[YMIP 02-019]

ASSESSMENT REPORT

DIAMOND DRILLING

on

HAT 25 and HAT 30 CLAIMS

YB58025 and YB58052

May 30 – June 11, 2002

Latitude 60°45'44"N, Longitude 135°10'W

NTS 105 D/11, 14

WHITEHORSE MINING DISTRICT
YUKON TERRITORY

for

Kluane Drilling Ltd.
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by
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Summary

In the summer of 2002, Kluane Drilling Ltd continued its exploration program on the HAT claims in the north end of the Whitehorse Copper Belt Two diamond drill holes totaling 1424 ft (434 15m) were completed HT-6 failed to intersect any significant width of mineralization in the high IP chargeability anomaly But HT-7 intersected over 102 2 ft (31 15m) of moderate copper mineralization of 0 74% Cu Based on previously drilled HT-5, intrusive hosted Cu-Au mineralization is still a valid concept worth further pursuing It is recommended that the garbage dump site be further drill tested for both skarn and intrusive hosted Cu-Au mineralization

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Introduction

In the summer of 2002, Kluane Drilling Ltd , based on previous trenching, geophysics and diamond drilling, carried out further exploration on the HAT claims in the north end of Whitehorse Copper Belt Work completed this year include two diamond drill holes totaling 1424 ft (434 04 m) A total of 45 drill core samples were collected and analyzed for gold and copper and 34 additional elements by ALS Chemex in North Vancouver

The overall target evaluation program is partially funded by Yukon Mining Incentive Program (YMIP designation number 02-019) The diamond drilling was done by Kluane Drilling Ltd of Whitehorse, as owner operator

Property Location and Access

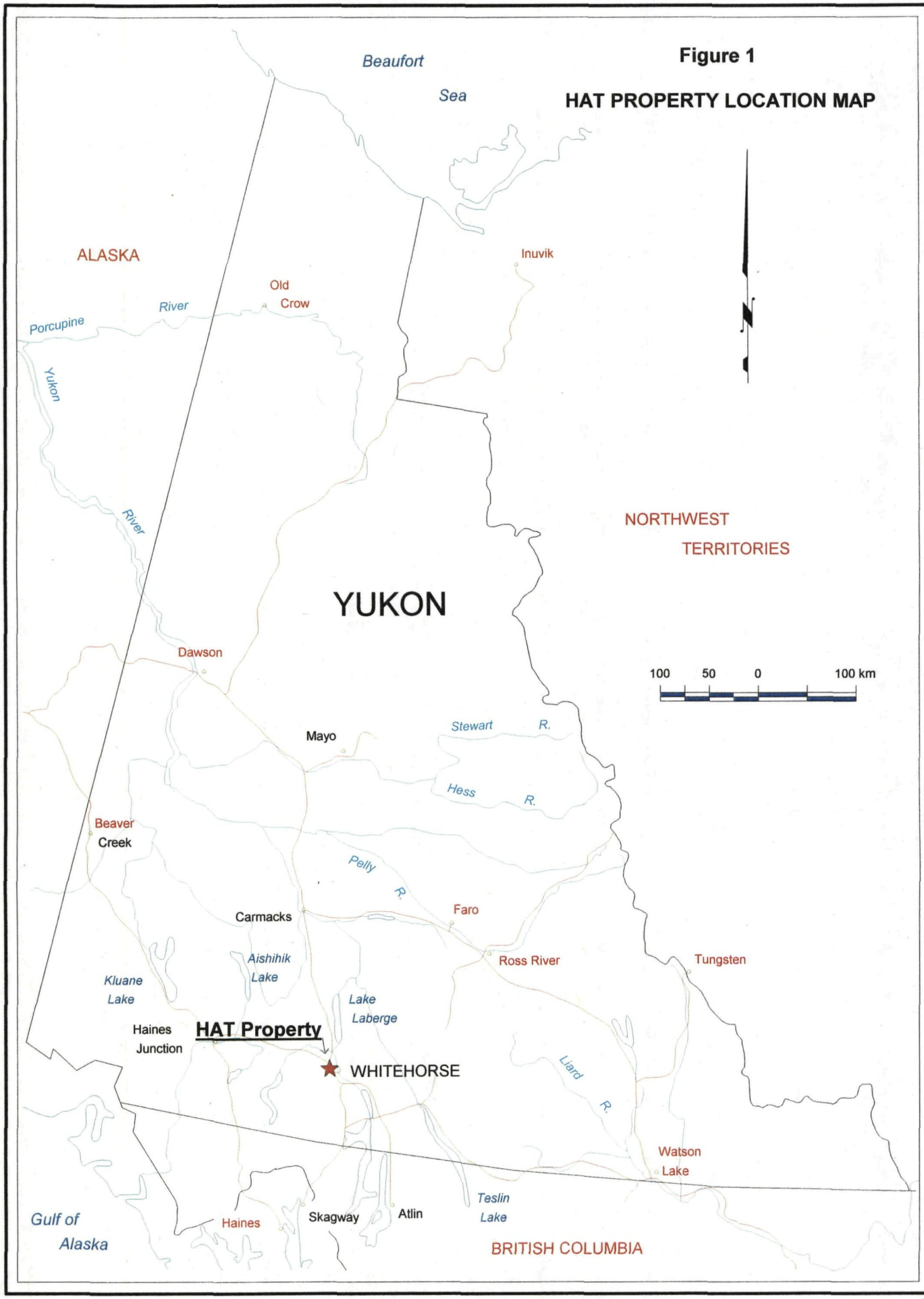
The HAT property consists of 52 contiguous mineral claims including HAT 1 – 48 and Bornite 1 - 2 and Zircon 2 and Zircon 4 The claim status and ownership are listed in Table – 1. The claims are located about 5 km NW of Whitehorse City downtown, and to the west of Alaska Highway, with its center at about latitude 60° 45 3' N and longitude 135° 10 5' W straddling NTS sheets105D/11 and 14 (Figure 1 and 2) The claims cover the north end of Whitehorse Copper Belt, with the abandoned War Eagle open pit to its south The newly stripped northern portion of the garbage dump site lies on HAT-1 and HAT-27 claims

Table-1, HAT Claim Status

Claim Name	Grant Number	Number of Claims	Mining District	Ownership	New Expiry Date
Hat 1-20	YB57537-YB57556	20	Whitehorse	KD 50% Norwest 50%	2013/11/11
Hat 21-26	YB58021-YB58026	6	Whitehorse	KD 50% Norwest 50%	2015/11/11
Hat 27-34	YB58049-YB58056	8	Whitehorse	KD 50% Norwest 50%	2015/11/11
Hat 35-36	YB58139-YB58140	2	Whitehorse	KD 50% Norwest 50%	2014/11/11
Hat 37-40	YB66395-YB66398	4	Whitehorse	KD 50% Norwest 50%	2013/11/16
Hat 41-44	YC18449-YC18452	4	Whitehorse	KD 50% Norwest 50%	2013/11/11
Hat 45-46	YC18695-YC18696	2	Whitehorse	KD 50% Norwest 50%	2013/11/11
Hat 47-48	YC18853-YC18854	2	Whitehorse	KD 100%	2009/11/11
Bornite 1-2	73783-73784	2	Whitehorse	KD 100%	2013/11/11
Zircon 2	64183	1	Whitehorse	KD 100%	2013/11/11
Zircon 4	74157	1	Whitehorse	KD 100%	2013/11/11

Figure 1

HAT PROPERTY LOCATION MAP



Access to HAT claims is very convenient from Whitehorse City Several roads lead to the claims including mainly the Whitehorse copper haul road, the garbage dump site road and the road from south of Crest View A number of trails exist on the property including the well cut Whitehorse Traverse Reference Line

Physiography, Climate and Vegetation

The Hat property lies below tree line, on a gentle slope west of Alaska Highway The highest point on the property is about 1230 meters above sea level, while the lowest at about 750 meters above sea level The climate is of interior continental, with annual precipitation of about 300 mm The region has cold and long winters followed by warm summers Snow free season starts from about mid-May to late September Permafrost may exist as small patches on the steep north facing slopes Most of the property is well treed by black spruce, willow and alder, etc except in a few small swampy areas where low dense brush and moss are well developed Outcrops on the Hat claims are sparse Overburden depth varies from a few meters to several tens of meters

Previous Work

There is great amount of work done on the Whitehorse Copper Belt over it's more than one hundred year history Numerous publications are available today From the first claim staked by Jack McIntrye on July 6th, 1898, the Whitehorse Copper Belt has seen quite a few booms and busts caused either by world copper prices or by infrastructure problems Major companies that have worked on the belt include Richmond Yukon Company worked in late 1920's, Noranda Mines worked in late 1940's, Hudson Bay Exploration and Development Company worked in 1950's and from late 1970's to 1990's, and Imperial Mines and Metals (later changed name to New Imperial Mines Ltd in 1957) from 1950's to late 1970's The Whitehorse Copper mining operations ceased at the end of 1982 The production for the 1967 - 1982 period included 267,490,930 pounds copper, 224,565 ounces gold and 2,837,631 ounces of silver from 11,017,738 tons of ore milled Further exploration on the Copper Belt has been relatively dormant since 1982 Only minor amount of drilling, trenching and geophysics were conducted with no new economic discoveries

From 1998 to 1999, a trenching sampling program was completed mainly in the dump site area by Kluane Drilling Ltd , followed by data compilation In 2000, two diamond drill holes totaling 1172 ft (357 23m) and five line-kilometers of Induced Polarization survey were completed in and near the current dump site area Significant skarn mineralization was intersected in HT-1 In 2001, three diamond drill holes totaling 2005 ft (611 12m) were completed HT-3 and HT-4 drilled in the garbage dump site intersected scattered skarn Cu– Au –(Ag) mineralization with the best being 9 6 ft averaging 3 12% Cu and 359 ppb Au and 13 8 ppm Ag from HT-4 The third hole HT-5 drilled in the northwest was entirely within the intrusive – granodiorite, which, for several hundred feet, is scattered with fine

quartz-(calcite)-chalcopyrite-(bornite) veinlets with highly anomalous copper values up to 1 02% Cu and local elevated gold values up to 1 76 g/t Au

