

Hole No.: DNE-129	Depth: 156.00 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:	478832.29 m	True Azimuth:	213.0 °
UTM Northing:	6933248.57 m	Hole Angle:	-84.0 °
Elevation (m):	1167.43 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:	273.0 °		
Dimond Drilling Contract:			
Drilled By:	NL-01	Date Drilling Start:	26-Oct-14
		Date Finish:	31-Oct-14
Diamond Drill Core:			
Logged By:	E. Hou	Date Logging Start:	30-Oct-14
		Date Finish:	01-Nov-14
Legend for Core Logging Codes: PAX			
Core Size:	PQ	Cemented:	No
Casing Depth:	28.30 m	Casing Pulled:	Yes
Water Depth:	0.00 m	Overburden Depth:	28.30 m
Level:		Section:	
		Drift:	

Selwyn Project

Diamond Drill Log

Survey Data for Hole

DNE-129

Hole Comments:

Mon, Oct 27 --- DS: Mobilised rig, set up water line and finished off setting up rig. NS: Started up supply pump, water running. Casing to 28.5m.

Tue, Oct 28 --- DS: Issues with water pump, repaired for 8 hrs. Started drilling. NS: Waterlines froze, repaired pump again. Difficult drilling, lots of sand. Reamed through series of faults. Reached 60m depth.

Wed, Oct 29 --- DS: Drill repairs and bit change at 62.2m. Maintenance on SWS monitoring well, fuel, oil etc... Replaced frozen water lines at both drills. NS: Lots of issues with frozen water lines and pump. Bit change. Reached 120m depth. Intercepted ACTM from to 120.4m.

Thu, Oct 30 --- DS: Shift change, therefore only half day shift. Additional maintenance on supply pump and hose line to stop from freezing. NS: Survey completed, pulled rods due to tubes stuck. Lost circulation at 130m, used G-stop, #1 and linseed. Intercepted LC of ACTM at 132.8m. Hole shut down in morning at 150m, in CCMS.

Fri, Oct 31 --- DS: Shut hole down in morning, 2 surveys completed on way back out. Hooked onto casing, but became stuck. Tried to free casing for rest of shift. NS: Tried to retrieve casing, for 2 more hours but could only free 3m worth. 25.5m and shoe left in hole. Tore rig down, drill ready to move.

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-84.0	213.0
36.00	-83.7	215.4
50.00	-83.4	213.7
100.00	-82.5	216.5
150.00	-82.6	221.4

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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	28.30	OVBR									
<p>« 0.00- 28.00 Overburden but without any core recovered, therefore Quaternary geology is referred to the Sonic Program in this area»</p> <p>« 28.00- 28.30 Overburden with several pieces of sub-angular pebbles and cobbles; one piece of quartz-vein cobble with iron oxides; oxidization zone terminates at the depth of 28.3 m»</p>											
28.30	75.00	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 , 1m chrt -20.00% », « cg xtl sph crns ca 5.00-20.00cm », « bed chrt 10.00-15.00% »,</p> <p>« 28.30- 33.00 FLT, a fault damage zone with fault gouge, and low to no cohesiveness; It is in a high strain zone dominated by S1 domain, with prevailing cleavages of $\alpha=55^\circ$ TCA, abundant graphite, especially along C-bands and then S-fabrics; both brittle and ductile deformations are present, and shear sense deformation is obvious »</p> <p>« 33.00- 45.00 FLT, a fault core zone with abundant fault gouge and no cohesiveness; It is in a S1-controlled high strain zone characterized by highly ductile and brittle deformations; There is greenish fine grained clay mineral possibly illite coated on fracture surfaces from the depth interval of 43 to 45 meters »</p> <p>« 45.00- 51.40 FLT, a fault damage zone with some mechanical breaks, characterized by ductile and brittle deformations in limestone »</p> <p>« 51.40- 53.00 FLT, a fault core zone with fault gouge and no cohesiveness as well as abundant graphite. It is in a high strain zone of</p>											

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		<p><i>ductile and brittle deformations »</i></p> <p>« 54.50- 75.00 FLT zone possibly consisting of several fault systems, with fault gouge in black mudstone, and calcite veined/stockworked breccia in limestone. S1 seems to control the fundamental frame of deformation. The highest Zn/Pb by Niton is 0.85% Zn/0.17% Pb »</p>									
75.00	135.30	ACTM									
		<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> <p>=====</p> <p><i>The ACTM has 8 different facies:</i></p> <p>=====</p> <p>- <i>GREY CHERT FACIES: Consists of laminated medium light grey to medium dark grey chert. Mineralization: 95-99% quartz and up to 5% secondary calcite.</i></p> <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</i></p>									

