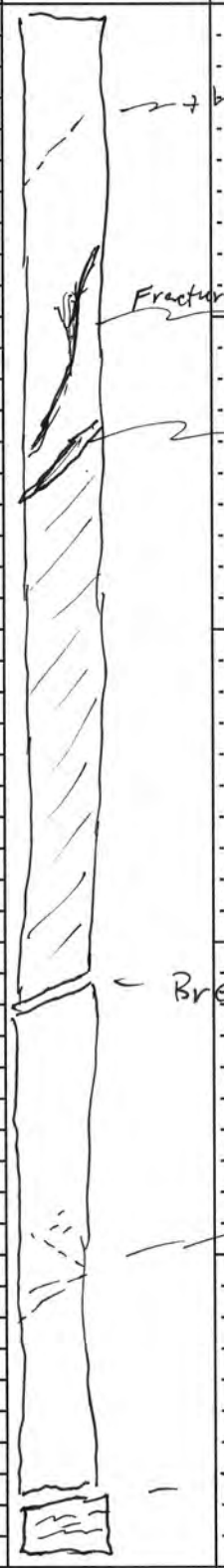
kISMET core logging Run# 1 Core ID KISMET 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
0												
											Rubble	
											Break	
												massive with little evidence of layering
												Layering subvertical Dark colored - carbonate matrix phyllite
							20				Break	
												Same as above
							80	<0.5			Long hairline fracture; no filling; appears to be parallel to subvertical layering	
							60	1			Fracture; carbonate-filled; discontinuous	
4.9												

kISMET core logging Run# 2 Core ID RISMET 002 Logged by WMF Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
4.9												
							45	<0.5				thin fracture
												lithology is dark with lower carbonate content (~ 5-10%)
							75	5				Fracture; Quartz fracture with some carbonate
												Quartz layer ~ 5mm thick
												lithology same as above.
							45					Break parallel to layering
												many small, filled fractures
												lithology same as above
							5					Break thinly layered showing tight folds.
9.9												

kISMET core logging Run# 3 Core ID KISMET 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
9.9												The entire core seems to have less Carbonate although significant amounts still present.
							45	1				Zone of many small fractures with complex breakage. Fragments of the dark matrix are brecciated and healed with quartz, carbonate, and anhydrite(?) Small amounts of sulfide present
							45				Fractures	
							45					lithology is generally dark with smaller but still significant amount of carbonate.
							60				Fract	
												mica-rich layer.
							60					
							40				Fracture	
											Fracture zone with many small fractures	
								0.5			Fracture	
											Fracture	
												more massive with less micas than other parts of core.
							15					
							45	<0.5				
											Fracture	
14.9												

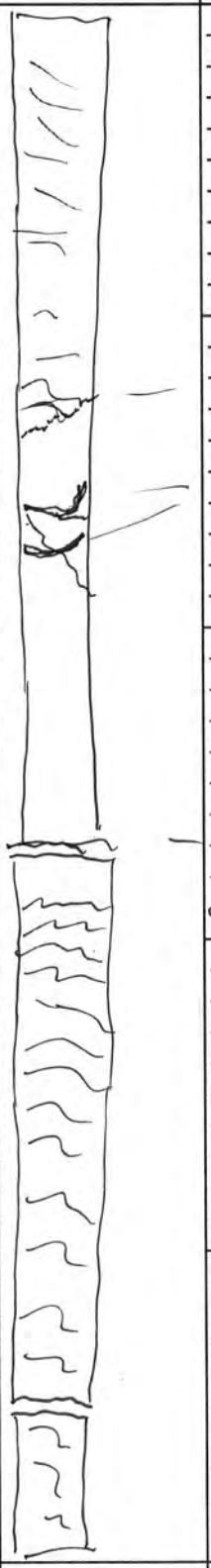
kISMET core logging Run# 4 Core ID KISMET 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
14.9												
												Alternating light/dark layers (~1 cm thick)
												Layering Subvertical
							60	0.5				Fractures filled with carbonate
							60	0.5				
								<0.5				small fractures - filled
							55	6				large fracture; filled with carbonate and quartz; abundant sulfide
												Thinly layered; tightly folded
19.9												Thinly layered; tightly folded
~~19.9~~												

kISMET core logging Run# 5 Core ID KISMET-002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
19.9												Thinly layered; tightly folded layering is subvertical
												Alternating thin light layers and thicker dark layers. Dark layers have less carbonate than light layers.
							45	1				– Fracture; carbonate-filled
							25	0.5				– Fracture; carbonate-filled
							25	0.5				– Fracture; irregular
												– Break uneven and across layering
												layering is subvertical
							40	0.5				– Fracture; carbonate;
							45	0.5				– Fracture; carbonate
24.9												

