Note: These drill logs are also contained within AR 097027 which is the full report for the 1977 work program on the Hop Claims.

091325

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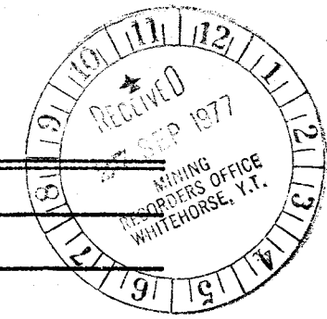
MINING DIVISION – WHITEHORSE
YUKON TERRITORY



PROPERTY Hop Claims Aishihik Lake 115H7	Claim No. Acme 12 & Hop 14 Fr.	Strike 60 deg. E	Lat. 10020.0 N	Hole No. TH-5
Date June 15th, 19 77	Section No.	Dip -80 deg.	Dep. 10076.1 E	Total Depth 152'
Logged By D. Tenney	Plan No.	Level Surface	Elev. 3871.1'	Page No. 1 of 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture
0.0	15.0	ob	overburden no recovery
15.0	152.0	ob	small and long pieces core interspersed with sections
			gravelly mud-rock types are mixed schist; porphyry dyke;
			white + black granite limestone (1 piece @ 146')
			This is probably all overburden with pebbles and boulders
			Hole stopped @ 152'

MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol

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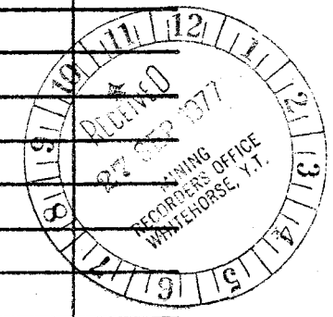
PROPERTY	Hop Claims Aishihik 115H7	Claim No.		Strike	240 deg. W	Lat.	10746.4 N	Hole No.	TH-6
Date	June 10th, 19 77	Section No.		Dip	-80 deg.	Dep.	10802.8 E	Total Depth	320'
Logged By	D. Tenney	Plan No.		Level	Surface	Elev.	3920.2'	Page No.	1 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0.0	7.0	ob	overburden										
7.0	172.0		Schist - brown grey quartz mica schist minor green sections										
			with actinolite? probably regional skarnification banding										
			60 - 80 deg. some at irregular angles - coring mainly good										
			moderate jointing - few silicified zones										
		--	0 - 27 weathered and rusty - strong jointing										
			11.5 - 12.5 white quartz alteration										
		S/3[a]	28.0 - 38.7 weakly to strongly skarnified schists +	cpy	tr.								
			actinolite minor fine grained pyrrhotite - speck chalco-										
			pyrite - current? bedding @ 28'										
		9[b]	38.7 - 41.1 fine/medium grained dark green grey basic										
			dyke - large 2 - 4 MM grey feldspar xtals (subangular)										
			good coring - contacts chilled 70 - 80 deg.										
		S/3[aq]	43 - 46 pale grey and green skarnification + quartz	cpy	tr.								
			actinolite - fine grained pyrite/pyrrhotite (1%) specks										
			chalcopyrite banding mainly destroyed										
			73.5 - 73.7 green actinolite-rich section 4% fine grained										
			pyrrhotite										
			81 - 88 silicified and weakly skarnified + actinolite	cpy									
			82 - 82.6 3% fine grained pyrrhotite + chalcopyrite	cpy	½%								
			95 - 95.5 similar to above - traces chalcopyrite	cpy	tr.								
			114 - 117 heavy silicification										



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Hole No TH-6 Page No 2 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
			132 - 133 weak pale green skarn formation + actinolite	cpy	tr.								
			tremolite 4% fine grained pyrrhotite traces chalcopyrite										
			135 - 136 as above										
			159 - 162 pale grey silicified weakly skarnified section + quartz										
			?tremolite - metaquartzite?										
			160.9 2 MM heavy disseminated fine grained chalcopyrite minor	cpy									
			pyrrhotite										
			120 - 172 good coring										

