

200

78 features
measured all as are
measured features
50 p. was pale

400

elim bed
resist
water sign

100
100

Bed + Fissil
very fine
pale mag

Data
copies of sheets
(some)

Could work to get more faults oriented.

Structural Geology

Exp: 315

Site: C0002B

Core: 20R

Observer:

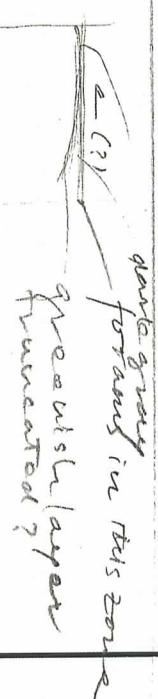
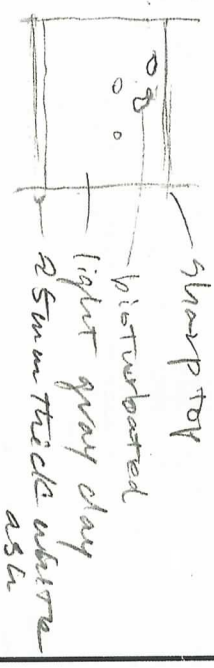
Summary:

Disturbed

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes	
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip		
bedding 236	38			2	270	5	0	5												light gray clay layer with a sharp base
fossility 58 59					270	3	0	2												sharp top disturbed light gray clay 25mm thick white ash
near zone(?) 65 66				0.2	90	2	180	8												greenish gray clay with a irregular top
bedding 88 90				≤ 1.0	270	3	0	1												
fossility 96 96.5					270	3	0	2												
bedding 122 127				5	290	7	180	3												
bedding 2 6				4	270	3	0	6												fine sand layer
4 94.3					270	5	0	0												contact between a lighter gray clay and a darker gray clay
bedding 66.5 67.5				0.5	270	5	180	5												fine sand layer
bedding 110					90	0	0	4												thinly laminated sand

Reverse (95.5, -51.4)

Reverse (61.2, -51.4)



Structural Geology

Exp: 315

Site: C0002B

Core: 21R

Observer: JMN

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1	bedding	84.5	84.5			270	08	000	02											contact; siltstone below w/ v. fine sandstone above
4	bedding	59.5				90	2	000	2											contact between dark gray laminated fine-grained <u>finely</u> sand and greenish silt bioturbated
																				greenish gray silt layers
		120	120.5		0.5	90	0	0	0											Typical laminated fine-grained sand layers
		133	133.5			90	1	0	0											

Remove (247.3 1 -49.4)

4 bedding 59.5

Structural Geology

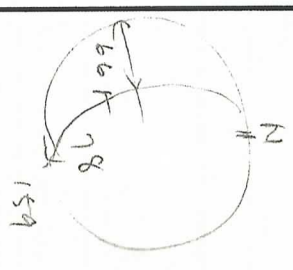
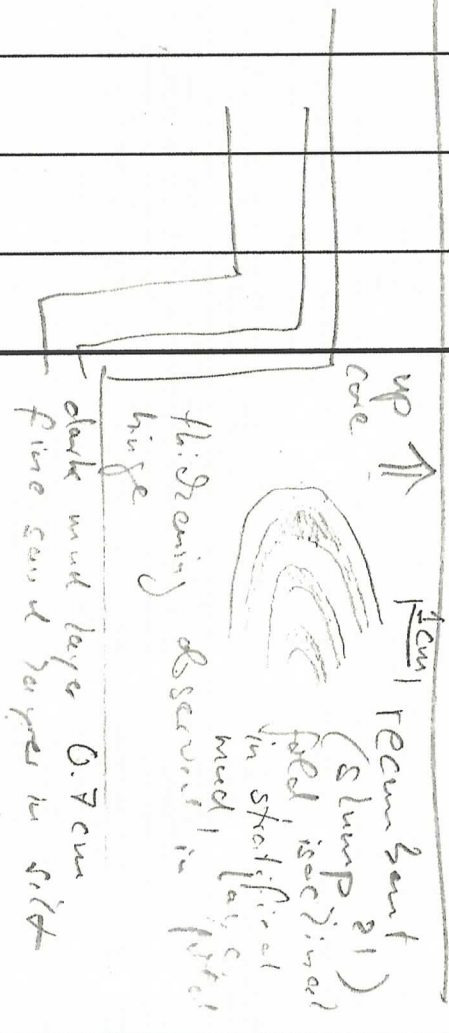
Exp: 315 Site: C00028 Core: 23R
 Observer: JON

Summary: Lots of drilling disturbance, bedding disturbed, most pieces < 4cm long

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1	bedding	122	122			090	03	180	08											contact at top of coherent piece Azim 121-125
4																				Interval of conspicuous steep fractures (core rel. frame) from 22-47 cm. Filled w/ drilling breccia and mud. Drilling induced
23R																				
24R	fold	46	48	47	02	030				350	00			46	48					up ↑ core Interval of conspicuous steep fractures (core rel. frame) from 22-47 cm. Filled w/ drilling breccia and mud. Drilling induced
	bedding	81	82	81		030	04	000	02					73	84					
3	bedding	16	17	16.5	0.3	270	03	000	01					10	20					
1	Fault	123	126			270	66	180	34											Slices South 120° 7E0 thrust

Reverse
(253.4, -54.4)