kISMET core logging Run# 6 · Core ID KISMET 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
24.9												
												Dark with frequent light laminae
							45	>0.5				Fract
							45	>0.5				Quartz and Carbonate layers parallel to other layering.
							30					Break
												Thin layers; tightly folded
												open folds
29.9												

kISMET core logging Run# 7 Core ID Kismet 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
29.9												No fractures evident in core (Breaks appear to be mechanical).
												Alternating light/dark with light areas having more mica
												Break is sharp along layering
												Sulfide abundant in tightly folded thinly laminated phyllite
												Break is sharp along layering
34.9												

kISMET core logging Run# 8 Core ID Kismet 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
34.9												
												Alternating light/dark with more mafics in light layers.
												Carbonate Fracture offset across layering
							45	1				Sulfide fracture at sharp angle to layering
							45	<0.5				Break - irregular
							45	1.5				Quartz Fracture with minor Carbonate
							50	<0.5				small fracture - Carbonate
39.9												

kISMET core logging Run# 9 Core ID KISMET 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
39.9												Alternating light/dark layers; light layers more carbonate Attitude of layering consistent throughout Dip ~ 60° - Fracture: carbonate - Break: parallel to layering Lithology As above
44.9												

kISMET core logging Run# 10 Core ID Kismet 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
44.9												Alternating light/dark layers; darker layers predominate
												Break parallel to layering
								<0.5				small hairline filled fractures
												Break parallel to layering
								<0.5				Small hairline filled fracture
												Quartz stringers in the layering; thickness is variable up to 1 cm in thickness
48.9												

kISMET core logging Run# 11 Core ID _____ Logged by _____ Date _____

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
49.9												Quartz stringers parallel to layering Alternating light/dark Fracture layering subvertical Fracture Breccia high angle parallel to layering lighter sets of rhythmic layering (rhythmicity persists in darker layers although not as obvious)
							45	0.5				
							45	0.5				
54.9												

kISMET core logging Run# 12 Core ID Kismet 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
												Generally thin layers w. varying mica content.
54.9												
												Subvertical layering
							10				Break	
							20				Break	
												Thinly layered alternating/even light/dark
												As above
59.9												

kISMET core logging Run# 13 Core ID KISMET-002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		No fractures recognized although a probable shear zone occurs at 2.3 ft from top of core.
59.9												
							10					Tightly folded thin layers
												Breccia
												Breccia; parallel to layering
												isolated pieces of carbonate in a fine-grnd matrix; probable shear zone
												Folds not as tight
												Broken zone: mechanical
64.9												

kISMET core logging Run# 14 Core ID kismet 002 Logged by WMR Date 7-8-16

64.9

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
												Alternating light/dark, thin laminae
							0					Break
							25					Break
												Break
												Carbonate-rich phyllite with bands of layered mass. alternating with less micaceous rock
											←	Fracture, small, quartz
												Tightly folded but not much carbonate

69.9

kISMET core logging Run# 15 Core ID KISMET 002 Logged by WMR Date 7-8-16

69.9

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
												No breaks in this core.
							75	<0.5				Faint layering
												Fracture
												well-developed light/dark layering; dk. light is more carbonate-rich than dark. 1.5
												dark layers ~2cm thick and light ~5mm thick.
												micaceous layer - contorted layering
												Fracture
							45	<0.5				micaceous layering
							20	<0.5				

74.9

kISMET core logging Run# 16 Core ID Kismet 002 Logged by WMK Date 7-8-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
74.9												
												micaceous layer
							60	0.5				Fractures - small, regular surfaces
							60	0.5				Fractures
							10	1.0				Break
												micaceous layer
							60	0.5				Fracture - quartz filling
												Hairline fractures - filled w/ carbonate
												Break
79.9												

kISMET core logging Run# 17 Core ID Kismet 002 Logged by WMR Date 7-8-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
79.9												
												Tightly folded, thin laminae
												Quartz lens parallel to layering with inliers of carbonate
												Break ; parallel to layering Quartz lens parallel to layering. Has micaceous carbonate inliers
												Break ; parallel to layering Quartz lens Fracture ; carbonate-filled
							40	1.5				
												Qtz. lens
												Break ; parallel to layering
												Fracture ; wide
							45	1				
84.9												

