

Hole No.: DNE-114	Depth: 339.00 m	Horizontal Length: 0.00 m	Project: 1710
Location Data:			
Property:	Selwyn Project	Claim Name:	NOD 10
Mining District:	Selwyn Basin	Grant Number:	YB49374
Province/Territory:	Yukon		
UTM Co-Ordinates & Altitude of Drill Hole Collar:			
UTM Easting:	479382.14 m	True Azimuth:	41.0 °
UTM Northing:	6933230.96 m	Hole Angle:	-68.0 °
Elevation (m):	1146.51 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:	101.0 °		
Dimond Drilling Contract:			
Drilled By:	NL-01	Date Drilling Start:	19-Jun-14
		Date Finish:	27-Jun-14
Diamond Drill Core:			
Logged By:	E. Hou	Date Logging Start:	24-Jun-14
		Date Finish:	28-Jun-14
Legend for Core Logging Codes: PAX			
Core Size:	HQ3	Cemented:	No
Casing Depth:	5.50 m	Casing Pulled:	Yes
Water Depth:	0.00 m	Overburden Depth:	5.50 m
Level:		Section:	
		Drift:	

Selwyn Project

Diamond Drill Log

Survey Data for Hole

DNE-114

Hole Comments:

Fri, Jun 20 --- DS: Relocated drill to Geotech hole DNE-114 (Target DNE-SRK-02) and placed on standby; continued cementing for whole day on DNE-113. NS: Cementing till 11pm at DNE-113. Started drilling DNE-114, 12m casing.

Sat, Jun 21 --- DS: Finished cementing hole DNE-113. DNE-114 lost shoe, had to pull out and re-start hole

Sun, Jun 22 --- DS: Reached 45m dept with PQ, replaced bit at 43m, drilled bk down with NQ, pulled out and replaced back to PQ. NS: Very sandy conditions between 45-58.5m, slow drilling. Reached 60m depth.

Mon, Jun 23 --- DS: Slow drilling, reached 102m by reaming. NS: Drilled up to 132m, very blocky. Flushed hole ready for Packer test in morning, on standby 3hrs.

Tue, Jun 24 --- DS: 1 hour wait for Schlumberger. 10 hours standby for packer and airlift test. 1 hour pulling out BQ rods and put HQ rods back down. NS: Drilled 48m down to 180m, blocky all night long, used 1 #1 mud.

Wed, Jun 25 --- DS: Drilled 42m down to 222m. 4 hours standby for packer test (7-11am). NS: drilled to 231m, wash hole and wait for Schlumberger (2 hours), packer test - 3 hours. Drilled to 256m in what looks like BSSM?.

Thu, Jun 26 --- DS: Drilled 33m. Faulted rock for most of the shift. Start flushing the hole in the late afternoon. Used 1 pail #1. NS: Flushing hole, packer test and airlift test. Resume drilling @ 3:45 am, down to 285m at end of shift.

Fri, Jun 27 --- DS: Drilled 21m down to 306m. Pull and lower rods for bit change. Several intersections required reaming; blocky. Used 1 pail #1, 1 torque master, 1 HQ bit. NS: Drilled 21 m down to 327m. Wash hole 2 hours, condition hole 1 hour. Geos to assess core at end of shift.

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-68.0	41.0
69.00	-68.2	42.4
99.00	-68.8	43.4
147.00	-68.4	45.0
201.00	-68.5	47.6
249.00	-68.3	49.2
300.00	-67.7	48.5
339.00	-68.6	52.9

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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	57.00	OVBR									
<p>« 0.00- 5.50 100% core loss - no recovery »</p> <p>« 5.50- 12.20 Elluvial sediments of definitely weathering product »</p> <p>« 12.20- 57.00 Gravels and rubble mixture with quite good sorting, rounded and sub-rounded »</p>											
57.00	81.60	USMS									
<p><i>USMS – Upper Siliceous Mudstone</i></p> <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>« 57.00- 63.20 Broken zone of fracturing and faulting, controlled by foliation of 20 degrees TCA, with less fault gouge, « clay » and calcite coated slickenside »</i></p> <p><i>« 63.20- 65.10 Fault gouge breccia with shear foliation sense, graphitic slickenside, and calcite cementing/veining »</i></p> <p><i>« 65.10- 86.60 A large fault fracture zone dominated by dilational features and vuggy crystal growth. There are two sets of fractures: (1) @ 0 degrees TCA and (2) @ 26 degrees TCA with graphitic slickenside »</i></p>											
81.60	82.80	FLT									
<p><i>A FLT zone dominated by fault gouge breccia with shear and mylonitization sense, locally with carbonate cemented breccia and graphitic slickenside</i></p>											
82.80	223.00	BSSM									
<p><i>BSSM – Backside Siliceous Mudstone</i></p>											

