

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>EI-P</i>	Scribed (red line)? Y/N <i>too broken to scribe</i>
Depth Interval (ft) <i>0-3</i>	Box #	Run # <i>1</i>
Date <i>10/25/17</i>	Core Logger(s) <i>Luke & Megan</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0	↑ ↑		SH	<p style="text-align: center;">} Damaged Zone, heavily fractured, blasting</p> <p style="text-align: center;">← Iron oxide or similar looking precipitant on fracture surface, blasting fracture</p>
1	↓		SH	
1	↑ ↓		SH	<p style="text-align: center;">← Mechanical break</p> <p style="text-align: center;">← Persistent Mica sheet, slippery, mechanical break</p>
1.5	↓	30°	SH	
2	↑ ↓		SH	<p style="text-align: center;">← Wormholed fracture along foliation altered from flow to/from drift?</p> <p style="text-align: center;">← Mechanical break containing singular isolated crystals and fractures with iron oxide and other precipitants</p>
2.5	↓		SH	
3	↑ ↓		SH	

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N <i>started scribe</i>
Depth Interval (ft) 3-8	Box #	Run # 2
Date 25 OCT 2017	Core Logger(s) Luke & Megan	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
3 0.5	Mineral			Precipitant filled fracture, no calcite
4 1	Resin bolt			* Bolt intercept indicates that "UP" is now marked with red-blue scribe lines
4 0.5	bottom		Vertical Foliation 100° Vertical Fracture 20° Vertical open	Dissolution along foliation Dissolution along fracture
5 1	Wavelength of foliations and bolts of size			Micas, pyrite?, minerals on foliated plane of weakness, broken mechanically
5 0.5			30° 100° Healed fracture set	
6 1			45° 55°	Crossing precipitant/dissolution fractures
7 0.5	Dissolved cavity with growing crystals dropped			Fracture at dissolution cavity, mechanical
7 1				Cross foliation precip filled joints
8 0.5				
8 1				

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>EI-P</i>	Scribed (red line)? <i>Y/N</i>
Depth Interval (ft) <i>8-13</i>	Box #	Run # <i>3</i>
Date <i>10/25/17</i>	Core Logger(s) <i>Megan & Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: center;">8</div>	<div style="text-align: center;">Foliation</div>	<div style="text-align: center;">Scribe aligned with RUN 2</div> <p>← Dissolved channels</p> <p>← silicate filled fracture along foliation with some dissolution wormholes</p>
<div style="text-align: center;">9</div>	<div style="text-align: center;">Fracture</div>	<p>← Mechanical break, no obvious weakness</p> <p>← silicate filled fracture</p> <p>← strike horizontal, significant silicate scaling infilling (~1/8"), also dissolution wormholes</p>
<div style="text-align: center;">10</div>		<p>← Foliation fracture, larger crystals (2-4mm) inside fracture, silicate scaling</p>
<div style="text-align: center;">11</div>		<p>← Silvery mineral inside fracture w/ silicates</p>
<div style="text-align: center;">12</div>		
<div style="text-align: center;">13</div>		<p>No significant fracturing</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment # E1	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 13-18'	Box # (2)	Run # 4
Date 26 OCT 2017	Core Logger(s) Megan, Luke, Sterling	

13

14

15

16

17

18





Depth	Sketch [fractures, foliation & fold directions]		Fracture	Notes
0.5 1	Mineral	Foliation 30°	Fracture	Scribe aligned with Run 3 ← 60° Dip fracture w/ infilling silica
0.5 1		50°		← 70° Dip fracture w/ mineral infilling sulfide & silica separated
0.5 1	Remineralization	30°		
0.5 1	Remineralization	20°	Fracture	← Wide ~ 1/2" fracture band with remineralized, silicate filled pockets, possible old shear band

