

[YMIP 01-028]

ASSESSMENT REPORT

DIAMOND DRILLING

on

094220

HAT 27 and HAT 23 CLAIMS

YB58049 and YB58023

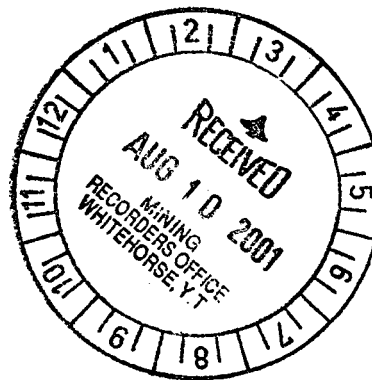
May 24 – June 13, 2001

Latitude 60°44'44"N, Longitude 134°44'44"

NTS 105 D/11, 14

**WHITEHORSE MINING DISTRICT
YUKON TERRITORY**

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for

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by

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July 20, 2001

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 10,525.00.

for M. B. h
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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

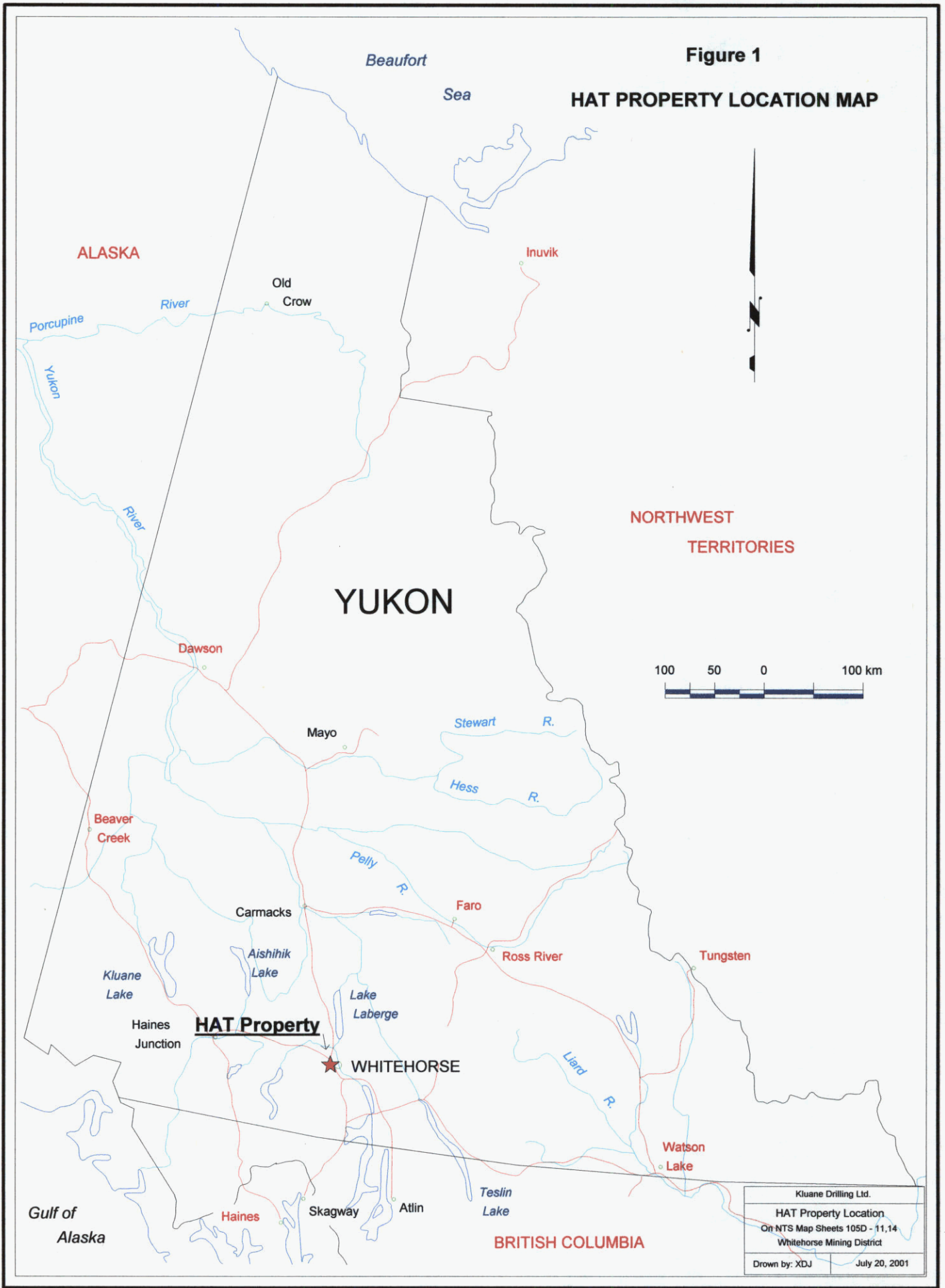
The HAT property consists of 52 contiguous mineral claims including HAT 1 – 48 and Bornite 1 - 2 and Zircon 2 and Zircon 4. The claim status and ownership are listed in Table – 1. The claims are located about 5 km NW of Whitehorse City downtown, and to the west of Alaska Highway, with its center at about 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 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 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 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.

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 - pyrrotite, 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)							
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.					

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

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)							
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 Siltston / 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

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)							
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 - pyrrotite, 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 feldpar 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 crystic 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

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.					

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.

