94	270	22	0	6			107	134			— syn MTD
	Fault	107	113	270	57	14	0	24	270	↓	↓			— cutting MTD
	Fault	115	134	270	77	337	0	24	270					
2	Disaggregated blocks	0	115											
	Fracture (CT)	85	89	270	54	180	10			83	91			

Structural Geology Observation Sheet

Entered 31-10-2024 AL
check, MTD?
Jore 31-10-2024 HO

No.

Exp.: 405

Site:

Site: C0019

Hole:

K

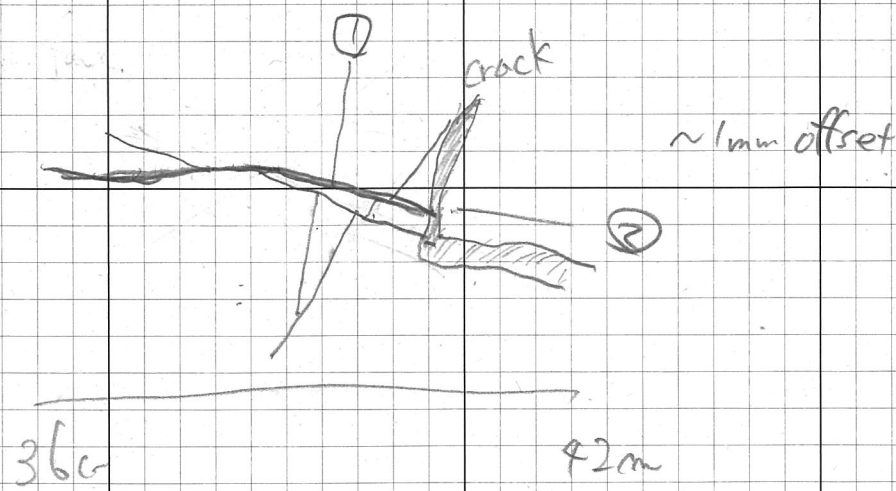
Core:

8

Observer:

Y.H. D.G

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1	Dark seam	4	6	270	7	180	47			0	10			MTD - structures, cut by dark seams
	Fracture (CT)	7.5	10	270	34	180	36			↓	↓			
	Fracture (CT)	24	29	90	38	0	18			18	41			
	Fracture (CT)	29	33	90	30	0	30			↓	↓			
2	Fracture (CT)	4.5	10.5	90	58	180	33			5	15			cutting MTD
	Dark seam	22	24	270	27	180	36			↓	↓			
	Fracture (CT)	30	34	270	31	180	25			22	26			cutting MTD
	Dark seam	38	47	90	86	0	90			↓	↓			
	Fracture (CT)	46	49	90	30	0	2			26	77			cutting MTD
	Fracture (CT)	60	64	90	25	0	15			↓	↓			
	Dark seam	36	44	270	37	180	31			↓	↓			
	Dark seam	30	27	270	10	0	75			↓	↓			
														

Structural Geology Observation Sheet

Exp.: 405 Site: C0019 Hole: K Core: 9K Observer: Derya Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1	Fracture (CT)	50	56	270	70	180	5			45	103			soupy, no structure 0-21 cm structural feature at 58 cm, mini flower structure alteration fronts, bioturbation at 61-62 cm sketch fracture ① ② ③ dark seam ④ another fracture
	Fracture	58	58	90	53									
	Bioturbation	61	62	90	75									
	Dark seam	65	65	270	10									
	Dark Seam	81	81	270	60									
	Fracture (CT)	88	90	270	15	180	37							
2	Planar feature	11	12	90	40	0	63	60	90	0	53			12-50 cm, regular-spaced parallel fractures bioturbation 3' ash below 50 cm fractures appear to cross-cut each other with mm-scale offsets
	Planar feature (base)	11	12	90	0									
	Fracture (CT)	12	37	270	79	180	79							
	Fracture zone	12	50	90	32	180	40							
	Fracture	32.5	41.5	90	55	180	39							
	Fracture	34	36.5	90	32	180	40							
	Fracture	56	57	270	13	0	32			53	60.5			
	Fracture	76	79.5	270	35	180	65			75	80			

re enter this

31 / 11 / 2024

JCORES 21 Nov. / 2024

No.