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		<p>significant amounts of Zn and Pb sulphides.</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 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>« 75.00- 75.9 HIGH GRADE, with Zn%/Pb% by Niton: 12.0/0.85; 9.6/1.2; 26.5/3.3, core loss, faulted, broken silicified graphitic mudstone »</p>									

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		« 75.90- 79.10 TRACE, with Zn%/Pb% by Niton: 0.33/0.19; 0.12/0.09; 0.27/0.11, silicified, pyritized mudstone intercalated with sparry limestone »									
		« 79.10- 81.10 HIGH GRADE, with Zn%/Pb% by Niton: 9.3/1.5; 10.2/2.0; 14.9/2.21, silicified, sedex Zn mineralized (syndimentary mineralization), deformed sparry limestone overprinted by sphalerite and galena »									
		« 81.10- 82.50 TRACE, with Zn%/Pb% by Niton: 0.16/0.01; 0.22/0.02; 0.35/0.03, weakly silicified sparry-textured limestone »									
		« 82.50- 83.40 LOW GRADE, with Zn%/Pb% by Niton: 0.39/1.2; 1.5/0.4; 1.7/1.8, silicified, sedex-type Zn Pb mineralized sparry limestone without much Zn or Pb overprinting »									
		« 83.40- 84.00 HIGH GRADE, with Zn%/Pb% by Niton: 31.5/7.2; 14.6/2.9; 12.2/0.7, extremely silicified, sedex-type Zn Pb mineralized sparry limestone overprinted by sphalerite and galena »									
		« 84.00- 84.40 TRACE, with Zn%/Pb% by Niton: 0.1/0.05; 0.27/0.0; 0.61/0.05, moderately to weakly silicified sparry limestone lacking in lamination and Zn mineralization »									
		« 84.40- 85.70 HIGH GRADE, with Zn%/Pb% by Niton: 6.9/1.4; 15.5/0.7; 7.6/3.8; 14.1/3.8, silicified, well laminated, sedex Zn-Pb mineralized sparry limestone overprinted by sphalerite and galena »									
		« 85.70- 86.50 MODERATE GRADE, with Zn%/Pb% by Niton: 2.6/0.9; 2.0/7.3; 1.4/0.4, silicified sparry limestone without much sphalerite overprinting, locally with galena veinlets»									
		« 86.50- 87.00 HIGH GRADE, with Zn%/Pb% by Niton: 6.8/0.5; 15.3/0.5; 4.8/0.4, silicified, sedex Zn-Pb mineralized laminated sparry limestone»									

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		« 87.00- 90.00 MODERATE GRADE, with Zn%/Pb% by Niton: 4.0/0.0; 4.7/1.0; 4.1/1.1; 5.0/0.2, FLT breccia of silicified, sedex Zn-Pb mineralized, laminated sparry limestone with localized galena overprinting »									
		« 90.00- 91.50 TRACE, with Zn%/Pb% by Niton: 0.4/0.1; 0.0/0.0; 0.04/0.0, stylolite sparry limestone lacking in silicification and minralization »									
		« 91.50- 93.00 BARREN, with Zn%/Pb% by Niton: 0.14/0.0; 0.0/0.0, faulted graphitic mudstone with some limestone but without much mineralization »									
		« 93.00- 96.50 BARREN TO TRACE, with Zn%/Pb% by Niton: 0.0/0.0, sparry limestone with localized barite calcite breccia, and abundant calcite crystals in vuggy fractures; for C-S fabrics: C-band $\alpha=0^{\circ}$ TCA and S-fabrics $\alpha=60^{\circ}$ TCA »									
		« 96.50- 98.10 BARREN TO TRACE, with Zn%/Pb% by Niton: shear sense deformed limestone and mudstone with prevailing cleavages of $\alpha=48^{\circ}$ TCA »									
		« 98.10- 98.50 TRACE TO BARREN, with Zn%/Pb% by Niton: 0.03 to 0.05/0.0, FLT, black fault gouge without visible Zn mineralization; possible slickenside $\alpha=48^{\circ}$ TCA »									
		« 98.50- 100.00 BARREN with Zn%/Pb% by Niton: 0.0/0.0; calcite veined, brecciated limestone, vuggy, with drusy calcite crystals in openings; brittle deformation is dominated»									
		« 100.00- 103.50 TRACE, with Zn%/Pb% by Niton: 0.0/0.0, a FLT damage zone in S1 domain of $\alpha=48^{\circ}$ TCA, graphitic slickensides, low cohesiveness and fault gouge as well as shear sense deformation »									
		« 103.50- 104.00 TRACE, with Zn%/Pb% by Niton: 0.8/0.1; 0.4/0.1; 0.48/0.1, silicified breccia, clast-supported of polymictic fragments cemented by calcite »									

