

<b>Hole No.:</b> DNE-116	<b>Depth:</b> 300.00 m	<b>Horizontal Length:</b> 0.00 m	<b>Project:</b> 1710
<b>Location Data:</b>			
<b>Property:</b>	Selwyn Project	<b>Claim Name:</b>	NOD 39
<b>Mining District:</b>	Selwyn Basin	<b>Grant Number:</b>	YB49403
<b>Province/Territory:</b>	Yukon		
<b>UTM Co-Ordinates &amp; Altitude of Drill Hole Collar:</b>			
<b>UTM Easting:</b>	478779.18 m	<b>True Azimuth:</b>	230.0 °
<b>UTM Northing:</b>	6933298.05 m	<b>Hole Angle:</b>	-65.0 °
<b>Elevation (m):</b>	1164.51 m	<b>NTS Name:</b>	No Title
		<b>UTM Datum:</b>	NAD 83
		<b>UTM Grid Zone:</b>	9
		<b>NTS Number:</b>	105I11
<b>Grid Co-Ordinates of Drill Hole Collar:</b>			
<b>Grid Easting (m):</b>	0.00 m	<b>Grid Name:</b>	HP 06
<b>Grid Northing (m):</b>	0.00 m	<b>Grid Type:</b>	100m
<b>Grid Azimuth:</b>	290.0 °		
<b>Dimond Drilling Contract:</b>			
<b>Drilled By:</b>	NL-01	<b>Date Drilling Start:</b>	06-Jul-14
		<b>Date Finish:</b>	13-Jul-14
<b>Diamond Drill Core:</b>			
<b>Logged By:</b>	H. Grimson	<b>Date Logging Start:</b>	13-July-14
		<b>Date Finish:</b>	15-July-14
<b>Legend for Core Logging Codes:</b> PAX			
<b>Core Size:</b>	HQ3	<b>Cemented:</b>	Yes
<b>Casing Depth:</b>	26.00 m	<b>Casing Pulled:</b>	No
<b>Water Depth:</b>	0.00 m	<b>Overburden Depth:</b>	26.00 m
<b>Level:</b>			
<b>Section:</b>		<b>Drift:</b>	

# Selwyn Project

## Diamond Drill Log

### Survey Data for Hole

# DNE-116

**Hole Comments:**

Mon, Jul 07 --- DS: Wait for cat operator - 2 hours. Move from DNE-115, 3 hours. Drilling HQ and advancing HW casing. Casing down to 21m, cored to 24m. NS: finished casing at 12 am, pulled for the ace tool. Reamed new shell down. Drilling through clay / fault. Stripped threads on HQ ace tool core barrel extension. Core barrel downhole. Ordered 2 new ACT tool extension Jul-07, morning (in stock in Whitehorse). Attempt to retrieve gear down hole with a tap / fishing tool.

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Tue, Jul 08 --- DS: install HQ, hook up to core barrel, cut off 1 HQ rod. Advance HW casing to 34.5m. Extra reaming and wash with thick mud (blue & gold). HW is free. Pull HQ to retrieve core barrel. 2 hours washing drill. Ordered and flew in 2 more ACT core barrel extensions - arrived before shift change. NS: assembled the new core barrel, faulty ground all shift. Old shell and bit down hole, lots of clay. Drilled 36m down to 60m. \*\*HQ core barrel was scrap due to poor quality ATC coupling (soft steel). One HQ rod was cut to get the proper stick up for reaming casing over.

Wed, Jul 09 --- DS: drilled 18m down to 78m. Very broken, soft rock and very slow drilling, blocky. Extra washing at end of runs. Bit change at 60m. Wash at end of shift for a packer test. NS: Packer test until 11pm, then drilled 57m down to 117m in CCMS. In and out of fault.

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Thu, Jul 10 --- DS: drilled 24m down to 138m. Broken & blocky, washing at end of runs. 3 hours air lift test. NS: drilled 30m down to 168m. Trying to get a hold of Vlad about packer test, then put rods to bottom. Started washing the hole at 2:30, finished packer test at 5:30. Pulled for the bit.