Regional Geology

The geological setting of the Whitehorse Copper Belt is well summarized by D Tenney (1981) The Whitehorse Copper Belt is within the Whitehorse Trough, a subdivision of the Intermontane Belt The trough trends northwestwards through south central Yukon and represents an island arc complex that ranges from upper Paleozoic through Jurassic in age Within the Copper Belt, clastic and carbonate rocks of the upper Triassic Lewes River Group and clastic rocks of the Lower Jurassic Laberge Group are the dominant rock types The copper bearing skarns occur over a length of about 32 km along the western side of a Cretaceous diorite batholith of the Coast Platonic Complex

Property Geology

The Hat Claims are located in the north end of the Whitehorse Copper Belt Past producer War Eagle open pit sits right to the southern edge of the claims About two thirds of the property is underlain by sedimentary rocks of Upper Triassic Lewes River Group and Lower to Middle Jurassic Laberge Group The rest is occupied by Mid Cretaceous Whitehorse Batholith The Lewes River Group is composed of a mixture of calcareous and dolomitic siltstone, sandstone and mudstone, pyritic siltstone, sandstone, argillite, limestone, dolomite and fragmental rocks The Laberge Group is consisted of poorly sorted greywacke and sandstone with interbeded argillite and siltstone (no calcareous units) (Watson, 1984) The Whitehorse Batholith is composed of grey, equigranular, medium to coarse grained, biotite - hornblende quartz monzonite to granodiorite and hornblende diorite The contact between the sedimentary rocks and the Batholith is believed to be about 300m east of the War Eagle open pit This contact zone has never been well defined due to overburden Coincidental geophysical anomalies were found near the dump site area where several widely spaced holes were previously drilled by Hudson Bay to test the main contact zone The best intersection returned 16 5 feet averaging 1 78% Cu in hole HS-7

Mineralization on HAT claims are mainly of skarn style as iron-rich and silicate-rich copper skarns developed in the Upper Triassic Lewes River Group limestones and clastic sedimentary rocks near contact with granodiorite Other styles of mineralization reported on the Whitehorse Copper Belt include mainly porphyry Cu – (Au) However, so far there is no such economic deposit found on the belt The new trenches on HAT claims and the many mineralized floats give strong indication that a porphyry style deposit may exist on HAT claims

2002 Diamond Drilling Program

In the summer of 2002, two diamond drill holes totaling 1424 ft (434 04m) were completed on the HAT property including HT-6 on L132N / 20+00W and HT-7 on L124N / 18+50W (see Figure 3) Drilling started on May 31, 2002 and finished by June 11, 2002 Kluane Drilling Ltd as owner operator completed the diamond drilling Core recoveries were above 95% Ground disturbance was kept to minimal

The objective of this program is to drill test the strong IP chargeability anormaly in the northwest and to further explore the possibility for a porphyry style Au – Cu – Mo deposit in the north end of Whitehorse Copper Belt Cu-Au mineralization was found scattered in HT-6 but fairly continuous low grade in HT-7 The best copper mineralization intersected is from HT-7 with 102 2 ft (31 15 m) averaged 0 74% Cu

HT – 6 was drilled in the northwest on Line 132N / 20+00W (350 feet west of HT-5) to test the IP chargeability anomaly Last year HT-5 was drilled all in granodiorite with scattered fine quartz-(calcite)-chalcopyrite-(bornite) veinlets mostly less than a centimeter thick with associated disseminated chalcopyrite halos The veining is better developed in HT-5 from about 300 ft down hole to about 560 ft Anomalous copper values all way through with local elevated gold values (see 2001 assessment report) However, HT-6 failed to intersect any significant width of intrusive Instead, HT-6 went through a lot of skarn and skarnified sediments with local scattered copper mineralization (see Table-2 for drill log and Figure-4 for section)

HT – 7 was drilled on L124N / 18+50W The top portion of this hole from about 40 ft to 175 ft is mostly intercalated granodiorite and skarn, moderately altered with epidote and chlorite A few fractures nearly parallel to core axis were filled with quartz and chalcopyrite (local bornite) veinlets From 26 8 ft to 147 ft (102 2 ft or 31 15 m) averaged 0 74% Cu with the best being 1 84% Cu and 435 ppb Au The lower portion of this hole is mostly within the intrusive with weak local scattered mineralization (see Table-3 for drill log and Figure-5 for section)

A total of 45 half split (sawed) NQ sized drill core samples were taken and shipped to ALS Chemex in North Vancouver for analysis For each sample, Fire Assay (30 grams) followed by Atomic Absorption method was used for gold analysis followed by standard nitric-aqua regia digestion for 34 element ICP scan, and four acid total digestion for over limit copper samples from above ICP method Analytical assay certificates are attached in Appendix 1

2002 HAT Property Diamond Drill Log HT 6				Hole #		*HT-6*			
Date Started		May 31, 2002		Date Finished		June 6, 2002		Final Depth	835 ft
Grid Location		132+00N / 20+00W		Inclination		-50		Azimuth	270
Core Size		NQ		Drill Rig		Long Year 38		Logged By	XD Jiang
Core Stored At		14 MacDonald Road, Whitehorse, YT (Kluane Drilling Ltd's back yard)							
Drilling Contractor		KLUANE DRILLING LTD , 14 MacDonald Road, Whitehorse, Y T Y1A 4L2							
Location		On HAT 25 claim, about 850 feet south of HAT 25 #1 post, and about 400 feet west of Whitehorse Traverse Line							
Note		No significant mineralization							
Samples		10251 - 10264							

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
0.0	**17.0**	**17 0**		Overburden, glacial deposits There may be a diorite dike in lower portion, or it may be a big boulder					
17.0	**35.0**	**18 0**		**Garnet Skarn**, light brown, medium to coarse grained, broken ground, local vuggy, weakly to moderately cacareous, with calcite stringers More than 70% garnet Lower contact sharp at about 60 degrees to CA (core axis) when garnet disappear into next marble interval					
35.0	**42.0**	**7.0**		**Marble,** light grey, medium to coarse grained, mostly marble with local 10-20% garnet skarn patches near lower end					
42.0	**48.0**	**6.0**		**Skarnified Siltstone Sandstone**, Purple to grey, fine to medium grained, weakly pyritic, about 1% disseminated fg Py Most of the purplish brown color is caused by garnet, minor potassic (?) alteration Lower contact rusty fractured					
48.0	**55.0**	**7.0**		**Garnet Skarn**, light grey and brown, medium to coarse grained, massive with calcitic irregular stringers and patches Lower contact broken					
55.0	**60 5**	**5 5**		**Skarnified Sandstone / Siltstone**, Purple, fine and fine to medium grained, some ghosty local banding recognizable at about 35-40 to CA, local 1-2% disseminated and stringer Py Lower contact rusty fractured					
60.5	**124 5**	**64 0**		**Marble and Minor Garnet Skarn**, Mostly marble with minor garnet skarn at top and bottom, light grey and, coarse grained, massive, fairly pure and unfractured marble mostly, but top and low ends 2-3 feet rich with Gar, local porus Lower contact sharp at 35-40 degrees to CA					

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

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
124.5	136 0	11 5		**Diorite Dike**, greenish grey, fine to coarse grained, with porphyritic ghosty white feldspar phenocrysts from 0 5mm to 2-3 mm in greenish epidote chlorite altered mafic matrix about 1% local disseminated Py Lower contact sharp at about 25 CA with calcitic patches and veinlets					
136.0	144 7	8.7		**Garnet Skarn / Marble,** light brownish grey, medium to coarse grained, 60% garnet skarn and 40% marble, garnet as irregular lenses and patches, local vuggy and calcitic Lower contact irregular					
144.7	147 7	3.0		**Diorite Dike**, light greenish grey, medium to coarse grained, Ep and Chl altered, with 1% disseminated Py and Po, weakly magnetic Lower contact irregular					
147.7	160 5	12.8		**Skarnified Siltstone**, purplish brown and light green, fine grained, but the Diop and Trem skarn irregular patches and lenses are medium grained, mostly massive to local weakly foliated at 40 CA Local pyritic up to 2% disseminated Py, esp 2 ft near lower end Lower contact at about 35 to CA					
160 5	166.5	6.0		**Garnet Skarn**, light brown, coarse grained, Gar dominant, minor trem, lower end 3 inch felsic dikelet with 2% disseminated Py Lower contact irregular					
166 5	175.0	8.5		**Skarnified Sandstone / Quartzite**, purplish brown, medium grained, mostly massive to local banded at 40 degrees to CA Local weakly pyritic Lower contact at about 40 CA					
175 0	223 1	48 1		**Garnet Skarn with Interbedded Siltstone**, brown and greenish grey, fine to coarse grained, Gar skarn dominant, local Gar-Trem skarn, Gar-Wol skarn, interbedded with purplish to greenish fine grained siltstone lenses from 183 to 190 3 ft and 204 6 to 210 3 ft, the siltstone is local pyritic (1-2%) 201 1 to 202 1 is an irregular dioritic dikelet Lower contact sharp at 60 CA					
223.1	225 8	2.7		**Basaltic Dike,** medium grey, fine grained, porphyritic, with Ep altered feldspar phenocrysts of 0 5 to 2 mm Sharp lower contact at 40 CA					
225 8	251 0	25 2		**Garnet Skarn**, light brown, coarse grained, well developed Gar skarn, local Gar-Wol skarn, and Gar-Diop Ttrem skarn Lower contact irregular					

