

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11/7/17 LOGGER: JAH
 RUN: #1 0-4' cont'd red scribe (Y/N): NA HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Phyllite with ~45° laminations 0-2.2' has abundant irregular qtz filled natural fractures with cross cutting mech. breaks. Laminations have some carbonate
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		
1.0		1.2' - 0.5 mm open fracture Abundant sulfides Qtz around 2' has abundant sulfides
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
2.0		Sulfide rich laminations 2-4' 45° Mech. frac. 3.5-3.7' is parallel to laminations (not as drawn)
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
3.0		45° Mech. fracture not used
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
4.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
5.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
6.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
7.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
8.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
9.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
10.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
11.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
12.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
13.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
14.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
15.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
16.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
17.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
18.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
19.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
20.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
21.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
22.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
23.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
24.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
25.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
26.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
27.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
28.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
29.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
30.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
31.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
32.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
33.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
34.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
35.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
36.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
37.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
38.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
39.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
40.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
41.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
42.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
43.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
44.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
45.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
46.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
47.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
48.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
49.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
50.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
51.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
52.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
53.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
54.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
55.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
56.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
57.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
58.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
59.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
60.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
61.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
62.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
63.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
64.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
65.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
66.0		45° Mech. fracture
0.1		
0.2		
0.3		
0.4</		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-7-17 LOGGER: JAH
 RUN: #2 4-9' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		
0.2		Foliations generally 10-40°
0.3		
0.4		
0.5		
0.6		30° - Mech. Fracture roughly aligned with foliation
0.7		
0.8		
0.9		
5 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		Foliation & sulfide rich laminations
0.6		little to no rxn w/ HCl
0.7		
0.8		
0.9		
6 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
7 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
7 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
8 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
8 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
9 1.0		



30°

Foliations generally 10-40°

Mech. Fracture roughly aligned with foliation

Foliation & sulfide rich laminations little to no rxn w/ HCl

45°

Mech. fracture roughly aligned with foliation

50°

Mech. fract. with foliations

healed qtz fill fracture < 1mm

qtz

qtz

Mech. fractures ~ ⊥ to core
 A few longitudinal healed fractures
 < 0.5 mm

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11/7/2017 LOGGER: JAH
 RUN: #3 9'-14' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES	
0.1		9.0-9.6	
0.2		Abundant large Qtz in filling	
0.3		with precipitated rotated	
0.4		phyllite clasts	
0.5			
0.6		9.6-11.0	
0.7		Foliations with Qtz, sulfides	
0.8		& only minor calcite (little	
0.9		HCl rxn), irregular foliations	
10 1.0		w/ abundant Qtz-filled fractures	
0.1		& laminations.	
0.2			
0.3			
0.4			
0.5			
0.6			
0.7			
0.8			
0.9			
11 1.0			11-12' decreasing Qtz
0.1			
0.2			
0.3			
0.4			
0.5			
0.6			
0.7			
0.8		30° - mech fracture	
0.9			
12 1.0			
0.1			
0.2			
0.3			
0.4			
0.5			
0.6			
0.7			
0.8			40° Mech. Frac.
0.9			
13 1.0			
0.1			
0.2			
0.3			
0.4			
0.5			
0.6			
0.7			
0.8			
0.9			
14 1.0			

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11/7/2017 LOGGER: JAH
 RUN: #4 14'-19' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
15 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
16 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
17 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
18 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
19 1.0		

30° ← Foliated graphite phyllite with ~ 30° foliations. Calcareous mech. fracture on foliation

increasing graphitic from above

30° — Qtz filled healed fractures with deformation

30°-90° Mech break

55° Healed <1 mm Qtz-filled fracture

50° — Mech break just above Qtz

Qtz
OP

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-7-17 LOGGER: JAH
 RUN: #5 19'-21' SCRIBED (Y/N): HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		18.6-19.5: lg. Qtz infilling.
0.2		Graphite schistite with abundant
0.3		carbonate (st. rxn w/ HCl)
0.4		
0.5		
0.6		- Graphite increases below Qtz
0.7		
0.8		25° - Mech. break on foliation
0.9		
20 1.0		
0.1		~20' - thin (<1.5mm) healed fracture
0.2		cutting across foliation
0.3		- same at 20.6'
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
21 1.0		21' - end run #5
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: *E1-I* DATE: *11-8-17* LOGGER: *JAH*
 RUN: *#6 20.5-24* cont'd red scribe (Y/N): HEAD DRILLER: *Dave*

DEPTH	CORE SKETCH	NOTES
0.1		<i>Quartz - Carbonate phyllite</i>
0.2		<i>0.5-1.0 cm carbonate foliation</i>
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		
22		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
23		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
24		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		

Quartz - Carbonate phyllite
0.5-1.0 cm carbonate foliation
Abundant carbonate foliation
& less qtz.

