

Hole No.: DNE-102	Depth: 327.00 m	Horizontal Length: 0.00 m	Project: 1710
Location Data:			
Property:	Selwyn Project	Claim Name:	NOD 46
Mining District:	Selwyn Basin	Grant Number:	YC74026
Province/Territory:	Yukon		
UTM Co-Ordinates & Altitude of Drill Hole Collar:			
UTM Easting:	480331.58 m	True Azimuth:	190.0 °
UTM Northing:	6932566.46 m	Hole Angle:	-70.0 °
Elevation (m):	1192.06 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:	250.0 °		
Dimond Drilling Contract:			
Drilled By:	NL-01	Date Drilling Start:	23-May-14
		Date Finish:	27-May-14
Diamond Drill Core:			
Logged By:	K. Paterson	Date Logging Start:	29-May-14
		Date Finish:	4-Jun-14
Legend for Core Logging Codes: PAX			
Core Size:	NQ3	Cemented:	No
Casing Depth:	50.20 m	Casing Pulled:	Yes
Water Depth:	0.00 m	Overburden Depth:	50.20 m
Level:		Section:	
		Drift:	

Selwyn Project

Diamond Drill Log

Survey Data for Hole

DNE-102

Hole Comments:

Fri, May 23 --- DS: drilled 52m to EOH @ 183m. Small fault @ 168.8m. NS: End of hole survey, pull NQ & casing (back ream faults). Clean & tear down drill - 3 hr. Demobe waterline - 5hr. Ready to move out of HCW to DNE-852 by morning.

Sat, May 24 --- DS: Move drill from HCW, run water line, drill casing to 33m. NS: drilled 21m down to 54m. Ream and advance casing 2X down to 48m.

Sun, May 25 ---DS: No major issues, surveys done at 50m and 100m. Lost return @110m straight into fault from 110-114m (end of shift depth). NS: Reaming and washing, couldn't pass water 110-117m, very tight - 6hrs. Low recovery 117-132m, blocky, no recovery, washing hole out at end of runs - 4hrs. Bit gone at 132m (rod pull and bit change) drill to 135m, ream 110-132m - 2hrs. End of shift depth 135m.

Mon, May 26 --- DS: No major issues. Drilled 39m to total depth of 174m. Survey hole at 150m. NS: No major issues. Drilled 27m down to total depth of 201m. Had to change bit after 6m of drilling, reaming fault from 110-132m, remaing 6m to bottom of hole and extra washing due to this fault. Currently in BSSM.

Tue, May 27 ---DS: No major issues, hit fault at 229m. Had to ream fault from 110-130m, hard time getting rods through. Drilled 30m to total depth of 231m. NS: Good drilling, extra washing at end of runs, reaming broken and clay sections (likely fault related). Survey at 250m. Drilled 39m to toal depth 270m. Currently in BSSM?

Wed, May 28 --- DS: No major issues, good drilling other than fault 282 - 286.7m. Drilled 51m down to 321m total depth. Surveys at 300m. NS: Drill 6m to 327m total depth, survey and shut down at ~8pm in CLST. Tear down ready to move first thing. Night shift on this drill moved to other drill after tear down.

<i>Depth</i>	<i>Dip</i>	<i>Azimuth</i>
0.00	-70.0	190.0
50.00	-70.9	188.9
100.00	-67.4	181.0
150.00	-67.5	192.4
250.00	-65.7	194.0
300.00	-65.8	194.1
327.00	-63.9	181.1

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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	50.20	OVBR <i>Loosen sedimentary</i> « 0.00- 33.00 No Recovery » « 33.00- 45.00 Polyolithic pebbles to cobbles, sandstone-mudstone, boulder of polyolithic conglomerate, 80cm core width, trace clayey till/weathered bedrock? » « 45.00- 50.20 Clayey overburden, subangular-subround-round clasts within black muddy/clayey matrix »									
50.20	148.20	FECR <i>FECR – Iron Creek Formation</i> <i>Mudstones to fine grained sandstones showing ubiquitous graded beds. The formation is subdivided into 6 informal units. The most significant unit regionally is the Selwyn Mountains barite horizon.</i> « crns ba 2.00-10.00mm », <i>This section (50.2-86.9m initially logged as Chert Pebble Conglomerate due to presence of several conglomerate sections observed within black mudstones. Re-interpreted as a portion of the Iron Creek Formation.</i> « 50.20- 53.70 Black siliceous mudstone, mm-few cm grey siliceous cherty beds generally oriented at intermediate angles to core axis, although several sections display broad wavy textures. Minor clast supported mm scale polyolithic conglomerate/coarse lithic arenite beds. Rare pyritic stringers following distorted grey cherty beds and floods filling Cg matrix @ 50.4m. » « @ 51.90 S0 = 70. Grey chert laminations/beds in black siliceous mudstone. 25% of unit is grey chert. 70° » « 53.70- 64.00 Section dominated by (80%) matrix supported immature									