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

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
251.0	**255 5**	**4.5**		**Skarnified Siltstone**, light greenish grey, fine grained, local medium grained; foliated to banded at 30 to 40 CA, local cherty appearance Minor dioritic patches 1% disseminated very fine grained Py Lower contact irregular alteration contact					
255.5	**266 6**	**11 1**		**Diorite Dike**, medium grey, medium to coarse grained, weakly chloritized biotite and hornblende, local moderately magnetic with magnetite grains, trace Py Po Lower end coarse grained biotitic Lower contact sharp at about 50 CA					
266.6	**310.7**	**44 1**		**Garnet Skarn,** light brown, coarse grained well developed garnet skarn, with intercalated small lenses of light green fine grained diopside skarn and or skarnified siltstone, minor local dioritic fingers or irregular patches Local minor small Cpy-Py-(Bor) veinlets of few mm sized at 286 to 287 ft, and at 289 2, 291 and 293 ft, with associated trace disseminated Py Cpy Lower contact irregular					
285 8	287 3	1 5	10251	Garnet skarn with two Cpy-Py (Bor) fracture filling veinlets at low CA (15-20)	5	0 598	1 4	3	<2
287 3	289 4	2 1	10252	light greenish grey fine grained siltstone, diop skarn, weakly pyritic with minor fine fracture filling Py-Cpy veinlets at both ends	10	0 226	0 2	3	<2
289 4	293 5	4 1	10253	Garnet skarn with two Cpy-Py (Bor) fracture filling veinlets at low CA (25-30)	<5	0.061	<0 2	1	<2
310 7	**326.0**	**15 3**		**Skarnified Siltstone,** light green and light purple, fine grained, about half diopside skarn as patches and irregular lenses, rest is purplish siltstone, weakly pyritic 318 5 - 321 ft is a light brown coarse grained garnet skarn lens with a Cpy veinlet in middle Lower contact at 30-40 CA					
326 0	**351.3**	**25 3**		**Garnet Skarn**, light brown, coarse grained well developed garnet skarn, garnet-tremolite skarn, Ep common, some Cpy associated with Ep Massive to maga-crystic Gar patches, local vuggy 344 3 - 345 1 is a light green f-mg pyritic diopside skarn lens with trace Cpy 346 4 - 349 ft is an Ep altered pyritic (3% Py) diorite dikelet with trace to 0 5% Cpy					

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

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
351.3	359.2	7.9		**Skarnified Siltstone,** light greenn to light purple, massive to weakly bandded at 35 CA, about 50% fg irregular diopside skarn patches and bands Local pyritic 2-3% Py with trace Cpy 353 8 - 354 8 is diorite dikelet Lower contact broken at about 40 CA					
359 2	378 8	19 6		**Diorite Dike,** light greenish grey, coarse grained, massive granular, top end has minor purplish siltstone inclusions, coomon with cg brown biotite Local weakly pyritic (1-2%), and trace Cpy Lower contact @ about 35 CA					
378.8	385 0	6.2		**Garnet Skarn**, light brown, coarse grained, massive, mostly garnet, minor tremolite Lower contact irregular					
385 0	399.3	14 3		**Diorite Dike**, similar to the one describbed above, but with more Ep and Chl alteration, local trace Cpy There is a garnet skarn lens in the middle from 390 - 394 ft Lower contact sharp at 30 CA					
399 3	422 0	22.7		**Garnet Skarn**, light brown, coarse grained, massive to maga-crystic garnet in white tremolitic matrix, local minor Ep and Wol Lower contact sharp and clean at 50 CA					
422 0	428 1	6.1		**Diorite Dike**, dark grey, medium to coarse grained, local weakly foliated, biotitic, local bleached with more feldspar trace disseminated Py and Cpy					
428.1	435 3	7 2		**Garnet Skarn**, light brown, coarse grained, massive to weakly vuggy, garnet dominant with minor tremolite Lower contact at about 50 CA sharp					
435 3	452 2	16 9		**Mixed Altered Intrusive and Siltstone,** light green, fine to medium grained, massive to local weakly foliated, minor local calcitic stringers, mostly chloritized and or bleached diorite, but included a skarnified siltstone lens and few inclusions, which looks more of diopside skarn Local lenses up to a foot have 1-3% disseminated Py and Cpy some with associated Ep alteration Local minor garnet skarn lenses (less than 0 5 ft) Lower contact sharp at 40 CA A fault at 436 4 with fault mud and 0 5 ft sheared and fractured with calcite veinlets					
436 4	439 4	3 0	10254	about 1-2% disseminated Cpy and Py mostly in intrusive that has about 35-40% skarnified siltstone or diopside skarn Sample interval has 10-15 fine parallel cacitic stringers at 30 CA	65	1 660	9 4	14	<2

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

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
452.2	**465.0**	**12 8**		**Biotitic Diorite**, dark grey to local light grey, massive to porphyritic with white feldspar (local minor quartz) phenocrysts in dark mafic finer grained matrix, common with black and brown biotite Local bleached lenses and patches, some with pink feldspar and chlorite, these alteration mostly along fractures, some with trace specks of Cpy Lower contact sharp at about 30 CA 455 3 - 456 8 is a light brown cg garnet skarn lens					
465.0	**475 4**	**10 4**		**Garnet Skarn**, light brown, coarse grained, massive to weakly bandded @ 50 CA by garnet and tremolite ghosty bands Local trace Ep and Cpy Lower contact sharp at 30 CA					
475.4	**518 3**	**42 9**		**Altered Granodiorite**, this is a mixed interval of dominantly altered diorite and granodiorite with minor siltstone and garnet skarn lenses A couple lenses of well developed endo-skarn Moderate Ep and Chl alteration, local bleached with more feldspar alteration, local minor calcitic stringers Local disseminated Py and Cpy up to 2-3% including some Cpy-Py stringers Lower contact gradational					
494 0	498 6	4 6	10255	Ep and Chl altered granodiorite with 1-2% disseminated Py and Cpy and fracture filling Cpy stringers	15	0 129	0 2	2	<2
498 6	500 6	2 0	10256	same as above but with more Cpy - 3-4%	95	1 710	5 2	3	<2
509 5	514 0	4 5	10257	similar to above but with 25% altered siltstone lens at top and 1-2% disseminated fg Py Cpy	90	0 914	2 4	1	<2
518.3	**534.0**	**15.7**		**Impure Sandstone (samite?)**, light to medium grey, medium to coarse grained, moderately biotitic, looks like intrusive, local foliated to banded with finer grained siltstone lenses Small epidote altered granodioritic dikelet common along fractures, some with trace disseminated Py Cpy Lower contact gradational					
534 0	**574 5**	**40 5**		**Weakly Altered Beddded Siltstone**, light purplish grey, fine grained to minor medium grained sandstone bands, well thinly bedded, local cross bedding recognizable weakly pyritic, local pyrrhotite Local scattered with light greenish grey veinlets or dikelets with small bleached alteration halos, some with disseminated Cpy, or Cpy veinlets Broken fractured ground at 572 to 573 ft Lower contact sharp @ 30 CA					

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

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
549 4	552 0	2 6	10258	Thinly bedded siltstone with 1% Cpy veinlets	20	0 250	0 2	97	<2
552 0	555 0	3 0	10259	same as above but more altered bleached	80	0 776	2	2	<2
574.5	**606 0**	**31 5**		**Skarnified Sandstone**, purplish grey to light green, medium grained, massive to weakly foliated, intercalated with light green vfg diopside skarn lenses (possibly limy argillite) Small dioritic dikelet common, local trace disseminated Py (Po) Cpy Lower contact gradational					
606 0	**624 1**	**18 1**		**Skarnified Argillite**, light green, vfg, massive to local speckled with dark grey to black biotitic to chloritic speckles Local vfg pyritic, with trace Cpy and stringers Small granodioritic dikelets and patches common with Ep alteration and some with trace Cpy Lower contact sharp by a dikelet @ 40 CA					
620 8	624 1	3 3	10260	2% vfg Py Cpy stringers Sample includes 15% dioritic dikelets	<5	0 013	<0 2	2	<2
624.1	**628 5**	**4.4**		**Impure Sandstone**, purplish brown, fine to medium grained, weakly foliated, fairly biotitic Lower contact irregular					
628 5	**631.0**	**2 5**		**Granodiorite Dike**, light greenish grey to light pinkish grey, coarse grained, top end 0 5 ft with 1-2% disseminated Cpy Lower contact irregular					
631.0	**683.0**	**52 0**		**Altered Arkosic Sandstone**, light greenish grey, fine to medium grained, moderately foliated to local banded at 35-40 CA Diopside skarnified, moderate to strong feldspar alteration, felsic dikelets, patches stringers common Local some less altered purplish siltstone sandstone bands remain Local disseminated and stringer veinlet Cpy 1-2% Lower contact gradational					
665 0	668 7	3 7	10261	altered arkosic sandstone with 1-2% disseminated fg Py Cpy and several fine fracture filling Cpy stringers	120	0 935	2 4	5	<2
683.0	**728.9**	**45 9**		**Granodiorite / Altered Impure Sandstone,** light greenish grey to light brownish grey, medium to coarse grained, massive to weakly foliated to banded, minor fg siltstone lenses Intercalated less altered brwonish and more altered greenish lenses fg Py Po common, local minor magnetite Trace Cpy in mostly diopside skarnified portions Sometimes the boundary between the two is gradational Lower contact sharp @ 40 CA					

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

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
697 0	699 5	2 5	10262	granodiorite with 1-2% vfg disseminated Py Po and trace Cpy	20	0 175	0 6	1	<2
728.9	**793.0**	**64.1**		**Sandstone / Siltstone**, light purplish grey medium grained massive impure sandstone intercalated with minor light greenish grey fg siltstone and argillite lenses Local weakly pyritic, trace Cpy in few fine fractures Lower contact gradational					
793.0	**820 3**	**27 3**		**Altered Argillite,** light green, vfg, mostly diopside skarn, minor local garnet patches and lenses, weakly foliated to banded, local disseminated Cpy and Cpy stringers and veinlets along fractures Trace disseminated bornite at 800 ft and 803 5 ft Lower contact gradational					
797 5	800 5	3 0	10263	about 1% Cpy, trace Bor	50	0 428	1 8	6	6
808 0	810 0	2 0	10264	about 1 5 2% Cpy	70	0 576	1 2	3	<2
820 3	**827 0**	**6 7**		**Siltstone,** light purplish grey, fg, massive, local weakly foliated, with minor coarser grained sandstone Lower contact gradational					
827 0	**835 0**	**8.0**		**Altered Argillite,** similar to that of 793 - 820 3 interval, but with no bornite, only local trace fracture filling Cpy stringers					
835 0				E O H					

