kISMET core logging Run# 1 Core ID KISMET 004 Logged by WMR Date 7-5-16

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, wood, Concrete	
1												
2												
3							65	2			fracture 65°	
							65	4			65°	Filled fracture; carbonate filling; 4mm aperture; bedding subhorizontal and faint
												Estimated 10% carbonate; < 2% pyrite
4												Very faint bedding; HCl shows that it is thinly bedded.
											Hairline, calcite-filled fracture 40° dip.	
							40	3				Appearance is generally massive
5												Estimate 10% carbonate.

kISMET core logging Run# 2 Core ID K-004 Logged by WMR Date 7-5-16

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												Drilled 5'; Recovered 5'
												Bedding displayed well; bedding continues throughout.
												Discontinuous bedding at 5.4'
											~60° break	
												Carbonate content ~15%
												minor; high frequency folding.
												Contact between more massive bedding and more thinly bedded above.
											massive bedding	
												High frequency folding; thinly bedded
												Carbonate content ~30%
9.9												

kISMET core logging Run# 3 Core ID K004 Logged by WMR Date 7-5-16

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												
											Bedding well-developed	but with 5 mm thicknesses
												Carbonate ≈ 10-15%
											Sulfide ~~Pyrite~~ Pervasive to bedding	
											sulfide ~~Pyrite~~ parallel to bedding	Pyrite appears to be folded along with regular bedding.
											more contorted bedding	Carbonate ≈ 25-30%
											~65° break	Broke along carbonate-filled fracture.
14.9												

kISMET core logging Run# 4 Core ID KISMET-004 Logged by WMR Date 7-5-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
14.9												Bedding well-developed but medium thickness units (~5 mm) carbonate content variable but seems to be related to bed thickness, i.e. thin = higher carbonate ← more massive Break but continuous core less contorted
19.9												

kISMET core logging Run# 5 Core ID Kismet-004 Logged by WMR Date 7-5-16

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												Bedding at a high angle to core axis;
												Moderately thick bedding units (~3-4mm)
												25° ← Fractures filled with carbonate (2-3mm)
												← Fracture filled with quartz (2-3mm)
												← Carbonate-filled fracture (~2mm)
												Micaceous bedding with varying amounts of carbonate.
24.9												

kISMET core logging Run# 6 Core ID K-004 Logged by WM Date 7-5-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
24.3												
											Bedding	regular with a dip ~15° to core axis
											Break	parallel to bedding
											Break	parallel to bedding
											more massive layer.	Not as Carbonate-rich.
												small sulfide lens
												irregular sulfide lens ~10mm thick at widest.
								50°				irregular Carbonate-filled fracture.
											Bedding flatter	
											more thickly bedded	

kISMET core logging Run# 7 Core ID KISMET-004 Logged by WMR Date 7-5-26

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												Characterized by lack of fractures.
											indistinct layering	
											High frequency folding shown by white Carbonate-rich layers.	
							15°				small (≤ 1mm) filled fracture (Carbonate)	
											micaceous layering and Carbonates	
											contorted layers	
							70°				broke along bedding	
34.9											regular layering	

kISMET core logging Run# 8 Core ID KISMET 004 Logged by CMR Date 7-5-2016

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
34.9											bedded but more massive	
							75	1			high angle fracture	
											thinly bedded but not contorted	
				Carbonate			50°	0.5				
				Carbonate			70	0.5			fracture	
							60	0.5				
											Break parallel to bedding	
											Break parallel to bedding	
											indistinct bedding	
											diffuse sulfide.	
39.9												

kISMET core logging Run# 9 Core ID KISMET -004 Logged by WMR Date 7-5-2016

39.9

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
											well-laminated regular bedding	
											Sulfide	Sulfide - irregular lens as is bedding.
											Indistinct bedding	
											contorted bedding	
											Bedding parallel break	
											more regular bedding	
							60	6			small	filled fracture - carbonate filled
											contorted bedding	
											massive Phyllite with no fractures	

