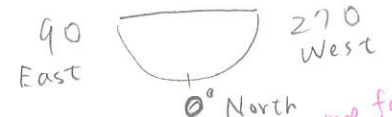


1/2

362-1480E

# STRUCT. MEASUREMENTS



Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame				Geographic Reference Frame				Comments	Link File		
												Plane Orientation		Lineation		Plane Orientation		Lineation					
												dip	strike	dip	trend	plunge	dip	strike	dip	trend	plunge		
1H - SECT 5	57	57			BEDDING	SHARP	<del>270</del>	<del>⊗</del>	<del>⊗</del>	1		270	♀	0	3								
SECT 6	23	23			BEDDING	SHARP	<del>⊗</del>	<del>⊗</del>	<del>⊗</del>	1		270	♀	0	3								
2H - SECT 3	100	100			Bedding	sharp				1		270	0	0	0	0						clay inject to sand	
4H - sec 2	111	115			clastic dike					1												completely crossed	
"	9 65 91	11 67 93			clastic dike					1												disaggregation	
"	121 107	123 110			"					1												"	
"	115 88	117 92			"					1												"	
4H - sec 3	11	13			clastic dyke					1												clay inject to sand partially-crossed	
"	26	30			"					1												sand inject to clay	
"	35 41	37 42			"					1												disaggregation	
"	47 53	51 56			"					1												"	
3H - sec 1 ~ 7	80	90			Bedding					0.9		90	2	180	14								
4H - sec 2 (1-4)	70	80			Bedding					0.9		90	1	180	10								
6H - sec 2	58	58			bedding	sharp						270	0	180	0								
9H - SECT 1	83	83			bedding							270	6	0	3								
10H - 2W	0	34			bedding	erosional (sharp)				0.9		90	3	180	15							turbidite interval (normal bed.)	
10H - 2W	36	44			bedding	erosional				0.1		270	36	0	10							Contact between sand and clay	
"	39	41			clastic dyke							270	28									(sand dyke) deposition process	
"	93	95																				rip-up clast.	
"	92	140			bedding							90	1	180	17							more than (turbidite) (normal bed.)	
10H - 4W	97	99			Fracture					0.3		270	6	0	22							shrinkage sites > release?	
10H - 5W	19 45 52	21 47 54			Fracture					"												"	
10H - CC	23 48	25 50			Fracture					"												"	
11H - 1W	0	150			Bedding					0.9		270	1	180	7							Turbidite (sand and clay)	
11H - 2W	0	131			Bedding					0.9		90 270	0	0	2							Turbidite (sand and clay)	

lor 2  
2 or 3  
Unloaded rest Logik.  
2 or 3

\* 78 - 94cm (measure)

\* 87-90 cm (measure)

2/2 362-1480 E

Measure 10-12 cm

W  
N 0°

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame				Geographic Reference Frame				Comments	Link File				
												Plane Orientation		Lineation		Plane Orientation			Lineation						
												dip dire	strike	dip	trend	plunge	dip dire	strike	dip			trend	plunge		
11 H 3W	0	150			Bedding					0.9		90	2	180	1								Turbidite (sand-clay)		
12 H 1W	4	113			bedding					0.9		270	1	0°	3								Turbidite (sand-clay)		
12 H 3W	46	77			Bedding					0.9		270	21	0	5								Turbidite (sand-clay)		
14 F 1W	14	16			Bedding					0.1		270	17												
14 F 1W	21	23			Bedding					0.4		270	4												
14 F 1W					slumping? (sedimentary)																				

core face dip  
2nd app.

362-1480 F

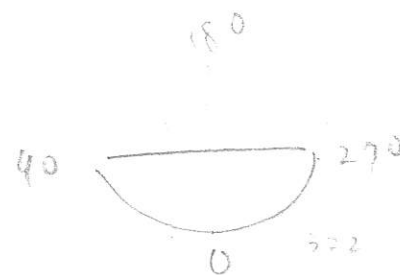
STRUCTURAL MEASUREMENTS

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame				Geographic Reference Frame				Comments	Link File		
												Plane Orientation			Lineation	Plane Orientation			Lineation				
												dip dire	strike	dip	trend DIP STR	plunge STRIKE	dip dire	strike	dip			trend	plunge
2H SECT 1 W	14	14			BEDDING	SHARP						270	1	0	4	346	256	4					
3H SECT 3 W	37	37			BEDDING	SHARP						270	1	180	1								
<del>4H SECT 2 W</del>												<del>270</del>	<del>4</del>										
5H SECT 2	23	23			Bed	SHARP						070	4	180	7								
6H SECT 3	2	2			Bed	SHARP						90	2	0	3								
12F 1 W	20	22			Bedding	Sharp				0.8		90	0.5	0	13								
12F 1 W	25	28			Bedding	Ero	confidence change to ~ P. 2 ?				0.8		90	52	180	2							
12F 1 W	89	90			Bedding	Ero				0.8		90	2.5	180	1								
12F 2 W	53	54			Bedding	Erosional				0.8		90	3	180	9								
12F 2 W	38	44			disaggregated (ayer partial folding)					0.3													sedimentary (slump?)
14F 1 W	21	23			Bedding					0.1	W	270	3	0	12								
14F 1 W	18	20			Bedding					0.4	W	270	14	0	21								
14F 1 W					slumping (sedimentary)																		
16F-1W	42	42			bed	sharp						90	0	0	2								
17F-1W	31	31			bed	sharp						270	1	0	3								
20F-2W	15	17			bedding	sharp				0.6?		270	1	0	8								
26F-2W	53	55			bedding	sharp				0.9		270	2	180	7								
27F-1W	135	140			bedding	sharp				0.7		90	1	180	2								
28F-1W					bedding	sharp						90	2	180	4.5								
33F-1W	SECT 1 15	15			bedding	sharp				0.8		270	1	180	1								
34X-1W	SECT 1 27	SECT 1 27			bed	spool				0.8		270	0	0	2								
37X-2W	14	14			bed	good				0.8		90	0	180	3								
55 X-3W	146.5	149.5			fault	normal				0.65		270	58	0	7	(58)							5mm offset no slickens possible too soft
55 X-4W	63	70			fault	normal				0.75		270	54	180	9	(54)							9mm offset to extent
	81	85			fault	normal				0.65		270	62	180	33	(62)							2mm offset surface

OK ✓

5717 prop gradient field

Sample	Top [cm]	Bottom [cm]	Top Depth	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame				Geographic Reference Frame				Comments	Link File
										Plane Orientation		Lination		Plane Orientation		Lination			
										dip dire	strike	dip	trend	plunge	dip dire	strike	dip		
55X-4W	108	111		fault normal				0.6		270	36	180	29	(42)			5mm offset		
55X-5W	68	76		fault normal				0.75		90	42	0	35	(49)		1cm offset	unable to view flt. face for striations		
"	87	91		fault normal				0.65		270	69	180	19	(6)		3mm offset			
" 5W	61.5	71.5		fault normal				0.4		270	55	0	15	(5)		3mm offset	hackly fault surface on core		
" 0W	4	8		fault normal				0.5		90	26	0	11	(2)		2mm offset	truncated burrows; maybe oblique		
" 17W	47	49		fault normal				0.3		270	41	0	13	(4)		2mm offset	low angle = d. strike		
56X-1W	68	70		fault normal				0.5		90	54	0	8	(2)		2mm offset	discuss		
56X-2W	43	44		Bedding						270	2	180	0.5	(2)					
56X-3W	54	58								90	36								
56X-3W	48	50		micro fault				0.5		-	-	-	-			2mm offset			
58X-1W	26	26		beddy	clay			0.9		90	4	0	4						
59X-1W	51	51		beddy	clay			0.9		90	0	180	4						



NE

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame				Geographic Reference Frame				Comments	Link File		
												Plane Orientation			Lineation	Plane Orientation			Lineation				
												dip dire	strike	dip	trend	plunge	dip dire	strike	dip			trend	plunge
U1480F59X	42	50	car chms)		fault	normal	70%				270/68; 180/37												
-	83	86	car chms)		fault	OK	✓				90/61; 18/10												
62X CC	26	29			fault	normal	0.7				90/42; 0/80												
64X 1W	51	51			bedd	sharp	0.9				270/2; 180/4												
U1480F65X-1	65	65			bedd		0.9				90/2; 0/6												
67X-1W	83	89			fault	OK	✓				270/28; 180/11												
-	92	95			fault	normal	0.6																
-	29	29			bedd	sharp	0.9				270/3; 180/11												
68X	78	78			bed	sharp				0.9	270/1	0/4											
68X	94	97			bed	sharp					0.4	270	39	180	6								
68X-3W	28	28			OK	✓					0.2	270	59	330	0								
72 X CCW	28	30			Bedding		0.8					90	20	180	2								
73 X CC	25	27			Bedding		0.9					90	10	180	2								
69 X 1 W	14	15			Bedding		0.9					270	0.5	0	2								
71 X 1W	66	67			Bedding		0.8					90	1	0	4								
71 X 1W	9	9			Bedding		0.8					270	4	180	0.5								
74 X 2W	9	9			Bedding		0.8					270	1	0	2								
76 X 1W	73	74			Bedding		0.8					90/270	0	180	2								
78 X 1W	11	12			Bedding		0.9					90	0.5	180	3								
78 X CC	9	11			Fault	Normal	NA					90	31	0	10						3 mm displace.	Syn sedimentary micro-normal fault	
"	7	9			Fault	Normal	NA					90	50	180	2						2 mm "	-/	
"	2	4			"	Normal	NA					270	53	180	9	a					2 mm "		
79 X 1W	105	109			fault	normal	0.2					270	45	0	22	b					2mm offset	fit ends at discont bndy	
79 X 2W	88	96			fault	normal	0.7					270	52	0	6						7mm offset	fit branches upward	
79 X CC	2	4			fault	normal	0.2					90	29	0	31	b					2mm offset	conjugate fit at top of section	



