

Diamond Drill Log

Comprehensive Report for Hole: WV05-155

Hole No.	WV05-155	Depth:	198.5	Horizontal Length:	0.0
Property:	Wolverine	Province:	Yukon		
Location:	Finlayson				
Claim Number:	KINK 3	Reference Number:	1614	Project:	Wolverine
Grid Name:	Foot Grid	Grid Type:			
Grid North Azimuth Measured Clockwise From True North:	35.00				
Grid Co-Ordinates & Altitude of Drill Hole Collar:					
Easting:	16825	Northing:	16800	Elevation:	1388.5
Hole Angle:	-85.00				
Hole Direction Measured Clockwise From Grid North:	180.00				
Hole Direction Measured Clockwise From True North:	215.00				
Date Drilling Started:	19/04/2005	Date Finished:	24/04/2005		
Drilled By:	Titan Drilling				
Logged By:	[REDACTED]	Logging Date Start:	21/04/2005	Finish:	/ /
Legend for Core Logging Codes:	Wolverine				
Core Size:	NQ	Cemented:	Pie		
Casing Depth:	0.00	Casing Pulled:	No		
Water Depth:	0.00	Overburden Depth:	0.00		
Level:	Section:	Drift:			
NTS Sheet Number:	105G/08	NTS Sheet Name:	Wolverine Lake		
UTM Grid Zone:	9	UTM Easting:	440069.281		
UTM Datum:	NAD 27	UTM Northing:	6810844.408		

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Hole WV05-155 was drilled to test the Wolverine horizon on Line 16825 E, and 16800N. The hole was also drilled for piezometer installation and Packer testing. This hole intersected 2.3m of massive sulfide between 183.2m and 183.4m (0.2m), 183.5m and 183.9m (0.4), and 188.6m and 190.3m (1.7) interbedded with a small 10cm argillite (and sericite altered argillite) bands. The ore consisted of 20-90% pyrite, 10-60% sphalerite, 1-2% Galena, and 5-10% chalcopyrite. The foliation of the ore body was generally 70 degrees to ca. which suggests a minimum true thickness of 2.1m ($\text{SIN}(70) \times 2.3\text{m} = 2.1\text{m}$). The immediate hanging wall was graphitic argillite and the immediate footwall sericite altered lapilli tuff. A piezometer was installed in this hole. The core was logged and 21 samples were taken including 1 standard, 1 blank, and 1 duplicate, and submitted to ALS Chemex.

Depth	Dip	Azimuth
0.00	-85.0	190.0
24.70	-84.1	177.3
64.30	-82.9	176.3
107.00	-81.6	176.8
149.70	-80.2	180.7
192.40	-79.1	183.7

