Jan. 6., 2011

CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site: C0012G Core: 1R Observer: A. T. Summary:

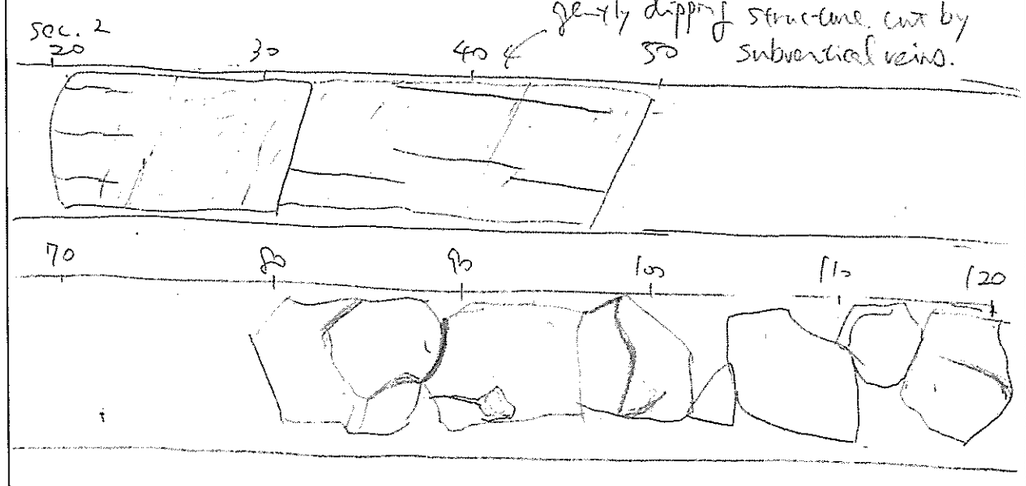
	Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake	Striation on surface from	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	notes
1R	2	mineral vein	13	17		90	60	0	13							
	4	thin vein	64	66												
		thin vein	70	76		90	6	24	0							
	CC	bed.	17	18		90	0	180	7							
	5	bed.	26	27		270	10	0	2							
2R	1	bed	20	22		90	7	80	16							
	2	thin vein	35	49		270	86	355	0							
		bed.	41	43		90	23	21	0							

sec. 1: biscuitted (max piece length = 4 cm)
2: biscuitted (max piece length = 6 cm)
4 & CC: good coherent pieces.

lithology: red clay (partially bioturbated)
greyish clay distributes sec. 1, 27-33 cm
50-55 cm
sec. 2, 14-17 cm (greenish)
sec. 4, 1-14 cm (greenish)
sec. 5, 23-26 cm (greenish)
sec. 5, 17-33 cm & CC all brownish

sec. 4, 90-99 cm: heavily bioturbated piece

black / brown alt., similar to hole E-3X-7 top



Sec. 2, 80-139 cm, CC: basalt.

CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp. : 333 Site : C0012G Core : 3R Observer : A. T. Summary:

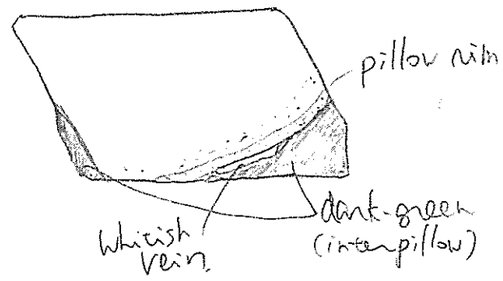
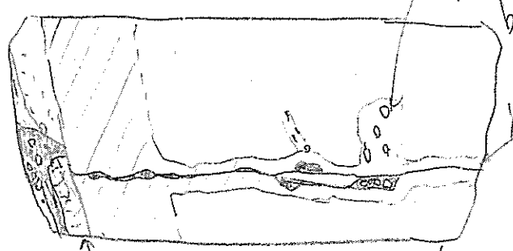
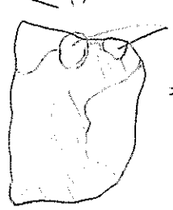
Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	
3R	1														1-3 (18-22cm) zeolite amygdales. green-colored dark green. transparent vein (analcite?) black-colored 1-5 (26-43cm) zeolite amygdales dark-greenish clay vein with ~1mm greyish classes whitish colored black part appear to be original. other parts are altered to light green.
6	CC														CC-2 (5-15cm) black zeolite amygdale altered to green transparent crystals in black part. not amygdale (non-rounded shape) CC-3 (15-26cm) nice mini-pillow !! rims are coated by dark-green clay mineral black

CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp. 333 Site : C0012G Core : 4R-5R Observer : A. T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	
4R 1															Sec. 1-3 (15-26cm)  CC-5 (32-39cm.  closely-packed fragments. Cuttings? less altered
5R															Sec. 1-2 (7-21cm)  ① whitish vein truncated by dark-green vein ② green vein + alteration halo ③ amygdale? CC-2 (13-17cm)  * heterogeneous alteration.

CHIKYU Operation

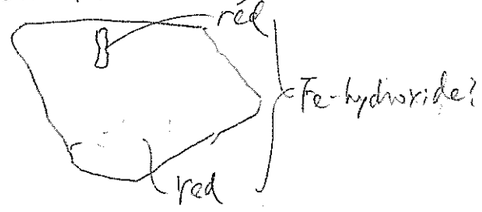
Structural Geology Observation Sheet

No.

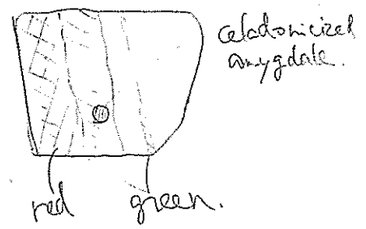
Exp.: 333 Site: C0012G Core: 6R-7R Observer: A.T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake	Striation on surface from	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	notes
6R															
7R															

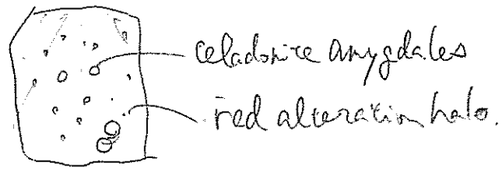
Sec. 1-4 (22-28 cm)



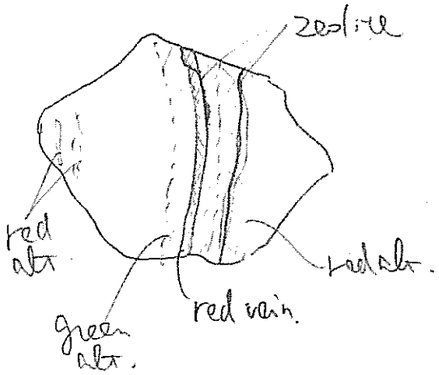
CC-4 (20-23 cm)



CC-7 (29-34 cm)



Sec. 1-6 (58-64 cm)



