

Jan. 6., 2011

CHIKYU Operation

Structural Geology Observation Sheet

No.

Exp. 333

Site: C0026

Site C002E

Core: 1

Observer: A.

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	
2	mineral vein	13	17		90	60	0	13							Sec. 1: bisected (max piece length = 4 cm) 2: bisected (max piece length = 6 cm) 4nc: good coherent pieces.
4	min. vein	64	66												(lithology: red clay (partially bisembayed) greyish clay distributed sec. 1, 27-33 cm 50-55 cm sec. 2, KF-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 brownish piece
CC	bed.	17	18		90	0	180	7							
5	bed.	26	27		270	10	0	2							
1	bed	20	22		90	7	180	16							black / brown clg, similar to hole E-3X-7 top
2	min. vein	35	49		270	86	355	0							gently dipping structure cut by subvertical veins.
	bed.	41	43		90	23	21	0							

Structural Geology Observation Sheet

Exp.: 333 Site: C00126 Core: 3R Observer: A.Y. 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	
1															1-3 (18-22cm) zeolite amygdalites. green-colored dark green. transparent vein (andalcite?) 1-5 (26-43cm) zeolite amygdalites dark-greenish clay vein with minor greyish classes calcareous black part appear to be original. other parts are altered to light green. CC-2 (5-15cm) black zeolite amygdalites transparent crystals in black part. Altered to green not amygdalite (iron-rounded shape) CC-3 (15-26cm) nice mini-pillow!! rims are coated by dark-green clay mineral black
6	CC														

Structural Geology Observation Sheet

Exp. 333

Site: Coo/2G 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 (15-26 cm)
5R															CC-5 (32-39 cm.) closely-packed fragments. Cuttings? less altered. Sec. 1-2 (7-21 cm) CC-2 (13-17 m)

Structural Geology Observation Sheet

Exp.: 333 Site: Cool26 Core: 6R-7R Observer: A.Y.

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	
6R															<p>Sec. 1-4 (22-28 cm)</p> <p>red</p> <p>Fe-hydride?</p> <p>red</p> <p>cc-7 (29-34 cm)</p> <p>celadonite amygdalites</p> <p>red alteration halo.</p>
7R															<p>sec. 1-6 (58-64 cm)</p> <p>zeolite</p> <p>red vein</p> <p>zeolite thin vein</p> <p>red alter.</p> <p>green alter.</p> <p>red alter.</p>

Structural Geology Observation Sheet

Exp.: 333 Site: C0012G Core: DR

Observer: A.Y.

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	
															<p>DR-1-1 (0-41cm)</p> <p>green alt.</p> <p>red alt.</p> <p>dark green</p> <p>fresh part</p> <p>matrix: altered to greenish color.</p> <p>green amygdalae.</p> <p>green red</p> <p>tabular Pl phenocrysts disappear in red zone.</p>
															<p>DR-cc-2 (29-38cm)</p> <p>No reaction halo along red vein</p> <p>red vein includes small (<0.5mm) fragments.</p> <p>reddish</p>
															<p>DR-cc-3 (45-48cm)</p> <p>Small fragments</p> <p>No reaction halo</p> <p>red & green, sporadically altered</p>