From	To	Rocktype & Description	S_from	S_to	Sample	Width
- 0.00	18.30	DHOB				
18.30	21.90	RHLT Medium grey, >70% lapilli w/ 5-10% argillic matrix. Lapilli ovoid to elongate, 0.3-5.0cm, with serrated to jagged margins. 40-50% quartz, 20% felds, with pitted texture. « sericite 3.00-9.00%»« chlorite 1.00-2.00%»« @ 18.30 foliation -60.00° »« fracture intensity 2.00-5.00%»« porphyroblastic, recrystallized pyrite 1.00-2.00% 0.01-1.00mm»				
21.90	29.60	ARTF Abrup, conformable contact. Black w/ white lapilli and hematitic-rusty streaks from weathering. 20-30% brown weathered lapilli, 2-4mm, thin and elongate along foiation. Lapilli contains 5% quartz overall. Argillite thinly laminated, strongly foliated, and fissile.« sericite 1.00-2.00%»« disseminated pyrite 1.00%»« @ 29.60 foliation 63.00° »				
29.60	44.80	ARSI Light to medium green + white. 70% argillite, 30% other. Intensely broken and fissile, strongly foliated with « laminations 1.00-3.00mm» and 30% patchy silica. « sericite 5.00-10.00%»« chlorite 10.00-12.00%» with in argillite.« @ 29.60 foliation 52.00° »« fracture intensity 50.00-70.00%»				
44.80	51.40	ARSI Black, very fine grained, w/ concoidal fracturing and « very thin lamination 0.01-1.00mm». 10-12 % quartz, « sericite 2.00-5.00%», 5-10% graphite, 70-75 % other making up the argillite. Very blocky and broken. Upper and lower contacts poor and undefined. « late fracture filling pyrite 1.00-2.00%»				
51.40	53.90	EXMT Dark grey, fine to medium grained, « lamination 1.00-3.00mm». « crystalline magnetite 55.00-70.00% 0.01-1.00mm», « carbonate 5.00-7.00%», and 23% quartz in the matrix. « chlorite 1.00%», « disseminated pyrite 1.00-2.00%»« porphyroblastic pyrite 1.00% 2.00-4.00mm»				
53.90	54.30	RHTT Light grey, very fine grained, thinly foliated, « @ 53.90 foliation 67.00° »				
54.30	56.20	EXMT Dark grey, fine to medium grined, « lamination 1.00-3.00mm», « anhedral blebs magnetite 70.00-75.00% 0.01-1.00mm» 20-25% quartz.« fracture intensity 1.00-2.00%»				
56.20	56.50	RHTT				
56.50	56.70	EXMT « @ 56.50 foliation 56.00° »				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
56.70	60.10	EXMT				
60.10	60.50	QTVN				
60.50	62.20	EXMT Black to grey, gradual change throughout rock , « magnetite 70.00-20.00%», silica 30.0-75.0%, « carbonate 2.00-5.00%»« chlorite 1.00-2.00%»« sericite 1.00-4.00%»« @ 60.50 foliation 69.00° »				
62.20	65.40	RHFS Light grey with tint of green, very fine to aphanitic, > 65% quartz, 10-15% felds, « chlorite 1.00%»« sericite 4.00%»« fracture intensity 0.01-1.00%»« @ 62.20 foliation 67.00° »« disseminated pyrite 1.00% 0.01-1.00mm»« porphyroblastic, cubic pyrite 0.01-1.00% 2.00-3.00mm»				
65.40	68.60	EXMT Light grey w/ black dots and bands, « magnetite 20.00-30.00%» > 40% quartz, « lamination 0° 1.00-3.00mm»« @ 62.20 foliation 60.00° »« disseminated pyrite 2.00-3.00%»« banded pyrite 1.00%»« porphyroblastic pyrite 0.01-1.00% 1.00-2.00mm»				
68.60	68.90	RHTT Medium grey, very fine to aphanitic. 5-10% lapilli, 4-6mm, in a fine ash matrix. « disseminated pyrite 1.00%»				
68.90	69.80	EXMT « disseminated pyrite 1.00-2.00%»« porphyroblastic pyrite 1.00%»« @ 68.90 foliation 64.00° »				
69.80	70.90	RHFS Light grey, aphanitic, pitted texture, >70% quartz.« @ 69.80 foliation 66.00° »« chlorite 1.00%»« sericite 5.00%»« fracure intensity 2.00-3.00%»« pyrite 1.00-2.00%»				
70.90	75.20	EXMT Black, fine-grained and thinly laminated with « fine, banded magnetite 30.00-40.00% 1.00-4.00mm», 20-30% amorphous quartz, and 10-20% argillite.« fracture intensity 10.00-60.00%»« @ 70.90 foliation 72.00° », « fine, banded pyrite 2.00-3.00%»				
75.20	78.30	QTVN				