~85° *Rough Mech. break*

~20°-90° *Mech break on foliation & then*
breaks across core
60.5 mm healed fracture across
foliation

**Note: Photos show core from*
21'-24.5', Actual depth is
20.5'-24'.

Not used

Microb. Sample

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #7 24-29' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Micaceous carbonate phyllite
0.2		longitudinal dendritic carbonate (3mm to 4.1mm)
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
25 1.0		
0.1		Graphitic-rich layers
0.2		25.2' - 27.7' : Mostly Qtz
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
26 1.0		
0.1		Rough mech. breaks
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
27 1.0		
0.1		6 mech. breaks in Qtz
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
28 1.0		
0.1		28° Mech. break on foliation
0.2		27.2' : Micaceous carbonate-rich. Laminations 20-30°
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
29 1.0		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #8 29-34' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Qtz - carbonate-graphite phyllite laminae cross cut with carbonate stringers. - abundant graphite near lg. Qtz bodies
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
30 1.0		
0.1		Vugs lined with x-stals open 3-6 mm, discontinuous, not aligned with foliation = calcite up + 1cm thick
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
31 1.0		
0.1		40° Mesh break on foliation in mica rich layer
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
32 1.0		
0.1		38° Mesh break on foliation w/in graphite-rich layer
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
33 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
34 1.0		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #9 34-39' cont'd red scribe (Y/N): HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Carbonate graphite phyllite with mostly fine laminations
0.2		
0.3		
0.4		
0.5		35°
0.6		mech break on bedding above Qtz
0.7		
0.8		Foliation 30°-40°
0.9		
35 1.0		
0.1		Abundant graphite
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		← mech break from drilling
0.8		
0.9		
36 1.0		
0.1		(with hammer) Mech. breaks for Stanford bio sample. (36.1-36.5')
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
37 1.0		
0.1		Carbonate graphite phyllite with v. fine laminations & no drilling breaks 35.8-39'
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
38 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
39 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
3A 1.0		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: R1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #10 39'-44' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
40 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
41 1.0		25° mech. break on foliation
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
42 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
43 1.0		80° Mech break across foliation
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
44 1.0		

Carbonate graphite-phyllite with fine laminations at 24°-28° from core axis.

25° mech. break on foliation

80° Mech break across foliation

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: #1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #11 44'-49' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Carbonate graphite phyllite with thin foliations 25-30° from core axis.
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
45 1.0		
0.1		Mech. break on foliation 27° ←
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
46 1.0		
0.1		Mech. break on foliation 25°
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
47 1.0		
0.1		Mech. break on foliation 30°
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
48 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
49 1.0		

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: F1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #12 49-54' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
50 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
51 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
52 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
53 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
54 1.0		

stanford
 micro-
 bio.
 sample

49.6' -
 49.9'

Cut

~80° Mech. break irregular across bedding

v. fine carbonate stringers
 across bedding. v. irregular

very competent section

EGS COLLAB PROJECT CORE LOG, SURF 4850' LEVEL

HOLE: E1-I DATE: 11-8-2017 LOGGER: JAH
 RUN: #13 54'-59' cont'd red scribe (Y/N): Y HEAD DRILLER: Dave

DEPTH	CORE SKETCH	NOTES
0.1		Micaceous-carbonate phyllite with graphite
0.2		
0.3		
0.4		
0.5		
0.6		1mm carbonate stringer across bedding
0.7		
0.8		
0.9		
55 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
56 1.0		
0.1		
0.2		
0.3		
0.4		
0.5	280 non. break on bedding	
0.6	Graphite increases below break	
0.7		
0.8		
0.9		
57 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7	Graphite above & below Qtz	
0.8		
0.9		
58 1.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
59 1.0		