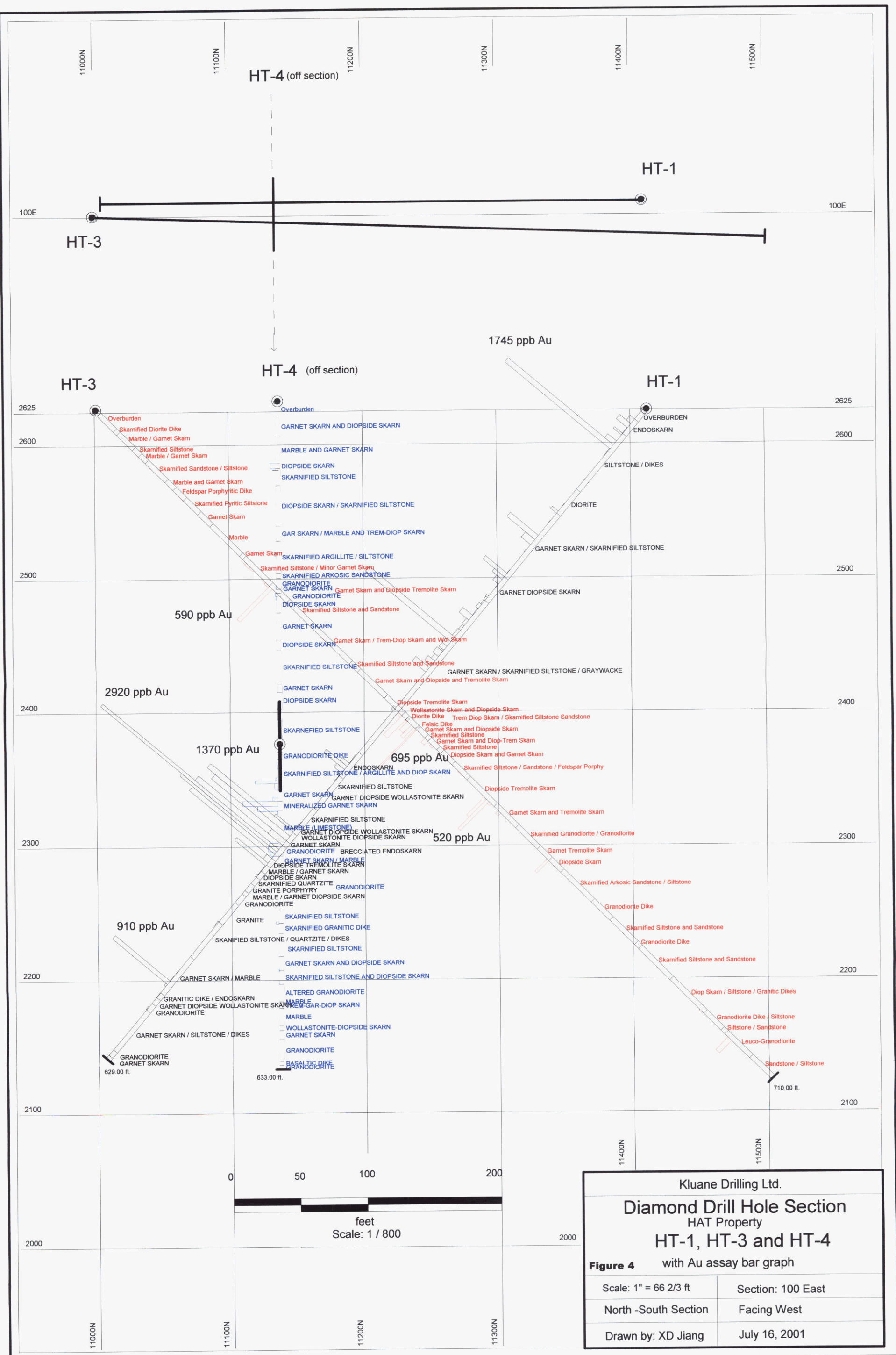
Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
110.8	121.0	10.2		GRANODIORITE, same as 37 - 92.8 ft. From 115 to 123 ft is a fault zone, well fractured, and some decomposed granodiorite with minor local fault gouge. Lower contact broken.					
121.0	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

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.					

