

Assessment Report
On

Hit 1-30 Quartz Claims
NTS 105-P-5

For
Eagle Plains Resources

By
Bernie Kreft

November 24, 1999

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History And Previous Exploration

The majority of previous work in this area was directed towards assessing a copper-tungsten skarn located just inside the NWT border. This showing was initially worked by a subsidiary of Cyprus Mining Corp. during 1970-71. It was re-staked in 1982 by a joint venture between Amax Mining and Canada Tungsten, who continued exploration until the end of 1984. The Amax/Cantung work resulted in the staking of six claims in the Yukon, over what is now the Hit claims main zone area. Documentation of the historical work is not in the public domain.

The area was re-assessed by the writer for its gold potential during the summer of 1998. This work consisted of three, one day visits and a 6-day program, which were used to follow up on a RGS Au stream sediment anomaly. The 1998 program defined 3 areas worthy of follow-up (in order of importance): Gully Zone, Discovery Zone and Ridge Zone.

Follow-up 1st phase work in 1999 was conducted from July 3rd to the 9th and on August 5th, and was concentrated on the high-grade Gully Zone, with some prospecting completed in the Discovery and Ridge zone areas, as well as some follow-up on the newly discovered McDame Zone. A small amount of claim staking was also completed on the 5th of August.

At the conclusion of the 1st phase, a decision was made to drill test the Gully Zone. This work was completed during the period August 22nd to the 27th and consisted of two holes from one set-up. Results were disappointing, with a maximum of 2566 ppb Au over 0.9 metres.

Location And Access

The property is located in the central Yukon Territory, 27 kilometres N.N.E. of MacMillan Pass, just west of the Yukon/NWT border. The Mactung tungsten skarn deposit is situated approximately 23 kilometres to the south. Access was by helicopter from Ross River, a distance of 210 kilometres. Helicopter charter services are also occasionally available during the summer months at MacPass. Topography varies from moderate to extreme, with several areas impassable due to cliffs and frequent rock and/or snow avalanches.

Regional Geology

The Hit Project is located within the Selwyn Basin, a large sedimentary depocenter active from the Precambrian to the Mississippian. The mid-late Cretaceous Tombstone Suite (90-92 Ma), consisting of stocks, sills and dykes of granitic composition has been emplaced within these sediments. Tombstone Suite intrusives are commonly associated with bulk-tonnage gold targets within an east-southeast trending belt which extends from north of Dawson to the Yukon/NWT border, a total distance of almost 600 kilometres. Significant Yukon targets hosted by, or associated with, the Tombstone Suite include: Brewery Creek, Dublin Gulch, McQuesten/Wayne and Scheelite Dome. The granitic intrusion located at the Hit property likely belongs to the Tombstone Suite; age dating is currently in progress and should provide a definitive answer.

Property Geology

Strata underlying the claims consists of Cambrian aged black shale, argillaceous limestone, siltstone, calcareous siltstone, green silty slate and rare quartzite, belonging to the Road River Formation.

These sediments generally strike NW/SE and dip steeply to the southwest. The intrusion of the Hit pluton extensively hornfelsed the country rock, resulting in the development of widespread skarn and calc-silicate minerals/effects as well as numerous gossans.

Faulting is common in the area of the Hit Claims. The main structural features are NW trending normal faults and joint sets, the development of which likely occurred during the emplacement of the Hit Pluton. Post-dating the NW trending set are several NE trending cross-faults. These faults commonly exhibit weak epithermal characteristics, and often contain anomalous gold values. A third set of faults consists of small-scale, flat lying structures. This type is best recognized in the area of the main showing and has caused several slight displacements of the auriferous beds.

The Hit pluton contains several phases, which vary from a fine-grained granodiorite border to a coarse porphyritic core. Weak porphyry style molybdenum mineralization has been noted within the core. Alteration is limited to bleaching, and the development of trace sericite along vein margins and adjacent to fractures. Contacts with the surrounding sediments are steep where exposed.

Mineralization

Sampling in 1998 at the Gully Zone returned a weighted average of 7.85 g/t Au over 7.0 metres. Mineralization consists of extremely fine disseminated arsenopyrite within calcareous (albitized?) siltstone. Stream sediment (silt) samples taken 80 metres downstream from the showing returned reproducible values of up to 606 ppb Au. A value of 10834 ppb Au in silt was returned from a stream located 150 metres along strike to the south-east of the showing, while a value of 1015 ppb Au in silt was returned from a stream located approximately 1600 metres along strike to the north-west of the showing.

The 1999 1st phase program consisted of prospecting in conjunction with rock, silt and soil sampling. This work was designed to cover the favourable calcareous siltstone horizon along the northeast edge of the pluton, where the sediments dip towards the contact. Time was also spent at the Gully Zone to try and further define the existing mineralization. Rock sampling there showed that mineralization pinches out rapidly up-dip, and does not reach the surface. Soils taken along the top edge of the gully (approximately 20 metres up-dip) were not anomalous, and confirm that the mineralization pinches out up-dip. Work along strike of the showing in both directions was mostly un-successful. One new occurrence, geologically mirroring the Gully Zone was discovered at the head of 10834 ppb Au creek. Grab samples there returned up to 5750 ppb Au, while a 0.9 metre chip returned 3919 ppb Au. An abundance of mineralized talus, coupled with the fact that the occurrence is situated within 15 metres of the pluton suggests that much of the occurrence is eroded and there is little size potential. No other similar occurrences were noted, and the remainder of the

silt and soil samples were not anomalous in the main pathfinder elements (As/Au). Several soils were highly anomalous in calcium; it is thought that these samples represent the unmineralized surface expression of the important calcareous horizon.

Work approximately 1.0 kilometre to the northwest of the Gully Zone encountered a cluster of 9 soil samples grading between 101 ppb Au and 1455 ppb Au (McDame Zone) along with highly anomalous arsenic and antimony. The only anomalous rock sample (2506 ppb Au) from this area was a grab of fine-grained sericite altered granite float cut by a narrow calcite-arsenopyrite vein. The anomalous soil samples are aligned parallel to a northeast trending gully which is likely a fault structure. Geology in this overburden and talus covered area was defined from soil sample oversize chips, which consisted of an approximate 50/50 split of fine-grained granite and black shale.

The Discovery Zone is an area of highly anomalous gold in talus fines (max. 1097 ppb Au) associated with skarn and intrusive hosted bedrock gold mineralization. Follow-up in this area showed that the highly anomalous talus fine samples are located directly downslope of small massive sulphide skarn pods. Work in the vicinity of the Ridge Zone (1.3 g/t Au over 6.0m) was inconclusive due to thick granite talus covering possible strike extensions to the showing.

Drill testing of the Gully Zone was undertaken during the period August 22nd to August 27th and consisted of a one set-up, two hole program designed to test the showing at depth, approximately 30 metres along strike to the northwest. Although the favorable calcareous horizon was intersected, results were disappointing, with a maximum value of 2566 ppb Au over a 0.9 metre interval of brecciated and pyrrhotite mineralized limestone (highly calcareous siltstone?) cut by carbonate veins.

