

Hole No.: BRO-022	Depth: 303.00 m	Horizontal Length: 0.00 m	Project: 1710
Location Data:			
Property:	Selwyn Project	Claim Name:	DON 24
Mining District:	Selwyn Basin	Grant Number:	Y 64956
Province/Territory:	Yukon		
UTM Co-Ordinates & Altitude of Drill Hole Collar:			
UTM Easting:	485986.92 m	True Azimuth:	22.0 °
UTM Northing:	6929061.07 m	Hole Angle:	-60.0 °
Elevation (m):	1348.68 m	NTS Name:	No Title
		UTM Datum:	NAD 83
		UTM Grid Zone:	9
		NTS Number:	105I11
Grid Co-Ordinates of Drill Hole Collar:			
Grid Easting (m):	0.00 m	Grid Name:	HP 06
Grid Northing (m):	0.00 m	Grid Type:	100m
Grid Azimuth:	82.3 °		
Dimond Drilling Contract:			
Drilled By:	CYR-01	Date Drilling Start:	29-Jul-15
		Date Finish:	31-Aug-15
Diamond Drill Core:			
Logged By:	H. Grimson	Date Logging Start:	04-Aug-15
		Date Finish:	11-Aug-15
Legend for Core Logging Codes: PAX			
Core Size:	NQ3	Cemented:	No
Casing Depth:	7.50 m	Casing Pulled:	Yes
Water Depth:	0.00 m	Overburden Depth:	7.50 m
Level:		Section:	
		Drift:	

Selwyn Project

Diamond Drill Log

Survey Data for Hole

BRO-022

Hole Comments:

Wed, Jul 29 --- DS: Drilled from 42-81m (EOH). Survey at 81m. Tear down and move to set-up BRO-817 (BRO-022). NS: Set-up rig to be ready to drill in the morning.

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Thu, Jul 30 --- DS: Set casing and drilled down to 42m. Survey @21m, 51m. Change oil in drill. NS: Drilled from 42-129m. Test at 102m, good drilling. Current lithology unknown. Last observed BSSM down to 94.2m.

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Fri, Jul 31 --- DS: Drilled from 129-261. NS: Drilled down to 261m. Current lithology unknown as core still at drill. Last lithology observed ~195m in FLMD.

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Sat, Aug 01 --- DS: Drilled from 261-306m. Shut down in CCMS after intersecting ACTM from 272-290.9m and FLTING into CCMS. Pack up and ready for morning move to BRO-802/BRO-025.

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-60.0	22.0
21.00	-59.7	22.3
51.00	-58.9	23.2
102.00	-58.4	24.3
153.00	-58.2	24.5
201.00	-57.4	26.9
252.00	-57.0	27.5
303.00	-56.7	28.3

Selwyn Project Diamond Drill Log

Hole Number:
BRO-022

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	7.50	OVBR									
no recovery											
7.50	120.10	BSSM									
BSSM – Backside Siliceous Mudstone											
Devonian Siliceous Mudstone – Upper Chert Formation											
Greyish black laminated chert and siliceous mudstone. Randomly-oriented to bedding-parallel bioturbation is common in the bottom of the unit. « lm chrt 75.00-95.00% », « btrb 0.10-2.00cm »,											
Homogenous dark grey siliceous mudstone with frequent "FLMD" beds generally <30m, up to 4m											
« @ 28.80 dark grey chery band 48° »											
« 32.60- 33.00 healed qtz-calcite vein (historic infilled FLT?) »											
« @ 39.60 chert bands, broken elongated pyrite bands with calcite pressure shadows 42° »											
« @ 54.90 pyritic lineations 54° »											
« @ 72.20 narrow flaggy bed 44° »											
« @ 83.00 alligned flaggy texture 58° »											
« 87.00- 99.60 FLMD interval »											
« @ 95.40 flaggy texture 58° »											
« @ 106.00 flaggy texture 48° »											
120.10	199.80	FLMD									
FLMD – Flaggy Mudstone Formation											
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											

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		<p>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 »,</p> <p>◁ @ 121.30 flaggy texture 44° ▷</p> <p>« 130.80- 146.60 very bleached , sericite alteration »</p> <p>◁ @ 156.00 wispy FLMD bands 43° ▷</p> <p>◁ @ 165.40 poorly alligned flaggy texture 66° ▷</p>									
199.80	266.40	USMS									
		<p>USMS – Upper Siliceous Mudstone</p> <p>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% »,</p> <p>« 199.80- 210.40 homogenous carbonaceous mudstone, not banded, non graphitic, typical of upper USMS »</p> <p>◁ @ 213.20 pyritic lineations 53° ▷</p> <p>◁ @ 222.30 discontinuous chert bands, and ~parallel irregular pyrite blebs 38° ▷</p> <p>« 232.50-266.40 silicification common past this depth »</p> <p>« 235.30- 235.60 cemented graphitic breccia, fibrous graphite, reflective, cemented together (low cohesive strength), ± calcite infill matrix 29°»</p> <p>◁ @ 252.00 chert bands 39° ▷</p>									

