

[YMIP 01 028]

ASSESSMENT REPORT

DIAMOND DRILLING

on

HAT 27 and HAT 23 CLAIMS

YB58049 and YB58023

May 24 – June 13 2001

Latitude 60°44 44 N Longitude 134°44 44

NTS 105 D/11 14

**WHITEHORSE MINING DISTRICT
YUKON TERRITORY**

for

Kluane Drilling Ltd
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Whitehorse Yukon
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by

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July 20 2001

Summary

In the summer of 2001 Kluane Drilling Ltd continued its exploration program on the HAT claims in the north end of the Whitehorse Copper Belt. 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. The IP anomaly to the west of HT-5 appears getting stronger (over 60 milli-seconds) and open beyond the end of the survey line. Potential for an intrusive hosted (modified Fort Knox style?) Cu-Au deposit may exist. Further drilling is strongly recommended for this area. It is also 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 2001 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 three diamond drill holes totaling 2005 ft (611.12 m) A total of 70 drill core samples were collected and analyzed for gold and copper and 32 additional elements by ALS Chemex in North Vancouver

The overall target evaluation program is partially funded by Yukon Mining Incentive Program (YMIP designation number 01 028) The diamond drilling was done by Kluane Drilling Ltd of Whitehorse as owner operator

Property Location and Access

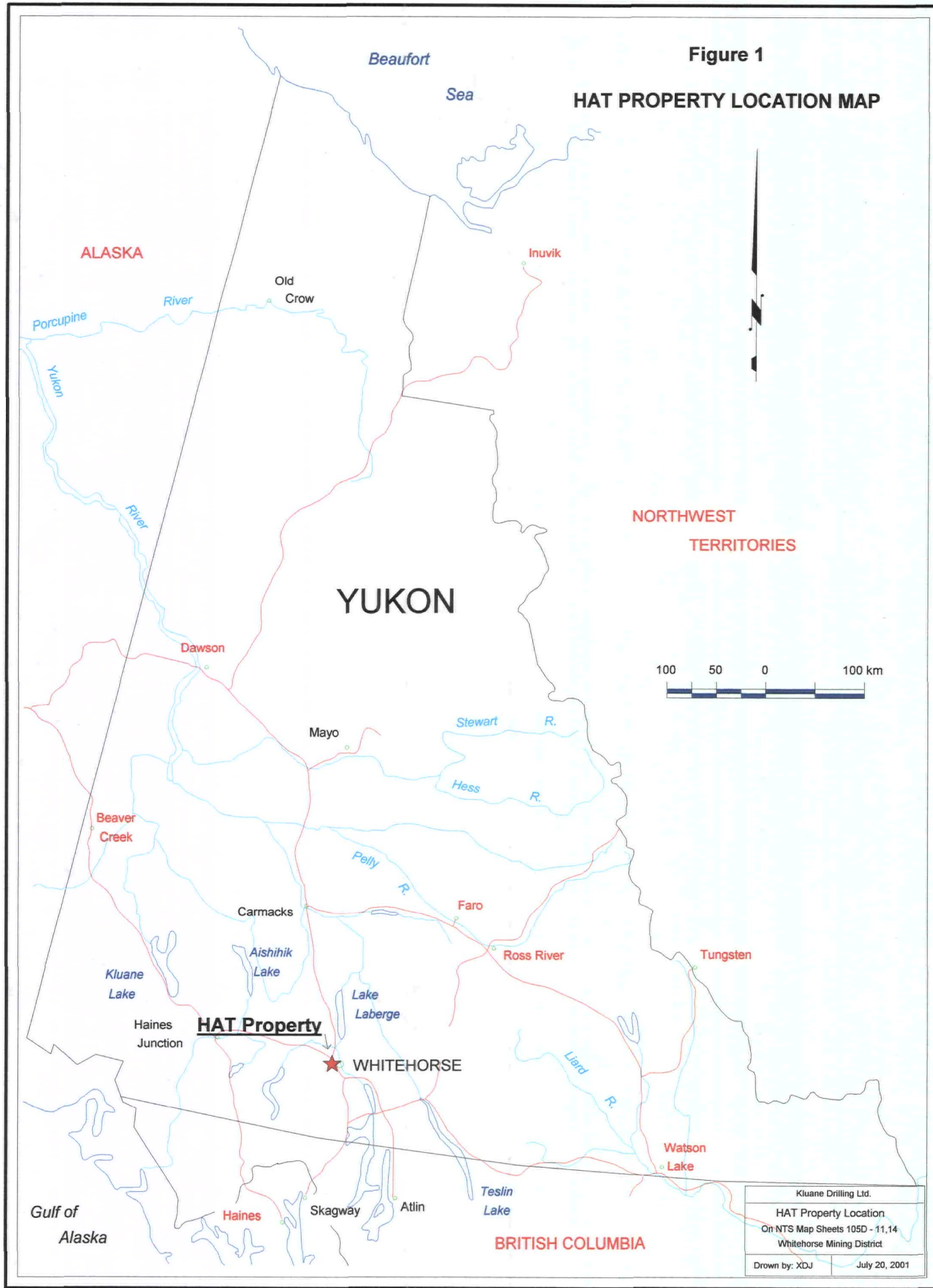
The HAT property consists of 52 contiguous mineral claims including HAT 1 – 48 and Bornite 1 2 and Zircon 2 and Zircon 4 The claim status and ownership are listed in Table – 1 The claims are located about 5 km NW of Whitehorse City downtown and to the west of Alaska Highway with its center at about latitude 60° 45' 3" N and longitude 135° 10' 5" W straddling NTS sheets 105D/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%	2009/11/11
Hat 21 26	YB58021 YB58026	6	Whitehorse	KD 50 % Norwest 50%	2011/11/11
Hat 27 34	YB58049 YB58056	8	Whitehorse	KD 50% Norwest 50%	2011/11/11
Hat 35 36	YB58139 YB58140	2	Whitehorse	KD 50% Norwest 50%	2010/11/11
Hat 37 40	YB66395 YB66398	4	Whitehorse	KD 50% Norwest 50%	2009/11/16
Hat 41 44	YC18449 YC18452	4	Whitehorse	KD 50% Norwest 50%	2009/11/11
Hat 45 46	YC18695 YC18696	2	Whitehorse	KD 50% Norwest 50%	2009/11/11
Hat 47 48	YC18853 YC18854	2	Whitehorse	KD 100%	2005/11/11
Bornite 1 2	73783 73784	2	Whitehorse	KD 100%	2010/01/01
Zircon 2	64183	1	Whitehorse	KD 100%	2010/01/01
Zircon 4	74157	1	Whitehorse	KD 100%	2010/01/01

Figure 1

HAT PROPERTY LOCATION MAP



Kluane Drilling Ltd.
HAT Property Location
On NTS Map Sheets 105D - 11,14
Whitehorse Mining District
Drawn by: XDJ July 20, 2001

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 is 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 a great amount of work done on the Whitehorse Copper Belt over its more than one hundred year history. Numerous publications are available today. From the first claim staked by Jack McIntyre 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 1920s, Noranda Mines worked in late 1940s, Hudson Bay Exploration and Development Company worked in 1950s and from late 1970s to 1990s, and Imperial Mines and Metals (later changed name to New Imperial Mines Ltd. in 1957) from 1950s to late 1970s. 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.

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 Plutonic 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 interbedded 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.

2001 Diamond Drilling Program

In the summer of 2001, three diamond drill holes totaling 2005 ft (611.12m) were completed on the HAT property including two holes in the garbage dump site area and one hole in the northwest on L132N / 16+50 west. Drilling started on May 25, 2001 and finished by June 11, 2001. Kluane Drilling Ltd. as owner operator completed the diamond drilling. The first hole HT – 3 was re-drilled from the same collar after drill rod stuck at 180 ft. Core recoveries were above 95%. Ground disturbance was kept to minimal.

The objective of this program is to drill test the extent of the skarn mineralization (10 55m averaging 4 99% Cu 1 05 g/t Au and 40 28 g/t Ag) intersected last year in drill hole HT 1 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 all three holes drilled this year although with no significant width The best copper mineralization intersected this year is from HT-4 with 9 6 ft averaged 3 12% Cu and 359 ppb Au The scattered highly anomalous Cu-(Au) values intersected in HT-5 shed new light in searching for an intrusive hosted Cu-Au-Mo deposit in the region

HT – 3 was drilled right inside the garbage dump site to scissor the section with HT 1 drilled last year HT-3 drilled mainly within well developed exoskarn zones with local granodiorite dikes Mineralizations occur as scattered small intervals of skarn and/or altered granodiorite with disseminated chalcopyrite bornite and local molybdenite The best sample in this hole assayed 1 99% Cu and 695 ppb Au and 17 8 ppm Ag from a small felsic dikelet No significant zones were intersected in HT 3

(see Table 2 for drill log and Figure-4 to Figure 7 for sections)

HT – 4 was drilled at right angle to the HT-1 and 3 section and went through the section at 75 ft above the mineralization zone intersected in HT 1 Only 9 6 ft similar style skarn mineralization was intersected averaging 3 12% Cu 359 ppb Au and 13 8 ppm Ag It seems the zone is pinching out on this direction

(see Table-3 for drill log and Figure-4 to Figure-7 for sections)

HT – 5 was drilled in the northwest on Line 132N / 16+50W to test the IP chargeability anomaly The entire hole is in granodiorite The intrusive is scattered with fine quartz-(calcite) chalcopyrite (bornite) veinlets mostly less than a centimeter thick with associated disseminated chalcopyrite halos The veining is better developed from about 300 ft down hole to about 560 ft Normally 2-3 veinlets per five feet to local 2-3 veinlets per foot Anomalous copper values all way through with local elevated gold values The best copper mineralization is from 326 to 330 5 ft assayed 1 02% Cu 560 ppb Au and 11 2 ppm Ag The best gold values of 1 76 g/t Au came from 478 8 to 482 ft where three quartz-chalcopyrite-bornite veinlets were found together with a few fine chalcopyrite stringers This sample also has 0 54% Cu and 4 4 ppm Ag

(see Table-4 for drill log and Figure 8 9 for sections)

A total of 70 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 and four acid total digestion for copper (%) followed by standard nitric aqua regia digestion for 32 element ICP scan Analytical assay certificates are attached in Appendix 1

2001 HAT Property Diamond Drill Log HT 3			Hole #	HT 3					
Date Started	May 25 2001		Date Finished	May 31 2001		Final Depth	710 ft		
Grid Location	110+00N / 1+00E		Inclination	45		Azimuth	002		
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 27 claim about 1000 feet SW of HAT 27 #1 post								
Note	Initial drilling stuck at 180 ft re drill from the same casing re drill cores are kept and logged from 152.5 ft down								
Samples	322501 322527								
Footage									
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
0 0	20 0	20 0		Overburden					
20 0	23 5	3 5		Skarnified Diorite Dike light grey to pink medium to coarse grained massive white feldspar 0.5 to 2mm phenocrysts and disseminated chloritized mafic blebs minor Gar and Ep near top and low ends Trace disseminated fine grained Py Lower contact at about 40 CA					
23 5	39 8	16 3		Marble / Garnet Skarn light grey and brown medium to coarse grained mostly marble with 10-20% garnet skarn patches Trace disseminated Py					
39 8	46 5	6 7		Skarnified Siltstone Purple to grey fine grained weakly banded local cherty and pyritic with 1-2% disseminated and stringer fine grained Py and Po weakly magnetic 20% Diop Gar bands @ 35-50 CA					
44 0	46 5	2 5	322501	1-2% Py and Po	<5	<0.01	<0.2	7	<2
46 5	53 5	7 0		Marble / Garnet Skarn light grey and brown medium to coarse grained massive with scattered Gar patches trace Py Lower contact @ 40 CA					
53 5	74 0	20 5		Skarnified Sandstone / Siltstone Purple and greenish grey fine and fine to medium grained some ghostly local banding recognizable mostly altered to Diop Ep skarn local 1-2% disseminated and stringer Py minor Po					
56 5	60 0	3 5	322502	2% Py and Po	<5	<0.01	0.2	12	4
74 0	82 5	8 5		Marble and Garnet Skarn Light grey and brown coarse grained massive fairly pure marble mostly but top and low ends 20 cm rich with Gar local porus Lower contact 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)							
82 5	93 5	11 0		Feldspar Porphyritic Dike Medium purplish grey fine to coarse grained porphyritic white feldspar phenocrysts from 0 5mm to 2 3 mm in purplish brown Gar(feldspar?) matrix 1% sulphides mostly Py and Po disseminated and local as fracture filling veinlets weak to local moderately magnetic Lower contact sharp and irregular at about 25 30 CA					
89 8	93 5	3 7	322503	1 2% Py and Po	<5	<0 01	<0 2	7	<2
93 5	108 7	15 2		Skarnified Pyritic Siltstone moderate greyish purple fine grained massive to locally weakly banded with pervasive fine grained Gar weakly magnetic with 1 2% disseminated very fine grained Py and Po Lower end 2 feet has more Diop Lower contact irregular					
108 7	121 6	12 9		Garnet Skarn brown to light brown coarse grained Gar local minor Diop Trem and Wol Trace fracture filling Py Lower contact sharp and irregular at about 30 CA					
121 6	152 5	30 9		Marble light grey medium to coarse grained fairly pure massive to local well banded @ 40 CA Lower contact sharp @ 50 CA (note initial drilling stuck at 180 feet and re drilled from the same casing at the same inclination but from 100 feet down the hole deviated into a complete new hole this marble horizon is used as a marker from next interval this log goes into the re drill core)					
152 5	155 8	3 3		Garnet Skarn and Diopside Skarn brown and light greenish grey fine to coarse grained upper half Gar dominant while the lower Diop dominant trace Ep brecciated trace to 1% Py and trace local Cpy Lower contact broken					
155 8	184 0	28 2		Skarnified Siltstone / Minor Garnet Skarn purplish grey greenish grey and brown fine grained skarnified siltstone intercalated with minor coarse grained garnet skarn lenses and patches local Diop Ep skarn weak to moderate bleaching patches and along fractures with trace to local 1 2% Py and Po trace Cpy At 163 ft is 0 5 foot with trace Mo blebs Several porphyritic dioritic dikelets are seen at 161 5 and 175 7 176 9 and 177 2					
155 8	160 0	4 2	322504	1 2% Py Po trace Cpy	25	0 17	1 2	34	6