Mostly competent

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment # <i>E1</i>	Borehole ID <i>E1-P</i>	Scribed (red line)? <i>Y/N</i>
Depth Interval (ft) <i>18-20.5</i>	Box #	Run # <i>5</i>
Date <i>26 OCT 2017 (TW)</i>	Core Logger(s) <i>Megan, Luke, Sterling</i>	

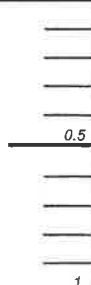
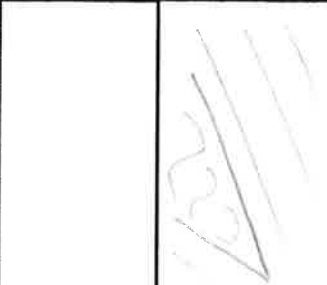
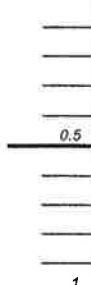
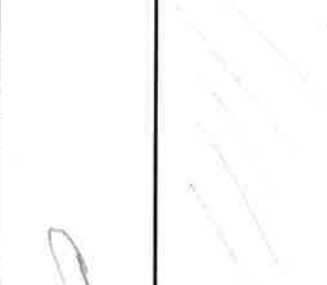

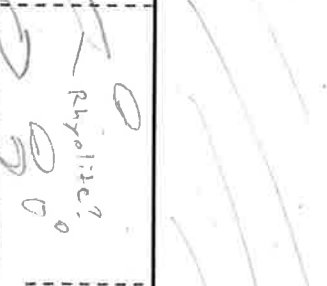
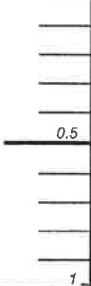
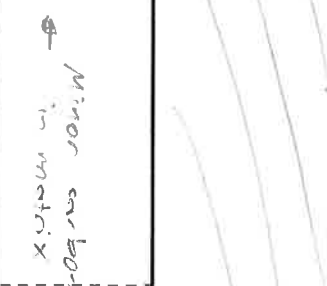
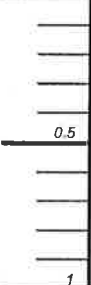
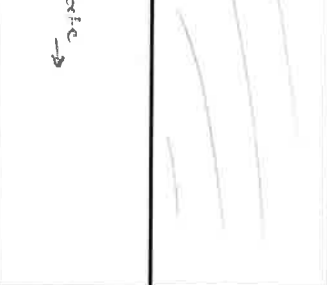
Depth	Sketch [fractures, foliation & fold directions]			Notes
<div style="position: absolute; left: -100px; top: 50%; transform: translateY(-50%); font-size: small;">subcore region</div> <div style="position: absolute; left: -100px; top: 45%; transform: translateY(-50%); font-size: x-small;">1.0m</div> <div style="position: absolute; left: -100px; top: 40%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 35%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 30%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 25%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 20%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 15%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 10%; transform: translateY(-50%); font-size: x-small;">0.5m</div> <div style="position: absolute; left: -100px; top: 5%; transform: translateY(-50%); font-size: x-small;">0.5m</div>	<p><i>Silicate Patches</i></p>  <p><i>Silicate Patches</i></p> <p><i>Discontinuity</i></p> <p><i>remobilization</i></p> 	<p style="text-align: center;"><i>Foliation</i></p> 	<p style="text-align: center;"><i>Fracture</i></p> 	<p style="text-align: center;">↑</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">↔</p> <p style="text-align: center;">↔</p> <p style="text-align: center;">↔</p> <p style="text-align: center;">↔</p>
				<p>Complex foliation no cross fractures</p> <p>Mechanical break along & across Weak foliations</p> <p>Fracture infilled segment</p> <p>Mechanical break</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment # <i>E1</i>	Borehole ID <i>E1-P</i>	Scribed (red line) <input checked="" type="checkbox"/> <i>YN</i>
Depth Interval (ft) <i>23-28'</i>	Box #	Run # <i>7</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

