

Hole No.: BRO-031	Depth: 304.00 m	Horizontal Length: 0.00 m	Project: 1710
Location Data:			
Property:	Selwyn Project	Claim Name:	HP 11
Mining District:	Selwyn Basin	Grant Number:	YB46391
Province/Territory:	Yukon		
UTM Co-Ordinates & Altitude of Drill Hole Collar:			
UTM Easting:	486647.91 m	True Azimuth:	12.0 °
UTM Northing:	6928930.85 m	Hole Angle:	-70.0 °
Elevation (m):	1570.88 m	NTS Name:	Placer Creek
		NTS Number:	105I06
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:	70.0 °		
Dimond Drilling Contract:			
Drilled By:	NL-04	Date Drilling Start:	09-Aug-15
		Date Finish:	13-Aug-15
Diamond Drill Core:			
Logged By:	EH	Date Logging Start:	23-Aug-15
		Date Finish:	24-Aug-15
Legend for Core Logging Codes: PAX			
Core Size:	NQ3	Cemented:	No
Casing Depth:	14.80 m	Casing Pulled:	Yes
Water Depth:	0.00 m	Overburden Depth:	14.80 m
Level:	Section:		Drift:

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Diamond Drill Log

Survey Data for Hole

BRO-031

Hole Comments:

Sun, Aug 09 --- DS: Drilled 31m down to total depth of 72.0m on BRO-027. Shut down in CCMS. Intersected ACTM from 20.6-51.0m. Tore down, packed up and moved to BRO-902 to drill BRO-031. Move took right until end of pilots duty day. NS: Finished setting up, took a long time to set an anchor. Put in 9m of casing, drilled to 18m, pulled out and reset casing to 18m, drilled to 27m. Current lithology unknown as core is still at drill.

Mon, Aug 10 --- DS: Changed out drill head due to weeping seals. Changed bit, reamed cave. Drilled 36m down to a depth of 63m. NS: Poor recovery most of the shift, driller tried 'everything he could' with poor results. Really bad between 93-100m. Drilled 42m down to 105m. Used one linseed soap. Current lithology unknown as core is still at drill but will have it brought to camp as soon as possible in truck, as this could be same fault we have been hitting in holes to the north.

Tue, Aug 11 --- DS: Normal drilling, drilled 60m down to depth of 165m. No issues. NS: All good, pulled to grease and changed the bit, drilled 45m down to 210m depth. From drill site visit this morning, it appears that during nightshift the hole had faulted into CCMS, then faulted back up into a silicified mudstone resembling USMS. Will perform another visit later this afternoon, and will have better description once core is brought back down to camp.

Wed, Aug 12 --- DS: Normal drilling, drilled 45m down to 255m total depth. Had to send more rods to drill as hole has gone deeper than target depth. NS: Pulled back to grease rods, performed reflex tests at 228m, 279m, blocky and short runs all night, bit is almost gone. Drilled 36m down to 291m. ACTM was intersected from 226m to 249m (still in ACTM) when core was received last night, weather is too foggy to sling in, will perform drill visit at lunch time today. Have not seen last 40m of core at this point.

Thu, Aug 13 --- DS: Drilled 13m down to to 304.0m depth. Flew up to do core check mid morning (could not fly core down all morning due to fog) and shutdown at 304.0m in CCMS. Packed up and got drill ready to move. Lost 1 piece of casing and 1 casing shoe downhole. NS: Standby, no pad ready to move to.

Fri, Aug 14 ---

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-70.0	12.0
24.00	-70.5	12.4
75.00	-71.7	12.9
123.00	-71.2	14.4
177.00	-71.0	17.7
228.00	-71.1	20.0
279.00	-71.1	20.7
304.00	-70.9	20.9

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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%
0.00	14.80	OVBR									
<p>« 0.00- 14.40 No core was recovered »</p> <p>« 14.40- 14.80 Conglomerate with some barite alteration - possibly autochthonous pebbles »</p> <p>« 14.80- 63.60 Oxidization zone of iron oxides due to broken ground by faulting »</p>											
14.80	136.40	FLMD									
<p>FLMD – Flaggy Mudstone Formation</p> <p>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 »,</p> <p>« 14.80- 120.00 A shear zone containing FLT systems comprises strongly deformed bioturbations; ductile and brittle deformations; open dilational fractures filled with barite were noted; manganese is common in places, possibly indicating a pelagic deposition; shear sensed echelon arrays, sinistral offsets, and strong barite alteration are present in places »</p> <p>« 87.00- 101.00 FLT with core loss; fault gouge; no cohesive strength; possible slickenside $\alpha=48^\circ$ TCA, which may be induced by a shear zone with $\alpha=18^\circ$ TCA »</p> <p>« 106.00- 116.10 FLT zone breccia with abundant calcite stockworks, slickenside $\alpha=31^\circ$ TCA; dilational faulting follows compressional shearing »</p> <p>« @ 123.80 Calcite pressure shadowed pyrite porphyroblasts »</p> <p>« @ 127.30 Echelon calcite arrays »</p>											
136.40	224.90	USMS	E5575460	223.60	224.10	0.50					
USMS – Upper Siliceous Mudstone			E5575461	224.10	224.90	0.80					