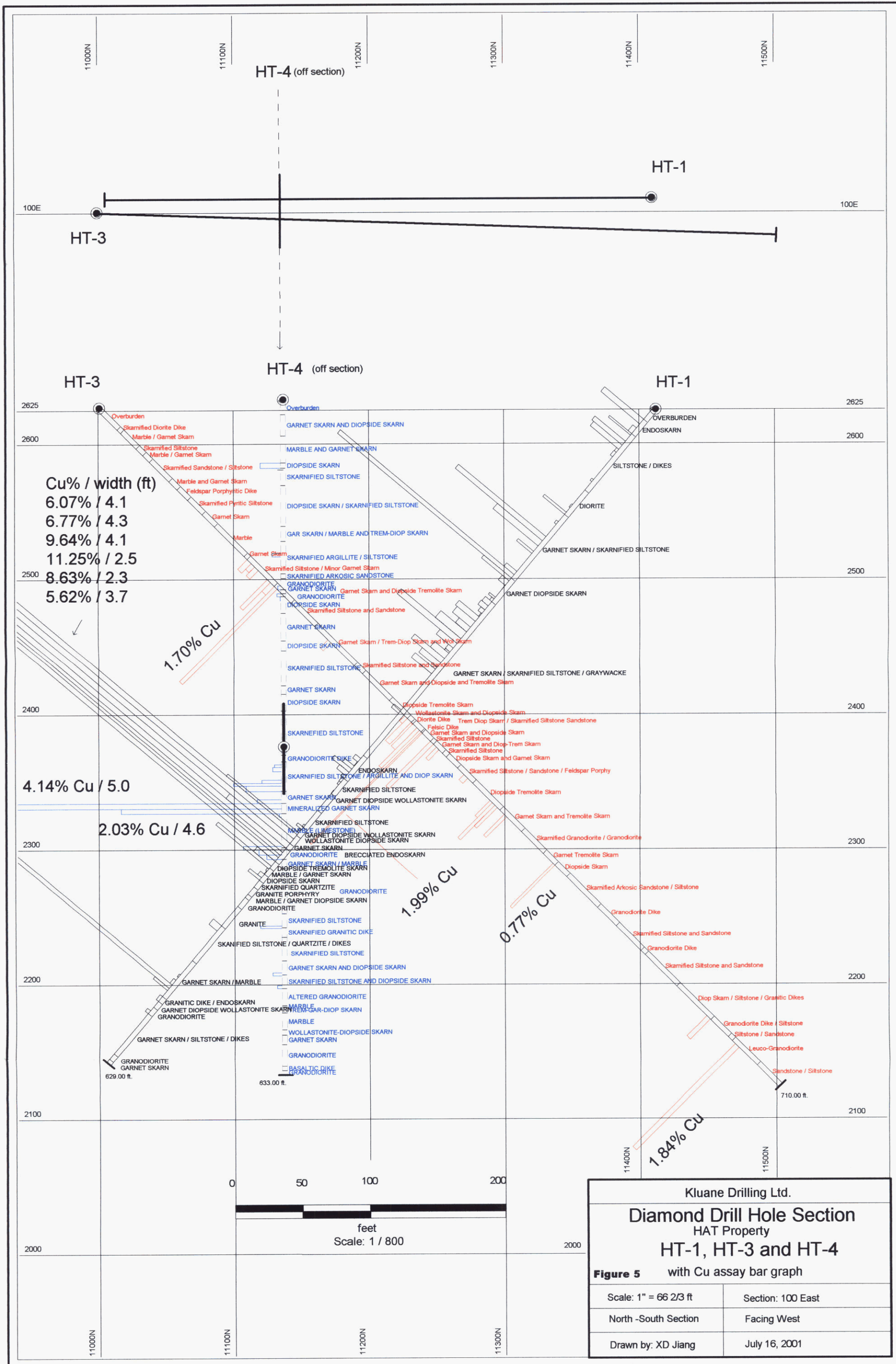
Footage			Sample #	Description	Au ppb	Cu %	Ag ppm	Mo ppm	Bi ppm
From (ft)	To (ft)	Width (ft)							
615.3	662.0	46.7		GRANODIORITE, similar to that of 37 - 92.8, weakly Ep altered, minor chloritic fractures, trace local disseminated Cpy and Cpy stringers. At 630.4 ft is a 5 cm banded Qz-Cal-Hem-(Cpy) 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.					



Kluane Drilling Ltd.
Diamond Drill Hole Section
 HAT Property
HT-1, HT-3 and HT-4
 with Au assay bar graph