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Hole No TH-6 Page No 3 of 7

NO FLUORESCENCE

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
172.2	188.2	S	Schist - grey brown banded quartz mica schist banding 90°	cpy	tr.								
			good coring moderate jointing in minor sections - specks chalco-										
			pyrite										
			183 - 188.2 mainly strongly silicified specks chalcopyrite	cpy	tr.								
188.2	189.4	1/2^{ts}	pale grey and black tremolite (large blades xtals) + serpen-	cpy	2½%								
			tine magnetite (5%) skarn - very heavy fine grained pyrrhotite										
			(25%) specks blebs 1 MM stringer(s) chalcopyrite										
189.4	190.8	3/2^{t}	pale grey tremolite (90%) skarn felted xtal masses blebs	cpy	1¼ - 2%								
			2 - 4 MM magnetite (2%) specks chalcopyrite trace pyrrhotite -										
			N.B. - chalcopyrite is with pale green skarn mineral ? diopside										
			not in the tremolite good coring										
190.8	203.4	1^{sl}	dark green to black magnetite (60%) serpentine/talc skarn minor	cpy	1¼ - 2%								
			pyrrhotite - minor patches light grey tremolite good coring										
203.4	217.0	3/2/1^{tds}	mixed magnetite and silicate skarn (tremolite quartz acti-	cpy	¼%								
			nolite) magnetite (30%) is in patches and coarse grained blebs -										
			specks + minor blebs chalcopyrite										
			core ground @ 208.9; 210.1; 212.0 good coring!										
			212 - 217 broken core 3.5' lost - Fault	ASSAY SEPARATELY!									
			broken core is mainly pale green actinolite skarn with blebs										
			chalcopyrite; last 2" is high grade + pyrrhotite 217 - grinding										
217.0	219.1	9^{a}	pale grey feldspar porphyry dyke (lwr contact) 40° good coring										
219.1	230.2	3/2da	pale green unbanded actinolite diopside skarn		½%								
			very minor patches magnetite serpentine specks and blebs	cpy	½%								
			chalcopyrite - good coring										
		9^{b}	196.7 - 197.0 fine grained chilled dark green grey basic dyke	cpy	½%								
			fine grained chalcopyrite - upper contact @ 45°										
		9^{a}	238.5 - 238.8 fine grained pale grey feldspar sill contacts										
			@ 80°										

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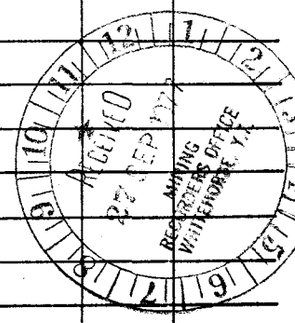
Hole No TH-6 Page No 4 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
230.2	244.5		skarnified schist - weakly to strongly skarnified green schist	cpy	½%								
			banded throughout @ 80 deg.+ actinolite - disseminated										
			chalcopyrite good coring										
			235.5 - 245.0 fine grained chalcopyrite	cpy	1%								
244.5	247.3	3/2 ats	pale green actniolite tremolite skarn fine grained	cpy									
			chalcopyrite and pyrrhotite - minor sections dark green										
			serpentine good coring										
			samples 183.2 - 188.2			8101	5.0	5.0	.08				
			188.2 - 193			8102	4.8	4.8	2.50				
			193 - 198			8103	5.0	5.0	.88				
			198 - 203.4			8104	5.4	5.4	1.82				
			203.4 - 208			8105	4.6	4.6	.78				
			208 - 212			8106	4.0	4.0	.08				
			212 - 217			8107	5.0	1.5*	.90				
			219.1 - 225			8108	5.9	5.9	.32				
			225 - 230			8109	5.0	5.0	1.44				
			230 - 235			8110	5.0	5.0	.22				



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Hole No TH-6 Page No 5 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
			235 - 240			8111	5.0	5.0	.62				
			240 - 245			8112	5.0	5.0	.88				

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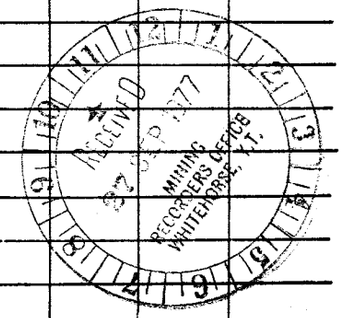
Hole No TH-6 Page No 6 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
247.3	248.0	3^{sM}	green to dark green serpentinous skarn										
248.0	255.6	9^{aff}	pale grey/green feldspar porphyry dyke 3 - 6 MM euhedral/subhedral feldspar phenocrysts fair coring										
255.6	261.1	3^{tad}	pale green fgr tremolite actinolite skarn minor pyrrhotite fair coring										
261.1	262.8	$3/2/1^{ds}$	pale green diopside actinolite skarn + section of black serpentine magnetite pyrrhotite - strong chalcopyrite (262.1 - 262.7)	cpy	½%								
262.8	265.1	3^{adt}	pale green actinolite tremolite diopside skarn - 1% vugs										
265.1	269.0	$3/2^{adt}$	pale green to dark green and grey actinolite tremolite diopside skarn fine grained pyrrhotite (1%) and chalcopyrite (especially 267.5 - 269.0)	cpy	3/4%								
269.0	279.5	3^{atd}	pale grey green actinolite tremolite diopside? skarn weak remnant banding in places @ 70 deg. - specks pyrrhotite and chalcopyrite good coring trace brown garnet	cpy	tr.								
279.5	282.7	2^{a}	dark green actinolite skarn specks + blebs disseminated chalcopyrite + pyrite/pyrrhotite (4%) good coring	cpy	1%								
282.7	295.0	3^{agq}	moderately banded green/brown and grey skarn + actinolite brown garnet and grey zones + quartz weak disseminated chalcopyrite + pyrrhotite (2%) in actinolite layers	cpy	¼%								