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Fri, Jul 11 --- DS: drilled 30m down to 198m. Broken & blocky, extra washing at end of runs. Ream four times to free up hole. NS: drilled 30m down to 228m. Fault starting ~213m. Started washing at 2pm for packer. 2.5 hours packer test. Rods back to bottom 5am with reaming.

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Sat, Jul 12 --- DS: drilled 39m down to 267m. Good drilling. Added 2 dueces of casing (casing dropping). Extra washing. NS: Drilled 24m down to 291m. Started washing the hole for a packer test at 9pm. Rods back to bottom 2 am.

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Sun, Jul 13 --- DS: drilled 9m down to 300m. Hole started making water somewhere after 283m, ~12L (3 gal)/min. Packer test, natural air lift test (since hole is making water). Packer test (5 hr) stopped hole from jaking water at 283m. NS: Finished the packer test, water sampling. Pulled rods to do downhole surveys. Ferry cement (129 bags) from airport to drill, 111 pvc.

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Mon, Jul 14 --- DS: Hole continued to make water, installed rods with Van Rooth Plug but unsuccessful. Ordered new plug. NS: Pulled all rods.

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Tue, Jul 15 --- DS: Installed 2 Van Ruth plugs to stop water. Started installing PVC piping and piezometers. NS: Began cementing. Due to amount of water, cement was mixed at a thicker consistancy than on previous holes. This dried faster than anticipated, causing rods to become stuck. 72 rods were recovered, leaving 21 down the hole. by removing these however, the piezometer cabels may have been damaged. Piezomeer cables are now

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## Diamond Drill Log

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approximately 8ft down hole; need to retrieve and determine if any are still working.

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-65.0	230.0
51.00	-65.1	229.4
102.00	-65.4	228.9
150.00	-66.1	230.1
201.00	-65.7	232.4
252.00	-65.3	230.0
300.00	-65.0	229.5

# Selwyn Project Diamond Drill Log

Hole Number:  
**DNE-116**

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

From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
0.00	26.00	<b>OVBR</b> <i>Brown mud, boulder, minor rubble</i>									
26.00	29.50	<b>FLMD</b> <i>FLMD – Flaggy Mudstone Formation</i>  <i>Dark grey mudstone in the upper portions of the unit grading into light grey mudstone to siltstone. Contains abundant wispy bioturbation which ranges from randomly-oriented at the top of the unit to bedding-parallel throughout the majority of the unit. Darker upper section has a strong fetid odour along broken surfaces. « btrb 0.10-2.00cm », « cg xtl crns ca 1.00-5.00% 5.00-150.00cm », « crns py 1.00-5.00% 0.10-0.50mm »,  « @ 27.00 S1 aligned bioturbations 46° »</i>									
29.50	31.20	<b>FLT</b> <i>GG-region, gg-matrix breccia: carbonaceous sub-rounded clasts suspended within gg-matrix, followed by gg+rubble</i>  <i>Local intact, highly "gg-weathered" micro-fractured core</i>									
31.20	46.10	<b>USMS</b> <i>USMS – Upper Siliceous Mudstone</i>  <i>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% »,  « 34.10- 39.10 FLT rubble zone, minor gg, significant core loss, very graphitic »  « @ 44.00 S0 and S1 crenulated calcite veins and S1-crenulation direction 57-5° »</i>	E6625551	44.10	45.10	1.00	0.01	0.09	1.25	1.25	0.06
			E6625552	45.10	46.10	1.00	0.01	0.18	1.25	7.00	0.04