① red vein
② zeolite thin vein

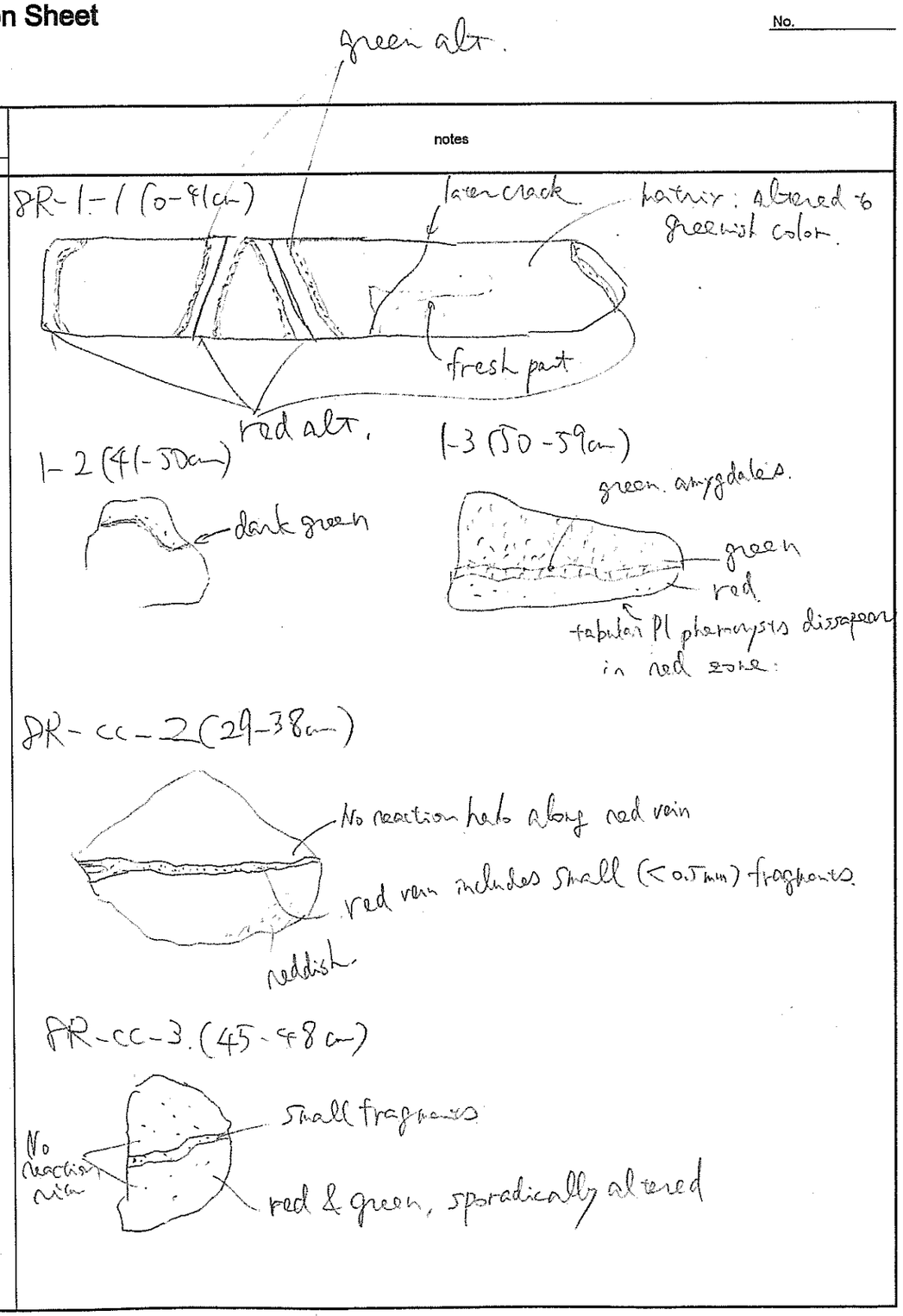
CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site: C0012G Core: 8R Observer: A. T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	