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

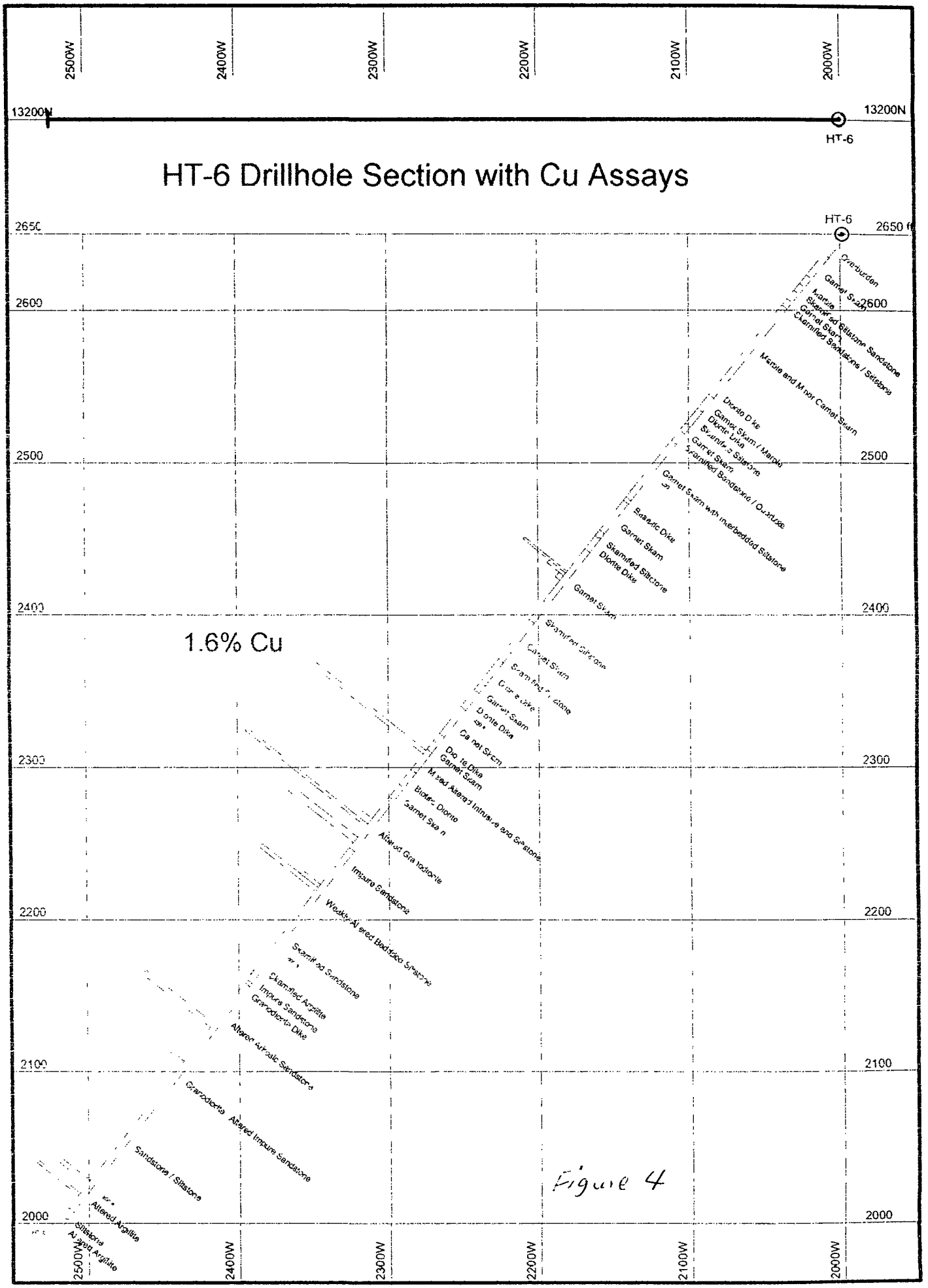

2500W
2400W
2300W
2200W
2100W
2000W
13200N
13200N
HT-6
HT-6 Drillhole Section with Cu Assays
HT-6
2650
2650
2600
2600
2500
2500
2400
2400
2300
2300
2200
2200
2100
2100
2000
2000
1.6% Cu
Overburden
Garnet Skarn
Marble
Skarned Siltstone Sandstone
Garnet Skarn
Skarned Sandstone / Siltstone
Marble and Minor Garnet Skarn
Diorite Dike
Garnet Skarn / Marble
Diorite Dike
Skarned Siltstone
Garnet Skarn
Skarned Sandstone / Quartzite
Garnet Skarn with Interbedded Siltstone
Subsidiary Dike
Garnet Skarn
Skarned Siltstone
Diorite Dike
Garnet Skarn
Skarned Siltstone
Garnet Skarn
Skarned Siltstone
Diorite Dike
Garnet Skarn
Diorite Dike
Garnet Skarn
Dio rite Dike
Garnet Skarn
Mixed Altered Intrusive and Sandstone
Bladder Diorite
Garnet Skarn
Altered Granodiorite
Impure Sandstone
Weakly Altered Bedded Sandstone
Skarned Sandstone
Skarned Argillite
Impure Sandstone
Granodiorite Dike
Altered Argillaceous Sandstone
Granodiorite Altered Impure Sandstone
Sandstone / Siltstone
Altered Argillite
Siltstone
Altered Argillite
2500W
2400W
2300W
2200W
2100W
2000W

Figure 4

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					

Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
0 0	**17.5**	**17 5**		Overburden					
17.5	**24 0**	**6 5**		**Granodiorite,** light grey, medium to coarse grained, moderately broken core, local Cpy veinlets and associated disseminated trace Cpy A 0 6 ft siltstone lens at 22 ft with rusty fractures and trace Mal coatings Lower contact broken					
24.0	**30 8**	**6 8**		**Skarnified Siltstone,** light to medium green, fine grained, with 0 5 to 1% disseminated fg Py Cpy and local Cpy stringers Lower contact at 20 CA					
26 8	30 8	4 0	10265	see above	10 0	0 362	0 4	4	<2
30.8	**75.0**	**44 2**		**Alterd Granodiorite / minor Skarn,** light to medium grey and greenish grey, medium to coarse grained granodiorite dominant, with a few fg skarnified siltstone lenses 36 5 - 38 is an Ep-Gar skarn lens, 40 3 42 1 is an Ep Diop skarn lens with contact at 20 CA 45 - 49 is skarnified siltstone dominant with diorite lenses and irregular fingers 63 64 is Gar-Diop skarn The granodiorite is weakly altered, local skarnified (garnet) granodiorite Epidote and chlorite alteration are developed near some fractures A few fractures nearly parallel to core axis with in-filled Cpy and disseminated Cpy in bleached alteration halo Lower contact sharp at 40 CA					
30 8	33 0	2 2	10266	granodiorite with 1% Cpy in a fracture nearly parallel to core axis	20	0 701	0 8	11	<2
42 1	45 0	2 9	10267	granodiorite with 1 2% Cpy in a couple of fractures nearly parallel to core axis	10	0 258	1 0	7	<2

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

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
75.0	**103.7**	**28.7**		**Mineralized Diopside Skarn / Skarnified Sediments / Granodiorite,** 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

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
103.7	**120 2**	**16 5**		**Altered Granodiorite,** 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**		**Skarnified Siltstone / Argillite,** 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**		**Altered Granodiorite,** 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**		**Siltstone Sandstone,** 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					