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

Table 2

2001 HAT Property Diamond Drill Log HT 3

3 of 8

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
160 0	163 5	3 5	322505	Trace Py Po and Cpy trace Mo	30	0 10	0 6	31	<2
163 5	167 5	4 0	322506	Trace to 1% Py trace Cpy	20	0 15	0 8	25	4
176 9	180 0	3 1	322507	1% Py Po trace Cpy	20	0 49	3 4	69	2
180 0	184 0	4 0	322508	Trace to 1% Py trace Cpy	25	0 15	0 8	13	8
184 0	201 7	17 7		Garnet Skarn and Diopside Tremolite Skarn brown and greenish grey fine to coarse grained Gar skarn as massive lenses and patches scattered in Diop Trem skarn Top 4 inch moderately mineralized with disseminated and patches of Bor and minor Cpy Lower half more Diop skarn Lower contact irregular					
184 0	187 0	3 0	322509	1 2% Bor and Cpy	590	1 70	17 4	92	8
201 7	226 3	24 6		Skarnified Siltstone and Sandstone purple to purplish grey fine to medium grained mostly massive local foliated @ 25 45 CA Minor bleaching alteration halos near fractures Ep common trace to 1% disseminated and fracture filling fine grained Py and Po 213 8 216 5 is porous Gar skarn lens and 218 219 5 is a skarnified granodiorite dike Lower contact irregular alteration contact					
226 3	267 2	40 9		Garnet Skarn / Trem Diop Skarn and Wol Skarn brown and light greenish grey Gar as massive lenses and patches scattered in Diop Trem skarn local minor Wol skarn Pink feldspar alteration near top 231 5 234 is a feldspar porphyritic dike with broken contacts at 238 is a 0 5 ft Gar Wol skarn lens with 5 7% disseminated Mo blebs and patches 242 243 2 is Trem Diop skarn with 2 3% Bor disseminated along some wispy bands and minor Mo patches Lower contact @ 40 CA					
237 8	240 0	2 2	322510	1 2% Mo	<5	<0 01	0 8	>10 000	14
240 0	243 2	3 2	322511	1% Bor trace Cpy and Mo	<5	0 14	1 6	324	4
267 2	275 9	8 7		Skarnified Siltstone and Sandstone purple fine grained local medium grained well foliated to banded at 25 to 40 CA local cherty appearance weakly magnetic Trace to 1% disseminated very fine grained Po Py Lower contact irregular alteration contact					

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)							
275 9	304 0	28 1		Garnet Skarn and Diopside and Tremolite Skarn light brown and light green to light grey Gar skarn is coarse grained and intercalated with fine to medium grained Diop Trem skarn lenses and patches local Wol Gar skarn disseminated Mo blebs common local trace Py and Cpy 298 5 300 is skarnified siltstone					
304 0	322 7	18 7		Diopside Tremolite Skarn light green fine grained local skarnified siltstone recognizable intercalated with about 20% irregular Gar Diop skarn lenses trace to 1% disseminated and local fracture filling Py rare Cpy blebs Lower end 2 7 ft trace Mo and local 1% Cpy Lower contact sharp at 47 CA					
320 0	322 7	2 7	322512	trace to local 1% Cpy Py and Mo	30	0 09	0 6	462	6
322 7	326 9	4 2		Wollastonite Skarn and Diopside Skarn white and green and light greenish grey coarse grained massive with 2 3% disseminated Bor blebs and patches trace Cpy and Mo					
322 7	326 9	4 2	322513	see above	340	0 39	3 2	11	26
326 9	328 6	1 7		Diorite Dike medium greenish grey medium to coarse grained porphyritic with dark green mafic and white feldspar phenocrysts 1 2% Bor and Cpy mostly along fractures near lower end Upper contact @ 75 CA lower contact irregular					
326 9	328 6	1 7	322514	see above	10	0 01	<0 2	39	2
328 6	337 0	8 4		Tremolite Diopside Skarn / Skarnified Siltstone Sandstone medium greenish grey fine to local medium grained local dark brown to purple siltstone recognizable most altered to Diop Trem skarn minor local Gar 1 2% disseminated and along fracture Cpy and Bor Lower contact sharp at 77 CA					
328 6	332 7	4 1	322515	1 2% Bor and Cpy	150	0 39	2 6	108	20
332 7	335 3	2 6	322516	2% Cpy and Bor	200	0 68	5 2	55	32
337 0	338 1	1 1	322517	Felsic Dike light greenish grey to light pink coarse grained with 2% disseminated Bor trace to 0 5% Mo and trace Cpy Lower contact @ 75 CA	695	1 99	17 8	94	136

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 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)							
338 1	346 8	8 7		Garnet Skarn and Diopside Skarn light brown and light greenish grey fine to coarse grained local weakly banded minor Wol skarn Lower contact gradational					
346 8	350 0	3 2	322518	Skarnified Siltstone dark brown fine grained weakly banded with 2-3% disseminated and fracture fill Cpy stringers Lower contact irregular	70	0.80	1.6	171	6
350 0	359 3	9 3		Garnet Skarn and Diop Trem Skarn brown and light green fine to coarse grained irregular patches and bands of Gar in Diop skarn local trace to 1% Bor and Cpy along fractures Lower contact irregular					
353 0	355 8	2 8	322519	0.5 1% Cpy and Bor in Diop skarn	30	0.19	1.4	22	10
359 3	363 3	4 0		Skarnified Siltstone dark brown to purplish brown with light green patches fine grained local weakly foliated trace Py and Cpy					
363 3	375 0	11 7		Diopside Skarn and Garnet Skarn light green and brown fine grained and coarse grained local weakly foliated @ 35-40 CA 35% Gar skarn lenses Trace disseminated Mo and Cpy Lower end 1 ft has 1-2% Py Cpy					
375 0	391 0	16 0		Skarnified Siltstone / Sandstone and Feldspar Porphyry dark purplish brown to greenish brown fine to medium grained massive to local well foliated with biotitic foliations @ 30-40 CA There are 5 feldspar porphyritic dikelets in this interval from 1 inch to 1 foot thick at 30-40 CA some with trace disseminated Cpy and Mo Lower contact irregular					
381 8	385 8	4 0	322520	35% feldspar dikelets trace disseminated Cpy and Mo	10	0.09	0.4	275	4
391 0	419 3	28 3		Diopside Tremolite Skarn light greenish grey fine grained massive to local foliated @ 30-50 CA local purplish brown skarnified siltstone recognizable 403-406 4 is a Gar skarn lens 406 4-411 4 has 60% feldspar porphyry dike at very low core angle with trace to 1% disseminated Cpy and Mo From 411 4 ft down about 1% Cpy mostly as fracture filling veinlets up to a couple mm thick trace Bor and Mo					
409 0	411 4	2 4	322521	60% feldspar porphyry trace disseminated Cpy and Mo	320	0.27	3.4	422	32

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 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)							
411 4	414 0	2 6	322522	Diop skarn minor Gar skarn trace disseminated and veinlet Cpy trace Mo	520	0 62	4 2	55	36
414 0	416 5	2 5	322523	Diop skarn and skarnified slitstone with 1% Cpy veinlets	30	0 37	0 6	63	10
419 3	441 7	22 4		Garnet Skarn and Tremolite Skarn light brown to whitish brown coarse grained massive to weakly foliated @ 40 CA moderately porous There is 2 inch Ep band at 424 ft Minor fracture filling Bor and Cpy from 423 6 426 3 ft trace local Mo blebs Lower contact sharp @ 70 75 CA					
423 6	426 3	2 7	322524	trace to 1% Bor and Cpy	50	0 37	3	6	22
441 7	464 5	22 8		Skarnified Granodiorite / Granodiorite from 441 7 449 ft is skarnified granodiorite light greenish grey medium to coarse grained massive with minor disseminated Gar Mo blebs common From 449 464 5 ft is Granodiorite light grey medium to coarse grained local weakly altered (mostly Ep) Dark grey mafic inclusions and purple siltstone inclusions common Lower contact broken at about 40 CA					
464 5	476 7	12 2		Garnet Tremolite Skarn light brown and white medium to coarse grained lower half minor fine grained Diop skarn lower end 0 5 ft with 2% disseminated and veinlet Bor minor Cpy Lower contact @ 25 30 CA					
474 7	476 7	2 0	322525	see above	220	0 77	6 6	11	62
476 7	489 0	12 3		Diopside Skarn light greenish grey fine to coarse grained with minor mixed patches and lenses of Gar skarn Ep common Local minor fracture filling Cpy near 480 ft and Cpy Mo near 486 3 ft Lower contact sharp @ 50 CA					
489 0	521 1	32 1		Skarnified Arkosic Sandstone / Siltstone dark grey greenish grey to brownish grey fine to coarse grained mostly massive local well banded with biotitic bands and feldspathic bands at 25 to 30 CA Minor Gar skarn at top A few small granitic dikelets Local weakly to moderately magnetic by very fine grained Po and magnetite Trace fracture fill Cpy veinlets at 493 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			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
521 1	540 5	19 4		Granodiorite Dike light grey medium to coarse grained massive weakly skarnified pink K spar altered at both up and low ends and a couple of pink feldspar dikelets (2 inch and 4 inch) at 75 to 80 CA Lower contact @ 35 CA					
540 5	566 4	25 9		Skarnified Siltstone and Sandstone medium grey to brownish grey fine grained mostly local medium grained foliated to banded with biotitic foliations at 30 35 CA wispy bands common Weak to moderately magnetic by very fine grained Po and magnetite At 55 ft is an 8 inch granodioritic dikelet at 45 CA Lower contact sharp @ 60 CA					
566 4	570 7	4 3		Granodiorite Dike light grey medium to coarse grained massive chloritized mafic dark grey fine grained mafic inclusions common lower contact sharp @ 20 CA					
570 7	603 6	32 9		Skarnified Siltstone and Sandstone medium brown to greenish brown fine grained local medium grained foliated to banded with biotitic foliations @ 40 CA skarnification mostly weakly developed along fractures less as irregular patches Local trace sulphides Lower contact gradational					
603 6	639 2	35 6		Diop Skarn / Siltstone / Granitic Dikes this is a mixed interval of mostly skarnified sedimentary rocks intruded by some 20 dikelets (40% of interval) The dikelets are from 1 cm to 0 5m thick mostly at 30 60 CA two major types the early granodioritic and the later pinkish granitic compositions with occasional specks of Cpy Lower 1/3 of interval has a few Cpy veinlets of few mm scale as fracture fill in both sediments and dikes Lower contact sharp @ 40 45 CA					
635	638 6	3 6	322526	40% dike rest sediments 1% disseminated and veinlets Cpy	15	0 36	0 2	19	10
639 2	657 1	17 9		Granodiorite Dike / Siltstone light grey to light pinkish grey medium to coarse grained massive 20 30% chloritized mafic s local weakly magnetic Trace local Cpy blebs Upper half with 4 siltstone lenses 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			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
657 1	661 3	4 2		Siltstone / Sandstone medium grey fine to medium grained weakly foliated with irregular halo and patches and bands of light grey feldspathic assimilation by granodiorite local gneissic appearance Lower contact sharp @ 50 CA					
661 3	686 9	25 6		Leuco Granodiorite light grey medium to coarse grained massive less mafic (10%) than above weakly magnetic pinkish ringer dikelets common In the upper portion there are 4 upto 1 cm Cpy and Cpy Bor fracture fill veinlets and minor disseminated halos veinlets @ 50 CA Lower contact sharp @ 70 CA					
664 5	668 3	3 8	322527	1 2% Bor and Cpy see above	225	1 84	22 4	31	108
686 9	710 0	23 1		Sandstone / Siltstone dark grey to brownish grey fine to					
710 0				E O H					

