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## 2001 HAT Property Diamond Drill Log HT-7

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2002 HAT Property Diamond Drill Log HT - 7				Hole #:	HT-7					
Date Started:		June 6, 2002		Date Finished:		June 10, 2002		Final Depth:		589 feet
Grid location:		124+00N / 18+50W		Inclination:		-50		Azimuth:		090
Core Size:		NQ		Drill Rig:		Long Year 38		Logged By:		XD Jiang
Core Stored At:		200 Range Road, Whitehorse, YT Government core library.								
Drilling Contractor:		KLUANE DRILLING LTD., 14 MacDonald Road, Whitehorse, Y.T. Y1A 4L2								
Location:		On HAT 30 claim, about 1350 feet northwest of HAT 30 #1 post, and about 200 feet to the west of Whitehorse Traverse Line.								
Samples:		10265 - 10295		From 42.1 - 175.4 (133.3 ft) estimated 0.3 - 0.4% Cu in intercalated granodiorite and skarn						

Bor - bornite, Cc - chalcocite, Cpy - chalcopyrite, Mal - malachite, Mo - molybdenite, Po - pyrrhotite, Py - pyrite.  
 Cal-calcite, Diop-diopside, Ep-epidote, Gar-garnet, Qz-quartz, Trem-tremolite, Wol-wollastonite. CA = (degrees to) core axis

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Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
45.0	50.0	5.0	10268	altered sedimentary dominant with granodioritic fingers and patches and few Cpy (1-2%) filled fine fractures nearly parallel to core axis.	10	0.276	0.2	10	<2
50.0	55.0	5.0	10269	Granodiorite with a couple of low core angle (5-15 to CA) Cpy veinlets and minoe Cpy as disseminated near the fractures (1-2% Cpy).	35	0.500	0.8	5	<2
55.0	60.0	5.0	10270	same as above	20	0.327	0.4	7	<2
60.0	65.0	5.0	10271	similar to above but with 1 ft garnet diopside skarn.	30	0.825	1.4	9	<2
65.0	70.0	5.0	10272	similar to above. 1-2% Cpy.	65	0.948	2.6	14	22
70.0	75.0	5.0	10273	similar to above, 2-3% Cpy and trace Bor.	20	0.477	1.2	27	6
<b>75.0</b>	<b>103.7</b>	<b>28.7</b>		<b>Mineralized Diopside Skarn / Skarnified Sediments / Granodiorite</b> , light green to local light purple to light brown, mostly fg diopside skarn or skarnified siltstone argillite, with local patches and lenses of garnet skarn and altered granodiorite. Some very low core angle Cpy - (Qtz - Cal) veinlets all way through interval, with bleached alteration halos local with disseminated Cpy Bor. Local rich disseminated Bor in diopside skarn. Lower contact irregular.					
75.0	80.0	5.0	10274	0.5% disseminated Cpy.	10	0.356	0.6	6	<2
80.0	85.0	5.0	10275	1-2% Cpy Bor.	80	0.418	3.0	3	18
85.0	90.0	5.0	10276	2-3% Bor Cpy.	365	1.840	21.2	1	84
90.0	95.0	5.0	10277	1-2% Bor Cpy. Minor scattered fresh pink feldspar phenocrysts of several mm sized.	65	0.660	3.6	45	16
95.0	100.0	5.0	10278	3-4% Cpy Bor.	435	1.470	6.0	52	50
100.0	103.7	3.7	10279	0.5 - 1% Cpy.	50	0.631	1.4	3	6