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

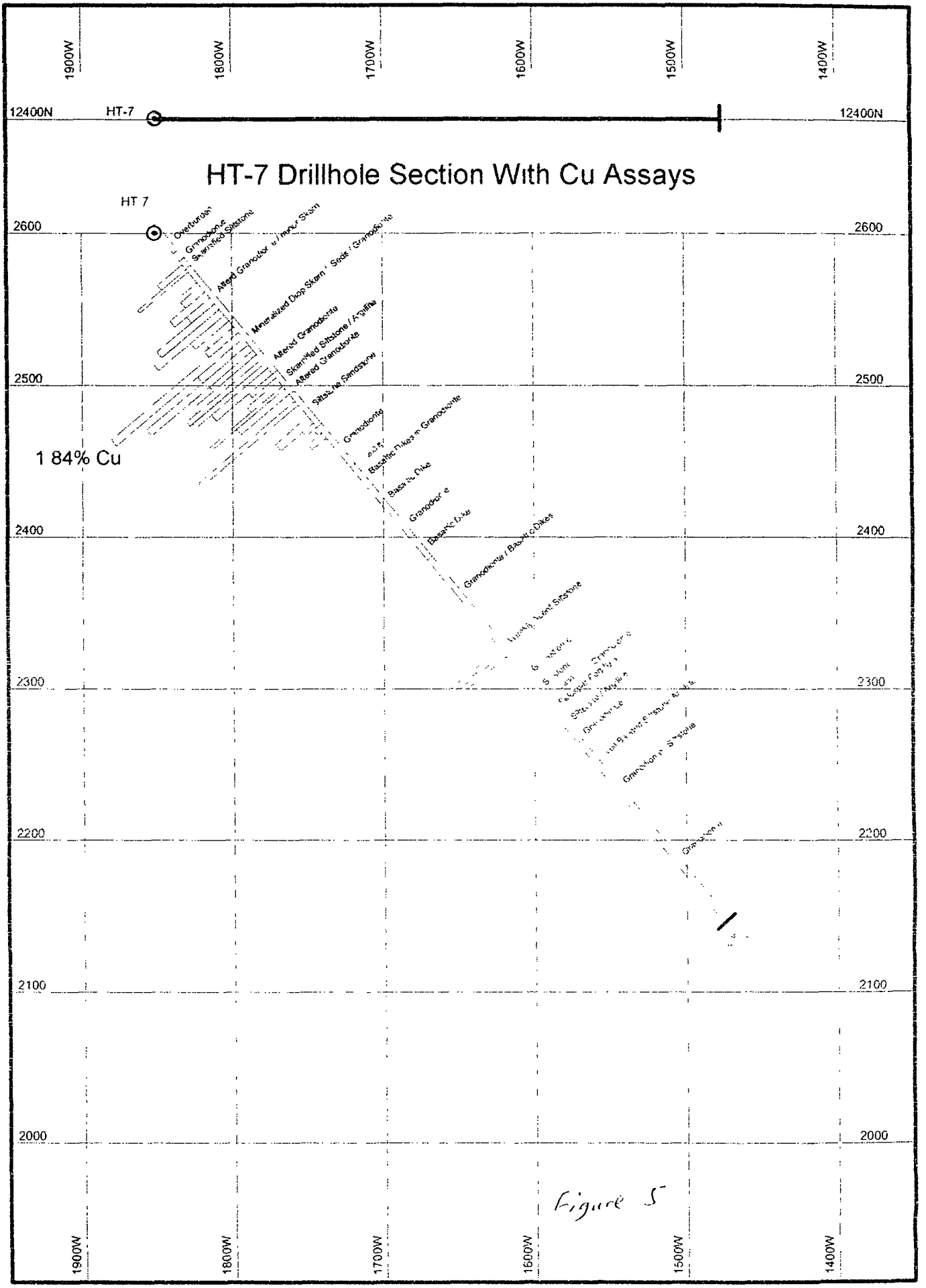
Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
143 7	147 0	3 3	10288	1% Cpy	35	1 400	1 6	1	<2
157 0	162 5	5 5	10289	1-2% Mal, trace Cpy	40	0 465	1 0	1	<2
162 5	166 0	3 5	10290	0 5 - 1% Cpy, trace Mal	15	0 160	1 0	2	<2
166 0	**200.5**	**34 5**		**Granodiorite,** 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
200.5	**219.0**	**18.5**		**Basaltic Dikes in Granodiorite,** this 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					
219.0	**240 5**	**21.5**		**Basaltic Dike,** this interval is mainly basaltic dike, with 4 granodiorite inclusions up to 1 ft size Lower contact sharp @ 45 CA					
240.5	**261.6**	**21.1**		**Granodiorite,** 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					
261.6	**279.6**	**18.0**		**Basaltic Dike,** psimilar to that of above top end weakly bleached with some rusty modern fractures lower contact sharp at 45 CA					
279 6	**335 7**	**56.1**		**Granodiorite / Basaltic Dikes,** granodiorite dominant with about 30% basaltic dikelets Only trace local occasional Cpy in fine chloritic to Ep altered fractures in the granodiorite					

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
335.7	**372 1**	**36 4**		**Weakly Alterd Siltstone,** 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
372.1	**384.2**	**12 1**		**Granodiorite,** 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					
384 2	**396.1**	**11.9**		**Siltstone,** light purplish grey, fine grained, massive, local moderately fractured with calciticveinlets, trace disseminated Py, local trace Cpy Lower contact irregular					
396.1	**402 5**	**6 4**		**Granodiorite,**Weakly Ep altered, weakly vuggy, local skarnified with minor garnet skarn Trace disseminated Py Cpy Lower contact broken core					
402.5	**411 0**	**8 5**		**Feldspar Porphyry,** 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					
411.0	**428 0**	**17.0**		**Siltstone / Argillite,** 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					

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

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
428 0	436 0	8 0		**Granodiorite,** 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		**Well Banded Siltstone Argillite,** 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		**Granodiorite / Siltstone,** 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		**Granodiorite,** light tomedium 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					

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


1900W
1800W
1700W
1600W
1500W
1400W
12400N
HT-7
12400N
HT-7 Drillhole Section With Cu Assays
HT 7
2600
2500
2400
2300
2200
2100
2000
Overburden
Granodiorite
Skarnified Siltstone
Altered Granodiorite / Minor Skarn
Mineralized Diop Skarn / Seds / Granodiorite
Altered Granodiorite
Skarnified Siltstone / Argillite
Altered Granodiorite
Siltstone Sandstone
Granodiorite
Basaltic Dikes in Granodiorite
Basaltic Dike
Granodiorite
Basaltic Dike
Granodiorite / Basaltic Dikes
1.84% Cu
Figure 5

Conclusions and Recommendations

The drilling result for this year has shown no significant break through in looking for both skarn and intrusive hosted Cu-Au mineralization However, drill hole HT-7 intersected moderately mineralized Cu-Au values for over one hundred feet near surface Based on results from previous drill hole HT-5, intrusive hosted Cu-Au mineralization is still a valid concept worth further pursuing Possibilities for intrusive hosted mineralization may also exist in the garbage dump site area, especially to the east-south-east of hole HT-1, where a VLF- EM anomaly about 1000 feet long is trending north east Further drilling in the garbage dump site is recommended

Statement of Costs

1. Field Work Personnel	
Xiangdong Jiang, consulting geologist	
May 31 – June 11, 2002, 12 days @ $250/day	$3,000 00
J Coyne, May 31, June 6, 2002, 2 days @ $240/day	$480 00
D Coyne, June 6, 2002, 1 day @ $200/day	$200 00
2. Diamond Drilling	
Two drill holes, 1424 ft (434 15m) @ $25 00 / ft	$35,600 00
Mob, demob and site preparation	$2,200 00
3. Assay and other	
Assay, ALS Chemex, 45 samples	$1,575 00
Sample shipping (BTS)	$97 76
Truck for geologist, 12 days @ $60/day	$720 00
Travel for geologist	$435 99
Field work supplies	$245 03
4. Report and Drafting	
Copy and drafting	$417 69
Report writing	$1 000 00
Sub-Total	$45,971 47
GST (7% of above)	$3218 00
Total Assessment Value	**$49,189.47**

Statement Of Qualifications

I, Xiangdong Jiang, residing at #8 – 10238 155A Street, Surrey, B C V3R 0V8, hereby certify that

1 I am an independent consulting geologist with office at the above address

2 I studied for four years at Changchun Geological University and graduated in 1982 with a Bachelor of Science degree, major in Mineral Geology and Exploration

3 I have been practicing in my profession for over 18 years as contract geologist and as independent consultant with major and junior mining companies working in Canada and overseas

4 I do not have any financial interest in the property described in this report or in any other properties held by the same owners, nor do I expect to receive any interest in the properties either directly or indirectly

5 This report is based on field work performed by myself and data from other reliable sources

6 I consent to the use of this report by Kluane Drilling Ltd , provided that no portion is used out of context

Dated on this 31st day of December, 2002, in Surrey, British Columbia

Xiangdong Jiang, B Sc
Consulting Geologist

Mailing address as above
Tel (604) 585-0880
Fax (604) 585-0890
E-mail xiangdongjiang@yahoo com

References

Kindle, E D , 1963 Copper and Iron Resources, Whitehorse Copper Belt, Yukon Territory, Geological Survey of Canada, Paper 63-41

Tenney, D , 1981 The Whitehorse Copper Belt Mining, Exploration and Geology (1967-1980) Dept Indian and Northern Affairs, Geology Section, Yukon, Bulletin 1, 29 p

Watson, P.H ,1984 The Whitehorse Copper Belt – A Compilation, Exploration and Geological Services Division – Yukon, Indian and Northern Affairs, Canada, Open File, 1 25,000 scale map with marginal notes

Meinert, L D , 1986 Gold in Skarns of the Whitehorse Copper Belt, Southern Yukon, in Yukon Geology, Vol 1, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, p 19-43

Yukon Archives, in July, 1999, Hudson Bay Exploration and Development Co donated more than 40 boxes and map tubes of data on Whitehorse Copper Belt to Yukon Archives

Jiang, X D 2000 and 2001Diamond Drilling on HAT Claims, assessment reports

Appendix 1

Analytical Data and Assay Certificates

ALS Chemex

Aurora Laboratory Services Ltd

Analytical Chemists Geochemists * Registered Assayers

212 Brooksbank Ave , North Vancouver
British Columbia, Canada V7J 2C1
PHONE 604-984-0221 FAX 604-984-0218

To KLUANE DRILLING LTD

14 MACDONALD RD
WHITEHORSE, YT
Y1A 4L2

A0218693

Comments ATTN XD JIANG CC JIM COYNE

CERTIFICATE A0218693

(RHA) - KLUANE DRILLING LTD

Project HAT
P O #

Samples submitted to our lab in Vancouver, BC
This report was printed on 03-JUL-2002

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	54	Pulv <250g to >85%/-75 micron
STO-21	54	Reject Storage-First 90 Days
LOG-22	54	Samples received without barcode
CRU-31	54	Crush to 70% minus 2mm
SPL-21	54	Splitting Charge
229	54	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	54	Weight of received sample	BALANCE	0 01	1000 0
Au-AA23	54	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-ICP41	54	Ag ppm 32 element, soil & rock	ICP-AES	0 2	100 0
Al-ICP41	54	Al % 32 element, soil & rock	ICP-AES	0 01	15 00
As-ICP41	54	As ppm 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	54	B ppm 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	54	Ba ppm 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	54	Be ppm 32 element, soil & rock	ICP-AES	0 5	100 0
Bi-ICP41	54	Bi ppm 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	54	Ca % 32 element, soil & rock	ICP-AES	0 01	15 00
Cd-ICP41	54	Cd ppm 32 element, soil & rock	ICP-AES	0 5	500
Co-ICP41	54	Co ppm 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	54	Cr ppm 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	54	Cu ppm 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	54	Fe % 32 element, soil & rock	ICP-AES	0 01	15 00
Ga-ICP41	54	Ga ppm 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	54	Hg ppm 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	54	K % 32 element, soil & rock	ICP-AES	0 01	10 00
La-ICP41	54	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	54	Mg % 32 element, soil & rock	ICP-AES	0 01	15 00
Mn-ICP41	54	Mn ppm 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	54	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	54	Na % 32 element, soil & rock	ICP-AES	0 01	10 00
Ni-ICP41	54	Ni ppm 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	54	P ppm· 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	54	Pb ppm 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	54	S % 32 element, rock & soil	ICP-AES	0 01	10 00
Sb-ICP41	54	Sb ppm 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	54	Sc ppm 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	54	Sr ppm 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	54	Ti % 32 element, soil & rock	ICP-AES	0 01	10 00
Tl-ICP41	54	Tl ppm 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	54	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	54	V ppm 32 element, soil & rock	ICP-AES	1	10000