78.30	87.20	ADMS Black w/ white streaks, very fine grained, « lamination 0.01-1.00mm», 5-10% tuffaceous material, siliceou, 1-4mm, elongate and fish eyed, streaky. Overall, unit is strongly fractured and broken. « fracture intensity 30.00-40.00%»« disseminated pyrite 1.00-2.00%»« banded pyrite 1.00%»«				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		<p>platey, accurate filling pyrite 1.00%» (@ 78.30 foliation 72.00% »</p> <p>87.20 90.10 ARSI Dark grey, fine to medium grained, « lamination 1.00-2.00mm», w/ cross bedding and herring-bone structures. Conchoidal fracturing, 25-35% quartz in the argillite, « sericite 10.00%», « chlorite 10.00-12.00%». « fracture intensity 25.00-30.00%» (@ 87.20 foliation 74.00° »</p> <p>90.10 97.50 RHFS Light grey, aphanitic, w/ thin « banded sericite 5.00-7.00% 0.01-1.00mm» and « banded chlorite 2.00-5.00%». Siliceous w/ pitted texture, possibly microlites altered to clay. Overall, > 65% quartz. « fracture intensity 40.00%» (@ 90.10 foliation 65.00° » « fine and platey pyrite 1.00-2.00%»</p> <p>97.50 105.30 RHAR Gradational transition into a high silica banded argillite unit. 60% of rock is high silica bands, 1.5-3m, >60% quartz w/ white pitted texture, possibly microlites altered to clay. 30% of rock is argillite bands 0.2-1.2 cm, irregular w/ « sericite 15.00-20.00%», « chlorite 5.00-7.00%», « white clay 1.00-2.00%». Overall, moderate fracturing and breaks into disks. « fracture intensity 25.00%», (@ 97.50 foliation 65.00° », « platey, fine pyrite 1.00-2.00%»</p> <p>105.30 111.60 ARSI Dark grey, fine grained, blocky and broken with very poor core recovery. 30% fine quartz, giving argillite conchoidal fracturing. « graphite 10.00-15.00%» « sericite 15.00-20.00%», « chlorite 1.00-2.00%», and 20-25% other argillitic material. « fracture intensity 90.00-60.00%», (@ 105.30 Foliation 67.00° », « platey, fracture filling pyrite 1.00%»</p> <p>111.60 114.00 EXMT Light grey-green, fine-grained w/ medium-grained « magnetite 10.00-12.00% 0.01-1.00mm», 35-45% quartz, « sericite 10.00-15.00%», « chlorite 5.00-10.00%», 10-12% other. Looks very much like a fine sandstone. « fracture intensity 20.00-70.00%», (@ 111.60 foliation 70.00° », « pyrite 5.00%»</p> <p>114.00 118.30 ARSI Grey, aphanitic, 50% quartz + 50% argillite irregularly laminated and patchy. Conchoidal fractures. « sericite 10.00%», « chlorite 5.00%», « foliation intensity 20.00%», (@ 114.00 foliation 68.00° »</p> <p>118.30 122.50 EXCP Medium grey, fine-grained, w/ medium-grained pyrite. Moderately foliated with irregular « lamination 2.00-3.00mm». Matrix weakly banded with 10% argillite, 50-60% calcite, and 5-10% quartz. « chlorite 5.00%», « fracture intensity 20.00%», « quartz vein(s) 2.00-5.00%», « fine, banded pyrite 5.00-10.00%</p>				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		1.00-4.00mm», « subhedral, « subhedral, blebby pyrite 2.00-3.00% 1.00-2.00mm», « euhedral, porphyroblastic pyrite 1.00% 2.00-3.00mm»				
		122.50 125.00 ARSI Light to dark grey, fine-grained to aphanitic, « lamination 0.01-1.00mm», w/ phyllitic foliation surface, « graphite 2.00-5.00%», 15-25% quartz, « chlorite 1.00-2.00%», « sericite 5.00-7.00%», « silica 25.00%», « fracture intensity 25.00%», « @ 122.50 foliation 69.00° », « fine, banded pyrite 1.00-2.00%», « medium grained, euhedral, porphyroblastic pyrite 2.00% 1.00-1.50mm», « platy fracture-filling pyrite 0.01-1.00%»				
		125.00 125.60 ARSI « chlorite 2.00%», « sericite 7.00%», « silica 60.00%», « fracture intensity 15.00%», « quartz vein(s) 10.00%», « fine, banded pyrite 1.00-2.00% 0.01-1.00mm»				
		125.60 126.50 ARSI				
		126.50 126.60 QCVN « carbonate 30.00%», « chlorite 10.00%»				
		126.60 129.80 ARSI				
		129.80 134.60 EXMT Grey, beige and white, fine to coarse grained, foliated w/ aligned fragments in localized horizons. Texture wispy, contorted, banded to fragmental (aligned lapilli 2-7mm, elongate and aligned to foliation). « fine-grained and banded magnetite 5.00-10.00%», 30% patchy calcite, 20-30% silica, « chlorite 5.00-7.00%», « clay 2.00-5.00%», 5-10% argillic bands.				
		134.60 137.70 ARSI Black to dark grey, fine to aphanitic thinly laminated (<1mm) w/ patchy blebby silica (looks chaotic bt not). 5-10% graphite, 20-30 % 20-30 % SiO2 alteration, 5-7% sulphides, 1-2 % CO3 alteration, 2-3% chlorite alteration and 3-5 % fine sericite. « fine grained blebby pyrite 1.00%»« disseminated and medium grained to platy, fills fractures pyrite 3.00»				
		137.70 139.30 ARGR Black, coarse grained granular argillite with >25% graphite 10% quartz pebbles and angular to subangular broken argillite fragments 1-2 mm in size« CO3 1.00%»				
