



DRILL LOG

Project: Hyland	Collar Elevation (m): 1126.0
Hole HY10-28	Azimuth (°): 90.0
Location: 6709540 m North 563066 m East	Dip (°): -60.0
Logged by: N.Perk	Length (m): 185.01
Drilled by: APEX Drilling	Horizontal Projection:
Assayed by: ACME	Vertical Projection:
Core Size: HQ-NQ	Objective Hole HY10-28 was designed to test an intense Fe-OX gossan (thought to be sub-vertical) approximately 950m north of the Main Zone. The gossan is mappable south to the Main Zone.
Date Started: 2010/08/02	
Date Completed: 2010/08/04	
Dip Tests By: Icefields tool	

Summary Log:

From/To	Rock Type	Comments
0.00-5.49 m	Casing	
5.49-40.08 m	Quartzite	1/3 of this unit is semi-massive to massive sulphide, with varying % of pyrite up to 40% and arsenopyrite up to 70%.
40.08-48.20 m	Siltstone	1% pyrite and 0.3% arsenopyrite
48.20-73.90 m	Quartzite	2-5% pyrite and 0.5-1% arsenopyrite
73.90-99.40 m	Limestone	1% pyrite with trace arsenopyrite
99.40-117.75 m	Quartzite	0.7% pyrite with trace arsenopyrite
117.75-157.83 m	Phyllite	10% pyrite and 1 % arsenopyrite from 124.36-127.35 m, 1% pyrite with trace arsenopyrite elsewhere
157.83-185.01 m	Quartzite	25% pyrite and 0.5% arsenopyrite from 164.40-165.35 m, trace pyrite elsewhere

NB: Geochemistry does not support existence of abundant arsenopyrite as originally logged. Weakly magnetic "arsenopyrite" described in logs and core photos indicate sulphide is pyrrhotite. Arsenopyrite has been replaced with pyrrhotite in logs.

-RSB: March 23, 2011



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Project: Hyland

Hole ID: HY10-28

Downhole surveys:

Depth	Dip	Azimuth
0.00	-60.00	90.00
54.90	-59.80	81.60
176.80	-58.60	81.90

Project: HYLAND				Hole Number: HY10-28									
From	To	Rocktype	& Description		py	chp	From	To	Width	Sample	Au ppm	Ag ppm	As ppm
0.00	5.49	CASN		0									
CASING													
5.49	40.08	QRZT		5			5.49	7.01	1.52	559417	178.00	0.60	2070.00
QUARTZITE: Dark grey unit of interbedded quartzite and siltstones. ~30% of this unit is semi-massive to massive sulphide consisting of PY-PO with trace CP. It is difficult to recognize the protolith within the massive sulphides. Outside the massive sulphide zones, the quartzite and siltstone are well mineralized. Mineralization is typically as stockwork within the quartzite and more pervasive within the siltstone. Sulphide mineral ratios change dramatically from massive pyrite to massive pyrrhotite. Massive pyrrhotite zones are magnetic (likely some magnetite mixed in, but difficult to see). The lower contact is a fault at nearly 90 deg to core axis. Mineralization is present below the fault, but much less intense.				10			7.01	8.53	1.52	559418	80.00	0.20	4029.00
							8.54	10.06	1.52	559420	150.00	0.20	2442.00
							10.06	11.58	1.52	559421	468.00	0.30	2535.00
							11.58	12.58	1.00	559422	77.00	0.30	1306.00
							12.58	13.56	0.98	559423	60.00	-0.10	961.00
							13.56	14.63	1.07	559424	249.00	0.20	1371.00
							14.63	15.50	0.87	559426	113.00	0.70	595.00
							15.50	16.90	1.40	559427	96.00	0.20	1763.00
							16.90	18.20	1.30	559428	58.00	0.20	1728.00
							18.20	19.80	1.60	559429	331.00	0.50	6871.00
							19.80	21.00	1.20	559430	94.00	0.10	897.00
Mineralization:							21.01	22.38	1.37	559432	151.00	0.10	1264.00
« 5.49- 13.56 Pyrite 15.0%» « Pyrrhotite 15.0%»							22.38	23.77	1.39	559433	164.00	0.20	671.00
« 13.56- 15.50 Pyrite 30.0%» « Pyrrhotite 15.0%»							23.77	25.30	1.53	559435	291.00	0.60	3218.00
« 15.50- 18.20 Pyrite 20.0%» « Pyrrhotite 10.0%»							25.30	26.82	1.52	559436	114.00	0.20	1347.00
« 18.20- 19.80 Pyrite 35.0%» « Pyrrhotite 35.0%»							26.82	28.35	1.53	559437	99.00	0.10	1438.00
« 19.80- 21.00 Pyrite 20.0%» « Pyrrhotite 10.0%»							28.35	29.87	1.52	559438	241.00	0.30	2122.00
« 21.00- 22.38 Pyrite 20.0%» « Pyrrhotite 60.0%»							29.87	31.39	1.52	559439	150.00	0.20	1782.00
« 22.38- 35.37 Pyrite 25.0%» « Pyrrhotite 15.0%» « Chalcopyrite 0.5%»							31.39	32.92	1.53	559440	50.00	-0.10	1559.00
« 35.37- 37.29 Pyrite 40.0%» « Pyrrhotite 20.0%» « Chalcopyrite 1.0%»							32.92	34.44	1.52	559441	161.00	0.30	668.00
« 37.29- 37.89 Pyrite 10.0%» « Pyrrhotite 70.0%»							34.44	35.37	0.93	559442	178.00	0.20	2810.00
« 37.89- 39.38 Pyrite 40.0%» « 37.89- 39.38 Pyrrhotite 30.0%»							35.37	37.29	1.92	559443	113.00	0.20	1652.00
« 39.38- 40.08 Pyrite 30.0%» « Pyrrhotite 20.0%»							37.29	37.89	0.60	559444	51.00	0.20	200.00
							37.89	39.38	1.49	559445	364.00	0.40	4183.00
							39.38	40.08	0.70	559446	279.00	0.60	574.00
Alteration:													
« 5.49- 10.50 Goethite 2.0*» « Limonite 1.0*»													
« 5.49- 40.08 Silicification 3.0*»													
Structure:													
< @ 18.20 Bedding (S0) 90.0° >													
< @ 28.20 Bedding (S0) 60.0° >													
< @ 39.38 Clay gauge Fault 70.0° 2cm >													