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

Experiment # <u>1</u>	Borehole ID <u>E1-I</u>	Scribed (red line)? Y/N <u>Y</u>
Depth Interval (ft) <u>59-64'</u>	Box # <u>5</u>	Run # <u>14</u>
Date <u>11-9-2017</u>	Core Logger(s) <u>JAH</u>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: right; padding-right: 5px;">0.5</div> <div style="text-align: right; padding-right: 5px;">1</div> <div style="text-align: right; padding-right: 5px;">60</div>		<p><u>59-60:</u> Micaceous carbonate-rich quartz phyllite</p> <p>← Mech. break across foliations (v. rough)</p> <p>← Qtz & CaCO₃</p>
<div style="text-align: right; padding-right: 5px;">0.5</div> <div style="text-align: right; padding-right: 5px;">1</div> <div style="text-align: right; padding-right: 5px;">61</div>		<p>60.4-61.1: Abundant Qtz with carbonate</p> <p>← Mech. break along foliations</p> <p>← Qtz Carbonate</p>
<div style="text-align: right; padding-right: 5px;">0.5</div> <div style="text-align: right; padding-right: 5px;">1</div> <div style="text-align: right; padding-right: 5px;">62</div>		<p>← Mech. break straight across with foliation.</p> <p>← Qtz graphite</p> <p>← Mica-rich layer</p> <p>40° ← Foliation</p>
<div style="text-align: right; padding-right: 5px;">0.5</div> <div style="text-align: right; padding-right: 5px;">1</div> <div style="text-align: right; padding-right: 5px;">63</div>		<p>25° ← Foliation</p> <p>← 1-2 mm sulfides</p>
<div style="text-align: right; padding-right: 5px;">0.5</div> <div style="text-align: right; padding-right: 5px;">1</div> <div style="text-align: right; padding-right: 5px;">64</div>		<p>25° ← Foliation</p>

Filename range (digital core images)

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

Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N Y
Depth Interval (ft) 64-69'	Box # 5	Run # 15
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: center;">0.5</div> <div style="text-align: center;">65</div>		<p style="text-align: center;">Phyllite</p> <p>64'-66.5': Laminations 25-30° Laminations</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">66</div>		<p>~1mm irregular carbonate stringers through laminations</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">67</div>		<p>~450 ← Mech. break roughly follows foliations</p> <p>← qtz with carbonate</p> <p>← graphite-rich around qtz</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">68</div>		<p>graphite Sulphides</p> <p>← qtz</p> <p>~80° ← Mech. break across foliations</p> <p>← Stanford micro bio sample (~67.5'-67.8')</p> <p>← saw cut for sample</p>
<div style="text-align: center;">0.5</div> <div style="text-align: center;">69</div>	<p>Qtz</p> <p>Qtz</p> <p>~90° ← Mech. break. Core spun & ~1/4 was all ground up & lost.</p>	

Filename range (digital core images)

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

Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N
Depth Interval (ft) 69-74	Box # 5	Run # 16
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1		mech. break across Qtz & then roughly along foliation
0.5 1		mech break between Qtz (contains carbonate) & soft "greasy" graphite layer
0.5 1		carbonate ≤ 0.5 to 2mm irregular stringers
0.5 1		carbonates

Filename range (digital core images)

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

Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N Y
Depth Interval (ft) 74-79'	Box # 6	Run # 17
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions] <i>Red line</i>	Notes
74		<p>Micaceous carbonate graphite phyllite</p> <p>74'-75.3': Foliations 35-40°</p>
75		<p>carbonate</p> <p>75.3'-75.8' irregular foliations</p>
76		<p>75.8'-78' foliation ~ 55°</p> <p>≤ 5 mm carbonate</p>
77		<p>70° ← Rough mech. break across foliation</p>
78		<p>78'-79' foliations ~ 35°-40°</p>
79		

Filename range (digital core images)