Conclusions

The main economic potential on the property is found associated with mineralization of a probable replacement style within calcareous siltstone along the northeast edge of the Hit pluton. Sediments in this area strike parallel to, and dip steeply towards, the intrusive contact. Extensive prospecting and sampling showed that mineralization at the Gully Zone is strata related, and pinches out in an up-dip direction. The only new showing encountered that is similar in nature to the Gully Zone was found to be almost completely eroded. No other anomalous samples indicative of Gully Zone type mineralization were returned. Several soils overlying the siltstone unit were found to be highly anomalous in calcium, it is thought these samples represent the un-mineralized surface expression of the favourable calcareous horizon. Poor drilling results suggest that controls on mineralization are more than a simple replacement, and probably include a significant structural component. Talus and overburden cover is a hindrance to exploration at the McDame and Ridge Zones.

Recommendations

No further work is recommended for the Gully, or Discovery Zone areas. Trenching should be completed at the McDame Zone to try and define a bedrock source for the high gold in soil values encountered there. Pending good results at the McDame Zone, trenching should also be completed at the Ridge Zone.

Certification

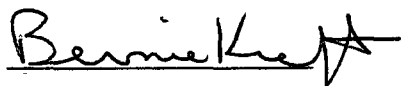
I, Bernie Kreft, was present and witnessed the exploration work described herein. I have twelve years experience prospecting in the Yukon.

This report is based on fieldwork conducted or witnessed by myself.

This report is based on work completed on and in the vicinity of the Hit 1-8 quartz claims.

This work was completed on July 3rd to the 9th, August 5th and August 22nd to the 27th.

Respectfully Submitted,

A handwritten signature in cursive script, reading "Bernie Kreft", with a stylized flourish at the end.

Bernie Kreft

Rock Sample Descriptions

- BKHT-1 > Grab limonitic, manganese stained fine grained granite min with trace diss po
- BKHT-2 > grab as above
- BKHT-3 > grab thin bedded calcareous siltstone min with trace diss po
- BKHT-4 > grab as above
- BKHT-5 > grab as above, with weak cross-cutting Po mineralized fractures
- BKHT-6 > grab as per -3
- BKHT-7 > grab garnet skarn developed within calcareous siltstone
- BKHT-8 > grab granite cut by vuggy crystalline Q.V. granite is sericite altered adjacent to the vein
- BKHT-9 > grab of sericitic and limonitic granite
- BKHT-10 > grab of 1mm wide Qtz-As vein cutting 3cm wide sample of sericitic granite
- BKHT-11 > grab fresh granite cut by As-Py mineralized fracture
- BKHT-12 > 0.3m chip granite cut by several sericite altered and Po mineralized fractures
- BKHT-13 > grab granite cut by limonitic and manganese stained and Pb-As min fracture
- BKHT-14 > grab as above
- BKHT-15 > grab border phase granite cut by several narrow Po veins
- BKHT-16 > grab brecciated shale cemented with qtz and calcite @ 1% fine diss Po in cement
- BKHT-17 > grab as above cut by a 1mm chalcedonic qtz vein
- BKHT-18 > grab banded siltstone min with trace diss Po
- BKHT-19 > grab as above
- BKHT-20 > grab as above
- BKHT-21 > limonitic qtz vein cutting black shale
- BKHT-22 > as above, shale is silicified
- BKHT-23 > 12 cm chip across fine grained sericitic granitic dyke? cut by 3 fractures min with traces of a bright green weathering sulphide
- BKHT-24 > grab as above with trace arsenopyrite
- BKHT-25 > 1.0m chip across qtz calcite veined dyke (4 x 0.5cm veins) sericitic adjacent to veins traces of green weathering sulphide diss in veins
- BKHT-26 > 5.0m chip of dyke at above, vein material purposely left out of sample
- BKHT-27 > grab limonitic black shale
- BKHT-28 > grab brecciated calcareous siltstone cemented with calcite
- BKHT-29 > grab banded calcareous siltstone mineralized with trace diss po
- BKHT-30 > grab as above with 1% po
- BKHT-31 > grab banded siltstone with around 0.5% diss po
- BKHT-32 > grab as above
- BKHT-33 > grab limonitic black shale with 0.5% diss po
- BKHT-34 > thin bedded shale and siltstone with 0.5% diss po
- BKHT-35 > rep grab small po/cu skarn pod with 20% sulphides
- BKHT-36 > 2.0m chip hflsd siltstone min with about 2.5% po along fractures
- BKHT-37 > rep grab as per BKHT-35
- BKHT-38 > rep grab clay and sericite altered qtz ppy dyke
- BKHT-39 > 0.3m chip across heavily calcite veined calcareous siltstone at the Gully Zone trace scorodite

BKHT-40 > 0.25m chip across calcareous siltstone with trace calcite veining at the Gully Zone trace scorodite

BKHT-41 > 1.0m chip across the highest exposure (up-dip) of scorodite stained calcareous siltstone at the Gully Zone

BKHT-42 > 1.3m chip across calcareous siltstone unit 1.5m directly up-dip from BKHT-41

BKHT-43 > 1.3m chip across calcareous siltstone with possible weak scorodite stain

BKHT-44 > grab scorodite stained calcareous siltstone

BKHT-45 > 0.9m chip as above, with minor calcite veining

BKHT-46 > grab moderately calcite veined scoroditic calcareous siltstone

BKHT-47 > 1.0m chip calcareous siltstone approx 30m on strike of 43-45

BKHT-48 > grab thin-bedded calcareous siltstone with 0.5% diss po

BKHT-49 > grab as above

BKHT-50 > grab as above

BKHT-51 > grab as above

PCHT-1 > grab thin bedded calcareous siltstone with trace scorodite

PCHT-2 > grab as above

PCHT-3 > grab as above with abundant scorodite

PCHT-4 > grab as above with trace scorodite

BHIT-1 > Pyroxene skarn with 5% diss po

BHIT-2 > grab black shale cut by minor vuggy qtz vein

BHIT-3 > grab brx shale cemented by qtz and calcite

BHIT-4 > grab limonitic fine-grained intrusive with trace diss po

BHIT-5 > grab grey coloured fine-grained granitic dyke min with trace diss po

BHIT-6 > black shale cut by a fine stockwork of micro qtz veinlets trace diss py/po in the veins