Reverse
(270, 7 - 17.3)



Structural Geology

Exp: 315

Site: (00028)

Core: 25

Observer: TM

Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1 bedding Fault	63	78			90	2	0	2					63	78					Disturbance drilling SW Similar bedding as #1
	66	74			90	51	15	0											
2 bedding Fault	73	84			90	8	180	8					73	84					No source SW look Nerr No slicks
	43	50			90	57	377	0											
3 Fault Fault	104	113			90	49	303	0					57	62					Slickensite 81 from south Normal Thrust trend 77° Thrust trend 112° w/ ductile fold w/ ductile fold w/ ductile fold
	57	62			90	41	180	41					103	115					

26R

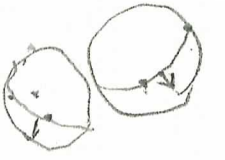
27R

Reverse

(122.7, -60.6)
Reverse (143.6, -66.7)

Reverse (331, -48.2)

No source of slicks



Reverse (143.6, -66.7)

Structural Geology

Exp: 215

Site: 100028

Core: 288

Observer: [Signature]

Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
12		15																
foliation																		
foliation	21	23			90	11	0	14										
foliation	19	20			90	10	0	4										
foliation	27	30			90	10	0	4										
schistosity	28	39			90	10	0	4										
bedding	75	77			270	8	0	8										
schistosity	88	89			90	8	0	0										
bedding	108	117			270	13	—	—										
bedding	131	135			270	9	0	4										
schistosity	77	78			90	4	180	2										
Veins	8	17																

foliation or schistosity

Reverse (122.7 -66.8)

notes

Axis ~~10~~ 10 - Synsedimentary

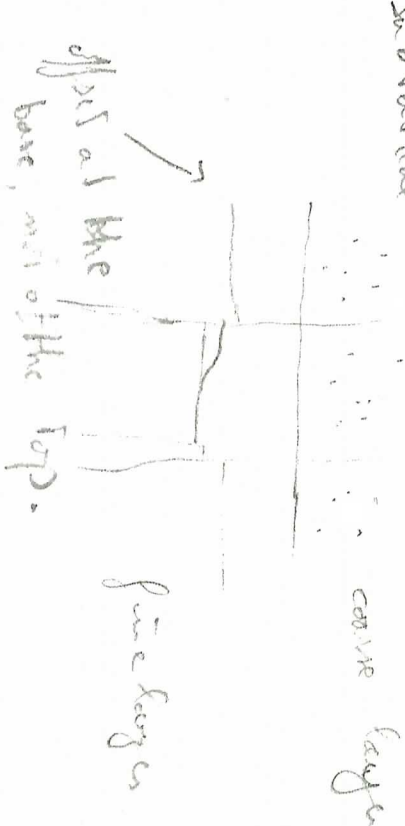
Syn sedimentary 20 10
between folds, schistosity
148 15 Syn sedimentary

Wade our criterion

irregular contacts.

reverse & folds

Subvertical



Structural Geology

Exp: 345

Site: 00015

Core: 29R

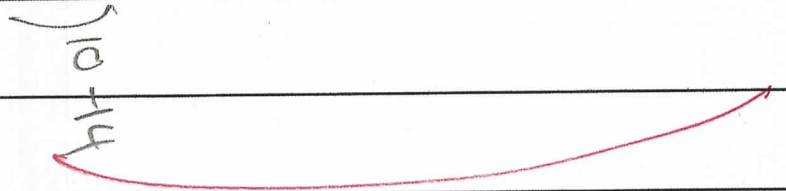
Observer: TM

Summary:

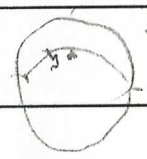
structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
bedding	71	82			270	21	0	5						71	82				
Fault-1	51	60			270	54	180	7						51	60				
Fault	100	109			270	49	0	22											
Fault	100	109			270	31	0	22											
bedding	100	109			270	31	0	22											
2 TW																			
Fault	0	34			270	86	335	0											
Fault	0	34			270	86	335	0											
bedding	0	34			270	86	335	0											
Fault	43	64			270	86	335	0											
CC Shear	10	11			90	8	180	12											
bedding	10	11			90	8	180	12											
bedding	112	113			90	8	180	12											

slips P1WSE
42 south

Slacks
trend 32



NA



notes

- 1-140 - 15 or so coherent pieces all with fault good bedding but pieces are too small for normal. Pickovers as they all way have normal.

- Although broken this looks coherent.

Pres. some shear or of my but more deformation by d m 113

Normal sense sure no Slacks

Structural Geology

Exp: 35

Site: 00028

Core: 30R

Observer: HM

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P.)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1	bedding SE side EW	22				90	7	180	17					10	31	max	45		
2						70	12	180	12										
3																			
	31R	98	102			290	19	0	28										
	bed	90	97																
	2 bed	65	79			90	11	180	6										

Green blocks were taken by drilling
2/02/00

More fissile over w/ lots of soft sediment structures esp. Sec #2
Lot of echinot S-10cm block
near pros
beautiful syn-sedimentary N. fts
- compact.