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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%
<b>46.10</b>	<b>55.30</b>	<b>ACTM</b>	E6625553	46.10	47.00	0.90	1.15	6.84	1.25	194.00	0.17
<i>ACTM – Active Member</i>			E6625554	47.00	47.80	0.80	1.65	6.64	1.25	172.00	0.25
<p><i>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.</i></p> <p>=====</p> <p><i>The ACTM has 8 different facies:</i></p> <p>=====</p> <p>- <b>GREY CHERT FACIES:</b> <i>Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.</i></p> <p>- <b>WHITISH GREY ZN-PB MUDSTONE FACIES:</b> <i>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 &amp; 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.</i></p> <p>- <b>THIN BEDDED CHERTY MUDSTONE FACIES:</b> <i>Consists of rhythmic intercalated laminae of chert, carbonaceous mudstone and minor micrite. This facies contains significant amounts of Zn and Pb sulphides.</i></p> <p>- <b>CHERTY MUDSTONE FACIES:</b> <i>Consists of a greyish black monotonous siliceous, carbonaceous mudstone. It is most typically found overlying the thin bedded calcareous mudstone facies.</i></p> <p>- <b>THIN BEDDED CALCAREOUS MUDSTONE FACIES:</b> <i>Consists of laminated</i></p>			E6625555	47.80	48.50	0.70	2.90	7.87	1.25	185.00	0.37
			E6625556	48.50	49.10	0.60	0.15	1.79	1.25	26.70	0.08
			E6625557	49.10	49.60	0.50	0.16	3.21	1.25	59.30	0.05
			E6625558	49.60	50.40	0.80	0.31	2.39	1.25	54.10	0.13
			E6625559	50.40	50.80	0.40	0.38	1.83	1.25	42.60	0.21
			E6625560	50.80	51.40	0.60	0.53	0.73	1.25	18.30	0.72
			E6625561	50.80	51.40	0.60	0.19	0.61	1.25	15.30	0.30
			E6625562	51.40	52.10	0.70	1.39	2.07	1.25	57.30	0.67
			E6625563	52.10	53.00	0.90	1.44	5.29	1.25	143.00	0.27
			E6625564	53.00	54.00	1.00	1.27	5.91	1.25	134.00	0.21
			E6625565	54.00	54.70	0.70	1.86	6.49	2.80	136.00	0.29
			E6625566	54.70	55.30	0.60	0.47	1.73	1.25	33.80	0.27

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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%
		<p>carbonaceous mudstone containing 20-40% calcite, 40-55% quartz and 10-20% muscovite. Sulphides occur in laminae. In the XY area it is usually the lowest facies in the section to contain laminated sulphides.</p> <p>- 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.</p> <p>- 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.</p> <p>- 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.</p> <p>- 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.</p> <p>« 46.10- 48.50 High grade, siliceous, medium grey mudstone with pale grey weakly defined laminations, isolated pale grey high-grade bands/pseudobeds with pale orange sphalerite crystals and disseminated galena, beds of disseminated grainy sphalerite »</p> <p>« 48.50- 49.10 Moderate-low grade, calcareous limestone, weakly defined laminations, appears barren but XRF-readings include: 4.1%, 0% and 4.3% Zn; enriched from surrounding mineralization? »</p>									

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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%
« 49.10- 49.60 Moderate grade: barren limestone cut by 15cm-wide high grade siliceous band of massive mineralization, disseminated galena and small pale orange sphalerite within fluid escape structures »											
« 49.60- 50.40 Moderate grade, siliceous mudstone, carbonaceous with pale grey weakly defined laminations, brecciating quartz vein cuts mudstone, 10cm-wide high grade band: pale grey with disseminated grainy sphalerite as well as a pale-yellow spalerite pseudobed »											
« 50.40- 50.80 Trace-low grade, calcareous limestone, weakly laminated, local quartz veining »											
« 50.80- 54.00 Trace-low grade, siliceous mudstone, heavily intruded by quartz veins and veinlets- isolated crackle brecciation, very weakly laminated, wide-spaced, carbonaceous »											
« 54.00- 55.30 Moderate-high grade, heavily intruded by quartz and calcite veins, mudstone is dark grey with thick pale grey gainy-sphaleritic laminations, also very thin and tightly laminated regions, very well defined and distorted/cut by veins, siliceous »											
<b>55.30</b>	<b>84.00</b>	<b>FLT</b>	E6625567	55.30	55.90	0.60	0.01	0.09	1.25	1.25	0.11
« 55.30- 64.00 GG-zone with resistant limestone, limestone is barren, homogenous and with isolated calcite-vein stockwork brecciation (minor), very carbonaceous black gg »			E6625568	55.90	57.00	1.10	0.01	0.10	1.25	1.25	0.08
			E6625569	57.00	57.40	0.40	0.02	0.15	1.25	1.25	0.12
			E6625570	57.40	57.40	0.00	0.00	0.00	1.25	1.25	0.48
			E6625571	57.40	58.00	0.60	0.00	0.00	1.25	1.25	0.65
			E6625572	58.00	59.00	1.00	0.01	0.13	2.70	4.90	0.04
			E6625573	59.00	60.00	1.00	0.00	0.04	2.70	1.25	0.10
			E6625574	60.00	61.10	1.10	0.01	0.00	1.25	1.25	2.60
			E6625575	61.10	63.00	1.90	0.08	0.12	2.90	3.10	0.63
			E6625576	63.00	64.00	1.00	0.00	0.02	1.25	1.25	0.13
			E6625577	64.00	65.00	1.00	0.00	0.00	1.25	1.25	0.84
			E6625578	65.00	66.00	1.00	0.00	0.00	1.25	1.25	1.25
			E6625579	66.00	67.00	1.00	0.00	0.00	1.25	1.25	1.05
« 64.00- 71.00 Possibly USMS. Highly sheared. »											
« 71.00- 84.00 GG mixed with intact core, isolated mineralized rubble and intact core, sheared and sometimes weakly laminated »											