# U1480F STRUCTURAL MEASUREMENTS

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame			Geographic Reference Frame				Comments	Link File			
												Plane Orientation		Lineation		Plane Orientation		Lineation					
												dip dire	strike	dip	trend	plunge	dip dire	strike	dip	trend	plunge		
U1480F 80X CC	40	40			bedding	sharp						90/4	180/17										
	35	41			bedding							90/90	20/10										3cm thick deformed
U1480F 90X CC	75	77			bedding							270/2	180/7										
"	89	91			bedding							90/1	0/3										
U1480F 91X	33	35			bedding							90/1	189/5										
"	14	16			bedding							270/1	180/3										
"	86	87			bedding							270/1	0/1.5										
"	38	41			syn-sedimentary fault (burrow)												← 3mm displacement						
U1480F 92X	SECT1 92	WORK 92			bed	sharp						0.9	90	2			0	3					
U1480F 93X	SECT1 68	SECT1 68			Bed	sharp						0.9	90	1			180	3					
U1480F 94X	SECT1 91	SECT1 91			Bed	sharp						0.9	90	1			180	4					
U1480F 95X	SECT1 58	SECT1 58			Bed	sharp						0.9	90	1			0	1					

97X SECT1 25 SECT 25  
 97X 31 33  
 97X CC 39-41  
 //

Bed  
 Faults Normal  
 Faults Normal  
 //

0.6 270 1  
 0.6 90 31  
 0.6 270 32  
 " 90 54  
 0 2  
 344 0  
 0 330  
 0 16

It is harder to slip  
 the slip plane  
 conjugate  
 syn-sediment.  
 micro-normal  
 fault

OK ✓

Exp. 362 Structure Observation Sheet

Site: **U1480 G**

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files	
													Core face app. plunge azimuth	plunge	2nd app. plunge azimuth	plunge			Lineation rake
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overtur ned	uniform/variable	0 - 1.0		90 or 270				90 or 270		
2R	2W	89	89	BED	SHARP						1		90 or 270	0	0	0		90 or 270	
2R	2A	95	96	COMPACTION BAND	SHARP				planar		0.6		90 or 270	0	0	0		90 or 270	Parallel to bed. <sup>200</sup> <sub>100</sub> <sup>100</sup> <sub>200</sub>
2R	3A	7	10	"	"						0.6		90 or 270	0	0	0		90 or 270	Parallel to bed. <sup>200</sup> <sub>100</sub> <sup>100</sup> <sub>200</sub>
3R	4W	31	31	Bed	Sharp								90 or 270	4	180	3		90 or 270	
3R	4W	50	52	scaly str.							0.6		90 or 270					90 or 270	parallel to split surface.
3R	2W	11	12	Comp. band	sharp						0.6		90 or 270	4	180	3		90 or 270	
4R	3W	54	54	bed							1		90 or 270	1	0	2		90 or 270	
4R	1W	82	84	Fault	NORMAL						0.8		90 or 270	26	0	26		90 or 270	
4R	2W	108	110	Def. Band	} → fault, indeterminate						0.8		90 or 270	16	0	16		90 or 270	
4R	2W	76	78	Def. Band							0.8		90 or 270	130	180	15		90 or 270	
5R	1W	74	76	Bedding	sharp						0.8		90 or 270	1	0	4.5		90 or 270	
5R	1W	23	25	Bedding	sharp						0.8		90 or 270	1	0	0		90 or 270	
5R	2W	63	65	Bedding	"						0.8		90 or 270	1	0	2		90 or 270	
5R	2W	27	29	Bedding	"						0.8		90 or 270	0	0	2		90 or 270	
5R	3W	5	7	compaction band							0.2		90 or 270	0.5				90 or 270	
5R	4W	37	39	Bedding	Sharp						0.8		90 or 270	1	0	3		90 or 270	Organic-rich material (low organ)
6R	3W	21	24	Fold	recumbent/isoclinal						.1		90 or 270					90 or 270	Can't measure
6R	3W	36.5	40	"	"						.1		90 or 270					90 or 270	Orientation highly disturbed
6R	2W	11	13	Bedding	sharp						.7		90 or 270	2	180	3		90 or 270	
6R	2W	17	20	Fault	Normal						0.2		90 or 270	35	180	6		90 or 270	Probably drilling-induced/striation X
8R	4W	75	77	Bedding	sharp						0.8		90 or 270	2	0	4		90 or 270	
8R	1W	73	75	"	"						0.8		90 or 270	0.5	0	2		90 or 270	
8R	4W	57	60	Fault	Indeterminate						0.6		90 or 270	30	0	2	(3)	90 or 270	~2mm appatant offset
"													90 or 270	4			(4)	90 or 270	dip slip, conjugate step-horizonal lineation
8R	4W	67	69	Fault	Normal						0.3		90 or 270	16	1	0		90 or 270	conjugate
8R	4W	67	69	Fault	"						0.3		90 or 270	49	4	0		90 or 270	normal fault. 2mm app offset
8R	3W	69	72	"	Normal						0.3		90 or 270	42	0	12		90 or 270	

8R 3W 69 72 Fault Normal

0.3

90

35

indeterminate!

//

//

Exp. 362 Structure Observation Sheet

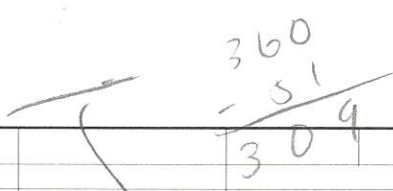
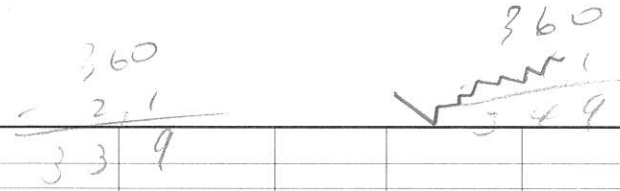
Site: 1480 HOLE G

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files		
													Core face app. plunge	2nd app. plunge		Lineation				
												azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overtur ned	uniform/variable	0 - 1.0		90 or 270	1 0	0 4			90 or 270		
U1480 G 11R	2W	43	43	bedding	sharp						1	90 or 270	0	0			90 or 270			
12R	1W	92	150	FOLDS	SWMP	RECU MBENT (AT THE BASE OF COAL-RICH LAYER)						90 or 270					90 or 270			
12R	2W	36	36	BED	SHARP						1	90 or 270	2	0	4		90 or 270			
13R	3W	43	43	BED	SHARP						1	90 or 270	2	0	1		90 or 270			
13R	1W	73	74	COMP. BAND	SHARP						0.8	90 or 270	8	0	9		90 or 270			
14R	3W	25	25	BED	SHARP						1	90 or 270	1	0	1		90 or 270			
14R	2W	44	63	FOLDS	SWMP	RECU MBENT						90 or 270					90 or 270			
15R	2W	106	108	bedding	sharp						0.9	90 or 270	2	0	0		90 or 270			
15R	2W	70	72	bedding	erosional						0.1	90 or 270	14	180	9		90 or 270		Below thick sand layer (debris flow?)	
15R	1W	76	77	bedding	erosional						0.1	90 or 270	8	0	3.5		90 or 270		"	
15R	2W	89	96	Concretion?	(folding?)						0.3	90 or 270	-	-	-		90 or 270			
16R	1W	15	17	bedding	sharp						0.9	90 or 270	0	0	2.5		90 or 270			
16R	1W	81	83	bedding	sharp						0.9	90 or 270	1	0	1		90 or 270			
17R	3R	60	64	bedding	sharp						0.9	90 or 270	0.5	180	3		90 or 270			
17R	1W	30	33	bedding	sharp						0.6	90 or 270	0	0	14		90 or 270		below thick sand layer	
17R	1W	75	77	bedding	sharp						0.9	90 or 270	1	180	3		90 or 270			
17R	3W	14	19	"	"						0.9	90 or 270	3	0	1		90 or 270			
18R	1W	34	36	bedding	sharp						0.9	90 or 270	0.5	0	2		90 or 270			
18R	4W	30	39	bedding	sharp						0.9	90 or 270	1	180	2		90 or 270			
19R	1W	21	21	bed	sharp						1	90 or 270	2	180	1		90 or 270			
20R	2W	41	41	bed	sharp						1	90 or 270	1	0	1		90 or 270			
19R	2W	15	15	COMP. BAND							0.8	90 or 270	3	0	1		90 or 270			
20R	3W	98.5	93.5	COMP. BAND							0.8	90 or 270	8	0	5		90 or 270			
21R	2W	29	29	bed	sharp						1	90 or 270	2	180	7		90 or 270			
22R	2W	32	32	Bed	sharp						1	90 or 270	3	0	4		90 or 270			
22R	1W	94	95	Normal Fault							0.2	90 or 270	19	0	11		90 or 270		GOOD STRUCTURE (NOT DRIVING INDUCED) BUT SENSEDIT.	
22R	1W	76	76	COMP. BAND							0.6	90 or 270	4	0	2		90 or 270			