Reverse (280.9, -60.3)

Reverse (267.9, -68.5)

(323.1, -59.4)

~~(323.1, -59.4)~~

Structural Geology

Exp: 315

Site: C0002B

Core: 32R

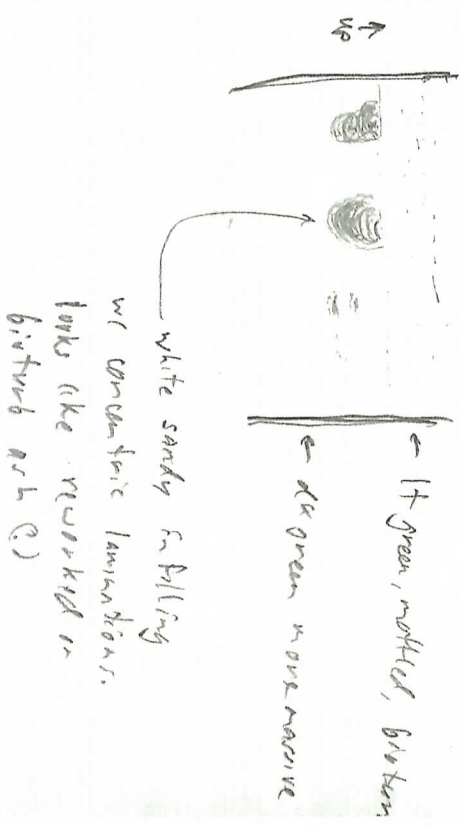
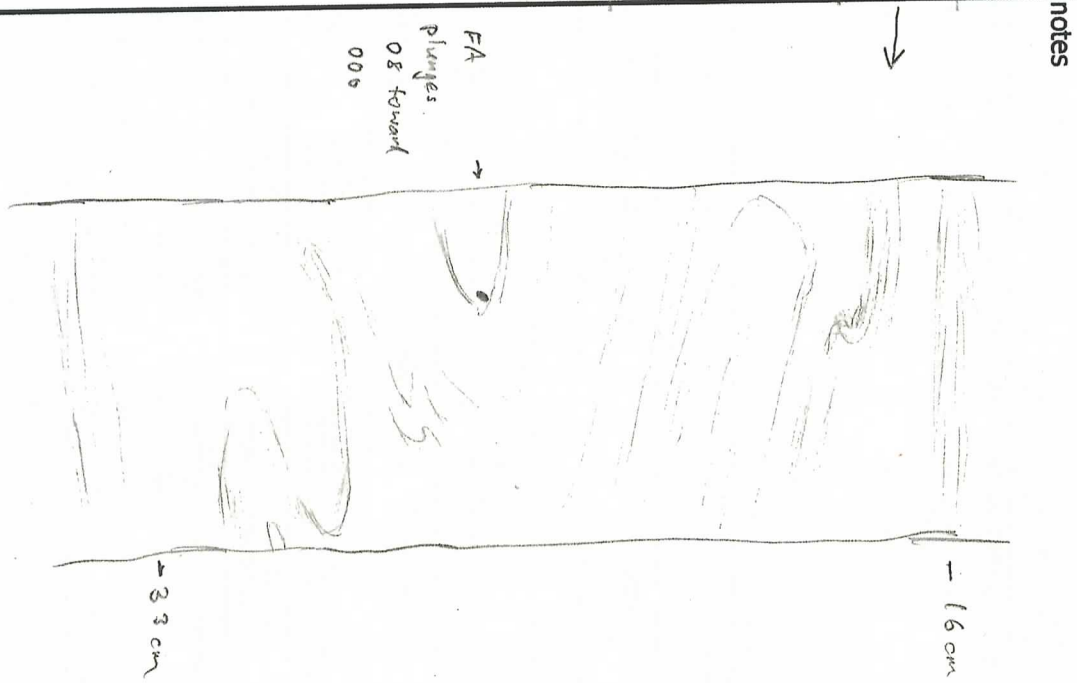
Observer: JON

Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-nag pole		corrected orientation	
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1 bedding	24.5	25.0		0.5	090	00	000	02										
3 folds	18.0	36.0												0	42			
4 bedding (mottled black bed)	32	33		1.0	090	00	000	06										
6 bedding (green bed)	82	82.5		0.5	090	00	000	01										
6 bedding (green bed)	100.5	100.5			090	00												

Reverse (302.5, -39.3)
Reverse (167.9, -36.3)
Reverse (356.9, -50.6)
Reverse (188.6, -19.5)
Reverse (188.3, -43.3)

THIS IS THE ARE MORE HALL ARE MORE HALL THE WORKING HALF
NORTH
NORTH
NORTH



notes

FA plunges 08 toward 006

16 cm

33 cm

white sandy filling we concentrate laminae. looks like reworked or bioturbated (?)

It green, mottled, bit thin
dark green more massive

Structural Geology

Exp 3/15

Site: C00018


Core: 402

Observer: Kyu

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1																			
	fish structure (?)	21	26																
	fault	39																	
2		0	29																
		31	52																
4																			
cc																			

notes
 broken into 3 ~ 15 cm long pieces; core with the thinnest due to drilling (23.5 cm) lots of fragmentation

 dish-like mud pieces in sandy matrix

black polished surface with silted lines measurement impossible due to rotation during coring

thin cores 3.5 ~ 4 cm in width and mud slurry

relatively massive

broken into pieces subhorizontal fissility

Structural Geology

Exp: 215

Site: 0008

Core: 41R

Observer: TM

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P.)		P-mag pole		corrected orientation		
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1	bedd.	80	82			270	16	0	6											
2	bedd.	62	63			90	16	0	9						50	65				
	bedd.	125	126			270	22	0	3							131				
4	bedd.	70	71			90	7	0	2						53	23				
5																				

notes
All lower pairs over w/ 615
of 510 for 615

Normal
(218.1, 52.3)

not much.