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		<p>conglomerate (10cm to 3m core length) with lesser (20%) black to dark grey siliceous mudstone interbeds. Conglomerate clasts are 95% subangular to angular 5mm-rarely cm scale medium to light grey chert and white quartz with 5% subround-round medium grey cm-2cm limestone? (calcareous) clasts/concretions? Contacts between lithologies are planar to irregular with mudstone 'clasts' within conglomeritic portions. Mudstone interbeds appear similar to matrix material in conglomerate. »</p> <p>◁ @ 63.40 S=30. Contact between grey, coarse arenite concretion and matrix supported conglomerate ›</p> <p>« 64.00- 69.40 Black siliceous mudstone, as 50.2-53.7m, rare broadly curvaceous poorly defined bedded sections. Wavy to fragmented quartz +/- calcite veins and ultra rare pyrite stringers paralleling these veins. »</p> <p>◁ @ 69.40 S= 40. Contact between matrix supported conglomerate and black siliceous mudstone ›</p> <p>« 69.40- 86.90 Section dominated by angular grey-white generally 5mm-cm scale matrix supported chert pebble conglomerate, with minor interceptions of black to grey siliceous mudstone +/- discontinuous oblong ovals of light grey chert, 5mm-1cm wide short axis, 2cm-5cm long axis and mm-cm scale distorted chert bands. Chert 'ovals'/sausage often parallel to deformation in chert beds (ex 76.2m). Conglomerate sections range from matrix to clast supported (77-85m) with a higher abundance of calcitic clasts/concretions? than previous conglomerate intercepts. »</p> <p>◁ @ 70.10 S= 30, clasts in conglomerate have moderately to well oriented fabric as upper and lower contacts (imbricated clasts?) 30° ›</p> <p>◁ @ 77.00 S = 40* Clast orientation/fabric parallels upper contact and bedding in mudstone section. 40° ›</p> <p>◁ @ 78.50 Black and grey laminated siliceous mudstones interbedded; display jagged flame structures/soft sediment deformation features and very minor sausage chert beds. ›</p>									

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		<p>« 82.10- 86.90 Low angle fracture set at 25*TCA. minor rubble zones (low to moderate loss) +/- graphitic fracture zones 25°»</p> <p>« 86.90- 92.00 Massive medium grained sparry dolostone or crystalline sandstone? Very weak reaction with acid when powdered, but very hard. Fracture continues through this unit at 30* TCA. Low to moderate core loss. »</p> <p>« 92.00- 102.30 Fine grained dark to light grey (variable carbon content?) graded bedded sandstones. Beds are generally mm-cm scale, rarely up to 5cm, generally steep but wavy and display distinct cross bedding (these may potentially be decollement structures?) and soft sed deformation features (93.3m). Minor round cm-3cm scale calcareous concretions, most abundant 97-98.6m., correlating with appearance of discontinuous 5mm scale pyrite pseudobeds. Deformation/distortion of sandy beds increasing at 98.6m, appearance of mm-5mm scale grey chert beds +/-pyrite with anastomosing 'ovals/sausage beds' planar to wavy, 5mm-cm scale short axis, 1-3cm long axis within grey to black mudstone, rare coarser silt-sandstone. »</p> <p>« 102.30- 105.80 Wavy fine to ultra fine grained mudstone beds continue, however here are interbedded? With calcite as discrete irregular shaped subround-round blebs (mm-cm scale) to continuous clotted aggregate laminations (3mm-cm scale) with striped appearance. Initially carbonate:mudstone ratio 2:1, then 1:1 @ 103.9m, then 1:2 @104.8m.</p> <p>« 105.80- 137.10 Black siliceous very fine to fine grained carbonaceous mudstone, massive, at times fine grained portions display submm-mm scale weathered out specks (weathered=washed away?) with different compositions colour. White to beige-brown to lustrous (mica or ufg sulphide?)»</p> <p>« 109.00- 137.10 FLT. Large fault zone, significant core loss across all runs (other than 132-135m, only ~20% loss over this run, remainder are ~50% or greater) with ground and rounded cm-5cm scale rubble. Most intense from 109-118.9m 5% intact core, 70% broken, rounded redrilled and spun up in core</p>									