BHIT-7 > grab as above fewer veins but they are larger

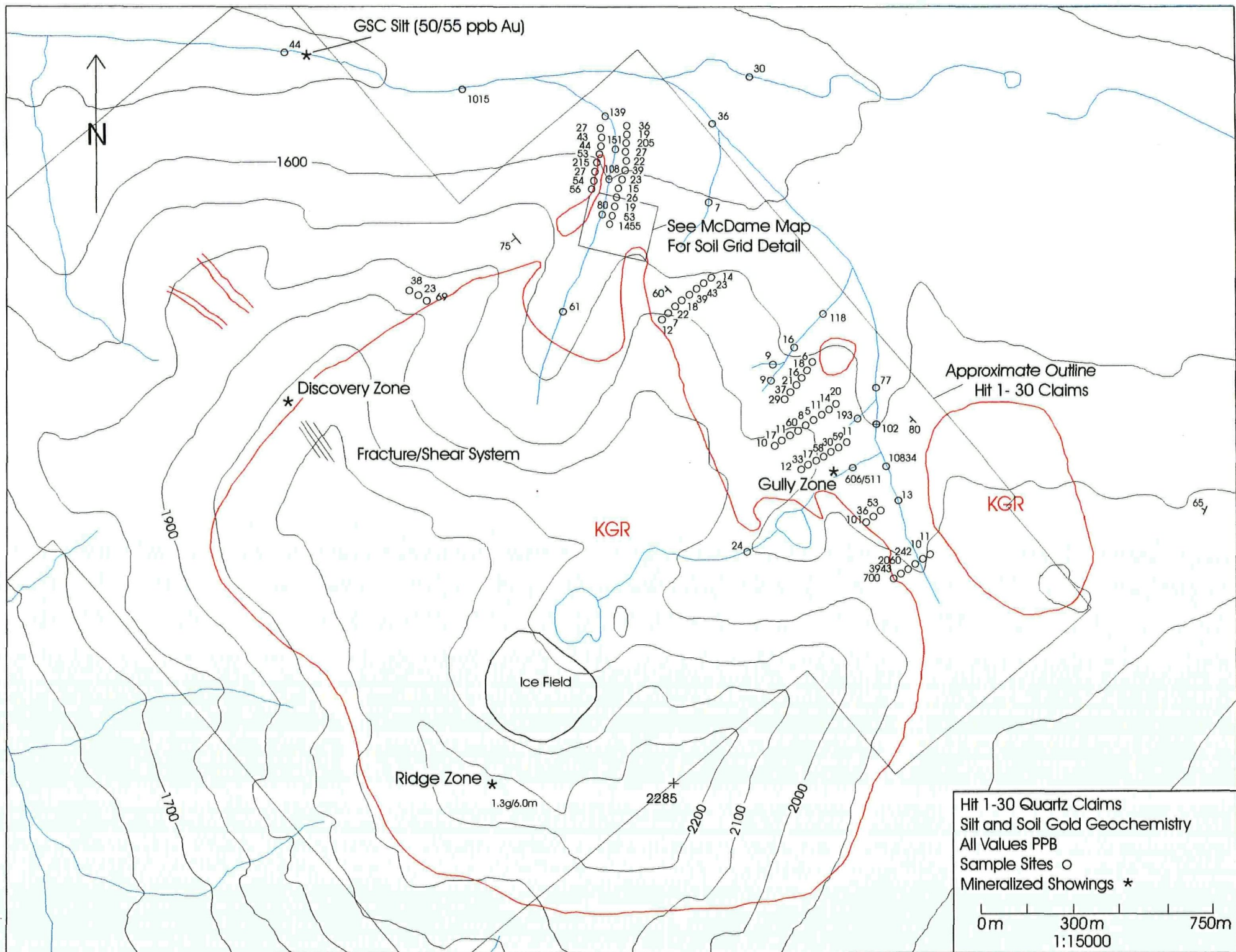
BHIT-8 > silicified black shale with diss and vein type py to 7.5% some of diss py occurs in select beds

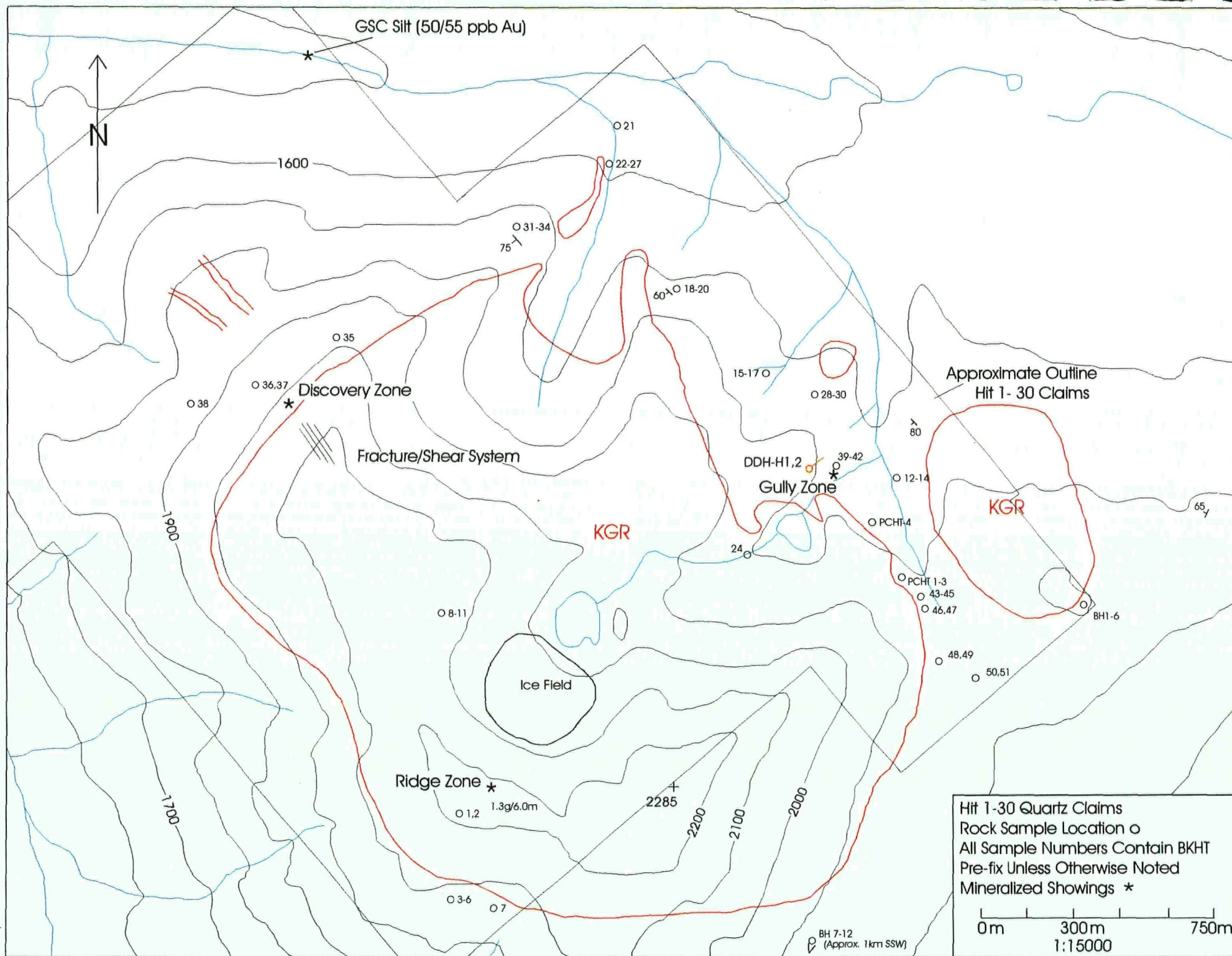
BH-1 to 12 > grabs of calcareous siltstone