Structural Geology

Exp: 415

Site: 00020

Core: 42R

Observer:

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P.)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
2	bed.	60	60			270	1	180	10					34	116				
2	bed					90	13	180	8					121	140				
3	fault	88	96			90	34	180	41					84	96				
3	fault	126	128			90	23	0	43										

(161.5, 60, 4)
 Normal
 less yellow slip
 looks more like
 good for 160s
 slickens
 slickens
 slickens found 500 plunges 51
 strike 131 plunge 82
 See notes for
 Kofow
 says DeLinao is 94
 100 DeLinao
 990

Structural Geology

Exp: 215

Site: C00020

Core: 42R

Observer:

Summary:

Pmag

JK

section	structure ID	top of struct	bottom of struct	average depth ss (cm)	thickne	core face app.		2nd app.		orientation		orientation		coherent interval (for P.)		P-mag pole		corrected orientation		notes
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
2	bed.	60	60			270	1	180	10					34	116		0-80			NA
2	bed					90	13	180	8					121	140		100-135			slugs
3	Fault	88	96			90	34	180	41					84	96		100-35			slugs trend 131
3	Fault NW	136	128			90	23	0	43								rec 94			slugs trend 50°

Structural Geology

Exp: 314

Site: C0002

Core: 43R

Observer:

Summary:

Pmag

section	structure ID	top of struct	bottom of struct	average depth (m)	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1	vein struct.	63	68			270	64	0	36					59	70				
	bed	120	120			270	15	180	10					107	119				
2	bed	21	21			270	1	0	80					10	35				
1	vein struct.	131	135																
2	vein struct.	12																	
	"	16																	
	"	19																	
	"	22																	
	vein	45	54																
	"	60	62																
	"	68																	
	"	70																	
	"	90																	
	"	97																	
3	vein	18	23																
	vein	39	41																
	vein	57																	
	vein	60																	
4	vein	11	14																
	vein	16	22																

29 32
33 34
11 18

sigmoidal and bifurcated vein structures at the top and bottom of sec. 1.

2

- multiple sets of sigmoidal vein structures - some w/ offset (normal)
- multiple sigmoidal.



must have a slightly sigmoidal form.

Structural Geology

Exp: 215

Site: 100° E

Core: L49

Observer:

Summary:

Pmag

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)	P-mag pole	corrected orientation	notes	
					az.	dip	az.	dip	strike	dip	dip dir	dip					top
2 U+1M dmc	5	10											5	22			
"	27-30	30											27-40	90	140		rec 271.4
bed.	28	29				90	6	140	16								
vein SNNC	61	71				270	3	001	0				61-112				
85	85	120															
3 vein SNNC	131	13															
0	60	6.															
60	82	81															
85	85	81															
92	92	100															
24	24	130															
4 vein SNNC	0	5											0	32	2-32		
15	15	19											32	62	32-62		
vein SNNC	31	50											38	115	32-115		
56	56	60															
83	83	85															
89	89	90															
99	99	101															
106	106	115															

Drilling direction

rec
271.4

rec
234.2

226.4 rec

Multiply scales of NNS and
in strike pieces of the core
Boarded sign for veins
marking down slope

Structural Geology

Exp: 3/15

Site: 10028

Core: 45R

Observer: TW

Summary:

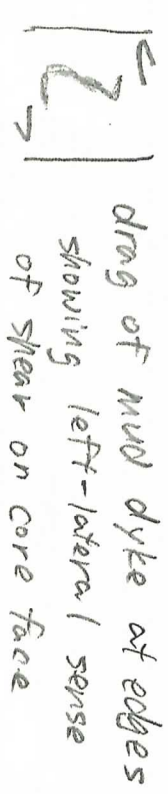
Pmag

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
bed	4	6				90	5	0	0										
vein struct.	8	10																	
vein struct.	16	18																	
mud dyke	22	27																	
vein struct.	27	35				270	78	0	80					5	35	→	5-35		
	59	65				90	76	0	43										
	68	74				90	70	0	85										
	75	79				90	55	0	66										
	81	84																	
	89	91																	
	93	97												59	142				
	100	108				90	59	0	70										
	110	113																	
	115	117																	
	124	126																	
	128	131																	
	133	137																	
	139	141																	

notes

Sigmoidal vein struct.

Planar vein struct.



bifurcated vein struct.



Multiple sets of sigmoidal, bifurcated vein struct.

Structural Geology

Exp: 315 Site: 100028 Core: 45R Observer: KJH Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickne ss (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
2	Vein struct.	0	3			90	84	0	80					0	26			0-26	
	"	5	10																
	"	13	14																
	Fault	21	26			90	58	0	30					0	26				
3	Vein struct	0	22																
	"	59	74			270	85	0	88					59	74				
	"	76	99			270	65	0	88					76	100				
4	Vein struct	33	40																
	"	44	46																
	"	98	112			270	77	0	88					85	122				
5	Vein struct	2	17																
	"	26	28																
	"	37	40																

$= 119.2$

trend of slick on fault 82

$= 289.2$

Sigmoidal vein struct. throughout $= 22.4$

multiple sigmoidal vein struct

Structural Geology

Exp: 315

Site: C00024

Core: 462

Observer: KU

Summary:

Pmag

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes		
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip			
1	Vein struct	0	11			90	74	0	81					0	98							
		17	23																			
		28	30																			
		34	36																			
		38	40																			
		42	45																			
		49	50																			
		55	59																			
		61	65																			
		68	72					270	85	0	53					0	98					
		84	88																			
		89	112																			
		118	125																			
		128	129																			
135	140																					
2	Vein struct	3	4																			
		13	22																			
		37	72																			
		81	91																			
		118	138																			

multiple sets of vein struct.

