Selwyn Chihong Mining Ltd.
#2701-1055 West Georgia
Vancouver, British Columbia
Canada V6E 0B6
604-620-6188

Selwyn Project

Diamond Drill Log

Comprehensive Report for Hole:

DNE-075

Hole No.:	DNE-075	***Depth:***	219.00 m	***Horizontal Length:***	0.00 m	***Project:***	1710

Location Data:

Property:	Selwyn Project	***Claim Name:***	NOD 39
Mining District:	Selwyn Basin	***Grant Number:***	YB49403
Province/Territory:	Yukon		

UTM Co-Ordinates & Altitude of Drill Hole Collar:

UTM Easting:	478844.10 m	***True Azimuth:***	213.0 º	***UTM Datum:***	NAD 83
UTM Northing:	6933204.82 m	***Hole Angle:***	-81.5 º	***UTM Grid Zone:***	9
Elevation (m):	1171.99 m	***NTS Name:***	No Title	***NTS Number:***	105I11

Grid Co-Ordinates of Drill Hole Collar:

Grid Easting (m):	0.00 m	***Grid Name:***	HP06
Grid Northing (m):	0.00 m	***Grid Type:***	100m
Grid Azimuth:	273.0 º		

Dimond Drilling Contract:

Drilled By:	CYR-01	***Date Drilling Start:***	02-Apr-14	***Date Finish:***	05-Apr-14

Diamond Drill Core:

Logged By:	C.MacKay-Stotesbury	***Date Logging Start:***	03-Apr-14	***Date Finish:***	08-Apr-14

Legend for Core Logging Codes: PAX

Core Size:	NQ3	***Cemented:***	No
Casing Depth:	22.00 m	***Casing Pulled:***	Yes
Water Depth:	0.00 m	***Overburden Depth:***	22.00 m

Level:	***Section:***	***Drift:***

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Survey Data for Hole

DNE-075

Hole Comments:

Thu, Apr 03 --- DS: Issue plugging water at DNE-073. Moved drill to DNE-838. NS: 22m casing, reached ACTM at 32.8m, currently at 71m depth.

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Fri, Apr 04 --- DS: reaming required during the day, no major issues. NS: reached 140m in depth.

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Sat, Apr 05 --- DS: no major issues, hit the second ACTM. NS: continued through ACTM into CCMS. Shut hole down in the morning.

Depth	*Dip*	*Azimuth*
0.00	-81.5	213.0
35.00	-81.5	213.6
56.00	-81.6	213.7
101.00	-81.3	215.9
155.00	-82.0	212.3
204.00	-82.0	212.2
217.00	-82.0	213.4