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		<p>« 104.00- 111.40 HIGH GRADE, with Zn%/Pb% by Niton: 4.3/1.9; 7.6/4.0; 9.2/2.0; 5.6/1.1; 4.1/0.12; 14.1/0.8; 8.0/0.6; 9.8/2.3; 5.3/2.3; 18.6/1.3; 7.4/0.2; 9.6/0.9; 5.3/0.3, locally brecciated, silicified, sedex type Zn mineralized sparry limestone, deformed, locally with water escape structures, overprinted by sphalerite and galena, cut by shear sensed calcite veins and veinlets; echelon calcite arrays are present; most galena is as stringers; syndimentary sphalerite is finer than the overprinting sphalerite in terms of grain size »</p> <p>« 111.40- 114.40 MODERATE GRADE, with Zn%/Pb% by Niton: 4.1/1.4; 8.4/0.5; 2.7/0.0; 1.1/0.1; 6.8/1.2; 4.5/0.1; 2.5/0.2; 3.1/0.4, moderately laminated, silicified sparry limestone without much sphalerite overprinting »</p> <p>« 114.40- 115.50 LOW GRADE, with Zn%/Pb% by Niton: 1.3/0.2; 4.5/0.3; 1.1/0.1; 0.6/0.1; 0.2/0.1, silicified limestone lacking in sedex and overprinting Zn mineralization »</p> <p>« 115.50- 116.20 MODERATE GRADE, with Zn%/Pb% by Niton: 5.2/0.3; 5.3/0.3; 2.1/0.2, moderately silicified sparry limestone, moderately laminated, lacking in overprinting Zn mineralization»</p> <p>« 116.20- 118.60 TRACE, with Zn%/Pb% by Niton: 0.3/0.1; 0.3/0.1; 0.0/0.0; 0.0/0.0, not- to weakly silicified, laminated sparry textured limestone »</p> <p>« 118.60- 119.60 BARREN TO TRACE, FLT with some fault gouge, low cohesiveness, in S1 domain, faulted, broken siliceous, graphitic, barite-bearing mudstone completely lacking in laminations and mineralization »</p> <p>« 119.60- 120.00 TRACE, not silicified saprry limestone in a « FLT » zone »</p> <p>« 120.00- 122.70 TRACE, not silicified, deformed, poorly laminated sparry limestone »</p>									

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		<p>« 122.70- 123.60 BARREN, barite breccia of sparry limestone, vuggy, large crystals of barite without much Zn in it »</p> <p>« 123.60- 128.40 BARREN, graphitic mudstone locally with 0.42% Zn by Niton, locally extremely graphitic, a « FLT » starts from 124.5m and ends to 127.8m »</p> <p>« 128.40- 132.60 BARREN, basal micritic limestone veined by calcite/asbestos, shear sense deformed with S-C fabrics »</p> <p>« 132.60- 135.30 BARREN TO TRACE, calcareous mudstone with laminated micritic limestone as the end indicator of ACTM »</p>									
135.30	156.00	CCMS									
		<p>CCMS – Calcareous Mudstone</p> <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>« 135.80- 136.20 FLT, a fault damage zone with prevailing cleavages (F-fabrics) of $\alpha=30^\circ$ TCA with C-band $\alpha=0^\circ$ TCA »</p> <p>« 136.20- 139.40 FLT with fault gouge in S1 domain, possible slickenside $\alpha=23^\circ$ TCA, with moderate calcite veining, brittle deformation, vuggy texture and drusy calcite crystals in limestone »</p> <p>« 144.30- 148.20 FLT with fault gouge, low cohesiveness, brittle deformation dominates »</p>									



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