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		<p><i>Devonian Siliceous Mudstone – Upper Chert Formation</i></p> <p><i>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 »,</i></p> <p><i>« 83.80- 84.30 Broken zone associated with a nearby fault system, forming a damage zone »</i></p> <p><i>« 88.20- 90.30 Fractures and foliations 0 degrees TCA controlled faulting system, with irregular cubic-like fragments with graphitic mirror like slickenside and localized fault gouge »</i></p> <p><i>« 92.60- 93.80 Broken zone, angular blocky fragments, without much fault gouge »</i></p> <p><i>« 93.80- 94.90 Strongly broken zone with irregular slaty fragments of brittle-broken cubic-like fragments some pencil-like prismatic »</i></p> <p><i>« 94.20- 96.20 Fault gouge breccia zone, strongly broken, irregular fragments, graphitic slickenside »</i></p> <p><i>« 96.20- 98.80 Broken zone controlled by 0 degrees TCA foliations and fractures, graphitic wavy slickenside »</i></p> <p><i>« 101.50- 105.60 Broken zone without much fault gouge, cubic-like fragments with stair-like slickenside »</i></p> <p><i>« 105.60- 106.90 FLT with shear foliation mylonitization sense, with abundant calcite, graphitic stair-like slickenside, nearly parallel to core axial»</i></p> <p><i>« 106.90- 109.10 Slightly broken zone with big angular fragments without much fault gouge »</i></p>									

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		<p>« 109.10- 110.70 A broken zone, a damage zone caused by a nearby fault system, with shear sense, as well as calcite cemented breccia filling in foliations of approximately 0 degrees TCA »</p> <p>« 110.70- 113.80 A broken zone controlled by 0 degrees TCA foliation, which cuts a dilational fracture of 26 degrees TCA in which vertical growth of calcite crystals fills »</p> <p>« 117.40- 123.10 A broken zone without much fault gouge but irregular fragments »</p> <p>« 123.10- 124.90 Consolidated fault-gouge shear zone breccia with foliations offsetting calcite veinlets »</p> <p>« 131.50- 144.90 A fault zone of fit-together pieces, locally brecciated »</p> <p>« @ 137.00 Foliation dips 49 degrees to northwest on oriented core »</p> <p>« @ 140.90 Foliation = 31 degrees to southwest on oriented core »</p> <p>« 144.90- 147.30 A fault zone with graphitic blocky also some slaty fragments, quite angular »</p> <p>« 147.30- 147.80 Calcite veined breccia with mylonite features »</p> <p>« 147.80- 151.00 Fault zone with angular fragments and mirror-like slickenside »</p> <p>« 151.00- 152.00 Fault gouge controlled by foliation and fracturing »</p> <p>« 152.00- 158.80 A fault zone dominated by angular graphitic slickensided fragments with calcite veinlets and coating »</p> <p>« 159.50- 162.30 Brittle deformation dominated broken zone without much fault gouge »</p> <p>« 162.30- 165.30 Foliation controlled shear zone with alpha = 32 degrees »</p> <p>« 165.30- 180.40 Brittle deformation zone without much fault gouge but</p>									