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Hole Number:
DNE-075

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
0.00	**24.80**	**OVBR**									
Loose sedimentary											
24.80	**31.80**	**USMS**	E6613351	26.00	29.00	3.00	0.01	0.01	1.25	1.25	1.45
USMS – Upper Siliceous Mudstone			E6613352	29.00	30.90	1.90	0.02	0.27	1.25	5.30	0.06
			E6613353	30.90	31.80	0.90	0.01	0.00	1.25	1.25	2.33
Consists of interlaminated dark grey to black mudstone and light to medium grey chert. Regionally, a 1m thick graptolite zone occurs 15m below the top of the upper unit, this is usable as a horizon. The USMS is divided into 3 units. The Lower Unit contains abundant limestone concretions and Galena and sphalerite micro-concretions occur locally near the base of this unit. « gra , lm chrt -20.00% », « cg xtl sph crns ca 5.00-20.00cm », « bed chrt 10.00-15.00% »,											
Heavily faulted, high % of lost core. Remaining fragments appear to be limestone, likely concretions. Assume that lost core is highly graphitic, low competence rock, most likely due to shearing/faulting.											
« 25.80- 30.90 FLT: low competence material has all been washed away. Remaining fragments are calcareous, abundantly calcite-veined medium-grey limestone. Interpreted as concretions. »											
31.80	**74.00**	**ACTM**	E6613354	31.80	32.30	0.50	0.01	0.31	1.25	5.90	0.03
ACTM – Active Member			E6613355	32.30	32.80	0.50	0.01	0.01	1.25	1.25	1.42
			E6613356	32.80	33.80	1.00	0.02	0.05	1.25	1.25	0.35
The ACTM consists of a repetitive, possibly rhythmic, sequence of intercalated carbonaceous mudstone, cherty mudstone, chert and limestone and locally contains economically significant Zn and Pb sulphides (see bold marked facies), mainly in its sections with well developed lamination. Because of its heterogeneity, the member is distinctive and easily identified.			E6613357	33.80	35.00	1.20	0.10	0.29	1.25	5.00	0.33
			E6613358	35.00	35.50	0.50	1.33	0.48	3.10	8.00	2.78
			E6613359	35.50	36.10	0.60	0.01	0.02	1.25	1.25	0.39
			E6613360	36.10	36.30	0.20	0.03	0.02	1.25	1.25	1.72
			E6613361	36.10	36.30	0.20	0.03	0.02	1.25	1.25	1.13
			E6613362	36.30	37.20	0.90	0.11	0.67	1.25	14.00	0.16
==========			E6613363	37.20	38.00	0.80	0.11	0.88	1.25	17.30	0.12
The ACTM has 8 different facies:			E6613364	38.00	39.30	1.30	0.02	0.22	1.25	6.70	0.10
==========			E6613365	39.30	39.90	0.60	0.08	0.58	2.90	26.30	0.14
			E6613366	39.90	40.30	0.40	0.40	0.07	1.25	3.60	5.48
- GREY CHERT FACIES: Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.			E6613367	40.30	41.00	0.70	0.02	0.00	1.25	1.25	4.40
			E6613368	41.00	41.60	0.60	0.59	0.03	1.25	1.25	18.32