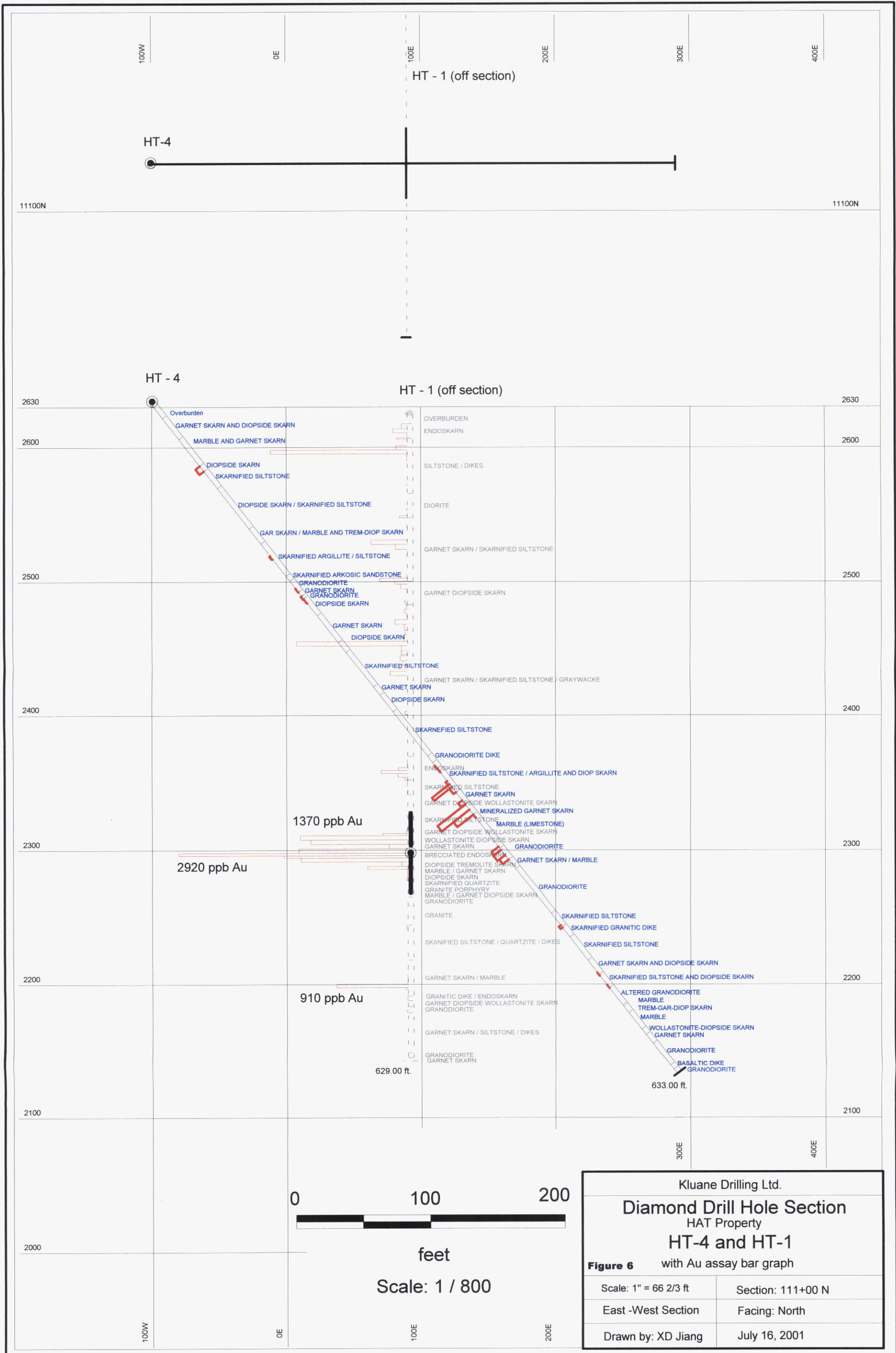
Figure 4

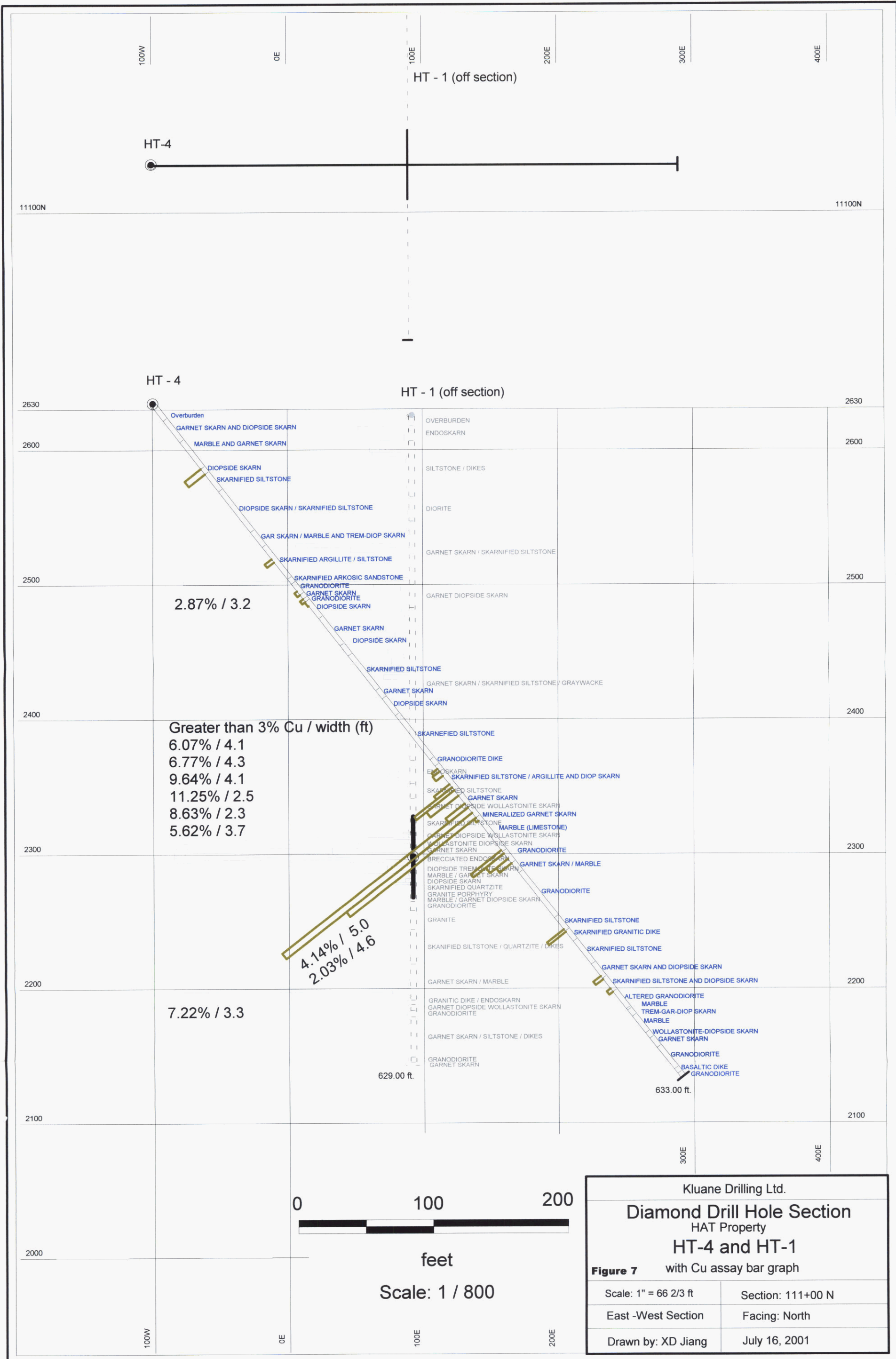
Scale: 1" = 66 2/3 ft	Section: 100 East
North -South Section	Facing West
Drawn by: XD Jiang	July 16, 2001