288-4

multiple sets of vein struct
sigmoidal form
some w/ normal offset (<1cm)

94.3

40-95

Structural Geology

Exp: 305

Site: 10002B

Core: 462

Observer: CV

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
3	vein struct	25	31																	
	"	53	76																	
	"	78	95																	
5	vein struct	10	22																	
	"	24	30																	
	shear zone (def bands)	50	55			90	44	180	44						35	75				
	vein struct	129	131																	
6	vein struct	20	25																	
	"	30	38												28	68				
	"	41	45												28	68				
	"	48	52												28	68				
CC	vein struct	23	30																	

219.4
48.0
0-40
40-70

some w/ normal offset (< 1cm)

curviplanar vein struct

~1 to 3 mm thick
offset unknown

sigmoidal

curviplanar

planar, bifurcated
vein struct

Structural Geology

Exp: 315

Site: C0028

Core: 472

Observer: SV

Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1 Vein struct	0	10																	
Fault	88	89																	
	90	91			90	18	180	25											
2 Fault	14	15			90	13	180	6											
Fault	47	54			270	25	0	8											
Fault	55	63			270	78	0	56											
Fault	58	63			90	62	0	13											
3 Vein struct	97	99																	
Vein struct	0	17																	
"	73	77																	
"	114	116																	
Fault	113	115			270	15	180	25											
4 Vein struct	127	142			90	65	0	70											
Vein struct	0	10																	
Shear zone (def. bank)	15	26																	
5 Vein struct	20	23																	

104.8

33.6
53-85

100
66
135

notes

sigmoidal, some w/normal offset

~1-2 mm thick, normal sense

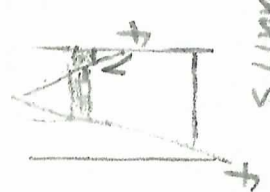
// bed

gently dipping faults

conjugative

normal sense

sigmoidal



sigmoidal, locally planar

bifurcating

anastomosing

sigmoidal

148.3

check

Structural Geology

Exp: 75

Site: 0002

Core: 48A

Observer: KJ

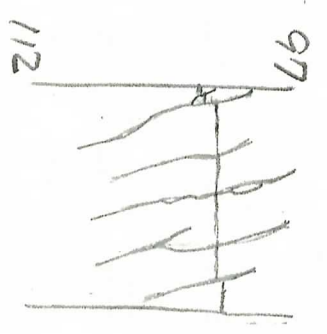
Summary:

Pmag

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-mag)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1	bed	57	58			90	10	0	4					15	117			20	-120
2	vein struct	97	112			90	60	180	53					50	111			19	117
						90	62	0	58				50	111			50	-139	
4	fault	28	31			270	18	180	25					3	90			0	-58
						270	15	180	130				3	90			198	3	
3	bed	51	51																
6	faults and shear zones	71	76																
CC	faults																		

notes
289.2

vein structures cut gently dipping fault (seam) showing reverse offset.



sigmoidal vein struct. shear zone (def. band) - like appearance at the bottom of the section

horizontal bed

reverse offset

229.2

zone of subhorizontal faults and shear zones (def. bands) some w/ normal offset

subhorizontal faults one fault at the bottom of the section shows reverse offset

Structural Geology

Exp: 315

Site: C00028

Core: 49R

Observer: KY

Summary: well-developed breccia

P. mag

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole dip	corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom		az/trend	dip	
1 Fault	31	33																
2 Faults	9	10																
breccia	36	50																
4 breccia	0	20																
Shear Zones	20	35																
breccia	35	52																
breccia	52	78																
breccia	78	86																
breccia	86	125																
CC breccia	0	28																

notes

- normal offset
- "
- brecciated into fragments along the slip surfaces, locally showing normal offset.
- brecciated into fragments along the slip surfaces, locally w/ normal offset
- intense (spacing $\leq 1\text{cm}$) development of gently-dipping shear zones (def. bands) some are cut by faults w/ normal sense
- brecciated into mm ~ 5cm size fragments, possibly enhanced by drilling polished, slickenlined
- the same as 0-20cm
- the same as 35-52cm
- the same as 0-20cm
- intensely brecciate along the sets of polished and slickenlined surfaces could be enhanced by drilling

Structural Geology

Exp: 319 Site: 10028 Core: S2 Observer: TW Summary:

Breccia

- 2 coherent SW fault
- 3 breccia
- 4 breccia
- 5 IW
- 6-7-8 coherent

51R

structure ID	top of struct	bottom of struct	average depth	thickne ss (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1 blocks	0	45			90	10	180	14										
breccia	45	103			270	75	348	0										
CC breccia					270	15	180	20										
vein strand	66	69			270	36	180	19										
Fault N-FH	74	76			72	113	70-110											
3-s fault	0	9			90	60	325	0										
Fault	18	17			90	7	180	62										
N-FH	30	35			90	47	180	11										
N-FH	67	74			90	58	0	0										
N-FH	81	84			270	71	335	0										
RL contact	105	110			270	33	0	54										