ALS Chemex

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Comments ATTN XD JIANG CC JIM COYNE

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(RHA) - KLUANE DRILLING LTD

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METHOD CODE	NUMBER SAMPLES	DESCRIPTION
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229	54	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples Elements for which the nitric-aqua regia digestion is possibly incomplete are Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
W-ICP41	54	W ppm 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	54	Zn ppm 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

Aurora Laboratory Services Ltd
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave , North Vancouver
British Columbia, Canada V7J 2C1
PHONE 604-984-0221 FAX 604-984-0218

To KLUANE DRILLING LTD **

14 MACDONALD RD
WHITEHORSE, YT
Y1A 4L2

Project HAT
Comments ATTN XD JIANG CC JIM COYNE

Certificate Date 03-JUL-2002
Invoice No I0218693
P O Number
Account RHA

CERTIFICATE OF ANALYSIS A0218693

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
10251	94139402	1 10	5	1 4	0 84	10	< 10	90	< 0 5	< 2	5 39	< 0 5	20	47	5980	0 95	< 10	< 1	0 05	< 10
10252	94139402	2 18	10	0 2	1 15	8	< 10	130	< 0 5	< 2	1 79	< 0 5	9	38	2260	2 02	< 10	< 1	0.31	< 10
10253	94139402	2 30	< 5	< 0 2	0 46	< 2	< 10	10	< 0 5	< 2	8 70	< 0 5	1	35	605	0 29	< 10	< 1	0 02	< 10
10254	94139402	2 00	65	9 4	2 14	16	< 10	80	< 0 5	< 2	7 08	5 5	19	81	>10000	3 87	< 10	< 1	0 24	< 10
10255	94139402	3 60	15	0 2	0 71	2	< 10	40	< 0 5	< 2	1 20	< 0 5	13	31	1290	1 86	< 10	< 1	0 05	< 10
10256	94139402	1 50	95	5 2	0 67	2	< 10	60	< 0 5	< 2	2 03	< 0 5	6	29	>10000	1 77	< 10	< 1	0 09	< 10
10257	94139402	3 34	90	2 4	0 74	< 2	< 10	60	< 0 5	< 2	1 14	< 0 5	17	50	9140	2 26	< 10	< 1	0 07	< 10
10258	94139402	2 14	20	0 2	1 95	< 2	< 10	430	< 0 5	< 2	1 12	< 0 5	16	93	2500	3 71	< 10	< 1	1 54	< 10
10259	94139402	2 06	80	2 0	1 24	2	< 10	160	< 0 5	< 2	1 33	< 0 5	17	64	7760	3 07	< 10	< 1	0 50	< 10
10260	94139402	2 36	< 5	< 0 2	1 90	< 2	< 10	30	< 0 5	< 2	1 87	< 0 5	15	27	131	1 75	< 10	< 1	0 04	< 10
10261	94139402	2 68	120	2 4	0 95	< 2	< 10	40	< 0 5	< 2	1 28	< 0 5	16	47	9350	2 04	< 10	< 1	0.09	< 10
10262	94139402	1 80	20	0 6	0 89	< 2	< 10	150	< 0 5	< 2	0 89	< 0 5	17	62	1745	2 92	< 10	< 1	0 28	< 10
10263	94139402	2 32	50	1 8	0 87	< 2	< 10	10	< 0 5	6	2 93	< 0 5	1	32	4280	1 37	< 10	< 1	0 05	< 10
10264	94139402	1 72	70	1 2	2 41	< 2	< 10	30	< 0 5	< 2	3 47	< 0 5	3	19	5760	0 79	< 10	< 1	0.05	< 10
10265	94139402	3 00	10	0 4	1 32	< 2	< 10	40	< 0 5	< 2	2 90	< 0 5	10	93	3620	2 07	< 10	< 1	0.08	< 10
10266	94139402	1 72	20	0 8	0 85	2	< 10	50	< 0 5	< 2	1 39	< 0 5	10	74	7010	1 55	< 10	< 1	0.07	< 10
10267	94139402	2 22	10	1 0	0 89	2	< 10	50	< 0 5	< 2	1 48	< 0 5	12	49	2580	1 31	< 10	< 1	0.04	< 10
10268	94139402	3 68	10	0 2	1 02	< 2	< 10	100	< 0 5	< 2	1 06	< 0 5	13	115	2760	3 80	< 10	< 1	0 13	< 10
10269	94139402	3 68	35	0 8	0 51	< 2	< 10	30	< 0 5	< 2	0 97	< 0 5	4	26	5000	0.90	< 10	< 1	0 06	< 10
10270	94139402	3 60	20	0 4	0 58	< 2	< 10	50	< 0 5	< 2	1 09	< 0 5	4	39	3270	0 89	< 10	< 1	0 07	< 10
10271	94139402	3 42	30	1 4	1 03	< 2	< 10	40	< 0 5	< 2	2 04	< 0 5	7	58	8250	1.83	< 10	< 1	0 08	< 10
10272	94139402	3 46	65	2 6	1 33	< 2	< 10	90	< 0 5	22	1 66	< 0 5	13	75	9480	2 35	< 10	< 1	0 12	< 10
10273	94139402	3 10	20	1 2	0 93	< 2	< 10	50	< 0 5	6	1.92	< 0 5	4	23	4770	0 97	< 10	< 1	0 09	< 10
10274	94139402	3 62	10	0 6	1 44	2	< 10	80	< 0 5	< 2	2 41	< 0.5	6	40	3560	1 56	< 10	< 1	0 12	< 10
10275	94139402	3 92	80	3 0	0 43	< 2	< 10	20	< 0 5	18	1 41	< 0 5	1	17	4180	0 51	< 10	< 1	0 05	< 10
10276	94139402	3 50	365	21 2	0 56	< 2	< 10	20	< 0 5	84	1 72	< 0 5	1	11	>10000	0 81	< 10	< 1	0 05	< 10
10277	94139402	3 54	65	3 6	0 91	< 2	< 10	50	< 0 5	16	2 74	< 0 5	3	16	6600	1 30	< 10	< 1	0.13	< 10
10278	94139402	3 54	435	6 0	1 06	< 2	< 10	30	< 0 5	50	2 56	< 0 5	7	63	>10000	1 89	< 10	< 1	0 06	< 10
10279	94139402	2 84	50	1 4	1 54	< 2	< 10	100	< 0 5	6	1 03	< 0 5	11	72	6310	3 30	< 10	< 1	0 10	< 10
10280	94139402	2 98	65	3 0	0 75	< 2	< 10	50	< 0 5	10	1 41	< 0 5	6	42	9310	1 50	< 10	< 1	0 07	< 10
10281	94139402	2 58	35	6 0	0 85	< 2	< 10	40	< 0 5	14	1 65	< 0 5	6	47	>10000	1 68	< 10	< 1	0 07	< 10
10282	94139402	2 68	20	1 0	1 03	< 2	< 10	140	< 0 5	< 2	1 19	< 0 5	10	98	>10000	4 09	< 10	< 1	0 15	< 10
10283	94139402	3 74	20	0 6	0 80	2	< 10	30	< 0 5	< 2	1 25	< 0 5	7	54	8090	1 59	< 10	< 1	0 06	< 10
10284	94139402	2 36	20	0 6	1 35	2	< 10	90	< 0 5	< 2	3 12	< 0 5	5	44	3420	1 32	< 10	< 1	0 11	< 10
10285	94139402	3 12	80	4 0	1 22	< 2	< 10	30	< 0 5	18	3 42	< 0 5	3	23	4510	0 74	< 10	< 1	0 10	< 10
10286	94139402	1 68	155	7 4	0 84	< 2	< 10	30	< 0 5	40	1 88	< 0 5	5	31	>10000	1 33	< 10	< 1	0 09	< 10
10287	94139402	3 06	160	4 6	1 10	< 2	< 10	120	< 0 5	18	1 47	< 0 5	8	59	7000	2 26	< 10	< 1	0 19	< 10
10288	94139402	1 90	35	1 6	1 74	2	< 10	130	< 0 5	< 2	1 26	< 0 5	21	115	>10000	5 28	< 10	< 1	0.32	< 10
10289	94139402	1 80	40	1 0	2 31	2	< 10	120	< 0 5	< 2	1 78	< 0 5	17	104	4650	4 26	< 10	< 1	0 11	< 10
10290	94139402	1 98	15	1 0	2 05	4	< 10	70	< 0 5	< 2	1 60	< 0 5	14	43	1600	3 98	< 10	< 1	0 10	< 10