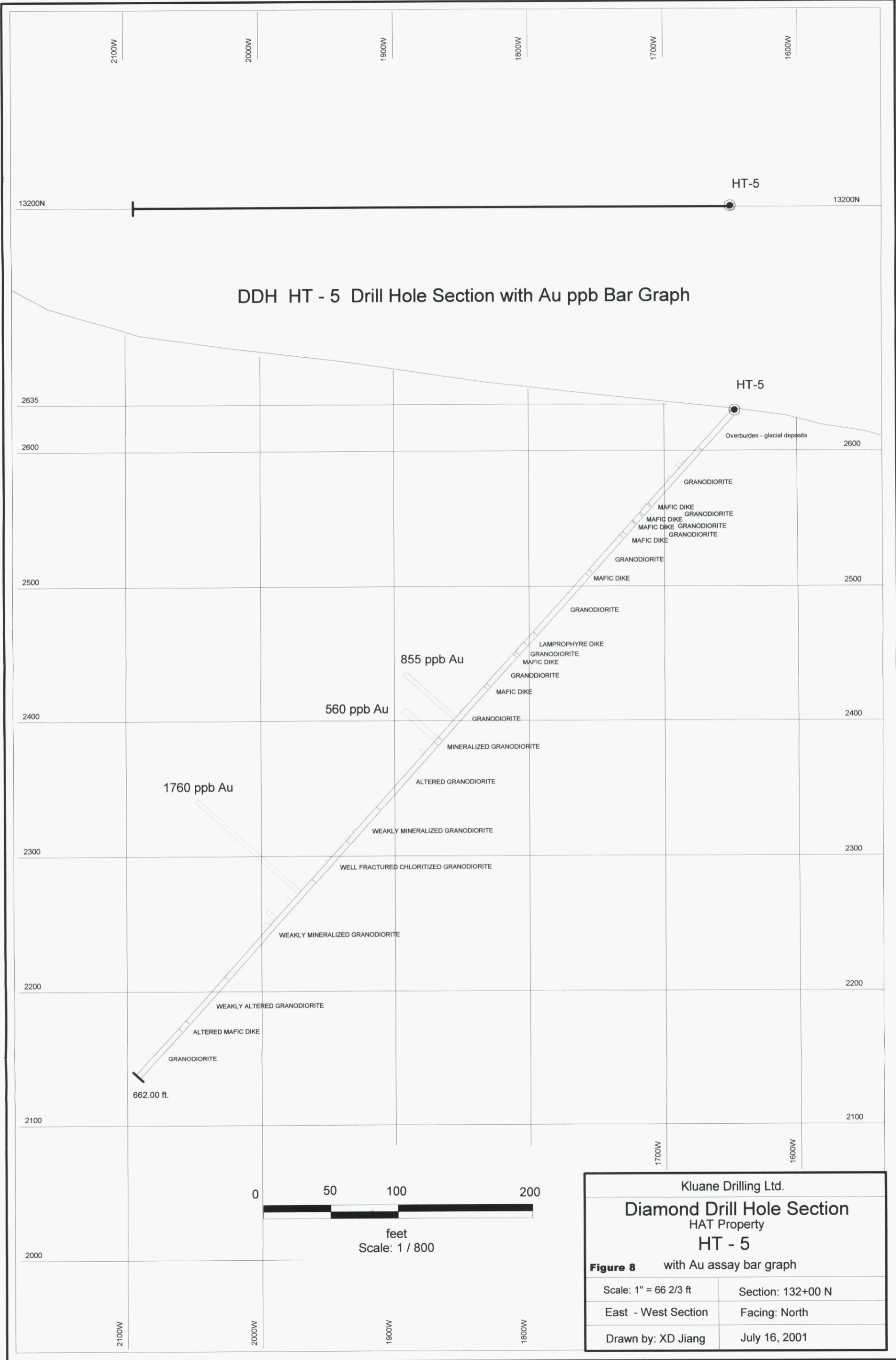


Kluane Drilling Ltd.
Diamond Drill Hole Section
 HAT Property
HT-1, HT-3 and HT-4
Figure 5 with Cu assay bar graph

Scale: 1" = 66 2/3 ft	Section: 100 East
North-South Section	Facing West
Drawn by: XD Jiang	July 16, 2001