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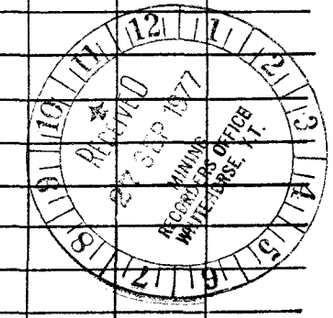
Hole No TH-6 Page No 7 of 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
295.0	301.3	3^{agq}	as above- minor pyrrhotite only - good coring										
301.3	315.5	$3/2^{ag}$	rich dark green actinolite skarn blebs garnet (2%) brown minor ?serpentine fine grained and blebs pyrrhotite chalcopyrite (heaviest 314 - 315.5) fair/good coring	cpy	½%								
315.5	320.0	3^{q}	silicified schist specks pyrrhotite and chalcopyrite good coring	cpy	tr.								
			samples 255.5 - 260			8134	4.5	4.5	NIL				
			260 - 265			8135	5.0	5.0	.22				
			265 - 270			8136	5.0	5.0	.26				
			270 - 275			8137	5.0	5.0	.02				
			275 - 280			8138	5.0	5.0	.06				
			280 - 285			8139	5.0	5.0	.44				
			285 - 290			8140	5.0	5.0	.04				
			290 - 295			8141	5.0	5.0	.02				
			295 - 300			8142	5.0	5.0	.02				
			300 - 305			8143	5.0	5.0	.01				
			305 - 310			8144	5.0	5.0	.04				
			310 - 315			8145	5.0	5.0	.34				
			315 - 320			8146	5.0	5.0	.06				



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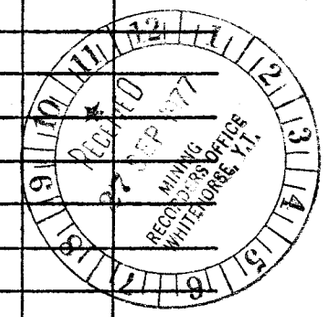
Whitehorse Copper Mines Ltd.

MINING DIVISION – WHITEHORSE
YUKON TERRITORY

TRACES FLUORESCENCE WITH U/V LAMP

PROPERTY	Hop Claims - Aishihik Lake 115H7	Claim No.	Acme 13	Strike	240 deg. W	Lat.	10750.8 N	Hole No.	TH-7
Date	June 9th, 19 77	Section No.		Dip	-80 deg. W.	Dep.	11205.4 E	Total Depth	351'
Logged By	D. Tenney	Plan No.		Level	Surface	Elev.	3939.6'	Page No.	1 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0.0	39.0	ob	sand and gravel										
39.0	54.0	ob	boulders, dyke, mafic diorite, granodiorite										
54.0	120.3	9^a	medium grained light grey/white feldspar porphyry ?dyke										
			2 MM - 1.5 CM white subhedral feldspar phenocrysts moderate										
			strong jointing fair to poor coring, most of core is										
			ironstained (weakly weathered) some rounded quartz "grains"										
			traces v. fine sulphides	py/pyh?									
		≈	54 - 71 v. broken core										
		=	71 - 85 jointed core										
			115 - 121 jointed core										
120.3	177.7		Schist - brown, pale green + grey mica quartz schist with										
			banding 70 - 80 deg. fair to good coring mainly moderate										
			jointing										
		≈	121 - 123 broken core with fault gouge 45 deg.?										
		--	124 - 130 jointing										
		--	144 - 146 jointing										
		9^b	165.4 - 165.9 fine grained dull dark green chilled dykelet										
			good coring										
			166.5 - 167 weakly skarnified speck chalcopyrite + actinolite										