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*graphic log not to scale

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Project: HYLAND						Hole Number: HY10-28						
From	To	Rocktype & Description		By	App	From	To	Width	Sample	Au ppm	Ag ppm	As ppm
< @ 40.08 Clay gauge, cuts off massive mineralization Fault 80.0° 5cm >												
40.08	48.20	SLTS	40			40.08	41.60	1.52	559447	14.00	-0.10	200.00
SILTSTONE: Cream-light green, fine grained, well foliated, thin bedded siltstone. Moderate sericite alteration throughout the unit gives a light green colour. A weak QZ-PY-PO stockwork is present throughout the unit.						41.60	43.59	1.99	559448	3.00	-0.10	46.00
						43.59	45.11	1.52	559449	9.00	-0.10	22.00
						45.11	46.60	1.49	559450	-2.00	-0.10	29.00
						46.60	48.20	1.60	559451	3.00	-0.10	22.00
Mineralization:												
« 40.08- 48.20 Pyrite 1.0%» « Pyrrhotite 0.3%»												
Alteration:												
« Sericite 2.0*»												
Structure:												
< @ 40.43 Clay gauge Fault 80.0° 3cm >												
< @ 40.60 Bedding (S0) 65.0° >												
< @ 41.62 Clay gauge Fault Breccia 55.0° 1cm >												
< @ 44.70 Quartz Pyrite Arsenopyrite Vein 65.0° 1cm >												
48.20	73.90	QRZT	50			48.20	49.70	1.50	559452	150.00	-0.10	3884.00
QUARTZITE: Grey to cream coloured, strongly silicified, massive quartzite with siltstone interbeds up to 2m thick. A moderate-strong QZ-PY-PO stockwork occurs throughout.						49.70	51.21	1.51	559453	279.00	0.20	5472.00
						51.21	52.70	1.49	559454	53.00	-0.10	742.00
						52.70	54.25	1.55	559455	49.00	0.10	503.00
						54.25	55.80	1.55	559456	152.00	0.30	2414.00
Mineralization:						55.80	57.30	1.50	559457	65.00	-0.10	285.00
« 48.20- 69.45 Pyrite 5.0%» « Pyrrhotite 1.0%»						57.31	58.80	1.49	559459	21.00	0.10	163.00
« 69.45- 73.90 Pyrite 2.0%» « Pyrrhotite 0.5%»						58.80	60.35	1.55	559460	10.00	-0.10	92.00
Alteration:						60.35	61.90	1.55	559461	27.00	0.30	181.00
« 48.20- 69.45 Silicification 3.0*»						61.90	63.40	1.50	559462	41.00	0.10	381.00
« 69.45- 73.90 Silicification 2.0*»						63.40	64.90	1.50	559463	115.00	-0.10	575.00
Structure:						64.90	66.45	1.55	559464	116.00	0.50	601.00
< @ 53.30 Bedding (S0) 65.0° >						66.45	68.00	1.55	559465	167.00	0.70	443.00
< @ 57.30 Bedding (S0) 55.0° >						68.00	69.49	1.49	559466	63.00	0.30	247.00
< @ 72.54 Bedding (S0) 55.0° >						69.49	71.00	1.51	559468	21.00	0.20	218.00
			65			71.00	72.54	1.54	559469	-2.00	-0.10	30.00
			70			72.54	73.90	1.36	559470	5.00	-0.10	27.00