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		<p>tucore compared to otbe, 25% fault breccia and minimal gouge. Remainder of fault displays more intact core than other components. »</p> <p>« 137.10- 148.20 Black to grey interbedded mudstones to siltstones and minor light grey chert component. Bedding is uneven with at times, wavy contacts with light grey granular textured silt to very fine sandstone beds or clasts? cm-10cm core length with 5mm-2cm scale wavy black mudstone+medium grey chert interbeds or matrix material. Light grey coarser material is decreasing downhole, at first dominating (70%) then by 144m this material only 40-50%. Mudstone increase is inversely proportional to silt decrease, grey chert beds remain consistant. Light grey beds appear fragmented/broken and weakly displaced with wavy to sharp edges. »</p> <p>« @ 138.50 S= 55° Internal lamination in light grey siltstone »</p> <p>« @ 139.70 S = 60. Contact between mudstone and grey siltstone clast or bed? Generally contacts bewtween mudstone chert and silstone are wavy to irregular, but oriented at 60-70* TCA. Regular fractures in this area tend to follow these orientations (following bedding orientation, but not necessarily along bedding surfaces. S = 60° »</p> <p>« @ 146.80 Black mudstone and grey siltstone contact 60° »</p>									
148.20	279.50	BSSM	E6617801	264.00	265.50	1.50	0.01	0.03	1.25	1.25	0.24
		BSSM – Backside Siliceous Mudstone	E6617802	265.50	267.00	1.50	0.01	0.03	1.25	1.25	0.15
			E6617803	267.00	268.50	1.50	0.00	0.01	1.25	1.25	0.26
		Devonian Siliceous Mudstone – Upper Chert Formation	E6617804	268.50	270.00	1.50	0.01	0.01	1.25	1.25	0.45
			E6617805	270.00	271.50	1.50	0.01	0.03	1.25	1.25	0.23
		Greyish black laminated chert and siliceous mudstone. Randomly-oriented to bedding-parallel bioturbation is common in the bottom of the unit. « lm chrt	E6617806	271.50	273.00	1.50	0.01	0.39	1.25	13.40	0.03
			E6617807	273.00	275.90	2.90	0.01	0.00	1.25	1.25	2.05

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75.00-95.00%	»	« btrb 0.10-2.00cm »	E6617808	275.90	277.50	1.60	0.00	0.00	1.25	1.25	1.49
			E6617809	277.50	278.50	1.00	0.00	0.00	1.25	1.25	0.63
			E6617810	278.50	279.50	1.00	0.00	0.02	1.25	1.25	0.21
			E6617811	278.50	279.50	1.00	0.00	0.02	1.25	1.25	0.10
<p>« 148.20- 190.50 Minor bioturbations observed, therefore identifying this dark grey mudstone as BSSM, however high calcite content (veining) does contradict this? Dominant lithology is black siliceous mudstone with 5mm-10cm medium to dark grey very fine grained calcareous laminations/calcareous mudstone interbeds. Rare pyrite replacement of beds/laminations. Rare light grey granular textured calcareous limestone beds or concretions, with planar contacts, occasional pinched out ovals, up to 1cm wide x 5cm, often following bedding/lamination orientation. Minor jagged mm scale fractures throughout filled with black carbonaceous? material, both cross cutting and following laminations. Jagged edged irregular cmxcm to 3cm x 10cm blocks of calcareous material (lmst?) material within black mudstone (rip up clasts?). Main difference between this unit and next is latter is more consistantly bedded/laminated and dominantly with planar beds and less graphite.»</p> <p>« @ 148.20 1.4m of rubblely to pebbly to 5cm longbroken core pieces. 50% recovery with 20% intact core, 70% broken, 10% fault breccia. »</p> <p>« @ 150.40 S = 60* carbonaceous lamination/bedding. S = 60° »</p> <p>« 153.30- 162.30 FLT / Shear. Lustrous graphitic fracture surfaces, several breccia piles/rubble zones 10-30cm wide. minor calcite crackle and vein breccia with angular 3mm-cm scale wallrock clasts. Fracture orientation at 35° »</p> <p>« @ 161.20 Contact between calcareous mudstone and non calcareous mudstone. Consistent orientation at 30° »</p> <p>« 164.00- 164.60 Calcite>>quartz vein, jagged wallrock clasts and black mm scale seams are oriented at 20*TCA, but vein uper and lower contacts are not measured (graphitic and sheared to irregular). »</p> <p>« 167.40- 172.80 Several rubble piles, increase in calcite veins including vein breccias, fine black mm scale jagged seams (carbonaceous?) weathered/washedc out. 40% intact core, 40% broken, 15% breccia, 5% gouge, no</p>											