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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%
			E6625580	67.00	67.00	0.00	5.97	6.85	70.40	196.00	0.87
			E6625581	67.00	68.00	1.00	0.01	0.01	1.25	1.25	1.14
			E6625582	68.00	69.00	1.00	0.03	0.06	1.25	1.25	0.53
			E6625583	69.00	70.00	1.00	0.01	0.01	1.25	1.25	0.69
			E6625584	70.00	71.00	1.00	0.01	0.05	1.25	1.25	0.16
			E6625585	71.00	72.00	1.00	0.02	0.35	1.25	16.20	0.05
			E6625586	72.00	72.50	0.50	0.01	0.20	1.25	9.10	0.03
			E6625587	72.50	73.50	1.00	0.00	0.13	1.25	5.40	0.03
			E6625588	73.50	74.50	1.00	0.01	0.05	1.25	1.25	0.15
			E6625589	74.50	75.50	1.00	0.02	0.16	1.25	6.70	0.12
			E6625590	75.50	77.00	1.50	0.64	0.95	1.25	29.00	0.68
			E6625591	75.50	77.00	1.50	0.61	1.03	1.25	33.10	0.59
			E6625592	77.00	78.00	1.00	0.52	2.23	1.25	67.60	0.23
			E6625593	78.00	79.00	1.00	0.57	2.10	1.25	61.30	0.27
			E6625594	79.00	80.00	1.00	1.35	8.19	1.25	319.00	0.16
			E6625595	80.00	80.90	0.90	4.74	7.45	3.70	258.00	0.64
			E6625596	80.90	81.80	0.90	2.41	7.13	3.10	231.00	0.34
			E6625597	81.80	82.50	0.70	0.77	3.46	1.25	94.80	0.22
			E6625598	82.50	83.50	1.00	0.65	4.17	1.25	113.00	0.16
			E6625599	83.50	84.00	0.50	0.06	0.09	1.25	3.20	0.66
<b>84.00</b>	<b>110.40</b>	<b>ACTM</b>	E6625600	84.00	84.00	0.00	0.00	0.00	1.25	1.25	0.60
<i>ACTM – Active Member</i>			E6625601	84.00	84.30	0.30	2.41	10.60	5.80	297.00	0.23
			E6625602	84.30	85.00	0.70	3.46	9.69	2.80	371.00	0.36
<i>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.</i>			E6625603	85.00	85.50	0.50	0.03	0.07	1.25	1.25	0.43
			E6625604	85.50	86.50	1.00	2.18	5.46	1.25	159.00	0.40
			E6625605	86.50	87.30	0.80	3.43	7.82	1.25	214.00	0.44
			E6625606	87.30	88.00	0.70	2.84	13.10	4.00	326.00	0.22
			E6625607	88.00	88.40	0.40	3.58	7.79	1.25	203.00	0.46
			E6625608	88.40	89.10	0.70	0.89	2.61	1.25	68.60	0.34
=====			E6625609	89.10	89.80	0.70	0.26	0.97	1.25	25.00	0.27
<i>The ACTM has 8 different facies:</i>			E6625610	89.80	89.80	0.00	1.41	2.79	21.40	193.00	0.51
=====			E6625611	89.80	90.70	0.90	2.11	7.41	1.25	215.00	0.28
			E6625612	90.70	91.50	0.80	1.62	7.76	1.25	181.00	0.21
<i>- GREY CHERT FACIES: Consists of laminated medium light grey to medium dark</i>			E6625613	91.50	92.10	0.60	1.29	3.49	1.25	86.50	0.37