23

Depth	Sketch [fractures, foliation & fold directions]	Notes
		<p style="text-align: center;"><i>Core aligned with RUN 6</i></p> <p>Pyrite filled foliation seam</p> <p>Open quartz & pyrite filled pocket in fracture</p>
		<p>Silicate infilled fractures</p>
	<p><i>Rhyolite?</i></p> 	<p>Silicate infilled fracture</p> <p>Mechanical breaks</p>
	<p><i>Minor carbonate in matrix</i></p> 	<p>Mechanical breaks</p>
		<p>Silicate fracture</p>

28

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>28-33</i>	Box #	Run # <i>8</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

28

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	<i>dark</i>			<p style="text-align: right;"><i>Orientation lost</i></p> <p>← <i>stepping natural cross-foliation fracture</i></p> <p>← <i>Infilled fracture</i></p>
0.5 1				
0.5 1				<p>← <i>Infilled fracture</i></p>
0.5 1	<i>dyke</i>			
0.5 1	<i>dark</i>			

highly competent

33

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>33 - 38</i>	Box #	Run # <i>9</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: right; margin-right: 5px;">33</div>	<p style="text-align: right;">Orientation lost</p> <p>← Calcite filled fracture</p> <p>← Carbonate & Pyrite in foliation joint</p> <p>← Competent interval</p>	
	<p>← Mechanical break through larger quartz crystal</p>	
<div style="text-align: right; margin-right: 5px;">37</div>	<p>← Pyrite filled intact fracture</p> <p>← Mica filled slippery fracture (low μ)</p> <p>← Complex but mostly competent</p>	
<div style="text-align: right; margin-right: 5px;">38</div>	<p>← large pyrite pocket</p>	

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>38' - 43'</i>	Box #	Run # <i>10</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

38

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				
0.5 1	<i>Quartz</i>			<i>Not a fracture, but a contact *</i>
0.5 1	<i>Quartz</i>			<i>Fracture in calcareous rock, not darker rock next to it, terminates at boundary</i>
0.5 1	<i>Interspersed calcite throughout</i> <i>Rhyolite?</i>			
0.5 1				<i>Infilled microfracture</i>

highly competent

43

Filename range (digital core images)



EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>EI-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>43-48</i>	Box #	Run # <i>11</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

43

44

48

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0.5 1			↑	
0.5 1			No fractures	
0.5 1			↑	
0.5 1			↑	
0.5 1			↓	Mechanical break

highly competent rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>48-53</i>	Box #	Run # <i>12</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
<div style="text-align: right; margin-right: 5px;"><i>48</i></div> <div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	
<div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	<div style="text-align: center;"> </div>	

Competent Rock

48

51

53

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>EI-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>53'-58'</i>	Box #	Run # <i>13</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1		?		<i>Aligned with 12</i>
0.5 1	<i>no calcite crystals in fractures</i>	?		<i>Connected permeable fracture</i>
0.5 1	<i>calcite pyrite</i>	?	<i>45°</i>	<p><i>Major high aperture fracture (~3/4") large well formed carbonate crystals within fracture, also silvery pyrite</i></p> <p><i>↳ Interpretation = high perm interconnected pockets if intercepted by hydrofrac</i></p>
0.5 1	<i>calcite pyrite</i>	?	<i>45°</i>	<i>Small infilled fracture</i>
0.5 1	<i>quartz</i>	?	<i>45°</i>	<p><i>Major high aperture fracture (~3/8") carbonate filled with silvery and golden pyrite</i></p> <p><i>↳ Also high perm zone, note proximity to above = branched fracture sheared</i></p>