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Project: HYLAND				Hole Number: HY10-28									
From	To	Rocktype	& Description	by	Asp	From	To	Width	Sample	Au ppm	Ag ppm	As ppm	
73.90	99.40	LMST	<p>LIMESTONE: Grey to black coloured, thinly bedded, foliated, silty limestone which is locally phylitic. Unit is very broken up along foliation planes which are bedding concordant. cm scale siltstone interbeds occur throughout. Strong calcite veining occurs through, typically mm-cm scale, and bedding concordant, but locally up to 20cm. Unit is faulted in several locations with clay and sand gauge present.</p> <p>Mineralization:</p> <p>« 73.90- 99.40 Pyrite 1.0%» « Pyrrhotite 0.1%»</p> <p>Alteration:</p> <p>« Graphite 1.0*»</p> <p>Structure:</p> <p>< @ 78.64 Bedding (S0) 80.0° ></p> <p>« 83.30- 90.00 flz »</p> <p>< @ 87.78 Bedding (S0) 80.0° ></p> <p>< @ 96.93 Bedding (S0) 60.0° ></p>										
99.40	117.75	QRZT	<p>QUARTZITE: Grey to cream coloured, moderately silicified, massive quartzite with silty limestone interbeds up to 2m thick. PY-PO mineralization is weaker than above units, and is pervasive rather than as stockwork.</p> <p>Mineralization:</p> <p>« Pyrite 0.7%» « Pyrrhotite 0.1%»</p> <p>« 101.30- 102.70 Galena 0.1%» « Sphalerite 0.5%»</p> <p>Alteration:</p> <p>« Silicification 2.0*»</p> <p>Structure:</p>										

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Project: HYLAND				Hole Number: HY10-28							
From	To	Rocktype	& Description	From	To	Width	Sample	Au ppm	Ag ppm	As ppm	
<p>< @ 100.70 Bedding (S0) 85.0° ></p> <p>« 105.50- 106.25 Fault »</p> <p>< @ 108.70 Fault 30cm ></p> <p>< @ 115.20 Bedding (S0) 70.0° ></p> <p>117.75 157.83 PHYL</p> <p>PHYLITE: Grey to black, thinly bedded, strongly foliated, platy, limy phyllite. Unit could equally be described as a phyllitic limestone, however it appears much more phyllitic than other units observed, and is therefore described as a phyllite. Calcite veining up to 2cm occurs throughout, typically concordant the foliation, but locally cross cutting. Foliation is nearly perpendicular to core axis throughout. Folding occurs throughout. Unit is highly broken along foliation planes, resulting in 'poker chip' type core.</p> <p>Mineralization:</p> <p>« 117.75- 124.36 Pyrite 1%» « Pyrrhotite 0.1%»</p> <p>« 124.36- 127.35 Pyrite 10.0%» « Pyrrhotite 1.0%»</p> <p>«127.35-157.83 Pyrite 1.0%» « Pyrrhotite 0.1%»</p> <p>Alteration:</p> <p>« 117.75- 157.83 Graphite 1.0*» « Sericite 1.0*»</p> <p>Structure:</p> <p>< @ 127.00 Bedding (S0) 90.0° ></p> <p>< @ 127.36 Clay gauge Fault 1m ></p> <p>< @ 133.50 Bedding (S0) 90.0° ></p> <p>< @ 134.50 Fault 10cm ></p> <p>< @ 135.00 Fault 5cm ></p> <p>< @ 142.00 Clay gauge Fault 60cm ></p> <p>< @ 145.69 Bedding (S0) 60.0° ></p> <p>< @ 147.30 Fault 5cm ></p> <p>< @ 150.50 Fault 3cm ></p> <p>< @ 151.79 Fault 30cm ></p> <p>< @ 154.50 Bedding (S0) 65.0° ></p>				117.75	119.50	1.75	559495	8.00	0.30	44.00	
				119.50	121.31	1.81	559496	7.00	0.10	53.00	
				121.31	124.36	3.05	559497	8.00	0.20	78.00	
				124.36	125.90	1.54	559498	25.00	0.20	1322.00	
				125.90	127.41	1.51	559499	25.00	0.20	902.00	
				127.41	130.45	3.04	559500	15.00	-0.10	101.00	
				130.45	133.50	3.05	560507	3.00	0.10	7.00	
				133.50	136.55	3.05	560508	2.00	-0.10	6.00	
				136.55	139.60	3.05	560509	2.00	-0.10	5.00	
				139.60	142.65	3.05	560510	3.00	-0.10	6.00	
				142.65	145.69	3.04	560511	-2.00	-0.10	8.00	
				145.70	148.74	3.04	560513	3.00	-0.10	7.00	
				148.74	151.79	3.05	560514	2.00	0.10	8.00	
				151.79	154.53	2.74	560515	2.00	-0.10	8.00	
				154.53	156.20	1.67	560516	2.00	-0.10	4.00	
				156.20	157.83	1.63	560517	14.00	-0.10	14.00	

[illegible]


Drill Log Legend




Bedding (S0)




CASN




Fault




LMST



QRZT



SLTS



Vein
foliation