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Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
103.7	120.2	16.5		<b>Altered Granodiorite</b> , light greenish grey, fine to coarse grained, chlorite epidote altered, bleached halos near fractures, mafic mineral content vary greatly. Minor skarnified siltstone argillite lenses. Some low core angle fractures in-filled with disseminated Cpy and local disseminated Cpy halos. Lower contact irregular.					
103.7	108.0	4.3	10280	1% Cpy.	65	0.931	3.0	5	10
108.0	111.4	3.4	10281	1% Cpy, trace Bor.	35	1.070	6.0	4	14
111.4	115.0	3.6	10282	1% Cpy.	20	1.030	1.0	1	<2
115.0	120.2	5.2	10283	1-2% Cpy.	20	0.809	0.6	2	<2
120.2	130.5	10.3		<b>Skarnified Siltstone / Argillite</b> , light green to local purple, fine grained, massive to local weakly banded, minor local calcitic veinlets and stringers some with trace Cpy. Local scattered pinkish red Gar. Vuggy and broken ground near 129 ft. Lower contact irregular.					
120.2	123.5	3.3	10284	1% disseminated and stringer Cpy.	20	0.342	0.6	3	<2
126.2	130.5	4.3	10285	1 -1.5% disseminated and stringer Cpy, trace Bor.	80	0.451	4.0	8	18
130.5	137.5	7.0		<b>Altered Granodiorite</b> , light greenish grey, medium to coarse grained, skarnified, with fracture filling Cpy veinlets at very low core angle, local minor disseminated Cpy. Lower contact broken core.					40
130.5	133.0	2.5	10286	1% Cpy.	155	1.080	7.4	4	18
133.0	137.5	4.5	10287	0.5-1% Cpy.	160	0.700	4.6	4	<2
137.5	166.0	28.5		<b>Siltstone Sandstone</b> , light purple to local weakly skarnified greenish purple, fine to local medium grained, massive. Local with 1% disseminated Cpy possibly near some low core angle Cpy veinlet. Mostly barren. 155 - 163 ft, broken ground, well fractured core with malachite coated fractures. Lower contact at about 20 CA.					

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Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
143.7	147.0	3.3	10288	1% Cpy.	35	1.400	1.6	1	<2
157.0	162.5	5.5	10289	1-2% Mal, trace Cpy.	40	0.465	1.0	1	<2
162.5	166.0	3.5	10290	0.5 - 1% Cpy, trace Mal.	15	0.160	1.0	2	<2
<b>166.0</b>	<b>200.5</b>	<b>34.5</b>		<b>Granodiorite</b> , light grey to light greenish grey, medium to coarse grained, massive granular, local weakly altered. Top 9.4 ft moderately fractured and with 0.5% disseminated Cpy, local trace Mal on fractures. The rest has occasional Cpy blebs, local trace Mo along fractures.					
166.0	171.0	5.0	10291	see above	5	0.051	<0.2	3	<2
171.0	175.4	4.4	10292	see above	20	0.198	0.4	2	<2
<b>200.5</b>	<b>219.0</b>	<b>18.5</b>		<b>Basaltic Dikes in Granodiorite</b> , lthis is an interval of granodiorite intruded by 10 basaltic dikelets, the dikelets are light to medium green, fine grained, mostly chloritic, local weakly porphyritic with minor feldspar phen's and or aggregates, local granodiorite inclusions, the dikes are from a few cm's to about 2 ft, at various sharp clean contacts. no mineralization.					
<b>219.0</b>	<b>240.5</b>	<b>21.5</b>		<b>Basaltic Dike</b> , this interval is mainly basaltic dike, with 4 granodiorite inclusions up to 1 ft size. Lower contact sharp @ 45 CA.					
<b>240.5</b>	<b>261.6</b>	<b>21.1</b>		<b>Granodiorite</b> , light grey, coarse grained, local Cpy veinlets at low CA, also local trace Mo blebs. A few small basaltic dikelets. lower contact irregular at about 50 CA.					
<b>261.6</b>	<b>279.6</b>	<b>18.0</b>		<b>Basaltic Dike</b> , psimilar to that of above. top end weakly bleached with some rusty modern fractures. lower contact sharp at 45 CA.					
<b>279.6</b>	<b>335.7</b>	<b>56.1</b>		<b>Granodiorite / Basaltic Dikes</b> , granodiorite dominant with about 30% basaltic dikelets. Only trace local occasional Cpy in fine chloritic to Ep altered fractures in the granodiorite.					