DDH HT - 5 Drill Hole Section with Au ppb Bar Graph

HT-5

HT-5

Overburden - glacial deposits

GRANODIORITE

MAFIC DIKE GRANODIORITE

MAFIC DIKE GRANODIORITE

MAFIC DIKE GRANODIORITE

MAFIC DIKE

GRANODIORITE

MAFIC DIKE

GRANODIORITE

LAMPROPHYRE DIKE

GRANODIORITE

MAFIC DIKE

GRANODIORITE

MAFIC DIKE

GRANODIORITE

MINERALIZED GRANODIORITE

ALTERED GRANODIORITE

WEAKLY MINERALIZED GRANODIORITE

WELL FRACTURED CHLORITIZED GRANODIORITE

WEAKLY MINERALIZED GRANODIORITE

WEAKLY ALTERED GRANODIORITE

ALTERED MAFIC DIKE

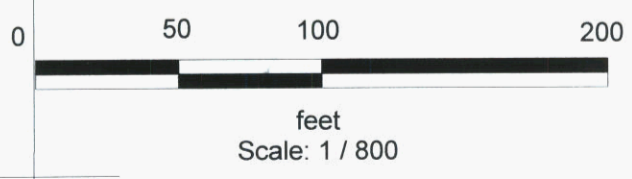
GRANODIORITE

855 ppb Au

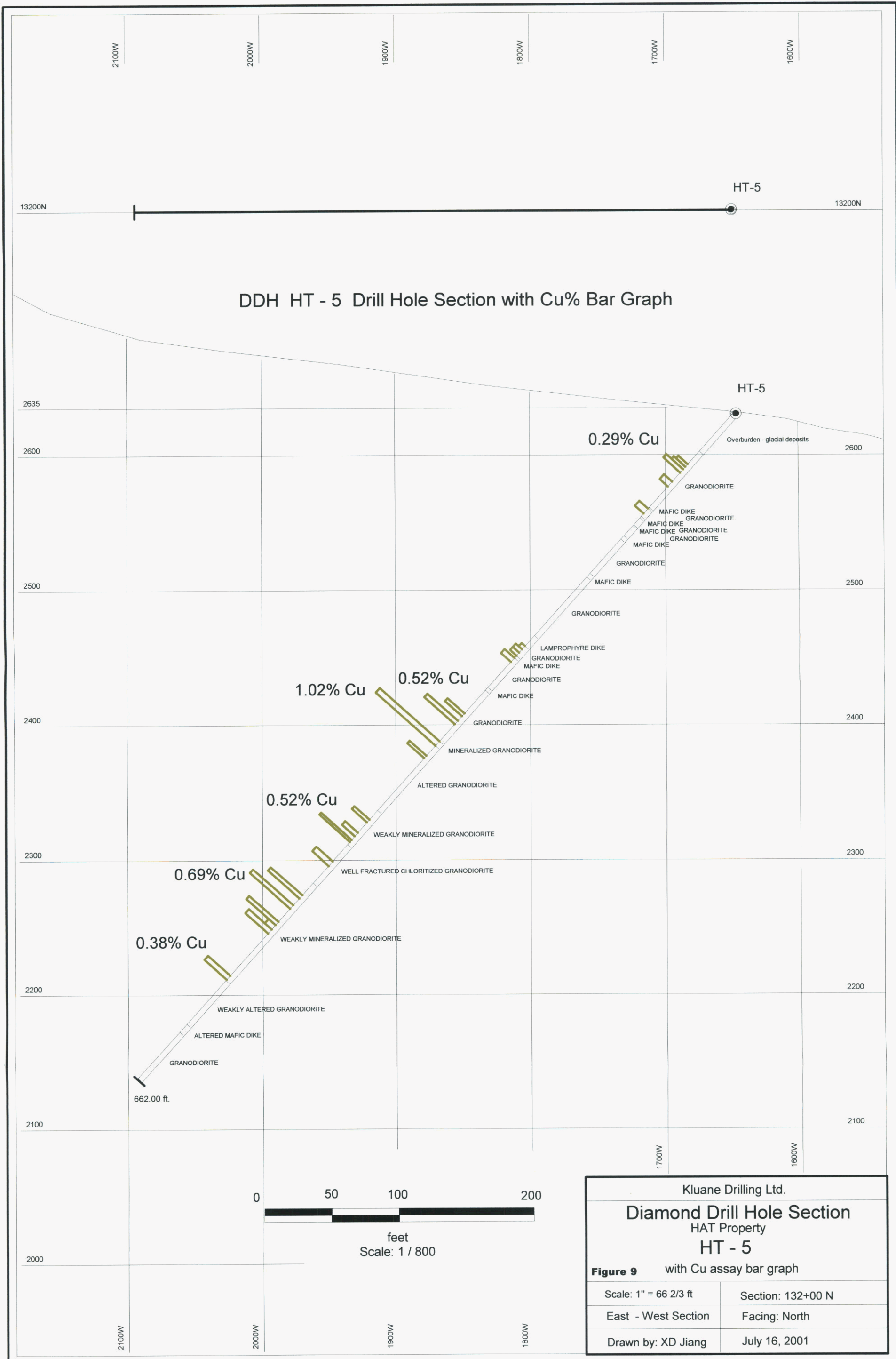
560 ppb Au

1760 ppb Au

662.00 ft.



Kluane Drilling Ltd.	
Diamond Drill Hole Section	
HAT Property	
HT - 5	
Figure 8 with Au 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



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
Figure 9
 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
 PHONE: 604-984-0221 FAX: 604-984-0218

To: KLUANE DRILLING LTD.

14 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

A0118613

Comments: ATTN: JIM COYNE

CC: XD JIANG

CERTIFICATE

A0118613

(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, Ti, 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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ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23	71	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Cu-AA62	71	Cu %: HNO3-HClO4-HF-HCl dig'n	AAS	0.01	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
Ti-ICP41	71	Ti %: 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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Project: HAT
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CC: XD JIANG

Page Number : 1-A
 Total Pages : 2
 Certificate Date: 27-JUN-2001
 Invoice No. : I0118613
 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	Bi 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	20	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:



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To: KLUANE DRILLING LTD.