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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%
<p>grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.</p> <p>- <b>WHITISH GREY ZN-PB MUDSTONE FACIES:</b> 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 &amp; 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.</p> <p>- <b>THIN BEDDED CHERTY MUDSTONE FACIES:</b> Consists of rhythmic intercalated laminae of chert, carbonaceous mudstone and minor micrite. This facies contains significant amounts of Zn and Pb sulphides.</p> <p>- <b>CHERTY MUDSTONE FACIES:</b> Consists of a greyish black monotonous siliceous, carbonaceous mudstone. It is most typically found overlying the thin bedded calcareous mudstone facies.</p> <p>- <b>THIN BEDDED CALCAREOUS MUDSTONE FACIES:</b> Consists of laminated carbonaceous mudstone containing 20-40% calcite, 40-55% quartz and 10-20% muscovite. Sulphides occur in laminae. In the XY area it is usually the lowest facies in the section to contain laminated sulphides.</p> <p>- <b>CALCAREOUS MUDSTONE FACIES:</b> 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.</p> <p>- <b>GRADED LIMESTONE FACIES:</b> 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.</p>			E6625614	92.10	92.90	0.80	0.15	1.20	1.25	31.10	0.12
			E6625615	92.90	93.50	0.60	2.87	8.55	2.80	163.00	0.34
			E6625616	93.50	94.10	0.60	1.37	11.10	1.25	232.00	0.12
			E6625617	94.10	95.10	1.00	0.30	2.14	1.25	60.20	0.14
			E6625618	95.10	96.00	0.90	0.14	0.62	1.25	21.70	0.23
			E6625619	96.00	97.00	1.00	0.09	1.29	1.25	43.60	0.07
			E6625620	97.00	97.80	0.80	0.24	1.20	1.25	44.90	0.20
			E6625621	97.00	97.80	0.80	0.21	1.54	1.25	55.30	0.14
			E6625622	97.80	98.50	0.70	0.04	0.35	1.25	12.30	0.10
			E6625623	98.50	99.30	0.80	0.01	0.03	1.25	1.25	0.24
			E6625624	99.30	100.00	0.70	0.00	0.00	1.25	1.25	0.83
			E6625625	100.00	100.70	0.70	0.01	0.02	1.25	1.25	0.27
			E6625626	100.70	101.70	1.00	0.01	0.02	1.25	1.25	0.41
			E6625627	101.70	102.70	1.00	0.03	0.20	1.25	9.70	0.16
			E6625628	102.70	103.70	1.00	0.10	0.73	1.25	43.30	0.14
			E6625629	103.70	104.70	1.00	0.00	0.25	1.25	24.30	0.02
			E6625630	104.70	104.70	0.00	0.00	0.00	1.25	1.25	0.65
			E6625631	104.70	105.60	0.90	0.00	0.05	1.25	4.40	0.09
			E6625632	105.60	106.50	0.90	0.00	0.36	3.00	31.40	0.01
			E6625633	106.50	106.90	0.40	0.00	0.01	3.20	1.25	0.64
			E6625634	106.90	107.90	1.00	0.00	0.01	1.25	1.25	0.64
			E6625635	107.90	108.70	0.80	0.00	0.00	1.25	1.25	0.76
			E6625636	108.70	109.50	0.80	0.00	0.00	1.25	1.25	2.36
			E6625637	109.50	110.40	0.90	0.01	0.02	1.25	1.25	0.54