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
			E6613369	41.60	42.40	0.80	0.02	0.10	1.25	4.10	0.24
		- WHITISH GREY ZN-PB MUDSTONE FACIES: Is a laminated cherty rock containing up	E6613370	42.40	42.40	0.00	0.01	0.00	1.25	1.25	5.55
		to 70% sulphides. Mineralization: quartz, sphalerite and galena are the major	E6613371	42.40	43.40	1.00	0.11	0.24	1.25	11.40	0.45
		minerals with only minor amounts of pyrite and locally calcite. Sedimentary	E6613372	43.40	44.40	1.00	0.06	0.33	1.25	15.90	0.18
		diagenetic structures are common and well displayed in the facies, such as:	E6613373	44.40	45.40	1.00	0.04	0.22	1.25	8.00	0.19
		lamination, pseudo-beds, calcite nodules & limestone nodules and abundant water	E6613374	45.40	45.90	0.50	0.05	0.06	1.25	1.25	0.88
		escape structures. Most obvious structure in facies is cross-cutting veins	E6613375	45.90	46.50	0.60	0.02	0.17	1.25	5.20	0.13
		containing massive sphalerite and galena with minor pyrite. They range in width	E6613376	46.50	47.40	0.90	0.02	0.32	1.25	12.40	0.05
		from 0.5 to 10mm.	E6613377	47.40	47.70	0.30	0.02	0.33	1.25	12.60	0.05
			E6613378	47.70	48.70	1.00	0.23	0.19	1.25	8.10	1.19
		- THIN BEDDED CHERTY MUDSTONE FACIES: Consists of rhythmic intercalated	E6613379	48.70	49.70	1.00	0.23	0.20	1.25	7.50	1.17
		laminae of chert, carbonaceous mudstone and minor micrite. This facies contains	E6613380	49.70	49.70	0.00	6.00	6.85	68.40	169.00	0.88
		significant amounts of Zn and Pb sulphides.	E6613381	49.70	50.70	1.00	0.21	0.08	1.25	3.30	2.52
			E6613382	50.70	51.70	1.00	0.21	0.08	1.25	3.40	2.50
		- CHERTY MUDSTONE FACIES: Consists of a greyish black monotonous siliceous,	E6613383	51.70	52.70	1.00	0.81	0.06	1.25	2.70	13.56
		carbonaceous mudstone. It is most typically found overlying the thin bedded	E6613384	52.70	53.70	1.00	0.78	0.06	1.25	1.25	13.34
		calcareous mudstone facies.	E6613385	53.70	54.30	0.60	0.03	0.01	1.25	1.25	5.26
			E6613386	54.30	55.00	0.70	0.02	0.72	1.25	14.10	0.03
		- THIN BEDDED CALCAREOUS MUDSTONE FACIES: Consists of laminated carbonaceous	E6613387	55.00	56.00	1.00	0.02	0.61	1.25	12.40	0.04
		mudstone containing 20-40% calcite, 40-55% quartz and 10-20% muscovite.	E6613388	56.00	57.00	1.00	0.03	0.60	1.25	20.90	0.05
		Sulphides occur in laminae. In the XY area it is usually the lowest facies in	E6613389	57.00	58.00	1.00	0.03	0.57	1.25	20.80	0.05
		the section to contain laminated sulphides.	E6613390	58.00	59.00	1.00	1.81	9.75	1.25	249.00	0.19
			E6613391	58.00	59.00	1.00	1.79	7.74	2.60	236.00	0.23
		- CALCAREOUS MUDSTONE FACIES: Consists of grey to greyish black monotonous,	E6613392	59.00	60.00	1.00	1.77	5.95	1.25	149.00	0.30
		calcareous siliceous carbonaceous mudstone. There are no feathery calcite beds	E6613393	60.00	61.00	1.00	1.78	6.05	1.25	151.00	0.29
		or pyrite-calcite blebs in the facies, making it easily distinguishable from	E6613394	61.00	61.50	0.50	1.67	5.29	1.25	120.00	0.32
		the CCMS.	E6613395	61.50	61.80	0.30	0.02	0.05	1.25	1.25	0.48
			E6613396	61.80	62.70	0.90	1.51	4.86	1.25	110.00	0.31
		- GRADED LIMESTONE FACIES: Is a laminated argillaceous limestone with	E6613397	62.70	63.70	1.00	0.64	4.60	1.25	101.00	0.14
		intercalated carbonaceous limestone laminae. The main rock type in the facies	E6613398	63.70	64.70	1.00	1.29	3.36	1.25	96.20	0.38
		is laminated limestone with laminae up to 0.1-7mm thick.	E6613399	64.70	65.70	1.00	1.24	3.36	1.25	95.80	0.37
			E6613400	65.70	65.70	0.00	0.01	0.01	1.25	1.25	1.47
		- LIGHT GREY BASAL LIMESTONE FACIES - LGLS: Consists of laminated	E6613401	65.70	66.50	0.80	0.50	1.45	1.25	37.90	0.34

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		argillaceous limestone. In the Anniv area it marks the end of the ACTM. It's not always present in the stratigraphy.	E6613402	66.50	67.50	1.00	1.57	6.63	1.25	166.00	0.24
			E6613403	67.50	68.20	0.70	1.84	8.85	1.25	214.00	0.21
			E6613404	68.20	68.60	0.40	5.23	19.27	3.20	516.00	0.27
		- BASAL FACIES: This is a highly contorted and locally foliated carbonaceous mudstone. Unlike the other facies it is not repeated higher in the member. It appears locally to contain the slip zone of a major slump. The facies has only been observed in the YX area. It is 0.1-2m thick. The facies consists of massive carbonaceous siliceous mudstone with lenses and laminae of contorted, slightly carbonaceous chert.	E6613405	68.60	69.40	0.80	2.64	8.68	1.25	248.00	0.30
			E6613406	69.40	70.00	0.60	0.98	3.53	1.25	97.00	0.28
			E6613407	70.00	71.00	1.00	0.61	2.31	1.25	56.30	0.26
			E6613408	71.00	72.00	1.00	0.24	1.14	1.25	24.20	0.21
			E6613409	72.00	73.00	1.00	0.43	2.31	1.25	60.00	0.19
			E6613410	73.00	73.00	0.00	1.37	2.69	17.90	173.00	0.51
			E6613411	73.00	74.00	1.00	0.18	0.13	1.25	2.80	1.41
		« 31.80- 32.30 WEAK-MODERATE GRADE medium-dark grey siliceous mudstone. Very cherty, with a brittle "chipped" texture. No veining within this range feature. Moderately competent, owing to brittle, conchoidal fractures despite high rock strength. Poorly defined micro-laminae visible only in top 5 cm. Blebs of sphalerite at top of range. »									
		‹ @ 31.80 Sphalerite blebs ›									
		« 32.30- 32.80 BARREN-TRACE medium grey calcareous limestone. Interpreted as a concretion. Chipped brittle fracture texture similar to the range above. Highly competent. Abundant calcite veining from mm- to cm-scale thicknesses, both planar and wormy sets. »									
		« 32.80- 35.50 HIGH GRADE faulted dark grey siliceous mudstone. Common sub-mm to cm-scale calcite veining: textures include wormy, planar, fracture-fill, & micro-fault offset. Very poor competency: entire range could be described as faulted; 32.8-33.2 & 34.7-35.0 are nearly 100% gouge. Characteristic micro-laminae are only apparent from 35.0-35.5. Entire range is highly deformed, with some intervals of competent core appearing to have a healed fault-breccia texture. Common fracture-filling (tension crack?) calcite and sulphide mineralisation. Range grades from no apparent graphite to moderately graphitic at the downhole boundary. »									
		‹ @ 33.90 Galena bleb, >1cm; several sphalerite blebs, small ›									