Potential HF thief zone

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>EI-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>58-63</i>	Box #	Run # <i>14</i>
Date <i>10/30/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	<i>quartz</i> 			← Infilled fracture, white mineral
0.5 1				← Foliation fracture, slick, micaceous (low μ) ← Infilled fracture, white mineral
0.5 1	<i>quartz</i> 			← Foliation fracture, slick, mica mechanical ← Infilled fracture, white mineral permeable
0.5 1				← Foliation fracture, slick, mica mechanical
0.5 1				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Note: HCL depleted </div>

Note regular spacing of foliation // weaknesses = set

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL










Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>63-68</i>	Box #	Run # <i>15</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	↑	↘ ↙		<i>Scribe aligned with run 14</i>
0.5 1	↑ <i>Intermixed Calcite</i>	↘ ↙		
0.5 1	↓ <i>Pyrite</i>	↘ ↙	↘ ↙	<i>Silica filled joints</i> <i>Mechanically separated silica filled fracture (~1/8")</i> <i>Mechanical fracture</i>
0.5 1	↑ <i>Sparse Calcite</i>	↘ ↙	↘ ↙	<i>Silica infilled joint</i>
0.5 1	↓	↘ ↙		

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>68-73</i>	Box #	Run # <i>16</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				Scribe aligned with 15
0.5 1				← Cross foliation infilled fracture
0.5 1				← Mechanical fracture across foliation
0.5 1				← Unseparated foliation fracture ← Silica infilled fracture
0.5 1				

Highly competent

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>73' - 78'</i>	Box #	Run # <i>17</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]			Notes <i>Aligned with run 16</i>
0.5 1				
0.5 1				
0.5 1				
0.5 1				
0.5 1				

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>78-83</i>	Box #	Run # <i>18</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1		↑	↑	<i>Scribe aligned with 17</i>
0.5 1		No fractures	↓	
0.5 1		← Mechanical break along infilled fracture	↓	
0.5 1		← Small infilled fracture	↓	
0.5 1		← Small infilled fracture	↓	

Mostly competent

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth interval (ft) 83-88	Box #	Run # 19
Date 10/31/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes	
0.5 1				<p style="text-align: right;">Aligned with run 18</p>	
0.5 1				<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Minor carbonate</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Mica cious Foliations</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Small fractures infilled with calcite or silica</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">No major fractures</p>
0.5 1					
0.5 1					
0.5 1					
0.5 1					

Very competent rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>88-93'</i>	Box #	Run # <i>20</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0.5 1		Foliation		<p style="text-align: center;"><i>Aligned with 19</i></p> <div style="position: absolute; right: -100px; top: 50%; transform: translateY(-50%); font-size: small;">Competent</div> <div style="position: absolute; right: -100px; bottom: 50%; transform: translateY(50%); font-size: small;">Fractured</div>
0.5 1	<i>calcite minor</i>			
0.5 1				
0.5 1	<i>quartz</i>			
0.5 1	<p><i>Leached</i></p> <p><i>No calcite</i></p> <p><i>silica infilled fracture set</i></p>		<p><i>Silica filled fracture sets, crossing</i></p>	
0.5 1			<p><i>shear</i></p>	<p><i>long calcite filled fracture terminates at shear along silica infilled fracture</i></p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 93 - 98'	Box #	Run # 21
Date 10/31/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	<p>minor Calcite matrix</p>	<p>ROTATION ABOUT AXIS</p>		<p>silica filled fracture set</p>
0.5 1				<p>Calcite infilled fracture sub // to core</p>
0.5 1				<p>Calcite infilled fracture</p>
0.5 1				<p>Infilled fracture // to core</p>
0.5 1				<p>Mechanical fracture</p>
0.5 1		<p>Sub //</p>		<p>Calcite filled, stranded fracture</p>
0.5 1				<p>Calcite filled fracture</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>98-103</i>	Box #	Run # <i>22</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				<p style="text-align: right;"><i>Aligned with 21</i></p> <p>↖ Silica in-filled jointset, likely permeable</p>
0.5 1				<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>* New leak noticed out of E1-OT</p> </div> <p>↳ Possible communication with fracture between holes, depth unknown but < 108 ft</p>
0.5 1				<p>* Outlet temp est 70°F</p> <p>* Time 12:50 pm</p> <p>* Rate 1 drip/sec</p>
0.5 1				<p>Nearly axial in-filled joint set in-filled with golden pyrite, quartz & silica</p> <p>Complex banded/stranded structure + strong shear displacement (~2")</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>103 - 108</i>	Box #	Run # <i>23</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes	
0.5 1	↑ <i>minor calcite pyrite flecks</i> ↓	[Diagonal hatching]	[Fracture sketch]	Aligned with run <i>22</i> Pyrite, Calcite, Quartz infilled sheared fracture set	
0.5 1			[Fracture sketch]	Ring is artifact, fracture // to core	
0.5 1			[Fracture sketch]	[Fracture sketch]	
0.5 1			[Fracture sketch]	[Fracture sketch]	Calcite filled