Exp. 362 Structure Observation Sheet

Site:														Core Reference Frame				Link Files		
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge azimuth	plunge	2nd app. plunge azimuth	plunge	rake		from	Comments
Example						deformation band/shear band/slickenside/stickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/nastomosing/polygonal/broad/open/closed/tight/upright/overturbed	uniform/variable	0-1.0		90 or 270							
23R	1W	39	39	Bed	sharp							1	90 or 270	4	180	1			90 or 270	
24R	2W	98	100	Bedding	sharp						0.9		90 or 270	4	180	2			90 or 270	
24R	4W	82	85	Fault	Normal			1.5 mm			0.6		90 or 270	^	No measurement			90 or 270	several faults parallel	
24R	3W	33	36	Fault	Normal			0.5 mm			0.6		90 or 270	73	339	0			90 or 270	several faults parallel
<del>24R</del>	<del>5W</del>	<del>96</del>	<del>98</del>										90 or 270	73	107	0			90 or 270	
24R	5W	94	98	Fault	Normal			0.5 mm			0.6		90 or 270	76	349	0			90 or 270	no striations several faults
25R	4W	115	117	Bedding	sharp						0.9		90 or 270	1	0	2			90 or 270	
25R	1W	58	60	Fault	Normal			1.5 mm			0.6		90 or 270	62	15	0			90 or 270	several faults parallel, no striations
25R	4W	53	55	Bedding	sharp						0.9		90 or 270	4	180	2			90 or 270	
25R	2W	108	110	Fault	Normal			2 mm			0.6		90 or 270	42	309	0			90 or 270	"
25R	4W	100	102	Bedding	erosional								90 or 270						90 or 270	Curvy, erosional bedding, contact
26R	3W	76	78	Bedding	sharp						0.75		90 or 270	11	0	0			90 or 270	
26R	3W	20	25	Fault	Normal			5 mm			0.65		90 or 270	37	180	8	34		90 or 270	synthetic cracks/fractures
26R	3W	27	29	Fault	Normal			—			0.60		90 or 270	13	180	25	63		90 or 270	"
26R	3W	40	45	Fault	Normal			10 mm			0.65		90 or 270	44	180	6	12		90 or 270	"
26R	4W	98	100	Fault	Normal			2 mm			0.7		90 or 270	16	3	0			90 or 270	small, multiple faults
"	"	96	99	"	"			1.5 mm			0.7		90 or 270	10	331	0			90 or 270	
26R	3W	58	63	"	"			15 mm (1.5 cm)			0.7		90 or 270	48	180	31	23		90 or 270	synthetic cracks/fractures
"	"	55	59	"	"			10 mm			"		90 or 270	10	31	0	12		90 or 270	"
"	1W	100	102	Bedding	sharp						0.8		90 or 270	2	0	0			90 or 270	
"	6W	19	20	"	"						0.8		90 or 270	1	0	0			90 or 270	
27R	1W	66	66	Bed	sharp						1		90 or 270	1	180	6			90 or 270	
	3W	79.8	83.5	SHEAR BAND INTERNAL FABRIC							1		90 or 270	23	180	25			90 or 270	55-87 intact piece for balancing
	3W	79.8	83.5	SHEAR BAND							1		90 or 270	6	180	6			90 or 270	
	1W	63	65	NORMAL FAULT							0.1		90 or 270	41	180	40	38		90 or 270	
	2W	34	35	NORMAL FAULT PET							0.8		90 or 270	51	344	0			90 or 270	



55-87 intact piece for balancing

Exp. 362 Structure Observation Sheet

Site: U1480 G

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files		
													Core face app. plunge	2nd app. plunge	Lination					
												azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overturned	uniform/variable	0-1.0		90 or 270					90 or 270		
28R	1W	64	64	BED	SHARP						1		90 or 270	5	0	1		90 or 270		
<del>30R</del>	1W	58	58	BED	SHARP						1		90 or 270	2	180	7		90 or 270		
29R	1W	76	76								1		90 or 270	2	0	2		90 or 270		
28R	1W	44	44			fault		Y	planar		1	displaced burrow	90 or 270					90 or 270	bedding parallel	
31R	1W	69	69	Bed	sharp						1		90 or 270	4	0	1		90 or 270		
32R	1W	52	52	Bed	sharp						1		90 or 270	1	180	9		90 or 270		
"	2W	136.5	138.5			DB	compaction		planar				90 or 270	17	0	3		90 or 270		
"	3W	9.5	10.5										90 or 270	6	0	7		90 or 270		
34R	1W	73	75	Bedding	sharp						0.9		90 or 270	0	0	1		90 or 270		
33R	1W	59	61	Bedding	sharp						0.9		90 or 270	0	0	1		90 or 270		
34R	2W	60	62	"	"						0.7		90 or 270	4.5	180	6		90 or 270	Continuous below thick sand layer	
35R	1W	60	62	Bedding	sharp						0.8		90 or 270	4	0	1		90 or 270		
36R	2W	109	110	Bedding	sharp						0.8		90 or 270	2	0	1.5		90 or 270		
37R	1W	75	77	Bedding	Erosional						0.7		90 or 270	1	0	1.5		90 or 270		
37R	1W	83	84	"	sharp						0.8		90 or 270	0.5	0	2		90 or 270		
"	"	18	20	"	sharp						0.8		90 or 270	0.5	180	1		90 or 270		
39R	2W	36	37	Bedding	sharp						0.8		90 or 270	1	180	1		90 or 270		
37R	2W	57	100	Sand injection (brecciated!)						0.4			90 or 270					90 or 270	competence contrast is small!	
37R	1W	47	49	Rip-up clast						0.2	0.4		90 or 270	5	180	24		90 or 270	sand layer	
37R	2W	13	16	Bedding	sharp								90 or 270					90 or 270		
													90 or 270	16	180	4		90 or 270		
38R	4W	75	75	Bedding	sharp								90 or 270	5	0	6		90 or 270		
39R	1W	58	58.5	Bed	sharp								90 or 270	7	0	10		90 or 270		
	2W	12	12	Bed	sharp								90 or 270	2	180	7		90 or 270		
40R	1W	44	44	Bed	sharp								90 or 270	3	180	2		90 or 270		
													90 or 270					90 or 270		
38R	4W	81	81	Vein	Colcite	1mm thick							90 or 270	4	0	6		90 or 270		
4A		83	86	Vein	Colcite	shear 1mm thick							90	31	0	6				

0.4  
0.2  
0.4  
contact

competence contrast is small!  
sand layer

bedding parallel

Continuous below thick sand layer

Exp. 362 Structure Observation Sheet

Site:				Core Reference Frame																		
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		2nd app. plunge		Lineation		Comments	Link Files		
													azimuth	plunge	azimuth	plunge	rake	from				
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/nastomosing/polygonal/broad/open/closed/light/upright/overtur ned	uniform/variable	0-1.0		90 or 270									
41R	1	55	55	Bed	sharp								90 or 270	6	0	1						
42R	3	53	54	Bed	sharp								90 or 270	9	0	11						
43R	1	46	48	Bed	sharp						0.8	0.8	90 or 270	1	0	4						
43R	2	46	48	Bed	sharp						0.7	0.7	90 or 270	5	180	4						
43R	3	79	81	Bed	sharp						0.8	0.8	90 or 270	3	180	1						
"	"	55	57	Bed	sharp						0.7	0.7	90 or 270	4	180	4						
"	"	19	19	Bed	sharp						0.7	0.7	90 or 270	0.5	180	5						
44R	1	64	70	"	"								90 or 270	1							Black clay	
"	2	75	77	"	"						0.8	0.8	90 or 270	9	180	7					light green clay	
"	2	70	85	"	"						0.8	0.8	90 or 270	4.5	180	3					Black clay	
"	1	86	87	Bed	sharp						0.9	0.9	90 or 270	4	180	5					Black clay	
"	3	5	7	"	"						0.7	0.7	90 or 270	6	180	5					clay.	
"	4	80	82	"	"						0.8	0.8	90 or 270	1	0	1					clay	
45R	1	64	66	Bed	erosional						0.8	0.8	90 or 270	7	0	1						
45R	2	108	110	"	sharp						0.8	0.8	90 or 270	0	0	5						
45R	3	113	115	Bed.	sharp						0.8	0.8	90 or 270	6	180	4						
45R	3	85	88	Bedding	sharp						0.8	0.8	90 or 270	7.8	0	3						
45R	4	102	104	Bedding	sharp						0.8	0.8	90 or 270	2	0	3						
45R	2	42	44	Bedding	sharp						0.7	0.7	90 or 270	3	0	3						
46R	1	71	73	Bedding	sharp						0.8	0.8	90 or 270	1	0	0						
46R	3	15	17	Bedding	sharp						0.8	0.8	90 or 270	3	0	0						
48R	1	42	43	Bed	sharp						0.8	0.8	90 or 270	5	180	4						
49R	1	66	66	Bed	sharp						0.8	0.8	90 or 270	2	0	1						
	6	68	68	Bed	sharp						0.8	0.8	90 or 270	4	180	5						
SOR	1	20	20	Bed	sharp						0.9	0.9	90 or 270	7	0	2						
SOR	1	81	81	Fold	DEBRIS FLOW	INTERSECTION OF THE AXIAL PLANE W/ THE SPLIT SURFACE							90 or 270	6 (?)								PALEOMAG 71-81
		81	81	"	"	INTERSECTION OF UPPER LIMB W/ SPLIT SURFACE							90 or 270	19								"

Not drilling induced  
not rd. mantle



Exp. 362 Structure Observation Sheet

Site:				Core Reference Frame																	
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		2nd app. plunge		Lineation		Comments	Link Files	
													azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/light/upright/overtur ned	uniform/variable	0-1.0		90 or 270								
SOR	1	111	112	FOLDS	DEBRIS FLOW		INTERSECTION		UPPER LIMB				90 or 270	20							PAGE 144
	1	111	112	h	h		INTERSECTION		LOWER LIMB				90 or 270	2							P3-125
	1	111	112	h	h		INTERSECTION		AXIS TRACE				90 or 270	16							4
51R	300	19	35	Breccia	clast-supported					Variable	0.4		90 or 270	7							Drilling-induced
51R	1	144	146	Bedding	sharp						0.8		90 or 270	7	0	1					
51R	2	69	71	"	sharp						0.8		90 or 270	3	0	3					
51R	1	35	36	Bedding	sharp						0.7		90 or 270	4	0	3					
52R	1W	127	128	Bedding	sharp						0.8		90 or 270	2	0	0					
52	2W	88	89	Bedding	sharp						0.7		90 or 270	2	0	1					
52	3W	52	54	Bedding	sharp						0.8		90 or 270	7	0	6					Bedding dip change due to biscuit?
52	1W	14	16	Bedding	sharp						0.8		90 or 270	10	0	1					
53	2W	120	122	Erosional	bedding						0.9		90 or 270	2	180	2					
53	3W	20	22				INTERSECTION		Upper limb				90 or 270	7							P-mag (12-14) (32-35) P-mag (12-14) P-mag Zhao (12-14) (5-7) P-mag (12-14)
	"	"	"				"		Lower limb				90 or 270	5							
	"	"	"				Axis trace						90 or 270	0							
53	2W	21	22				Intersection		Upper limb				90 or 270	43							
"	"	21	22				Intersection		Lower limb				90 or 270	40							
"	"	21	22				Axis trace						90 or 270	30							
"	"	96	98				Intersection		Upper limb				90 or 270	10							
"	"	96	98				Intersection		Lower limb				90 or 270	12							
"	"	96	98				Axis trace						90 or 270	7							
"	"	28	30				Inters.		Upper limb				90 or 270	16							
"	"	"	"				Inters.		Lower limb				90 or 270	18							
"	"	"	"				Axis trace						90 or 270	1							
"	"	15-17					Upper limb						90 or 270	15							
"	"	15	17				Lower limb						90 or 270	2							
"	"	17	17				Axis trace						90 or 270	11							

