OS -11-088

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	38.15	38.15		--	Overburden.							
						--	--	---	---	--	--	0
38.15	61.87	23.72	SLT	FG	Maroon, grey/green, and medium grey, bedded siltstone. Maroon siltstone dominates near the top of the interval and green/grey siltstone dominates lower in the interval. Maroon siltstone dominated sections contain sub- bedding parallel, light green reduction bands. Rusty to pumpkin orange iron oxides occur on and surrounding fractures. Oxidation intensity decreases down hole. Mm- scale dolomite veins occur throughout the interval.							
						MD	GN	BD	OXI	1I	--	0
						MD	RD					
61.87	76.95	15.08	LST	FG	Medium grey lime mudstone with dark grey siltstone interbeds. The % limestone ranges from ~85% to ~20%. Lime mudstone and siltstone are millimetrically to centimetrically bedded. Bedding in limestone dominated intervals is typically planar, while in siltstone dominated intervals bedding can be lensoidal, or can pinch and swell. The % limestone to siltstone varies on a dm- to m-scale. Minor arsenic oxide occurs on fracture surfaces throughout the interval. Red to orange realgar forms in veinlets and on fractures surfaces below ~67m. Calcite veinlets (mm to cm scale) occur throughout the interval at a density of ~20-40. Some cm- scale calcite veinlets are vuggy.							
						MD	GY	BD	ASO	1I	Re	0.1
											Py	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
76.95	88.50	11.55	LST	FG	Medium to dark grey, bedded lime mudstone and siltstone containing ~ dm- to m- thick intervals with disseminated realgar and realgar in veinlets. The % limestone rainges from 75% to <30% realgar (mm- to cm- scale bedding). Realgar mineralization occurs in cm- scale clay-rich shear bands, veins/veinlets, and can be disseminated throughout host rock. The most intense realgar mineralization occurs between 78.60 and 83m. In this interval, disseminated realgar forms with specific layers (stratabound). Host rock is medium to dark grey, and lighter layers generally have a subdued reaction with HCl (= decarbonitization). Beds containing disseminated realgar can be offset/disconnected by mm- scale shear bands, and can be crosscut by realgar bearing veinlets (at least 2 realgar generations). Bedding can be millimetrically folded. Arsenic oxide and mm-scale calcite veinelts occur throughout the interval.							
						MD	GY	BD	ASO	2I	Re	1.5
								SN	DCA	2I	Py	0.2
88.50	122.93	34.43	LST	FG	Medium grey, mm- to cm- bedded lime mudstone and siltstone with ~15% dm- scale, more sandy sections (cm- scale sandy layers within dm- scale, relatively sandy intervals). % limestone ranges from 80-30%, and varies on a dm- to m- scale. Mm- to cm- scale valcite veinelts occur throughout the interval. Dm- scale, vuggy calcite veins (+/- Re) occur at 89.60 and 89.31. These veins contain brecciated host rock fragments, stylolites, and can be crosscut by dark grey crackle breccia. Realgar and arsenic oxide form in veinlets and on fracture surfaces to 90.78m.							
						MD	GY	BD	ASO	1I	Re	0.02
											Py	0.1
122.93	145.07	22.14	LST	FG	Medium grey, mm- to cm- bedded lime mudstone containing <10% dm- scale rudstone/floatstone intervals. % lime mudstone varies from ~80% to ~20%. Rud/floatstones contain cm-scale, tabular to equant clasts in a dark grey, calcareous matrix. The top .5 m of the itnerval are brecciated and strained. Realgar forms in several mm- thick veinlets, and fine grained, disseminated realgar is visible in some layers. Trace realgar occurs on fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	BD	---	--	Re	0.2
								RD			Om	0.01
								FL				
145.07	152.40	7.33	LST	FG	Interval consists of medium grey, bedded lime mudstone and medium to dark grey, sooty, decarbonitized lime mudstone contaiing realgar mineralization. Realgar mineralization occurs in massive, cm- scale veinlets, withing mm- scale veinlets (bedding parallel and at an angle to bedding), as irregularly shaped blebs in decarbonitizaed limestone, and very fine grained realgar disseminated within the host rock. Arsenic oxide occurs on fracture surfaces and disseminated within host rock, particularly in decarbonitized limestone intervals. Mm- scale, dark grey, anastamosing seams can contain pyrite and realgar. The most intensely decarbonitized zone contains mm- scale shear bands and a dark grey crackle breccia that offsets bedding.							