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Hole No TH-7 Page No 2 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
177.7	184.5	9b	dull dark grey medium to fine grained basic dyke good coring - fine grained pyrite	py	2%								
184.5	187.2	9ab	medium fine grained buff coloured feldspathic dyke minor ? fine grained pyrite	py	1%								
			187.2 chilled contact @ 40 deg.										
			177.7 irregular chilled dark grey/black contact 70 deg.										
187.2	266.0		Schist brown green grey schist as above - some weakly silicified and skarnified sections banding 80 deg. fair/good coring moderate jointing	pyh	tr.								
			189.3 - 190.0 weakly skarnified feldspar rich section + actinolite fine grained chalcopyrite minor pyrrhotite	cpy	3/4%								
			208 - 210.3 brown alteration zone pyrrhotite minor pyrite										
			213.0 - 213.9 weakly skarnified + actinolite pyh. cpy (fine gr.)	cpy	¼%								
			214.5 - 215.0 - " -	cpy	tr.								
		3/2ads	223.6 - 224.4 dull pale green actinolite diopside serpentine skarn 4% pyrrhotite minor fine grained chalcopyrite good coring	cpy	½%								
			236 - 237 as above, 1% pyrrhotite trace chalcopyrite	cpy	tr.								
			261 - 266 heavy (near 100%) mica, banded + contorted										
		--	263 - 264 broken										
266.0	270.0		breccia dull grey light brown siliceous breccia - cemented; good coring; minor fine grained pyrrhotite	pyh	1%								
270.0	271.8		silicified and weakly skarnified schist										
271.8	276.4	3ads	pale green actinolite diopside serpentine skarn buff coloured carbonate patches minor py/pyh - trace cpy	cpy	tr.								

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Hole No. TH-7 Page No. 3 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
276.4	283.0	$3^{s}/5$	green serpentine magnetite zones in buff marble - serpentine	cpy	½%								
			contains moderate pyrrhotite and specks chalcopyrite fair coring										
283.0	285.8	$3^{s}/1$	dark green and black magnetite (75%) serpentine skarn + pyrrhotite	cpy	½%								
			minor pyrite and specks chalcopyrite good coring										
285.8	286.3	9^{b}	fine grained green/dark green basic dyke contacts @ 75 deg.										
286.3	286.5	3^{sM}	black + green magnetite serpentine skarn minor pyrrhotite										
286.5	289.0	$3/2^{td}$	white/pale green/grey tremolite diopside skarn fine grained	cpy	½%								
			pyrrhotite specks chalcopyrite 287.3 - 289.0										
289.0	301.3	5	white marble - minor pale green serpentine stringers										
301.3	320.6	$3/2^{at}$	dark green and pale grey actinolite tremolite skarn disseminated	py/pyh	½%								
			pyrrhotite pyrrhotite traces chalcopyrite good coring	cpy	tr.								
		5	314.2 - 316 white marble good coring										
320.6	334.5		Schist grey brown quartz mica schist banding 80 deg.										
		≈	331 - 334.5 jointing broken										
334.5	338.0	5	white marble weak banding good coring 60 deg.										
338.0	349.5		Schist as above banding 80 deg. good coring moderate jointing										
349.5	351.0	5	white marble good coring										
			Hole ends @ 351'										

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27 SEP 1977
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

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Hole No TH-7 Page No 4 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
			samples 301.3 - 308			8122	6.7	6.7	.14			.003/.11	
			308 - 314.2			8123	6.2	6.2	.04			.008/.10	
			314.2 - 320.6			8124	6.4	6.4	.32			.003/.14	

RECEIVED
27 SEP 1977
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

Whitehorse Copper Mines Ltd.

MINING DIVISION – WHITEHORSE
YUKON TERRITORY

091325

PROPERTY Hop Claims - Aishihik 115H7	Claim No. Acme 12	Strike 240 deg. W.	Lat. 10349.7 N	Hole No. TH-8
Date June 13th, 19 77	Section No.	Dip -80 deg.	Dep. 10822.8 E	Total Depth 318'
Logged By D. Tenney	Plan No.	Level Surface	Elev. 3894.1'	Page No. 1 of 3

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0.0	38.0	ob	sand and gravel - overburden										
38.0	62.4	ob	mixed boulders - granite (fine grained grey) porphyry dyke										
			black? amphibolite, and grey basic dyke minor schist										
			(silicified)										
62.4	174.0	S	Schist - brown and grey mica-quartz schist banding 80 deg.										
			weakly silicified and skarnified (green + ?actinolite) in										
			sections fair to good coring moderate jointing - minor										
			rusty joints										
		==	62.4 - 88 moderate to strong jointing										
			77 - 77.2 actinolite + fine grained pyrrhotite	pyh	2%								
			93 - 94 " + ?trace chalcopyrite	pyh	2%								
			106.0 " " "	pyh/cpy	tr.Cu								
			113 - 115 " " "	cpy	tr.Cu								
			143.5 - 143.6 " " "	cpy	tr.Cu								
			147 - 147.4 " " "	cpy	tr.Cu								
			148.3 - 148.4 " " "	cpy	tr.Cu								
			166.5 silicification - white quartz trace pyh-cpy	cpy	tr.Cu								