Too loose to measure blocks and breccia

slidestrand 235 Normal?
slidestrand 240

slidestrand 67 down 270
No force

COLBERS NT
25-52

cm offset small layer



Photo

Photo Breccia

Structural Geology

Exp: 551 Site: 6 m B Core: 51 R Observer: Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-mag)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
2	R.L. fault	117	132			270	78	34	0					112	136				
3	bed	6	9			270	25	0	29										
	fault	1	17			90	66	180	29										
	Sand	25	34																
	fault	60	61			270	20	180	12										
	fault	119	122			90	27	0	1										
	fault	132	136			270	11	0	54										
	fault	131	136			90	53	180	34										
4	fault	41	41			270	6	0	12										
6	Spec. fault	67	77			90	28	11	0										
	fault	84	85			90	1	180	27										
	fault	95	96			90	19	180	32										
	fault	101	111			90	57	0	56										

notes

slices like 7 from N

slices take 5 from 90 thrust

slices from 247

slices from 134 Normal FH

slices from 0 - Normal

slices from 287 Normal

slices from 13 - Normal

slices from 272

slices from 248

slices from 04 Normal

slices from 213

slices from 171.5

44 99 = 45 - 110 m
35 8.3

67 100

65 - 85

100 - 220

10m offset



Structural Geology

Exp: 15 Site: 60028 Core: 51R Observer: TM Summary:

53R - 2. No Recovery
54R - 3

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip	orientation		coherent interval (for P-)	P-mag pole	corrected orientation
					az.	dip		strike	dip dir			
Shear zone	112	112	2		90	0	180	16	—	100-120		
Shear zone	113	120	3		90	24	330	0	cuts			
Shear zone	128	131	4		90	26	0	47	cuts #5			
Shear zone	122	130	5	1cm	270	43	0	21		125-140		
Shear zone	133	141			90	44	0	47				
5-6 blocks												
Shear zone	15	23			90	0	180	3	32.75		8-15	
Shear zone	23	22			90	1	180	17	169.8		15-23	
Bed	22	26			90	1	180	17			23-33	
Bed	22	26			90	3	180	42			33-43	
Bed	22	26			90	3	180	42			43-54	

Discrete

8-15
15-23
23-33
33-43
43-54

Many shears shows (block)
↳ extensional layer - parallel / horizontal



120

Structural Geology

Exp: 55

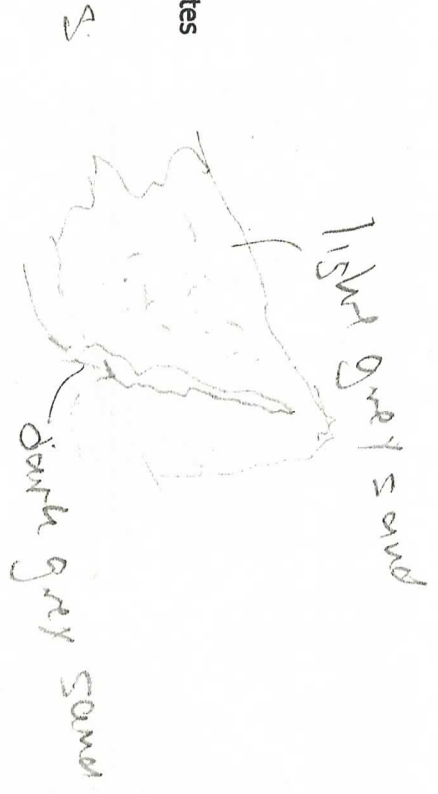
Site: 1002B

Core: 55R

Observer: TM

Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
cliffs dike	45	48			270	72	72	0											



notes

Structural Geology

Exp: 215

Site: GOND

Core: 56R

Observer: TM

Summary:

DMG

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
					az.	dip	az.	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip		
bed	25	32			270	19	180	23					22	32				
shear zone					270	85	330	0										
3 fault	50	53			90	81	304	0										
					90	70	358	0										
Sandstone	1	15																
bed	58	60			90	17	180	10										
shear zone	22	27			170	51	0	56										

57R

55 64

355.87

measured 86-65

⊗

notes

Broken and rounded fossils at top and sandstone of base Normal 5 mm offset

Slides value 33 from 90 Normal
Slides plunge 70 North Normal

- carbonate cement - carbon
clean sandstone - carbon
- EVSbbe
white-ish carbonate mud
Normal shear zone

Structural Geology

Exp: 315

Site: C00028

Core: 58R

Observer: KV

Summary: brecciated into a few mm to a few cm fragments w/ relatively coherent intervals

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		coherent interval (for P.)		P-mag pole		corrected orientation		
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend
1	fault	87	96			90	62	344	0			75	110					
	fault	104	110			90	51	348	0			75	110					
2	fault	10	15			270	35	0	40			7	39					
	fault	65	71			90	37	0	6			67	106					
	fault	101	106			270	54	0	42			67	106					
CC	breccia	5	24															
1	breccia	50	55															
2	shear zones					270	16	0	28			44	77					
CC	breccia	0	20															

notes

slick trend 87
normal offset
slick trend 55
normal offset

slick trend 65
slick trend 251

light gray ~ whitish silt at 48-50 cm
brecciated into mm-size fragments

bifurcated

Soc. 1 and 2 breccias of > a few cm in size and coherent intervals

CC brecciated into a few mm to a few cm size fragments

59R

NA

NA

Structural Geology

Exp:

Site: C00028

Core: 60R

Observer: FU

Summary: breccias of > a few cm size w/ coherent intervals

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip
1	Fault	29	34			270	42	352	0					27	58				
	Fault	35	37			90	18	0	38					27	58				
	breccia	14	20																
2	Shear zone	100	103			90	30	0	20										
	Shear zone	138	138			0	0	0	0										
cc	breccia																		

notes

sticks trend 14

horizontal shear zone displaced by normal fault
 dominated by mm-size breccias



Structural Geology

Exp: 3/5

Site: C00028

Core: 61R

Observer: KJ

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		notes	
						az.	dip	az.	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip				
1	Shear zone	50	54			270	26	0	65					30	57	20	41	336.9		Sec 1 } coherent interval and breccias of > 2-3 cm size	
2	bed	13	14			90	7	0	30					0	25			97		Sec 2 } breccias of > 2-3 cm size	
	bed	72	72			270	8	0	15					55	80						
	Shear zone	107	108			270	7	0	8					96	122						
3	IW																				
4	bed	43	44			270	22	0	20					29	48						
5	bed	9	10			270	4	0	19												
CC	breccia																				

Sec 1 } coherent interval and breccias of > 2-3 cm size

Sec 2 } breccias of > 2-3 cm size

Sec 5 0-57cm : coherent intervals w/ breccia of 2-3 cm size

57-101cm : comminuted siltstone locally coherent pieces

CC comminuted siltstone

Structural Geology

Exp: 315

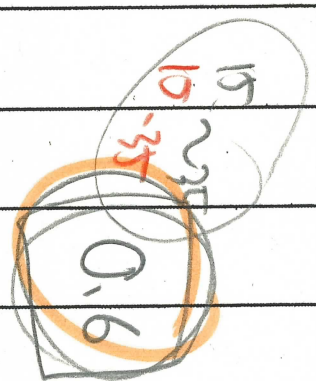
Site: C0002B

Core: 62R

Observer: Ky

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P-top)	coherent interval (for P-bottom)	P-mag pole		corrected orientation	
						az.	dip	az.	dip	strike	dip	dip dir	dip			dip	az/trend	dip	az/trend
1	bed	9	23			90	60	0	36					2	32	15	23		
	Fault (trend of slick 93)	22	29			90	53	0	8					2	32	15	23		
	bed	85	90			90	78	0	21					81	98				
2	Normal Fault (trend of slick 111)	84	90			90	52	0	15					81	98				
	Fault	90	93			90	38	0	14					81	98				
3	IW																		
	Fault	11	12			270	6	0	30										