						MD	GY	BD	BLE	3I	Re	0.2
						DK	GY		ASO	2I	Om	0.01
152.40	166.50	14.10	DST	FG	~60% dolorudstone/floatstone containing ~cm-scale dolostone clasts in a dark grey matrix. The % matrix ranges from ~10-~60%. Cm- to m- thick intervals of floatstone/rudstone are separated by dm-scale intervals of bedded dolomudstone and siltstone. Mild to intense, dark grey crackle breccia occurs in this unit, with the most intense cracle breccia in the upper m of the interval.							
						MD	GY	FL	---	--	Re	0.2
								RD			Py	0.1
								CR				
								BD				
166.50	183.90	17.40	DST	FG	Medium grey, bedded dolostone containing ~15-20% dark grey, muddy layers. Muddy layers are mm- scale, and can be planar, stylolitic or folded. Dolomite veinlets occur throughout the interval, and some dolomite veinlets exploit muddy bedding surfaces. Realgar (+/- calcite) occurs in mm- scale veinlets throughout the interval, and are typically oriented at ~70 degrees to the core axis. The most intense realgar mineralization occurs between 176.50 and 177m. Unit is fractured to rubbly between 177.30 and 179m.							
						MD	GY	BD	ASO	1I	Re	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								FR				
183.90	202.08	18.18	DST	FG	Medium grey, bedded dolostone containing ~15-20% dark grey muddy layers. Muddy layers are typically folded or dismembered, and dolomite veinlets exploit bedding surfaces. ~25% of the interval is moderately mosaic brecciated, with white dolomite infill. Dark grey crackle breccia typically overprints white dolomite infill. Realgar (+/- calcite) veinlets form between 194.89 and 202.08m.							
						MD	GY	BD	---	--	Re	0.2
								CR				
								BX				
202.08	213.80	11.72	DST	FG	Medium to dark grey, bedded, very fine grained dolostone. A section of rudstone/floatstone occurs between 202.08m abd 206m. Rudstone/floatstone contains mm to cm scale, dark to medium grey, angular clasts (carbonate and siltstone?). Bedding/laminae are typically visible in dark grey clasts. Pyrite blebs and stringers (mm- to cm- scale) occur between 202.08 and 208m. Realgar forms in mm- scale veinelts oriented at ~70 degrees to the core axis. Dark grey crackle breccia forms between 208.75 and 211m.							
						MD	GY	BD	---	--	Re	0.01
						DK	GY					
213.80	224.95	11.15	DST	FG	Medium grey, bedded dolomudstone (+/- some quartz?). Bedding is definted by slight colour variations. Mm- scale, dark grey, bedding parallel stylolite seams are visible in places. Realgar forms in veinlets oriented at ~60 degrees to the core axis. Mild intensity crackle breccia occurs throughout.							
						MD	GY	BD	---	--	Py	0.5
								CR			Om	0.01
											Re	0.2
224.95	229.75	4.80	DST	FG	Medium grey dolostone that is moderately crackle brecciated (white dolomite infill) throughout the interval. White dolomite infill is vuggy, with mm-scale vugs giving interval a porous appearance. Dark grey crackle breccia overprints white dolomite infill. Realgar forms in veinlets throughout the interval.							
						MD	GY	CR	---	--	Re	0.2
								BX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
229.75	253.65	23.90	DMT	FG	Polymictic floatstone containing mm- to dm- scale carbonate, siltstone and sandstone clasts in a variably calcareous, dark grey to dark green matrix. Floatstone contains ~40% clasts. Clasts can be lime mudstone, floatstone, or dolofloatstone, and can contain internal bedding. ~.4 cm diamter cortoids are visible in some limestone clasts. Siltstone clasts range from greenish to dark grey, are irregularly shaped, and show evidence of interval soft sediment deformation. Some clasts are folded, and bedding parallel fractures are visible within clasts.							
						DK	GY	FL	---	--	Py	0.5
253.65	273.40	19.75	SLT	FG	Dark grey, bedded to laminated siltstone containing mm- to cm- scale layers. Interval contains <5% floatstone. Pyrite can be disseminated within pyrite-rich layers and forms cm- scale nodules.							
						DK	GN	FL				
						DK	GY	BD	---	--	Py	0.5