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%

« 35.50- 36.10 BARREN-TRACE dark grey-black siliceous mudstone. Very rare mm-scale calcite veins are planar, offset. Moderately competent. Highly graphitic. »

« 36.10- 36.30 BARREN medium grey calcareous limestone. Interpreted as a concretion. Wormy mm- to cm-scale calcite veins. Highly competent. »

« 36.30- 37.20 TRACE-WEAK GRADE faulted dark grey siliceous mudstone. Rare, sub-cm scale, wormy calcite veins. Poorly competent. No visible micro-laminae. 2% gouge, 98% broken core. Weakly graphitic. »

« 37.20- 38.00 MODERATE GRADE heavily faulted dark grey siliceous mudstone. Rare, sub-cm scale, wormy calcite veins. Very poor competency. Rare micro-laminae in intact core fragments. Moderately graphitic. 8% gouge, 92% broken core. »

‹ @ 37.20 Sphalerite blebs, mm scale ›

« 38.00- 39.90 WEAK GRADE dark grey siliceous mudstone. Rare, sub-cm scale wormy calcite veins. Poorly competent. Rare, moderately well-developed micro-laminae, which are slumpy. Moderately graphitic. 39.3-39.9 exhibits shear zone/healed fault textures. »

« 39.90- 41.60 BARREN-TRACE medium-dark grey calcareous mudstone. Sub-mm to mm-scale calcite veins are predominantly planar. Highly competent. Weakly graphitic. »

« 41.60- 42.40 BARREN medium grey calcareous limestone. Interpreted as a concretion. Abundant sub-mm to cm-scale calcite veins are predominantly wormy, sometimes chaotic. Highly competent. »

« 42.40- 46.50 BARREN-TRACE broken dark grey siliceous mudstone. Common wormy calcite veins with sub-mm to cm-scale thicknesses. Moderately competent: highly broken zone but most pieces of core are 5-10 cm in length, no

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gouge. Rare, poorly defined micro-laminae. Moderately graphitic. »

« 46.50- 47.40 BARREN-TRACE faulted dark grey siliceous mudstone. Rare wormy calcite veins are sub-mm to cm-scale thick. Very low competency: 90% brco, 10% gg. Moderately graphitic. »

« 47.40- 53.70 BARREN-TRACE dark grey siliceous mudstone. Rare sub-mm to cm-scale wormy & planar calcite veins. Moderately competent: brittle mechanical failures along weak planes. Moderately graphitic. »

« 53.70- 54.30 BARREN light-medium grey calcareous limestone. Interpreted as a concretion. Abundant planar calcite veining, mm-scale to >5 cm healed breccia. Highly competent. »

« 54.30- 58.00 WEAK GRADE dark grey siliceous mudstone. Rare, sub-mm to cm-scale wormy calcite veins. Highly competent. Moderately well-developed micro-laminae increasing in frequency towards bottom of range. Weakly graphitic. »