43.5  
-39.5  
4.0

350  
7  
357

Exp. 362 Structure Observation Sheet

Site:				Core Reference Frame																	
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge	Lineation rake from		Comments	Link Files	
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overtur ned	uniform/variable	0-1.0		90 or 270					90 or 270			
53R	2W	22	24			white(?) band in sandstone							90 or 270	17	180	26					
54R	1W	61	61	Bed	sharp							0.8	90 or 270	1	0	4					
	4W	129.6	129.6	Vein	external	colite						0.8	90 or 270	1	0	4					
55R	2W	53	53	Bed	sharp							0.8	90 or 270	2	180	4					
	7W	69	69	Bed	sharp							0.8	90 or 270	6	0	11					
56R	3W	39	39	Bed	sharp							0.9	90 or 270	11	0	1					
57R	3W	5	7	Bed	Normal			1.5 mm				0.9	90 or 270	70	6	0				Multiple parallel faults.	
57R	3W	37	45	Small Fault	(vein structure?)			0.5 mm	Normal			0.7	90 or 270	84	14	0				Small multiple faults	
57R	4W	1	3	Fault				1mm				0.7	90 or 270	86	398	0				=	
"	"	15	20	Small Fault								0.7	90 or 270	82	392	0					=
"	"	9	9	Bedding	sharp							0.8	90 or 270	3	180	4					
"	7W	35	38	Small Fault								0.6	90 or 270	45	353	0					Conjugate fault
"	"	80.5	81.5	Intersection upper limb								0.2	90 or 270	39	-	-					P-mag?
"	"	80.5	81.5	Lower limb				small slump?				0.2	90 or 270	7	-	-					
"	"	80.5	81.5	Axial								0.2	90 or 270	17	-	-					
"	"	13	23	Small Fault									90 or 270	72	19	0					
"	"	22	24	Bed	sharp							0.7	90 or 270	9	0	5					
"	"	35	38	Small Fault								0.6	90 or 270	52	353	0					Conjugate fault
58R	2W	29	31	Bedding	sharp							0.7	90 or 270	7	0	3.5					(Biscuits)
"	3W	6	8	bedding	sharp							0.6	90 or 270	6	0	1					Be careful on confidence
58R	5W	49	51	Bedding	sharp								90 or 270	1	0	0					P-mag 33-35cm
58R	6W	37	49	Fault	Normal			3.0 cm offset				0.8	90 or 270	69	350	0	84				multiple parallel fault (vein structure?)
58R	4W	84	87	Fault	Normal			0.5 mm offset				0.6	90 or 270	76	5.5	0					
58R	4W	109	111	Bedding	sharp							0.7	90 or 270	4	180	2					
59R	4W	32	33	Bedding	sharp							0.7	90 or 270	5	0	2					
59R	3W	65	67	Bedding	sharp							0.7	90 or 270	1.5	180	1.5					

conjugate fault

P-mag 33-35cm

Exp. 362 Structure Observation Sheet

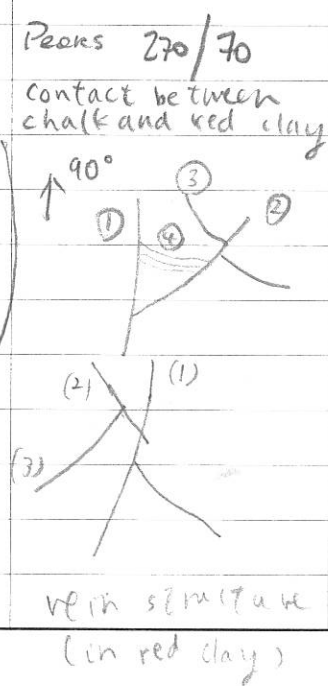
Site:														Core Reference Frame				Link Files		
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge	Lineation rake		Lineation from	Comments
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overtur- ned	uniform/variable	0-1.0		90 or 270					90 or 270		
62R	1W	1	9	vein	planar							1	90 or 270	58	180	32		90 or 270		> 4cm thick, green
		6	16	vein	"							1	90 or 270	59	11	0		90 or 270		> 0.5 ~ 1cm thick, green
		15	21	vein	"							1	90 or 270	45	21	0		90 or 270		0.5 thick, green
		27	27	"	"							1	90 or 270	0	0	0		90 or 270		0.02 ~ 0.1 cm, green.
		37	44	"	"							1	90 or 270	90	75	0		90 or 270		0.2 cm thick, green.
		52	52	"	wavy							1	90 or 270	4	180	3		90 or 270		< 0.02 thick, white
		50	52	"	"							1	90 or 270	90	340	0		90 or 270		-
		67	69	"	"							1	90 or 270	57	5	0		90 or 270		-
		66.7	67	"	"							1	90 or 270	21	23	0		90 or 270		-
		84	85	"	"							1	90 or 270	11	350	0		90 or 270		-
		85	87	"	"							1	90 or 270	48	336	0		90 or 270		-
		116.5	117	"	"							1	90 or 270	12	339	0		90 or 270		-
62R	2W	3	4	"	"							1	90 or 270	11	180	2		90 or 270		-
		6.7	7.3	"	"							1	90 or 270	3	0	2		90 or 270		-
		10.4	10.4	"	"							1	90 or 270	2	180	9		90 or 270		-
		32	33.3	"	"							1	90 or 270	4	0	0		90 or 270		-
		35	36.5	"	"							1	90 or 270	36	180	55		90 or 270		-
		44	45	"	"							1	90 or 270	15	0	0		90 or 270		-
		39	71	"	"							1	90 or 270	79	0	1		90 or 270		0.2 thick, white
		58.5	59.3	"	"							1	90 or 270	8	180	71		90 or 270		1cm
		88	92	"	"							1	90 or 270	36	0	76		90 or 270		0.02 thick, white
62R	3W	2.5	6.5	"	"							1	90 or 270	60	0	75		90 or 270		0.02 ~ 0.1 thick, white
		2	9.5	"	"							1	90 or 270	85	180	80		90 or 270		-
		9.5	20	"	"							1	90 or 270	42	0	80		90 or 270		0.02 thick white
		27.5	29	"	"							1	90 or 270	10	180	47		90 or 270		-
		45	45.5	"	"							1	90 or 270	6	0	60		90 or 270		0.3 cm thick, white
		73	94	"	"							1	90 or 270	85	7	0		90 or 270		0.02 cm thick, white

Exp. 362 Structure Observation Sheet

Site:				Core Reference Frame																Link Files	
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		2nd app. plunge		Lineation		Comments	Link Files	
													azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/nastomosing/polygonal/broad/open/closed/tight/upright/overtur ned	uniform/variable	0-1.0		90 or 270								
5QR	1W	38	39	Bedding	sharp						0.7	(Breccia)	90 or 270	0.5	180	3					
5Q	3W	21	25	Normal	Fault			3mm offset			0.7		90 or 270	31	180	69	45				
5Q	2W	33	35	Fault	Normal			< 0.5 mm offset			0.6		90 or 270	66	?	<del>40</del>					Small matrix faults (parallel)
60	1W	88	96	fault	normal						0.5		90 or 270	57	2	0	0				1cm offset.
	1W	107	109	fault	normal						0.7		90 or 270	23	57	0					
	1W	42	46	fault	normal						0.2		90 or 270	26	0	15	52				
	2W	5	5	vein							0.6		90 or 270	11	0	5					
	3W	23	30	fault	normal						0.2		90 or 270	46	350	0	19				
	2W	18	23	fault	normal						0.8		90 or 270	13							
	5W	30	36	shear zone	normal				quosbwoizing		0.9		90 or 270	54							unfavorable to measure vertical dip-
	5W	37	39	shear zone	normal				planar		0.9		90 or 270	16							
	5W	37	42	shear zone	normal				amost		0.9		90 or 270	56							
	6W	7	18	shear zone	normal				amost		0.9		90 or 270	60							
	6W	15	20	shear zone	normal				amost		0.9		90 or 270	49							
	6W	92	92	bed	Sharp						0.9		90 or 270	11	0	1					
	6W	105	109	fault	normal						0.9		90 or 270	59	40	0					
	6W	96	97	Stylolite							0.9		90 or 270	23	180	10					Peaks 270/70
	61	1W	38	Bedding	sharp						0.8		90 or 270	7	180	6					contact between chalk and red clay
①	61	1W	104	fault	Indeterminate			offset?			0.8		90 or 270	2	0	48					
③	61	1W	127	fault	Normal			offset?			0.8		90 or 270	51	0	44					
②	61	1W	142	fault				offset?			0.8		90 or 270	18		?					
④	61	1W	117	fault	Normal			0.6 cm offset			0.8		90 or 270	68	23	0?	16				
③	61	1W	72	fault	Normal			~1.5 mm offset			"		90 or 270	46	16	0					
④	"	"	74	fault	Normal			0.8 cm offset			"		90 or 270	11							
(2)	"	"	73	fault				? <del>0.8</del> offset			"		90 or 270	32	0	26					
(2)	"	"	59	fault	(Normal)			1mm offset?			"		90 or 270	53	354	0					
(2)	"	"	39	small fault?				? offset.			"		90 or 270	82							with signature? (in red clay)

(vein structure?)

