169-1036A-3H-2, 83-86 cm

Thin section: #43 ROCK NAME: Mudstone breccia

OPAQUE MINERALOGY Pyrite	PERCENT 0.1	SIZE (mm) 0.01	MORPHOLOGY Anhedral	COMMENTS
NON-OPAQUE MINERALOGY Clay Quartz	PERCENT 90 10	SIZE (mm) 0.002 0.01	MORPHOLOGY Flakes	COMMENTS

COMMENTS: Hydraulic breccia. Angular clasts of mudstone, less than one centimeter in size, with jig-saw cracks in a coarser-grained clay matrix.

169-858G-17W-2, 58-63 cm

Thin section: #31

ROCK NAME: Anhydrite in CORK chimney

NON-OPAQUE MINERALOGY Percentage of section: 70	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
Anhydrite	70	0.05-10.0	Euhedral lath-shaped and fibrous crystals.	
VOID SPACE	PERCENT 30	SIZE (mm)	MORPHOLOGY	COMMENTS Open space between anhydrite crystals.

COMMENTS: Interlocking open network of anhydrite crystals.

169-858G-18W-1, 123-129 cm Thin section: # 33 (Polished slab) ROCK NAME: Sulfide chimney in CORK

OPAQUE MINERALOGY Percentage of section: 30	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
Pyrrhotite	60	0.02-0.1	Subhedral lath-shaped; or anhedral grains.	Cut hexagonal blades; Fine-grained aggregates with dark inclusions in cores.
Sphalerite	40	0.01-0.02	Rounded anhedral and subhedral with partly hexagonal outline.	Possible replacement after wurtzite.
Pyrite	Trace	~ 0.005	A few inclusions in pyrrhotite.	
NON-OPAQUE MINERALOGY Percentage of section: 50 Hose material and a few crystals of anhydrite	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
VOID SPACE	PERCENT 20	SIZE (mm)	MORPHOLOGY Rounded holes in hose.	COMMENTS

COMMENTS: Pyrrhotite and sphalerite occur within CORK hose material. Two different morphologies of pyrrhotite; one as fine-grained aggregates and the other as coarser-grained hexagonal crystals.

169-858G-18W-1, 61-123 cm Thin section: # 32 (Polished slab) ROCK NAME: Sulfide chimney in CORK

OPAQUE MINERALOGY Percentage of section: 10-15	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
Pyrrhotite	79	0.02-0.08	Subhedral lath-shaped to hexagonal and anhedral fine-grained aggregates.	
Sphalerite	1	0.005-0.01	Anhedral, rounded.	
Pyrite	20	0.01-0.04	Subhedral to euhedral cubes and pyritohedrons.	Partly replaces pyrrhotite.
NON-OPAQUE MINERALOGY Percentage of section: 80	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
Anhydrite	30	0.05-1.0	Euhedral lath-shaped crystals.	
Hose (ex CORK material)	50	-	•	
VOID SPACE	PERCENT 5-10	SIZE (mm)	MORPHOLOGY Rounded holes in hose.	COMMENTS

COMMENTS: Pyrrhotite, pyrite and sphalerite in hose material. Two different morphologies of pyrrhotite; one as fine-grained aggregates and the other more common, as coarser-grained hexagonal crystals. Pyrite is partly replacing the pyrrhotite.

169-858G-19W-1, 0-9 cm

Thin section: # 34

ROCK NAME: CORK Chimney sample

OPAQUE MINERALOGY	PERCENT	SIZE (mm)	MORPHOLOGY	COMMENTS
Percentage of section: 10				
Pyrite		<0.001-0.1	Anhedral, spheroidal grains, some framboidal, some collomorphic. Some subhedral to euhedral grains.	
Pyrrhotite		0.01-0.1	Few euhedral laths and hexagonal grains, few anhedral grains.	One grain with spongy texture, possible replacement artifact?
Chalcopyrite		0.01-0.04	Anhedral.	Partly rounded grains.
Sphalerite		0.002-0.05	Anhedral.	Partly rounded grains.
Galena		0.01-0.02	Anhedral grains.	Five grains observed.
Brown phase, associated with galena		0.005-0.01	Isotropic, anhedral.	

COMMENTS: Difficult to estimate percentages as many phases plucked out during thin sectioning.