« 58.00- 61.50 HIGH GRADE laminated medium grey siliceous mudstone. Very rare sub-cm calcite veins with planar & wormy geometries. Large ~10 cm calcite fracture fill at 60.6 m associated with "sworled" micro-folded/slumping micro-laminae pseudo-beds. Very strongly developed micro-laminae exhibiting less slumping than typical; abundant water escape structures are present. Abundant galena stringers, rare visible sphalerite. Weakly graphitic. »

‹ @ 58.30 Galena stringer ›
‹ @ 59.10 Sphalerite bleb ›
‹ @ 59.20 Galena stringer, thick ›
‹ @ 59.70 Sphalerite blebs ›
‹ @ 59.80 Galena bleb ›

« 61.50- 61.80 BARREN medium grey calcareous limestone concretion. Common sub-cm calcite veins are typically planar, occasionally wormy. Highly competent. »

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		« 61.80- 65.70 MODERATE-HIGH GRADE laminated medium grey siliceous mudstone. Very rare cm-scale wormy calcite veins. Moderately competent. Well-developed micro-laminae, rarely micro-faulted or micro-folded (water escape structures?). »									
		« 65.70- 69.40 MODERATE GRADE light-medium grey calcareous mudstone. Abundant chaotic calcite veins vary in density approaching stockwork-like textures in places. Veins range from sub-mm to cm-scale thicknesses. Moderately broken (poor competency). No micro-laminae, but occasional stringers and blebs of galena, rare blebs of sphalerite. »									
		‹ @ 68.30 Galena stringers, several ›									
		‹ @ 68.50 Sphalerite bleb ›									
		« 69.40- 74.00 TRACE-WEAK GRADE light grey calcareous limestone. Interpreted as basal limestone unit of ACTM. Calcite veins are extremely high density, verging on stockwork throughout the range. Vein thicknesses range from sub-mm to cm-scale and are planar, wormy, &/or chaotic. Near the bottom of the range, vein density is so high it imparts a breccia-like texture of limestone clasts within a calcite matrix. »									
74.00	**80.00**	**FLT**	E6613412	74.00	76.50	2.50	0.40	0.32	1.25	9.00	1.26
		15% competent core, 10% gouge, 75% broken core. Intact core clearly identifable as limestone with abundant calcite veining, similar to 69.4-74.0 m, occurs between heavily broken dark gray carbonaceous mudstone, interpreted as Upper Siliceous and potentially containing Calcareous Mudstone fragments. Predominantly siliceous and highly graphitic.	E6613413	76.50	77.90	1.40	0.01	0.08	1.25	1.25	0.08
			E6613414	77.90	79.40	1.50	0.01	0.09	1.25	1.25	0.07
80.00	**163.80**	**USMS**	E6613415	161.00	162.00	1.00	0.04	0.35	1.25	10.00	0.11
		USMS – Upper Siliceous Mudstone	E6613416	162.00	163.00	1.00	0.04	0.36	1.25	9.80	0.10
			E6613417	163.00	163.80	0.80	0.02	0.32	1.25	14.30	0.05
		Consists of interlaminated dark grey to black mudstone and light to medium grey chert. Regionally, a 1m thick graptolite zone occurs 15m below the top of the upper unit, this is usable as a horizon. The USMS is divided into 3 units. The Lower Unit contains abundant limestone concretions and Galena and sphalerite micro-concretions occur locally near the base of this unit. « gra , lm chrt									