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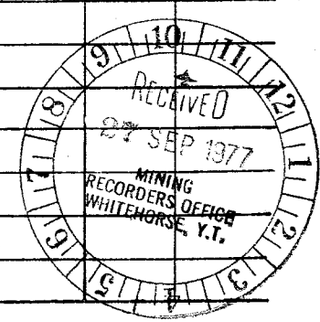
Hole No TH-8 Page No 2 of 3

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
174.0	190.0	S	Schist - brown and grey schist mica quartz - banding 80 deg. fair coring moderate jointing weakly silicified in places										
190.0	199.5	3^{fa}	white green feldspar, actinolite tremolite skarn - remnant banding good coring 1% pyrite minor pyrrhotite	py									
199.5	206.1	$3/2^{adt}$	white grey pale green actinolite tremolite diopside? skarn specks blebs pyrrhotite and chalcopyrite	cpy	½%								
206.1	220.1	$2/1^{tda}$	mainly silicate skarn + tremolite actinolite ?diopside specks and blebs of pyrrhotite and chalcopyrite magnetite 206 - 207.5; 210.8 - 212.4; 213 - 215.1; 218.7 - 219.0 good coring heavy chalcopyrite @ 210.5, 215.5, 219, 220	cpy	1½%								
			samples 199.5 - 206.0			8125	6.5	6.3	.22		.003	/.12	
			206.0 - 211			8126	5.0	5.0	1.54		.015	/.34	
			211 - 216			8127	5.0	5.0	1.15		.036	/.30	
			216 - 220.1			8128	4.1	4.1	1.10		.019	/.28	
			220.1 - 227.3			8129	7.2	7.2	0.23		.007	/.11	
220.1	231.2	$3^{d}/2$	pale green uniform texture diopside? skarn specks pyrrhotite chalcopyrite to 227.3 good coring + tremolite	cpy	< ¼%								
231.2	233.6	9^{a}	pale grey porphyry (feldspar) dyke ?silicified fair coring - moderate jointing contacts 85 deg.										
233.6	239.0	$3^{tda}/2$	pale grey and green tremolite actinolite ?diopside skarn weak remnant banding 80 deg. disseminated chalcopyrite traces fluorescent schectite	cpy WO_3(tr.)	¼%								



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YUKON TERRITORY

LAMPED 170 - 270

Hole No TH-8 Page No 3 of 3

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
239.0	270.0	S	Schist - banded (80 deg.) quartz mica schist - silicified and	py	tr.								
			skarnified in patches - traces pyrite										
		5	258.8 - 264 white marble; traces banding 75 deg.										
270.0	279.2	S	grey brown green weakly to strongly skarnified schist; fair										
			coring, some jointing										
279.2	280.5	9	grey green feldspar porphyry dyke - contacts 80 deg.										
280.5	286.5	S	Schist grey, green and brown silicified and skarnified schist;	py/pyh									
			minor pyrite pyrrhotite										
		--	282 - 283.5 jointing										
286.5	318.0	5	marble white (grey green) marble, weakly banded towards end 80 deg.										
			tremolite - good coring										
			Samples 227.3 - 231.2			8130	3.9	3.9	.04				
			233.6 - 238.6 tungsten			8131	5.0	5.0	.06				
			194.5 - 199.5			8132	5.0	5.0	.02				
			189.5 - 194.5			8133	5.0	5.0	.06				

091325

Whitehorse Copper Mines Ltd.

MINING DIVISION – WHITEHORSE
YUKON TERRITORY

PROPERTY	A.C. Thom- Aishihik	Claim No.	Acme 12 & Hop 13 Fr.	Strike	240° (W)	Lat.	9932.8 N	Hole No.	TH-9
Date	June 29 19 77	Section No.		Dip	-80	Dep.	10589.2 E	Total Depth	290
Logged By	A. Hureau	Plan No.		Level	surface	Elev.	3894.1 E	Page No.	1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture
0	36	ob	
36	36.5		rubble - boulders
36	37.8	7	granite, cream-coloured euhedral feldspar to 1 cm. with inter stital quartz (20% & hornblende 15%) Probably boulder
37.8	57.6	9b[F]	dark grey basic dyke locally anhedral grains (2 mm) white feldspar in grey ground mass, also black anhedral - subhedral grains chlorite ? to 2 mm. core leached and broken 40' - 50', 3' lost 40 - 51 numerous Ca filled fracts. to 3 mm.

MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol

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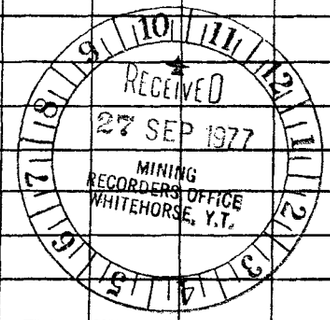
Hole No TH-9 Page No 2

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
57.6	73.5	Sch	schist, quartz muscovite bnds. highly silicified										
			bnding generally 80° core very broken, heavy py on fracts.	py	<1%								
			71 - 72										
73.5	78	9b	basic dyke as above lower contact along core										
			heavy py in sch 77 - 77.5	py									
78	83	sch	quartz muscovite schist as above bnding 75 - 80°										
83	92.5	9b	basic dyke, blebs of py in fine-grained phase from 85' - 87'										
92.5	99	sch	quartz muscovite schist minor biotite, & black amphibole	py	½%								
			py & occasional speck cp on fracts	cp	tr								
99	125.5	9b"	basic porphyritic dyke larger (to 4mm) xnocrysts than										
			above phase. Core very broken at 117. (lower contact measured)										



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YUKON TERRITORY

Hole No TH-9 Page No 3

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
99	125.5	9b	from 130' tag, (10' 122 to 130)										
125.5	128.8	sch	silicified schist py on fracts rare bleb	py									
128.8	132.5	9b	basic dyke as above. locally dissem fg py										
132.5	142.3	sch	highly silicified schist bnding 80° where visible, core highly fractd, serpentinized on fracts, py in irreg fracts 139 - 140, occ. spec py throughout.										
		2	137.2 - 138 partly serpentinized zone with disseminated cp & py	cp	1.5%	Cu							
142.3	150	9b	dark grey basic dyke xnocrysts mainly chloritized										
150	163	sch/5/3	schist- marble contact zone carbonated, silicified quartz-mica schist, bnding 80 - 90°										
163	169	3+/5	pale grey marble traces cp @ 164 - 165 3" gouge @ 168'										

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Hole No TH-9 Page No 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
169	180	9	Carbonated dyke hole probably on margin of dyke - minor serpentine, vague bnding 20° dissem cp throug hout	cp	1/4%Cu								
			Sample 175 - 180			8164	5.0	5.0	.29				
180	187.2	4q/g	grey silicified sediment may be phase of dyke blebs of cp @ 183' @185' from 184.5 tongue of dyke along core lower contact 25° sample 180 - 187.2			8165	7.2	7.2	.16				
187.2	191.2	9b	dark grey mottled basic dyke, dissem fg py throughout lower ct irreg. @20°	py	½%								
191.2	194	3/2	S(dt?) pale- dark green skarn vague banding 45 - 80° hvy py 193 - 194 minor cp 2" dyke @192.7	py cp	3% 1/4%Cu								
194	197	9b	Pale grey dyke as above broken at lower ct 15°										
197	208	5/3+s	white marble partially replaced by dark green serpentine along irregular fracts, also fract										

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Hole No TH-9 Page No 5

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
197	208		filling of quartz, cp & py associated with serpentine	py	< 1								
				cp	1/4%Cu								
			Sample 191.2 - 194			8166	2.8	2.8	.21				
			197 - 203			8167	6.0	6.0	.24				
			203-210.2			8168	7.2	7.2	.40				
208	219.7	3s+d/5	white green skarn well bnded from 216, 80 - 90°										
		25d	from 210.2 - 212.5 section has blebs & patches cp & py	cpy	2-3%Cu								
			2 - 3% Cu Remainder of section has occasional spec										
			cp & py generally associated with serpentire										
		π 9b	carbonated dyke 213.3 - 21 .8										
219.7	227	π 9b	pale grey green carbonated dyke anhedral grains										
			white feldspar and grains serpentine? to 2mm in										
			pale green ground mess lower contact 25°										
227	242	sch	grey brown silicified carbonated quartz mica schist										
			occasional specs cy & py associated withserpentine,										
			bnding gen 80° from 240 in contact with carbonated										
			dyke broken along contact										
242	274.5	π 9b	pale green carbonated porphyritic dyke as above fracts filled										
			with pale green serpentine contact with schist along										
			core 242 - 248										