# Selwyn Project Diamond Drill Log

Hole Number:  
**DNE-116**

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

From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		<p>- <i>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.</i></p> <p>- <i>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.</i></p> <p>« 84.00- 84.30 High grade, medium-dark grey-brown, very weakly calcareous, highly deformed, poorly defined laminations »</p> <p>« 84.30- 85.00 High grade, decrease in carbon, moderately-defined pale grey thick laminations, locally massive mineralization, disseminated galena, siliceous, highly "weathered" incomplected fractures with minor gg-fill/ intense microdefects »</p> <p>« 85.00- 85.50 Barren limestone, homogenous with vuggy calcite veining and crystals »</p> <p>« 85.50- 87.30 Moderate grade: barren limestone with frequent bands of high grade mineralization: sphalerite-rich, intermittent strong laminations (sometimes massive mineralization), dominantly calcareous with isolated siliceous bands, vuggy calcite, "weathered" microdefects/partial fractures with minor gg-fill »</p> <p>« 87.30- 88.00 High grade, pale grey, calcareous, large fluid escape structures infilled by galena, thick laminations/pseudobeds of homogenous disseminated sphaleritic grains. %Zn-by-XRF: 24% »</p> <p>« 88.00- 88.40 High grade, siliceous, very well defined thick laminations, pale-medium grey, significantly offset by sulphide enriched fluid escape</p>									

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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%
		structures (well defined), blebby galena infill »									
		« 88.40- 89.80 Low grade ,limestone, calcareous medium pale grey, moderately defined parallel laminations »									
		« 89.80- 90.70 High grade, pale grey, calcareous, very well defined pale grey laminations, distorted by significant fluid escape structures »									
		« 90.70- 91.50 Moderate grade, pale grey, patches of very well defined laminations (intermittent), broken fluid escapes structures localized »									
		« 91.50- 92.90 Low grade, significant calcite intrusion, moderate-grade patches defined by intermittent strong and folded laminations »									
		« 92.90- 94.10 High grade, pale grey, siliceous with weakly calcareous regions, extremely deformed laminations, massive fluid escape structures with significant deformation and offset, galena infill. %Zn-by-XRF: 8.6% »									
		« 94.10- 98.50 Low-trace grade, carbonaceous mudstone, siliceous to weakly calcareous mudstone, very weak and sporadic laminations »									
		« 98.50- 101.70 Barren, muddy limestone, homogenous/monotonous, fine grained »									
		« 101.70- 105.60 Broken zone+FLT, significant gg-filled joints and open fractures. Barren? No visible laminations but highly weather core with significant microdeformations »									
		« 105.6-106.9 Barren homogenous carbonaceous mudstone, broken with minor gg »									
		« 106.90- 110.40 Basal limestone, includes "last gasp" calcite vein with characteristic calcareous laminations at very end of interval »									
<b>110.40</b>	<b>142.40</b>	<b>CCMS</b>	E6625638	110.40	110.90	0.50	0.01	0.00	1.25	1.25	1.48
		CCMS – Calcareous Mudstone	E6625639	110.90	111.90	1.00	0.01	0.01	1.25	1.25	1.27

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Canada, V6E 0B6

From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		<p><i>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 calcite-cemented concretions, many of them contain pyrite cores) and calcite pseudo-beds (=fibrous calcite vein parallel to bedding).</i></p> <p>« lm ca 5.00-10.00mm », « nodules py -3.00% 2.00-20.00mm »,</p> <p>‹ @ 117.00 S0 pyrite band 54° ›</p> <p>‹ @ 123.40 S0 bedding, calcareous band 43° ›</p> <p>‹ @ 129.60 S0 bedding, calcareous band 42° ›</p> <p>« 137.60- 142.40 Broken zone with gg+ rubble filled joints »</p>	E6625640	111.90	111.90	0.00	5.69	6.68	72.90	187.00	0.85
<b>142.40</b>	<b>147.60</b>	<b>FLT</b>	E6625641	145.60	146.60	1.00	0.01	0.11	1.25	4.80	0.07
		<p><i>Healed breccia; gg-filled partially healed fractures, calcite and quartz veinlets, isolated gouge along sharp contacts.</i></p> <p><i>Faulted back up to Active Member!</i></p>	E6625642	146.60	147.60	1.00	0.01	0.01	1.25	1.25	0.70
<b>147.60</b>	<b>167.40</b>	<b>ACTM</b>	E6625643	147.60	148.50	0.90	0.00	0.00	1.25	1.25	2.48
		<p><i>ACTM – Active Member</i></p> <p><i>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.</i></p>	E6625644	148.50	149.40	0.90	0.02	0.02	1.25	1.25	0.85
			E6625645	149.40	150.40	1.00	0.01	0.14	1.25	5.50	0.06
			E6625646	150.40	150.90	0.50	0.00	0.09	1.25	3.90	0.05
			E6625647	150.90	151.30	0.40	0.02	0.03	1.25	1.25	0.73
			E6625648	151.30	152.10	0.80	0.01	0.05	1.25	1.25	0.15
			E6625649	152.10	153.00	0.90	0.02	0.04	1.25	1.25	0.38
			E6625650	153.00	154.00	1.00	0.01	0.04	1.25	1.25	0.17
			E6625651	153.00	154.00	1.00	0.01	0.02	1.25	1.25	0.49