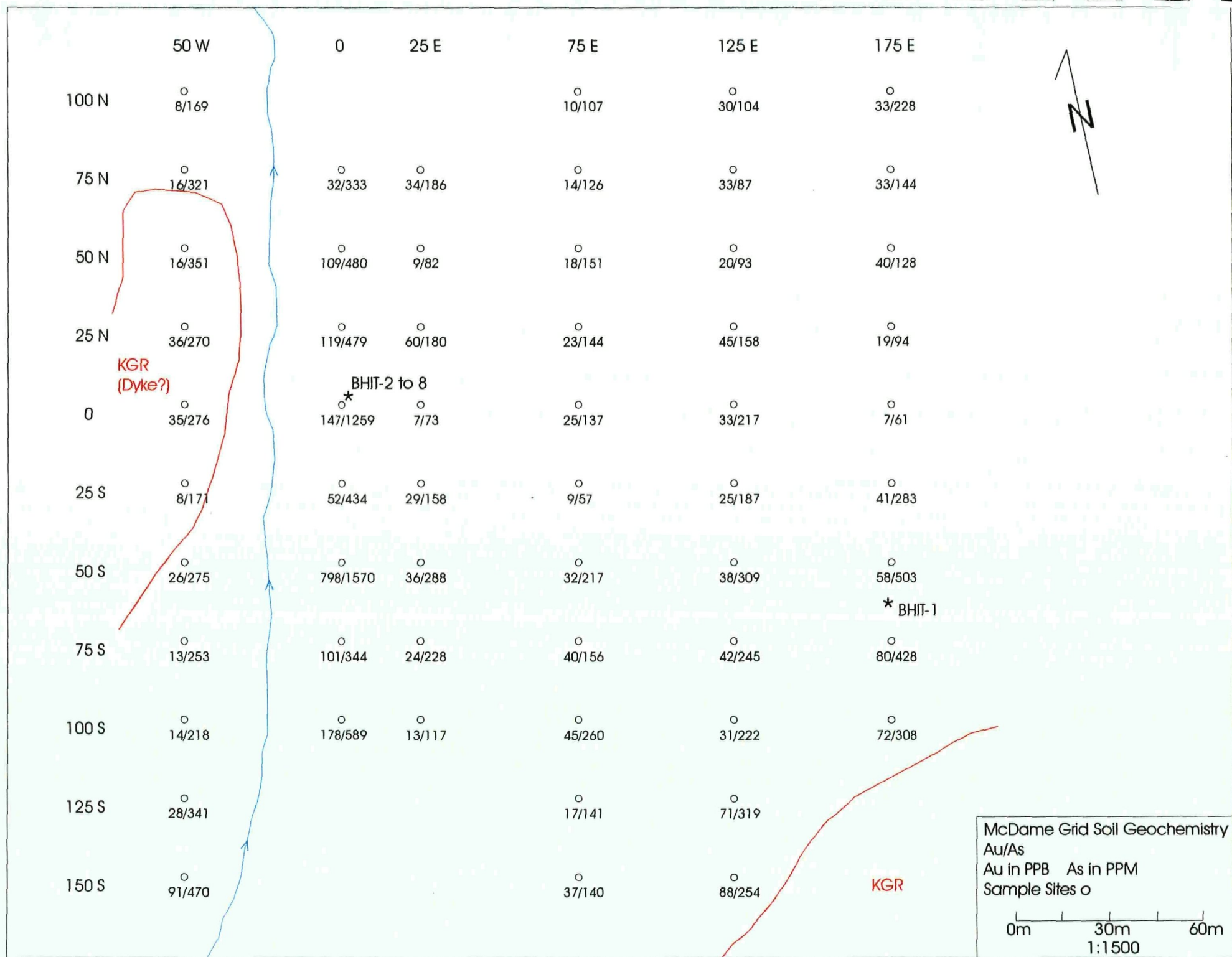
PHS series of samples are soils

BKHS series of samples are silts

Grid coordinates are soils from the McDame Zone







Costs

Hit 1st Phase

Truck Costs (1290 km x 0.42/km)	=	\$579.73
Food and Camp Supplies 19.5 man days x \$35/day	=	\$730.28
Wages P.Christensen 9.5 days x \$150/day	=	\$1524.75
Wages B.Kreft 10 days x \$375/day	=	\$4012.50
Helicopter Charter	=	\$9722.49
Receiver General (claim applications)	=	\$425.00
Claim Posts	=	\$152.00
Assay Costs	=	\$5559.92
Dorey Enterprises (posts and Jet-B hauling)	=	\$470.80
T.Termuende (1 day x \$425/day)	=	\$425.00
Wages B.Kreft (report prep)	=	\$802.50
Welcome Inn (lodging one night)	=	<u>\$101.65</u>
TOTAL (GST Inc.)	=	\$24506.62

Hit Drill Phase

Wages B.Kreft 6 days x \$375/day	=	\$2407.50
Wages P.Christensen 6 days x \$150/day	=	\$963.00
Wages B.Kreft report prep	=	\$802.50
Truck Rental 1176km x \$0.42/km	=	\$528.49
Dorey Developments (Jet B, Diesel, Expediting)	=	\$3558.32
NJ Sisson (drill pad lumber)	=	\$567.62
Yukon Tire Centre (propane)	=	\$27.82
Career Industries (core boxes 2 nd order)	=	\$182.78
Eileen's Place (lunches)	=	\$11.77
Various Supplies (nails, extra food etc)	=	\$310.01
NAL (91 x 30g Au fire assay)	=	\$1460.55
Honda Generator (0.5 month x \$400/month)	=	\$200.00
Hand Held Radios(0.5 month x \$150/month x 2)	=	\$150.00
Camp Materials (0.5 month x \$500/month)	=	\$250.00
5-ton trailer (0.5 month x \$1000/month)	=	\$500.00
Falcon Diamond Drilling	=	\$19230.34
Chuck Downie (includes RV rental and expenses)	=	\$5597.10
Graham Davidson	=	\$3412.52
Fireweed Helicopters	=	\$17173.50
Materials	=	\$201.11
Groceries	=	\$965.45
Miscellaneous	=	\$165.04
Career Industries (core boxes 1 st order)	=	<u>\$502.37</u>
TOTAL	=	\$59167.79

GRAND TOTAL = \$83674.41

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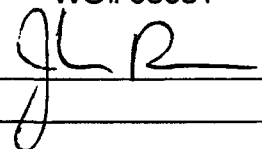
Certificate of Analysis