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

Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N Y
Depth Interval (ft) 79-84'	Box # 6	Run # 18
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions]	Notes
80	<p>Qtz</p> <p>30°</p> <p>Mech. fracture</p>	<p>Foliation plane around piece of Qtz might be slightly open.</p>
81	<p>Stanford micro-bio sample</p> <p>healed fracture</p> <p>Open mineralized fracture</p>	<p>healed fracture 0.1 - 1.0 mm aperture across foliation</p> <p>Open mineralized fracture. Closed through half the core but opens up to 3 mm. Surface encrusted with felsic minerals (including carbonate) & pyrite. Along foliation</p> <p>Mech. break</p>
82	<p>truncated healed fracture</p> <p>healed</p> <p>≤ 1mm healed fractures ~90° from open fracture below</p>	<p>open(?) mineralized parted fracture. Surface coated with v. fine felsic x-tals & pyrite. Fracture is light</p>
83	<p>v. slightly foliated breccia zone (82.5 - 82.9')</p>	<p>82.9 - 84': No apparent foliation, dark gray v. wk to no rxn w/ HCl & v. fine-grained with several mineralized elongated vugs w/ up to 3 mm openings. Several v. fine (~.2mm) healed fractures that are v. dk gray.</p>

Filename range (digital core images)

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

Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N y
Depth Interval (ft) 84'-89'	Box # 6	Run # 19
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		<p>84-84.4: multiple healed fractures across hard to recognize foliation - elongated vugs along fractures where fractures were too wide to heal.</p> <p>← mech. break on foliation</p>
85 1		<p>healed fracture</p> <p>vugs</p> <p>85.4-86.1: - abundant healed & open mineralized fractures, discontinuous, up to 1mm openings.</p>
0.5		<p>← ~60°</p> <p>Open mineralized fracture with narrow aperture & v. fine x-tals. Cuts across core</p> <p>mineralized fractures with discontinuous openings 2mm aperture.</p>
86 1		
0.5		<p>← ~90°</p> <p>Qtz & other felsics containing small vugs</p> <p>← mech. break</p>
87 1		
0.5		<p>See note</p> <p>← mech. break</p> <p>Note - laminations in this intv. have v. fine openings. Core is tight & massive below to 89', but contains healed fractures</p>
88 1		
0.5		
89 1		

Filename range (digital core images)

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

Experiment #	Borehole ID <i>E1-I</i>	Scribed (red line)? Y/N <i>Y → 95'</i>
Depth Interval (ft) <i>89-94</i>	Box # <i>7</i>	Run # <i>20</i>
Date	Core Logger(s) <i>JAH</i>	

Depth	Sketch [fractures, foliation & fold directions] <i>Red line</i>	Notes
95		Red line might be slightly off below 95'. ~2" of broken up core
96		~1.8' : sulfide rich laminations. sl. vuggy with several 4.5-1mm vugs
97		mech. break healed fractures with sl. offset foliations
98		deformed foliations
99		deformed foliations several partially healed mineralized fractures with pyrite & felsics

Filename range (digital core images)

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




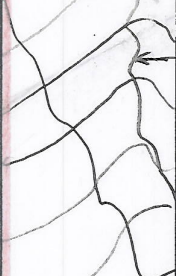
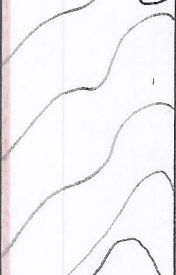
Experiment # 1	Borehole ID E1-I	Scribed (red line)? Y/N Y
Depth Interval (ft) 94-99'	Box # 7	Run # 21
Date 11-9-2017	Core Logger(s) JAH	

Depth	Sketch [fractures, foliation & fold directions] ← Red line	Notes
95 1		~94.3-94.7: Partially healed fracture zone with 2-4 mm fractures filled with qtz, carbonate & pyrite 1-2 mm isolated openings
95.4		95.4' irregular open vuggy porosity ~1 mm wide
96 1		
97 1		
98 1		
98.1-98.4		← broke with hammer ← cut for bio sample
99 1		

Filename range (digital core images)

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

Experiment #	1	Borehole ID	E1-I	Scribed (red line)? Y/N	Y
Depth Interval (ft)	99-104'	Box #	7	Run #	22
Date	11-9-2017	Core Logger(s)	JAH		

Depth	Sketch [fractures, foliation & fold directions]	Notes
99 0.5 1		Solid core, no open fractures or vugs 99'-100' wavy difficult to see laminations
100 0.5 1		~100'-102' 45°-50° laminations
101 0.5 1		
102 0.5 1		Carbonate stringers
103 0.5 1		
104		

Filename range (digital core images)

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

Experiment #	1	Borehole ID	E1-I	Scribed (red line)? Y/N	Y
Depth Interval (ft)	104-109	Box #	8	Run #	23
Date	11-9-2017	Core Logger(s)	JAH		