Structural Geology Observation Sheet

Exp.: 405

Site: C0019

Hole: K

Core: 10

Observer: Y.H. D.G. AL

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1	extensional fractures	1	4.5	270	70°	180	69°			0	20			Deformation band, on 13, cross cuts.
			19	270	71	0	30							
			22	270	40	0	40							
	fracture	5.5	8	90	22	0	5							
	fracture	7	8	90	5	0	20							
	disturbed bedding	12	20	270	52	0	49			20	32			highly irregular layer thickness w/ induration, pumice MTD, and/or soft sed deformation
	fracture	13	15	90	10	0	34							
	fracture	16.5	18	90	13	0	14							
	T. Fault	18.5	21	90	16	180	18							
2	Fault fracture	7	10	90	33	0	50			0	22			Massive, - coherent
2	fracture (CT)	2	5	90	25	180	52							
	fracture (CT)	5	6	90	11	0	18							
	fracture (CT)	17	18	90	10	0	11							
C														Red clay, disturbed by drilling.
C														Brown clay

sect. 2

No

Observer: DG + ID + YH + AV + HS **Summary:**

[illegible]

does
not
exist
in
J core

drilling
disturb.

* send Heather the true strikes & dips

NOTE: SECTION STARTS AT 23 cm

Summary:

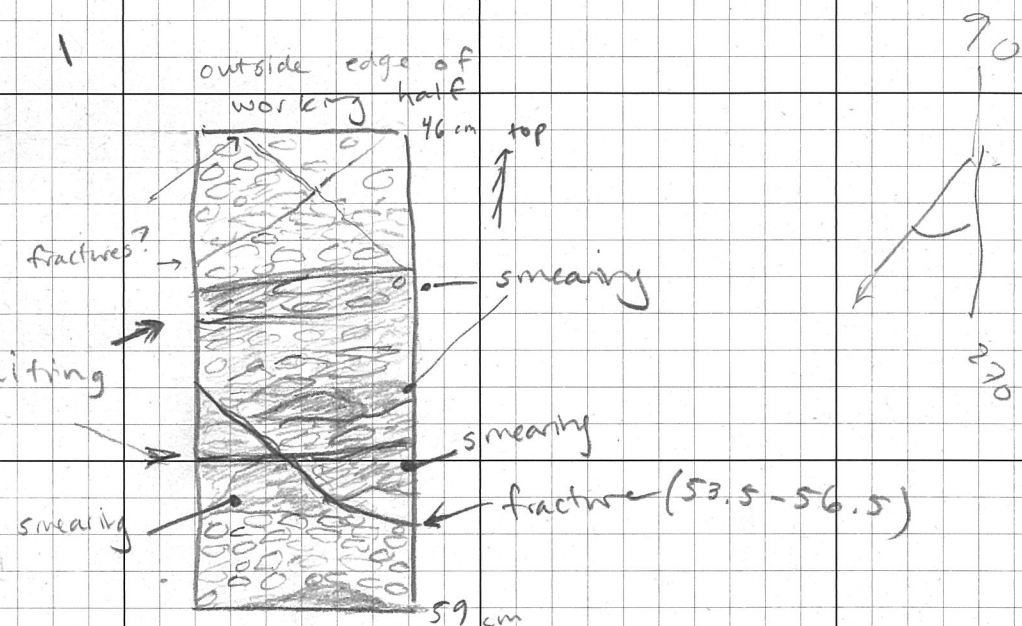
[illegible]