2001 HAT Property Diamond Drill Log HT 4				Hole #	HT 4					
Date Started		May 31 2001		Date Finished	June 05 2001			Final Depth	633 feet	
Grid location		111+35N / 1+00W		Inclination	52			Azimuth	90	
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 27 claim about 900 feet southwest of HAT 27 #1 post								
Samples		322528 322547								
Footage										
From (ft)	To (ft)	Width (ft)	Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm	
0 0	13 0	13 0		Overburden						
13 0	33 0	20 0		GARNET SKARN AND DIOPSIDE SKARN light brown and light green medium to coarse grained Gar skarn intercalated with fine to medium grained Diop skarn local trace Cpy more Diop skarn in lower half Broken ground 3 drill bits lost						
33 0	58 0	25 0		MARBLE AND GARNET SKARN light to medium grey marble intercalated with 35% Gar skarn lenses and patches medium to coarse grained minor local Diop skarn Marble is locally weakly foliated @ 35 45 CA Contacts between marble and Gar skarn lenses are sharp and range from 20 to 40 CA and some are irregular Trace local Py Lower contact broken but seems gradational						
58 0	63 0	5 0	322528	DIOPSIDE SKARN light to medium green fine to medium grained weakly fractured and healed by fine Ep Py veinlets weakly pyritic with 1 2% disseminated fine grained Py Lower contact gradational	70	0 26	1 2	44	16	
63 0	79 3	16 3		SKARNIFIED SILTSTONE light purplish grey fine grained weakly pyritic with disseminated very fine grained Py 1 2% moderately fractured and healed by siliceous to local pyritic veinlets trace Cpy Lower contact gradational						

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
79 3	117 7	38 4		DIOPSIDE SKARN / SKARNIFIED SILTSTONE light greenish grey fine to medium grained well developed Diop skarn with minor local purplish fine grained skarnified siltstone lenses and patches minor local Gar Most of the skarn portion is pyritic with 1 2% disseminated very fine grained Py local pyritic bands and fractures Lower contact sharp and irregular at low CA					
117 7	131 8	14 1		GAR SKARN / MARBLE AND TREM DIOP SKARN brown light grey and light green medium to coarse grained Gar skarn at top and bottom with a marble lens (121 7 123 8) and a Trem Diop skarn lens (123 8 129 5) in the middle Contacts are sharp from 30 to 40 CA The marble is moderately foliated at 20 30 CA One ft above lower end has a couple inches of kaolinic fault gouge Lower contact sharp @ 20 30 CA					
131 8	162 1	30 3		SKARNIFIED ARGILLITE / SILTSTONE purplish grey to greenish grey very fine grained weak to moderately fractured local pyritic Diop skarn developed around fractures and as patches At 144 5 ft about 1% disseminated Mo blebs Local weakly magnetic due to Po Trace local Cpy 158 159 ft is a Qz healed breccia vein @ 25 30 CA with minor Py Lower contact gradational into coarser grained arkosic sediments					
143 0	146 0	3 0	322529	Diop skarn 1% Py trace Cpy and Mo	15	0 11	0 2	337	10
162 1	166 7	4 6		SKARNIFIED ARKOSIC SANDSTONE pbrownish purple medium grained massive to local weakly foliated @ 25 CA feldspathic included a 1 5 ft Diop skarn lens with disseminated Mo blebs Lower contact gradational due to assimilation					
166 7	177 0	10 3		GRANODIORITE light greenish grey medium to coarse grained massive granular 20 30% chloritized mafic s 2 3% disseminated fine grained Py local trace Cpy Lower					
173 5	177 0	3 5	322530	see above	<5	0 04	<0 2	15	10
177 0	180 8	3 8		GARNET SKARN medium brown to greenish brown coarse grained minor Diop lower contact sharp @ 30 CA					

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
180 8	183 5	2 7	322531	GRANODIORITE similar to that of 166 7 177 ft but with more chloritized mafic minor irregular skarn inclusions 2-3% Py minor Po trace local Cpy Lower contact sharp @ 65 CA	15	0 05	<0 2	26	20
183 5	199 4	15 9		DIOPSIDE SKARN light to medium green fine grained with minor Gar skarn patches and lenses disseminated Mo common (esp in upper 4 ft) trace Cpy and trace Bor near lower end Lower contact irregular					
183 5	187 5	4 0	322532	1-2% disseminated Mo blebs and trace Cpy	<5	0 01	<0 2	499	16
199 4	225 0	25 6		GARNET SKARN light brown to greenish brown medium to coarse grained minor Wol skarn near top intercalated with some light green Diop skarn lenses in lower portion Minor fine fracture filling dolomite veinlets Lower contact sharp @ about 10 20 CA					
225 0	234 4	9 4		DIOPSIDE SKARN light green fine grained with Gar patches and feldspathic patches weakly pyritic up to 1% local disseminated fine grained Py Lower contact gradational					
234 4	267 4	33 0		SKARNIFIED SILTSTONE purplish grey to greenish purple fine grained lower portion moderately fractured with skarnification halos around fractures Local 1-2% fine grained Py very trace Cpy Local silicified Lower contact sharp at about 50 CA					
267 4	275 2	7 8		GARNET SKARN light brown fine to coarse grained minor Trem and Wol Lower contact sharp but irregular					
275 2	291 0	15 8		DIOPSIDE SKARN light green to greenish grey fine to medium grained with various shaped to sub rounded bleached feldspathic and tremolitic patches minor Ep local weakly pyritic with about 1% disseminated very fine grained Py At 278 5 ft is a 0 5 ft banded Dol Cal Qz vein at 42 CA Lower contact gradational within short distance					

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
291 0	332 6	41 6		SKARNEFIED SILTSTONE purple to greenish purple fine grained weak to local moderately fractured with various shaped light green patches of skarnification local pyritic with 1 2% disseminated and fracture fill Py minor Po very trace Cpy Lower contact sharp @ 65 CA At 322 5 ft is 3 inch Qz feldspar porphyritic dikelet with some graphic texture its contacts are 22 CA					
332 6	338 7	6 1		GRANODIORITE DIKE light pinkish to greenish grey coarse grained massive with chloritized mafic s K spar altered near lower end is a 6 inch skarnified siltstone inclusion with about 1% disseminated fine grained Py and trace Cpy Lower contact sharp @ 60 CA					
338 7	366 7	28 0		SKARNIFIED SILTSTONE / ARGILLITE AND DIOP SKARN mixed purple fine grained siltstone / argillite and light green medium grained Diop skarn lenses and patches (about 50%) moderately fractured pyritic up to 3% disseminated and fracture fill Py local minor Cpy mostly along fractures Rich Mo from 359 to 361 7 ft Lower contact sharp irregular					
341 5	344 0	2 5	322533	342 343 5 is a Gar skarn lens rest are Diop skarn siltstone 1% Py and trace to 0 5% Cpy	10	0 09	0 6	264	28
344 0	348 0	4 0	322534	80% Diop skarn 2 3% disseminated and fracture fill Py trace to 0 5% Cpy	<5	0 11	0 2	35	22
356 0	359 0	3 0	322535	Skarnified siltstone 2 3% disseminated and fracture fill Py trace to 0 5% Cpy	25	0 25	0 8	23	12
359 0	361 7	2 7	322536	Diop skarn 2 3% Disseminated Mo 0 5 1% Cpy	285	0 61	3 0	8070	58
361 7	366 7	5 0	322537	Skarnified siltstone 2 3% disseminated and fracture fill Py 1% Cpy	40	0 45	0 8	99	16
366 7	378 0	11 3		GARNET SKARN light brown coarse grained some well zoned euhedral Gar crystals lower portion has trace disseminated Cpy and Bor blebs to 1 2% at lower end 0 5 ft Lower contact sharp @ 46 CA					
374 2	378 0	3 8	322538	0 5% Cpy and 0 5% Bor	65	0 31	1 4	14	20

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
378 0	387 6	9 6		MINERALIZED GARNET SKARN light brown greenish brown and purplish brown coarse grained 80% massive Gar skarn minor Diop as matrix surrounding mega cristic Gar Local irregular Qz patches Heavily mineralized with 5 7% Bor 3 4% Cpy and trace Cc local Bor up to 25 30% in 0 5 ft interval as matrix enveloping Gar crystals 382 2 384 5 ft included a 1 cm thick Cal Dol (Qz) Jasper Cpy vein at very low CA (about 5 degrees) more Cpy near the vein The lower contact of this mineralized portion is sharp and clean @ 55 CA with next fairly pure marble (limestone)					
378 0	383 0	5 0	322539	8 10% Bor 3 4% Cpy trace Cc and Mo	450	4 14	20 6	6	238
383 0	387 6	4 6	322540	3 4% Bor 2 3% Cpy trace Cc and Mo	260	2 03	6 4	6	128
387 6	419 4	31 8		MARBLE (LIMESTONE) light grey medium to coarse grained massive to weakly foliated @ 23 CA fairly pure and clean marble with only occasional Cc fine veinlets near top and a 0 5 ft Gar skarn near lower end with minor Cc as hairline fracture fillings Lower contact @ 45 CA with disseminated patches of Bor Cpy and Cc					
387 6	390 6	3 0	322541	Marble with trace fine fracture fill Cc veinlets	<5	0 03	<0 2	2	<2
418 0	421 0	3 0	322542	Sample crossed geological boundary 50% Marble 50% granodiorite 1% disseminated and veinlets Bor Cpy and Cc on both side near the contact	115	0 49	2 4	14	28
419 4	430 2	10 8		GRANODIORITE light to medium greenish grey massive to local weakly foliated local bleached and moderately fractured 30 40% chloritized mafic minor local magnetite esp in more mafic portion Several Qz veinlets of mm scale at low core angles with Bor Cpy and trace Mo and associated disseminated Bor Cpy halos Over all 0 5 1% Lower contact sharp and irregular at about 75 80 CA					
421 0	426 0	5 0	322543	0 5 1% Bor and Cpy minor magnetite trace Mo	125	0 29	1 8	99	32
426 0	430 2	4 2	322544	50% bleached 0 5% Bor and Cpy	95	0 19	1 8	44	30

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)							
430 2	438 9	8 7		GARNET SKARN / MARBLE brown coarse grained Gar skarn at top with trace disseminated Bor and Cpy minor Trem skarn local thin light grey to white marble lenses lower half with 30% irregular granodiorite dikelets associated with 1% disseminated and fracture fill Py Lower contact sharp and irregular at about 50 CA					
438 9	481 6	42 7		GRANODIORITE medium grey medium to coarse grained weakly fractured minor dark grey fine grained sedimentary inclusions near top and bottom intruded by a few pink feldspar porphyritic dikelets up to one foot at 25 to 35 CA Trace to 1% disseminated Py and Po minor magnetite Lower end 2 ft skarnified porous Lower contact @ 50 CA					
481 6	494 4	12 8		SKARNIFIED SILTSTONE purple and light green fine grained foliated and banded @ 40 CA local quite biotitic with brown biotite Skarnification along fractures and as patches Ep common trace to local 1% fracture fill and disseminated fine grained Py Lower contact irregular					
492 8	495 1	2 3	322545	Sample crossed geological boundary 60% skarnified siltstone with 1 2% disseminated Py and fracture fill Cpy trace Bor 40% pink skarnified granodiorite with 1 2% disseminated Bor in the first 6 inches	35	0 27	0 8	18	10
494 4	503 9	9 5		SKARNIFIED GRANITIC DIKE light pinkish grey medium to coarse grained massive pink K spar altered minor Qz about 5% dark chloritized mafic mineral blebs minor biotite Lower contact sharp @ 80 CA					
503 9	525 7	21 8		SKARNIFIED SILTSTONE purple and light green fine grained mostly massive to local weakly banded @ 35 40 CA local fine grained biotitic bands irregular patches and lenses of Skarnification where associated with 1 2% disseminated fine grained Py There are a few small dioritic dikelets Lower contact sharp but irregular alteration contact					

