

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:	P. Anderson	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		

Diamond Drill Log**Comprehensive Report for Hole: WV05-155**

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>latey, «<i>acure filling pyrite 1.00%</i>» « @ 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 harring-bone structures. Concoidal 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, aphaniti, 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. Overa, > 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 mirolites 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, bloky and broken with very poor core recovery. 30% fine quartz, giving argillite concoidal fracturng. « graphite 10.00-15.00% » « sericite 15.00-20.00% », « chlorite 1.00-2.00% », and 20-25% other argillic material. « fracture intensity 90.00-60.00% », « @ 105.30 Foliation 67.00° », « platey, fracture fillng 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. Concoidal fracures. « 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 vien(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 but not). 5-10% graphite, 20-30% SiO ₂ alteration, 5-7% sulphides, 1-2% CO ₃ 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 « CO ₃ 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% SiO2, 25% sericite « chl 10.00%»« disseminated and fracture filling pyrite 3.00%»				
141.90	142.60	QCVN 20% CaCO3, 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% SiO2 alteration. Blebby and patchy 1-2% chlorite, 5% sericite, 10% graphite. « blebby <1 mm along foliations, all associated with SiO2 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. « sercrite 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

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	0.70
			188.60	189.60	B204714	1.00
			189.60	190.30	B204715	0.70
190.30	191.30	RHST	190.30	191.30	B204716	1.00
		<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				

Diamond Drill Log

Comprehensive Report for Hole: WV05-156

Hole No.:	WV05-156	Depth:	194.2	Horizontal Length:	0.0
Property:	Wolverine	Province:	Yukon		
Location:	Finlayson				
Claim Number:	FOOT 10	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:	16940	Northing:	16900	Elevation:	1397.7
Hole Angle:	-75.00				
Hole Direction Measured Clockwise From Grid North:	65.00				
Hole Direction Measured Clockwise From True North:	90.00				
Date Drilling Started:	19/04/2005	Date Finished:	25/04/2005		
Drilled By:	Advanced				
Logged By:	P. Anderson	Logging Date Start:	24/04/2005	Finish:	27/04/2005
Legend for Core Logging Codes:	Wolverine				
Core Size:	NQ 2	Cemented:	Pie		
Casing Depth:	0.00	Casing Pulled:	Yes		
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:	439844.286		
UTM Datum:	NAD 27	UTM Northing:	6811114.902		

Diamond Drill Log
Comprehensive Report for Hole: WV05-156

Hole WV05-156 was drilled to test the Wolverine horizon on Line 16940E and 16900N. The hole was also drilled for piezometer installation and Packer testing. This hole intersected 0.9m of massive sulfide between 170.50m and 171.40m consisting of 70-80% pyrite, 2-4% sphalerite, 3-5% chlorite, 2-4% carbonate, and 5-10% quartz. The foliation of the ore body was generally 60 degrees to ca. which suggests a minimum true thickness of 0.77m ($\text{SIN}(45) \times 0.9\text{m} = 0.77\text{m}$). The immediate hanging wall was massive carbonaceous argillite and the immediate footwall was chlorite altered lapilli tuff. A Piezometer was installed in this hole. The core was logged and 28 samples were taken including 1 standard, 1 blank, and 1 duplicate, and submitted to ALS Chemex.

Depth	Dip	Azimuth
0.00	-75.0	60.0
35.70	-74.4	61.6
78.40	-78.1	78.2
121.00	-78.7	87.7
163.70	-79.0	110.8
181.10	-77.7	119.1