Depth	Sketch [fractures, foliation & fold directions]	Notes
105		Solid core, no fractures
106		healed longitudinal fractures wavy laminations
107		107-109 ~ 40° laminations
108		healed fractures
109		

Filename range (digital core images)

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

Experiment #	1	Borehole ID	E1-I	Scribed (red line)? Y/N	Y
Depth Interval (ft)	109-114	Box #	8	Run #	24
Date	11-9-2017	Core Logger(s)	JAH		

Depth	Sketch [fractures, foliation & fold directions]	Notes
110	<p>Red line on left</p>	<p>Mostly healed fracture (1-5 mm) with sparse openings ≤ 1 mm (v. sparse)</p>
111		
112		<p>40° laminations multiple healed ≤ 1 mm fractures cutting across laminations</p>
113		
114		

Filename range (digital core images)

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

Experiment #	1	Borehole ID	E1-I	Scribed (red line)? Y/N	Y
Depth Interval (ft)	114-119	Box #	8	Run #	25
Date	11-9-2017	Core Logger(s)	JAH		

Depth	Sketch [fractures, foliation & fold directions]	Notes
114		114' - laminations ~40°
115		114.5' - 116' wavy laminations
116		0.5 mm carbonate stringers
117		Mech break, half on lamination
118		Qtz

Filename range (digital core images)

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

Experiment #	1	Borehole ID	E1-I	Scribed (red line)? Y/N	Y
Depth Interval (ft)	119-124	Box #		Run #	26
Date	11-9-2017	Core Logger(s)	JAH		

Depth	Sketch [fractures, foliation & fold directions]	Notes
125		carbonate stringers
126		large open fracture with up to 1cm open aperture. Fracture walls encrusted with X-stals.
127		partially healed fractures
128		
129		

Filename range (digital core images)

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

Experiment # <u>E1</u>	Borehole ID <u>E1-I</u>	Scribed (red line)? <u>Y/N</u> <u>matched to 26</u>
Depth Interval (ft) <u>127-129 124-129</u>	Box # <u>/</u>	Run # <u>27</u>
Date <u>11/13/17</u>	Core Logger(s) <u>Josh Feldman</u>	

Depth	Sketch [fractures, foliation & fold directions]	Sketch	Sketch	Notes
0.5 1				Not filled (see image) open / no fill but looks transparent white open like amorphous
0.5 1				
0.5 1	Pencil-like but very granular?			filled, 1m - 4mm thick fill
0.5 1				see image
0.5 1				

Filename range (digital core images)

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

Experiment # <i>E1</i>	Borehole ID <i>ELI</i>	Scribed (red line)? <i>Y/N</i> <i>matched to 27</i>
Depth Interval (ft) <i>129-134</i>	Box #	Run # <i>28</i>
Date <i>11/12/17</i>	Core Logger(s) <i>JDF</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	<i>Slightly carbonaceous</i> 	<i>catching up to drillers</i>
0.5 2	<i>Phyllite</i> 	↓ <i>starting bed bedding gets very complicated, increasing as gets closer to QTZ nod</i>
0.5 3		→ <i>qtz-sil-filled fractures</i>
0.5 4	<i>QTZ nod</i> 	↓
0.5 1		<i>large break Pyrite present with qtz (though minor)</i>

Filename range (digital core images)

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

Experiment # <i>E1</i>	Borehole ID <i>E1-I</i>	Scribed (red line)? <i>Y/N</i> <i>matched to 2.8</i>
Depth Interval (ft) <i>134-139</i>	Box #	Run # <i>29</i>
Date <i>1/13/17</i>	Core Logger(s) <i>JDF</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: center;">0.5</div> <hr style="border: 1px solid black;"/> <div style="text-align: center;">1</div>	<div style="text-align: center;">fol</div> <div style="text-align: center;">fract</div> <div style="text-align: center;">no carb</div> <div style="text-align: center;">Aim carb</div>	<div style="text-align: center;">clean equipment + gloves for bio samp</div>
<div style="text-align: center;">0.5</div> <hr style="border: 1px solid black;"/> <div style="text-align: center;">1</div>	<div style="text-align: center;">phyllite</div>	
<div style="text-align: center;">0.5</div> <hr style="border: 1px solid black;"/> <div style="text-align: center;">1</div>	<div style="text-align: center;">fractures</div>	<div style="text-align: center;">fractures put in to collect samp.</div>
<div style="text-align: center;">0.5</div> <hr style="border: 1px solid black;"/> <div style="text-align: center;">1</div>		