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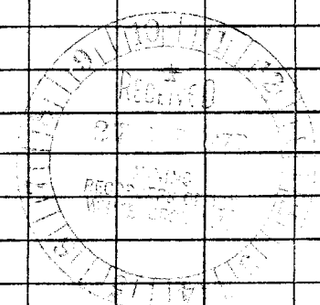
Hole No TH-9 Page No 6

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
274.5	285	sch	grey brown carbonated silicified schist as above										
			locally vuggy										
285	290	5/3	grey vaguely bnded marble 80° minor serpentine.										
		9b π	285.3 -285.7 9b π dyke as above										
	290		Hole ends										
			Samples: 175 - 180			8164	5	5	.29		.005	.13	
			180 - 187.2			65	7.2	7.2	.16		.013	.10	
			191.2 - 194			66	2.8	2.8	.21		.001	.10	
			197 - 203			67	6.0	6.0	.24		.023	.13	
			203 - 210.2			68	7.2	7.2	.40		.005	.18	
			210.2 - 213.3			69	3.1	3.1	3.06		.025	.59	
			213.3 - 219.7			8170	6.4	6.4	.25		.002	.12	



Whitehorse Copper Mines Ltd.

MINING DIVISION – WHITEHORSE
YUKON TERRITORY

08132S

PROPERTY Thom- Aishihik	Claim No. Acme 14 & Hop 13 FR	Strike 240 (W)	Lat. 9699.7 N
Date June 30 19 77	Section No.	Dip -80	Dep. 11342.1 E
Logged By A Hureau	Plan No.	Level Surface	Elev. 4031.0

Hole No. TH 10
Total Depth 106
Page No. 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture
0	61	ob	over burden- boulders
61	106	9ab	grey- white porphyritic dyke , euhedral to anhedral phenocrysts feldspar to 1.5 cm. in fine-grained grey groundmess- core generally broken, rusty on fracts.
	106		hole stopped

MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol

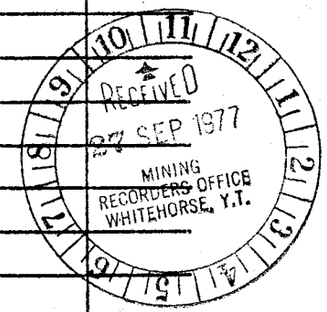
Whitehorse Copper Mines Ltd.

MINING DIVISION – WHITEHORSE
YUKON TERRITORY

OA1325

PROPERTY Hop Claims- Aishihik 115-H-7	Claim No.	Strike 240 (app. W)	Lat. 9721.1 N	Hole No. TH-11
Date July 11 19 77	Section No.	Dip -80°	Dep. 11587.7 E	Total Depth 617'
Logged By D. Tenney	Plan No.	Level Surface	Elev. 4059.0	Page No. 1 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0.0	96.8	o/b	overburden with few boulders. 26 - 97 10' broken										
			core. granite and schist boulders										
96.8	120.5.	S	grey brown schist moderate to strong jointing										
			rusty joints (weathering) fair coring- silicified										
			in places. banding 80° minor small red garnets										
			- porphyroblastic- traces sulphides pyrite + ? pyrrhotite										
		==	107 - 112 strong jointing										
		--	116 - 118 ---										
			119.0 specks chalcopyrite on joint	cpy	tr								
120.5	121.1	9b	fine/medium grained grey/brown basic dykelet										
			1% blebs pyrrhotite 10° and 20°										
121.1	164.0	S	grey/brown quartz-mica schist- strongly silicified										
			in places- specks sulphides pyrite? fair coring										
			moderate to strong jointing- minor red/pink 2-4mm garnet xtals										
		--	128 - 130 jointing										
			138.0 specks chalcopyrite in quartz rich zone	cpy	tr								
164.0	196.5	9ab	green/grey to light green intermediate dyke	py. pyh									
			good coring 1% specks pyrite; 2% specks										
			pyrrhotite- 177' - 190' - heavy sulphides (?4%)										
			contacts finer-grained and weakly broken-										
			probably at high angle										
			sample 181 - 186			8198	5.0	5.0	.01		.001	/.08	



