

Jan. 2, 2011

CHIKYU Operation

Structural Geology Observation Sheet

No. _____

Exp.: 333 Site: Coo/2E Core: IX Observer: A.Y. Summary: Greyish mudstone with sandstone layers & sand dykes.

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		
IX	1 sand dyke	35	38		270	28	180	20							<p>Sec. 1</p>	
	shear zone	133	136		270	3	cannot measured in CT									
	2	bedding	12	12		90	3	0	44							<p>Sec. 2</p>
		bed.	4	15		270	4	180	18							
		bed.	17	18		270	2	180	16							
		mineral vein	42	47		270	53	293	0							
		min. vein	48	52		270	38	0	86							
	sand dyke	59	72		270	59	337	0								
CC	mineral vein	1	4		90	47	26	0						<p>Compacted barrow is dyke truncated by sand dyke.</p>		



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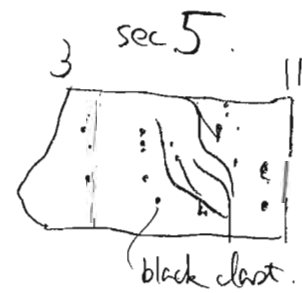
Exp.: 333 Site: Coo12E Core: 2X Observer: A.Y. Summary:

gray mud (site?)

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	
CC	mineral vein.				270	2	180	30							

Structural Geology Observation Sheet

Exp.: 333 Site: Coo DE Core: 3X 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	mineral vein	61	64		270	48	180	54							Sec. 1 0-72cm: light red 72-82cm: light grey & brown 82-140cm: light red Sec. 2: LW Sec. 4 0-42.5cm: ESWR, BSWR, HDWR 42.5-44cm: greenish gray 44-60cm: light red 60-65cm: greenish gray, bi-schubert 65-112cm: light red 111-140.5cm: FKWR, AHWR Sec. 5 0-3cm: light red 3-8cm: brownish red with many small black clasts. (clast size < 4mm) Sec. 6: LW Sec. 7 0-20cm: dark brown with black bands & black clasts. 20-42cm: brown. 42-50cm: dark brown. 50-76cm: light brown with yellowish brown bands 76-90cm: red 90-99cm: brown with veins & folds 99-114cm: dark purple, fragmented. 114cm ~ basalt.
	bedding	31	32		90	20	180	14							
3	min. vein	26	29		90	46	180	17							
4	bed.	44	45		270	3	0	7							Sec. 4 
	bed.	64	65		270	3	0	11							
	min. vein	81	85		90	45	0	7							
	vein	81	82		90	14	0	10							
5	cleavage	42	47		270	14	0	9							
	cleavage	65	69		270	15	0	10							
5	vein structure	5	9												
7	folded layers	87	91												
	mineral veins	89	99												
	vein fragments	99	113												Sec. 5 

Structural Geology Observation Sheet

Exp.: 333 Site: COOPE Core: TX-3X 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	
3X 1	fault (normal)	121	129						20	270					1X: grayish mud with sand layers & dykes. 2X: poor recovery, red clay in bottom. 3X: sec. 1-4: red clay with gray ash & brown clay sec. 5: black "chocolate-like" structure possibly manganese nodule or iron oxide sec. 7: 0-20cm: dark brown/black bands, 62-77cm: yellowish 90-100cm: folded & veined zones 100-114cm: fractured & veined. ↓ Basalt 113-114cm: light green, highly altered. 114-136cm: brecciated, altered to sec. 8

sec 5-7 include black clasts & layers, reflecting hydrothermal activity.