Filename range (digital core images)

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

Experiment # <i>E1</i>	Borehole ID <i>E1-I</i>	Scribed (red line)? Y/N <i>from marked to 29</i>
Depth Interval (ft) <i>139-144</i>	Box #	Run # <i>30</i>
Date <i>11/13/17</i>	Core Logger(s) <i>JDE</i>	

Depth	Sketch [fractures, foliation & fold directions]	Sketch [fractures, foliation & fold directions]	Notes
<div style="text-align: center;">0.5</div> <hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center;">1</div>	<div style="text-align: center;">Fol</div>	<div style="text-align: center;">Fract</div>	<div style="text-align: center;">Another rock sample</div> <p style="text-align: center;"><i>sil-filled frac w/ pyrite core</i></p>
<div style="text-align: center;">0.5</div> <hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center;">2</div>	<div style="text-align: center;">← pyrite →</div>		
<div style="text-align: center;">0.5</div> <hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center;">3</div>			<p style="text-align: center;"><i>sil-filled frac w/ pyrite</i></p>
<div style="text-align: center;">0.5</div> <hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center;">4</div>			<p style="text-align: center;"><i>break</i></p>
<div style="text-align: center;">0.5</div> <hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center;">5</div>			

Filename range (digital core images)

To fit core and take images, core was photographed in two pieces. Second (lower) piece is offset w/ respect to measurement references in pictures by 1"

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

Experiment # E1	Borehole ID E2-I	Scribed (red line)? Y/N <i>matched to 30</i>
Depth Interval (ft) 144-147	Box #	Run # 31
Date 11/13/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Sketch [fractures, foliation & fold directions]	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	↑ Phyllitic			Pyrite filled fracture with bedding
0.5 1				Silicate fill - open fracture 1mm - 2mm voids
0.5 1				open frac
0.5 1				Pyrite associated with bedding at this depth. Appears folded
0.5 1				

Filename range (digital core images)

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

Experiment # <i>E1</i>	Borehole ID <i>E1-I</i>	Scribed (red line)? <input checked="" type="checkbox"/> <i>matched to 31</i>
Depth Interval (ft) <i>149-154</i>	Box #	Run # <i>32</i>
Date <i>11/13/17</i>	Core Logger(s) <i>JDR</i>	

Depth	Sketch [fractures, foliation & fold directions]	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0.5</div> <div style="margin-bottom: 5px;">1</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"><i>bl</i></div> <div style="margin-bottom: 5px;"><i>trc</i></div> </div>	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0.5</div> <div style="margin-bottom: 5px;">2</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"><i>bl</i></div> <div style="margin-bottom: 5px;"><i>trc</i></div> </div>	<p>Photo of bedding with alternating mineralogy <i>Pyrite - Calcite - host/phyllite/pyrite</i></p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0.5</div> <div style="margin-bottom: 5px;">3</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"><i>bl</i></div> <div style="margin-bottom: 5px;"><i>trc</i></div> </div>	<p>Photo of Qtz/bedding cut a crossing by fracture</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0.5</div> <div style="margin-bottom: 5px;">4</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"><i>bl</i></div> <div style="margin-bottom: 5px;"><i>trc</i></div> </div>	<p>Fracture - possibly a little open - xtls cover surface and appear to have grown into void in place</p>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0.5</div> <div style="margin-bottom: 5px;">5</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"><i>bl</i></div> <div style="margin-bottom: 5px;"><i>trc</i></div> </div>	

Filename range (digital core images)

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

Experiment # E1 Borehole ID E1-I Scribed (red line)? matched to 32
 Depth Interval (ft) 154-159 Box # _____ Run # 33
 Date 11/13/17 Core Logger(s) JDF

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		very thin - opaque milky fill
1		
0.5		
2		
0.5		
3		
0.5		Break from drilling silicification along fracture
4		
0.5		
5		

can Scott
Died

Taken for RSD

Filename range (digital core images)

bio sample taken top along break in core, bottom of piece made along preexisting fracture after hit from chisel photos in JDF cellphone (camera ran out of Scott's)

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

Experiment # E1	Borehole ID E1-I	Scribed (red line)? ON <i>matched to 33</i>
Depth Interval (ft) 159-164	Box #	Run # 34
Date 11/13/17	Core Logger(s) JDR	