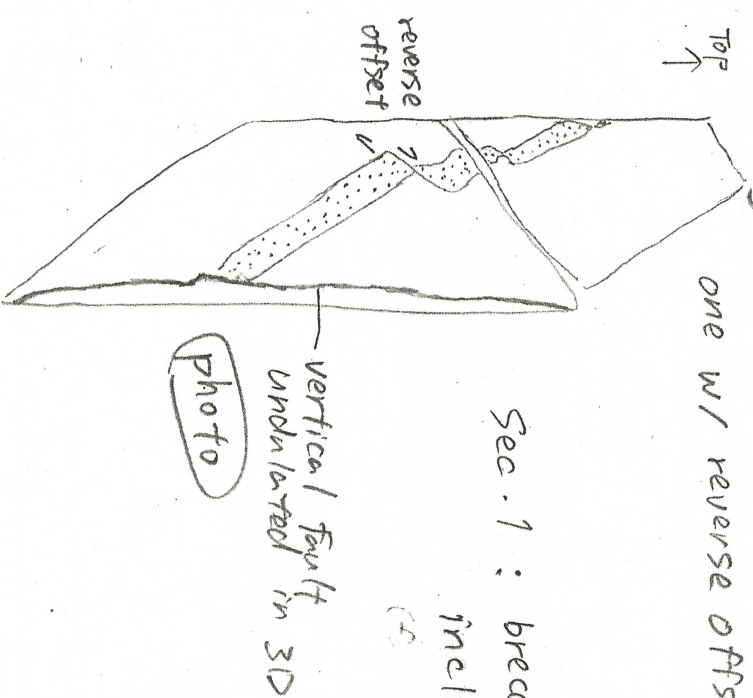


Sec. 1 brecciated along inclined faults // bed

Sec. 3 0-20cm: brecciated along the sets of fault

23-27cm: brecciated into mm scale fragments
38-bottom: relatively coherent

inclined bed cut by faults
one w/ reverse offset



Sec. 1: brecciated along inclined fault

Sec. 4 breccias possibly by both + drilling and faulting

Structural Geology

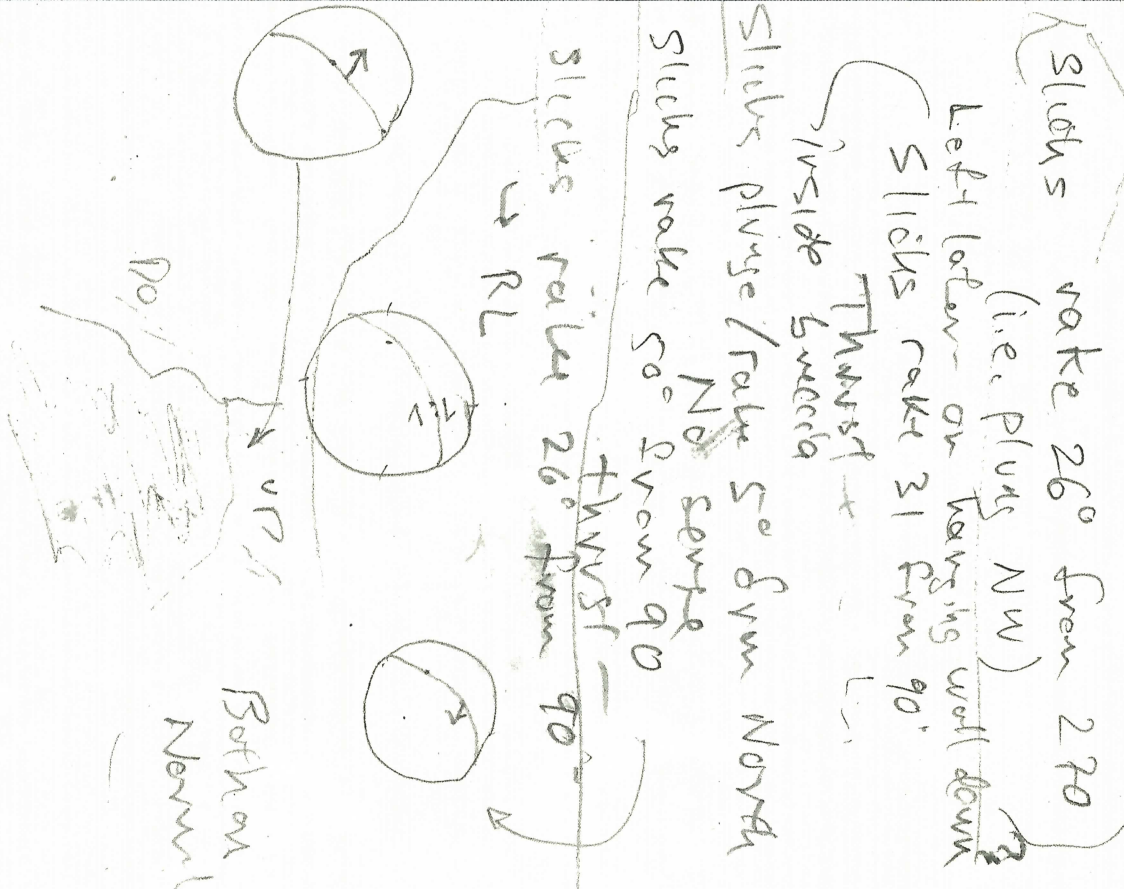
Exp: 215 Site: C00028 Core: 63R Observer: KU Summary:

structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app. dip		orientation		orientation		coherent interval (for P-)		P-mag pole		corrected orientation		
					az.	dip	az.	dip	strike	dip	dip dir	dip	top	bottom	az/trend	dip	az/trend	dip	
1	Loamse Bavaria fossilic	17	31		270	42	180	17	17					18	36				
		29	31		270	54	56	0	0										
	5' Fault in S.S.	57	63		90	68	5	0	0										
	fault	111	114		270	36	0	54	54										
	Fault	114	118		270	28	0	44	44										
2	Thrust Fault	29	32		90	23	0	13	13					17	32				
	Fault	40	44		270	76	54	0	0										
	fault	44	47		90	47	43	0	0										
	Thrust Fault	20	23		90	35	180	17	17					32	60				
	Normal Fault	26	80		270	44	180	60	60					66	82				

CC Drilling
obs 8 mts
Remnants

15-25
208.3

① This represents breccia
fossils



Drilling mud at base 20 cm

Bottom Normal

Structural Geology

Exp: 315 Site: 00209 Core: 641 Observer: TM Summary:

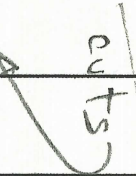
structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app.		2nd app.		orientation		orientation		coherent interval (for P.)	P-mag pole	corrected orientation	
					az.	dip	az.	dip	strike	dip	dip dir	dip				top
bed	45	46		1cm	270	11	180	23								
S. Gault	49	57			90	8	0	83								
bed	52	53		1cm	270	7	180	29								
bed	58	59		1cm	270	12	180	23								
N-HH	60	63			90	72	180	58								
N-HH	70	75			90	42	0	57								
N-HH	74	75			90	8	0	30								
L.S. CH-1	10	18			70	57	0	57								
CH-1	17	18			270	18	180	37								
CH-1	19	23			270	38	180	42								
ANDORWA	21	26			270	65	180	65								
THURSTON	36	46			270	52	0	0								
shear zone	55	59			270	24	0	24								
Normal fault	47	59			270	60	0	0								

notes
rubble and con sample

L.S.

40-100
94.3

Drilling?



Slicks were 50° from 270°
Slicks were 15° from 90° - Thrust
Slicks were 14° from 90°

Slicks were 0° from 90°
Slicks were 56° from 270°

cuts shear zone →

block shear

fault

2

1

section