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YUKON TERRITORY

Hole No TH-11 Page No 2 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
196.5	402.3	S	grey brown quartz-mica schist weakly silicified										
			in places- fair to good coring weak/moderate										
			jointing traces sulphides : pyrite/pyrrhotite	banding	70- 90°								
		3a	201- 201.5 dark green actinolite skarn- remnant brown mica										
			209.0 1/4" partial stringer pyrite 30°										
			224.0 2-4 mm. pale red garnets in schist										
		3a/s	227 - 228 green-dark green skarnified schist & actinolite	cpy	tr.								
			few specks pyrite chalcopyrite										
			251.2 - 251.4 solid wedge chalcopyrite 5°	cpy	5%								
			strongly altered schist										
			225 - 273 good coring										
			261.5 specks pyrite/ chalcopyrite	cpy	tr.								
			286.0 minor 4mm. garnet (red) xtals- rounded										
			289 - 291 weak skarnification & actinolite quartz - 1%	cpy	tr.								
			pyrrhotite & specks associated chalcopyrite- minor dull red garnet										
			297.0 - 297.5 joints & pyrite- minor dull red garnets										
			312.0 3 cm. grey quartz minor dull red garnet trace pyrite										
			326.2 2 cm.										
		3 at/S	337.5 - 343.0 weakly to strongly skarnified white/pale	pyh	tr.								
			~~green schist & tremolite.~~ nolite good coring trace	cpy	tr								
			pyrrhotite. 342 - specks blebs chalcopyrite										
			358.9 white/grey quartz specks chalcopyrite	cpy	tr								
			382 - 402.3 2 - 4 mm. pale red garnets in schist										
402.3	406.1	9b	fine grained dark green basic dykelet 1-2mm.										
			rounded mafic xtals fair coring 402.3 chilled 90°										
			406.1 chilled @ 30°										

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Hole No. TH-11 Page No. 3 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
406.1	442.7	S	grey/brown quartz-mica schistbanding 60 - 80° fair	py	tr								
			good coring moderate jointing- some sections silicified										
			406.3 heavy quartz fine grained pyrite mainly on joint										
		3/2a/S	411 - 417 intermittent pale to dark green skarnification &	cpy	½%								
			actinolite specks and small blebs chalcopyrite - pyrrhotite										
			pyrite										
			samples 411 - 414			8193	3.0	3.0	.38			.003/.17	
			414 - 417			8194	3.0	3.0	.04			NIL/.08	
			442 - 442.7 silicified specks pyrrhotite chalcopyrite	cpy	1/4%								
			440.2 1 cm. zone/stringer 50% chalcopyrite & pyrrhotite & quartz	cpy									
		3a	441.6 - 441.8 dark green actinolite 260°										
442.7	443.0	3a/s	dark green actinolite with remnant brown mica										
443.0	446.5	XX	dark brown and green altered breccia +2%										
			disseminated pyrite - minor pyrrhotite - fracture through										
			quartz pebble is mineralised (1mm pyrite)										
446.5	451.8	S	grey quartz mica schist- silicified banding 80°										
			specks pyrite pyrrhotite										
451.8	453.3	4ab	brown to light brown intermediate dyke 3% pyrite/	cpy	tr.								
			pyrrhotite - minor chalcopyrite in altered section good coring										
453.3	467.9	S	more strongly silicified grey schist moderate jointing										
467.9	476.2	3/2at/S	pale to dark green skarnified schist & actinolite tremolite	cpy	1/4%								
			bands & fine-grained disseminated pyrrhotite/pyrite	pyh	3%								
			specks associated chalcopyrite good coring										
			sample 467.9- 476.2			8195	8.3	8.3	.10			NIL/.10	
476.2	601.0	S	grey brown quartz-mica schist silicified in places										
			banding 80 - 90° fair coring moderate jointing minor	pale green	skarnified sections								
			jointing 477-478; 480-481; 485-487; 492-494										

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Hole No TH-11 Page No 4 of 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
			501.0 pyrrhotite in small (5mm) quartz stringer 30°										
		--	512 - 545 moderate - strong jointing										
		3ad/2/S	544 - 551 green epidote actinolite diopside alteration	cpy	tr.								
			2% pyrite pyrrhotite minor specks chalcopyrite - banded 85°										
			sample 544- 551			8196	7.0	7.0	.02		NIL	/.08	
		3ad/2/S	578.0 - 582.5 as above - more pyrrhotite (4%) and chalcopyrite	cpy	1/4%Cu	8197	4.5	4.5	0.06		NIL	/ .07	
601.0	602.0	XX	breccia schist fragments cemented with calcite										
602.0	617.0	9a$^{\pi}$	light grey quartz feldspar porphyry dyke good coring	cpy	tr.								
			specks and blebs pyrrhotite - specks chalcopyrite		? .1% Cu								
			Hole ends @ 617.0'										
			B.Q. core split for assay										
			Caron Diamond Drilling										