

SULFIDE VISUAL CORE DESCRIPTION WORKSHEET

169-1035F-11R-01

Observer: WDG

SITE/HOLE/CORE/SECTION

BARREL SHEET SUMMARY:
SULFIDE-VEINED SEDIMENT

cm	Piece number	Graphic representation	Orientation	Drilling Disturb.	Structures	Samples
0	1			X		
10	2		↑	X		
20	3		↑	X		
30	4			X		AA TS
40	5			X		
50	6			X		
60	7			X		
70	8			X		
80	9			X		
90	10		↑	X		
100	11			X		
110	12		↑	X		12
120	13			X		
130	14			X		
140	15			X		
150	16			X		
160	17			X		17
170	18		↑	X		
180	19			X		
190	20		↑	X		

Pieces 1-3 (0-28cm). Pale gray hydrothermally altered silty mudstone ^{to 16 mm and 2.3} cut by an anastomosing network of irregular, discontinuous pyrrhotite veins oriented sub-vertical and along bedding planes. Chlorite in pyrrhotite vein. minor grains of chalcopyrite associated with pyrrhotite. (U6)

Piece 4 (28-35cm). Massive to semi-massive sulfide with altered sediment. Fine- to coarse-grained hexagonal pyrrhotite with intermixed chalcopyrite (10-15%). Vein network and sediment highly chloritized. Magnetite

Pieces 5-9 (35-64cm). Pale gray mudstone and siltston, hydrothermally altered cut by an anastomosing network of irregular pyrrhotite veins up to 2mm wide. Pyrrhotite also forms blebs. The rock has a mottled appearance due to hydrothermal alteration, 5-10% total sulfides. (U6)

Pieces 10-12 (64-91cm) massive fine to medium-grained pyrrhotite vein up to 4cm across, complex with multiple generations, highly altered sediment within on the vein's margins (chloritized). Later vein of white anhydrite within pyrrhotite vein. Enclosed sediment is altered + cut by micro-veinlets of Fe. Chalcopyrite disseminated throughout pyrrhotite (5-10%) black sphalerite up to 5%.

Pieces 13-20 (91-151cm). Pale gray (U6) highly altered (hydrothermally) mudstone cut by an anastomosing network of pyrrhotite veins. Pyrrhotite also forms blebs throughout to rock. The irregular network of veins is probably due to hydraulic fracturing. Veins are typically random except in the coarser grained sediment where veins parallel bedding planes. Veins range from <1mm to 5mm in width, and constitute up to 10% of the rock. Chalcopyrite disseminated throughout pyrrhotite and constitutes up to 5% of the sulfides. White mineral in piece 17 is probably a clay mineral.