From	To	Rocktype & Description	S_from	S_to	Sample	Width
0.00	14.30	DHOB				
14.30	17.40	RHFF <i>Interval includes some exotic blocks of the overburden above, ie. siliceous rhyolite, etc. Mostly thinly bedded, closely packed tuffs. Broken and blocky, poor recovery, not much to work with.</i>				
17.40	18.90	RHFF <i>I would have logged this as RHAL, which is not in the dictionary. Very blocky, poor recovery. Appears to be mostly thinly bedded ash tuffs, but some chips are dark grey rhyolite, showing concave fracture, ie. massive rhyolite.</i>				
18.90	19.00	RHTT <i>RHTT ? Closely packed, stretched, medium grey, highly siliceous felsic lapilli plus a few fine lapilli, in a dark grey to black matrix. One lapilli is 6 cm long X 1 cm wide. Very blocky, with poor recovery. Matrix is « chl 10.00-15.00% ».</i>				
19.00	25.00	RHTT <i>RHTT/RHAL. Fine, highly stretched, closely crowded lapilli, dark grey, siliceous and felsic in a dark grey to black matrix of « chl 10.00-15.00% » with lesser « ser 2.00-5.00% ». Minor thread-like, rusty fractures, « bedding 5.00° ». Still very broken and blocky.</i>				
20.48-20.51:		<i>Small breccia, with subangular dark grey rhyolite fragments in a dark grey to black matrix.</i>				
25.00	26.50	RHFS <i>Medium grey and massive. Cut by thin, irregular « chl 2.00-4.00% » filled fractures, plus « minor ser 1.00-2.00% ». Still very blocky. Trace « carb 1.00% » on one blocky piece of core.</i>				
26.50	30.00	RHLT <i>Very fine, crowded, highly stretched lapilli and fine siliceous bands in a « chl 5.00% » matrix with « minor ser 2.00% ».</i>				
30.00	31.68	STGG <i>Fault gouge with angular fragments of the unit above.</i>				
31.68	32.70	RHFS <i>Massive, grey to beige with what appear to be late, closely packed felsic lapilli in a black, « chl 10.00-12.00% » matrix. More likely highly crackle fractured, with the fracs displaying a preferred orientation of 70-80, but go to 45 deg. near 32.5 m.</i>				
32.70	32.90	RHLT <i>Medium grey with minor beige interbands. Fine stretched lapilli throughout, in a black chloritic matrix. Lapilli are extremely stretched, 25 mm long by 2 mm</i>				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		wide. « foliation 60.00° ». May be some fine ash fall tuff beds, « chl 10.00% ».				
		32.90 38.70 RHLT RHAL ? Dark grey, with fine, darker, stretched lapilli. Mostly ash tuff, « bedding 60.00° », « chl 15.00% ». Very poor recovery. Fine grey « carb 2.00-4.00% » str along the foliation planes, plus pervasive carbonatization. Fault gouge at end, with angular fragments of this unit.				
		38.70 40.80 EXSP Grey and glassy, with a few fracture planes coated in « chl 2.00-3.00% ». Tr disseminated « py 1.00% ». Completely broken into small angular pieces.				
		40.80 41.20 RHFF RHTT ? Dark grey and fairly massive, with a few stretched lapilli, plus very fine stretched dark mafics now chloritized, « chl 1.00-2.00% ». Coarse-grained clots of « py 1.00% », « bedding 55.00° ».				
		41.20 41.60 EXMT Interbanded black, fine-grained, magnetite- rich bands « mag 25.00-30.00% » and greyish-white silica-rich bands, with fine disseminations of magnetite. Primary banding « bedding 50.00° », lower contact (@ 41.60 contact 60.00°). Coarse-grained, recrystallized « py 1.00-2.00% ».				
		41.60 41.85 RHMS Dark brownish-grey and massive, « S1 55.00° », defined by hairline « chl 2.00-5.00% » covered bedding planes. Disseminated « py 1.00% ». gradational contact with below.				
		41.85 42.10 RHFF RHTT ? Similar to the above, but darker grey and thinly bedded, with very fine-grained, stretched mafics and some white, stretched, overprinted feldspars, « chl 5.00% », fine-grained « py 5.00-7.00% », « cpy 1.00% ». « S1 60.00° ». No magnetite.				
		42.10 44.70 EXMT Dark grey and finely bedded, with silica and magnetite-rich beds. Beds of magnetite are pencil-thin to +20 cm wide, « mag 30.00% ». Coarse-grained, recrystallized, disseminated « py 5.00-10.00% ». Lower contact (@ 44.70 contact 40.00°).				
		42.2-42.27: Semi-massive, fine-grained py « py 85.00% » band, « 42.20- 42.27 bedding 55.00 »				
		43.2-43.34: White to greenish-white quartz vein, « chl 5.00-10.00% ». Deformed, irregular contacts.				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		43.34-44.7: Almost massive, fine-grained magnetite, « 43.34- 44.70 mag 75.00%», with « py 10.00-15.00%», disseminated and as discontinuous stringers. Numerous quartz « stringers », very deformed, whitish-grey to glassy white.				
		44.70 45.20 EXSP Lighter and darker grey interbands, « bedding 75.00-80.00°»; « chl 2.00-3.00%» defines some bedding planes. Disseminated « py 2.00-4.00%».				
		45.20 45.50 EXMT Similar to the unit above, with 5-7 cm wide magnetite « mag 10.00%» rich bands plus silica-rich bands with very fine-grained, disseminated magnetite. Bedded « bedding 60.00°», « py 3.00-5.00%».				
		45.50 46.00 EXSP Pale grey, cherty, very vaguely bedded, with bedding planes marked by « chl 2.00-4.00%». Disseminated « py 2.00-3.00%».				
		46.00 46.40 RHLT Dark grey and siliceous, with very fine-grained, stretched, lighter grey lapilli, « chl 5.00%». Poor recovery.				
		46.40 50.20 EXSP ale grey, massive and cherty, with a few darker interbands. Broken and blocky, « py 1.00%», disseminated.				