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
525 7	539 0	13 3		GARNET SKARN AND DIOPSIDE SKARN light brown and light green medium to coarse grained Gar skarn intercalated with fine to medium grained Diop skarn Top 1 ft included an irregular Cpy patch and 0.5% disseminated Bor Trace Cpy near lower end Lower contact gradational					
539 0	551 8	12 8		SKARNIFIED SILTSTONE AND DIOPSIDE SKARN purple and green fine grained weakly foliated pyritic local 3-5% disseminated Py Diop and Ep skarn patches and lenses common local trace Cpy and Mo There are five granodioritic dikelets ranging from 20 to 60 CA and one Qz feldspar dikelet at 35 CA Lower contact sharp @ 30 CA					
537 0	540 0	3 0	322546	Sample crossed geological boundary 1% disseminated fine grained Py trace Cpy and Mo	<5	0.12	0.2	7	8
548 8	551 8	3 0	322547	Skarnified pyritic siltstone with 15% granodioritic dikelets 3-5% disseminated Py	<5	0.06	<0.2	28	8
551 8	567 8	16 0		ALTERED GRANODIORITE light grey to light pinkish grey medium to coarse grained weakly fractured pink K spar altered with minor Qz and Qz Feldspar veinlets local trace magnetite minor secondary brown biotite Lower contact sharp @ 65 CA					
567 8	569 2	1 4		MARBLE light grey to white medium to coarse grained weakly foliated @ 37 CA with minor dark grey carbonaceous bands Lower contact sharp irregular at about 80 CA					
569 2	575 0	5 8		TREM GAR DIOP SKARN whitish grey brown and light green medium to coarse grained patchy to spotted Gar in Trem and Diop skarn local some hard rosy pink Qz (rhodonit?) patches Lower contact irregular					
575 0	590 7	15 7		MARBLE light grey to white coarse grained massive to weakly foliated @ 30 CA with minor dolomitic portions Lower contact sharp at about 45 CA					
590 7	595 8	5 1		WOLLASTONITE DIOPSIDE SKARN light green to white coarse grained massive to weakly foliated @ 45 CA prismatic Wol in Diop skarn lower end minor Gar bands Lower contact sharp @ 45 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)							
595 8	604 4	8 6		GARNET SKARN brown coarse grained massive more than 90% Gar minor fracture filling dolomite and dolomite Qz veinlets and patches lower contact sharp @ 65 CA					
604 4	625 0	20 6		GRANODIORITE medium to dark grey medium to coarse grained gneissic appearance contain some small intervals of various grain sized and various mafic contents inclusions (or dikes?) intruded by a few light pink granitic dikes Local trace to 1% disseminated and fracture fill Py Lower contact broken at about 50 CA					
625 0	629 2	4 2		BASALTIC DIKE dark green fine grained chloritic minor darker green mafic phenocrysts lower end 1 ft fractured with 20% Qz vein patches Lower contact sharp @ 47 CA decomposed with minor fault gouge					
629 2	633 0	3 8		GRANODIORITE medium grey medium grained gneissic appearance lower portion contains fair amount of brown biotite Trace disseminated Py					
633 0				EOH					

2001 HAT Property Diamond Drill Log HT 5				Hole #	HT 5						
Date Started	June 06 2001			Date Finished	June 11 2001		Final Depth	662 feet			
Grid location	L132+00N / 16+50W			Inclination	48		Azimuth	270			
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 23 claim about 1100 feet southeast of HAT 23 #2 post and about 50 ft off the Whitehorse Traverse Line										
Samples	322548 322570										
Footage											
From (ft)	To (ft)	Width (ft)	Sample #	Description			Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
0 0	37 0	37 0		Overburden glacial deposits							
37 0	92 8	55 8		GRANODIORITE medium grey to light greenish grey medium to coarse grained massive granular to local weak to moderately fractured chloritized mafic 25 40% minor secondary dark brown biotite weakly to local moderately magnetic Fairly homogeneous but with some Ep alteration patches and along fractures minor bleached silicious fractures normally associated with disseminated halos of Cpy local Bor and Mal stain from 50 to 58 3 ft Cpy nearly 1% Lower contact sharp @ 40CA							
50 0	52 5	2 5	322548	1% disseminated Cpy in and near bleached fractures			<5	0 16	<0 2	7	10
52 5	55 0	2 5	322549	0 5% disseminated Cpy			20	0 20	0 2	1	2
55 0	58 3	3 3	322550	1 1 5% disseminated Cpy			65	0 29	0 6	6	26
67 2	72 0	4 8	322551	1% Cpy Mal minor Cup along fractures			30	0 14	0 4	3	14
92 8	94 0	1 2		MAFIC DIKE dark green fine grained chloritic minor disseminated light grey to white carbonate blebs weakly calcareous Lower contact sharp @ 48 CA							
94 0	101 7	7 7		GRANODIORITE same as 37 92 8 ft Lower contact sharp @ 53 CA							
94 0	99 0	5 0	322552	trace to 1% Cpy and trace Mal along fractures			20	0 15	<0 2	3	8
101 7	103 1	1 4		MAFIC DIKE same as 92 8 94 ft Lower contact sharp @ 45 CA							
103 1	110 0	6 9		GRANODIORITE same as 37 92 8 ft but 20 30% are Ep altered patches and along fractures at low core angles Lower contact sharp but broken at about 60 CA							
110 0	110 8	0 8		MAFIC DIKE same as 92 8 94 ft Lower contact sharp but broken at about 75 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)							
110 8	121 0	10 2		GRANODIORITE same as 37 92 8 ft From 115 to 123 ft is a fault zone well fractured and some decomposed granodiorite with minor local fault gouge Lower contact broken					
121 0	124 4	3 4		MAFIC DIKE similar to that of 92 8 94 ft upper half well fractured in fault zone 3 5% fracture filling calcite veinlets Chlorite Ep altered (propylitic alteration) Lower contact sharp @ 42 CA					
124 4	158 6	34 2		GRANODIORITE same as 37 92 8 ft top 2 ft skarnified with minor Gar and Qz veinlets over all only occasional disseminated Cpy lower contact sharp @ 40 CA					
158 6	162 2	3 6		MAFIC DIKE similar to that of 92 8 m 94 ft lower contact sharp @ 40 CA					
162 2	220 4	58 2		GRANODIORITE same as 37 92 8 ft trace sulphides occasional Cpy lower contact 0 5 ft weakly silicified contact sharp @ 42 CA					
220 4	230 8	10 4		LAMPROPHYRE DIKE dark grey greenish grey to brown medium to coarse grained massive biotitic chlorite altered weakly calcareous moderately magnetic minor Hem stained dark pinkish red feldspars Lower contact sharp at about 90 CA					
230 8	240 3	9 5		GRANODIORITE same as 37 92 8 ft but weakly mineralized with 0 5 1% disseminated Cpy near bleached silicious fractures (mostly @ 60 75 CA)					
230 8	234 0	3 2	322553	0 5% Cpy	15	0 06	<0 2	1	8
234 0	237 3	3 3	322554	1% Cpy	15	0 11	<0 2	6	8
237 3	240 3	3 0	322555	<0 5% Cpy	<5	0 11	<0 2	69	8
240 3	242 5	2 2		MAFIC DIKE same as 92 8 94 ft upper contact @ 40 CA lower contact @ 55 CA					
242 5	272 3	29 8		GRANODIORITE same as 37 92 8 ft disseminated Cpy common in upper half but over all less than 0 5% At 244 9 ft is a 0 5 cm Bor Cpy Qz veinlet @ 40 CA with 0 5 ft disseminated Cpy halo Lower contact sharp @ 40 CA					
242 5	246 5	4 0	322556	1% Cpy trace Bor	35	0 17	2 0	56	20
272 3	275 0	2 7		MAFIC DIKE same as 92 8 94 ft lower contact sharp @ 36 CA					

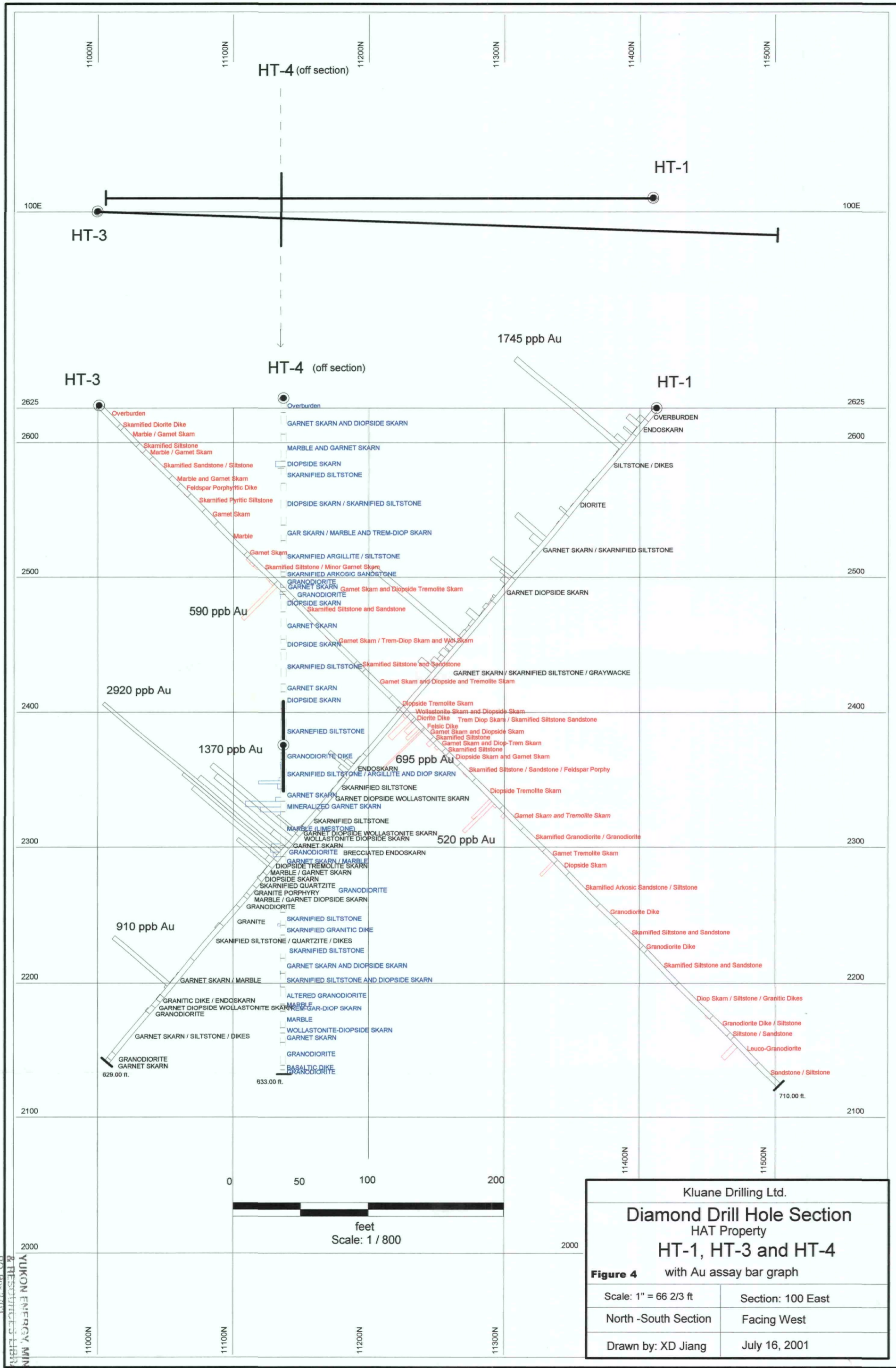
Bor bornite Cc chalcocite Cpy chalcopyrite Mal malachite Mo molybdenite Po pyrrhotite Py pyrite
 Cal calcite Diop diopside Ep epidote Gar garnet Qz quartz Trem tremolite Wol wollastonite CA = (degrees to) core axis

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
275 0	326 0	51 0		GRANODIORITE same as 37 92 8 ft weakly mineralized with Cpy and local Cpy Bor veinlets and associated disseminated Cpy halos Cpy up to 1% At 285 ft there are two Bor Cpy veinlets @ 20 25 CA Lower contact gradational					
298 2	301 0	2 8	322557	1 1 5% Cpy veinlets and disseminated Cpy trace Mo	10	0 29	<0 2	13	6
305 6	309 0	3 4	322558	1 2% Cpy trace Bor Including 7 Cpy (Bor) Qz(or siliceous) veinlets of several mm mostly @ 55 60 CA	855	0 52	2 8	109	46
326 0	330 5	4 5	322559	MINERALIZED GRANODIORITE same as 37 92 8 ft but mineralized with about 30 veinlets mostly less than 0 5 cm except one 3 cm composed of siliceous material (Qz) Cpy (Bor) (Mo) nearly parallel at about 70 CA Over all about 2% Cpy 1% Bor and trace Mo	560	1 02	11 2	139	76
330 5	395 0	64 5		ALTERED GRANODIORITE similar to that of 37 92 8 ft but with 35 40% bleached and Ep altered patches and ghostly bands along fractures (most @ about 30 CA) occasional Qz Cpy veinlets and disseminated specks local some rusty fractures with trace Cup Mal and native copper Lower contact gradational					
340 5	343 0	2 5	322560	0 5% Cpy trace Mal and Cup	65	0 29	1 4	5	18
395 0	428 5	33 5		WEAKLY MINERALIZED GRANODIORITE similar to that of 37 92 8 ft but with more Ep altered bleached patches and more Qz Cpy veinlets on average about 2 3 veinlets per five feet local 2 3 veinlets per foot the veinlets are mostly few mm thick some 1 3 cm thick arranging from 35 70 CA normally associated with disseminated Cpy halos Also minor calcite veinlets and chloritic fractures Some of the Qz veinlets seems to be chalcedonic easier to scratch with a carbide scratcher Also found in one small vug are some white to clear adularia (?)					
404 1	406 8	2 7	322561	Including a 2 cm and a 1 cm Qz Cpy and a 2 mm Cal Cpy veinlets 1 1 5% Cpy trace Bor and Mo	20	0 26	0 2	6	8
416 9	420 4	3 5	322562	Including two fine Ep Cpy stringers two Qz Cpy (Mo) and one Mo Cpy veinlets 0 5 1% Cpy trace Mo	20	0 22	<0 2	173	4
424 0	426 0	2 0	322563	Including five fine Cpy stringers in the middle one Qz Cpy veinlet (1 cm) and disseminated Cpy halos 2 3% Cpy	25	0 52	0 2	4	6