Page 1

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WO# 05681

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Sample #	Au ppb
r BKHT-1	10
r BKHT-2	5
r BKHT-3	6
r BKHT-4	6
r BKHT-5	7
r BKHT-6	10
r BKHT-7	5
r BKHT-8	6
r BKHT-9	10
r BKHT-10	9
r BKHT-11	27
r BKHT-12	8
r BKHT-13	162
r BKHT-14	<5
r BKHT-15	8
r BKHT-16	11
r BKHT-17	7
r BKHT-18	7
r BKHT-19	11
r BKHT-20	<5
r BKHT-21	<5
r BKHT-22	7
r BKHT-23	<5
r BKHT-24	2506
r BKHT-25	149
r BKHT-26	6
r BKHT-27	<5
r BKHT-28	<5
r BKHT-29	14
r BKHT-30	7

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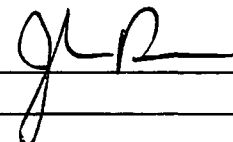
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Sample #	Au ppb
r BKHT-31	7
r BKHT-32	7
r BKHT-33	6
r BKHT-34	11
r BKHT-35	265
r BKHT-36	52
r BKHT-37	34
r BKHT-38	39
r BKHT-39	4084
r BKHT-40	>7000
r BKHT-41	6173
r BKHT-42	37
r BKHT-43	18
r BKHT-44	5079
r BKHT-45	3919
r BKHT-46	5196
r BKHT-47	31
r BKHT-48	24
r BKHT-49	8
r BKHT-50	6
r BKHT-51	7
r PCHT-1	571
r PCHT-2	5750
r PCHT-3	5263
r PCHT-4	292
ss BKHS-1	33
ss BKHS-2	32
ss BKHS-3	23
ss BKHS-4	23
ss BKHS-5	9

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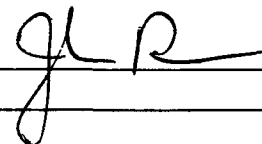
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	Sample #	Au ppb
ss	BKHS-6	118
ss	BKHS-7	16
ss	BKHS-8	9
ss	BKHS-9	7
ss	BKHS-10	139
ss	BKHS-11	151
ss	BKHS-12	108
ss	BKHS-13	80
ss	BKHS-14	193
s	PHS-1	700
s	PHS-2	3943
s	PHS-3	2060
s	PHS-4	242
s	PHS-5	10
s	PHS-6	11
s	PHS-7	101
s	PHS-8	36
s	PHS-9	53
s	PHS-10	11
s	PHS-11	59
s	PHS-12	30
s	PHS-13	58
s	PHS-14	17
s	PHS-15	11
s	PHS-16	60
s	PHS-17	8
s	PHS-18	5
s	PHS-19	11
s	PHS-20	14
s	PHS-21	20

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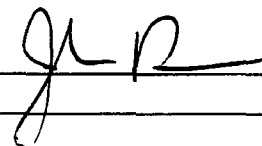
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	Sample #	Au ppb
s	PHS-22	6
s	PHS-23	18
s	PHS-24	16
s	PHS-25	21
s	PHS-26	37
s	PHS-27	29
s	PHS-28	12
s	PHS-29	7
s	PHS-30	22
s40	PHS-31	18
s40	PHS-32	39
s40	PHS-33	43
s	PHS-34	23
s	PHS-35	14
s	PHS-36	36
s	PHS-37	19
s	PHS-38	205
s	PHS-39	27
s	PHS-40	22
s	PHS-41	39
s	PHS-42	23
s	PHS-43	15
s40	PHS-44	26
s	PHS-45	19
s40	PHS-46	53
s	PHS-47	1455
s	PHS-48	56
s	PHS-49	54
s	PHS-50	27
s	PHS-51	215

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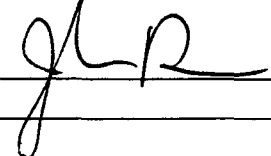
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	Sample #	Au ppb
s	PHS-52	53
s	PHS-53	44
s	PHS-54	43
s	PHS-55	27
s	PHS-56	17
s	PHS-57	10
s	PHS-58	69
s	PHS-59	23
s	PHS-60	38
s	PHS-61	33
s	PHS-62	12
s	PCSS-1A	27

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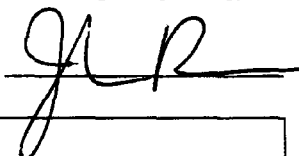
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Sample #		Au grav oz/ton
p	BKHT-40	0.320