		47.6-50.2: Large angular pieces of chert in fault gouge.				
		50.20 51.15 EXMT Dark grey, with silica and chl-rich bands. Weakly magnetite-rich, « mag 5.00%», disseminated « py 2.00-3.00%». Primary bedding, « S1 60.00°» to CA.				
		51.15 54.00 EXSP Medium grey, massive silica, with « py 5.00%» as disseminated and fine bands.				
		54.00 69.20 DHLC No recovery.				
		69.20 72.00 ARCB Very poor recovery. Black with lighter grey siliceous interbands, « pervasive carb 10.00%». Bedding « S1 60.00°».				
		72.00 75.30 ARMS Dark grey to black, thinly bedded « bedding 50.00°». Minor graphite « graph 5.00%« py 2.00-3.00%» along fractures.				
		75.30 76.00 EXSP Pale grey and siliceous with trace disseminated « py 1.00%». Very poor recovery, with small, angular chips.				
		76.00 76.25 QTVN				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		Greyish-white, milky to glassy, « chl 5.00% » partings. Very broken and blocky. 76.25 76.50 STGG				
		Clay-rich fault gouge of the unit below. 76.50 81.30 ARMS				
		Dark grey to black, weakly bedded « S1 60.00° », but very rubbly core. 81.30 86.30 ARTF				
		Volcanosediments. Numerous very elongate grey felsic (siliceous) lapilli, in a dark grey to black ash tuff (to argillaceous) matrix. There are also some siliceous bands that may represent larger lapilli. « S1 55.00° ». Graphite « graph 2.00-4.00 », thin « stringers » of « py 1.00% ».				
		82.7-86.3: Fewer large lapilli, more of a true argillite with a few lapilli preserved.				
		85.8-85.82: Massive band of « py 98.00% », coarse-grained and recrystallized. 86.30 88.90 EXSP				
		EXSP/RHTT Very broken, with poor core recovery, but appears to be interbanded cherty exhalative and very fine grained, siliceous rhyolite tuff. Former is greyish-white and massive to grey and glassy, with trace « py 1.00% ». Latter has very fine-grained, highly stretched, closely packed siliceous lapilli in a « ser 10.00% » matrix. « S1 60.00° », as is one visible contact. Brecciated at the beginning.				
		88.90 90.00 QTVN				
		Several generations of quartz, cracked and rehealed, greyish-white to white and massive, to clear grey. Green « chl 5.00-7.00% » and coarse « stringers » and clots of « py 10.00% ».				
		89.85-90.0: Later bull milky white quartz vein near parallel to the CA. 90.00 90.60 RHLT				
		Medium grey with siliceous banding and thin tuff beds, containing very fine (1-5 mm long), stretched, crowded grey lapilli in a matrix of « chl 5.00% » and « ser 5.00% ». « S1 65.00° », « py 1.00-2.00% » mostly in irregular, late fractures.				
		90.60 91.00 QTVN				
		Bull white to yellowy-white, massive, « minor chl 5.00-7.00% » partings. Can't measure contacts.				
		91.00 95.70 RHLT				
		Fairly massive rhyolite (RHMS) with beds containing very fine-grained, highly stretched siliceous lapilli, slightly darker grey in a lighter grey matrix of silica, « S1 50.00° », trace « py 1.00% », « ser 5.00% ».				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		92.6-92.7: Milky white quartz vein, as above, very broken and blocky.				
		94.8-95.7: Gravel, very little recovery, but same rock type.				
		95.70 97.80 EXMT				
		Well bedded, « S1 50.00° », with lighter and darker grey interbands. Weakly magnetic, with very thin magnetite « mag 3.00-5.00 » beds. Some net-textured « py 2.00-3.00% ». Broken and blocky, especially at the end.				
		97.80 101.00 ARGR				
		Black and fine-grained, poor recovery, with clay fault gouge throughout. Stockworks of creamy white « carb 5.00-10.00% ».				
		101.00 105.80 EXMT				
		101.0-101.3: Light and dark grey interbands, silica-rich and ash fall tuff/argillite-rich. Bedding, « S1 30.00-40.00° », but somewhat disrupted. Net-textured « py 1.00-3.00% ».				
		101.3-101.5: Very thin beds of silica, grey to greyish-white, and marked by « ser 2.00-5.00% ».				
		101.5-103.6: Similar but darker grey with extremely disrupted bedding, brecciated in places. Moderate « carb 5.00-10.00% » altered, some as broken white « stringers ». Patchy magnetite rather than distinct layers, plus some fine disseminations, « 101.50- 103.60 mag 10.00-15.00% ».				
		103.6-104.0: Paler grey, less siliceous, more « chl 5.00-10.00% » and « ser 2.00-5.00% ». Fine disseminated magnetite « 103.60- 104.00 mag 2.00-4.00% » and coarse-grained recrystallized « py 3.00-5.00% ».				
		104.0-104.45: Similar, but moderately « carb 7.00-10.00% » altered.				
		104.45-105.4: Near massive magnetite « 104.45- 105.80 mag 75.00% », with disseminated coarse-grained « py 5.00-7.00% ». Numerous irregular « carb 10.00% » « stringers ». Vague banding, « S1 55.00° ».				
		105.4-105.8: Much less magnetite, « 105.40- 105.80 mag 2.00-5.00% ».				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
105.80	109.80	<p>RHFS <i>Pale grey and fairly massive. Bedding planes, « S1 65.00°», marked by fine « chl 5.00%», with disseminated « py 3.00-5.00%» and orangy-brown « sph 1.00%».</i></p> <p><i>106.8-108.1: Cut by irregular, whitish-grey « carb 3.00-5.00%» stringers.</i></p> <p><i>108.1-108.6: Broken and blocky, fault gouge in part.</i></p> <p><i>108.6-109.8: Similar, but more black « chl 15.00-20.00%». Irregular « carb 5.00%» « stringers ». Qtz-chl vein at 109.3-109.6.</i></p>				