14 MACDONALD RD.
 WHITEHORSE, YT
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CERTIFICATE OF ANALYSIS

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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:



ALS Chemex

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 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: JIM COYNE CC: XD JIANG

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CERTIFICATE OF ANALYSIS A0118613

SAMPLE	PREP CODE	Au ppb FA+AA	Cu %	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
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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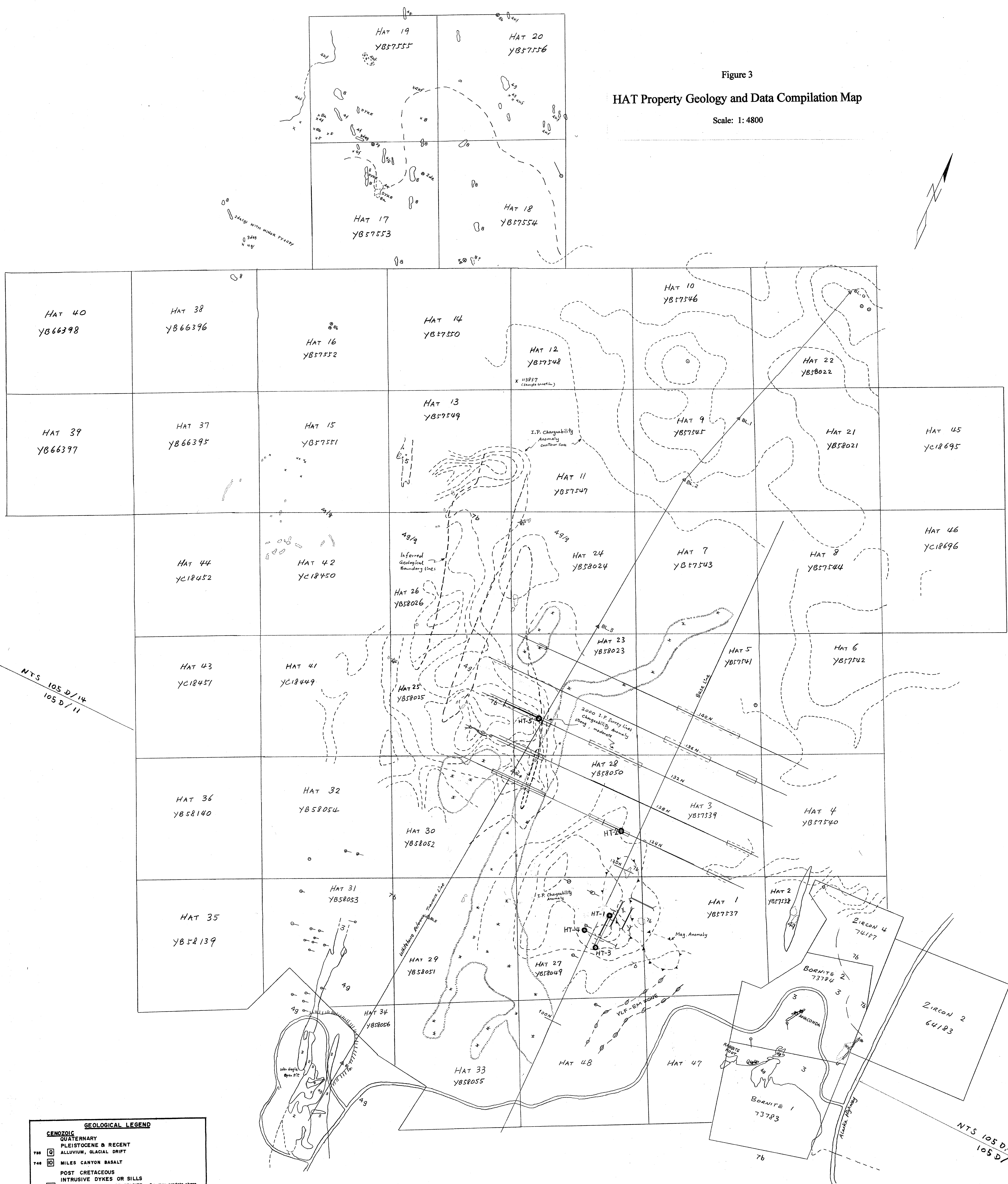
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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
322541	9400 267	0.36	85	2	0.03	6	< 10	< 2	0.17	< 2	< 1	749	< 0.01	< 10	< 10	2	< 10	6
322542	9400 267	0.21	105	14	0.05	5	640	< 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: _____

Figure 3
HAT Property Geology and Data Compilation Map

Scale: 1:4800



GEOLOGICAL LEGEND	
CEANOZOIC	
QUATERNARY	
PLEISTOCENE & RECENT	
740	ALLUVIUM, GLACIAL DRIFT
740	MILES CANYON BASALT
POST CRETACEOUS	
INTRUSIVE DYKES OR SILLS	
740	ACIDIC GRANITIC, APLITE, FELSITE, Di-may provide about
740	BASIC ANDESITE, DIORITE, POST-ORE, Dior - porphyry
MESOZOIC	
CRETACEOUS	
COAST INTRUSIVES	
740	DIORITE Di - ALTERED (ENOSKARN) Di - MINERALISED ENOSKARN MALACHITE, CHALCOPYRITE, BORNITE
740	7q - GRANITE, 7r - GRANODIORITE, 7m - QUARTZ-MONZONITE
LOWER JURASSIC & LATER	
LABERGE GROUP	
740	UPPER TRIASSIC
LEWIS RIVER GROUP (METAMORPHOSED)	
740	LIMESTONE AND/OR DOLOMITE, Di - CARBONACEOUS LIMESTONE
740	4q - QUARTZITE
740	SEDIMENTS - NON-CALCAREOUS 4q - GREYWACKE 4s - ARKOSE
740	SKARN BARREN WITH.....
740	2 MINERALISED SILICATE SKARN.....
740	1 MINERALISED MAGNETITE SKARN.....