14.9

kISMET core logging Run# 10 Core ID Kismet -004 Logged by WMK Date 7-5-2016

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
44.9												
							10	0.5			irregular	filled fracture (carbonate)
											indistinct bedding	
											contorted bedding	
											folded	
												Break across bedding
											Somewhat Contorted	
												small augens (~3mm)
											folded	
											laminated	
											Break	Parallel to fracture
79.9												

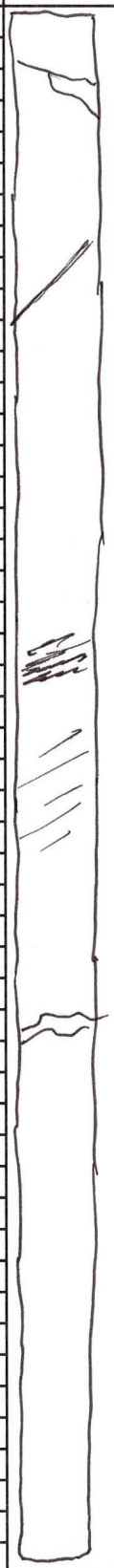
kISMET core logging Run# 11 Core ID Kismet -004 Logged by WMR Date 7-5-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
79.4												
											Quartz	Knot with Carbonate rim
												Quartz knot
											Qu	artz knot with Carbonate Center
											massive	
												Bedding parallel break
											open fold	
											Bedding	
												Bedding parallel break
											micaceous layers	
												Bedding parallel break
54.9												

kISMET core logging Run# 12 Core ID Kismet -004 Logged by WmR Date 7-6-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
54.9												Does not have thin contorted, carbonate rich bedding. Seems to be less carbonate although carbonate still present. No cross-cutting fractures.
												massive but can see layering
							15					Break at what appears to be a bedding parallel fracture that is carbonate filled (~ 1 mm thick)
												irregular sulfide with carbonate rims
												Thicker carbonate unit
							30					broken across bedding
												Thinly bedded carbonate-rich rock about 0.1 ft thick
							10					
												contorted folding ~ 0.2 ft thick.
58.9												

kISMET core logging Run# 13 Core ID K-004 Logged by WKR Date 7-6-16

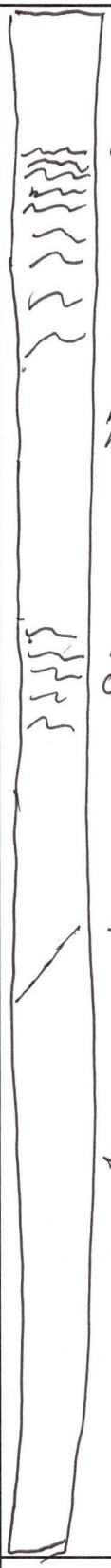
Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		No breaks in this Core.
58.9												
							60	0.5				irregular filled fracture - carbonate
												complex folds evident.
												small zone of broader folds.
64.9												

kISMET core logging Run# 14 Core ID K-004 Logged by _____ Date _____

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
64.9												
												contorted bedding
							70	0.25				small, hairline fractures
												open folds
												mechanical break probably somewhat parallel to bedding but rough surface
												sulfide knot (~1 cm wide)
												small, fine fractures
99.9												

kISMET core logging Run# 15 Core ID Kismet 004 Logged by WHR Date 7-6-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
68.9												No breaks in this core.
											contorted bedding	
											open folds	
											more massive	
											mildly contorted	
											fracture	filled with Carbonate
							40					
											thick beds	(~45m)
74.9												



kISMET core logging Run# 16 Core ID Kismet 004 Logged by WMP Date 7-16-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
74.9												
												Alternating series of massive bedding and more micaceous layers (typically 1.5-2 cm in thickness)
												more thinly bedded
							20					irregular fracture filled with carbonate
							50					Break
							45					Break
79.9												