109.80	114.35	<p>RHFF <i>RHTT ?? Medium greyish-beige and thinly bedded, « S1 30.00°», with bedding a bit disrupted and displaced. Possible fine lapilli. Matrix is « chl 7.00-10.00%», « ser 10.00%» and fine-grained « py 15.00-20.00%». pervasively « carb 10.00%» altered.</i></p> <p><i>110.6-110.65: Milky white quartz vein, at 60 degrees.</i></p> <p><i>110.9-11.3: Dark grey, more « chl 10.00-15.00%».</i></p> <p><i>11.3-11.6: Fault gouge.</i></p> <p><i>11.6-114.35: Greyish-beige and much finer-grained, with a few possible fine lapilli. Cut by « carb 5.00%» « stringers ». Very poor recovery.</i></p>				
114.35	116.40	<p>ARGR <i>Black and graphitic. Some bedding planes, « S1 60.00-65.00°» are so intensely graphitic that they are shiny. There are beds throughout of fine, paler grey, siliceous lapilli. Minor « carb 2.00-4.00%» « stringers », and « py 1.00-3.00%» stringers.</i></p>				
116.40	119.90	<p>RHFS <i>Moderately grey, siliceous and fairly massive, with dark grey interbeds at the start, changing to greenish-brownish grey. These beds, at 60 degrees, are less prevalent than the siliceous ones. The greenn-brown are « chl 10.00%» rich, with « ser 2.00-5.00%». Fine disseminated « py 1.00%».</i></p> <p><i>119.0-119.2: More highly siliceous, pale grey, with fewer dark interbeds.</i></p>				
119.90	124.00	<p>ARMS <i>Dark grey with very fine bedding planes marked by graphite. « S1 65.00°». Some</i></p>				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		beds are lighter grey and more siliceous. Pale greyish-white « quartz stringers » along some bedding/foliation planes, plus thready « py 1.00-3.00% ». Not « carb » altered.				
		122.0-122.3: Irregular « carb 25.00% » stockwork.				
		124.00 130.75 RHFS				
		Competant unit with good recovery. Pale grey, with lighter grey interbands. Almost pure silica. Some of the darker, thin beds are « chl 3.00-5.00% » and « ser 5.00-7.00% » altered, and may represent thin ash fall tuff beds. Disseminated « py 1.00-3.00% » throughout. « S1 55.00° ». Trace « cpy 1.00% » and « sph 1.00% ».				
		124.0 124.3: Transitional zone with dark grey siliceous beds.				
		128.3-129.1: Probable stretched lapilli, 25 mm by 5 mm, lighter grey and siliceous.				
		129.3-129.5: Open cavity with calcite crystals, 15-20%.				
		.30.75 131.40 ARMS				
		Dark grey to black with lighter grey, siliceous interbeds. Some irregular, boudinaged « quartz stringers ». Late fractures at 30 degrees cut the foliation, and contain trace « py 1.00% ».				
		130.75-130.8: Broken, graphitic, minor fault zone.				
		131.40 131.90 RHFF				
		RHTT ? Pale grey stretched lapilli, 2-3 cm long, in a darker matrix of sil-chl, « chl 5.00-10.00% », with « minor ser 1.00-2.00% ».				
		131.6-131.75: White carb-qtz stringer, very ragged contacts.				
		131.90 135.00 RHFS				
		Pale grey, massive, hard and siliceous. Faint, widely spaced bedding planes marked by « chl 2.00-4.00% » and « py 1.00-2.00% ». Pale overprinted subangular feldspars (?) or leucoxenes.				
		135.00 136.55 RHAR				
		Pale grey aphanitic rhyolite with 25-35% darker grey argillite bands. The latter could be fine ash fall tuff beds.				
		136.55 138.20 RHFS				
		136.55-136.8: Medium grey, hard and siliceous with lighter and darker grey interbeds. « Chl 5.00% » with « ser 5.00-10.00% » rich interbeds, « py 1.00% ».				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		Minor deformed « carb 1.00%» stringers.				
		136.8-138.2: More massive, with fewer thin « chl 3.00-5.00%» partings, « py 1.00-3.00%», virtually no « ser 1.00-2.00%« S1 60.00°».				
		138.20 138.80 RHAR				
		Not a big change from above, but more dark interbands, which have some « chl 10.00-15.00%», but are highly siliceous.				
		138.80 163.70 ARSI				
		Dark grey with lighter grey, highly siliceous interbands. gradational contacts with the above. Becomes more carbonate-rich down the hole, with white, deformed carb-qtz « stringers » and local pervasive carbonatization; « py 1.00-3.00%» is more prevalent at the start of the section with « py 10.00%».				
		140.3-140.55: White to greyish-white quartz, white « carb 10.00-15.00%», with « minor chl 2.00-3.00%» and « py 1.00%». Lower contact ‹ @ 140.55 contact 60.00°				
		».				
		145.4-163.7: Virtually no recovery.				
		163.70 165.55 ARCB	163.70	165.55	B204846	1.85
		Dark grey to black and finely bedded, « S1 60.00°», with very irregular, discontinuous « carbonate stringers ». Pervasively « carb 10.00-15.00%» altered, « py 2.00-5.00%».				
		165.5-165.55: Broken core, but massive band of « py 70.00-75.00%» with dark brown « sph 20.00-25.00%».				
		165.55 170.50 ARMS	165.55	166.10	B204847	0.55
		165.55-166.1: Paler grey, soft and schistose, clay-rich, adjacent to fault zone.	166.10	166.40	B204848	0.30
			166.40	167.00	B204849	0.60
			167.00	167.80	B204850	0.80
		166.1-166.5: Fine argillite fragments in a graphitic clay matrix. Fault zone.	167.80	169.10	B204825	1.30
			169.10	170.50	B204826	1.40
		166.5-169.9: Black, fine-grained, almost massive. « S1 50.00°». Very thin, wispy white « qtz-carb stringers », « py 4.00-5.00%», mostly in semi-massive stringers, including one at 167.0-167.05. Small fault zone, 169.2-169.4. More carbonate from 168.3-168.5.				
		169.9-170.5: paler grey, cut by irregular « carbonate stringers », with remobilized « py 1.00-3.00%» and « sph 1.00%». More « py 2.00-3.00%» along				