		139.30 139.70 ARSI Black, fine, « wispy and irregular qtz 30.00-40.00%»« sericite 10.00%»« fine, net textured and veins pyrite 3.00%»				
		139.70 140.80 QTVN				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		massive with 5-12% chlorite« disseminated pyrite 1.00-2.00%»				
140.80	141.90	ARMS				
		light green, fine 20% SiO ₂ , 25% sericite « chl 10.00%»« disseminated and fracture filling pyrite 3.00%»				
141.90	142.60	QCVN				
		20% CaCO ₃ , 15% chlorite, 60% quartz« stringy pyrite 1.00-2.00%»				
142.60	148.00	RHST				
		medium grey-green fine to medium grained, thinly laminated (12 mm) foliated with tfaceous material (white <1-1.5 mm ovoid and elongate, high in silica) making up to 20-30% of rock 1-3% chlorite, 20-25 % sericite <40% other. Rock is fissile and foliation surfaces is phyllitic and clay filled. unit breaks into disks. reworked tuff in sericite schist.				
148.00	149.80	ARSI				
		contact gradational, thinly laminated (1-3 mm) fine-grained 30-40% SiO ₂ alteration. Blebby and patchy 1-2% chlorite, 5% sericite, 10% graphite. « blebby <1 mm along foliations, all associated with SiO ₂ alteration py 2.00-3.00%»				
149.80	150.00	ARMS				
		Medium grey, aphanitic, thiny foliated				
150.00	150.90	ARSI				
		Black, fine grained, laminated				
150.90	151.70	ARTF				
		Medium grained, brown, thinly laminated feldspar crystals to 1 mm. « ser 35.00%»« chl. 5.00%»« carbonate 10.00%»				
151.70	151.90	QTVN				
151.90	153.40	ARSI				
		light med grey very fine w/ conchoidal fracture. 3% graphite « qtz 30.00%»« chlorite 2.00%»				
153.40	156.10	RHFS				
		Gradational conact between light grey aphanitic with <1 mm sericite bands to 15%. Pitted texture w/ conchoidal fracture >80% quartz w/ 3-5% pervasive sericite alteration moderately fractured parallel and perpendicular to foliation. « sercite alteration 20.00%»				
156.10	156.40	CAVN				
		calcite vein with alteration halo				
156.40	159.80	ARSI				
		black and grey, ery fine to aphanitic w/ patchy irregualr silica, up to 30 % conchoidal fracture and broken rock 5-10 % graphite « sericite 5.00-10.00%»« qtz 30.00%»				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
159.80	161.90	ARMS Black, aphanitic, phyllitic fissile thinly foliated (<1mm) « chlorite alteration 1.00-2.00%» « along foliation planes sericite alteration 2.00-5.00%» 1-2% graphite.				
161.90	162.20	ARMS gradational contact 20-30% graphitic, granular				
162.20	167.70	ARMS Black aphanitic, phyllitic competat to fissile. 15-20 % graphite along foliation planes less than 1 mm thick. « weak and patchy qtz 5.00-10.00%» breaks into disks« whisy and patchy carbonate 10.00%»				
167.70	168.50	QCVN 90 % massive fractured quartz, 10 % calcite				
168.50	176.80	RPAT Grey medium to coarse lapilli (4-7 mm) in a sericite feldspar rich matrix. 5-10% quartz crystals, 5-6 mm, sub-angular and aligned with foliation. 50-60% feldspar-rich lapilli, 1-12 m, ovoid and elongate, varies from matrix supported to to lapilli supported matrix 15-20%, 1-5% chl., 5% quartz and feldspars. overall phyllitic foliated texture. Carbonate altered feldspars. Intensely fissile and broken « 168.50- 170.30 chlorite 10.00-15.00%» « sericite 15.00-20.00%» « 171.60- 171.80 ARMS » « 172.00- 172.40 RPQ				
176.80	179.40	RPQL med. grey , phyllitic and porphyritic 30% quartz eyes lapili, 5-20 m elongate and fractured, black to blue. Matrix composed of 30-40% tuffaceous rhyolitic material « carbonate 2.00%» « chlorite alteration 10.00%» « sericite alteration 20.00%»	176.80	177.80	B204701	1.00
			177.80	179.40	B204702	1.60
			177.80	179.40	B204703	1.60
179.40	182.60	ARTF Black, fine grained w/ 30% visible tuff grains(<2 mm). Tuff is feldspar rich and CO3 altered (5%), makes up 30% of the rock. Argillite up to 50 % is laminated and phyllitic with 5-10% graphite.	179.40	180.80	B204704	1.40
			180.80	182.60	B204705	1.80
182.60	183.20	ARGR Black graphitic and slightly sandy				
183.20	183.40	SSMS massive sulphide contact at 69 degrees	183.20	183.40	B204706	0.20
183.40	183.50	ARGR Black, graphitic (30%) and sandy argillite				
183.50	183.90	SSMS	183.50	183.90	B204707	0.40