CERTIFICATION _____*

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To KLUANE DRILLING LTD **

14 MACDONALD RD
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Y1A 4L2

Project HAT
Comments ATTN XD JIANG CC JIM COYNE

Certificate Date 03-JUL-2002
Invoice No I0218693
P O Number
Account RHA

CERTIFICATE OF ANALYSIS A0218693

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
10251	94139402	0 06	65	3	0 04	7	370	< 2	0 91	< 2	< 1	100	0 01	< 10	< 10	6	< 10	8
10252	94139402	0 50	60	3	0 13	12	1020	2	1 20	< 2	< 1	100	0.08	< 10	< 10	16	< 10	32
10253	94139402	0 05	125	1	0 01	1	140	< 2	0 09	< 2	< 1	94	0.01	< 10	10	5	< 10	4
10254	94139402	2 54	760	14	0 07	26	1530	234	1 65	< 2	9	314	0 14	< 10	10	130	< 10	470
10255	94139402	0 18	60	2	0 11	21	1170	< 2	1 47	< 2	< 1	167	0 08	< 10	< 10	16	< 10	18
10256	94139402	0 25	75	3	0 09	12	610	2	1 21	< 2	< 1	299	0 05	< 10	< 10	13	< 10	36
10257	94139402	0 30	105	1	0 12	21	1110	< 2	1 23	< 2	1	108	0 10	< 10	< 10	47	< 10	50
10258	94139402	1 91	310	97	0 14	27	1500	< 2	0 39	< 2	3	67	0 32	< 10	< 10	132	< 10	42
10259	94139402	1 03	235	2	0 11	26	1350	< 2	1 10	< 2	1	72	0 17	< 10	< 10	69	< 10	48
10260	94139402	0 30	110	2	0 25	29	1520	< 2	1 04	< 2	1	179	0 07	< 10	< 10	20	< 10	20
10261	94139402	0 51	105	5	0 11	31	1070	< 2	1 39	< 2	< 1	76	0 07	< 10	< 10	23	< 10	42
10262	94139402	0 53	130	1	0 19	34	1220	< 2	1 39	< 2	1	84	0 14	< 10	< 10	50	< 10	30
10263	94139402	0 06	170	6	0 05	3	1160	2	0 40	< 2	< 1	62	0 05	< 10	< 10	15	30	6
10264	94139402	0 27	50	3	0 18	8	1140	< 2	0 57	< 2	< 1	195	0 06	< 10	< 10	8	10	8
10265	94139402	0 70	375	4	0 12	13	1210	< 2	0 42	< 2	1	112	0 12	< 10	< 10	78	< 10	40
10266	94139402	0 54	165	11	0 11	23	1140	< 2	0 69	< 2	1	68	0 11	< 10	< 10	41	< 10	26
10267	94139402	0 46	170	7	0 06	16	1550	< 2	0 49	< 2	< 1	108	0 07	< 10	< 10	28	< 10	28
10268	94139402	0 72	190	10	0 12	19	1540	< 2	0 53	< 2	1	63	0 13	< 10	< 10	140	< 10	30
10269	94139402	0 27	75	5	0 09	5	1110	< 2	0 45	< 2	1	48	0 06	< 10	< 10	24	< 10	10
10270	94139402	0 31	90	7	0 11	7	1130	< 2	0 33	< 2	1	68	0 06	< 10	< 10	26	< 10	10
10271	94139402	0 44	200	9	0 09	12	1710	< 2	0 79	< 2	1	95	0 12	< 10	< 10	57	20	24
10272	94139402	0 86	170	14	0 12	18	2050	4	0 91	< 2	2	80	0 15	< 10	< 10	70	20	26
10273	94139402	0 19	145	27	0 07	7	1010	< 2	0 48	< 2	< 1	124	0 06	< 10	< 10	20	30	8
10274	94139402	0 60	290	6	0 09	8	910	< 2	0 43	< 2	< 1	73	0 09	< 10	< 10	34	< 10	16
10275	94139402	0 22	135	3	0 03	3	50	< 2	0 33	< 2	< 1	24	0 04	< 10	< 10	10	< 10	8
10276	94139402	0 15	115	1	0 03	2	90	2	0 93	< 2	< 1	35	0 03	< 10	< 10	9	< 10	6
10277	94139402	0 31	265	45	0 04	6	210	< 2	0 50	< 2	< 1	78	0 03	< 10	< 10	13	30	12
10278	94139402	0 43	195	52	0 08	10	1600	16	1 20	< 2	1	49	0 09	< 10	< 10	50	60	28
10279	94139402	1 43	295	3	0 10	14	1320	< 2	0 62	< 2	1	70	0 15	< 10	< 10	97	< 10	52
10280	94139402	0 38	125	5	0 10	10	1160	< 2	0 83	< 2	1	98	0 07	< 10	< 10	32	< 10	16
10281	94139402	0 34	135	4	0 08	10	1160	< 2	0 82	< 2	< 1	73	0 06	< 10	< 10	39	< 10	20
10282	94139402	0 76	220	1	0 12	18	1060	< 2	0 86	< 2	1	94	0 16	< 10	< 10	137	< 10	40
10283	94139402	0 46	145	2	0 10	16	1090	< 2	0 74	< 2	1	141	0 08	< 10	< 10	41	< 10	20
10284	94139402	0 65	305	3	0 10	12	1130	6	0 33	< 2	2	247	0 05	< 10	< 10	40	< 10	28
10285	94139402	0 41	345	8	0 07	5	1180	< 2	0 29	< 2	1	268	0 05	< 10	< 10	23	< 10	14
10286	94139402	0 59	165	4	0 09	9	1350	2	0 65	< 2	3	91	0 07	< 10	< 10	41	< 10	14
10287	94139402	0 86	215	4	0 11	15	1370	< 2	0 54	< 2	3	110	0 14	< 10	< 10	72	< 10	24
10288	94139402	1 50	440	1	0 11	36	1400	< 2	1 64	< 2	5	73	0 16	< 10	< 10	122	< 10	54
10289	94139402	2 17	550	1	0 06	20	1350	6	0 01	< 2	7	91	0 03	< 10	< 10	154	< 10	58
10290	94139402	1 60	905	2	0 13	13	1110	< 2	0 80	< 2	5	75	0 04	< 10	< 10	78	< 10	52

CERTIFICATION _____

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To KLUANE DRILLING LTD **

14 MACDONALD RD
WHITEHORSE, YT
Y1A 4L2

Project HAT
Comments ATTN XD JIANG CC JIM COYNE

Certificate Date 03-JUL-2002
Invoice No 10218693
P O Number
Account RHA

CERTIFICATE OF ANALYSIS A0218693

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
10291	94139402	2 92	5	< 0 2	2 07	6	< 10	220	< 0 5	< 2	1 57	< 0 5	17	70	514	4 08	< 10	< 1	0 09	< 10
10292	94139402	2 90	20	0 4	1 09	2	< 10	90	< 0 5	< 2	2 45	< 0 5	11	57	1975	1 93	< 10	< 1	0 05	< 10
10293	94139402	2 60	35	1 0	1 38	2	< 10	30	< 0 5	< 2	1 58	< 0 5	20	34	5780	2 81	< 10	< 1	0 05	< 10
10294	94139402	2 06	40	1 4	2 21	8	< 10	40	< 0 5	< 2	1 77	< 0 5	25	95	7370	2 91	< 10	< 1	0 07	< 10
10295	94139402	2 30	55	1 6	1 42	6	< 10	40	< 0 5	< 2	1 59	< 0 5	17	36	8650	2 47	< 10	< 1	0 09	< 10
10296	94139402	1 48	< 5	< 0 2	1 84	< 2	< 10	50	< 0 5	< 2	3 23	< 0 5	13	12	52	4 27	< 10	< 1	0 18	10
10297	94139402	2 78	< 5	< 0 2	0 32	18	< 10	< 10	< 0 5	< 2	5 74	< 0 5	2	15	932	3 68	< 10	< 1	< 0 01	< 10
10298	94139402	5 70	15	0 2	0 12	2	< 10	< 10	< 0 5	< 2	1 31	6 5	45	10	3180	>15 00	10	< 1	< 0 01	< 10
10299	94139402	2 82	10	< 0 2	0 14	< 2	< 10	< 10	< 0 5	< 2	1 93	5 5	42	11	858	>15 00	10	< 1	< 0 01	< 10
10300	94139402	3 96	30	1 6	0 38	10	< 10	< 10	< 0 5	< 2	7 02	3 0	18	23	2990	>15 00	< 10	< 1	< 0 01	< 10
10301	94139402	2 90	70	6 4	0 46	16	< 10	< 10	< 0 5	< 2	8 33	0 5	9	29	>10000	8 03	< 10	< 1	< 0 01	< 10
10302	94139402	3 00	60	2 8	0 48	14	< 10	< 10	< 0 5	< 2	7 22	< 0 5	6	22	8440	4 89	< 10	< 1	< 0 01	< 10
10303	94139402	2 92	5	0 2	0 21	10	< 10	< 10	< 0 5	< 2	7 14	< 0 5	1	16	739	5 14	< 10	< 1	< 0 01	< 10
10304	94139402	2 70	10	< 0 2	0 52	8	< 10	< 10	< 0 5	< 2	7 76	< 0 5	2	17	377	4 55	< 10	< 1	< 0 01	< 10

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Page Number 2-B
Total Pages 2
Certificate Date 03-JUL-2002
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CERTIFICATE OF ANALYSIS A0218693

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
10291	94139402	1 39	895	3	0 14	28	1170	2	0 52	< 2	5	395	0 06	< 10	< 10	104	< 10	46
10292	94139402	0 91	465	2	0 08	18	1020	8	0 24	< 2	2	137	0 06	< 10	< 10	59	< 10	30
10293	94139402	0 69	210	63	0 14	26	1480	2	1 41	< 2	1	88	0.07	< 10	< 10	42	< 10	54
10294	94139402	0 95	260	8	0 22	75	1460	< 2	1 39	< 2	1	120	0.07	< 10	< 10	47	< 10	64
10295	94139402	0 83	150	17	0 12	22	1300	2	1 26	< 2	2	59	0 08	< 10	< 10	59	< 10	40
10296	94139402	1 22	635	3	0 07	5	2200	2	0 07	< 2	6	170	0 04	< 10	< 10	92	< 10	60
10297	94139402	0 36	500	1	< 0 01	5	880	< 2	0 10	< 2	< 1	21	< 0 01	< 10	< 10	11	10	20
10298	94139402	0 22	630	< 1	0 01	97	740	96	0 34	< 2	< 1	4	< 0 01	< 10	< 10	19	50	198
10299	94139402	0 18	650	< 1	< 0 01	67	120	< 2	0 10	< 2	< 1	3	< 0 01	< 10	< 10	17	40	44
10300	94139402	0 10	< 5	< 1	< 0 01	42	420	< 2	< 0 01	< 2	< 1	4	< 0 01	< 10	10	< 1	20	34
10301	94139402	0 13	530	1	< 0 01	7	260	< 2	1 61	< 2	< 1	6	< 0 01	< 10	10	20	10	48
10302	94139402	0 40	< 5	2	0 01	6	900	< 2	1 04	< 2	< 1	20	0 02	< 10	10	19	< 10	24
10303	94139402	0 16	< 5	3	< 0 01	1	40	< 2	0 13	< 2	< 1	8	< 0.01	< 10	10	5	40	8
10304	94139402	0 24	< 5	2	< 0 01	4	50	4	0 19	< 2	< 1	14	< 0.01	< 10	10	13	< 10	10