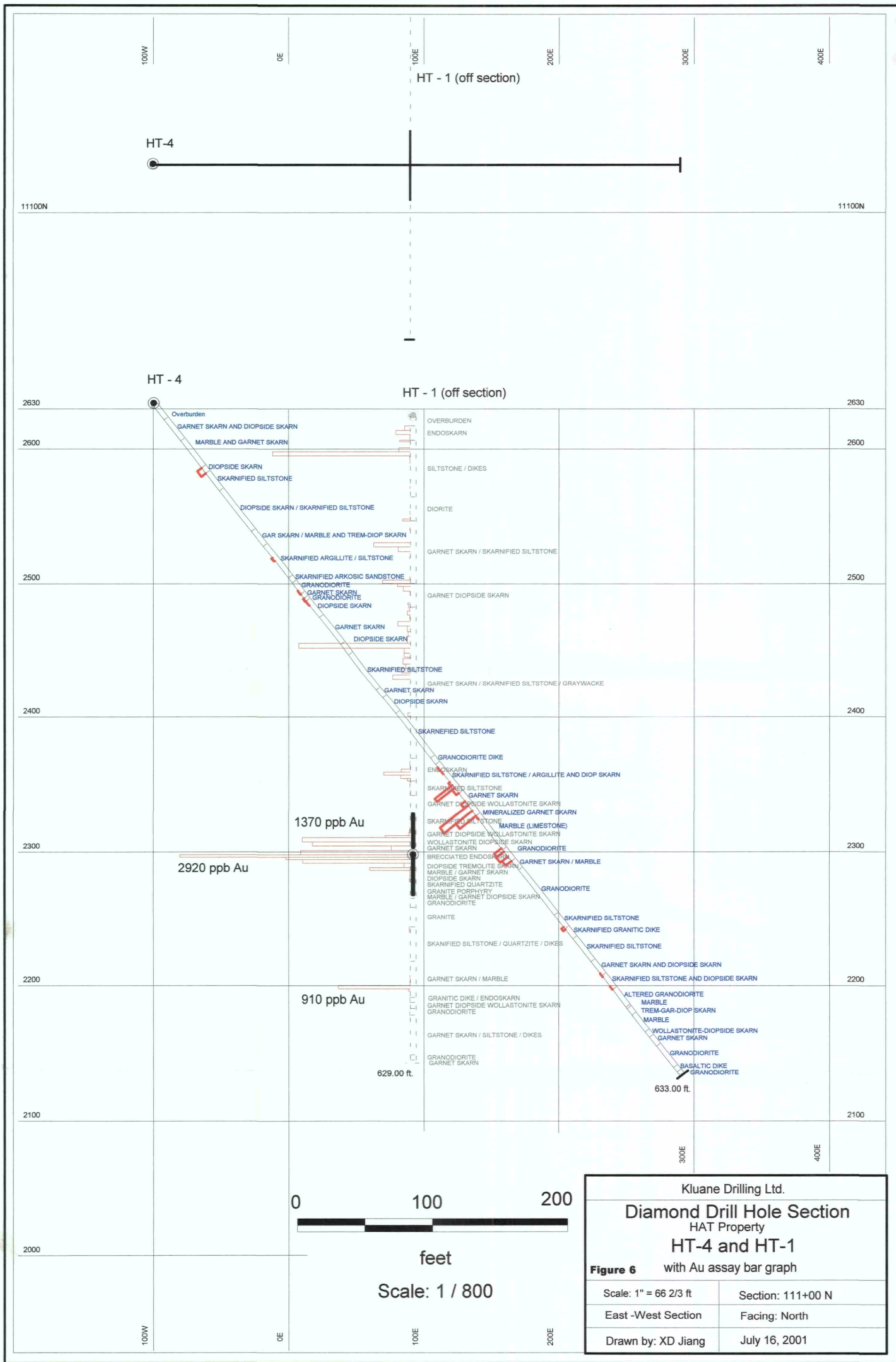
Bor bornite Cc chalcocite Cpy chalcopyrite Mal malachite Mo molybdenite Po pyrrhotite Py pyrite
 Cal calcite Diop diopside Ep epidote Gar garnet Qz quartz Trem tremolite Wol wollastonite CA = (degrees to) core axis

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
428 5	467 0	38 5		WELL FRACTURED CHLORITIZED GRANODIORITE medium to dark green local bleached well fractured with fine chloritic (calcitic) fillings local moderately calcareous Occasional					
445 0	449 5	4 5	322564	Trace disseminated Cpy	25	0 28	0 6	5	10
467 0	564 0	97 0		WEAKLY MINERALIZED GRANODIORITE similar to that of 395 428 5 ft but the Qz Cpy veinlets are bigger (thicker) normally in cm scale including a 8 cm one and the Cpy content is higher some with Bor and Cc (at 547) the veining intensity on average about 3 4 veinlets per five feet to about one veinlet per foot locally Lower contact gradational					
478 8	482 0	3 2	322565	Including 3 Qz Cpy Bor veinlets @ 40 45 CA and a few fine Cpy stringers some Ep Chl fractures but few with Cpy specks Over all Cpy 1 1 5% trace Bor and Mo	1760	0 54	4 4	14	74
488 8	492 3	3 5	322566	Including 5 Qz Cpy (Bor) veinlets minor silicification over all 2 3% Cpy trace Bor and Mo	70	0 69	0 8	18	32
505 4	508 6	3 2	322567	One 8 cm Qz Cpy Bor Mo vein @ 55 CA with 5 7% sulphides in it A few fine Qz Cpy and one Cal Cpy veinlets over all 2% Cpy Bor and trace Mo	145	0 50	6 0	71	38
508 6	513 0	4 4	322568	A few mm scale Qz Cal Cpy veinlets brecciated in the middle with bleached granodiorite breccia supported by dark green Chloritic and calcitic matrix minor Cpy blebs over all 0 5 1% Cpy	<5	0 12	<0 2	6	14
513 0	517 0	4 0	322569	Moderately fractured with Chl Cal fillings local silicified including 5 Qz Cpy (Cal) veinlets over all 1 1 5% Cpy	70	0 39	2 6	28	20
559 0	563 0	4 0	322570	Including 7 Qz Cal Cpy fine veinlets with one 2cm thick @ 25 CA along fracture minor native copper and Mal on fracture surface Over all 1 2% Cpy Bor and trace native copper and Mal and Mo	10	0 38	1 4	149	10
564 0	607 5	43 5		WEAKLY ALTERED GRANODIORITE similar to above but with less veining and most of the veinlets do not carry as much Cpy or barren Lower contact sharp @ 40 CA					
607 5	615 3	7 8		ALTERED MAFIC DIKE dark greenish grey medium to coarse grained massive Ep propylitic alteration weakly calcareous minor Cal stringers Lower contact sharp @ 50 CA					

Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
615 3	662 0	46 7		GRANODIORITE similar to that of 37 92 8 weakly Ep altered minor chloritic fractures trace local disseminated Cpy and Cpy stringers At 630 4 ft is a 5 cm banded Qz Cal Hem (Cpy) vein @ 75 CA OVER ALL THE ENTIRE HOLE IS IN THE SAME INTRUSIVE WHICH IS MOSTLY WEAKLY MINERALIZED WITH SCATTERED QZ CPY VEINLETS AND MINOR DISSEMINATED CPY					
662 0				END OF HOLE					

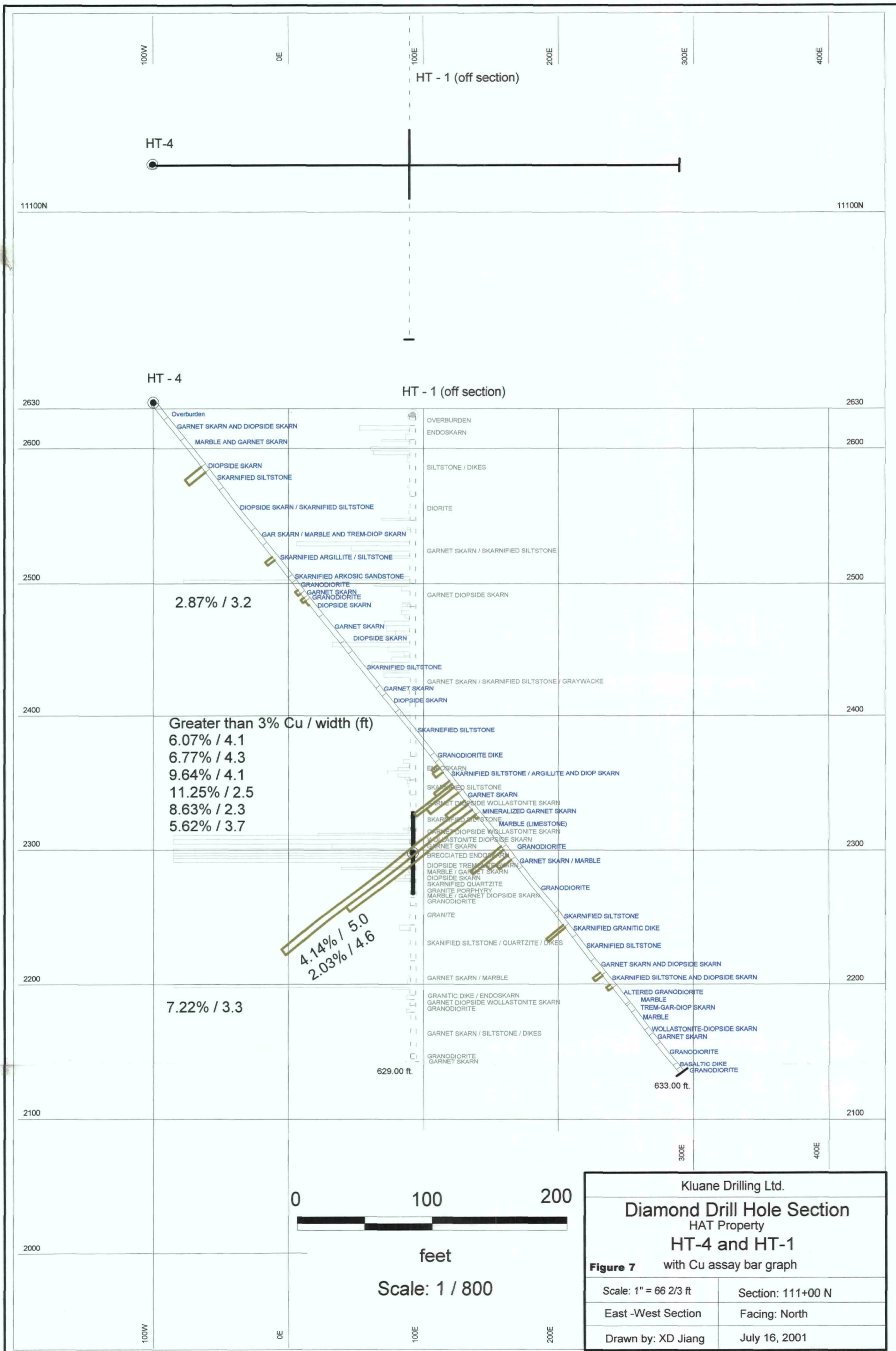


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Kluane Drilling Ltd.
Diamond Drill Hole Section
 HAT Property
HT-4 and HT-1
 with Au assay bar graph
Figure 6