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		<p><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% »,</i></p> <p><i>« @ 136.40 Between FLMD and USMS a calcite breccia is present without Zn mineralization »</i></p> <p><i>« 154.30- 155.30 Structural melange of sparry limestone and black mudstone mixed together »</i></p> <p><i>« 170.00- 176.40 FLT damage zone in a high strain zone, with abundant calcite shadowed pyrite porphyroblasts; offset boudinages; localized mylonitization »</i></p> <p><i>« 176.40- 179.40 FLT shear zone; a=32° TCA; mylonitized; anastomosed/stockworked calcite veins, low coheisve strength; minor fault gouge »</i></p> <p><i>« 179.40- 224.90 FLT damage zone in high strain zone comprising abundant calcite shadowed pyrite porphyroblasts; calcite pyrite rimmed limestone nodules; sinistral shear sensed offset; stretched boudinages and L-tectonite »</i></p> <p><i>« 233.20- 235.50 FLT with fault gouge and no cohesive strength; rubble; possible a=42° TCA; recrystallization; melange mylonitization in places associated with pyrite porphyroblasts in which there is a crackle « FLT » breccia of micritic limestone; dilational opening and drusy pyrite calcite crystals; clast supported without visible Zn mineralization »</i></p>									
224.90	269.10	ACTM	E5575462	224.90	225.90	1.00					

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<i>ACTM – Active Member</i>			E5575463	225.90	226.90	1.00					
			E5575464	226.90	227.50	0.60					
			E5575465	227.50	228.30	0.80					
			E5575466	228.30	228.90	0.60					
			E5575467	228.90	229.80	0.90					
			E5575468	229.80	230.90	1.10					
			E5575469	230.90	231.60	0.70					
			E5575470	231.60	232.20	0.60					
			E5575471	231.60	232.20	0.60					
			E5575472	232.20	233.20	1.00					
			E5575473	233.20	234.70	1.50					
			E5575474	234.70	235.30	0.60					
			E5575475	235.30	235.90	0.60					
			E5575476	235.90	236.50	0.60					
			E5575477	236.50	237.00	0.50					
			E5575478	237.00	237.60	0.60					
			E5575479	237.60	238.60	1.00					
			E5575480	238.60	238.60	0.00					
			E5575481	238.60	239.50	0.90					
			E5575482	239.50	240.30	0.80					
			E5575483	240.30	240.80	0.50					
			E5575484	240.80	241.80	1.00					
			E5575485	241.80	242.80	1.00					
			E5575486	242.80	243.80	1.00					
			E5575487	243.80	244.80	1.00					
			E5575488	244.80	245.80	1.00					
			E5575489	245.80	246.40	0.60					
			E5575490	246.40	246.40	0.00					
			E5575491	246.40	247.00	0.60					
			E5575492	247.00	247.90	0.90					
			E5575493	247.90	249.00	1.10					
			E5575494	249.00	250.00	1.00					
			E5575495	250.00	250.80	0.80					

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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>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 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>« 224.90- 226.90 TRACE TO LOW GRADE. Massive black carbonaceous mudstone mixed with sparry limestone, locally veined, moderately laminated »</p> <p>« 226.90- 228.30 LOW TO MODERATE GRADE. Micro-folded, foliated, silica flooded, finely laminated mudstone and sparry limestone »</p> <p>« 228.30- 228.90 TRACE TO LOW GRADE. Locally laminated massive mudstone, foliated »</p> <p>« 228.90- 229.80 TRACE. Weakly laminated graded sparry limestone »</p>			E5575496	250.80	251.40	0.60					
			E5575497	251.40	252.00	0.60					
			E5575498	252.00	252.60	0.60					
			E5575499	252.60	253.60	1.00					
			E5575500	253.60	254.60	1.00					
			E5575501	253.60	254.60	1.00					
			E5575502	254.60	255.00	0.40					
			E5575503	255.00	257.30	2.30					
			E5575504	257.30	258.40	1.10					
			E5575505	258.40	259.40	1.00					
			E5575506	259.40	260.40	1.00					
			E5575507	260.40	260.70	0.30					
			E5575508	260.70	261.60	0.90					
			E5575509	261.60	262.20	0.60					
			E5575610	262.20	262.20	0.00					
			E5575611	262.20	263.10	0.90					
			E5575612	263.10	264.00	0.90					
			E5575613	264.00	265.00	1.00					
			E5575614	265.00	265.90	0.90					
			E5575615	265.90	266.90	1.00					
			E5575616	266.90	267.90	1.00					
			E5575617	267.90	269.10	1.20					