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Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
<b>335.7</b>	<b>372.1</b>	<b>36.4</b>		<b>Weakly Altered Siltstone</b> , purplish grey light green, fine grained, massive to local well thinly banded with bands at 30 to 50 CA. Weakly pyritic, local Cpy stringers and veinlets along fractures, local trace disseminated Cpy and very trace Mo blebs along frac's. Included two small basaltic dikes and numerous small irregular granodioritic patches and fingers. Lower contact irregular.					
351.5	355.0	3.5	10293	light greenish grey altered banded siltstone argillite with >1% Cpy.	35	0.578	1.0	63	<2
355.0	357.6	2.6	10294	same as above with 1-2% disseminated Py and Cpy. 357.6 - 358.9 is a basaltic dike.	40	0.737	1.4	8	<2
358.9	362.1	3.2	10295	same as above with about 1% Cpy mostly in fine veinlets at low CA.	55	0.865	1.6	17	<2
<b>372.1</b>	<b>384.2</b>	<b>12.1</b>		<b>Granodiorite</b> , light grey, coarse grained, massive, inclusions of bedded siltstone common, weakly Ep altered, local trace to 0.5% disseminated Cpy Py patches or along frac's. Lower contact irregular.					
<b>384.2</b>	<b>396.1</b>	<b>11.9</b>		<b>Siltstone</b> , light purplish grey, fine grained, massive, local moderately fractured with calcitic veinlets, trace disseminated Py, local trace Cpy. Lower contact irregular.					
<b>396.1</b>	<b>402.5</b>	<b>6.4</b>		<b>Granodiorite</b> , weakly Ep altered, weakly vuggy, local skarnified with minor garnet skarn. Trace disseminated Py Cpy. Lower contact broken core.					
<b>402.5</b>	<b>411.0</b>	<b>8.5</b>		<b>Feldspar Porphyry</b> , Medium to dark grey, with feldspar and dark grey to brown (biotitic) mafic phenocrysts. weakly magnetic. It is intruded by the granodiorite. Lower contact intruded by a granodiorite dikelet at 55 CA.					
<b>411.0</b>	<b>428.0</b>	<b>17.0</b>		<b>Siltstone / Argillite</b> , light purplish grey fine grained, mostly well thinly banded from nearly parallel to CA to 40-50 CA, local cross bedding recognizable. pyritic, local 1-2% disseminated vfg Py, trace Cpy. Lower contact core broken.					

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Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
428.0	436.0	8.0		<b>Granodiorite</b> , light to medium greenish grey, well fractured broken core, with minor calcitic and qtz filled frac's, trace disseminated Py Cpy. Lower contact sharp irregular at about 40 CA.					
436.0	466.6	30.6		<b>Well Banded Siltstone Argillite</b> , mostly light greenish grey, to local light purplish grey, bands at 30-35 CA, composed of white feldspathic bands, light brownish biotitic bands and light green diopside bearing vfg argillite bands, local weakly calcareous and some calcitic veinlets. weakly pyritic, local trace Cpy on frac's. Lower contact irregular at about 50 CA.					
466.6	480.5	13.9		<b>Granodiorite / Siltstone</b> , weakly altered, two siltstone lenses and one basaltic dike. Trace disseminated Cpy on local pyritic fractures. Lower contact sharp between siltstone and granodiorite at 70 CA.					
480.5	589.0	108.5		<b>Granodiorite</b> , light to medium grey, medium to coarse grained, massive, mostly barren with no mineralization, only local with trace Cpy along some fine fractures with limited bleached or chl or ep alteration halos. 534.5 - 535.5 is a vuggy quartz vein with Mo blobs and Cpy blobs; and at 566.7 is Mo filled fracture.					
589.0				EOH					