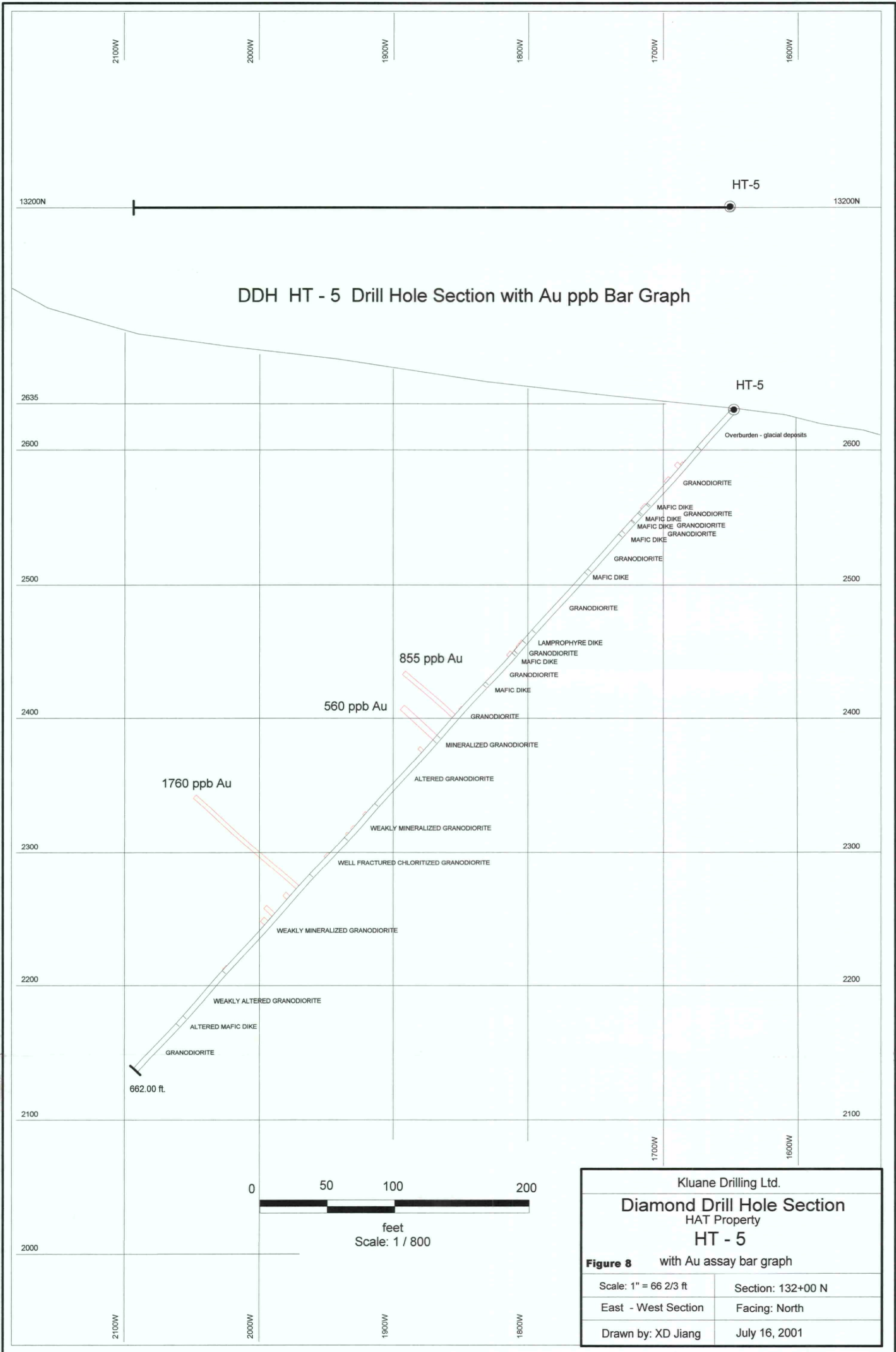
Scale: 1" = 66 2/3 ft	Section: 111+00 N
East -West Section	Facing: North
Drawn by: XD Jiang	July 16, 2001

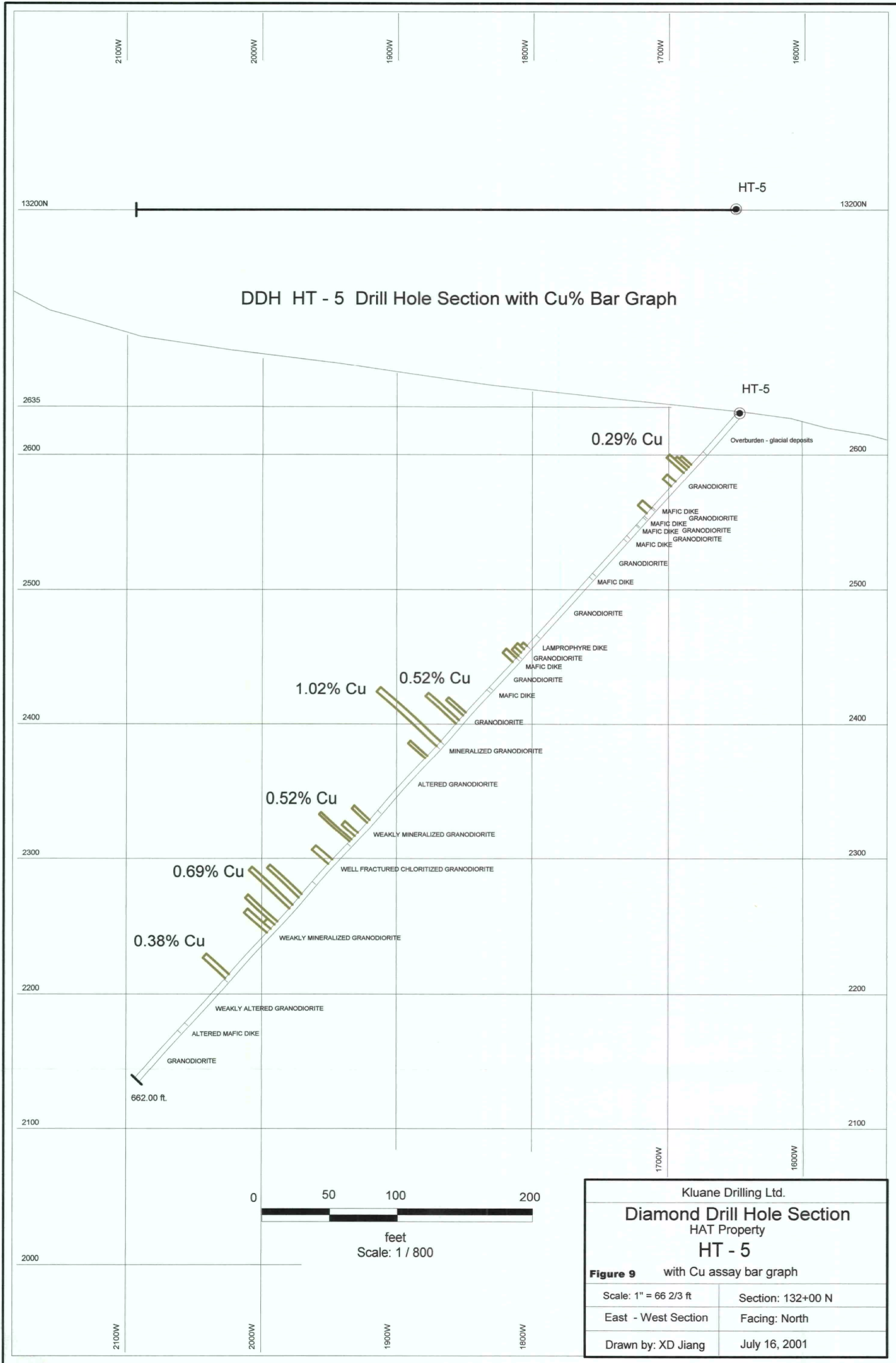


Kluane Drilling Ltd.
Diamond Drill Hole Section
 HAT Property
HT-4 and HT-1
 with Cu assay bar graph

Figure 7

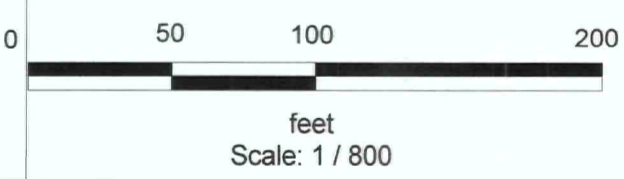
Scale: 1" = 66 2/3 ft	Section: 111+00 N
East -West Section	Facing: North
Drawn by: XD Jiang	July 16, 2001





DDH HT - 5 Drill Hole Section with Cu% Bar Graph

Kluane Drilling Ltd.	
Diamond Drill Hole Section	
HAT Property	
HT - 5	
with Cu assay bar graph	
Scale: 1" = 66 2/3 ft	Section: 132+00 N
East - West Section	Facing: North
Drawn by: XD Jiang	July 16, 2001



Conclusions and Recommendations

The drilling result for this year has shown no significant break through in looking for both skarn and porphyry style mineralization in the garbage dump site area. However, drill hole HT 5 intersected highly anomalous Cu-Au values scattered for several hundred feet in granodiorite in the northwest on line 132N. Instead of porphyry style, the mineralization looks rather like Fort Knox style intrusive hosted but with higher temperature veining. To the west of HT 5, Induced Polarization survey indicated that the chargeability anomaly associated with high resistivity is getting stronger (over 60 milli seconds) and open to the west beyond the end of the survey line. Further drilling in this area is strongly recommended. 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 24 – June 13 2000 21 days @ \$250/day	\$5 250 00
J Coyne May 27 31 2000 2 days @ \$240/day	\$480 00
D Coyne May 24 2000 1 day @ \$200/day	\$200 00

2 Diamond Drilling

Three drill holes 2005 ft (611 12m) @ \$22 00 / ft	\$44 110 00
Mob demob and site preparation	\$1 090 00

3 Assay and other

Assay ALS Chemex 87 samples	\$2 360 00
Sample shipping (BTS)	\$107 65
Truck for geologist 21 days @ \$60/day	\$1 260 00
Travel for geologist	\$495 99
Field work supplies	\$265 11

4 Report and Drafting

Copy and drafting	\$535 73
Report writing	\$1 250 00

Sub-Total \$57 404 48

GST (7% of above) \$4 018 31

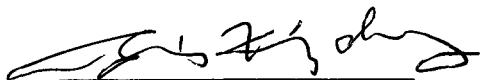
Total Assessment Value \$61,422 79

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 20th day of July 2001 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 Diamond Drilling on HAT 27 and HAT 28 Claims assessment report

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
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CC XD JIANG

CERTIFICATE

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(RHA) KLUANE DRILLING LTD

Project HAT
 P O #

Samples submitted to our lab in Vancouver BC
 This report was printed on 06-JUL-2001

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
LOG 22	71	Samples received without barcode
CRU 31	71	Crush to 70% minus 2mm
SPL 21	71	Splitting Charge
PUL 31	71	Pulv <250g to >85% / 75 micron
STO 21	71	Reject Storage First 90 Days
229	71	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, Tl, W.

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
W ICP41	71	W ppm 32 element soil & rock	ICP AES	10	10000
Zn ICP41	71	Zn ppm 32 element soil & rock	ICP AES	2	10000



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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, Tl, Tl, W.

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au AA23	71	Au ppb Fuse 30 grams	FA-AAS	5	10000
Cu AA62	71	Cu % HNO3 HClO4 HF HCl dig n	AAS	0 2	50 0
Ag ICP41	71	Ag ppm 32 element soil & rock	ICP AES	0 2	100 0
Al ICP41	71	Al % 32 element soil & rock	ICP-AES	0 01	15 00
As ICP41	71	As ppm 32 element soil & rock	ICP-AES	2	10000
B ICP41	71	B ppm 32 element rock & soil	ICP AES	10	10000
Ba ICP41	71	Ba ppm 32 element soil & rock	ICP AES	10	10000
Be ICP41	71	Be ppm 32 element soil & rock	ICP AES	0 5	100 0
Bi ICP41	71	Bi ppm 32 element soil & rock	ICP AES	2	10000
Ca ICP41	71	Ca % 32 element soil & rock	ICP-AES	0 01	15 00
Cd ICP41	71	Cd ppm 32 element soil & rock	ICP AES	0 5	500
Co ICP41	71	Co ppm 32 element soil & rock	ICP AES	1	10000
Cr ICP41	71	Cr ppm 32 element soil & rock	ICP AES	1	10000
Cu ICP41	71	Cu ppm 32 element soil & rock	ICP AES	1	10000
Fe ICP41	71	Fe % 32 element soil & rock	ICP AES	0 01	15 00
Ga ICP41	71	Ga ppm 32 element soil & rock	ICP AES	10	10000
Hg ICP41	71	Hg ppm 32 element soil & rock	ICP AES	1	10000
K ICP41	71	K % 32 element soil & rock	ICP AES	0 01	10 00
La ICP41	71	La ppm 32 element soil & rock	ICP-AES	10	10000
Mg ICP41	71	Mg % 32 element soil & rock	ICP AES	0 01	15 00
Mn ICP41	71	Mn ppm 32 element soil & rock	ICP-AES	5	10000
Mo ICP41	71	Mo ppm 32 element soil & rock	ICP-AES	1	10000
Na ICP41	71	Na % 32 element soil & rock	ICP-AES	0 01	10 00
Ni ICP41	71	Ni ppm 32 element soil & rock	ICP-AES	1	10000
P ICP41	71	P ppm 32 element soil & rock	ICP AES	10	10000
Pb ICP41	71	Pb ppm 32 element soil & rock	ICP-AES	2	10000
S ICP41	71	S % 32 element rock & soil	ICP AES	0 01	10 00
Sb ICP41	71	Sb ppm 32 element soil & rock	ICP AES	2	10000
Sc ICP41	71	Sc ppm 32 elements soil & rock	ICP AES	1	10000
Sr ICP41	71	Sr ppm 32 element soil & rock	ICP AES	1	10000
Tl ICP41	71	Tl % 32 element soil & rock	ICP-AES	0 01	10 00
Tl ICP41	71	Tl ppm 32 element soil & rock	ICP-AES	10	10000
U ICP41	71	U ppm 32 element soil & rock	ICP-AES	10	10000
V ICP41	71	V ppm 32 element soil & rock	ICP-AES	1	10000