Depth	Sketch [fractures, foliation & fold directions]	Sketch [fractures, foliation & fold directions]	Notes
0.5 1			very thin fracture
0.5 2	<i>phyllite</i> 		
0.5 3			
0.5 4			very minor sub-vertical fractures. Intersecting fractures present (see photo) Quartz present in foliations. Less massive in character than quartz present in last 20' of core
0.5 5			Picture of feature I don't recognize. Look like stretch mark. Associated with particular layer. Structural geologist should look

Filename range (digital core images)

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

Experiment # **E1** Borehole ID **E1-I** Scriber (red line)? **ON**
 Depth Interval (ft) **164-169** Box # **165.5 - new red line**
 Date **11/13/17/11/14/17** Core Logger(s) **JOF** Run # **35**

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5	Sketch showing a thin, wavy line representing a fracture. Labels include 'Amphibole' and 'Increasing Amphibole' with an arrow pointing to the line.	Notes: Qtz Seam. 1 ft took several hrs. Log below filled out 11/17 Very thin filled fracture. Looks like bedding but cuts across bedding.
1	Sketch showing a horizontal dashed line representing a break.	Break
0.5	Sketch showing a thin, wavy line representing a fracture. Labels include 'Qtz'.	Thin filled fracture cuts across Qtz and host rock (see photo)
2	Sketch showing a horizontal dashed line representing a break.	Break
0.5	Sketch showing a horizontal dashed line representing a break.	Break along foliation
3	Sketch showing a horizontal dashed line representing a break.	Break along foliation
0.5	Sketch showing a scalloped edge of a fracture. Labels include 'Phyllite'.	Qtz has scalloped edge
4	Sketch showing a horizontal dashed line representing a break.	Break
5		

→ red line does not follow from above - connect instead
 → Another new red line

Filename range (digital core images)

Dropped nuts down hole to sharpen bit after 1' was removed.
 ~3:30 PM - began pulling drill string to manually sharpen bit

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

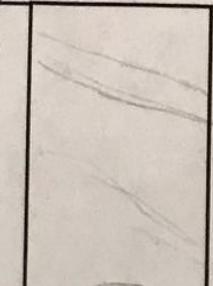
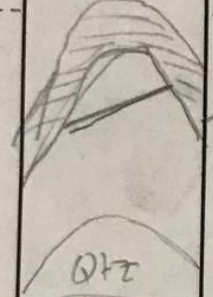
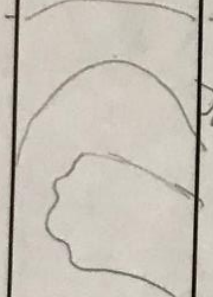
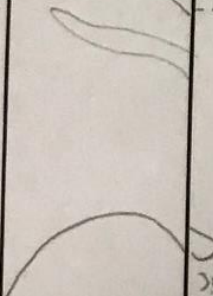
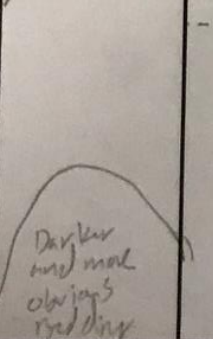
Experiment # E1	Borehole ID E1-I	Scribed (red line) <input checked="" type="checkbox"/> matched to Run 36 35
Depth Interval (ft) 169'-174'	Box #	Run # 36
Date 11/14/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	Phyllite Not graphitic like above core	Back to regular speed drilling much less/no graphite, unlike core above where graphite increased near QTZ.
0.5 2	QTZ	QTZ massive with irregular edges
0.5 3	55° 65°	bedding folded break along bedding
0.5 4	25°	Layer of thin QTZ bands with pyrite break along bedding
0.5 5	QTZ + Pyrite QTZ	

Filename range (digital core images)

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

Experiment # E1 Borehole ID E1-I Scribed (red line)? ON
 Depth Interval (ft) 174'-179' Box # Run # 37
 Date 11/14/17 Core Logger(s) JDR

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	Pyrite clay bedding 	folded, Qtz & pyrite layers
0.5 2	Interesting texture fault? Qtz 	Filled fracture. only in part of phyllite 75°
0.5 3		Break along bedding 40°
0.5 4		Break along bedding 35°
0.5 5	Darker and more clayey bedding 	This unit looks different than rock around it. Darker and bedding is similar but more distinct - see photo