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		« 229.80- 230.90 TRACE. Highly silicified moderately laminated sparry limestone »									
		« 230.90- 232.20 TRACE TO LOW GRADE. Massive graded sparry limestone with localized Zn laminae »									
		« 232.20- 233.20 TRACE TO LOW GRADE. FLT with core loss; fault gouge; no coheisve strength; rubble; 0.2% Cu by Niton; barite altered; broken carbonaceous mudstone »									
		« 233.20- 234.70 TRACE. Healed crackle breccia with micritic limestone fragments cemented by open-spaced calcite vein with drusy pyrite crystals, some core loss »									
		« 234.70- 235.30 LOW GRADE. Silica flooded, foliated sparry limestone with some disseminated Zn as well as Zn laminae »									
		« 235.30- 235.90 TRACE. Massive sparry limestone with some Zn at the lower end of the interval »									
		« 235.90- 237.00 MODERATE TO HIGH GRADE. Beige colored, silica flooded micritic limestone, Sedex Zn mineralized, with 60 cm long water escape structures filled with sphalerite and minor galena »									
		« 237.00- 237.60 LOW TO MODERATE GRADE. A 8cm Sedex Zn laminae in massive sparry limestone »									
		« 237.60- 238.60 HIGH GRADE. Silica flooded, finely laminated black carbonaceous mudstone mixed with sparry limestone »									
		« 238.60- 239.50 LOW GRADE. Massive sparry limestone with localized Sedex Zn laminae »									
		« 239.50- 240.30 MODERATE GRADE. Silica flooded, Sedex Zn 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%
		<p><i>mudstone twisted with sparry limestone »</i></p> <p>« 240.30- 240.80 LOW GRADE. Silica flooded graded sparry limestone with wide-spaced Zn laminae »</p> <p>« 240.80- 244.80 LOW TO MODERATE GRADE. Strongly silicified moderately laminated mudstone and sparry limestone »</p> <p>« 244.80- 245.80 TRACE TO LOW GRADE. Massive sparry limestone with Zn highs »</p> <p>« 245.80- 247.00 MODERTE GRADE. Silica flooded, laminated deformed Sedex Zn mineralized mudstone »</p> <p>« 247.00- 247.90 TRACE. A mix of mudstone and sparry limestone, massvie »</p> <p>« 247.90- 250.00 TRACE. Massive USMS style lithology without much visible Zn »</p> <p>« 250.00- 251.40 LOW TO MODERATE GRADE. Siliciifed laminated sparry limestone and carbonaceous mudstone with wide-spced Sedex laminae in sparry limestone »</p> <p>« 251.40- 252.00 LOW GRADE. Wide spaced Sedex Zn laminae in siliciifed sparry limestone »</p> <p>« 252.00- 253.60 TRACE. Massive brecciated micritic limestone »</p> <p>« 253.60- 255.00 TRACE. Silica flooded, with abundant stylolites in micritic limestone, locally brecciated, FLT damage zone »</p> <p>« 255.00- 257.30 TRACE. FLT with fault gouge; rubble; no cohesive strength; $\alpha=42^\circ$ TCA; abundant graphitic steplike slickensides; it is post mineralization structure »</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%
<p>« 257.30- 259.40 TRACE TO LOW GRADE. Massive graded sparry limestone with wide-spaced Zn laminae, with deformed stylolites »</p> <p>« 259.40- 260.40 LOW GRADE. Silicified tectonic melange, foliated, veined, with deformed laminations »</p> <p>« 260.40- 265.00 TRACE. Massive USMS style lithology without any visible mineralization of Zn and Pb »</p> <p>« 265.00- 265.90 LOW GRADE. Highly strained graphitic mudstone melange mylonitized, locally Zn highs; it is a fault damage zone »</p> <p>« 265.90- 269.10 BARREN. Foliated brecciated micritic basal limestone without visible lamination, nor visible alteration, nor visible mineralization; @contact to CCMS 1 15 cm long recrystallized breccia »</p>											
269.10	304.00	CCMS	E5575618	269.10	270.00	0.90					
CCMS – Calcareous Mudstone			E5575619	270.00	271.00	1.00					
			E5575620	271.00	271.00	0.00					
<p>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).</p> <p>« lm ca 5.00-10.00mm », « nodules py -3.00% 2.00-20.00mm »,</p> <p>« 289.10- 290.00 FLT with fault gouge, rubble, no cohesive strength; a=36° TCA »</p> <p>« @ 305.50 Pyrite bands a=35° TCA »</p> <p>« @ 271.00 Slickenside a=23° TCA »</p>											



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304.00	304.00	EOH									