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		-20.00% », « cg xtl sph crns ca 5.00-20.00cm », « bed chrt 10.00-15.00% »,									
		In the rare cases where bedding indicators are identifiable, they are micro-folded into a wormy shape without a measurable "average alpha". The entire unit is very broken.									
		« 80.00- 85.30 FLT: 21% competent core, 19% gouge, 10% fault breccia, 50% broken core. »									
		« 90.00- 90.60 Limestone concretion »									
		« 93.50- 94.00 Limestone concretion »									
		« 94.00- 105.90 FLT/Broken Zone: All mudstone over this interval is heavily broken/faulted; all intact pieces are limestone concretions. Limestone: 97.7-97.9, 98.8-99.1, 101.7-102.2, 103.8-104.2. 13% competent core, 7% gouge, 10% fault breccia, 70% broken core. »									
		« 110.70- 116.20 FLT: 11% competent core, 5% gouge, 4% fault breccia, 80% broken core »									
		« 130.70- 132.30 FLT: 19% competent core, 6% gouge, 5% fault breccia, 70% broken core »									
		« 135.50- 137.00 FLT: 22% competent core, 18% gouge, 5% fault breccia, 55% broken core »									
		« 148.30- 158.00 FLT/Broken Zone: 19% competent core, 2% gouge, 4% fault breccia, 75% broken core »									
		« 162.20- 163.80 FLT: 15% competent core, 10% gouge, 25% fault breccia, 50% broken core. »									
163.80	**183.00**	**ACTM**	E6613418	163.80	164.50	0.70	0.02	0.35	1.25	14.40	0.05
			E6613419	164.50	164.90	0.40	0.05	0.28	1.25	7.40	0.18
		ACTM – Active Member									

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		The ACTM consists of a repetitive, possibly rhythmic, sequence of intercalated carbonaceous mudstone, cherty mudstone, chert and limestone and locally contains economically significant Zn and Pb sulphides (see bold marked facies), mainly in its sections with well developed lamination. Because of its heterogeneity, the member is distinctive and easily identified.
		==========
		The ACTM has 8 different facies:
		==========
		- GREY CHERT FACIES: Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.
		- WHITISH GREY ZN-PB MUDSTONE FACIES: Is a laminated cherty rock containing up to 70% sulphides. Mineralization: quartz, sphalerite and galena are the major minerals with only minor amounts of pyrite and locally calcite. Sedimentary diagenetic structures are common and well displayed in the facies, such as: lamination, pseudo-beds, calcite nodules & limestone nodules and abundant water escape structures. Most obvious structure in facies is cross-cutting veins containing massive sphalerite and galena with minor pyrite. They range in width from 0.5 to 10mm.
		- THIN BEDDED CHERTY MUDSTONE FACIES: Consists of rhythmic intercalated laminae of chert, carbonaceous mudstone and minor micrite. This facies contains significant amounts of Zn and Pb sulphides.
		- CHERTY MUDSTONE FACIES: Consists of a greyish black monotonous siliceous, carbonaceous mudstone. It is most typically found overlying the thin bedded calcareous mudstone facies.
		- THIN BEDDED CALCAREOUS MUDSTONE FACIES: Consists of laminated carbonaceous mudstone containing 20-40% calcite, 40-55% quartz and 10-20% muscovite.

Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
E6613420	164.90	165.20	0.30	0.05	0.30	1.25	6.80	0.16
E6613421	164.90	165.20	0.30	0.09	0.56	1.25	13.00	0.16
E6613422	165.20	166.00	0.80	1.57	8.65	3.30	255.00	0.18
E6613423	166.00	166.80	0.80	2.29	12.08	2.90	433.00	0.19
E6613424	166.80	167.40	0.60	2.37	5.99	1.25	176.00	0.40
E6613425	167.40	168.10	0.70	2.66	8.01	1.25	205.00	0.33
E6613426	168.10	168.50	0.40	0.33	0.91	1.25	24.80	0.36
E6613427	168.50	169.40	0.90	0.32	0.85	1.25	23.80	0.38
E6613428	169.40	169.80	0.40	1.03	2.89	1.25	90.20	0.36
E6613429	169.80	170.30	0.50	0.95	2.87	1.25	84.90	0.33
E6613430	170.30	170.30	0.00	0.01	0.00	1.25	1.25	2.01
E6613431	170.30	171.10	0.80	0.21	0.29	1.25	8.20	0.73
E6613432	171.10	171.90	0.80	0.03	0.07	1.25	1.25	0.47
E6613433	171.90	172.80	0.90	0.03	0.07	3.10	1.25	0.44
E6613434	172.80	173.20	0.40	3.25	12.98	6.30	360.00	0.25
E6613435	173.20	173.40	0.20	3.36	12.98	6.40	360.00	0.26
E6613436	173.40	174.40	1.00	1.87	10.31	5.00	287.00	0.18
E6613437	174.40	174.90	0.50	0.18	0.13	1.25	1.25	1.40
E6613438	174.90	175.90	1.00	0.18	0.13	1.25	2.60	1.46
E6613439	175.90	176.90	1.00	2.41	7.62	1.25	205.00	0.32
E6613440	176.90	176.90	0.00	5.90	6.79	70.10	179.00	0.87
E6613441	176.90	177.80	0.90	2.02	7.41	5.40	169.00	0.27
E6613442	177.80	178.60	0.80	0.94	1.93	1.25	48.40	0.48
E6613443	178.60	178.80	0.20	0.11	0.47	1.25	9.30	0.23
E6613444	178.80	179.70	0.90	1.67	7.40	1.25	175.00	0.23
E6613445	179.70	180.60	0.90	3.70	9.95	2.70	291.00	0.37
E6613446	180.60	181.50	0.90	0.83	3.51	1.25	85.30	0.24
E6613447	181.50	182.50	1.00	1.13	3.55	1.25	98.10	0.32
E6613448	182.50	183.00	0.50	0.33	1.45	1.25	40.60	0.22