Filename range (digital core images)

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

Experiment # E1	Borehole ID E1-1	Scribed (red line) 2017 <i>matched to 37</i>
Depth Interval (ft) 179'-184'	Box #	Run # 38
Date 11/14/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		Bio sample out of hole 10:52 AM on ice @ 11:41 AM Large Pyrite occurrence Break in core, Red line cannot be matched below
1		
0.5		Quartz-Quartz boundary defined by Pyrite rim Break in core from Bio Collection
2		Filled fracture Break for Bio collection
0.5		Filled fracture
3		
0.5		
4		
0.5		
5		

Core Broken red line starts over here

Core fragmented red line starts over

Filename range (digital core images)

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

Experiment # E1	Borehole ID E1-I	Scribed (red line)? Y
Depth Interval (ft) 184'-189'	Box #	Run # 39
Date 11/14/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	Phyllite	Phyllite more micaceous than previous core.
0.5 2		Foliated, but no obvious fractures Some folding and deformation
0.5 3		
0.5 4		this section the micr. suddenly get much smaller
0.5 5	graphitic ↓	minor filled fractures in this section Break } appears associated with drilling - lost bedding Break }

Filename range (digital core images)

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

Experiment # **E1** Borehole ID **E1-I** Scriber (red line)? **Matched to 39**
 Depth Interval (ft) **189'-194'** Box # Run # **40**
 Date **11/14/17** Core Logger(s) **JDF**

Depth Sketch [fractures, foliation & fold directions] Notes **Qtz significantly slowed drilling down**

New Red line

0.5		Phyllite Pyrite Q	50°	Filled fracture
1	Pyrite			
0.5				} breaks from drilling
2	↑ Qtz w/ some host rock	chips only mostly Qtz	X	
0.5	mostly missing ↓			} breaks from drilling
3	↑ Qtz with host rock in it	Q Phyllite Q Py Q		filled fracture in quartz
0.5	↓		20°	Drilling Break Break along foliation - very high mica content along break face
4	significant Pyrite in foliations			Drilling Break along foliation
0.5	Phyllite minor Pyrite no carbonates		35°	Drilling Break filled fracture
5				

Filename range (digital core images)

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

Experiment # E1	Borehole ID E1-R	Scribed (red line)? Y^M
Depth Interval (ft) 194' - 199'	Box #	Run # 41 <i>too broken</i>
Date 11/15/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Notes <i>core came up 11/14/17. final pics + logging 11/15/17</i>
0.5		
1		<p>Break</p> <p>Break along Qtz-phyllite contact</p>
0.5		<p>Break along what looks like a filled fracture</p>
2		<p>Break along bedding</p>
0.5		<p>Breaks</p>
3		<p>Folding around Qtz</p>
0.5		<p>Break</p>
4		
0.5		<p>Broken Qtz</p>
5		

Filename range (digital core images)

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

Experiment # E1	Borehole ID E1-I	Scribed (red line)? Y
Depth Interval (ft) 199'-204'	Box #	Run # 42
Date 11/15/17	Core Logger(s) JDF	

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5		Top of core has no Qtz to match bottom of 41 Breaks along foliation see photo. Looks like small pieces of Qtz cemented into larger Qtz zone. Technique? Irregular edge (breaks)
1		Break
0.5		Breaks
2		Break along foliation
0.5		Break along phyllite - Qtz contact
3		
0.5		Breaks
4		
0.5		technique w/ pyrite in it (and phyllite as well)
5		

Filename range (digital core images)

Red line instrumented

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

Experiment # E1	Borehole ID E1-I	Scribed (red line)? Y^N
Depth Interval (ft) 204-207	Box #	Whole core is internally consistent
Date 11/15/17	Core Logger(s) JDF	Run # 43

Depth	Sketch [fractures, foliation & fold directions]	Notes
0.5 1	Qtz 	Breaks from coring 45° Filled fracture
0.5 2	Phyllite calcite present miscellaneous phyllite mica boundary 	Coring Breaks
0.5 3		Core degrades a bit here - visible in core as bump
0.5 4		coring Break along fracture orientation 35° Fractures in Qtz present, all roughly parallel to this orientation Break
0.5 5	NO CORE (End) 	NO CORE (End)

Filename range (digital core images)