○ Previous Drill Holes
● Year 2009 Drill Holes
— Trenches

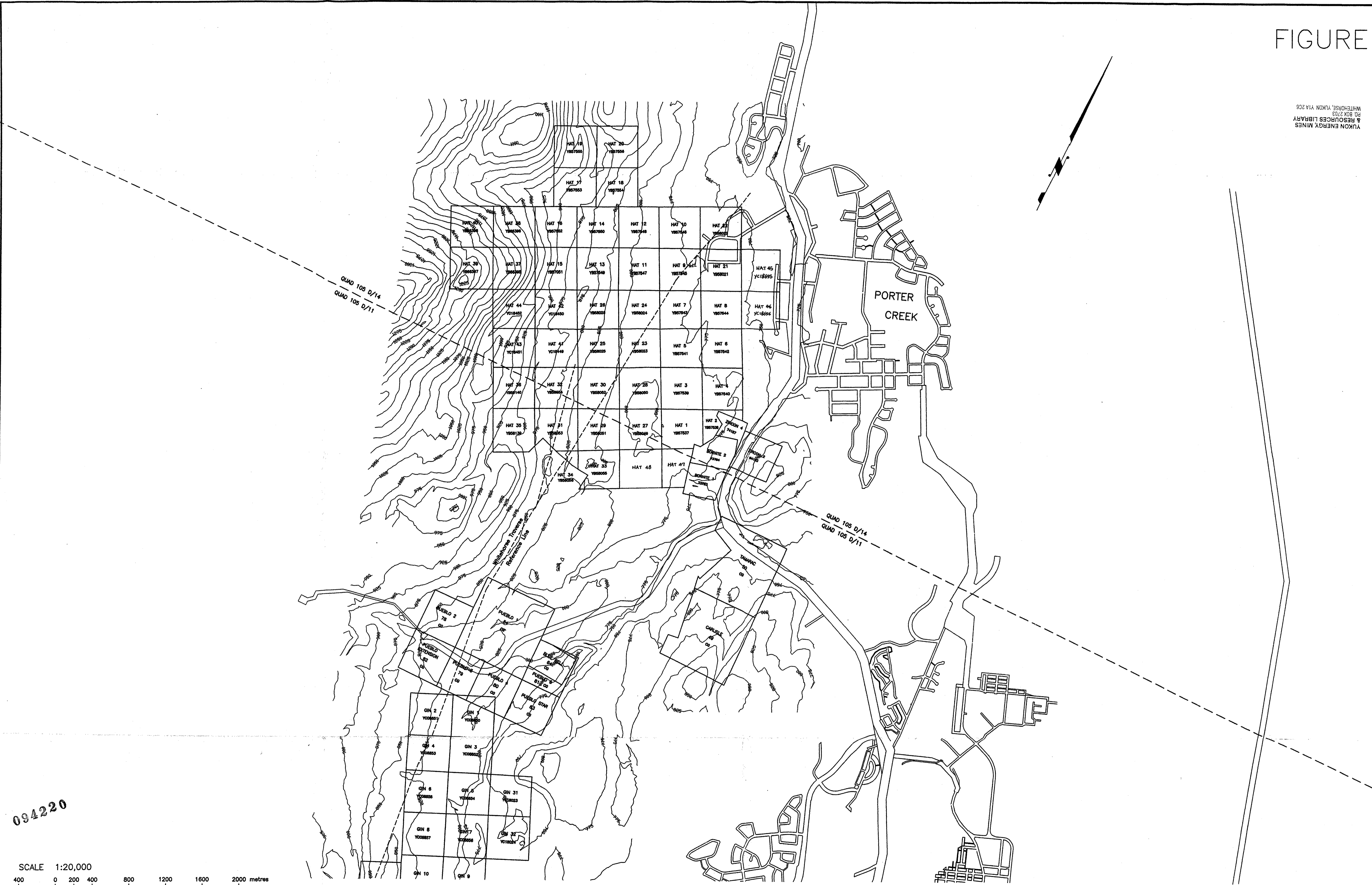
Khuame Drilling Ltd.			
HAT Property Geology and Data Compilation Map			
Scale:	1:4800	Figure:	3
Mining District:	Whitcomb	NTS:	105 D/11, 14
Drawn By:	XDJ	Date:	August 2000

YUKON ENERGY MINES & RESOURCES LIBRARY
105 D/11, 14
WHITCOMB, YUKON Y1A 2G6

084220

FIGURE 2

YUKON ENERGY MINES
& RESOURCES LIBRARY
5322 KEN RD
WHITEHORSE, YUKON Y1A 2G5



094220

SCALE 1:20,000
400 0 200 400 800 1200 1600 2000 metres

UNDERHILL GEOMATICS LTD. CONSULTING ENGINEERS VANCOUVER, BRITISH COLUMBIA WHITEHORSE, YUKON		DESIGN BY: XDJ DRAWN BY: PNR APPROVED: XDJ		JOB No: 99072 DATE: 23/02/00 SCALE: 1:20,000		CLIENT: KLUANE DRILLING LTD. PROJECT: HAT CLAIM PROJECT		SHEET 1 OF 1 DRAWING NUMBER: 256-24 REVISION: 1	
DATE	ISSUED FOR	No.	DATE	BY	REVISION	APP'D			
22/06/00	XDJ	1	22/06/00	PR	Added HAT CLAIMS 41 to 44 / Scale change to 1:20,000				