Longitudinally Fractured Zone

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>108-113</i>	Box #	Run # <i>24</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0.5 1		Foliation		Notes <i>Aligned with run 23</i>
0.5 1	<i>Silvery Pyrite Light</i>		<i>no shear</i>	
0.5 1	<i>Dark Light</i>			<i>Core // pyrite & calcite filled fracture</i>
0.5 1				<i>calcite filled foliation joint</i>
0.5 1				<i>infilled micro fracture</i>
0.5 1				
0.5 1				

longitudinally fractured

competent rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>113-118</i>	Box #	Run # <i>25</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes		
0.5 1				<p style="text-align: center;"><i>Aligned with 24</i></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><i>Note:</i> Water now feels cooler (~65F) at E1-OT flow, flow speed is directly coupled with drilling water flow, inlet temp is cooler yet at (~50 F)</p> <p><i>15:22 time</i></p> </div> <p>Plus, flow is faster than when previously noted, possible second communicating fracture set</p>		
0.5 1				<p><i>Minor calcite</i></p>	<p><i>Intrusion</i></p>	<p><i>Silica infilled fracture, separated</i></p>
0.5 1				<p><i>pyrite quartz calcite</i></p>		<p><i>Chemically etched fracture set, calcite filled, porous</i></p>
0.5 1						<p><i>Infilled microfracture // to core</i></p>
0.5 1						<p><i>cross foliation infilled fracture</i></p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 118-123	Box #	Run # 26
Date 10/31/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
<div style="text-align: center;">↑</div> <div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p style="text-align: center;">Aligned with 25</p> <p>← Microfracture, infilled</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p>← Infilled fracture crossing foliation</p> <p>Fracture infilled with dark mineral</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p>← Infilled fracture within darkened bands, combined leach + precipitation flow?</p> <p>Spur fractures, wet, permeable</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p>Parous chemically etched fracture with void space, pyrite crystals, pointy quartz crystals, silicate, and calcite fill \cong Permeable, ($\sim 3/8"$)</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="text-align: center;">↑</p> <p style="text-align: center;">This could be associated with higher flow from E1-OT</p> </div>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>123-128</i>	Box #	Run # <i>27</i>
Date <i>10/31/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				<i>Aligned with d6</i>
0.5 1	<i>Intrusion?</i>	<i>ROTATES</i>		
0.5 1	<i>Quartz</i>	?		<i>Silica infilled fracture set</i>
0.5 1				<i>Silica infilled fracture // to core</i>
0.5 1	<i>quartz + pyrite</i>			<i>3/4" L-1</i>

Very Competent

Axially / Longitudinally Fractured

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>128-133</i>	Box #	Run # <i>28</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				<p style="text-align: right;"><i>Aligned with 27</i></p> <p>silica filled fractures, crossing</p>
0.5 1				<p>Mechanically separated silica infilled fracture</p>
0.5 1				<p>minor calcite</p> <p>Permeable microfracture, not infilled</p> <p>Permeable microfracture, not infilled fully</p> <p>Mechanical fracture, possible seeded by small infilled fracture (~0.5" SQ)</p>
0.5 1				<p>calcite + quartz</p> <p>sub longitudinal silica filled fracture</p> <p>1/4" thick quartz infilled fracture, <u>not</u> permeable</p>
0.5 1				<p>silica infilled fracture</p>