kISMET core logging Run# 18 Core ID Kismet 002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
84.9												Alternating light/dark with more Carbonate-rich layers predominating
												Fracture; irregular but generally at high angle; primarily ~~carbonate filling~~ qtz filling
							40					Break
												Very long irregular fracture; vertical Carbonate-filled
												open work/vug (~1 cm diameter) Qtz-lined
												sulfide bleb (~1 mm diameter)
												open work/vugs;
												Break
89.2												

kISMET core logging Run# 19 Core ID KISMET 002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
89.9												
												Phyllite breccia
												Breccia of phyllite with massive aphyllite(?) [redacted] filling and carbonate inliers
											carbonate	
												probable Tertiary-age mineralization
											qtz	
												Break
						90		7				Open fracture; Crystal-lined (qtz)
												Hairline fracture; no filling
								0.5				Filled fracture
												Alternating light/dark layers with dark predominating
												Brecciated zone with small (7mm diameter) sulfide filling; [redacted] Open fracture vug ~ 3mm in diameter
												Break
94.9												

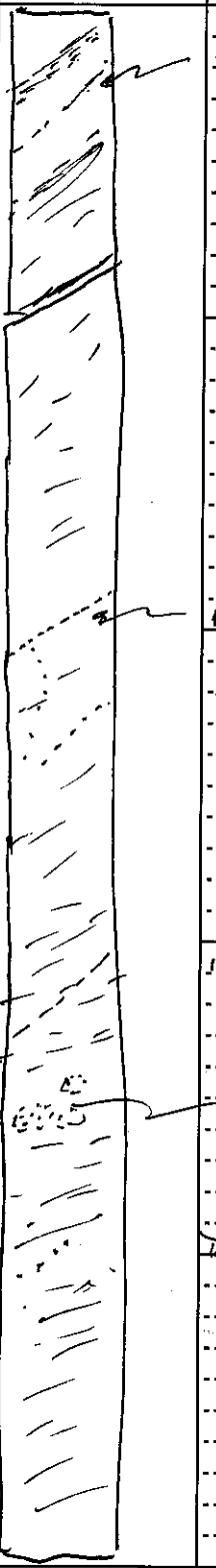
kISMET core logging Run# 20 Core ID Kismet 002 Logged by WMP Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
94.9												
												Thin laminae; tightly folded light, carbonate-rich layers. Predominate
												indistinct layering
							0					Break
												indistinct layering
							40					Break parallel to layering
							40	<0.5				very small aperture filled fracture
												Rhythmic layering; dark layers (~7mm in thickness) and light layers (~4mm in thickness)
99.9												

kISMET core logging Run# 21 Core ID kismet-002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
99.9												
												Alternating light/dark layers
												massive dark layer (~0.2 ft thick)
							0					Break - parallel to layering
							60	0.5				Fracture; carbonate-filled
												Rhythmic layers; dark layers (~1 mm thick) and light layers (~4 mm thick)
												Some sulfide in layering (<1%)
104.9												

kISMET core logging Run# 22 Core ID KISMET -002 Logged by WMK Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
104.9												micaceous layer
							40	0.5				Fracture; Carbonate filled; regular surface; Contains sulfide (~5%)
												Alternating light/dark layers with mica
1												lithology as above
2							40	0.5				Fracture filled with carbonate
												Hairline fractures at varying orientation
3							40	<0.5				irregular fracture filled with carbonate
												sulfide; irregular; ~2%
4							60	<0.5				Discontinuous fracture
109.9												

kISMET core logging Run# 23 Core ID KISMET-002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
109.9												
												Alternating light/dark layers
												Irregular hairline fractures
												Large amplitude folds with subvertical fold axes
							60	0.5				Fracture; irregular;
												Sulfide lenses (<2mm thick) parallel to layering; Large amplitude folds with subvertical fold axis
							60					Break parallel to layering
												Small amount of sulfide congruent with layering;
												Irregular hairline fracture
114.9												

kISMET core logging Run# 24 Core ID Kismet -002 Logged by WNR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Hole - 002 Note and description
114.9							80	1-2				Fracture, subvertical; Carbonate filling; Subregular fracture surface
												Qtz layer parallel to layering (1.5 cm thick)
												Thin bedded with varying mica content
												Qtz layer parallel to layering (5mm thick)
1												Break parallel to layering
												~~Fracture~~
												Thin bedded with varying mica content providing much of the contrast but also contrast due to layers with higher carbonate contents (lighter in color).
2												
3												Break parallel to layering
												Qtz layer (~2 mm thick)
4												Break parallel to layering
												Qtz layer (~3mm thick)
119.9												