Summary: Sketch + a some descriptions

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	

Structural Geology Observation Sheet

Exp.: 405 Site: C0019 Hole: K Core: 11K Observer: AL, HH, DG, YH, ^{HO} Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1- WH	Fault	3	8	270	50	180 270	55	60	270	2	33			Colors are based on wet core scaly fabric in dark brown (57R 1.7/1) clay lenticular stacking w/ lentils ~ 2.5-5 mm thick pervasive smearing along edges of core
	Fracture (CT)	17.5	20	90	27	180	25			↓	↓			
	Shear Fracture	33	40	270	58	90 0	33 49			33	46			
	Scaly fabric	46	59	90	7	0	5			46	49.5			
	Fracture	53.5	56.5	270	25	0	10			49.5	54.5			
2	Fracture	6	10	90	66	0	11			0	11			
	Fracture	28	38	90	54	270 0	65 46			11	45			
	Fracture	33	39	270	2	0	90	→ vertical						
	Fracture	39	44	90	29	270 0	56 35							
scaly fabric easy to observe via smearing. Very hard, dense clay														
scaly fabric pervasive 3 polished surfaces fractures marked by red colored clay 3 alteration scaly fabric, polished surfaces														

No

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1 ↓ WH	Fault	0	5	90	52	180	16			0	25.5			color based on semi wet ↓ smeared dark brown clay (S TR 1.7/1) Primary structures (if any) obscured by pervasive edge smearing. Most of core contains mm-scale, horizontally oriented fractures in the plane of smearing. about five mm-scale fractures and 3-4 sub-mm-scale fractures 2 dominant orientations, 0.5 - 1 m fracture spacing
	Fracture (CT)	5	8	90	21.5	0	45.5			0	25.5			
	Fault	13	21	90	50	270 0	28			0	25.5			
2 ↓ WR	Fracture (CT)	1	8	90	41	0	4			0	11			
	Fracture (CT)	52	55	90	15.5	0	5			44	63			
	Fracture (CT)	82	92	270	54	180	21			73	105			
	Fracture	113	119.5	270	60	180	70			113	119.5			
	Fracture set 1	121.5	127	90	20	0	15			121.5	127			
	Fracture set 2	121.5	127	270	10	180	15			127	134			
↓ drilling disturb beyond														

Structural Geology Observation Sheet

Exp.: 405

Site: C0019

Hole: K

Core: 13K

Observer: HO

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
1	Lithological unit	0	16							0	16			Brown (7.5YR 3/1 ~ 3/3) mudstone with pervasive scaly fabric
	fracture	7	7	0	horizontal									Four fractures: drilling disturbance. Subhorizontal orientation
	fracture	11	11	0	horizontal									
	fracture	14	14	0	horizontal									
	fracture	16	16	0	horizontal									
	Litho. unit	16	24	90	43					16	24			Brown (7.5YR 3/2 - 2/2) mudstone with fractures
	fracture	16	18	90	43	0	27							Grain size: 2-3mm. pervasive scaly fabric
	fracture	16	22	90	55	0	14							branching from 16-22 fracture. Subvertical.
	fracture	18	20	90	23	180	7							
	fracture	20	24	90	65	0	16							visible scaly fabric
	Litho. unit	24	29											Brown (7.5YR 3/2) mudstone with fractures
	fracture.	24	25	270	11	0	12							with pervasive scaly fabric. Grain size: 2-3mm
	fracture.	25	27	270	15	0	11							pervasive scaly fabric
	fracture.	27	28	270	10	0	16							
	fracture.	28	29	270	6	0	10							
	Litho. unit	29	33							29	43			Brown (7.5YR 3/2) mudst. no visible fractures, [dark brown (7.5YR 3/1) zone] at 29.5~31
	Litho. unit	33	42											
	fracture	33	35	270	40	0	7							Brown (7.5YR 3/2) mudst. with fractures with pervasive scaly fabric
	fracture	33	37	270	40	0	2							Grain size: 1-5mm
	fracture	36	38	270	13	horizontal								
	Litho. unit	36	43											Brown (7.5YR 3/2) mudst. with pervasive scaly fabric but disturbed by coring or cutting

Structural Geology Observation Sheet

Exp.: 405

Site: C0019

Hole: K

Core: 13

Observer: HO

Summary: This portion was originally a community WR structure sample.