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		'he foliation planes.				
170.50	171.40	PYMS Mostly fine-grained « py 70.00-80.00% » in a gangue of « qtz 5.00-10.00% », « chl 3.00-5.00% » and « carb 2.00-4.00% »; « sph 2.00-4.00% » overall, but elevated at the start. Both contacts at 60 degrees.	170.50	171.40	B204827	0.90
		170.65-170.80: Thin, very disrupted argillite beds.				
		171.05-171.4: Thinly banded, « S1 60.00° », with elevated « sph 10.00-15.00% ».				
171.40	172.60	RHFF RHFF ? Dark grey with a range of lapilli sizes, from coarser, pale grey, to extremely fine, greyish-green, closely packed lapilli. Matrix is « chl 5.00-10.00% » and « carb 3.00-5.00% ». Course-grained disseminated « py 10.00-15.00% » and « cpy 2.00-4.00% », galena « gal 1.00% ».	171.40	172.60	B204828	1.20
			171.40	172.60	B204829	1.20
		171.4-171.6m - Graphitic argillite, shiny, poor recovery, partly fault gouge.				
172.60	175.77	ARCB Medium grey with pervasive « carb 5.00-10.00% », plus very thin black interbeds, py 1.00-2.00% ». « S1 55.00° ».	172.60	173.60	B204830	1.00
			173.60	175.10	B204831	1.50
			175.10	175.77	B204832	0.67
		173.4-173.7: Massive, f.g., black.				
		173.7-173.8: Semi-massive, « py 60.00-70.00% », in a matrix of « carb 10.00-15.00% » and « sil 5.00-10.00 ».				
		173.8-174.0: ARCB				
		174.0-174.3: Semi-massive « py 100.00% » band, as above, (@ 174.00 contact 55.00).				
		174.3-175.77: Many broken « carb » « stringers ». Stringer zone of « py 25.00-30.00% », with « sph 1.00% », trace « cpy 1.00% ».				
		175.65-175.77: Semi-massive « py 65.00-75.00% » band, « chl 5.00% », « carb 5.00-10.00% », « sph 2.00-4.00% ».				
175.77	177.75	RHST 175.77-176.45: Glassy grey, closely packed siliceous lapilli in a lime green matrix of « ser 5.00-15.00% », « chl 2.00-3.00% » and « py 2.00-10.00% ». Thick « carb 10.00-15.00% » bands.	175.77	177.75	B204833	1.98