kISMET core logging Run# 17 Core ID Kismet -004 Logged by WmR Date 7-6-16

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												
												Alternating carbonate-rich layers (~1-2mm) with darker units (5-7mm thick)
							15					Same as above
							40					sulfide exposed on break surface.
												Same as above
												thicker white unit (carbonate-rich ~10 mm) unit showing en echelon deformation
34.9												

kISMET core logging Run# 18 Core ID KISMET 004 Logged by WMR Date 7-6-16

Depth	Lithology	Magnetism	Foliation Strike	Foliation Dip	Foliation Shape	Discontinuity Strike	Discontinuity Dip	Aperture (mm)	Discontinuity Shape	Infill	Note and description
34.9											thinly bedded
											Layering angle increases sharply
							80				Break; high angle parallel to bedding
							40	1mm			filled fracture
											massive
							40	1			filled fracture
											massive Generally massive but has occasional more mica rich layers
											Medium thickness layers 1-2cm
											same as above
39.9											

kISMET core logging Run# 19 Core ID KISMET-004 Logged by WMR Date 7.6.16

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												
							45					fracture with intermittent carbonate filling
											layering indistinct	
												Break; to layering parallel
							20					Alternating carbonate-rich layers (with darker layers (1-3 cm thick).
											quartz lens/knot	Layers folded around quartz lens
							40				quartz lens	Layers folded around quartz lens; Fracture appears to be the result of drilling.
												Alternating light/dark layers
												Broader folds; may have more mica
												Alternating light/dark layers
								40				end of core Parallel to layering; Remainder of core is probably in next run
94.9												

kISMET core logging Run# 20 Core ID KISMET-004 Logged by WMR Date 7-6-16

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												Alternating light/dark layers (~3-5mm thick)
							30					~~(3 cm thick)~~
												Layering changes orientation from shallow to high angle
												Layering at a high angle ~60°
							80	<0.5				high angle fracture
												Layering sets of light/dark thicker (~2-3 cm)
							15					Alternate thin light/dark layering
99.9												

kISMET core logging Run# 21 Core ID Kismet -004 Logged by WMR Date 7-6-16

Depth	Lithology	Magnetism	Foliation: Strike	Foliation: Dip	Foliation: Shape	Discontinuity: Strike	Discontinuity: Dip	Discontinuity: Aperture (mm)	Discontinuity: Shape	Discontinuity: Infill	Graphic	Note and description
93.9												Alternating light/dark ; light layers are more micaceous
												micaceous
												Varying amounts of mica, often with contorted layering
												Change from shallow angle layering to steep
							10					Break across layering
												less mica
											micaceous	
												thicker dark layers (~2 cm)
											micaceous	
104.9												

kISMET core logging Run# 22 Core ID Kismet -004 Logged by WMR Date 7-6-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
104.9												Thin layering
												sudden transition to thicker layers (1-1.5 cm)
												Thinly layered - Break; layering parallel
							40					Thicker layers
												Transition to light/dark diffuse layering
							90	3				Fracture; vertical; often 3 cm aperture carbonate with fragment sulfide accumulation sometimes the fracture is sulfide complex,
109.9												

kISMET core logging Run# 23 Core ID Kismet -004 Logged by WMK Date 7-6-16

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												Variably folded thin laminae
							5					- Break appears to coincide with carbonate-filled fracture
												Tightly folded thin laminae
												offset fracture
												As above
114.9												

kISMET core logging Run# 24 Core ID KISMET -004 Logged by WMR Date 7-6-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
14.9												
												Carbonate-rich layering
												Well-developed tight folding
											Tight, contorted folds	
												As above with tightness of folding related to layer thickness
							75	1			– high angle fracture; irregular shape; carbonate-filled	
											tight folds.	
19.9												

kISMET core logging Run# 25 Core ID KISMET -004 Logged by WMP Date 7-6-2016

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
19.9												
							70	<0.5				Quartz lens (~1 cm width)
												Alternating light/dark layers;
												Fracture - carbonate-filled
												More tightly folded; lithology same as above
												Break
												~~Sulfide in layering (~3%)~~
												Quartz lens (< 0.5 cm width)
												Sulfide in layering (~3%)
												Break
24.9												Quartz layer (~5mm width) coincident with break surface.