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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%
=====			E6625652	154.00	155.00	1.00	0.01	0.03	1.25	1.25	0.41
		The ACTM has 8 different facies:	E6625653	155.00	155.80	0.80	0.03	0.12	1.25	4.40	0.25
=====			E6625654	155.80	156.60	0.80	0.52	1.06	1.25	31.60	0.49
		- GREY CHERT FACIES: Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.	E6625655	156.60	156.90	0.30	6.97	6.47	6.70	206.00	1.08
		- WHITISH GREY ZN-PB MUDSTONE FACIES: Is a laminated cherty rock containing up	E6625656	156.90	157.50	0.60	2.35	7.96	2.90	267.00	0.30
		to 70% sulphides. Mineralization: quartz, sphalerite and galena are the major	E6625657	157.50	158.30	0.80	2.43	8.41	1.25	334.00	0.29
		minerals with only minor amounts of pyrite and locally calcite. Sedimentary	E6625658	158.30	159.10	0.80	0.98	3.83	1.25	122.00	0.26
		diagenetic structures are common and well displayed in the facies, such as:	E6625659	159.10	159.80	0.70	0.91	3.33	1.25	82.30	0.27
		lamination, pseudo-beds, calcite nodules & limestone nodules and abundant water									
		escape structures. Most obvious structure in facies is cross-cutting veins	E6625660	159.80	159.80	0.00	0.00	0.01	1.25	1.25	0.40
		containing massive sphalerite and galena with minor pyrite. They range in width	E6625661	159.80	160.40	0.60	0.76	6.32	1.25	163.00	0.12
		from 0.5 to 10mm.	E6625662	160.40	161.20	0.80	2.14	3.24	1.25	85.00	0.66
		- THIN BEDDED CHERTY MUDSTONE FACIES: Consists of rhythmic intercalated	E6625663	161.20	162.00	0.80	0.36	2.17	1.25	59.80	0.17
		laminae of chert, carbonaceous mudstone and minor micrite. This facies contains	E6625664	162.00	162.60	0.60	3.19	7.66	1.25	294.00	0.42
		significant amounts of Zn and Pb sulphides.	E6625665	162.60	163.50	0.90	0.63	0.77	1.25	35.50	0.82
		- CHERTY MUDSTONE FACIES: Consists of a greyish black monotonous siliceous,	E6625666	163.50	164.10	0.60	0.51	0.51	1.25	20.80	1.01
		carbonaceous mudstone. It is most typically found overlying the thin bedded	E6625667	164.10	165.00	0.90	1.53	3.65	2.60	93.30	0.42
		calcareous mudstone facies.	E6625668	165.00	165.80	0.80	0.47	4.80	1.25	115.00	0.10
		- THIN BEDDED CALCAREOUS MUDSTONE FACIES: Consists of laminated	E6625669	165.80	166.40	0.60	1.88	5.54	2.70	150.00	0.34
		carbonaceous	E6625670	166.40	166.40	0.00	1.36	2.85	19.70	178.00	0.48
		mudstone containing 20-40% calcite, 40-55% quartz and 10-20% muscovite.	E6625671	166.40	167.40	1.00	0.02	0.17	1.25	3.50	0.14
		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.									