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270)	top	bottom	az.	dip	
2	fracture	59	59	— HORIZONTAL —		—		} biscuits?	40	82			Dark-brown (5YR 2/2) mudstone with scaly fabric with some horizontal fractures (biscuiting?) and inclined fractures. ↑ VCD with WR sample	
	fracture	60?	64	90	30	0	21							
	fracture	63	66	270	18	180	35							
	fracture	66	66	— HORIZONTAL —		—		←						
	fracture	67	69	90	12	180	19							
	fracture	71	73	90	26	180	12							
	fracture	67	67	— HORIZONTAL —		—		→						
litho. unit	57	73												
	fracture	66	66	— HORIZONTAL —		—		← VCD with WR sample				Sketch of WR core.		
	litho. unit	57	73											
2	litho. unit	0	57									Dark-brown (7.5YR 2/2) mudstone with scaly fabric. No fracture can be identified.		
CC	litho. unit	0	9											

Sketch of WR core.

Scaly fabric

4 5 90 22 180 23

"

4 5 90 16 0 21

Structural Geology Observation Sheet

Exp.: 405

Site: C0019

Hole: 

Core: 14k

Observer: HH, DG, YH

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	bedding	27.5	31.5	270	15	180	83			27	32			{ 5~7. dense bioturbation 9~11. dense bioturbation
	fracture	30	31	270	22	180	10			↓	↓			
	bedding	46.5	48	90	12	180	61			46.5	51			
	bedding	74	80	270	40	180	37			72.5	88			
	fracture	77	78	270	11	0	6			↓	↓			
	fracture	79	80	90	10	0	17			↓	↓			
2	fracture	27	30.5	90	48	180	40			26	47			Dark Brown. Red Brown Mud. Contact. Rest of th section is massive. Biscuitting throughout (top - bottom) Scaley Fabric throughout (top-bottom).
	fracture	42	43	270	12	0	68			↓	↓			
	fracture	56.5	58	90	13	0	19			51	66.5			
	bedding	59	61	270	16	180	38			↓	↓			
	fracture	60	63	90	17	180	35			↓	↓			
	fracture	61	64	90	18	180	37			↓	↓			
	fracture	69	70	90	12	180	27			66.5	73			
	fracture	92.5	94	90	9	0	52			82	97.5			

Structural Geology Observation Sheet

Exp.: 405

Site: C8019

Hole:

K

Core: 15K.

Observer: DG, YH, HH

Summary:

Sec No.	Structure ID	Top of Struct	Bottom of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Note
				az.	dip	az.	dip	rake (≤ 90)	from ($\pm 1, 90$ or 270)	top	bottom	az.	dip	
1	fracture (CT) fracture fracture fracture fracture (CT) fracture fracture (CT) fracture	119	20	270	8	180	10			0	35			fracture has the polish surface with NO slicken lines scaly fabric especially around 85 ~ 90
		41.5	44	90	31	0	9			35	62			
		70	72	90	22	0	13			62	71			
		85	86.5	90	23	0	16			73	86			
		95	96	90	2	0	12			86	106			
		113	114	90	47	0	9			106	120			
2	fracture fracture fault bedding fault	65	66	270	16		15			118	88			red clay oxidation, no slickenlines red clay oxidation fracture, layer parallel fracture, layer parallel polished fault surface / mirror surface
		83	84	270	15	180	2							
		86	87	270	15	0	2	16	90					
		101.5	104	270	14	0	15			88	141			
3	fracture fracture fracture fracture fracture	34	36	270	12	180	19			0	41			bottom = 137
		54	58	270	26	0	9			51	58			
		76	80	270	21	0	6			58	82			
		77	80	270	19	0	18			82	102			
		96	100	180	45	270	32							

Structural Geology Observation Sheet

Exp.: 405

Site: 60019

Hole: K

Core: 16

Observer: AL + HO

Summary:

[illegible]

CHIKYU Operation

Summary:

[illegible]