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%

Sulphides occur in laminae. In the XY area it is usually the lowest facies in the section to contain laminated sulphides.

- CALCAREOUS MUDSTONE FACIES: Consists of grey to greyish black monotonous, calcareous siliceous carbonaceous mudstone. There are no feathery calcite beds or pyrite-calcite blebs in the facies, making it easily distinguishable from the CCMS.

- GRADED LIMESTONE FACIES: Is a laminated argillaceous limestone with intercalated carbonaceous limestone laminae. The main rock type in the facies is laminated limestone with laminae up to 0.1-7mm thick.

- LIGHT GREY BASAL LIMESTONE FACIES - LGLS: Consists of laminated argillaceous limestone. In the Anniv area it marks the end of the ACTM. It's not always present in the stratigraphy.

- BASAL FACIES: This is a highly contorted and locally foliated carbonaceous mudstone. Unlike the other facies it is not repeated higher in the member. It appears locally to contain the slip zone of a major slump. The facies has only been observed in the YX area. It is 0.1-2m thick. The facies consists of massive carbonaceous siliceous mudstone with lenses and laminae of contorted, slightly carbonaceous chert.

« 163.80- 164.90 TRACE dark grey siliceous mudstone. Common sub-mm to cm-thick wispy, wormy calcite veins. Highly competent. No visible micro-laminae. Acid reaction produces characteristic sulphur smell, indicating potential for sphalerite mineralisation. Pyrite fracture fill/stringers. Moderately graphitic. »

« 164.90- 165.20 WEAK GRADE medium grey calcareous mudstone. Common sub-mm to several-cm thick wormy &/or planar calcite veins. Highly competent. No visible micro-laminae. Smells of sulphur when reacting with acid, suggesting sphalerite. »

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%

« 165.20- 168.10 HIGH GRADE laminated medium grey siliceous mudstone. Rare mm- to cm-thick wormy calcite veins & healed breccias. Moderately competent. Very well-developed slumping micro-laminae. Less micro-faulting (water escape structures?) than typical of the well-laminated ACTM. Common galena stringers and blebs, rare blebs of sphalerite. Weakly graphitic. »

‹ @ 165.50 Galena stringer ›
‹ @ 166.30 Galena stringers, minor sphalerite blebs ›
‹ @ 166.40 Galena stringer ›
‹ @ 166.50 Galena bleb, large (>1cm) ›
‹ @ 166.60 Galena stringer, sphalerite blebs ›
‹ @ 166.70 Sphalerite stringer ›
‹ @ 167.20 Galena mineralisation filling "tension-crack"-like structure ›

« 168.10- 168.50 BARREN light-medium grey calcareous limestone. Interpreted as a concretion. Rare sub-mm to cm-thick wormy calcite veins. Highly competent. »

« 168.50- 169.40 WEAK GRADE medium grey calcareous limestone grading into siliceous mudstone. Abundant sub-mm to cm-scale wormy &/or planar calcite veins. Weakly developed slumping micro-laminae. »