? same piece 94-148



Exp. 362 Structure Observation Sheet

Site:														Core Reference Frame				Link Files	
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge	rake		from
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overturbed	uniform/variable	0-1.0		90 or 270					90 or 270	
61R	1W	28	30	Fault	Normal	3mm offset					0.8		90 or 270	49	320	0		90 or 270	Bedding layer boundary
"	"	55	56	Bedding	sharp						0.8		90 or 270	3	180	8		90 or 270	within red clay
"	"	88	90	"	"						0.8		90 or 270	11	180	3.5		90 or 270	Black layer within red clay
													90 or 270					90 or 270	
② 61R	2W	4	16	Fault	Normal				PLANAR		0.8		90 or 270	63	180	26		90 or 270	} Plow of 1-18
① 61R	2W	0	8	Fault	Normal				ANASTOMOISING		0.8		90 or 270	56	0	26		90 or 270	
① 61R	2W	3	7	Fault	Normal				PLANAR		0.8		90 or 270	17	??	??		90 or 270	
61R	2W	45	49	Fault	Normal				Plow		0.8		90 or 270	26	0	19		90 or 270	
61	2W	73.5	73.5	STYUO							0.8		90 or 270	1	180	14		90 or 270	Peaks L to STY. SURFACE
		74	74	STYUO							0.8		90 or 270	1	180	15		90 or 270	h
		74.5	74.5	h							0.8		90 or 270	0	180	14		90 or 270	h
		79	79	h							0.8		90 or 270	5	180	9		90 or 270	h
		81	81	h							0.8		90 or 270	6	180	13		90 or 270	h
		86	86.5	h							0.8		90 or 270	5	180	5		90 or 270	h
		88	88	h							0.8		90 or 270	2	180	3		90 or 270	h
		90	91	h							0.8		90 or 270	16	180	8		90 or 270	
		92	92	h							0.8		90 or 270	4	0	5		90 or 270	
		94	94	h							0.8		90 or 270	9	0	1		90 or 270	
		104	104	Bed	sharp						0.8		90 or 270	5	0	7		90 or 270	
		118	123	Fault	Reverse				Plow		0.8		90 or 270	42	0	34		90 or 270	intersecting w sty
		125	125	STYUO							0.8		90 or 270	2	0	1		90 or 270	
		128	128	STYUO							0.8		90 or 270	1	0	15		90 or 270	
		128.5	128.5	h									90 or 270	2	0	2		90 or 270	
		129.5	129.5	h									90 or 270	4	0	3		90 or 270	
		131	131	h									90 or 270	10	180	2		90 or 270	
		133	133	h									90 or 270	5	0	25		90 or 270	
													90 or 270					90 or 270	



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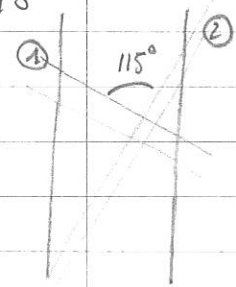
Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files		
													Core face app. plunge	2nd app. plunge	Lineation					
												azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overtur ned	uniform/variable	0-1.0		90 or 270					90 or 270		
61R	3W	16	13	Fault	Normal				listric			90 or 270	26	0	28		90 or 270			
	3W	74	77	Fault	Normal				Wavy			90 or 270	17	180	11		90 or 270			
		83	84	Fault	Normal				almost			90 or 270	10	180	15		90 or 270			
		95	97	Fault	Normal				Planar			90 or 270	5	180	14		90 or 270			
		103	104	STYLO								90 or 270	3	180	2		90 or 270			
		105	105	"								90 or 270	1	180	1		90 or 270			
		106	106	"								90 or 270	3	180	2		90 or 270			
		107	107	"								90 or 270	2	180	2		90 or 270			
		109	109	"								90 or 270	2	180	2		90 or 270			
		110	113	Fault	Normal							90 or 270	22	0	15		90 or 270			
		116	116	STYLO								90 or 270	4	180	3		90 or 270			
		120	120	STYLO								90 or 270	3	0	20		90 or 270			
	4W	2	6	Fault	N							90 or 270	34	0	15		90 or 270		Blowup see p 036 	
		7	8	Fault	N							90 or 270	12	180	5		90 or 270			
		9	10	Fault	N							90 or 270	16	180	14		90 or 270			
		7	10	Fault	R							90 or 270	24	0	48		90 or 270			
		10	12	Fault	N							90 or 270	16	180	12		90 or 270			
		12	13	Fault	N							90 or 270	5	180	1		90 or 270			
		16	18	Fault	N							90 or 270	21	180	12		90 or 270			
		54	56	Bed	Sharp							90 or 270	9	0	9		90 or 270			
		60	61	STYLO								90 or 270	8	0	14		90 or 270			
		81	81	DEF. BAND		D.B.	COMP		PLANAR			90 or 270	3	180	3		90 or 270			
		95	96	Fault	Normal							90 or 270	17	180	40		90 or 270			
		95	97	"	"							90 or 270	18	180	40		90 or 270			
		96	98	"	"							90 or 270	16	180	39		90 or 270			
	①	107	110	Fault	Norm							90 or 270	22	180	15		90 or 270		Blowup 99-136	
	②	107	112	Fault	Norm							90 or 270	31	0	40		90 or 270			

Exp. 362 Structure Observation Sheet

Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		Core Reference Frame 2nd app. plunge		Lineation		Comments	Link Files												
													azimuth	plunge	azimuth	plunge	rake	from														
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygon al/broad/open/closed /tight/upright/overtur ned	uniform/variable	0-1.0		90 or 270																			
②	4W	121	125	Fault	Normal								90 or 270	20	180	5					Following											
①		122	125	Fault	Normal								90 or 270	28	0	47					99-136											
		125	134	Fault	norm								90 or 270	54	0	46					↓											
	SW	14	16	STYU									90 or 270	4	0	28																
		16	19	Fault	inclin.								90 or 270	24	0	46																
<p>From 25cm to 147cm there are 2 /referred sets of faults. their cross-cutting relationships are indicating that [90/37-0/26] is cutting [270/43-180/16]*-[1] is also cutting a sand injection at 44-48 cm.</p> <p>Around the faults there is a 2-3mm thick discoloration halo when dry</p> <p>* Better observation:</p> <p>① 90/37 0/26</p> <p>② 270/43 180/16</p> <p>Even though cross-cutting have been observed, the size and the recurrent lack of displacement of [1] by [2] indicate that the 2 sets are pretty close in time, to contemporaneous. the "conjugate" angle is 115° indicating compaction and "feathering" /ost faulting - ↑</p>													<p>↑ indicating cumulation along the faults</p>																			
①	SW	26	30	Fault	Norm								90 or 270	32	0	26					Following											
②	SW	30	36	Fault	Norm								90 or 270	43	180	16					here											
①		25	29	"	"								90 or 270	36	0	49					26-127											
①		29	30	"	"								90 or 270	16	0	13																
②		30	32	"	"								90 or 270	26	180	28																
②		30	36	"	"								90 or 270	51	180	7																
①		33	35	"	"								90 or 270	15	0	25																
①		35	38	"	"								90 or 270	30	0	35																
②		36	48	"	"								90 or 270	62	180	30																
		38	43	"	"								90 or 270	36	180	33																
		44	48	Sand injection									90 or 270																			
		43	44	fault	Norm								90 or 270	39	180	39																



Exp. 362 Structure Observation Sheet

Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files	
													Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge			Lineation rake
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overturbed	uniform/variable	0-1.0		90 or 270				90 or 270		
GIR	SW	45	51	Fault	N				Swast				90 or 270	68	180	22		90 or 270	
		50	54	Fault	N				h				90 or 270	32	0	29		90 or 270	
		55	58	F	N				h				90 or 270	28	0	22		90 or 270	
		58	64	F	N				h				90 or 270	42	180	5		90 or 270	
		66	68	F	N				h				90 or 270	21	0	33		90 or 270	
		73	76	F	N				h				90 or 270	62	0	45		90 or 270	
		75	88	F	N				h				90 or 270	52	0	9		90 or 270	
		80	85	F	N				h				90 or 270	33	0	40		90 or 270	
		87	90	h	h				h				90 or 270	25	180	25		90 or 270	
		90	96	h	h				h				90 or 270	51	0	32		90 or 270	
		91	95	F	N				h				90 or 270	40	0	7		90 or 270	
		95	100	F	N				h				90 or 270	36	0	48		90 or 270	
		95	99	F	N				h				90 or 270	45	180	25		90 or 270	
		98	101	F	N				h				90 or 270	23	0	23		90 or 270	
		102	104	F	N				h				90 or 270	5	0	31		90 or 270	
		103	108	F	N				h				90 or 270	42	0	24		90 or 270	
		109	113	F	N				h				90 or 270	26	0	30		90 or 270	
		111	116	F	N				h				90 or 270	35	0	23		90 or 270	
		108	114	F	N				h				90 or 270	47	180	41		90 or 270	
		113	124	F	N				h				90 or 270	68	320	0		90 or 270	
		125	134	F	N				h				90 or 270	75	345	0		90 or 270	
		128	131	F	N				h				90 or 270	14	0	23		90 or 270	
		131	134	F	N				h				90 or 270	30	0	19		90 or 270	
	①	136	141	F	N	Beauk Ge Cross Cut!			h				90 or 270	27	0	32		90 or 270	
	②	137	143	F	N				h				90 or 270	40	0	52		90 or 270	
	②	133	140	F	N				h				90 or 270	51	318	0		90 or 270	
													90 or 270					90 or 270	

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36-  
78  
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Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Structure	Struct_detail	Obs_1	Obs_2	Obs_3	Conf_Struct	Conf_Struct_detail	Core Reference Frame			Geographic Reference Frame				Comments	Link File	
												Plane Orientation		Lineation	Plane Orientation		Lineation				
												dip	dire	strike	dip	trend	plunge	dip			strike
62R-3W	23.5	23.5			ven	wavy				270/1	180/12									0.02 cm thick, white	
	29.5	29.5			-	-				90/5	0/42									0.02-0.1 thick, white	
	27.3	28			-	-				270/11	0/4									-	
	110	112			-	-				90/36	180/68									0.02 cm thick, white	
	116	116			-	-				90/11	180/21									-	
62R-4W	6.5	8			-	planar				90/10	0/10									0.2 <sup>cm</sup> thick, light green	
	27	27			ven	wavy				270/1	0/34									<0.02 cm thick, white	
	79	80			-	-				90/11	0/0									0.05 cm thick, white	
	98	98			-	-				90/0	0/14									<0.02 cm thick, white	
	113	113.5			-	-				90/36	180/30									0.05 cm thick, weathered	
G1R-7W	9	13			fault	normal	planar			90/29	180/33	33/270								drilling induced	
	14.5	17			-	-	-			270/22	0/1	20/270								-	
	18	19.4			bedding		sharp			90/15	180/9										
	21	21			fault		planar			270/19	180/6	38/270								drilling induced	
	20.5	24			fault		curved			90/64	38/0	20/0								-	
	52	52			-	normal	curved			270/14	0/28	78/270								-	
G1R-6W	0	4.5			fracture	normal	wavy			270/60	70/0									natural, leaching	
	6	7.4			fault		planar			90/10	0/60									-	
	17	33			fracture		wavy			90/85	36/0									-	
	17	25			-		-			270/80	282/0									-	
	23	25			-		-			90/55	28/0									-	
	22.5	24.5			-		-			90/56	2/0									-	
	34	39			fracture		-			270/71	0/44									-	
	37.5	39			fracture		-			90/21	0/51									-	
	40	51			fracture		-			90/85	24/0									-	

bridge leach?