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SAMPLE	PREP CODE	Au ppb FA+AA	Cu %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	B1 ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
322501	9400 267	< 5	< 0.01	< 0.2	1.73	8	< 10	100	< 0.5	< 2	5.58	< 0.5	4	34	98	1.46	< 10	1	0.57	< 10
322502	9400 267	< 5	< 0.01	0.2	1.28	< 2	< 10	50	< 0.5	4	1.38	< 0.5	10	83	118	3.26	< 10	< 1	0.39	< 10
322503	9400 267	< 5	< 0.01	< 0.2	1.05	18	< 10	100	< 0.5	< 2	0.57	< 0.5	8	106	29	2.82	< 10	< 1	0.65	< 10
322504	9400 267	25	0.17	1.2	0.85	6	< 10	60	< 0.5	6	1.42	< 0.5	11	77	1675	2.52	< 10	< 1	0.23	< 10
322505	9400 267	30	0.10	0.6	1.90	6	< 10	60	< 0.5	< 2	3.87	< 0.5	10	85	1025	2.05	< 10	< 1	0.30	< 10
322506	9400 267	20	0.15	0.8	1.66	4	< 10	40	< 0.5	4	3.87	< 0.5	10	46	1350	1.46	< 10	< 1	0.14	< 10
322507	9400 267	20	0.49	3.4	0.95	26	< 10	40	< 0.5	2	1.69	1.0	10	48	4920	1.81	< 10	< 1	0.13	< 10
322508	9400 267	25	0.15	0.8	1.45	10	< 10	40	< 0.5	8	2.08	< 0.5	11	59	1550	2.11	< 10	1	0.23	< 10
322509	9400 267	590	1.70	17.4	1.68	8	< 10	< 10	< 0.5	8	6.31	< 0.5	1	109	>10000	1.42	< 10	< 1	0.07	< 10
322510	9400 267	< 5	< 0.01	0.8	0.43	< 2	< 10	< 10	< 0.5	14	>15.00	< 0.5	3	45	71	1.34	< 10	3	0.10	< 10
322511	9400 267	< 5	0.14	1.6	0.83	< 2	< 10	< 10	< 0.5	4	5.40	< 0.5	1	34	1415	2.17	< 10	< 1	0.05	< 10
322512	9400 267	30	0.09	0.6	1.44	6	< 10	10	0.5	6	5.61	< 0.5	5	47	895	0.92	< 10	< 1	0.14	< 10
322513	9400 267	340	0.39	3.2	1.40	< 2	< 10	30	< 0.5	26	2.56	< 0.5	1	20	3950	0.23	< 10	1	0.16	10
322514	9400 267	10	0.01	< 0.2	0.54	< 2	< 10	70	< 0.5	2	1.10	< 0.5	< 1	37	231	1.10	< 10	< 1	0.12	10
322515	9400 267	150	0.39	2.6	1.78	2	< 10	70	< 0.5	20	1.96	< 0.5	5	44	3660	1.33	< 10	1	0.50	< 10
322516	9400 267	200	0.68	5.2	2.41	< 2	< 10	40	< 0.5	32	3.33	< 0.5	7	34	6880	1.21	< 10	< 1	0.17	< 10
322517	9400 267	695	1.99	17.8	2.39	< 2	< 10	30	1.0	136	4.30	< 0.5	3	15	>10000	0.74	< 10	< 1	0.25	< 10
322518	9400 267	70	0.80	1.6	1.95	4	< 10	50	< 0.5	6	1.19	< 0.5	16	74	7900	3.44	< 10	1	1.04	< 10
322519	9400 267	30	0.19	1.4	3.47	4	< 10	30	0.5	10	3.82	< 0.5	1	31	1870	0.50	< 10	1	0.21	< 10
322520	9400 267	10	0.09	0.4	1.34	4	< 10	160	< 0.5	4	1.74	< 0.5	13	57	929	2.31	< 10	1	0.57	< 10
322521	9400 267	320	0.27	3.4	0.66	6	< 10	190	0.5	32	1.05	< 0.5	4	33	2430	1.00	< 10	< 1	0.43	10
322522	9400 267	520	0.62	4.2	1.66	4	< 10	100	1.0	36	3.42	< 0.5	5	48	5470	1.56	< 10	< 1	0.28	10
322523	9400 267	30	0.37	0.6	1.54	14	< 10	140	1.5	10	1.86	< 0.5	11	50	3560	2.52	< 10	< 1	0.45	10
322524	9400 267	50	0.37	3.0	1.94	< 2	< 10	30	1.0	22	6.55	< 0.5	< 1	83	3430	1.58	< 10	< 1	0.06	< 10
322525	9400 267	220	0.77	6.6	1.90	10	< 10	40	1.5	62	6.90	< 0.5	1	49	7350	2.49	< 10	< 1	0.13	< 10
322526	9400 267	15	0.36	0.2	0.55	< 2	< 10	60	0.5	10	1.49	< 0.5	5	56	3550	1.53	< 10	< 1	0.13	10
322527	9400 267	225	1.84	22.4	0.63	< 2	< 10	60	0.5	108	1.06	< 0.5	4	53	>10000	1.88	< 10	< 1	0.13	10
322528	9400 267	70	0.26	1.2	1.64	10	< 10	60	1.0	16	3.04	< 0.5	11	34	2330	1.79	< 10	< 1	0.12	< 10
322529	9400 267	15	0.11	0.2	1.57	< 2	< 10	10	1.0	10	1.98	< 0.5	4	36	1030	0.82	< 10	1	0.10	10
322530	9400 267	< 5	0.04	< 0.2	0.52	< 2	< 10	50	0.5	10	0.85	< 0.5	8	41	391	1.46	< 10	< 1	0.09	10
322531	9400 267	15	0.05	< 0.2	1.10	6	< 10	50	0.5	20	1.82	< 0.5	4	46	501	0.95	< 10	< 1	0.09	10
322532	9400 267	< 5	0.01	< 0.2	2.54	< 2	< 10	40	1.5	16	3.43	< 0.5	4	61	155	0.52	< 10	< 1	0.13	10
322533	9400 267	10	0.09	0.6	2.00	2	< 10	10	1.5	28	7.16	< 0.5	2	56	819	0.97	< 10	< 1	0.05	< 10
322534	9400 267	< 5	0.11	0.2	2.13	8	< 10	40	1.5	22	3.13	< 0.5	10	52	931	1.65	< 10	< 1	0.37	< 10
322535	9400 267	25	0.25	0.8	1.05	6	< 10	50	1.0	12	1.07	< 0.5	12	124	2230	3.01	< 10	< 1	0.42	< 10
322536	9400 267	285	0.61	3.0	1.65	< 2	< 10	20	1.5	58	4.03	< 0.5	1	53	5470	0.70	< 10	6	0.10	10
322537	9400 267	40	0.45	0.8	0.98	2	< 10	50	0.5	16	1.77	< 0.5	13	109	3880	2.50	< 10	< 1	0.34	< 10
322538	9400 267	65	0.31	1.4	1.72	18	< 10	< 10	0.5	20	10.20	< 0.5	< 1	60	2720	4.99	< 10	< 1	0.04	< 10
322539	9400 267	450	4.14	20.6	1.14	2	< 10	< 10	0.5	238	9.86	< 0.5	< 1	31	>10000	6.69	< 10	< 1	< 0.01	< 10
322540	9400 267	260	2.03	6.4	1.06	8	< 10	< 10	0.5	128	11.30	< 0.5	1	32	>10000	7.01	< 10	< 1	0.01	< 10

CERTIFICATION



ALS Chemex

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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
322501	9400 267	1 28	170	7	0 13	5	590	8	0 69	6	< 1	220	0 09	< 10	< 10	18	< 10	48
322502	9400 267	0 88	85	12	0 17	16	580	2	2 02	2	1	89	0 15	< 10	< 10	79	< 10	32
322503	9400 267	1 38	120	7	0 10	14	770	< 2	1 61	8	8	71	0 14	< 10	< 10	70	< 10	42
322504	9400 267	0 65	65	34	0 08	31	1220	< 2	1 69	4	3	91	0 13	< 10	< 10	55	< 10	38
322505	9400 267	0 67	125	31	0 13	27	1290	2	1 26	2	1	160	0 12	< 10	< 10	56	< 10	38
322506	9400 267	0 35	85	25	0 08	26	1420	2	1 18	< 2	< 1	187	0 10	< 10	< 10	26	< 10	22
322507	9400 267	0 81	105	69	0 10	28	1790	42	1 16	84	1	89	0 12	< 10	< 10	40	< 10	94
322508	9400 267	1 06	115	13	0 09	30	2010	2	1 32	10	< 1	127	0 14	< 10	< 10	43	< 10	20
322509	9400 267	0 06	155	92	0 03	11	1980	4	0 94	6	1	76	0 09	< 10	< 10	36	< 10	6
322510	9400 267	0 13	680	>10000	0 01	1	660	12	1 49	28	< 1	44	0 01	< 10	< 10	5	1610	< 2
322511	9400 267	0 26	315	324	< 0 01	1	360	< 2	0 10	4	< 1	9	0 02	< 10	< 10	23	100	8
322512	9400 267	0 76	265	462	0 09	9	1150	< 2	0 18	2	1	121	0 05	< 10	< 10	20	10	36
322513	9400 267	0 19	65	11	0 22	1	900	< 2	0 21	4	< 1	431	0 08	< 10	< 10	6	< 10	12
322514	9400 267	0 10	50	39	0 16	1	1120	< 2	0 06	< 2	< 1	119	0 11	< 10	< 10	36	< 10	12
322515	9400 267	0 99	90	108	0 28	12	1070	< 2	0 49	2	< 1	149	0 17	< 10	< 10	46	< 10	26
322516	9400 267	0 32	65	55	0 49	10	1180	< 2	0 94	2	< 1	298	0 14	< 10	< 10	24	< 10	44
322517	9400 267	0 30	60	94	0 12	6	500	< 2	1 05	< 2	< 1	627	0 06	< 10	< 10	8	< 10	14
322518	9400 267	2 32	150	171	0 13	26	1310	< 2	1 82	6	3	74	0 25	< 10	< 10	96	< 10	50
322519	9400 267	0 33	65	22	0 76	3	1120	< 2	0 25	< 2	< 1	372	0 12	< 10	< 10	20	< 10	22
322520	9400 267	0 97	140	275	0 15	20	1090	< 2	0 98	< 2	< 1	121	0 22	< 10	< 10	69	< 10	28
322521	9400 267	0 60	90	422	0 11	11	730	14	0 47	< 2	< 1	118	0 17	< 10	< 10	29	< 10	32
322522	9400 267	0 63	120	55	0 14	15	1360	8	0 77	4	2	177	0 14	< 10	< 10	39	< 10	30
322523	9400 267	1 50	180	63	0 13	26	2070	2	1 17	10	3	179	0 18	< 10	< 10	54	< 10	46
322524	9400 267	0 07	410	6	0 05	3	550	6	0 19	< 2	2	95	0 07	< 10	< 10	25	< 10	8
322525	9400 267	0 05	275	11	0 08	4	780	10	0 39	6	4	240	0 09	< 10	< 10	44	< 10	16
322526	9400 267	0 56	175	19	0 11	15	1550	4	0 56	2	3	60	0 15	< 10	< 10	47	< 10	24
322527	9400 267	0 45	175	31	0 10	8	800	8	1 13	6	1	68	0 11	< 10	< 10	38	< 10	20
322528	9400 267	0 26	75	44	0 12	14	980	6	1 54	2	1	150	0 10	< 10	< 10	19	< 10	54
322529	9400 267	0 27	40	337	0 33	9	1310	6	0 56	< 2	< 1	180	0 14	< 10	< 10	23	< 10	30
322530	9400 267	0 17	55	15	0 12	12	720	6	0 91	8	< 1	62	0 09	< 10	< 10	15	< 10	10
322531	9400 267	0 13	70	26	0 18	11	1100	12	0 48	< 2	< 1	395	0 13	< 10	< 10	22	< 10	24
322532	9400 267	0 22	65	499	0 35	12	2100	6	0 32	< 2	1	405	0 13	< 10	< 10	25	< 10	20
322533	9400 267	0 08	250	264	0 12	7	1130	16	0 22	< 2	1	300	0 07	< 10	< 10	24	< 10	26
322534	9400 267	0 71	120	35	0 34	26	1230	4	1 12	< 2	1	602	0 11	< 10	< 10	35	< 10	40
322535	9400 267	1 28	100	23	0 11	37	1350	12	1 91	2	6	62	0 18	< 10	< 10	99	< 10	52
322536	9400 267	0 17	125	8070	0 29	6	1280	14	1 04	< 2	< 1	141	0 13	< 10	< 10	18	< 10	16
322537	9400 267	0 97	125	99	0 10	33	1160	6	1 59	6	5	96	0 14	< 10	< 10	70	< 10	32
322538	9400 267	0 04	680	14	0 01	2	1040	6	0 17	4	3	23	0 07	< 10	< 10	42	< 10	2
322539	9400 267	0 06	570	6	0 01	4	260	8	1 60	12	1	26	0 03	< 10	10	33	< 10	18
322540	9400 267	0 08	590	6	0 01	4	290	< 2	1 28	6	1	53	0 03	< 10	< 10	38	< 10	8

CERTIFICATION

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ALS Chemex

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 British Columbia Canada V7J 2C1
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To KLUANE DRILLING LTD

14 MACDONALD RD
 WHITEHORSE YT
 Y1A 4L2

Project HAT
 Comments ATTN JIM COYNE CC XD JIANG

Page Number 2 A
 Total Pages 2
 Certificate Date 27 JUN 2001
 Invoice No 10118613
 P O Number
 Account RHA