Not Competent

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 133-138	Box #	Run # 29
Date 11/1/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
<div style="text-align: center;">↑</div> <div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>		<p style="text-align: center;">ROTATES ↑ ABOUT AXIS</p>		<p style="text-align: center;">Aligned with 28</p> <p>← Silicate infilled joints in calcite bearing matrix</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p>← Permeable foliation fractures (not separated)</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">With calcite</p>			<p>← Calcite infilled fractures spurring from foliation fracture</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				<p>← Infilled fracture, mechanically broken</p> <p>← Permeable foliation fracture, (separated)</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>	<p style="text-align: center;">Quartz</p>			<p>← Undulating foliation fracture</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>138-143</i>	Box #	Run # <i>30</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	↑			<i>Aligned with 29</i>
0.5 1	Quartz			← Mechanical fracture on Quartz contact
0.5 1	Quartz			← Banded fracture in Quartz
0.5 1	Mineral calcite			← Mechanical fracture along infilled natural fracture through Quartz & other rock
0.5 1	Quartz			← Longitudinal fracture infilled with dark mineral
0.5 1	Quartz			← Infilled microfracture
0.5 1	Quartz			← Fracture infilled with dark mineral
0.5 1	ROTATES			← possible infilled fracture, or foliation
0.5 1	Quartz			← slick micaceous fracture on foliation, mechanically separated
0.5 1	Quartz			

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL













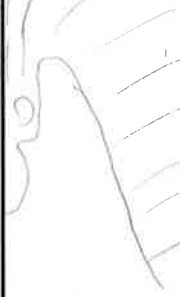
Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>143-148</i>	Box #	Run # <i>31</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>	<p style="font-size: small; margin-top: 10px;">minor calcite</p> <p style="font-size: small; margin-top: 10px;">quartz</p> <p style="font-size: small; margin-top: 10px;">quartz</p> <p style="font-size: small; margin-top: 10px;">quartz</p> <p style="font-size: small; margin-top: 10px;">quartz</p> <p style="font-size: small; margin-top: 10px;">no calcite</p> <p style="font-size: small; margin-top: 10px;">quartz</p> <p style="font-size: small; margin-top: 10px;">minor calcite</p> <p style="font-size: small; margin-top: 10px;">quartz</p>	<p style="font-size: small; margin-top: 10px;">ROTATION</p>		<p style="font-size: small; margin-top: 10px;">Aligned with 30</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: fit-content; margin-left: auto; margin-right: auto;"> <p style="margin: 0;">Note: Rock warm to touch</p> </div> <p style="margin-top: 10px;">← Foliation joint, mechanically separated,</p> <hr style="border-top: 1px dashed black;"/> <p style="margin-top: 10px;">← Foliation joint, mechanically fractured</p> <p style="margin-top: 5px;">← Mechanical fracture, grinding from cutting</p> <p style="margin-top: 10px;">← permeable fracture through quartz contains significant pyrite</p> <hr style="border-top: 1px dashed black;"/> <p style="margin-top: 10px;">← Infilled fracture</p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 148-153	Box #	Run # 32
Date 11/1/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1				Aligned with run 31 (Estimated)
0.5 1				← Foliation fracture, slippery (low μ), mica, mechanically broken.
0.5 1				← Foliation fracture, mechanical, slippery
0.5 1				← Foliation fractures mechanical
0.5 1				