kISMET core logging Run# 25 Core ID KISMET 002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
118.9												002 No fractures identified in this core
												Alternating sequence of rhythmic layering exhibited primarily by variation in mica content (also variation in carbonate content).
1												(set thickness light 7.5 mm and dark ~1 cm thick)
2												Qtz layers parallel to general layering (~5 mm thick)
3												small qtz lens
4												Break parallel to layering
												small qtz lens (~2 mm thick)
24.9												

kISMET core logging Run# 26 Core ID KISMET-002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
124.9												No fractures identified in this core.
												Alternating light/dark layers. Dark layers predominate. Rhythmic layering. 1@55 carbonate thin in lighter colored part of section.
1												Layering distinct and well-developed
							50					Break - parallel to layering
2												Qtz layers/lens generally parallel to layering.
3												
4												small qtz lens (~5mm)
												small (~5mm) sulfide lens
							50					Break - parallel to layering
29.9												

kISMET core logging Run# 27 Core ID KISMET -002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
129.9												
							90	1				Fracture
							70	4				Fracture; carbonate-filled
												Break parallel to layering
1												
												Thin fracture; generally vertical; Carbonate-filled
												Layering regular and consistent; alternating layering primarily due to variations in mica content
2												
							65	4				
												Fracture - wide, filled with carbonate, qtz, and sulfide
3												Fracture, probably intersected a vertical fracture --
												Thinly layered with more light-colored layers
4												
												massive with little layering
												Thinly layered
												Break; parallel to layering
34.9												Thinly layered

kISMET core logging Run# 28 Core ID KISMET-002 Logged by WMK Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
13.9												Thinly layered, tightly folded alternating light/dark layers
												Qtz lens generally parallel to layering
1												
							70	1				Fracture; carbonate filled
												lithology as above
2												
												Qtz lenses (5-10 mm thick)
3												lithology as above
4							10					Break across layering
												lithology as above
							10	1				Fracture - carbonate filled
39.9							30	>0.5				Fracture - small aperture

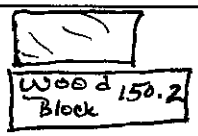
kISMET core logging Run# 29 Core ID KISMET 002 Logged by WM K Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
139.9												
												Alternating light/dark layers
							15	1				Fracture - carbonate; slightly anastomosing
							60	0.5				Fracture; carbonate-filled
												Alternating light/dark layers
												Fracture; irregular
								<<0.5				hairline fracture - carbonate-filled
							10	0.5				Break - coincident with fracture
							5	2				Fracture - carbonate-filled
						25						Break: coincident with fracture
								<<0.5				many Fracture; hairline; lithology as above
144.9												

kISMET core logging Run# 30 Core ID KISMET 002 Logged by WMK Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
												No breaks in this core
144.9												
												Alternating light/dark-colored layers; mica ~~schist~~ phyllite with abundant carbonate
							30	<0.5				small fracture; carbonate-filled
1												
							50	<0.5				small fracture
							50	<0.5				
												small sulfide lens (~2mm)
2												
												Lithology as above
							20	<0.5				
3												Qtz lens generally parallel to ~~the~~ layering
												Lithology as above
4												
												Qtz lens generally parallel to layering
149.9												

kISMET core logging Run# 31 Core ID KISMET 002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
												No identified fractures in this core.
149.8												Piece was in the shoe blocking the core barrel. Made a separate run (not listed) to recover
												Layering subvertical
1												Alternating dark/lighter color; thinly layered
												Break: parallel to layering and to qtz lens below
2												Qtz lens generally parallel to layering
												Qtz lenses (~4-5mm thick)
3												
4												
154.9												

Temp stored in UQ

kISMET core logging Run# 32 Core ID KISMET 002 Logged by WMR Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
154.9												
												Alternating thin layers; light/dark phyllite
1												
2												
3												
												Qtz layer (~1.5cm thick)
4												
							40					Break - across layering
												Qtz layer several // to layering (2.5cm thick)
159.9												

Temp in NQ

kISMET core logging Run# 33 Core ID KISMET 002 Logged by WMK Date 7-11-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	002 Note and description
159.9												
												Qtz layer 3.5 cm thick
												Alternating light/dark colors with frequent qtz layers
												mica carbonate phyllite
1												
											layering indistinct	
2												
											Layering moderately well defined	
3											tightly folded	
						10	2				Fracture; carbonate	
4												Lithology as above
						45					Breccia across layering	
												Lithology as above
164.9												

Tempinuq