CERTIFICATE OF ANALYSIS A0118613

SAMPLE	PREP CODE	Au ppb FA+AA	Cu %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	B1 ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
322541	9400 267	< 5	0 03	< 0 2	0 37	< 2	< 10	50	< 0 5	< 2	>15 00	< 0 5	< 1	6	202	0 29	< 10	< 1	0 11	< 10
322542	9400 267	115	0 49	2 4	0 40	< 2	< 10	30	< 0 5	28	8 50	< 0 5	1	22	3920	0 56	< 10	2	0 04	10
322543	9400 267	125	0 29	1 8	0 76	6	< 10	70	0 5	32	2 24	< 0 5	6	63	2720	1 36	< 10	< 1	0 16	10
322544	9400 267	95	0 19	1 8	0 57	< 2	< 10	60	0 5	30	2 02	< 0 5	2	47	2510	0 69	< 10	< 1	0 18	10
322545	9400 267	35	0 27	0 8	0 63	< 2	< 10	60	0 5	10	1 61	< 0 5	5	50	1705	0 98	< 10	2	0 15	< 10
322546	9400 267	< 5	0 12	0 2	1 83	2	< 10	70	0 5	8	2 44	< 0 5	8	52	1155	0 85	< 10	< 1	0 16	< 10
322547	9400 267	< 5	0 06	< 0 2	1 59	16	< 10	60	1 0	8	1 04	< 0 5	13	153	659	5 14	< 10	< 1	0 28	< 10
322548	9400 267	< 5	0 16	< 0 2	0 96	< 2	< 10	140	0 5	10	1 04	< 0 5	7	73	1585	2 10	< 10	2	0 27	10
322549	9400 267	20	0 20	0 2	1 01	< 2	< 10	180	0 5	2	0 98	< 0 5	7	70	2170	2 11	< 10	< 1	0 19	10
322550	9400 267	65	0 29	0 6	0 94	6	< 10	160	0 5	26	1 25	< 0 5	6	56	2930	2 02	< 10	< 1	0 21	10
322551	9400 267	30	0 14	0 4	1 09	2	< 10	120	0 5	14	1 43	< 0 5	8	56	1370	2 14	< 10	< 1	0 18	10
322552	9400 267	20	0 15	< 0 2	0 99	< 2	< 10	120	0 5	8	1 36	< 0 5	6	56	1640	1 95	< 10	< 1	0 15	10
322553	9400 267	15	0 06	< 0 2	1 50	< 2	< 10	100	1 0	8	2 32	< 0 5	12	58	651	2 74	< 10	< 1	0 16	10
322554	9400 267	15	0 11	< 0 2	1 12	< 2	< 10	120	0 5	8	1 78	< 0 5	9	56	1160	2 28	< 10	< 1	0 24	10
322555	9400 267	< 5	0 11	< 0 2	1 14	2	< 10	130	0 5	8	1 85	< 0 5	7	56	770	2 16	< 10	< 1	0 25	10
322556	9400 267	35	0 17	2 0	1 24	2	< 10	90	0 5	20	2 05	< 0 5	9	62	1705	2 50	< 10	< 1	0 20	10
322557	9400 267	10	0 29	< 0 2	0 78	< 2	< 10	90	0 5	6	0 76	< 0 5	4	48	2320	1 28	< 10	< 1	0 13	< 10
322558	9400 267	855	0 52	2 8	0 90	2	< 10	110	0 5	46	1 16	< 0 5	5	63	5630	1 60	< 10	< 1	0 21	10
322559	9400 267	560	1 02	11 2	0 73	< 2	< 10	70	0 5	76	1 46	< 0 5	1	59	>10000	0 94	< 10	1	0 15	10
322560	9400 267	65	0 29	1 4	1 28	2	< 10	80	0 5	18	1 97	< 0 5	9	66	2980	2 32	< 10	1	0 13	10
322561	9400 267	20	0 26	0 2	1 36	4	< 10	90	0 5	8	2 35	< 0 5	9	66	2790	2 31	< 10	3	0 13	10
322562	9400 267	20	0 22	< 0 2	1 00	10	< 10	90	0 5	4	1 33	< 0 5	7	48	2160	1 60	< 10	2	0 13	10
322563	9400 267	25	0 52	0 2	1 35	< 2	< 10	290	0 5	6	2 32	< 0 5	9	48	5360	2 32	< 10	< 1	0 13	10
322564	9400 267	25	0 28	0 6	1 58	< 2	< 10	100	0 5	10	2 98	< 0 5	10	45	2810	2 30	< 10	< 1	0 15	10
322565	9400 267	1760	0 54	4 4	1 03	4	< 10	110	0 5	74	1 36	< 0 5	7	51	5890	1 96	< 10	< 1	0 10	< 10
322566	9400 267	70	0 69	0 8	1 29	6	< 10	130	0 5	32	2 93	< 0 5	9	49	6810	2 23	< 10	< 1	0 19	10
322567	9400 267	145	0 50	6 0	1 39	6	< 10	100	0 5	38	2 94	< 0 5	12	63	4830	2 48	< 10	< 1	0 15	10
322568	9400 267	< 5	0 12	< 0 2	1 58	< 2	< 10	90	< 0 5	14	4 02	< 0 5	11	47	1060	2 08	< 10	< 1	0 22	10
322569	9400 267	70	0 39	2 6	1 74	42	< 10	190	0 5	20	3 55	2 5	13	56	3720	2 58	< 10	< 1	0 16	10
322570	9400 267	10	0 38	1 4	1 31	< 2	< 10	110	0 5	10	4 72	< 0 5	9	58	3600	1 99	< 10	3	0 14	10
322571	9400 267	< 5	< 0 01	< 0 2	5 73	22	< 10	110	1 5	10	5 74	< 0 5	10	48	66	1 83	10	< 1	0 32	< 10

CERTIFICATION _____



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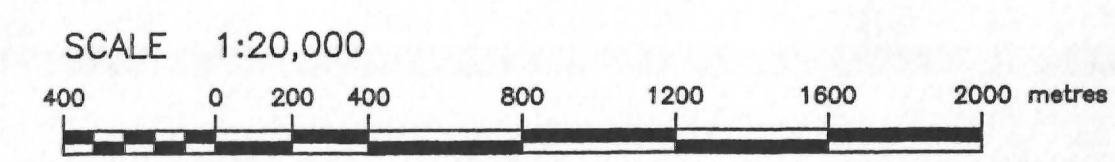
CERTIFICATE OF ANALYSIS A0118613

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
322541	9400 267	0 36	85	2	0 03	6	< 10	< 2	0 17	< 2	< 1	749	< 0 01	< 10	< 10	2	< 10	6
322542	9400 267	0 21	105	14	0 05	5	640	< 2	0 32	< 2	< 1	199	0 06	< 10	< 10	12	< 10	6
322543	9400 267	0 75	240	99	0 10	12	940	8	0 23	6	4	88	0 16	< 10	< 10	59	< 10	16
322544	9400 267	0 31	150	44	0 10	6	720	< 2	0 17	< 2	1	92	0 08	< 10	< 10	24	< 10	14
322545	9400 267	0 21	85	18	0 14	6	340	6	0 75	< 2	< 1	182	0 07	< 10	< 10	12	< 10	16
322546	9400 267	0 29	65	7	0 28	13	420	2	0 67	2	< 1	378	0 05	< 10	< 10	14	< 10	32
322547	9400 267	1 63	190	28	0 12	16	740	8	2 99	< 2	4	66	0 24	< 10	< 10	110	< 10	46
322548	9400 267	0 68	225	7	0 16	12	1250	2	0 19	< 2	3	59	0 18	< 10	< 10	73	< 10	24
322549	9400 267	0 71	220	1	0 14	14	1160	2	0 15	4	3	77	0 18	< 10	< 10	73	< 10	22
322550	9400 267	0 67	215	6	0 13	12	1180	6	0 30	< 2	3	56	0 18	< 10	< 10	70	< 10	22
322551	9400 267	0 81	265	3	0 13	13	1250	2	0 08	2	3	78	0 17	< 10	< 10	75	< 10	26
322552	9400 267	0 63	220	3	0 13	11	1210	2	0 15	< 2	2	85	0 16	< 10	< 10	71	< 10	22
322553	9400 267	1 42	420	1	0 11	20	1200	2	0 05	8	6	94	0 17	< 10	< 10	98	< 10	32
322554	9400 267	0 97	290	6	0 12	15	1330	< 2	0 14	2	4	70	0 15	< 10	< 10	82	< 10	24
322555	9400 267	0 95	300	69	0 13	13	1270	< 2	0 09	< 2	3	73	0 16	< 10	< 10	81	< 10	22
322556	9400 267	1 05	325	56	0 13	16	1280	4	0 15	2	4	84	0 17	< 10	< 10	92	< 10	30
322557	9400 267	0 50	135	13	0 09	9	830	2	0 18	< 2	1	64	0 12	< 10	< 10	45	20	14
322558	9400 267	0 54	155	109	0 14	11	1200	4	0 38	< 2	2	66	0 17	< 10	< 10	57	< 10	16
322559	9400 267	0 31	75	139	0 11	6	1120	< 2	0 72	< 2	1	81	0 14	< 10	< 10	37	10	6
322560	9400 267	1 01	305	5	0 11	16	1150	2	0 20	< 2	4	86	0 16	< 10	< 10	76	< 10	32
322561	9400 267	1 16	335	6	0 11	17	1170	2	0 30	6	5	90	0 15	< 10	< 10	91	< 10	30
322562	9400 267	0 63	180	173	0 12	11	1220	2	0 25	4	2	110	0 16	< 10	< 10	64	< 10	20
322563	9400 267	1 18	305	4	0 10	17	1140	8	0 59	2	5	117	0 13	< 10	< 10	84	< 10	28
322564	9400 267	1 48	465	5	0 09	20	1180	10	0 31	2	7	108	0 12	< 10	< 10	88	< 10	36
322565	9400 267	0 75	210	14	0 11	14	1280	6	0 46	< 2	2	79	0 14	< 10	< 10	62	< 10	22
322566	9400 267	1 21	395	18	0 07	19	1190	4	0 73	2	5	96	0 08	< 10	< 10	65	< 10	28
322567	9400 267	1 42	450	71	0 08	22	1050	12	0 42	18	6	103	0 06	< 10	< 10	78	< 10	76
322568	9400 267	1 49	570	6	0 07	20	960	4	0 13	6	5	112	0 02	< 10	< 10	55	< 10	70
322569	9400 267	1 66	480	28	0 08	25	1010	12	0 39	102	7	144	0 06	< 10	< 10	83	< 10	130
322570	9400 267	1 16	500	149	0 08	17	970	114	0 33	< 2	5	172	0 06	< 10	< 10	60	< 10	62
322571	9400 267	0 51	100	1	0 33	20	850	16	0 93	12	2	457	0 13	< 10	< 10	23	< 10	38

CERTIFICATION

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FIGURE 2



UNDERHILL GEOMATICS LTD. CONSULTING ENGINEERS VANCOUVER, BRITISH COLUMBIA WHITEHORSE, YUKON				DATE: 22/06/00 ISSUED FOR: XDJ No.: 1 DATE: 22/06/00 BY: PR REVISION: Added HAT CLAIMS 41 to 44 / Scale change to 1:20,000		DESIGN BY: PNR DRAWN BY: PNR APPROVED: XDJ APP'D:		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	
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J: 99072.Ba Image.dwg Mon Jun 26 08:07:17 2000 Underhill Geomatics Ltd.

Figure 3
HAT Property Geology and Data Compilation Map

Scale: 1:4800



GEOLOGICAL LEGEND	
CENOZOIC	
QUATERNARY	
700	PLEISTOCENE & RECENT ALLUVIUM, GLACIAL DRIFT
700	MILES CANYON BASALT
POST CRETACEOUS	
INTRUSIVE DYKES OR SILLS	
700	ACIDIC GRANITIC, APLITE, FELSITE, 90-may pre-ore skarn
700	BASIC ANDESITE, DIORITE, POST-ORE, 90m - porphyry
MESOZOIC	
CRETACEOUS	
COAST INTRUSIVES	
700	DIORITE 80- ALTERED (ENDOSKARN) 80- MINERALISED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE
700	70- GRANITE, 70-GRANDIORITE, 70- QUARTZ-MONZONITE
LOWER JURASSIC & LATER	
LABERGE GROUP	
UPPER TRIASSIC	
LEWES RIVER GROUP (METAMORPHOSED)	
700	LIMESTONE AND/OR DOLOMITE, 50-CARBONACEOUS LIMESTONE
700	SEDIMENTS - NONCALCAREOUS 40- QUARTZITE 40- GREYWACKE 40- ARKOSE
700	SKARN BARREN WITH.....
700	MINERALISED SILICATE SKARN.....
700	MINERALISED MAGNETITE SKARN.....

○ Previous Drill Holes
● Year 2000 Drill Holes
— Trenches

Kluane Drilling Ltd.
HAT Property Geology and Data Compilation Map
Scale: 1:4800 Figures: 3
Mining District: Whitehorse NTS: 105 D/1,14
Drawn By: XJD Date: August 2000

YUKON ENVIRONMENTAL
& HERITAGE
105 D/1,14