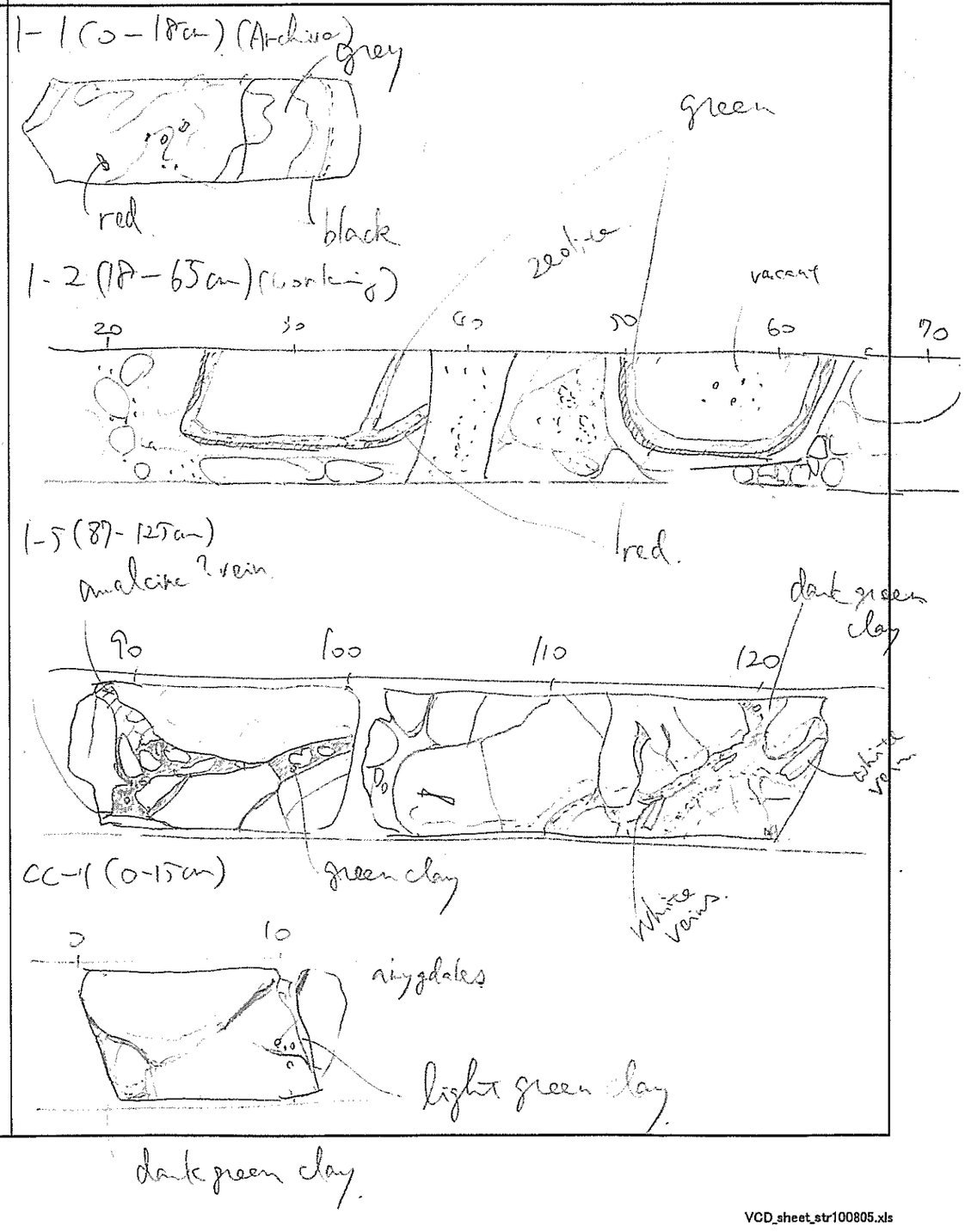
CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site C0012G Core: 9R Observer: A.T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	



