Abminco Exploration

DRILL LOG

Hole N° G40 | Page N° 1

Feature: Bedding, Foliation, Fragment size & shape, Shearing, Fault, F, Vein, c carbonate, q quartz

Mineralization: 307021

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	0	Not cored							
	7.7	7.7 - 63.5 Interbedded mudstones, sandstones and shales Thinly laminated to massive weathered and partly leached sequence. Sandstones generally massive, greenish-grey and contains minor carbonate (probably dolomite or ankerite). Mudstones are pale grey to buff often showing slump and tectonic brecciation. Carbonate veining, occasionally with quartz present, is common throughout. 32.9-34.8 is very graphite rich and broken Core bedding angles variable at 12m - 30° 20m - 0°, 53m - 20°. Core overall fractured, weathered.							38.8 - 39.10 and 39.6 - 39.8 Coarse grained pyrite-sphalerite-galena vein with introduced buff coloured carbonate
	10								
	20								
	30								
	40								
	50								

5 cm

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein, ∅ c carbonate q quartz

Mineralization: 307022 — Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
	60	Carbonate veins particularly abundant around 58-61 metres.			
		63.50 Pyrite lode. Coarse-gr. pyrite 80%, with minor galena sphalerite in veinlets 0.5-2 cms wide.			
	64.9	Minor carbonate veins & rare quartz veins. Some internal slivers of shale and mudstone Faint foliation 30-45 degrees to C.A.			
		64.9-122.0 Interbedded mudstones, sandstones, shales and greywackes.			
	70	Sandstones are fine grained and massive often speckled white from weathered mudstone fragments. Fragments tend to be relatively unrounded and elongate. Quartz grains in sandstones are angular. Sandstones have some kaolin content.			Sphalerite veins 72.5 and 73.45 with minor galena and pyrite.
		72.0-74.0 is crossed by abundant quartz carbonate veins and two sphalerite veins			
	80	Soft sediment slumping is apparent in the mudstone sections. Post consolidation spearing generally $<30^{o}$ to C.A. also evident.			
		Core bedding angles generally low $10\text{-}20^{o}$ Shear zones common in shaley sections where minor graphite is present. Talc present on some shear planes.			
	90				
	100				

5 cm

Abminco Exploration

DRILL LOG

Hole N° G40 Page N° 3

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization: Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

307023

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
	110				
	120				
		122.0			
		122.0-141.9 Black shales, mudstones and sandstones The bulk of this section is both slumped and sheared. Black shales pre-dominate at start of section, bedding often chaotic, carbonate veining common throughout. Bedding where preserved is 10-20° to C.A. Shearing developed locally often at low angles to core axis usually sub-parallel to bedding.			Trace of pyrite vein as stringers developed occasionally Trace sphalerite at 135.5
	130				
	140				
		141.9			
		141.9-213.7 As above but less black shale. Core often broken, e.g. 166, 172, 180, (possibly fault) 185, 188, 200-208.			
	150				

5 cm

023

Abminco Exploration

DRILL LOG

Hole N° G40 Page N° 4

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization: Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

307024

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
	160				
	170				
	180				
	190				
	200				

5 cm

024

Abminco Exploration

DRILL LOG

Hole N° G40 Page N° 5

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization: Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

307025

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
	210				Network of veinlets of pyrite developed at 210.5-213.7
		213.7			
	212	Pyrite lode. Pyrite content covered ~20% locally up to 60%. Pyrrhotite is not present visually although some sections give slight magnetic response. Host rock appears to be a silicified shale/mudstone. Vein 3cm wide of arsenopyrite at 213.8. Vein roughly foliated 30-35 degrees to C.A.			
		215.2-220.9			
		Sandstones, shales mudstones and volcanic material.			Trace disseminated pyrite developed in shaley sections.
	220.9	Chaotic sequence of above material probably related to unit below. Sequence is slumped & sheared, containing abundant carbonate veins.			
		Fine gr. intermediate (or basic) lava. Greenish colouration throughout. Pinkish carbonate developed to ~5%. Visual estimate of composition: Chlorite 50% Feldspar 30%, amphibole(?) 15%, carbonate 5%.			Trace disseminated pyrite developed locally TS 88932 222.80
	222.9	Grey mudstones & siltstone. Massive rocks with occasional dark clots of 1-2mm diameter. This section has a positive dolomite test est. 1-5%			Trace disseminated pyrite also as stringers.
	224.5				
		224.55-229.0 as for 220.9-222.9 but with crude foliation developed around 45° to C.A.			
		229.0			
	230	229.0-233.10 Transition zone from above to next section. (i.e. a mixture of laval and sedimentary material.)			
		233.10			
		233.10-254.0			
		Grey mudstones, sandstones siltstones and shales			
		A massive unit with little bedding developed. Section from 247-253 very badly broken.			
	240	Vein carbonate (calcite) developed locally.			
					Pyrite veins developed locally eg at 245m.
		Possible fault zone 247.6-249			
	250				

5 cm

Abminco Exploration

DRILL LOG

Hole N° G40 Page N° 6

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (C carbonate, Q quartz)

Mineralization: 307026 — Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		254.0			
	260	254.0-270.0 Interbedded siltstone and black shales with minor sandstone. Generally a well bedded sequence often thinly laminated (eg 1-2mm). Bedding often disrupted by soft sediment slumping. A faint foliation (cleavage) is developed parallel to bedding which averages 45° to C.A. Rhythmic banding and graded beds show top of sequence up hole.			Traces of pyrite usually as thin veinlets occasionally as small disseminated near veinlets.
	270	270.0-275.5 Black shales, mudstones and siltstones. The bulk of this section is slumped and disrupted (ie. soft sediment deformation) and sheared. Cleavage generally parallel to bedding. Bedding where undistorted is ~60° to CA. Occasional carbonate blebs.			Veinlets of pyrite 1-5mm wide.
		275.5			
	280	275.5-281.9 Dolomite and dolomitic mudstone Fine brown-grey massive dolomite with interbedded dolomitic mudstones. Network of fine grey-black veinlets - tentatively identified as graphite. TS. 88933 from 278.8m Bedding 45° to CA.			Trace pyrite and sphalerite in veinlets.
		281.9			
	290	281.9-292.0 Interbedded siltstones, mudstones and quartzite. A mid-grey massive sequence with only minor bedding visible. Occasional quartz and/or carbonate veinlets with traces of pyrite. Quartzite sections tend to be fractured.			Minor pyrite-veinlets.
		292.0			
	300	292.0-310.05 Massive quartzite A pale grey saccharoidal quartzite often containing minor disseminated and vein carbonate.			292.0-299.0 contains disseminated and vein pyrite locally up to 30% usually ~5%. Pyrite is often framboidal.

5 cm

026

Abminco Exploration

DRILL LOG

Hole N° G40

Feature: Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz), Qz

Mineralization: Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

307027

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		Traces of muscovite (sericite?) visible locally but rock is generally not micaceous			
		Some internal siltstone e.g. 299-301			Small veinlets of galena, carbonate also present 307-310.
	310.5	END OF HOLE			
		See G40A log.			

5 cm