Project: Wolverine

Hole Number: WV05-155

From	To	Rocktype & Description	S_from	S_to	Sample	Width
183.90	187.10	RHST	183.90	185.40	B204708	1.50
		<i>greyish-green, fine to medium grained and tuffaceous tabular feldspar crystals</i>	185.40	186.50	B204709	1.10
		<i>2-5 mm 25-35% « sericite alteration 50.00%» « chlorite alteration 10.00%»</i>	186.50	187.10	B204710	0.60
187.10	187.30	STGG	187.10	187.30	B204711	0.20
		<i>RHST but granular</i>				
187.30	188.60	QTVN	187.30	188.60	B204712	1.30
188.60	190.30	SSMS	188.60	188.60	B204713	0.00
			188.60	189.60	B204714	1.00
			189.60	190.30	B204715	0.70
			190.30	191.30	B204716	1.00
190.30	191.30	RHST				
		<i>granular and flaky cross-cutting contacts</i>				
191.30	195.30	RHST	191.30	192.60	B204717	1.30
		<i>Same as above</i>	192.60	194.40	B204718	1.80
			194.40	195.30	B204719	0.90
195.30	196.50	STGG	195.30	196.50	B204720	1.20
		<i>Same as above but granular</i>				
196.50	198.40	RHST	196.50	196.50	B204721	0.00
198.40	198.40	EOH				