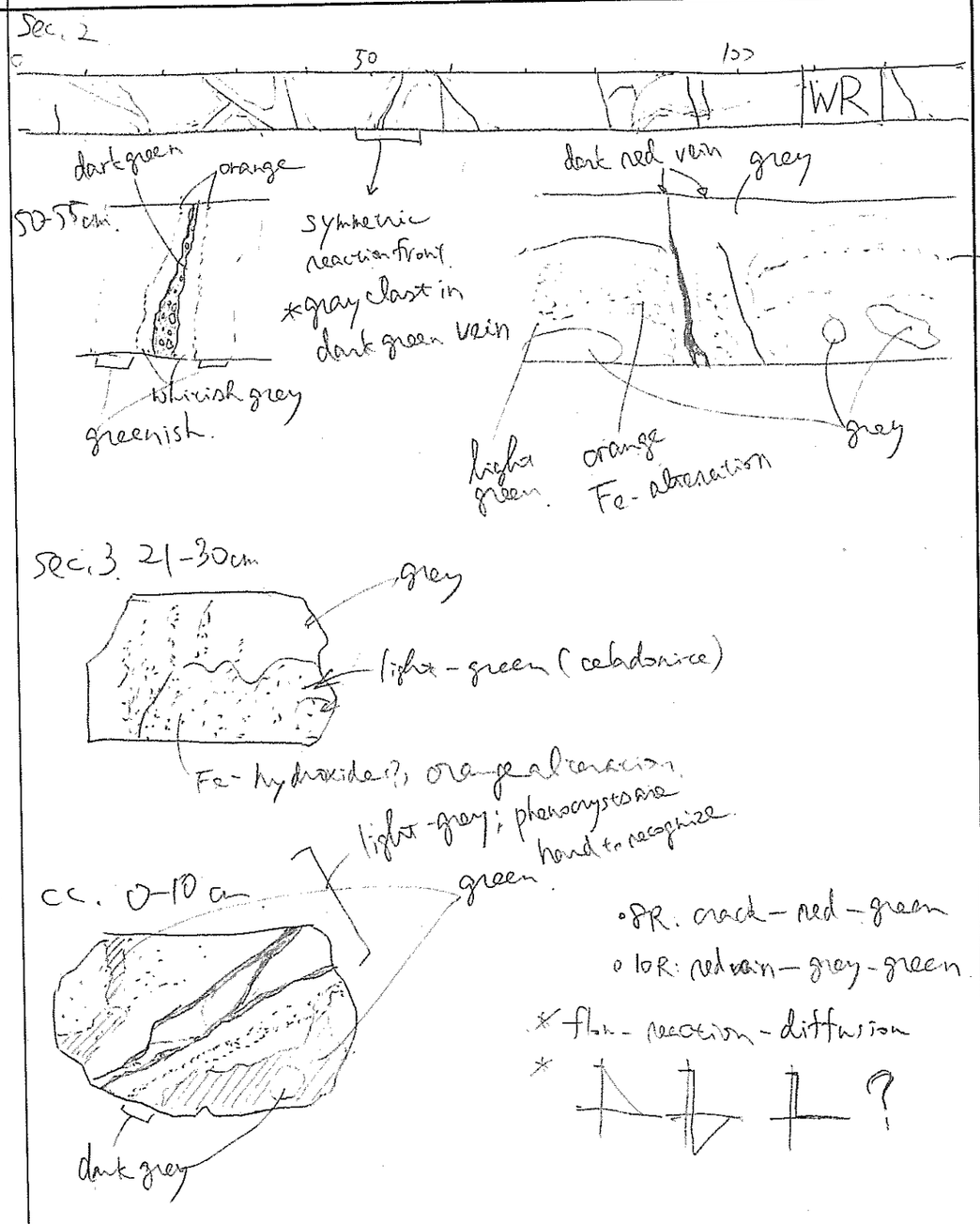
CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site: C0012G Core: 10R Observer: A.T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	