Exp. 362 Structure Observation Sheet

Site: 1480 G

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		Core Reference Frame 2nd app. plunge		Lineation		Comments	Link Files
													azimuth	plunge	azimuth	plunge	rake	from		
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overtured	uniform/variable	0-1.0		90 or 270					90 or 270		
65R	1	41	13	Fault	Indeterminate				Planar				90 or 270	62	355	0			90 or 270	
65R	1	14	18	Fracture					planar				90 or 270	20	347	0			90 or 270	
"	"	75	78	Fault	(Normal)	(cut-off = 36°)			Wavy	Not Drilling	0.75	High C that not drilling + high conf that ch. is syn-sed	90 or 270	47	180	7			90 or 270	3mm offset CURVY syn sed cuts fault
"	"	74	76	fold	upper limb								90 or 270	6	332	0			90 or 270	
"	"	74	76	fold	lower limb								90 or 270	4	180	9			90 or 270	
"	"	"	"	"	axis								90 or 270	1					90 or 270	
"	"	75	78	Fault	(Normal)	(cut-off = 31°)			Wavy		0.75		90 or 270	15	180	7			90 or 270	5mm offset Curvy syn sed likely rotate
"	"	109	111	bedding	sharp	(possible lower limb of large fold)			large fold		0.6		90 or 270	25	13	0			90 or 270	
"	"	112	115	Fault	(indt)	(cut-off = 0°)			Planar		0.6		90 or 270	17	180	41	45		90 or 270	
"	"	120	125	Fault	(Normal)	(Fault associated with shear zone 120-124 cm thick)			curvy		0.7		90 or 270	56	180	6			90 or 270	offset 3mm
"	"	99	101	Fold	upper limb						0.8		90 or 270	32	180	24			90 or 270	
"	"				lower limb				likely		0.8		90 or 270	25	180	24			90 or 270	
"	"				axis				syn		0.8		90 or 270	32					90 or 270	
"	"	106	108	fold	upper limb				sed		0.8		90 or 270	33					90 or 270	
"	"	107	108	fold	lower limb						0.8		90 or 270	20.5					90 or 270	
"	"	106	108	fold	axis						0.8		90 or 270	28					90 or 270	
"	"	94	98	bedding	sharp	(possible lower limb of large fold)							90 or 270	32	0	11			90 or 270	
"	"	131	135	Fault	normal	(cut-off angle = 35)			curvy				90 or 270	52					90 or 270	
"	"	136	140	Fault	normal	(cut-off angle = 46)			Planar				90 or 270	54	348	0	19		90 or 270	offset 2mm
"	"	126	129	Shear zone	(indt)	(.5 to 1.5 cm thick)							90 or 270	29	0	21			90 or 270	
"	"	143	147	Fault	(Normal)	(cut-off angle = 39)			Planar		0.8	Not Drilling	90 or 270	38	0	30			90 or 270	offset 1cm
"	"	143	145	Bedding									90 or 270	7	0	3			90 or 270	
"	"	76	78	Bedding									90 or 270	1	0	0			90 or 270	
"	"	46	52	Fault		(cut-off = 63°)							90 or 270	75	349	0			90 or 270	
"	"	25.5	27.5	Fault	(indt)	(cut-off = 66°)							90 or 270	20	0	34			90 or 270	
"	"	23	27	Fault		(cut-off = 81°)							90 or 270	38	0	54			90 or 270	

50 55 Normal (cut-off = 60°) 90 60 13 0 2mm offset

cut-off angle: ~~bedding~~ fault

Exp. 362 Structure Observation Sheet

Site: 14809

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Link Files		
													Core face app. plunge azimuth	plunge	2nd app. plunge azimuth	plunge		Lineation rake	from
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overturned	uniform/variable	0-1.0		90 or 270				90 or 270		
65R	1	119	120	Fracture					Planar		.5		90 or 270	15	180	14		90 or 270	
"	"	124	126	"					"		"		90 or 270	12	0	3		90 or 270	
65R	2	4	5	Beddy (sharp)					"		.8		90 or 270	12	180	1		90 or 270	
"	"	5	8	Fault	Normal				Planar		.8		90 or 270	23	0	19		90 or 270	offset 2mm
"	"	6	12	Fault	Normal				Planar		.8		90 or 270	75	15	0		90 or 270	multiple // faults possibly vein structure
"	"	14	16	Fracture					Planar		.6		90 or 270	5	180	4	47	90 or 270	
"	"	15	21	Fault	Normal						.8		90 or 270	17	180	14		90 or 270	multiple // faults (2 directions)
"	46	15	21	"	"				"		.8		90 or 270	36	318	0		90 or 270	"
"	"	22	23	Fault	Normal				Wavy		.8		90 or 270	7	180	8		90 or 270	offset 3-8mm multiple // faults
"	"	23	26	bedding									90 or 270	25	180	27		90 or 270	
"	"	24	26	Fault	Normal				Planar		.8		90 or 270	7	180	16		90 or 270	Maybe same as faults between 22 & 23
"	"	28	30	Fault	Normal						.8		90 or 270	27	351	0		90 or 270	Multiple // faults same set as @ 15-21
"	"	29	31	Fracture					curved		.6		90 or 270	23	180	27	28	90 or 270	
"	"	29	34	Fold (slump)					UPPER limb				90 or 270	19	180	27		90 or 270	
"	"	"	"	"					lower limb				90 or 270	24	180	29		90 or 270	
"	"	"	"	"					Axis				90 or 270	21				90 or 270	
"	"	"	"	"					UPPER limb				90 or 270	27	180	6		90 or 270	
"	"	"	"	"					Lower limb				90 or 270	2	180	12		90 or 270	
"	"	"	"	"					Axis				90 or 270	13				90 or 270	
"	"	21	22	Shear zone					indec				90 or 270	9	180	7	55	90 or 270	
"	"	37	38	Fault					indec				90 or 270	4	180	22	31	90 or 270	
"	"	33	34	Fault					indec				90 or 270	2	180	14	32	90 or 270	
"	"	51	52	Bedding	sharp						.8		90 or 270	4	0	25		90 or 270	
"	"	56	58	Fault	Normal				Wavy		.75		90 or 270	19	180	45		90 or 270	offset (through) 5mm
"	"	57	63	Fault	Normal				Wavy		.75		90 or 270	42	180	14		90 or 270	offset 2cm
"	"	70	71	Fault	Normal				unibiose				90 or 270	6	180	19		90 or 270	series of // faults w/ apparent normal offset
"	"	80	89	Faults	normal				Wavy		.8		90 or 270	30	0	10		90 or 270	series of // faults

Bottom - 180

Interval of 8cm w/ // of these faults

Exp. 362 Structure Observation Sheet

Site: 14809

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files		
													Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge			Lineation rake	Lineation from
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/a nastomosing/polygonal/broad/open/closed /tight/upright/overtur ned	uniform/variable	0-1.0		90 or 270							
GSR	2	81	81.5	bedding					WAVY		.8		90 or 270	1	0	15				
"	"	102	112.5	Faults (normal)					Planar		.8 ← 57°		90 or 270	54	342	0				series of 11 Faults
"	"	118	134	Folds (axial planes)							.8 ← 80°		90 or 270	75	351	0				keep for limbs w/ a vertical towards
"	"	125	127	bedding					wavy		.8		90 or 270	17	180	13				
"	"	143	149	fracture					Planar		.4		90 or 270	38	180	31				
"	"	141	143	bedding					Wavy/planar		.8		90 or 270	4						
"	"	138	142	Fracture					Planar		.4		90 or 270	32	180	11				
"	"	112	118	fold							.8 ← slump		90 or 270	16						
"	"										.8 } slump		90 or 270	5						
"	"										.8		90 or 270	12						
"	"	118	119	shear zone									90 or 270	4	180	13				
GSR	3	11	20	Fault	Normal	10mm offset	cut off angle 53	33	WAVY		.8		90 or 270	33	0	47				
"	"	20	23	Fault	Normal	2mm offset	cut off angle 69		WAVY		.7		90 or 270	80	2	0				
"	"	37	42	Fault	Indeterminate			3mm	curvy		.8		90 or 270	64	0	11				
"	"	48	49	Bedding					wavy		.8		90 or 270	7	0	6				
"	"	73	75	Fault	Normal			5mm	Planar		0.8		90 or 270	22	180	5	49			
"	"	68	72	Fracture							0.6		90 or 270	36	0	16				
"	"	81	83	Fault	Indeterminate						0.7		90 or 270	14	0	40	5			
"	"	85	87	Fault	Indeterminate						0.7		90 or 270	22	0	55	80			
"	"	130	144	Fault	indeterminate				wavy		.8		90 or 270	67	180	71				maybe reverse
GSR	4	14	15	bedding							.6		90 or 270	1	0	3				
"	"	18	21	fault	indeterminate		cut off angle = 16		Planar		.7		90 or 270	5	180	39	87			
"	"	20	21	bedding					Planar		.7		90 or 270	9	180	28				
GSR	"	120	121	vein		thickness = 1.5mm			Wavy		.8		90 or 270	16	180	6				
"	"	137	141	vein		thickness: 1mm			Wavy		.8		90 or 270	35	180	29				
"	"	89	91	vein		thickness: .5mm			WAVY		.8		90 or 270	3	180	33				
"	"	110	112	fracture					Planar		.5		90 or 270	2	0	2				fracture between



