

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C0002 Hole: R Date: Jan 19, 2019 Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
97						
Observer YY	vein or mineral filled fracture	—	—			Cement Present?
	slickenline	—	—			
Depth (mbsf) 28275	scaly fabric	—	—			Other observations/ sketches
	deformation band/ cataclastic band	—	—			
	drilling induced deformation	—	2			
Size (mm) 9 or 1-4	bedding present?	—	—			
	no deformation	14	114			
	other :		5		Pyrite. 2 cement - fine	

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
97						
Observer YY	vein or mineral filled fracture					Cement Present?
	slickenline					
Depth (mbsf) 28275	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) 9 or 1-4	bedding present?			1		
	no deformation	10	262			
	other :				1 cement	

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C0002 Hole: R

Date: Jan 19 2019

Summary: Non-deformed section

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
150						
Observer CR	vein or mineral filled fracture	-	-	-		Cement Present? <del>1 mag</del>
	slickenline	-	-	-		
Depth (mbsf) 2847.5	scaly fabric	-	-	-		Other observations/ sketches Soft white sandstone present. Some pyrite burrows & laminae present 1 sponge spicule
	deformation band/ cataclastic band	-	-	-		
	drilling induced deformation	-	3	-	drill induced silt laminae in sand/silt partings	
Size (mm) ⊙ > 4 or 1-4	bedding present?	2	1	-		
	no deformation	34	264	-		
	other:					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
150						
Observer CR	vein or mineral filled fracture	-	1	-	1 small milky calcite vein	Cement Present?
	slickenline	-	-	-		
Depth (mbsf) 2847.5	scaly fabric	-	-	-		Other observations/ sketches
	deformation band/ cataclastic band	-	-	-		
	drilling induced deformation	-	-	-		
Size (mm) > 4 or ⊙ 1-4	bedding present?	-	-	-		
	no deformation	26	248	-		
	other:					



# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: 0002 Hole: R

Date: 19/01/2019

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
154						
Observer J.D	vein or mineral filled fracture	/	/	1	1 fragment of calcite vein	Cement Present? 1 soft white cement rounded cutting
	slickenline	/	/	/		
Depth (mbsf) 2867.5	scaly fabric	/	/	/		Other observations/ sketches ≈ 10 platy cavings 1 splinter
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	7	/	7 drilling induced shales	
Size (mm) ④ or 1-4	bedding present?	/	/	/	no	
	no deformation	16	218	/	framboidal pyrite in silty clay stone - burrows filled with pyrite, 1 diagenetic bed of pyrite, 1 spongy pyrite	
	other :					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
154						
Observer J.D	vein or mineral filled fracture	0	0	1		Cement Present? 2
	slickenline	0	0	0		
Depth (mbsf) 2867.5	scaly fabric	0	0	0		Other observations/ sketches
	deformation band/ cataclastic band	0	0	0		
	drilling induced deformation	0	0	0		
Size (mm) > 4 or ④	bedding present?				no	
	no deformation	30	560	0		
	other :					

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C002 Hole: R

Date: Jan 19 2019

Summary: Blah cuttings, Significant cement + platy cavings

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
230						
Observer CR	vein or mineral filled fracture					Cement Present? 59 ~4-5mm sub angular to sub rounded
	slickenline					
Depth (mbsf) 2887.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation		5		drill induced striae	
Size (mm) ① > 4 or 1-4	bedding present?	3	—	—	laminae in sand, 2 contact between sands	
	no deformation	15	244			
	other: 9 flat platy cavings 10 thin splintery cavings		19			

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
230						
Observer CR	vein or mineral filled fracture	—	—	—		Cement Present? 14
	slickenline	—	—	—		
Depth (mbsf) 2887.5	scaly fabric	—	—	—		Other observations/ sketches
	deformation band/ cataclastic band	—	—	—		
	drilling induced deformation	—	—	—		
Size (mm) > 4 or ① 1-4	bedding present?	—	—	—		
	no deformation	13	228	—		
	other: 2 thin splintery cavings		2			



# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C0002 Hole: R

Date:

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
236						
Observer JD	vein or mineral filled fracture	0	0	0		Cement Present? 26 (1 brown with clast of grey cement, 25 grey)  Other observations/ sketches
	slickenline	0	0	0		
Depth (mbsf) 2907.5	scaly fabric	0	0	0		
	deformation band/ cataclastic band	0	0	0		
	drilling induced deformation	0	1	0	1 drill induced striae	
Size (mm) ④ or 1-4	bedding present?	0	0	0	no.	
	no deformation	15	272		burrows filled with pyrite - sponge spicules in mudstones	
	other:					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
236						
Observer JD	vein or mineral filled fracture	0	0	0		Cement Present? 77 grey cement  Other observations/ sketches
	slickenline	0	0	0		
Depth (mbsf) 2907.5	scaly fabric	0	0	0		
	deformation band/ cataclastic band	0	0	0		
	drilling induced deformation	0	0	2	drill induced striae	
Size (mm) > 4 or ④	bedding present?	0	0	0	no	
	no deformation	44	542	/		
	other:					

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: 0002 Hole: R

Date: 19 Jan 2013

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
272						
Observer YY	vein or mineral filled fracture					Cement Present?
	slickenline					
Depth (mbsf) 2927.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) ① > 4 or 1-4	bedding present?					
	no deformation	8	91			
	other:			5 2	Cement PYRITE.	

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
272						
Observer YY	vein or mineral filled fracture					Cement Present?
	slickenline					
Depth (mbsf) 2927.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) > 4 or ① 1-4	bedding present?					
	no deformation	5	116			
	other:			5	cement	



# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: 1002 Hole: R

Date: Jan 19 2019

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
289						
Observer CR	vein or mineral filled fracture	—	—	1	anastomosing, cross-cutting crack seal calcite vein	Cement Present? 4 (3 are 4cm 1 is large 2-3cm)
	slickenline	—	—	—		
Depth (mbsf) 2947.5	scaly fabric	—	—	—		Other observations/ sketches light grey fine sandstone present
	deformation band/ cataclastic band	—	—	—		
	drilling induced deformation	—	—	—		
Size (mm) ( > 4 ) or 1-4	bedding present?	—	2	—	faint laminae	some conings are partly rounded
	no deformation	13	168	—		
	other: 3 splintey + 8 platy 4 pyrite burrows		11 4			


Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
289						
Observer CR	vein or mineral filled fracture	—	—	—		Cement Present? 5
	slickenline	—	—	—		
Depth (mbsf) 2947.5	scaly fabric	—	—	—		Other observations/ sketches soft white sand present
	deformation band/ cataclastic band	—	—	—		
	drilling induced deformation	—	—	—		
Size (mm) > 4 or ( 1-4 )	bedding present?	—	—	—		
	no deformation	8	204			
	other:					

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: 0002 Hole: R

Date: January 19 2019

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
297						
Observer J.D	vein or mineral filled fracture	/	/	1	calcite vein	Cement Present? 11 cement: - 2 coating around mudstone - 9 grey / pink
	slickenline	/	/	/		
Depth (mbsf) 2967.5	scaly fabric	/	/			Other observations/ sketches cuttings are rounded  Sandstone    mudstone only 2 platy coatings
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	/	/		
Size (mm) > 4 or 1-4	bedding present?	/	/	/		
	no deformation	29	167	/	only a few framboidal pyrite coarse cuttings have pyrite grains	
	other :					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
297						
Observer J.D	vein or mineral filled fracture	/	/	2	2 calcite veins fragments + 2 fragments of burrower sponge spicule filled with calcite	Cement Present? 11 cements light grey / pink 1 coating on mudstone
	slickenline	/	/	/		
Depth (mbsf) 2967.5	scaly fabric	/	/	/		Other observations/ sketches
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	/	/		
Size (mm) > 4 or 1-4	bedding present?	/	/	/	no	
	no deformation	53	481	/		
	other :					



# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C0002 Hole: R

Date: Jan 20 2019

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
303						
Observer J.D	vein or mineral filled fracture	/	/	/		<b>Cement Present?</b> 2 light grey with brown cement clasts.
	slickenline	/	/	/		
Depth (mbsf) 2987.5	scaly fabric	/	/			<b>Other observations/ sketches</b> Sandstones are rounded, mudstones are more angular
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	1	/	drill induced striae	
Size (mm) (>4) or 1-4	bedding present?				no	<b>Coatings:</b> - splinters: 9 - platy: 11
	no deformation	32	178	/	burrows filled with pyrite in mudstones	
	other:					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
303						
Observer J.D	vein or mineral filled fracture					<b>Cement Present?</b> 34 light grey/pink cements
	slickenline	/	/	/		
Depth (mbsf) 2987.5	scaly fabric	/	/	/		<b>Other observations/ sketches</b>
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	/	/		
Size (mm) > 4 or (1-4)	bedding present?				yes	
	no deformation	80	341	/		
	other:					

# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: C0002 Hole: R Date:

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
314						
Observer YY	vein or mineral filled fracture		1		brown-colored carbonate vein (fizz)	Cement Present? Y. (2.)
	slickenline					
Depth (mbsf) 3007.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) ① > 4 or 1-4	bedding present?				2 cement (1 with metal)	
	no deformation	7	101			
	other :					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
314						
Observer YY	vein or mineral filled fracture					Cement Present? Y (6)
	slickenline					
Depth (mbsf) 3007.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) > 4 or ① 1-4	bedding present?					
	no deformation	8	188			
	other :					



# Structural Geology Cuttings Observation Sheet

Exp.: 358 Site: Coosel Hole: R

Date:

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
320						
Observer	vein or mineral filled fracture					<b>Cement Present?</b> 1 siltstone cutting coated in cement 5 cement <b>Other observations/ sketches</b> white sandstones present
	slickenline					
Depth (mbsf)	scaly fabric					
3027.5	deformation band/ cataclastic band					
	drilling induced deformation		6		drill induced striae	
Size (mm)	bedding present?	1	1			
>4 or 1-4	no deformation	4	204			
	other: 15 splintery cavings 13 flat platy cavings		15/15			

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
320						
Observer	vein or mineral filled fracture					<b>Cement Present?</b> 5 tiny cements ~ 1mm <b>Other observations/ sketches</b>
	slickenline					
Depth (mbsf)	scaly fabric					
3027.5	deformation band/ cataclastic band					
	drilling induced deformation		3		drill induced striae	
Size (mm)	bedding present?			1		
>4 or (1-4)	no deformation	13	220			
	other:					

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Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
324						
Observer YY	vein or mineral filled fracture					Cement Present? Y (1)
	slickenline					
Depth (mbsf) 3047.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation		3		shiny striation (drill-induced)	
Size (mm) (4) or 1-4	bedding present?		1		lamination	
	no deformation	0	112			
	other :					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
324						
Observer YY	vein or mineral filled fracture					Cement Present? N
	slickenline					
Depth (mbsf) 3047.5	scaly fabric					Other observations/ sketches
	deformation band/ cataclastic band					
	drilling induced deformation					
Size (mm) (4) or 1-4	bedding present?					
	no deformation	5	97			
	other :					



# Structural Geology Cuttings Observation Sheet

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Date: January 20 2019

Summary:

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
332						
Observer JD	vein or mineral filled fracture	/	/	/		<b>Cement Present?</b> 4 grey and brown cement. clast of intact cuttings in brown and grey cement <b>Other observations/sketches</b> drawings: - platy: 3 - splinters: 2  1 mudstone with rounded light grey clasts of mudstone/siltstone.
	slickenline	/	/	/		
Depth (mbsf) 3067.5	scaly fabric	/	/	/		
	deformation band/ cataclastic band	/	/	/		
	drilling induced deformation	/	14	/	-chilling induced shiny striae	
Size (mm) ( > 4 ) or 1-4	bedding present?	/	/	/	no	
	no deformation	38	212		burrows filled with pyrite	
	other :					

Cuttings #	Structure ID	# in Sandstone	# in mudstone (silt to clay)	# (Lithology not noted)	Comment	Miscellaneous
332						
Observer CR	vein or mineral filled fracture			1	calcite vein fragment	<b>Cement Present?</b> 7 fragments  <b>Other observations/sketches</b>
	slickenline					
Depth (mbsf) 3067.5	scaly fabric					
	deformation band/ cataclastic band					
	drilling induced deformation		3		drilling induced striae	
Size (mm) > 4 or ( 1-4 )	bedding present?					
	no deformation	9	232			
	other :					