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To KLUANE DRILLING LTD

14 MACDONALD RD
WHITEHORSE, YT
Y1A 4L2

A0219278

Comments ATTN XD JIANG CC JIM COYNE

CERTIFICATE A0219278

(RHA) - KLUANE DRILLING LTD

Project HAT
P O #

Samples submitted to our lab in Vancouver, BC.
This report was printed on 08-JUL-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	9	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Cu-AA62	9	Cu % HNO3-HClO4-HF-HCl dig'n	AAS	0 01	50 0

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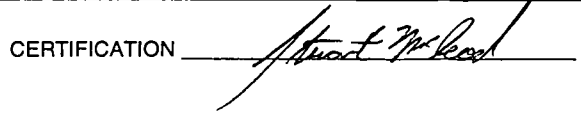
Page Number 1
Total Pages 1
Certificate Date 08-JUL-2002
Invoice No I0219278
P O Number
Account RHA

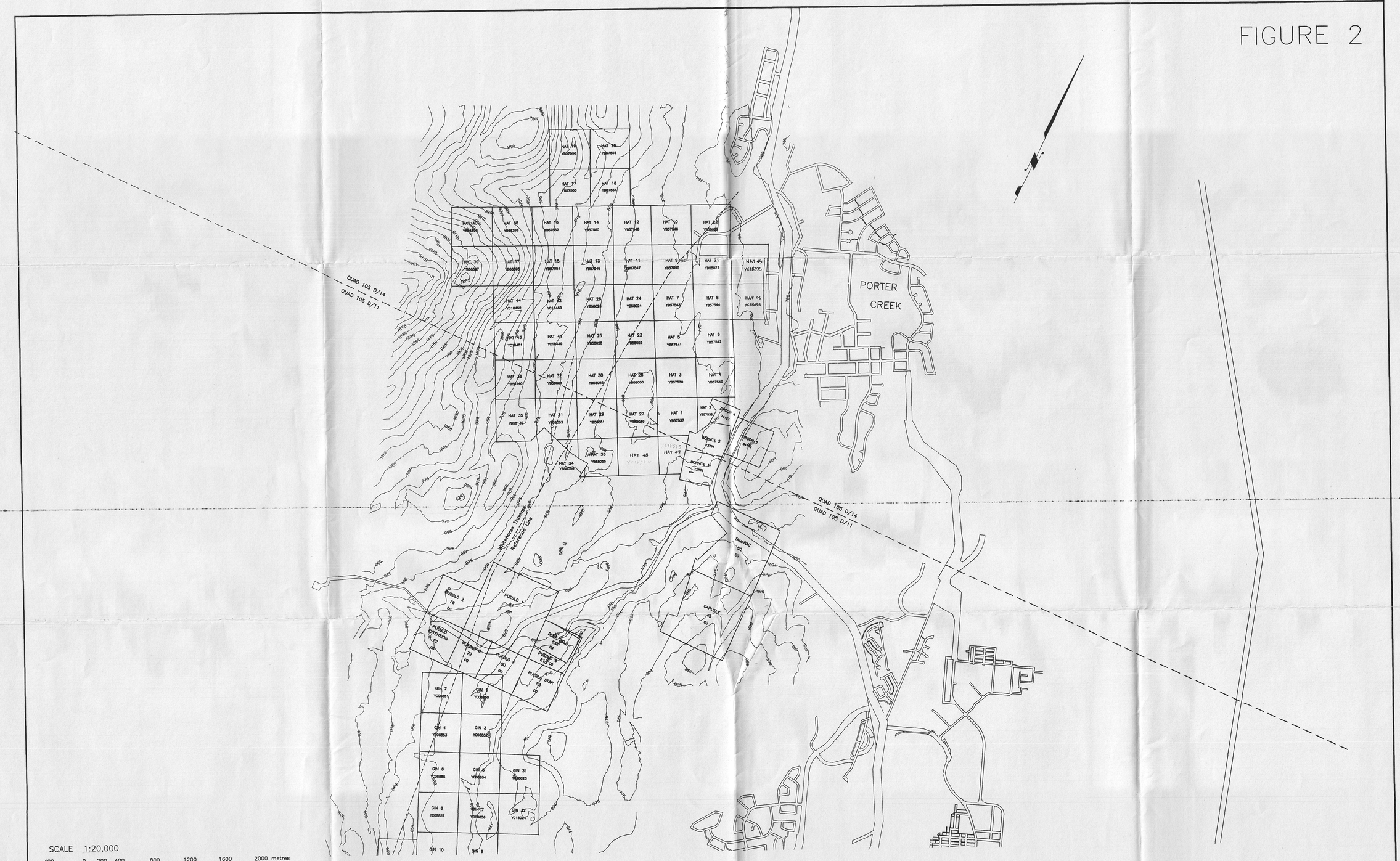
CERTIFICATE OF ANALYSIS A0219278

SAMPLE	PREP CODE	Cu %
10254	212 --	1.66
10256	212 --	1.71
10276	212 --	1.84
10278	212 --	1.47
10281	212 --	1.07
10282	212 --	1.03
10286	212 --	1.08
10288	212 --	1.40
10301	212 --	1.97

CERTIFICATION 

OVERLIMITS from A0218693

FIGURE 2



SCALE 1:20,000

400 0 200 400 800 1200 1600 2000 metres

UNDERHILL GEOMATICS LTD.

CONSULTING ENGINEERS

VANCOUVER, BRITISH COLUMBIA WHITEHORSE, YUKON

DATE	ISSUED FOR
22/06/00	XDJ

No.	DATE	BY	REVISION	APP'D
1	22/06/00	PR	Added HAT CLAIMS 41 to 44 / Scale change to 1:20,000	

DESIGN BY

DRAWN BY PNR

APPROVED XDJ

JOB No. 99072

DATE 23/02/00

SCALE 1:20,000

CLIENT KLUANE DRILLING LTD.

PROJECT HAT CLAIM PROJECT

TITLE

HAT PROPERTY CLAIMS MAP

SHEET 1 OF 1

DRAWING NUMBER 256-24

REVISION 1

F.B. PG.

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Figure 3

HAT Property Geology and Data Compilation Map

Scale: 1: 4800

HAT 19 YB57555

HAT 20 YB57556

HAT 17 YB57553

HAT 18 YB57554

HAT 40 YB66398

HAT 38 YB66396

HAT 16 YB57552

HAT 14 YB57550

HAT 12 YB57548

HAT 10 YB57546

HAT 22 YB58022

HAT 39 YB66397

HAT 37 YB66395

HAT 15 YB57551

HAT 13 YB57549

HAT 11 YB57547

HAT 9 YB57545

HAT 21 YB58021

HAT 45 YC18695

HAT 44 YC18452

HAT 42 YC18450

HAT 26 YB58026

HAT 24 YB58024

HAT 7 YB57543

HAT 8 YB57544

HAT 46 YC18696

HAT 43 YC18451

HAT 41 YC18449

HAT 25 YB58025

HAT 23 YB58023

HAT 5 YB57541

HAT 6 YB57542

HAT 36 YB58140

HAT 32 YB58054

HAT 30 YB58052

HAT 28 YB58050

HAT 3 YB57539

HAT 4 YB57540

HAT 35 YB58139

HAT 31 YB58053

HAT 29 YB58051

HAT 27 YB58049

HAT 1 YB57537

HAT 2 YB57538

HAT 34 YB58056

HAT 33 YB58055

HAT 48 YC18854

HAT 47 YC18853

NTS 105 D/14
105 D/11

Base line

Whitehorse Reference Grid Line

I.P. Chargeability Anomaly contour lines

I.P. Chargeability Anomaly

Inferred Geological Boundary lines

2000 I.P Survey Lines Chargeability Anomaly strong - moderate

BL-1

BL-2

BL-3

120 N

136 N

132 N

128 N

124 N

120N

100N

HT-1

HT-2

HT-3

HT-4

HT-5

HT-6

HT-7

Mag. Anomaly

YLF-EM ZONE

Wa-Eagle Open Pit

ZIRCON 4 74157

ZIRCON 2 64183

BORNITE 2 73784

BORNITE 1 73783

ANACONDA

RABBITS FOOT

Alaska Highway

NTS 105 D 14
105 D/11

2dacgp WITH MINOR PYACPY

GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

Q — ALLUVIUM, GLACIAL DRIFT

10 — MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

9a — ACIDIC GRANITIC, APLITE, FELSITE, 9a-may predate skarn

9b — BASIC ANDESITE, DIORITE, POST-ORE, 9bp - porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

8 — DIORITE 8a - ALTERED (ENDOSKARN); 8b - MINERALISED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

7 — 7g-GRANITE, 7p-GRANODIORITE, 7m-QUARTZ-MONZONITE

LOWER JURASSIC & LATER

6 — LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

5 — LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

4q - QUARTZITE

4 — SEDIMENTS - NONCALCAREOUS 4g - GREYWACKE; 4k - ARKOSE

3 — SKARN BARREN WITH.....
a - ACTINOLITE
b - BORNITE
c - CHLORITE
d - DIOPSIDE
e - EPIDOTE
f - FELDSPAR
g - GARNET
h - HEMATITE
m - MAGNETITE
s - SERPENTINE
t - TREMOLITE
w - WOLLASTONITE
z - ZOISITE

2 — MINERALISED SILICATE SKARN...

1 — MINERALISED MAGNETITE SKARN...

Previous Drill Holes

Year 2000 Drill Holes
2001
2002

Trenches

Kluane Drilling Ltd.

HAT Property Geology and Data Compilation Map

Scale:	1:4800	Figure:	3
Mining District:	Whitehorse	NTS:	105 D/11,14
Drawn By:	XDJ	Date:	August 2002