46, 55, 23, 85, 111, 141... just like the others



A 203

Exp. 362 Structure Observation Sheet																					
Site: 14809				Core Reference Frame																	
Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		2nd app. plunge		Lineation		Comments	Link Files	
													azimuth	plunge	azimuth	plunge	rake	from			
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overtur ned	uniform/variable	0-1.0			90 or 270							
66R	1W	60	60	vein					wavy		1			90 or 270	5	180	35				Brown
		83	83	vein					wavy		1			90 or 270	2	180	20				
	2W	6	18	vein					curved		1			90 or 270	56	0	77				
		77	79	vein					h		1			90 or 270	21	180	23				
		111	113	vein					h		1			90 or 270	19	0	30				
	2W-117	3W-10		vein					h		1			90 or 270	48	0	36				
	3W	6	30	vein					h		1			90 or 270	68	120	68				
		36	75	vein					h		1			90 or 270	77	180	55				
	4W	18	23	vein					h		1			90 or 270	35	180	20				
	4W	94	96	vein					h		1			90 or 270	7	180	13				
		96	98	vein					h		1			90 or 270	35	0	48				
	5W	8	9	vein					h		1			90 or 270	7	180	7				
		79	145	vein	normal shear				h		1			90 or 270	81	21	0	76	90 or 270		
	6W	25	44	vein					h		1			90 or 270	80	351	0				
		47	63	vein					h		1			90 or 270	85	357	0				
		66	68	vein					wavy		1			90 or 270	32	0	68				
		71.5	74	vein					curved		1			90 or 270	11	0	11				
		82	84	vein					h		1			90 or 270	9	180	54				
	7	4	10	vein					h		1			90 or 270	46	180	4				
		12	17	vein					h		1			90 or 270	44	180	31				
		23	32	vein					h		1			90 or 270	58	0	31				
		46	46	vein					h		1			90 or 270	0	180	29				
		51	59	vein					h		1			90 or 270	57	0	58				
		92	96	vein					h		1			90 or 270	25	0	0				
67R	1W	84	86	vein					planar		1			90 or 270	18	0	19				
67R	1W	84	86	vein					wavy		1			90 or 270	5	180	72				calcite - only no reaction film calcite - filled (quartz?) irregular
"	"	8	10	vein							1			90 or 270	28	0	10				

Exp. 362 Structure Observation Sheet

Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files
													Core face app. plunge azimuth	plunge	2nd app. plunge azimuth	plunge		
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overtur ned	uniform/variable	0 - 1.0		90 or 270				90 or 270	
676	R-1	98	101	vein									90 or 270	74	180	21		90 or 270
2	"	99	108	vein									90 or 270	61	180	50		90 or 270
676	R-2	39	49	vein									90 or 270	63	180	68		90 or 270
2	R-3	9	13	vein									90 or 270	79	180	55		90 or 270
2	"	61	68	vein									90 or 270	68	180	29		90 or 270
2	R-4	60	67	vein									90 or 270	78				90 or 270
2	"	86	102	vein									90 or 270	84	0	0		90 or 270
2	R-5	24	34	vein									90 or 270	58	180	62		90 or 270
676	R-8	51	53	vein									90 or 270	14	0	4		90 or 270
"	"	17	24	vein									90 or 270	51	180	5		90 or 270
"	R-7	13	25	vein									90 or 270	68	180	64		90 or 270
"	R-9	58	59	vein									90 or 270	10	0	3		90 or 270
686	R-5	84	69	vein									90 or 270	91	180	59		90 or 270
68R	5	0	13	vein									90 or 270	96	0	71		90 or 270
68R	4	14	15	vein									90 or 270	2	180	41		90 or 270
68R	4	63	68	vein									90 or 270	40	0	33		90 or 270
"	"	110	119	vein									90 or 270	29	339	0		90 or 270
"	3	0	16	"									90 or 270	76	351	0		90 or 270
"	"	31	33	vein									90 or 270	16	180	11		90 or 270
"	"	62	65	vein									90 or 270	32	0	32		90 or 270
"	"	100	108	vein									90 or 270	68	180	16		90 or 270
"	2R	44	46	vein									90 or 270	27	180	59		90 or 270
"	"	49	54	vein									90 or 270	74	24	0		90 or 270
"	"	49	51	vein									90 or 270	73	328	0		90 or 270
"	1R	66	87	vein									90 or 270	89	180	53		90 or 270
"	"	87	91	vein									90 or 270	50	180	49		90 or 270
													90 or 270					90 or 270

Exp. 362 Structure Observation Sheet

Site: 014809

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core face app. plunge		Core Reference Frame 2nd app. plunge		Lineation		Comments	Link Files			
													azimuth	plunge	azimuth	plunge	rake	from					
Example						deformation band/shear band/slickenside/slickeline	cataclastic/compaction /riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overtur ned	uniform/variable	0 - 1.0		90 or 270										
69R	2W	0	36	vein	zeolite?				wavy		1		90 or 270	85	331	0				0-52			
	3W	71	90	vein	zeolite?				curved		1		90 or 270	65	180	61				8-115			
	4W	50	62	vein	zeolite+Reddish				curved		1		90 or 270	65	180	74				0-106			
	4W	59	106	vein	zeolite?				curved		1		90 or 270	86	300	0				4			
	5W	3.5	4.5	vein	zeolite? CoCo3?				curved		1		90 or 270	13	0	13				0-76			
<p style="text-align: center;">FIFTY</p> <p>This set has 50 veins between 3 and 78 cm - at 78 the basalt ends and zeoliments are in contact - Spacing elsewhere from <math>\approx 3</math> cm to <math>\ll</math> than 0.5 cm -</p> <p>Set is ex. 71.5-73.5 270/14 - 0/1</p>																							
70	6W	62	62.5	Bed	sharp						0.9		90 or 270	4	180	9				0-76			
	6W	9	14	Fault	Not						1		90 or 270	56	0	4				0-92			
	6W	25	28	Fault	Not						1		90 or 270	47	180	64				0-92			
	6W	35.5	38	Fault	Not						1		90 or 270	26	180	42				0-92			
	7W	26	32	Fault	Drilling	Normal						0.2		90 or 270	56	7	0	27	90 or 270	6-42			
	7W	54.5	62.5	Fault	Normal							1		90 or 270	85	15	0				48-85		
	8W	43	43	Bed										90 or 270	4	0	5				30-52		
														90 or 270					90 or 270				
70	1W	11	17	Fault	Normal							0.2		90 or 270	47	302	0	13	90 or 270				
	2W	0	7	Def. Band								0.9		90 or 270	80	42	0						
		52.5	59.5	Fault	Normal							0.2		90 or 270	58	2	0	26	90 or 270				
Xulsious	①	4	73	Fault	Normal							0.9		90 or 270	63	355	0				Baseline of 64-73		
	②	65	67	Fault	Normal							0.9		90 or 270	17	180	10						
		77	80	Fault	Normal							0.8		90 or 270	25	0	43						
		60	64	Fault	Normal							0.8		90 or 270	58	0	8						
													90 or 270						90 or 270				

Exp. 362 Structure Observation Sheet

Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files	
													Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge			Lineation rake
						deformation band/shear band/slickenside/slickeline	cataclastic/compaction/ri edel/S-C		planar/curved/wavy/a nastomosing/polygon al/broad/open/closed /tight/upright/overtur ned	uniform/variable	0-10		90 or 270				90 or 270		
	3W	33	35	Def Band		Def Band						0.8	90 or 270	5	180	14		90 or 270	
		69	73	Fault	Normal							0.9	90 or 270	25	0	61		90 or 270	//to bedding Displace Bedding // D.B. Pelouf 64-74
		94	102	Fault	Normal				Navy			0.9	90 or 270	70	180	73		90 or 270	
		117.5	120.5	Shear Zone								0.9	90 or 270	31	180	34		90 or 270	
		121	124	Shear Zone								0.9	90 or 270	58	36	0		90 or 270	
		124	125	Def. Band								0.9	90 or 270	69	340	0		90 or 270	
		125	128	Def. Band								0.9	90 or 270	46	0	44		90 or 270	
		124	127	Def. Band								0.0	90 or 270	81	345	0		90 or 270	
		128.5	131	DB								0.9	90 or 270	51	0	44		90 or 270	
	4W	2	4	Fault	Normal							0.9	90 or 270	24	76	0		90 or 270	
		2	8	Fault	N							0.9	90 or 270	76				90 or 270	
		2.5	8	Fault	N							0.9	90 or 270	75	345	0		90 or 270	
		7	16	Shear Zone								0.9	90 or 270	66	21	0		90 or 270	
		17	24	Fault	Reverse							0.9	90 or 270	40	180	62		90 or 270	
		18	28.5	Fault	Reverse							0.9	90 or 270	88	314	0		90 or 270	
		33	40	Shear Zone	Normal							0.9	90 or 270	50	0	56		90 or 270	
		34	36.5	Fault	Normal							0.9	90 or 270	20	0	21		90 or 270	
		37	50	Fault	Normal							0.9	90 or 270	56	310	0		90 or 270	
		49	53	Def. Band								0.9	90 or 270	35	338	0		90 or 270	
		53	63	Def. Band								0.9	90 or 270	46	325	0		90 or 270	
		67	69.5	Def. Band								0.9	90 or 270	13	0	28		90 or 270	
		68.5	71	"								0.9	90 or 270	27	0	31		90 or 270	
		69.6	74.5	"								0.9	90 or 270	34	180	4		90 or 270	
		71.5	76.5	"								0.9	90 or 270	30	180	11		90 or 270	
		77	86	Shear Zone								0.9	90 or 270	60	346	0		90 or 270	
		80.5	91.5	Def. Band	Reverse							0.9	90 or 270	80	5	0		90 or 270	
		85	92	Def. Band	Normal							0.9	90 or 270	74	180	35		90 or 270	