Complex Rock Competent Rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID E1-P	Scribed (red line)? Y/N
Depth Interval (ft) 153 - 158	Box #	Run # 33
Date 11/1/17	Core Logger(s) Luke	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fracture	Notes
0.5 1	Quartz Pyrite			(Not) aligned with 32 Pyrite infilled thru quartz, mechanical? Foliation fracture through not-quartz mechanical? Contains clay. Mechanical fracture, flaky minerals, micas Foliation fracture, open, permeable, not separated, natural
0.5 1	no calcite Quartz			Foliation fracture, mechanical, contains clay, slippery, micaceous
0.5 1	leached zone?			Numerous fractures along and across foliation, weak rock, micas, slippery similar to weathered rock
0.5 1				Natural separated fracture, across foliation, open, slippery, mica, no infill
0.5 1	Some calcite			

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>158-163</i>	Box #	Run # <i>34</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes <i>Aligned with 33</i>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">↑</div> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>		<p>← Infilled, banded, microstructure</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>		<p>← Intra-granular fractures</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>		<p>← Foliation fracture, mechanical, micaceous</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>		<p>← Foliation fractures, mechanical linked by mechanical fractures</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5</div> <div style="margin-bottom: 10px;">1</div> </div>		

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>163-168</i>	Box #	Run # <i>35</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0.5 1				<i>Aligned with 34</i>
0.5 1	<i>quartz Calcite + Quartz</i>	<i>Blocky</i>		<p>← Mechanical foliation fracture</p> <p>← Chip from quartz, calcite structure</p> <p>← Infilled microfracture set</p>
0.5 1	<i>Calcite</i>			<p>← Mechanical foliation fractures, very slick, clayey</p>
0.5 1				<p>← Infilled fracture</p>

Slightly more competent
 Flakey Rock, Not competent

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>168-173</i>	Box #	Run # <i>36</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
	<p><i>Calcite</i></p>			<p><i>← Infilled micro fracture</i></p>
	<p><i>Pyrite</i></p>			
	<p><i>minor calcite</i></p>			
				<p><i>Mechanical foliation fractures slippery, clayey, micas</i></p>
				<p><i>← Infilled micro fracture</i></p>

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>173 - 178</i>	Box #	Run # <i>37</i>
Date <i>11/1/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
<div style="text-align: center;">↑</div> <div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>	Minor calcite ↓			Aligned with 36 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Note: Core cool to the touch </div>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				← Mechanical foliation fracture, some micaceous, moderately slippery
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				Silica infilled fracture
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>				Mechanically separated calcite filled fracture
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>	No calcite ↓			
<div style="text-align: center;">0.5</div> <div style="text-align: center;">1</div>	Minor calcite ↓			

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>178 - 183</i>	Box #	Run # <i>38</i>
Date <i>11/2/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes
0.5 1		↗		<i>Aligned with 37</i>
0.5 1	<i>minor calcite</i>	↗	↘	← <i>Mechanical foliation fracture, mica, low friction</i>
0.5 1	<i>no calcite</i> <i>minor calcite</i>	↗		
0.5 1	<i>no calcite</i>	↗	↘	↗ <i>Silica infilled fractures, crossing</i> ↘ <i>Mechanically separated silica infilled fracture parallel to foliation</i>
0.5 1	<i>minor calcite</i>	↗		

Competent Rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>183-188</i>	Box #	Run # <i>39</i>
Date <i>11/2/17</i>	Core Logger(s) <i>Luke Frash</i>	

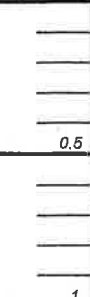
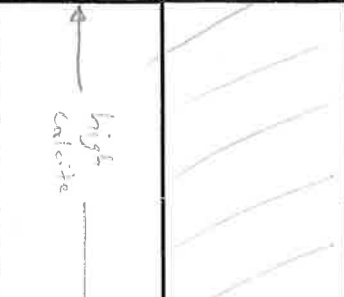
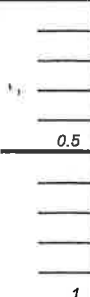
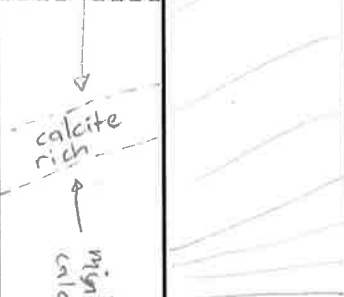