CERTIFICATE OF ANALYSIS

IPL 99G0610

2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: WO#05681

132 Samples
132=Pulp

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Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
BKHS- 1	P	0.1	24	57	66	101	<	<	2	<	<	5.7	10	19	196	9	38	47	350	29	125	1	4	0.04	1.98	1.49	1.80	0.71	0.17	0.02	0.12
BKHS- 2	P	<	22	51	64	100	<	<	3	<	<	5.3	10	16	196	<	39	50	336	32	120	1	4	0.05	1.98	1.45	1.89	0.75	0.20	0.02	0.12
BKHS- 3	P	<	19	53	63	80	<	<	2	<	<	4.4	9	16	182	<	36	44	340	35	112	1	3	0.05	1.76	1.38	1.67	0.66	0.18	0.02	0.11
BKHS- 4	P	<	20	61	59	87	<	<	1	<	<	4.3	8	15	176	6	35	42	309	38	118	1	4	0.04	1.97	1.62	1.63	0.65	0.16	0.02	0.14
BKHS- 5	P	0.1	98	54	150	103	<	<	3	<	<	4.5	18	48	171	6	56	87	380	41	191	1	4	0.17	2.87	1.45	2.70	1.03	0.46	0.04	0.12
BKHS- 6	P	0.3	111	61	208	197	17	<	3	<	3	5.7	20	90	201	12	55	134	436	32	205	2	4	0.10	2.40	4.17	2.98	0.90	0.28	0.04	0.25
BKHS- 7	P	0.3	72	41	158	79	<	<	2	<	<	3.2	12	52	167	<	40	69	264	25	329	1	2	0.12	2.28	1.1x	2.01	0.83	0.31	0.04	0.18
BKHS- 8	P	0.7	43	15	110	51	<	<	3	<	<	3.2	7	30	152	<	25	41	154	16	433	1	1	0.07	1.47	1.9x	1.23	0.56	0.17	0.04	0.22
BKHS- 9	P	0.3	27	66	79	65	<	<	1	<	<	4.8	11	27	152	<	44	55	272	39	173	1	3	0.12	1.88	2.13	1.85	0.68	0.30	0.04	0.12
BKHS-10	P	0.9	171	241	381	687	82	<	3	<	<	7.0	22	100	172	7	54	97	974	36	111	2	6	0.05	2.18	1.47	3.68	0.93	0.22	0.03	0.24
BKHS-11	P	1.0	200	235	411	740	81	<	5	<	<	7.7	22	112	171	<	55	99	964	37	103	2	6	0.06	2.23	1.45	3.88	0.94	0.22	0.03	0.24
BKHS-12	P	0.7	180	247	352	636	83	<	3	<	<	6.5	22	92	181	<	55	106	947	37	110	2	6	0.06	2.40	1.27	3.69	0.96	0.23	0.03	0.16
BKHS-13	P	0.6	140	260	214	571	89	<	2	<	<	4.7	17	26	113	7	53	67	888	36	84	1	5	0.07	2.10	1.01	2.87	0.91	0.23	0.03	0.10
BKHS-14	P	0.4	71	40	128	181	20	<	2	<	<	4.3	14	40	154	<	34	90	286	28	187	2	3	0.08	2.81	2.33	2.52	0.90	0.18	0.09	0.17
BKHT- 1	P	<	27	39	87	91	<	<	1	<	<	4.6	21	15	97	<	98	109	362	23	79	8	5	0.28	2.98	1.34	3.53	1.09	0.68	0.25	0.10
BKHT- 2	P	<	75	40	68	75	<	<	3	<	<	5.0	28	31	121	<	141	117	298	29	92	6	5	0.32	2.60	1.18	3.37	1.18	1.04	0.27	0.12
BKHT- 3	P	<	65	10	14	85	<	<	3	<	<	3.1	8	33	25	6	84	14	41	16	150	3	1	0.05	2.66	2.23	0.86	0.08	0.06	0.32	0.11
BKHT- 4	P	0.2	32	94	134	114	<	<	4	<	<	3.9	12	38	45	<	116	15	50	11	148	3	<	0.07	3.14	2.63	2.09	0.11	0.08	0.36	0.04
BKHT- 5	P	<	24	24	18	131	<	<	2	<	<	2.4	5	20	41	<	74	9	46	13	167	2	<	0.04	3.09	2.72	0.57	0.07	0.05	0.22	0.09
BKHT- 6	P	0.1	85	24	18	97	<	<	6	<	<	3.2	11	45	17	<	83	6	22	9	134	2	<	0.04	3.25	2.39	2.18	0.05	0.04	0.39	0.05
BKHT- 7	P	<	37	19	25	29	<	<	2	<	<	2.9	6	9	16	<	38	12	508	12	58	4	<	0.02	0.90	6.71	2.04	0.10	0.03	0.06	0.07
BKHT- 8	P	0.8	56	314	444	29	14	<	2	<	<	10.5	9	13	49	5	84	7	2411	24	31	7	4	<	0.34	4.30	1.66	0.47	0.18	0.02	0.07
BKHT- 9	P	3.5	136	635	82	71	403	<	5	<	<	3.0	4	8	98	<	101	42	117	44	20	9	7	0.04	1.07	0.32	2.32	0.44	0.35	0.02	0.11
BKHT-10	P	<	34	48	121	52	<	<	4	<	<	4.3	16	20	276	8	132	82	419	43	42	9	3	0.23	1.79	1.05	2.52	1.07	0.68	0.12	0.09
BKHT-11	P	4.1	544	3150	1009	191	0.1x	<	55	<	14	10.2	10	17	96	<	136	38	746	33	21	6	4	0.06	0.92	0.88	2.66	0.54	0.32	0.04	0.07
BKHT-12	P	0.1	23	71	53	54	22	<	3	<	<	3.0	7	18	206	<	105	40	148	22	55	4	2	0.14	1.35	1.21	1.12	0.37	0.29	0.11	0.11
BKHT-13	P	0.9	131	131	60	36	12	<	1	<	19	2.9	14	41	99	7	80	18	80	76	96	3	1	0.09	0.98	1.39	2.29	0.15	0.06	0.13	0.09
BKHT-14	P	<	27	31	38	38	<	<	1	<	<	4.3	10	37	221	<	103	61	282	27	52	5	2	0.14	1.45	2.63	1.73	0.74	0.40	0.13	0.09
BKHT-15	P	0.2	49	43	39	33	<	<	2	<	<	2.8	21	17	72	10	65	46	108	24	61	6	1	0.14	1.31	1.12	2.58	0.48	0.34	0.16	0.10
BKHT-16	P	0.3	30	21	41	24	<	<	5	<	<	3.8	7	15	46	<	81	19	96	17	180	4	1	0.03	0.63	9.23	0.79	0.11	0.02	0.07	0.89
BKHT-17	P	0.2	22	24	35	16	<	<	5	<	<	1.1	5	14	48	10	76	18	119	17	198	3	1	0.02	0.35	12x	0.63	0.13	0.03	0.08	0.84
BKHT-18	P	0.2	71	10	530	96	<	<	4	<	<	23.3	5	17	44	<	100	23	52	20	324	5	<	0.08	2.90	4.18	0.55	0.16	0.13	0.17	0.13
BKHT-19	P	0.3	95	9	44	140	<	<	4	<	<	4.7	13	45	186	<	53	42	73	13	318	4	1	0.09	5.27	5.33	2.20	1.65	0.97	0.09	0.07
BKHT-20	P	0.3	49	10	30	50	<	<	5	<	<	2.3	5	27	99	<	92	23	52	14	104	4	<	0.05	1.48	2.41	0.71	0.22	0.08	0.10	0.38
BKHT-21	P	0.7	14	8	67	40	<	<	6	<	<	2.3	2	18	79	6	189	91	44	4	9	14	1	<	0.21	0.18	1.03	0.05	0.08	0.01	0.05
BKHT-22	P	1.0	19	110	29	70	25	<	6	<	<	2.3	1	14	126	<	184	281	21	18	32	6	3	<	0.30	1.21	0.75	0.02	0.12	0.02	0.57
BKHT-23	P	<	19	23	70	73	<	<	3	<	<	4.0	15	24	104	<	77	49	479	31	155	12	12	0.01	1.31	4.63	3.29	0.86	0.21	0.04	0.11
BKHT-24	P	0.2	7	22	55	3170	11	<	3	<	<	2.5	6	9	55	<	55	15	2063	9	442	7	4	<	0.23	1.7x	2.37	1.38	0.10	0.01	0.05
BKHT-25	P	0.1	21	18	77	959	7	<	2	<	<	4.1	18	33	149	<	103	91	485	27	107	18	9	0.16	2.21	2.40	3.48	1.40	0.63	0.11	0.10

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 9.99 5.00 5.00
 Method ICP
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

CERTIFICATE OF ANALYSIS

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INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: WO#05681