Pelouf  
64-76



Exp. 362 Structure Observation Sheet

Site:

Core	Section	Top [cm]	Bottom [cm]	Structure	Type	Fault/shear zone observation 1	Shear zone observation 2	Apparent offset	Structure geometry	Breccia clast size	Structural Confidence	Confidence detail	Core Reference Frame				Comments	Link Files	
													Core face app. plunge azimuth	Core face app. plunge plunge	2nd app. plunge azimuth	2nd app. plunge plunge			Lineation rake
Example						deformation band/shear band/slickenside/slickline	cataclastic/compaction/riedel/S-C		planar/curved/wavy/anastomosing/polygonal/broad/open/closed/tight/upright/overturned	uniform/variable	0-1.0		90 or 270						
	4W	92	97	Shear Zone							0.9		90 or 270	38	318	0			
		103	108	DB							0.9		90 or 270	70	0	59			Polygonal
		106	112	DB							0.9		90 or 270	66	0	68			98-123
		107	114	DB							0.9		90 or 270	61	180	45			
		130	142	Fault	Normal						0.9		90 or 270	66	319	0			
		133	148	Fault	Normal				curved		0.9		90 or 270	76	324	0			
	5W	13	14	Bed							0.9		90 or 270	3	0	14			Polygonal 0-13
		16	17	Shear Band							0.9		90 or 270	4	0	6			
													90 or 270						
71R	2W	47.5	63	DB							0.9		90 or 270	80					
		71.5	72.8	Compaction band							0.9		90 or 270	14	0	8			
		81.5	82.5	-							0.9		90 or 270	10	0	12			
		82.5	85	DB									90 or 270	35	180	27			
	3W	0	11	vein									90 or 270	75	21	0			
		12	12	-									90 or 270	0	0	42			
		30	81	polygonal vein									90 or 270						
													90 or 270						
92R	1W	16	26	vein	(calcite?)						0.9		90 or 270	63	0	25			
72R	2W	110	118	vein	(calcite?)						0.9		90 or 270	16	180	22			
72R	3W	90	91	vein	(black-brown)								90 or 270	8	180	21			
72R	3W	97	100	vein	(black-brown)								90 or 270	21	0	59			
"	"	90	124	"	"								90 or 270	87	7	0			
"	"	46	50	"	white								90 or 270	43	0	17			
"	"	19	23	"	white								90 or 270	30	180	30			
"	"	15	18	"	"								90 or 270	42	180	43			
													90 or 270						
													90 or 270						



<Type of Veins >

- ① Depth - parallel veins
- ② Depth - perpendicular veins

~~amorphous~~  
amorphous

Calcite - dominant  
Fe-rich calcite  
 sediment-filled  
 intersection / non inter-section

planar	no reaction rim
<del>curvy</del>	reaction rim
irregular	

Interval Section 1.

(1-3) Vein ①	Calcite - dominant	planar	no reaction rim	truncates vein 2
(4-6) " ②	"	"	"	truncated vein 1
(16-18) " ③	"	"	"	"
(37-43) ④	"	"	reaction rim	truncates vein 5
(41-42) ⑤	Calcite	planar	reaction rim	truncated by V4
65-68 ⑥	Calcite	planar	No rx rim	truncates V7
(65-67) ⑦	Calcite	planar	No rx rim	truncated by V6
(82-86.5) ⑧	calcite	irregular	rx rim	
(99-111) ⑨	calcite filled w/ amorphous rock filling around calcite	planar	No rx rim	truncated by 1/2
(99-108) ⑩	"	planar	No rx rim	truncates 9

CWA

Section 2

0-3 Vein ①	Calcite	irregular	rx rim	
(39-50) vein ②	Calcite / amorphous rock filling around calcite	planar	rx rim	
(44-84) vein ③	"	irregular	rx rim	truncates 4
(55-58) vein ④	Calcite	planar	rx rim	truncated by 5
74-76 vein ⑤	CWA	planar	No rx rim	
(92-98) vein ⑥	Calcite	planar	rx rim	

Mineral vein description  
 148g  
 67R / 68R

< section 3 >

vein ①	40-43	CWA	irregular	reaction rim
vein ②	10-13	CWA	planar	rx rim
vein ③	48-50	CWA	planar	rx rim
vein ④	48-49	Amorphous (red)	planar	No rx rim
vein ⑤	62-68	red sediment	planar	rx rim
vein ⑥	68-69	red sediment	planar	rx rim
vein ⑦	67-72	"	planar	"
vein ⑧	68-78	"	"	"
vein ⑨	73-74	"	"	"
vein ⑩	102-106	CWA	planar	rx rim
vein ⑪	106-108	"	irregular	No rx rim
vein ⑫	128-130	CWA	planar	rx rim
vein ⑬	134-136	CWA	planar	No rx rim

Main vein

< section 4 >

vein ①	37-40	calcite	<del>reaction rim</del>	planar	Reaction rim
②	62-69	red sediment		planar	"
③	63-64	"		"	"
④	64-65	"		"	"
⑤	65-68	"		"	"
⑥	65-68	"		"	"
⑦	68-94	calcite + red sediment		planar	"
⑧	88-107	red sed.		irregular	reaction
⑨	97-98	red red		planar	"
⑩	101-105	"		"	"
⑪	100-103	"		"	"

Inter-section

Inter-section



②	99-107	Red red.	irregular	Reaction rim
③	121-129	Amorphous Red.	irregular	"
④	139-144	CWA	planar	"

< section 5 >

①	0-5	CWA	planar	Reaction rim
②	24-34	CWA	planar	"
③	33-39	Amorphous Red. (black band?) ~		X reaction rim
④	55-66	CWA	conglomerate of planar veins	small reaction rim

< section 6 >

①	14-19	CWA	planar	reaction rim
②	50-52	Amorphous Red		Very dark halo
③	66-76	red amorphous	Planar	Rx rim
④	72-93	CWA	irregular	Rx Rim
⑤	84-93	"	"	"

< section 7 >

①	13-25	red amorphous	Planar	Rx rim
②	26-29	"	"	"
③	58-61	CWA	Planar	"

67R

Section 9

- ① 12-47 cm irregular vein  
calcite center  
pistachio green rxn halo  
local Fe-oxide vein coating
- ② 33-41 vein that is cut by ①  
irregular  
calcite-filled  
green rxn halo
- ③ 59-61 cm dark rust-red vein w/ minor cc-fill  
minutely x-talline  
branching  
irregular  
no significant rxn halo
- ④ 69-72 cm irregular  
rust-red filling; very diffuse body's  
no rxn halo  
minutely x-talline
- 

Section 8

- ① 18-25 cm irregular, brick-red  
micro-x-talline Fe-oxide  
diffuse body's
- ② 51-52 cm planar, thin brick-red vein surface  
vein surface has local bright red nodules of Fe-oxide
- ③ 93 cm planar, thin brick-red vein w/ minor, irreg. cc filling  
no rxn halo  
micro-x-talline
- ④ 98-106 sub-planar (v. oblique cut)  
3 vein fillings  $\Rightarrow$  cc, translucent green minerals, Fe-oxides  
cc always last mineral  
no rxn halo

68R-2W cont

- ⑦ 63-64 cm - similar sub-planar vein to ⑥; also cut by ⑤, but more equivocal  
variable vein filling thickness creates irreg. form  
chl, cc, + Fe-oxides, w/ chl @ rim  
joins w/ ⑥ at core edge

68R-1W

- ① 35-36 cm  
curriplanar horiz. vein  
patchy, irreg. calcite on broken surface
- ② 64-86 cm  
step, irreg. vein  
dominated by calcite, minor Fe-oxides on back of core  
medial suture runs down vein  
hints of chlorite as well as translucent green min'l obs in last core
- ③ 85-90 cm  
irreg., intermed dip vein  
patchy cc + possible chlorite.  
3 cuts 2

68R-2W

- ① 42-48 cm  
high- $\angle$ , sub-planar vein w/ local slicks  
crusy gtz + chl(?); minor red iron oxides, but some black ones, too (magnetite?)
- ② 43-48 cm  
high- $\angle$  vein orthogonal to ~~4~~ cut by ①  
patchy cc + chl on surface
- ③ <sup>48-53 cm</sup> short cc + chl vein on edge of core  
ends at top of core segment  
planar
- ④ 48-51 cm  
cut by ③  
irreg. cc + minor reddish Fe-oxides
- ⑤ 54-89 cm  
long, steep, planar vein w/ milky cc(?)  
top + bottom have little vein filling but maintain apparent thickness due to alteration next to ~~the~~ fracture; biot. in halo are altered to brown
- ⑥ 56-63 cm  
irreg to sub-planar, steep vein  
chl rim + variable cc center creates irreg. texture  
also blocky, translucent, waxy min'l ⑥ cut by ⑤ ⇒ OVER

68R 4W.

vein ①	(12-14)	green + white (green dominant) vein	planar	X reaction rim	planar.
vein ②	(63-68)	white + green vein	planar	○ reaction rim	ii
vein ③	(112-118)	green (chlorite?) vein	planar	X reaction rim	
vein ④	(108-111)	white vein	planar.	truncated by ③	X reaction vein

68R-3

0-18 | vein ① Planar, chlorite/calcite-filled, No rx rim chlorite concentrated on outside

(31433) vein ② thin, Planar, calcite vein, very small patchy reaction rim, after small veins intersecting

66-67 vein ③ mainly chlorite, small bit of calcite, planar, no rx rim

101-110 vein ④ Planar very thin vein, calcite & small ~~red grains/stain~~ rx rim.

110-116 ⑤ cluster of calcite & chlorite. irregular. rx rim.

---

68R-5

83-99 ① Calcite, chlorite, & rusty red mineral ~~Paraphenyne~~ on face of core. Does not extend through core

53-66 ② Planar, calcite, rusty red <sup>yellow</sup> ~~of~~ bright red mineral, rx rim

18-25 ③ slightly <sup>irregular</sup> likely calcite, rx rim, rusty red mineral, possibly some chlorite cross cuts 4

0-13 ④ chlorite, planar, No rx rim