kISMET core logging Run# 26 Core ID KISMET-0004 Logged by WMP Date 7-6-2016

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
124.9												Alternating light/dark layers;
												Some of the light layers have thicker carbonate laminae (~1 mm)
												Irregular fracture - carbonate-filled
							40					- Break - across layering
												Same as above
												Irregular en echelon fracture - carbonate-filled; may only be offset in carbonate layer during folding
												- Break - across layering
												Same as above
129.9												

kISMET core logging Run# 27 Core ID KISMET-004 Logged by WMR Date 7-7-16

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												With the exception of the mechanical break and the irregular fracture noted, no other fractures are observable in the core
												small sulfide occurrence
												Tightly folded alternating light and dark layers.
												Sulfide accumulation (irregular) that is ~ 5mm in diameter
												Same as above (light/dark)
												thin fracture with irregular filling that does not continue throughout core
							45					Break - Generally parallel to layering and also parallel to minor fold axis
												Same as above (light/dark)
134.9												

kISMET core logging Run#28 Core ID KISMET-004 Logged by WMK Date 7-7-16

Depth	Lithology	Magnetism	Foliation			Discontinuity					Graphic	Note and description
			Strike	Dip	Shape	Strike	Dip	Aperture (mm)	Shape	Infill		
34.9												Layering tends to be close to vertical so probably guided mechanical break
												Darker lithology with fewer light-colored layers.
												Dark layers still have carbonate although may be lowered in carbonate content overall
												Discontinuous, carbonate-filled fractures
												Along mechanical break
												Discontinuous, carbonate-filled fracture
												lithology same as above
												layering tends to be ~ vertical
												Discontinuous fractures
												lithology same as above
39.9												

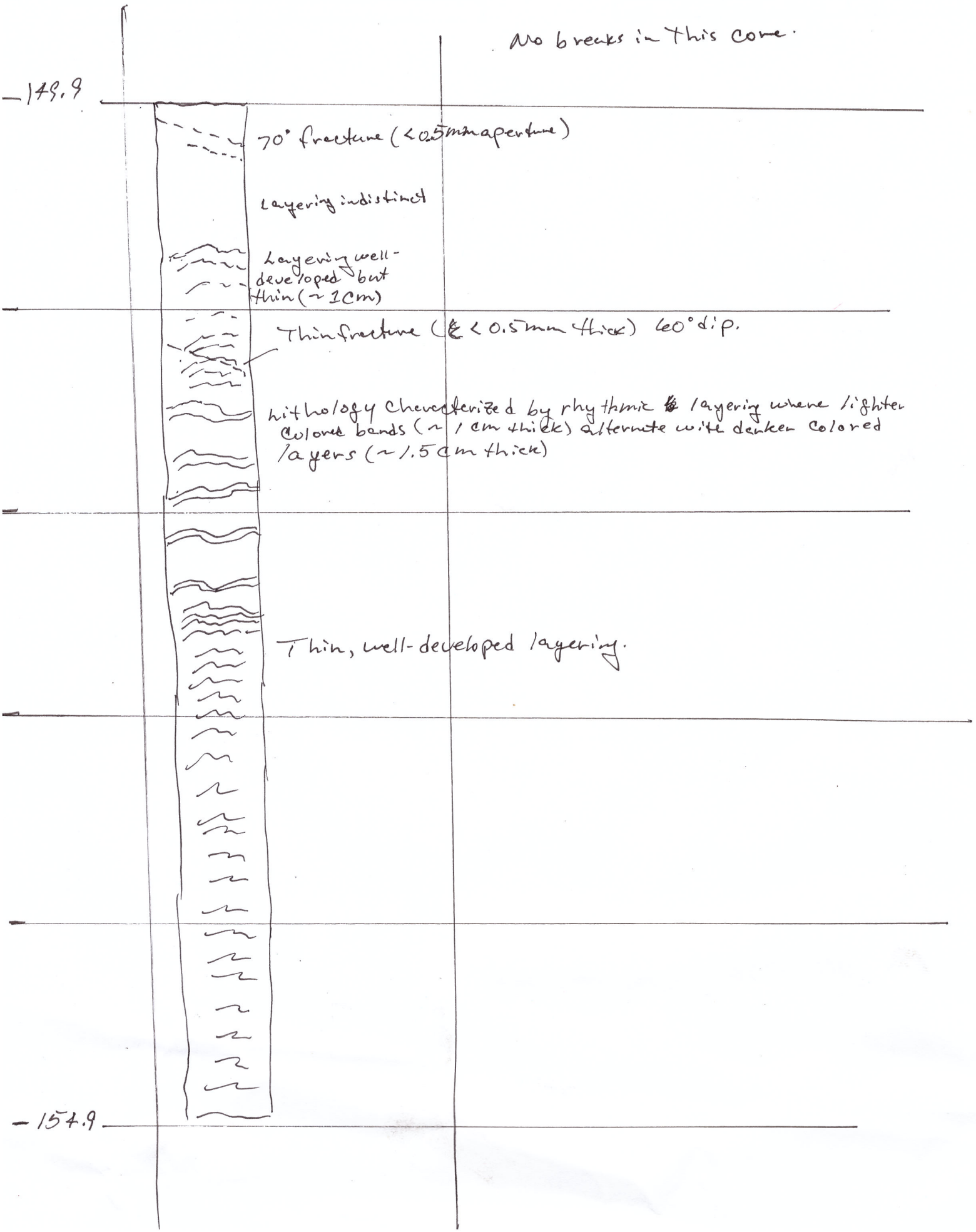
kISMET core logging Run# 29 Core ID Kismet -004 Logged by [illegible] Date 7-7-16