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		<p><i>with abundant angular fragments »</i></p> <p><i>« 180.40- 182.70 Shear zone with mylonitization, foliation as well as quartz calcite veining »</i></p> <p><i>‹ @ 212.00 Foliation with calcite coating = ture dipping of 46 degrees toward 359 degrees from north on the oriented core ›</i></p> <p><i>« 212.70- 215.00 Slightly damaged fault zone with large fragments »</i></p> <p><i>‹ @ 222.00 Foliation = 36° ›</i></p>									
223.00	224.20	FLT									
		<i>A large fault zone of shear foliation sense with mylonitization sense, graphihtic slickenside, consolidated</i>									
224.20	241.00	FLMD									
		<p><i>FLMD – Flaggy Mudstone Formation</i></p> <p><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 »,</i></p> <p><i>« 228.20- 231.00 A significant fault breccia, consolidated, abundant calcite veining and stockworking. Locally vuggy, graphitic, mylonitized, calcite cemented/veined/stockworked breccia »</i></p>									
241.00	285.20	USMS	E6618901	283.10	283.70	0.60	0.00	0.01	1.25	1.25	0.45
		<i>USMS – Upper Siliceous Mudstone</i>	E6618902	283.70	284.40	0.70	0.00	0.04	1.25	1.25	0.05
		<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</i>									

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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>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>« 246.00- 247.70 A damage zone controlled by foliation, severely ductile- and brittle-deformed »</i></p> <p><i>« 248.80- 250.00 A fault core where rocks are highly sheared and mylonitized, with graphitic slickenside and fault gouge »</i></p> <p><i>« 250.80- 252.00 Severely sheared, compressed into fault gouge, flanked by recrystalized, brecciated sparry limestone; this is a fault zone with many small faults in it »</i></p> <p><i>« 253.00- 263.60 A wide damage zone with shear sense and 0 degrees TCA foliations and slaty cleavages, abundant mirror-like slickenside so smooth that it is just like a piece of mirror»</i></p> <p><i>« 266.30- 271.60 A major fault zone with shear mylonite foliation features and also dilational characteristics as well as vuggy texture in places »</i></p> <p><i>« 271.60- 275.00 A damage zone with shear features around a nearby fault core »</i></p> <p><i>« 275.00- 278.00 Shear zone with graphitic slickenside »</i></p> <p><i>« 278.00- 282.00 A severely damaged zone with strong foliation and shearing »</i></p> <p><i>« 282.00- 283.20 Calcite veined /cemented limestone breccia with carbonate alteration »</i></p>											
			E6618903	284.40	285.40	1.00	0.00	0.03	1.25	1.25	0.16

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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%
285.20	288.80	FLT	E6618904	285.40	287.30	1.90	0.03	0.07	1.25	1.25	0.39
Cemented limestone breccia dominated by brittle deformation, calcite veined.			E6618905	287.30	288.80	1.50	0.01	0.06	1.25	1.25	0.17
288.80	291.00	ACTM	E6618906	288.80	289.60	0.80	0.01	0.01	1.25	1.25	0.46
ACTM – Active Member			E6618907	289.60	291.00	1.40	0.01	0.00	1.25	1.25	4.73
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.											

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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>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>« 288.80- 291.00 BARREN, recrystallized basal limestone, locally brecciated mainly along 0 degrees TCA cleavages »</p>											
291.00	339.00	CCMS	E6618908	291.00	292.00	1.00	0.01	0.00	1.25	1.25	3.58
CCMS – Calcareous Mudstone			E6618909	292.00	293.00	1.00	0.01	0.00	1.25	1.25	3.47
			E6618910	293.00	293.00	0.00	1.32	2.90	21.60	180.00	0.46
Massive, calcareous, carbonaceous, dark grey mudstone. Most of the member is											

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		<p>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>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 »,</p> <p>‹ @ 295.50 Foliation alpha = 12 degrees; beta = 320 degrees ›</p> <p>‹ @ 303.00 Linear feature = 20 degrees TCA ›</p> <p>« 300.80- 302.50 FLT with localized fault gouge, 0 degrees TCA foliations dominate, a fault damage zone »</p> <p>‹ @ 305.60 Linear feature alpha = 30; beta = 320 ›</p> <p>‹ @ 313.00 Linear feature: alpha = 30; beta = 360 ›</p> <p>‹ @ 317.00 True dipping direction: foliation dips 59 degrees toward east southeast ›</p> <p>‹ @ 319.20 Foliation on the oriented core: dips 52 degrees to northeast ›</p> <p>« 320.70- 321.70 FLT with graphitic slickenside; foliation controlled »</p> <p>‹ @ 327.10 Linear feature: alpha = 30 ›</p>									
339.00	339.00	EOH									