From	To	Rocktype & Description	S_from	S_to	Sample	Width
		176.45-176.75: Semi-massive band of « py 70.00-80.00%», « carb 2.00-5.00%» plus thin bands of blackjack « sph 2.00-4.00%».				
		177.75 181.40 RHFF	177.75	177.75	B204834	0.00
		RPQL	177.75	179.30	B204835	1.55
			177.75	179.30	B204836	1.55
		176.75-179.9: Sericite-rich lapilli tuff. Lapillis are fine-grained, highly stretched, pale whitish-grey. There are also some bluey-grey quartz grains (not really eyes), plus some dark grey quartz eyes, fine-grained, 2-3% locally. Matrix is « ser 5.00-7.00%», « chl 1.00-3.00%» and « py 2.00-5.00%».	179.30	180.30	B204837	1.00
			180.30	181.40	B204838	1.10
			180.30	181.40	B204839	1.10
		179.9-180.2: Semi-massive « py 40.00-50.00%».				
		181.40 183.80 RHFF	181.40	182.70	B204840	1.30
		RHTT? Very fine, grey, siliceous lapilli in a sericitic matrix, grading back and forth in a py-rich matrix; « ser 5.00-10.00%», « py 40.00-60.00%». Some lapilli are bluey-grey in colour. Local carb-rich bands.	182.70	183.80	B204841	1.10
		182.2-182.55: Semi-massive « py 85.00-90.00%», « chl 5.00%», « sph 1.00-2.00%».				
		183.3-183.8: More « chl 15.00-20.00%» rich, almost argillaceous, with semi-massive pyrite over the last 0.15 m.				
		183.80 186.20 RHFF	183.80	184.80	B204842	1.00
		RHTT ?? Closely packed grey and greyish-white lapilli, fine-grained in a paler grey, siliceous matrix with some « chl 5.00-7.00%», « py 2.00-5.00%», « ser 2.00-5.00%». « S1 55.00°».	184.80	186.20	B204843	1.40
		186.20 188.10 ARMS	186.20	187.30	B204844	1.10
		Dark grey, a bit graphitic, with « minor carb 3.00-5.00%» stringers.	187.30	188.10	B204845	0.80
		188.10 194.20 RHFF				
		RHTT, as described above.				
		191.1-194.2: Very little recovery.				
		194.20 194.20 EOH				