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												
												Indistinct layering
							40					
							50	1				Break
												Fracture - carbonate-filled
												small sulfide
							50	1				Fracture - Carbonate-filled
												Sulfide lens showing two different types of sulfide
												Fold nose
							45					Break
												small sulfide lens occur sporadically
												larger sulfide bleb (~1 cm in diameter)
44.9												

kISMET core logging Run# 30 Core ID Kismet -004 Logged by WMR Date 7-7-2016

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; tightly folded
							25	<0.05				small fracture
							0					Break
							20					Fracture - irregular with some en echelon offsets of carbonate filling
							10	<0.05				Change in lithology to a more massive character.
							25					hairline fracture
												Break
												Change back to thinly layering
												Alternating light/dark layers that are tightly folded.
												layering indistinct
49.9												

Run 31 Kismet -004 WMR 7-7-16



Run 32 Kismet -004 WMR 7-7-2016

No breaks in this core: well-developed carbonate vein with sulfide

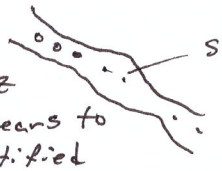
154.9

Layering generally high angle

Carbonate vein/fracture. Abundant sulfide

frequent quartz blebs (irregular) distributed in the vein.

Although irregular the quartz in the vein appears to be weakly stratified and horizontal in some areas.



micaceous layer

Layering at high angle

micaceous layer

alternating light/dark thin layers

small (<0.5mm) fracture (Dip 70°)

Indistinct layering

small (<0.5 mm) fracture (Dip 80°)

159.9

Run 33 KISMET -004 WMR 7-7-2016

No breaks in this core

159.9

Indistict layering

Two hairline, filled fractures (<<0.5mm thick). Both dipping ~45°.

well-developed layering (~3-4mm thick) with tight folds

sets of light/dark layering with thicker (~1cm) layer of carbonate filled with quartz within the vein/fracture.

low angle (~20°) fracture (<<0.5mm thick)

thinly layered

High angle (80°) fracture; irregular

layering generally vertical to sub-vertical

small fracture (<0.5mm) dipping 60°

fracture filled with carbonate (1mm thick) dipping 70°

layering indistinct

164.9

T D