132 Samples
132=Pulp

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Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
BKHT-26	6	P	<	22	19	77	107	<	<	2	<	<	4.2	19	34	358	<	111	109	422	28	84	15	7	0.23	2.59	1.55	3.26	1.53	0.70	0.14	0.10
BKHT-27	6	P	1.3	19	8	31	26	<	<	3	<	<	2.1	2	11	130	<	171	116	49	3	21	5	1	0.01	0.16	0.43	0.70	0.06	0.05	0.01	0.21
BKHT-28	6	P	0.2	6	<	31	166	<	<	1	<	<	1.2	2	5	20	9	17	27	85	4	134	1	1	0.01	6.07	16x	0.38	0.70	0.21	0.06	0.02
BKHT-29	11	P	0.7	44	18	45	61	<	<	6	<	<	4.9	6	26	26	<	50	13	65	43	296	2	<	0.01	2.06	13x	1.64	0.28	0.04	0.15	1.78
BKHT-30	7	P	0.4	35	44	28	112	<	<	4	<	<	3.5	4	16	15	<	36	12	38	34	385	2	<	0.02	3.82	8.85	0.77	0.21	0.05	0.30	1.70
BKHT-31	7	P	0.3	45	18	57	104	<	<	6	<	<	5.0	11	36	73	<	93	47	47	15	147	9	1	0.06	3.18	2.56	1.28	0.40	0.23	0.27	0.09
BKHT-32	7	P	0.3	42	40	90	73	<	<	2	<	<	5.0	8	24	51	<	95	33	53	9	113	5	1	0.06	2.60	2.14	1.34	0.38	0.17	0.25	0.10
BKHT-33	6	P	0.3	37	19	37	111	<	<	7	<	<	3.3	12	42	60	<	92	25	48	6	133	9	1	0.06	2.95	1.90	2.06	0.38	0.22	0.26	0.03
BKHT-34	11	P	0.3	60	30	76	84	<	<	2	<	<	4.9	7	24	42	7	89	20	38	11	108	4	<	0.04	2.79	2.09	1.60	0.20	0.09	0.27	0.08
BKHT-35	265	P	3.5	1273	13	69	<	<	<	1	<	2282	15.0	67	146	10	<	44	76	1108	<	41	5	<	0.02	1.43	7.42	11x	1.03	0.16	0.02	0.09
BKHT-36	51	P	0.1	72	22	48	144	<	<	2	<	16	4.0	8	27	62	<	90	44	235	31	99	4	1	0.10	2.21	2.15	1.56	0.29	0.11	0.09	0.15
BKHT-37	34	P	1.2	3593	28	136	66	<	<	<	<	13.4	34	53	15	<	26	20	90	13	38	5	<	0.01	0.87	1.48	14x	0.05	0.01	0.02	0.29	
BKHT-38	39	P	1.0	153	110	207	506	221	<	2	<	43	6.4	10	89	5	5	89	116	69	41	8	4	9	<	0.72	0.49	5.26	0.04	0.01	0.01	0.15
BKHT-39	1081	P	0.4	88	6	84	4767	112	<	4	<	7	4.0	3	16	280	5	44	80	407	15	239	3	2	0.01	1.01	9.53	1.23	2.30	0.08	0.12	0.08
BKHT-40	1000	P	0.5	42	11	113	5820	219	<	2	<	7	3.3	4	13	23	<	108	38	562	14	122	5	3	<	0.59	8.76	1.15	0.62	0.09	0.03	0.13
BKHT-41	613	P	0.7	48	16	97	6515	102	<	5	<	<	3.5	5	23	24	<	50	86	485	19	183	8	5	<	0.44	18x	1.73	1.29	0.09	0.01	0.14
BKHT-42	37	P	0.5	35	8	16	157	<	<	4	<	<	<	2	10	74	<	25	9	68	15	388	5	<	0.03	1.62	17x	0.31	0.27	0.05	0.19	0.10
BKHT-43	18	P	0.3	49	21	47	111	<	<	3	<	<	3.6	5	19	47	<	37	18	48	15	223	5	<	0.04	1.93	8.56	0.92	0.35	0.13	0.09	0.14
BKHT-44	5079	P	1.9	50	13	194	5847	73	<	7	<	<	2.9	8	44	36	<	52	189	701	26	240	6	8	<	0.94	17x	2.39	3.05	0.12	0.02	0.23
BKHT-45	3919	P	1.7	46	13	123	5069	71	<	3	<	<	4.0	5	28	31	<	64	93	673	15	162	7	5	<	0.59	12x	1.82	2.06	0.12	0.02	0.16
BKHT-46	1096	P	1.5	17	114	56	4119	146	<	9	<	<	2.8	5	16	7	7	49	29	1085	17	95	9	3	<	0.27	22x	1.46	0.82	0.06	0.01	0.09
BKHT-47	31	P	0.4	34	17	19	112	<	<	3	<	<	2.3	4	11	77	<	41	25	49	17	197	5	1	0.05	1.71	6.54	0.50	0.45	0.18	0.08	0.13
BKHT-48	24	P	0.5	49	20	43	97	<	<	11	<	<	2.9	12	38	77	6	25	18	487	14	313	3	<	0.05	2.36	16x	2.35	0.09	0.03	0.09	0.48
BKHT-49	8	P	0.3	23	20	28	47	<	<	1	<	<	1.4	4	13	231	<	18	10	97	15	307	5	<	0.04	1.32	13x	0.81	3.61	0.06	0.07	0.07
BKHT-50	6	P	0.4	17	17	116	53	<	<	4	<	<	2.9	4	17	75	<	27	25	140	10	260	7	3	0.02	1.52	30x	0.95	0.59	0.04	0.02	0.07
BKHT-51	7	P	0.4	32	16	65	41	<	<	3	<	<	1.7	4	12	24	<	29	17	108	12	377	11	2	0.04	1.12	29x	0.95	0.62	0.01	0.01	0.03
PCHT-1	571	P	0.6	23	15	78	2051	36	<	3	<	<	2.4	6	22	103	6	74	45	163	16	404	8	5	<	0.59	17x	1.51	0.72	0.10	0.01	0.06
PCHT-2	5750	P	4.5	90	6	196	6274	116	<	4	<	<	3.2	5	26	14	<	48	47	785	15	160	9	5	<	0.31	22x	1.62	0.90	0.08	0.01	0.09
PCHT-3	5263	P	1.3	23	12	67	6691	78	<	1	<	<	4.2	4	19	9	<	84	19	671	11	89	4	4	<	0.23	10x	1.25	0.83	0.07	0.01	0.10
PCHT-4	297	P	<	44	2	20	260	<	<	9	<	173	3.0	5	21	47	379	45	50	181	10	94	7	1	0.05	1.51	6.07	1.16	0.72	0.06	0.06	0.05
PCSS-1 A	27	P	0.3	87	106	135	154	<	<	2	<	<	4.5	20	34	159	19	51	79	358	28	22	3	4	0.17	2.42	0.40	3.39	0.67	0.27	0.03	0.11
PHS- 1	100	P	0.6	62	56	107	393	7	<	2	<	<	3.5	12	34	144	15	32	52	310	26	166	2	3	0.09	2.21	3.23	2.11	1.33	0.20	0.04	0.19
PHS- 2	2943	P	1.3	94	36	126	2336	27	<	3	<	<	5.0	13	36	140	7	28	54	385	26	152	2	4	0.06	1.99	3.93	2.85	1.82	0.16	0.04	0.19
PHS- 3	2060	P	0.9	86	36	137	1943	14	<	2	<	<	4.9	16	37	127	7	35	80	450	27	87	2	5	0.07	2.65	1.81	3.68	1.27	0.19	0.05	0.22
PHS- 4	2012	P	0.5	91	30	158	520	8	<	3	<	<	5.7	16	43	243	<	37	104	323	23	77	2	5	0.07	2.88	1.66	3.47	0.88	0.15	0.05	0.27
PHS- 5	17	P	<	26	51	57	93	<	<	<	<	<	3.4	8	17	233	7	42	47	209	38	166	2	6	0.03	2.87	1.37	2.08	0.79	0.18	0.02	0.11
PHS- 6	11	P	0.4	57	114	120	123	<	<	1	<	<	4.3	12	32	232	<	54	57	360	33	158	2	5	0.03	2.88	1.69	2.68	0.87	0.15	0.03	0.12
PHS- 7	101	P	<	93	37	72	161	5	<	<	<	<	3.7	15	28	122	<	49	74	323	36	96	1	4	0.12	2.43	1.37	2.57	0.99	0.24	0.04	0.11
PHS- 8	16	P	<	74	50	76	106	<	<	1	<	<	3.5	15	24	147	9	47	73	344	41	98	1	3	0.14	2.50	1.41	2.46	0.91	0.23	0.05	0.12