Structural Geology Observation Sheet

No. _____

Exp.: 333

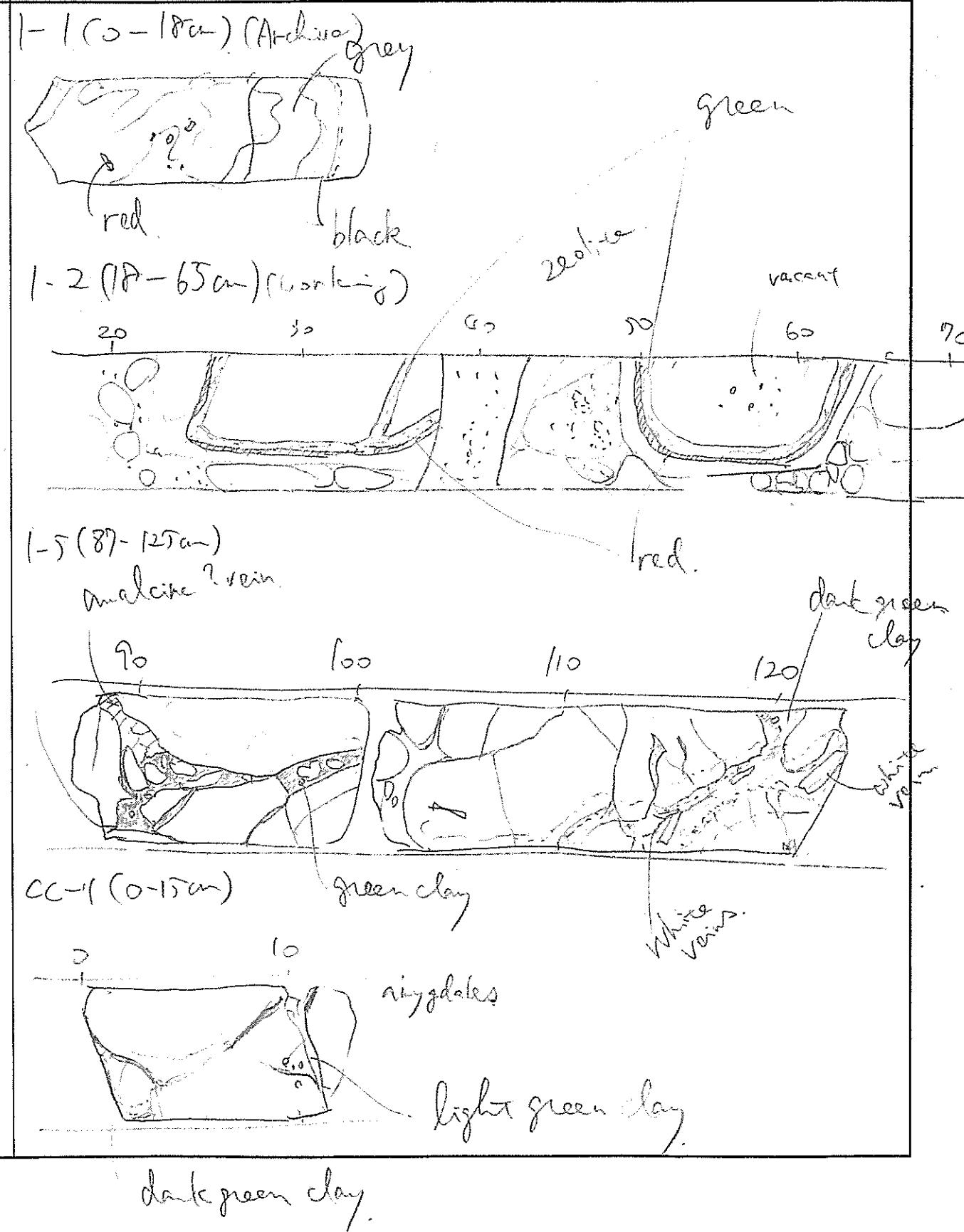
Site 6002G

Core: 9R

Observer: A.Y.

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	



Structural Geology Observation Sheet

Exp.: 333

Site: 60/26 Core: 10R

Observer: A.Y. 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	
															<p>Sec. 2</p> <p>50 100 WR</p> <p>dark green orange</p> <p>dark red vein grey</p> <p>50-55cm</p> <p>symmetric reaction front</p> <p>gray clast in dark green vein</p> <p>whitish grey greenish</p> <p>light green</p> <p>orange Fe-alteration</p> <p>grey</p> <p>Sec. 3 21-30cm</p> <p>grey</p> <p>light-green (celadonite)</p> <p>Fe-hydroxide? orange alteration, light-grey; phosocystite hard to recognize green.</p> <p>cc. 0-10 cm</p> <p>dark grey</p> <ul style="list-style-type: none"> • 8R: crack-red-green • 10R: red vein-grey-green • flat - reaction-diffusion * ?

Structural Geology Observation Sheet

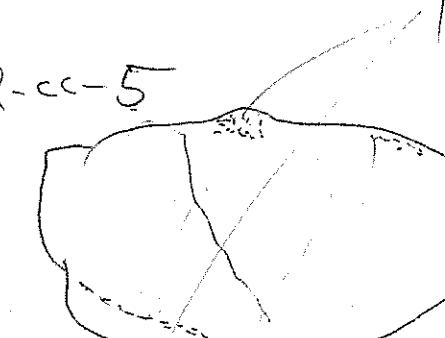
Exp.: 333

Site: Goo 129

Core: IIR

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	
															<p>IIR-cc-2  pyrite. highly altered greyish rock with small grains of pyrite.</p> <p>IIR-cc-5  pyrite. reducing alteration with pyrite grains.</p>

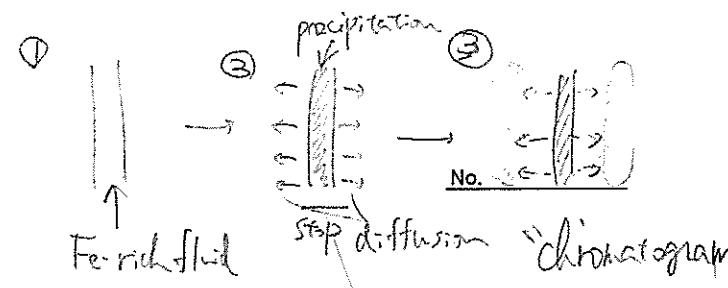
Structural Geology Observation Sheet

Exp.: 333

Site: Cool2G Core: 12R

Observer: A.Y.

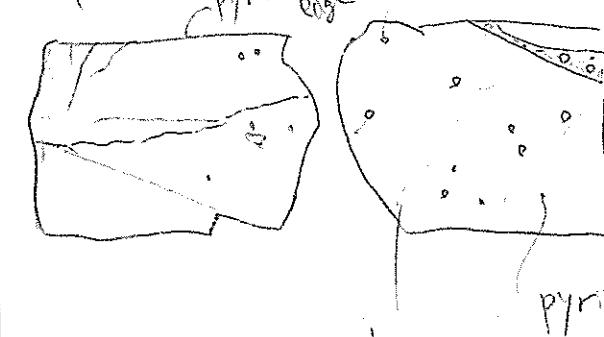
Summary:



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: Malgodrite, orpilite, bauxite, orange aragonite, orange halo, red vein, calamine rim, zoelite. Red veins & orange reaction rim develops throughout the core.
															 Sec. 2: zoelite, orange halo, red/white vein, outside: red, inside: transparent crystal, Fe-rich fluid, Fe-depleted fluid?

Structural Geology Observation Sheet

Exp.: 333 Site: G012G Core: B.R. 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	
															<p>P_{ab}: pyrite alteration.</p> <p>? ~ II, cc: Fe-hydroxide ab. with weak reducing ab.</p> <p>(-3 (22-37 cm) at the edge pyrite-filled</p>  <p>pyrite-filled vesicles</p> <p>CC-1 (~15 cm) areas showing brownish ab, thols red brown altered.</p>  <p>red amygdalites</p>

Structural Geology Observation Sheet

No. _____

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