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		<p><i>consistent fracture orientation. »</i></p> <p><i>« 173.50- 180.00 Rubble piles, calcite vein breccias and graphitic fracture surfaces »</i></p> <p><i>« 189.30- 190.50 Sheared texture , elongate lensoid fragments, graphitic fracture surfaces and calcite veins bearing elongate cm- a few cm scale wallrock clasts, general orientation of fractures and wallrock clasts is 30°»</i></p> <p><i>« @ 184.20 Mudstone/calcareous mudstone contact 50° »</i></p> <p><i>« 190.50- 234.00 Finely bedded/laminated mm-cm scale mudstone and calcareous mudstone. Here calcareous laminations are often composed and/or contain mm scale elongate white blebs, not as continuous calcite beds as above. Rare 30cm-1m light to medium grey limestone beds are observed, often with internal lamination. »</i></p> <p><i>« @ 198.40 Fine muddy/calcareous laminations 40° »</i></p> <p><i>« @ 205.10 Fine (2mm) black muddy and grey calcareous laminations 40° »</i></p> <p><i>« @ 226.00 Fine muddy and calcareous laminations 40° »</i></p> <p><i>« 228.00- 234.00 FLT: Highly fractured to breccia piles, minor gouge, calcite crackle and vein breccias, fractures at 50-60* TCA. 50°»</i></p> <p><i>« 234.00- 279.50 Black to dark grey, generally siliceous massive mudstone. Significant decrease in calcite content and laminated appearance. Minor 10-30cm intervals with flaggy textured black carbonaceous material amongst med-dark grey siliceous material. Minor medium grey granular to ultra fine grained to internally laminated calcareous beds/concretions. Many short 10-20cm gouge zones spread throughout this unit (see structure log). Clear bioturbations suggest this is true BSSM. Uncertain of last two major litho breakouts, could be part of FECR sediments. »</i></p> <p><i>« 237.50- 237.80 FLMD concretion; dark grey siliceous mudstone with black wavy 'flaggy' texture. »</i></p>									

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		<p>« 257.60- 257.80 FLMD concretion; Light grey siliceous mudstone with flaggy texture and clear bioturbations, minor ultra fine grained disseminated pyrite »</p> <p>‹ @ 266.30 Black bioturbation in grey siliceous mudstone ›</p> <p>‹ @ 267.40 Black bioturbation in grey siliceous mudstone ›</p>									
279.50	286.70	FLT	E6617812	279.50	280.40	0.90	0.01	0.10	1.25	1.25	0.06
		Fault zone brings us from hanging wall stratigraphy through to footwall. Black	E6617813	280.40	282.00	1.60	1.89	6.06	2.70	209.00	0.31

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<i>carbonaceous, siliceous mudstone pieces and shards, 5-10cm in length. Weakly laminated pieces 279.9-280.4m, massive thereafter. A single 10cm length of ACTM observed from 281.7-282.8m, very finely laminated medium to dark grey tobeige laminations, cm thck clotty pyrite stringers +/-calcite in this very short chunk of active member. overall 20% intact core, 30% broken, 40% fault breccia, 10% gouge. Broken to pebbly +/- gouge to crumbly carbonaceous intact gouge. see structure log for more detail. Graphitic lustre is abundant on fracture surfaces, abrupt termination at block (end of run).</i>			E6617814	282.00	283.50	1.50	0.09	0.32	1.25	20.20	0.30
			E6617815	283.50	285.00	1.50	0.02	0.12	1.25	6.60	0.14
			E6617816	285.00	286.70	1.70	0.01	0.04	1.25	3.70	0.29
◁ @ 279.50 ACTM Block, 10cm high grade very finely laminated calcareous mudstone, dark to light grey to beige +pyrite laminations ACTM ▷											
286.70 290.50 TRAN			E6617817	286.70	287.70	1.00	0.00	0.01	1.25	1.25	0.36
<i>TRAN – Transition Formation</i>			E6617818	287.70	288.80	1.10	0.00	0.00	1.25	1.25	0.38
			E6617819	288.80	290.30	1.50	0.00	0.00	1.25	1.25	0.46
			E6617820	290.30	290.30	0.00	0.00	0.00	1.25	1.25	1.01
			E6617821	290.30	290.30	0.00	5.72	6.54	72.60	189.00	0.87
<i>Consists of laminated tan mudstone and minor intercalated light grey limestone.</i>											
<i>« 1m mdst 1.00-10.00mm »,</i>											
<i>« 286.70- 288.80 Calcite crackle breccia with siliceous medium grey pcm scale mudstone (TRAN blocks). Matrix/vein supported, potentially healed fault breccia? with no digestion of wallrock clast »</i>											
◁ @ 289.30 Foliation of thin grey beds/laminations at 40° ▷											
290.50 327.00 CLST											
<i>CLST – Cambrian Limestone</i>											
<i>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</i>											

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		<p>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.</p> <p>The second unit, Massive Limestone Formation, consists of massive grey, micritic siliceous limestone. « lt gra , lm microspar 5.00-40.00cm », « lm micrite 1.00-5.00cm », « gra to lt bro , calcareous mdst 5.00-30.00mm »,</p> <p>◁ @ 293.00 Foliation, white calcite band in limestone 40° ▷</p> <p>◁ @ 304.90 Light to dark grey foliation/lamination in limestone 40° ▷</p> <p>◁ @ 314.60 elongate cmx1-5cm chain link texture 40° ▷</p>									
327.00	327.00	EOH									