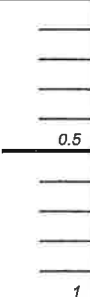
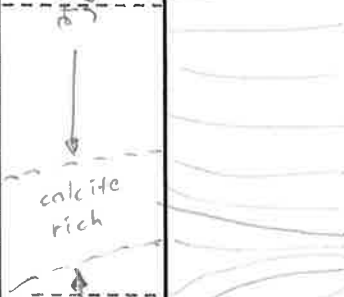
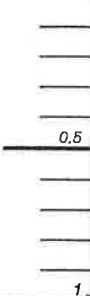
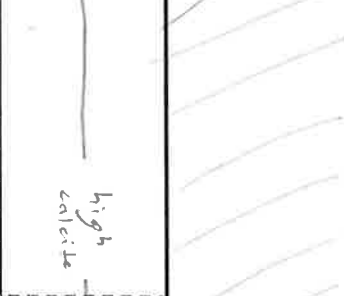
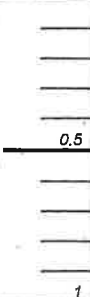
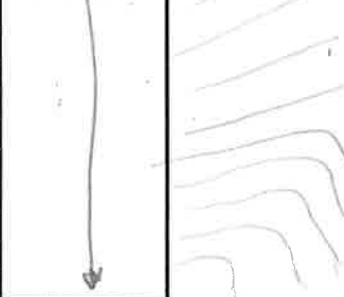

Depth	Sketch [fractures, foliation & fold directions]	Foliation	Fractures	Notes <i>possibly aligned with 38°</i>
0.5	↑ minor calcite ↓	/ / / / /		
1	↑ low calcite ↓	/ / / / /		
0.5	↑	/ / / / /	↙ ↘	↙ ↘ Mechanical foliation fractures, slippery, micaceous
1	↑	/ / / / /	↙ ↘	
0.5	↑ Minor calcite ↓	/ / / / /	↙ ↘	↙ ↘ calcite infilled fracture, bonded
1	↑	/ / / / /	↙ ↘	↙ ↘ Mechanical fracture, partially along foliation, slippery along foliation
0.5	↑	/ / / / /	↙ ↘	↙ ↘ calcite infilled microfracture, bonded
1	↑	/ / / / /	↙ ↘	↙ ↘ calcite rich foliation band, bonded
0.5	↑ high calcite ↓	/ / / / /	↙ ↘	
1	↑	/ / / / /	↙ ↘	

Competent Rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>188-193</i>	Box #	Run # <i>40</i>
Date <i>11/2/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
		<p><i>Aligned with 39</i></p>
		
		<p><i>Calcite infilled bonded fractures</i></p>
		<p><i>Mechanical foliation fracture not micaceous</i></p>
		

Competent Rock

Filename range (digital core images)

EGS SIGMA-V Collab ROCK CORE LOG, SURF 4850' LEVEL

Experiment #	Borehole ID <i>E1-P</i>	Scribed (red line)? Y/N
Depth Interval (ft) <i>193 -</i>	Box #	Run # <i>41</i>
Date <i>11/2/17</i>	Core Logger(s) <i>Luke Frash</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1		
0.5 1		
0.5 1		<p>Calcite infilled fracture</p>
0.5 1		<p>Mechanical foliation fracture, mica</p>
0.5 1		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>Final Readings on drill</p> <ul style="list-style-type: none"> • Az = 355.9° • Dip = -12.5° </div>

Competent Rock

Filename range (digital core images)