« 169.40- 169.80 MODERATE-HIGH GRADE laminated medium-dark grey calcareous mudstone. Common sub-mm to cm-scale wispy, wormy calcite veins. Well-developed slumping & micro-faulted (water escape structure?) micro-laminae. Acid reaction produces very strong sulphur odour, indicating potential for sphalerite mineralisation. »

« 169.80- 170.30 WEAK GRADE laminated medium-dark grey siliceous mudstone. Common sub-mm to cm-thick wispy calcite veins. Micro-laminae are less well-developed than in above range. Moderately graphitic. »

« 170.30- 172.80 BARREN-TRACE faulted dark grey & light-medium grey siliceous mudstone & calcareous limestone, respectively. Common mm- to cm-thick wormy, wispy calcite veins. Well broken/poorly competent. 44%

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		competent core, 4% gouge, 26% fault breccia, 26% broken core. Highly graphitic. »									
		« 172.80- 174.40 HIGH GRADE laminated medium grey-beige calcareous mudstone. Rare mm- to cm-thick wormy calcite veins. Moderately competent. Extremely well-developed highly deformed micro-laminae. Strong sulphur odour, metallic beige colour of some pseudo-beds, and noticeably anomalous density suggest high grade sphalerite and galena mineralisation. Weakly graphitic. »									
		« 174.40- 175.90 BARREN-TRACE light-medium grey calcareous limestone. Common sub-mm to cm-thick calcite veins are predominantly planar, rarely wormy &/or chaotic. Highly competent. Interpreted as a concretion. »									
		« 175.90- 178.60 MODERATE-HIGH GRADE laminated medium grey mudstone, calcareous grading to siliceous. Common sub-mm to cm-thick planar and/or wormy, micro-faulted calcite veins. Moderately competent. Well-developed slumping & micro-faulted (water escape structure?) micro-laminae. Characteristic odour suggests sphalerite mineralisation. Moderately graphitic. »									
		« 178.60- 178.80 BARREN-TRACE light grey calcareous limestone. Highly competent. Shart contacts, interpreted as a concretion. »									
		« 178.80- 183.00 MODERATE GRADE laminated light grey calcareous mudstone. Rare sub-mm to cm-thick chaotic, wormy calcite veins. Highly competent to 182.8 m, faulted thereafter. Very well-developed slumping, micro-faulted (water escape structure?) micro-laminae. Strong odour upon acid reaction suggests sphalerite mineralisation. Moderately graphitic. »									
183.00	**219.00**	**CCMS**	E6613449	183.00	185.00	2.00	0.09	0.32	1.25	10.10	0.29
		CCMS – Calcareous Mudstone	E6613450	185.00	188.00	3.00	0.04	0.05	1.25	1.25	0.69
			E6614101	185.00	188.00	3.00	0.04	0.06	1.25	1.25	0.57
		Massive, calcareous, carbonaceous, dark grey mudstone. Most of the member is massive, but rare poorly defined bedding and pyrite-calcite micro-concretions are present. Most diagnostic structures are feathery calcite beds (=thin	E6614102	188.00	189.00	1.00	0.04	0.06	1.25	1.25	0.62

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From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		calcite-cemented concretions, many of them contain pyrite cores) and calcite pseudo-beds (= fibrous calcite vein parallel to bedding).									
		« lm ca 5.00-10.00mm », « nodules py -3.00% 2.00-20.00mm »,									
		« 183.00- 189.90 FLT: Unit is heavily deformed. Competent core recovered is predominantly calcareous limestone with chaotic, high density calcite veins. This may represent the basal limestone unit of the ACTM, unrelated concretions, or fault-transported CLST. 19% competent core, 21% broken core, 30% gouge, 30% fault breccia. »									
		« 197.50- 199.00 Limestone, light-medium grey calcareous limestone with abundant mm- to several-cm-thick wormy calcite veins. Uphole and downhole contacts are both obviously gradational. »									
		« 206.50- 208.80 FLT: 5% gouge, 10% fault breccia, 85% broken core »									
		‹ @ 212.40 S0 defined by fine pyrite pseudo-beds 25° ›									
219.00	**219.00**	**EOH**									