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		« 255.20- 256.20 sheared silicified mudstone, lensoidal "clasts" (localized brecciation), graphitic open fractures »									
		« 257.70- 258.30 30-50% calcite veining with suspended sub-angular silicified mudstone clasts and large cubic pyrite clasts (late stage?) 38°»									
		« 264.70- 265.10 graphitic joint zone, <1cm average spacing 69°»									
		« 265.10- 265.40 50% qtz-calcite veining; broken, graphitic alignment »									
266.40	271.80	FLT	E5574860	266.40	268.00	1.60					
		This fault may be responsible for shortening "ACTM", which in this case is "sandwiched" by "FLTS" at both hanging and footwall ends.	E5574861	268.00	269.50	1.50					
			E5574862	269.50	271.00	1.50					
			E5574863	271.00	271.80	0.80					
		Healed microfractures and crackle breccia, micro-faults ±cemented gg; any original bedding or structure is obliterated; local preserved micritic limestone; graphitic alignment; trace mineralization detected with XRF machine.									
271.80	291.00	ACTM	E5574864	271.80	272.20	0.40					
		ACTM – Active Member	E5574865	272.20	273.30	1.10					
			E5574866	273.30	274.20	0.90					
		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.	E5574867	274.20	274.90	0.70					
			E5574868	274.90	275.50	0.60					
			E5574869	275.50	276.40	0.90					
			E5574870	276.40	277.30	0.90					
			E5574871	276.40	277.30	0.90					
			E5574872	277.30	278.00	0.70					
			E5574873	278.00	278.60	0.60					
		=====	E5574874	278.60	279.30	0.70					
		The ACTM has 8 different facies:	E5574875	279.30	280.00	0.70					
		=====	E5574876	280.00	281.20	1.20					
		- GREY CHERT FACIES: Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.	E5574877	281.20	282.10	0.90					
			E5574878	282.10	282.90	0.80					

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<p>- <i>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.</i></p> <p>- <i>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.</i></p> <p>- <i>CHERTY MUDSTONE FACIES: Consists of a greyish black monotonous siliceous, carbonaceous mudstone. It is most typically found overlying the thin bedded calcareous mudstone facies.</i></p> <p>- <i>THIN BEDDED CALCAREOUS MUDSTONE FACIES: 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.</i></p> <p>- <i>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.</i></p> <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</i></p>			E5574879	282.90	283.60	0.70					
			E5574880	283.60	283.60	0.00					
			E5574881	283.60	284.50	0.90					
			E5574882	284.50	285.40	0.90					
			E5574883	285.40	286.40	1.00					
			E5574884	286.40	287.40	1.00					
			E5574885	287.40	288.40	1.00					
			E5574886	288.40	289.00	0.60					
			E5574887	289.00	290.00	1.00					
			E5574888	290.00	290.70	0.70					
			E5574889	290.70	291.00	0.30					

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		<p>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>« 271.80- 272.20 MODERATE GRADE; >50% calcite veining with high grade mineralization hosted by fine grained disseminated sphalerite-zinc in pale grey siliceous mudstone »</p> <p>« 272.20- 273.30 BARREN, massive medium-pale limestone »</p> <p>« 273.30- 274.20 TRACE grade; intercalated limestone (massive, pale-medium grey) and massive calcareous mudstone, localized shearing and isolated brecciation »</p> <p>« 274.20- 275.50 MODERATE grade; mudstone and minor limestone, moderately defined laminations (locally well defined) with metallic fluid escape structures that offset laminations; extensional calcite hairline fracture infill »</p> <p>« 275.50- 277.30 TRACE grade; limestone, massive to weakly laminated, localized sheath folding »</p> <p>« 277.30- 278.60 MODERATE grade; medium grey, moderately laminated to massive, parallel laminations, frequent galena infill (secondary), graphitic alignment, very weakly calcareous »</p> <p>« 278.60- 279.30 TRACE; limestone, massive±weakly defined laminations, minor calcite veining »</p>									

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		« 279.30- 280.00 HIGH grade; interbedded limestone and weakly calcareous mudstone with fine grained disseminated mineralization; local bands and fluid escape structures with metallic lustre »									
		« 280.00- 281.20 TRACE-LOW grade; limestone, laminated and massive regions, graphitic allignment exposed in some open fractures, galena flecks/sparkles »									
		« 281.20- 282.10 MODERATE grade; homogenous carbonaceuos mudstone (low grade) with high grade pale-grey intervals, non-weakly calcareous, graphitic mirror planes in exposed open fractures »									
		« 282.10- 283.60 TRACE-LOW grade limestone, massive±weak laminations, ~20cm calcite veining, disseminated pyrite @ end of interval »									
		« 283.60- 284.50 LOW-HIGH grade; very graphitic mudstone with mirror-plane open fractures, variable mineralization; high grade hosted by dark carbonaceous mudstone with medium grey thick (weakly defined) laminations with blocky offset »									
		« 284.50- 285.40 LOW-TRACE grade; limestone, massive ±very faint laminations »									
		« 285.40- 290.70 TRACE-LOW grade; intercalated limestone and mudstone with (dominantly) unmineralized deformed laminations, very graphitic open fractures with slickensides ($\alpha=33^\circ$); resembles USMS (typical of lower ACTM generally before encountering Basal limestone) »									
		« 290.70- 291.00 BARREN; broken rubble zone, graphitic carbonaceous rubble »									
291.00	295.10	FLT	E5574890	291.00	291.00	0.00					
		Mixed fault zone; ~1m of carbonaceous gg, ~0.7m of qtz-calcite veining with unknown green mineral; broken/rubble graphitic mudstone	E5574891	291.00	292.90	1.90					
			E5574892	292.90	294.00	1.10					
			E5574893	294.00	295.00	1.00					



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