

EGS Collab Rock Core Log, Sanford Underground Research Facility 4100' Level

Experiment #	Borehole ID	Scribed (red line)? Y/N
Depth Interval (ft)	Box #	Run #
Date	Core Logger(s)	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		
1		
1		
0.5		
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0.5		
1		

Filename range (digital core images)

Time to drill = N/A

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Experiment #	Borehole ID TH400	Scribed (red line)? Y/N NO
Depth Interval (ft) 1.8' - 6.9'	Box # 1	Run # 2
Date 7/2/2019	Core Logger(s) Horner & Reimers	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5	Drill Damage (2x drilled over) Re-start of scribed lines	1-2 cm micaceous zone, calcite present
1	Calcite veinlets Calcite inclusion	NiSi = Natural Fracture MiSi = Mechanical Fracture Amphibolite throughout
0.5	MiSi 80° MiSi 69° Calcite veinlet	
1	Calcite	
0.5	Potentially permeable Brecciated Zone Brecciated MiSi along NiSi 60°	NiSi } Softer, lighter colored material w/ calcite inclusions
1	MiSi (x2) end in pinch pt 2.3cm depth MiSi 68° 72° MiSi	

Time to drill = N/A

Filename range (digital core images)

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Experiment #	Borehole ID TH4100	Scribed (red line)? Y/N
Depth Interval (ft) 6.9' - 12.05'	Box # 1	Run # 3
Date 7/2/2019	Core Logger(s) Horner & Reimers	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1		M.S. _i = Mechanical Structure thin lines = Calcite veins
0.5 1		
0.5 1		25°
0.5 1		
0.5 1		

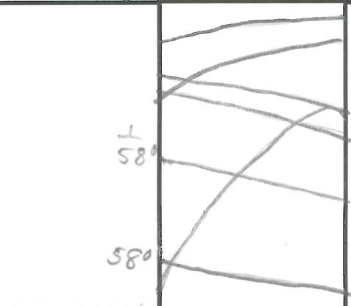
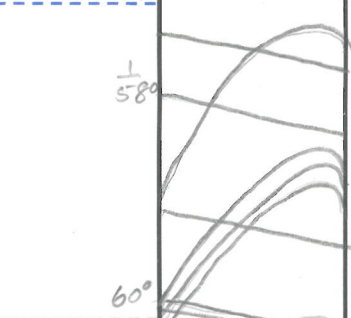
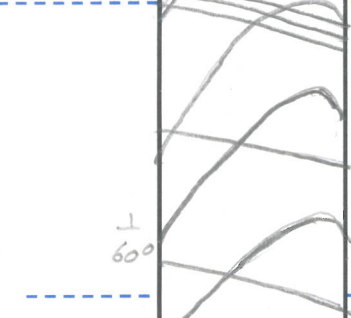
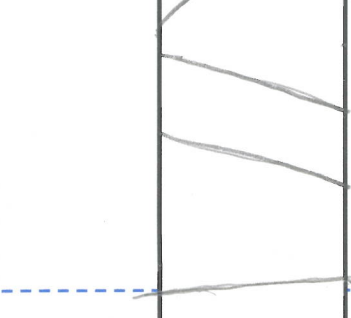
start time 15:40 → 16:10 = 30

Filename range (digital core images)

start time 15:40 $\rightarrow$ 16:10 = 30 min

EGS Collab Rock Core Log, Sanford Underground Research Facility 4100' Level

Experiment #	Borehole ID TH4100	Scribed (red line)? Y/N yes
Depth Interval (ft) 12.05 - 17.30	Box # 2	Run # 4
Date July 2, 2019	Core Logger(s) Horton & Reimers	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1		Amphibolite with numerous 0.5-2 mm veinlets at two primary orientations. All healed w/ no apparent weak zones.
0.5 1		
0.5 1		
0.5 1		
0.5 1		Both fractures across veins. irregular carbonate-rich micaceous zone to end of core run.

Filename range (digital core images)

Drill time = 30 min. (16:22-16:52)

EGS Collab Rock Core Log, Sanford Underground Research Facility 4100' Level

Experiment #	Borehole ID	Scribed (red line)? Y/N
Depth Interval (ft)	Box #	Run #
Date	Core Logger(s)	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		mafic micaceous lamination ~1cm numerous .5-1 mm carbonate veins
1		numerous carbonate stringers
0.5		carbonate veins 53° Mifi mafic micaceous lamination(?)
1		M:Ri ~90° carbonate veins
0.5		55° Mifi
1		75° Mifi

Filename range (digital core images)

Drill Time = 34 min (17:04 - 17:38)

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Experiment #	Borehole ID	Scribed (red line)? Y/N
Depth Interval (ft) 22.5 - 27.6'	Box # 2	Run # 6
Date July 2, 2019	Core Logger(s)	Horner & Reimers

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5	2mm Calcite vein	5mm Halo Alteration 2mm Calcite Filled Frac
1	2mm Calcite vein	M.S. = mechanical Fracture
0.5	Pyrite Silled pores	
1	53°, 5mm Halo, <1mm Calcite vein 80°, 1mm silled calcite veins	
0.5	61° offset of 2mm	55°, 4mm halo w/ multiple calcite veins silled frac.
1	57°, 6mm Halo Alteration w/ 1mm silled calcite vein	50°, 3mm halo alteration w/ <1mm silled calcite vein
0.5	60° calcite silled fracture	
1	offset 1/2mm 60°	group (3) 3mm, no alteration, calcite silled fracture
0.5	M.S. healed shear Zn.	calcite silled inclusion
1		Time to drill = 28m

Filename range (digital core images)

> healed Shear zone

1.1-1.3m thick

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Experiment #	Borehole ID TH4100	Scribed (red line)? Y/N yes
Depth Interval (ft) 27.6' - 33.5'	Box # 3	Run # 7
Date July 2, 2019	Core Logger(s) Horner & Reimers	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5	Calcite filled 3mm, 15° Halo Alt	Calcite inclusion
1	2mm, 28° Calcite filled	
0.5	2mm, 48°	
1	offset 1.2cm, 6mm Halo alteration, <1mm calcite filled vein (large amount respective to core)	1.6' - 2' irregular, non-linear calcite inclusions
0.5	25°, 2mm Calcite filled alteration	
1	30°, <2mm Calcite filled vein	Irregular, 5mm 30° calcite filled vein
0.5	32° 2mm Halo alteration w/ <1mm filled calcite vein	
1	36° 2mm Halo alt. w/ >1mm filled calcite vein	
0.5	32° 2mm Halo alt. w/ <1mm filled calcite vein	
1	32°, 2mm Halo alt w/ <1mm filled calcite vein	
0.5	Large calcite inclusions irregular, 7mm-15mm, 68°	
1	irregular calcite inclusions	

Filename range (digital core images)

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Experiment #		Borehole ID		Scribed (red line)? Y/N	
Depth Interval (ft)		Box #		Run #	
Date		Core Logger(s)			
Depth		Sketch [fractures, foliation & fold directions]		Notes	
0.5		18°		Log is a map of thin 1/2-1 mm carbonate veins within amphibolite. No fractures or breaks. Veins have 2 primary orientations. - thin carbonate at core surface	
1		33°			
0.5		33°		1mm carbonate vein w/ 1cm alteration halo (1/2 cm each side of vein)	
1		23°			
0.5		23°			
1		26°			
0.5		End of core (35.8')			
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