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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%
		<p>- <i>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.</i></p> <p>- <i>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.</i></p> <p>- <i>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.</i></p> <p>« 147.60- 148.50 Barren-trace limestone, weakly laminated »</p> <p>« 148.50- 150.90 Barren siliceous mudstone, dark grey, carbonaceous »</p> <p>« 150.90- 151.30 Barren calcareous limestone »</p> <p>« 151.30- 153.00 Siliceous, carbonaceous mudstone, highly sheared »</p> <p>« 153.00- 156.60 FLT Breccia: healed breccia, silicified rounded to sub-rounded clasts within less carbonaceous matrix, calcite-stockwork brecciation- intricate veinlet network »</p> <p>« 156.60- 156.90 High grade breccia, significant galena infill, silicified mudstone within calcite stockwork that cuts laminations »</p> <p>« 156.90- 158.30 High grade, siliceous and pale grey, well-defined laminations are frequently "blended", significant well-defined sulphide-enriched fluid escape structures, galena infill of extensional structures, grainy sphalerite</p>									

From (m)	To (m)	Rocktype & Description	Sample ID	From (m)	To (m)	Width (m)	Pb (%)	Zn (%)	Ag (ppm)	Cd (ppm)	Pb% / Zn%
		disseminated throughout »									
		« 158.30- 160.40 Moderate grade, silicified, very well defined laminations are intermittent and change from near-perpendicular to core axis to near-parallel to core axis, medium-dark grey-brown with pale grey intermittent laminations, significant pyrite overprinting »									
		« 160.40- 162.00 Low grade, siliceous mudstone, carbonaceous, dark grey-brown with poorly defined laminations »									
		« 162.00- 162.60 Moderate grade, siliceous mudstone, medium-dark grey-brown with pale grey sphaleritic-grained thick laminations »									
		« 162.60- 164.10 Barren limestone, significant micro-calcite-veinlets »									
		« 164.10- 166.40 High-moderate grade, carbonaceous, siliceous mudstone with intermittent high grade pale grey thick laminations/pseudobeds, locally tight-spaced very well defined laminations with well defiend micro fluid escape structures that offset thick galena veinlets »									
		« 166.40- 167.40 Trace-barren grade, very carbonaceous black mudstone, siliceous, very poorly defined laminations »									
<b>167.40</b>	<b>213.40</b>	<b>CCMS</b>	E6625672	167.40	168.40	1.00	0.01	0.04	1.25	1.25	0.27
		CCMS – Calcareous Mudstone	E6625673	168.40	169.40	1.00	0.12	0.62	1.25	21.50	0.20
		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 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 »,									
		« 167.40- 173.80 FLT: Significant gouge and graphitic broken core »									



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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%
		<p>◁ @ 180.70 S0 calcite lineations (dashed) and pyritic crenulated band 67° ▷</p> <p>◁ @ 187.20 S0 Bedding (S0) cut by calcite lineation (S1) which slightly offsets bedding 72-28° ▷</p>									
<b>213.40</b>	<b>222.40</b>	<b>FLT</b> Gouge and gg-matrix breccia, intense graphite followed by intact crackle brecciation by micro-calcite veinlet network									
<b>222.40</b>	<b>270.90</b>	<b>TRAN</b> TRAN – Transition Formation  Consists of laminated tan mudstone and minor intercalated light grey limestone. « lm mdst 1.00-10.00mm »,  « 222.40- 224.50 Calcite vein stockwork, thick calcite vein breccia »  ◁ @ 225.30 S0 bedding 27° ▷ ◁ @ 230.50 S0 bedding 43° ▷ ◁ @ 238.00 S0 bedding 32° ▷ ◁ @ 247.00 S0 bedding 49° ▷ ◁ @ 258.30 S0 bedding 48° ▷ ◁ @ 276.40 S0 bedding 28° ▷									
<b>270.90</b>	<b>300.00</b>	<b>CLST</b> CLST – Cambrian Limestone  Consists of 2 units. The first unit, Wavy Banded Limestone Formation, is divided into two informal members, based on the amount of argillaceous material in some beds. Both members display well-banded limestone. The upper member consists of intercalated light grey siliceous micrite and grey to tan laminated calcareous mudstone beds, displaying a chain-link structure. It appears wavy because of variable bedding thickness. Bedding is in general thinner than the bedding in the lower member, with micrite beds ranging from 1 to 5 cm thick, and showing rapid lateral variation. The lower member consists of intercalated microspar and micrite, and shows even bedding.									





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