CHIKYU Operation

Structural Geology Observation Sheet

No. _____

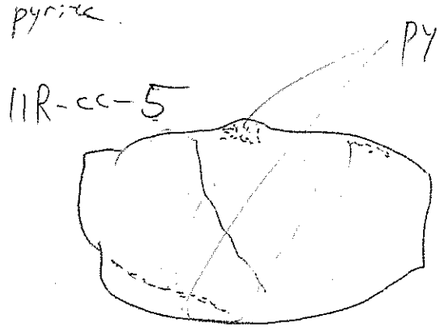
Exp. : 333 Site : C0012G Core : 11R Observer : A. T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	

11R-cc-2

highly altered greyish rock (chlorite) with small grains of pyrite

11R-cc-5



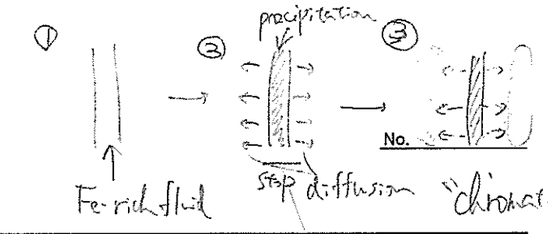
reducing alteration with pyrite grains.

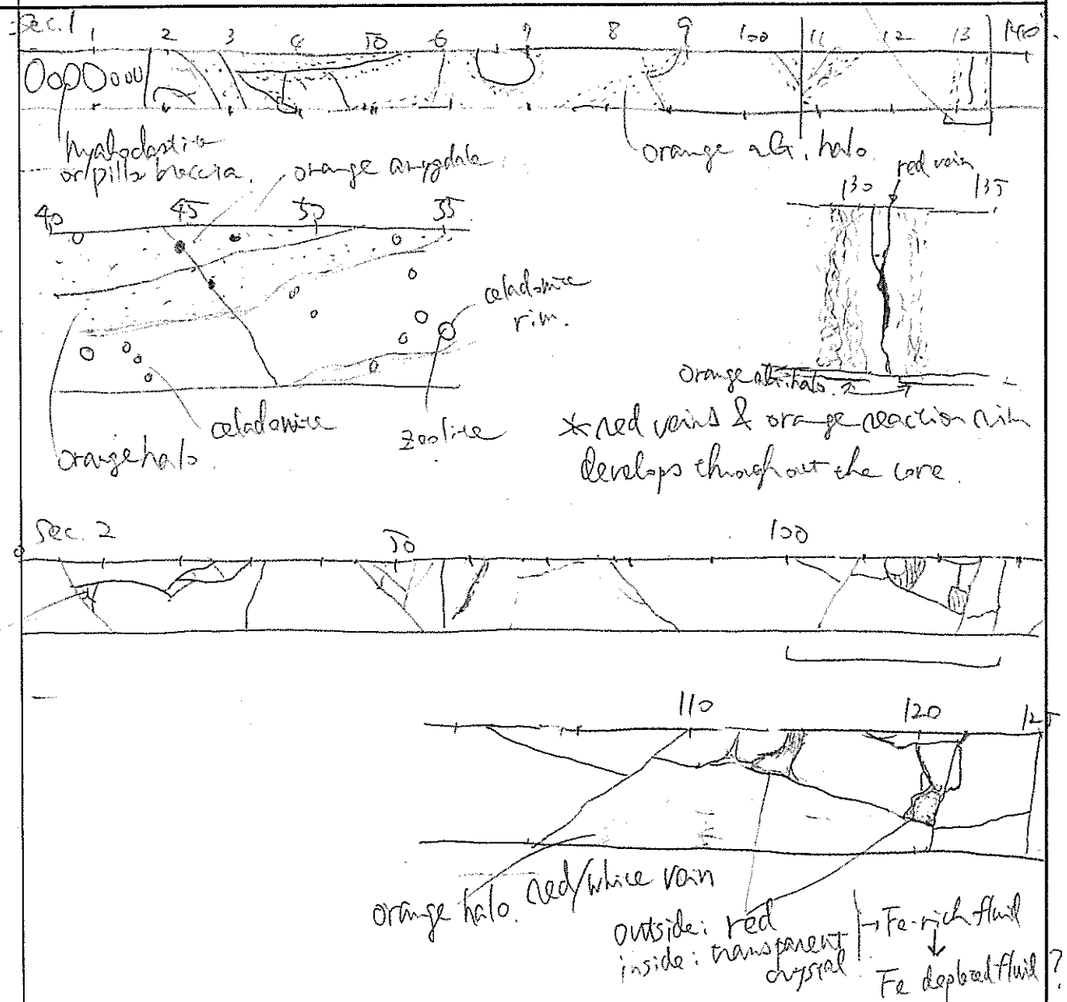
CHIKYU Operation

Structural Geology Observation Sheet

Exp. : 333 Site : C0025 Core : 12R Observer : A. T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	
															zeolite.





CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site: C0012G Core: 13R Observer: A. T. Summary:

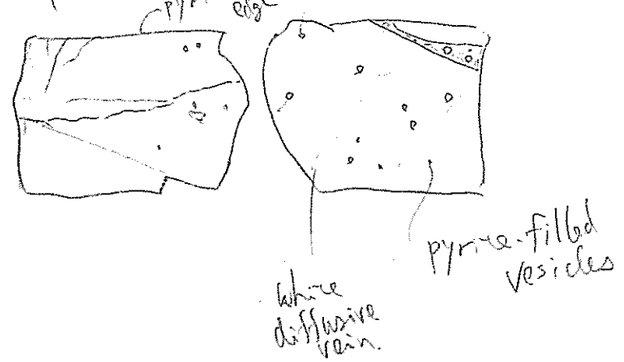
Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip	

Sec. 1

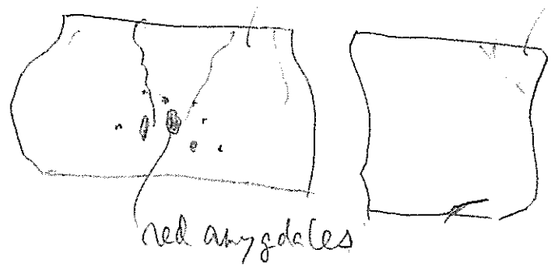
1~6 : pyrite alteration

7~11, CC : Fe-hydroxide aG. with weak reducing alt.

1-3 (22-37 cm) pyrite-filled



CC-1 (0-15 cm) Anastomosing brownish alt. halo red brown altered.



CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp.: 333 Site: C0012G Core: 14R-15R Observer: A.T. Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		notes
					az.	dip	az.	dip	rake	from	top	bottom	az./trend	dip