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 9999 999 9999 99.9 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 9.99 5.00 5.00
 Method ICP
 —No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

CERTIFICATE OF ANALYSIS

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INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: WO#05681

132 Samples
132=Pulp

Out: Jul 21, 1999 Page 3 of 4
In : Jul 19, 1999 Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
PHS- 9	P 0.2	81	48	78	105	<	<	2	<	<	3.4	15	31	157	9	50	80	335	34	105	1	4	0.15	2.60	1.55	2.56	0.99	0.24	0.05	0.12
PHS-10	P 0.2	41	28	114	68	<	<	<	<	<	5.6	9	27	111	5	28	54	217	25	95	1	1	0.09	1.97	1.83	1.87	0.62	0.07	0.08	0.06
PHS-11	P 0.2	50	29	86	75	<	<	1	<	<	5.1	9	22	119	<	29	64	206	22	89	1	2	0.10	2.08	1.78	1.77	0.80	0.09	0.10	0.08
PHS-12	P 0.4	55	36	98	94	5	<	<	<	<	3.6	12	31	143	9	33	66	248	30	132	1	2	0.11	2.41	1.64	2.12	0.79	0.17	0.08	0.12
PHS-13	P 0.5	62	45	133	119	5	<	2	<	<	4.3	15	36	178	8	46	93	308	31	99	1	3	0.14	2.77	1.25	2.71	1.02	0.18	0.06	0.12
PHS-14	P 0.4	45	39	105	93	<	<	1	<	<	3.2	13	29	148	<	38	71	258	30	79	1	2	0.14	2.31	0.96	2.31	0.79	0.19	0.07	0.11
PHS-15	P 0.7	61	26	98	74	<	<	3	<	<	3.9	8	27	119	<	22	43	286	24	409	2	2	0.05	1.71	1.71	1.86	0.64	0.10	0.06	0.13
PHS-16	P 1.2	67	95	108	72	<	<	<	<	124	4.9	5	19	85	<	16	40	438	18	111	1	1	0.02	1.70	3.19	1.43	0.38	0.03	0.05	0.18
PHS-17	P 0.4	33	26	75	61	<	<	2	<	<	4.7	5	18	98	7	16	37	256	18	356	1	1	0.02	1.59	7.60	1.20	0.44	0.04	0.06	0.09
PHS-18	P 0.4	27	12	44	43	<	<	4	<	<	1.8	3	15	40	<	9	12	95	20	553	1	<	0.01	1.49	211	0.69	0.40	0.03	0.06	0.07
PHS-19	P 0.8	84	34	235	132	<	<	5	<	<	6.7	14	53	116	<	32	141	134	17	287	4	4	0.05	2.89	2.35	2.97	1.54	0.14	0.04	0.11
PHS-20	P 0.6	64	28	143	103	7	<	2	<	<	4.6	11	36	137	<	31	81	166	23	234	3	3	0.07	2.84	2.21	2.35	1.68	0.19	0.06	0.13
PHS-21	P 0.1	33	50	52	109	<	<	1	<	<	4.8	11	15	165	6	37	50	206	34	754	1	4	0.02	3.40	1.98	1.87	0.86	0.26	0.05	0.08
PHS-22	P 0.2	34	54	63	123	<	<	1	<	<	3.6	11	16	176	<	41	60	274	39	543	1	5	0.03	3.59	2.31	2.04	1.01	0.29	0.06	0.08
PHS-23	P 0.4	58	37	157	128	<	<	3	<	<	4.7	12	35	132	7	36	105	236	19	196	3	3	0.07	3.25	1.86	2.68	1.93	0.14	0.04	0.11
PHS-24	P 0.5	71	34	165	110	<	<	1	<	<	4.0	11	36	119	<	30	91	272	20	143	2	3	0.08	2.89	1.79	2.37	1.64	0.10	0.07	0.13
PHS-25	P 0.6	72	35	166	108	<	<	3	<	<	4.4	12	44	134	<	34	92	274	24	162	2	3	0.07	2.72	1.93	2.39	1.53	0.10	0.09	0.16
PHS-26	P 0.5	77	43	251	149	7	<	3	<	3	4.3	16	78	184	9	39	105	293	24	131	2	3	0.06	2.40	1.36	2.75	1.02	0.11	0.07	0.23
PHS-27	P 0.6	84	34	206	116	<	<	3	<	<	5.0	12	50	123	6	30	90	290	23	132	1	2	0.07	2.58	1.61	2.61	0.96	0.12	0.08	0.16
PHS-28	P 1.5	104	35	385	67	<	<	2	<	<	9.8	15	124	94	11	18	47	290	29	183	2	1	0.03	2.11	3.57	4.34	0.39	0.07	0.11	0.33
PHS-29	P 0.3	43	7	97	40	<	<	1	<	<	3.6	5	23	95	<	11	30	110	11	92	2	<	0.03	1.20	2.77	1.11	0.40	0.07	0.05	0.13
PHS-30	P 0.9	147	32	277	84	<	<	2	<	<	7.4	12	56	301	<	28	74	275	21	254	3	3	0.07	2.68	9.16	2.68	1.58	0.30	0.04	0.39
PHS-31	P 1.0	156	32	501	146	<	<	6	<	<	9.3	23	76	137	8	26	115	350	20	244	3	3	0.07	3.75	2.09	4.58	1.08	0.22	0.06	0.26
PHS-32	P 1.0	137	45	381	166	5	<	5	<	<	7.1	20	95	189	<	39	125	362	24	133	3	3	0.06	3.22	2.44	3.84	1.30	0.13	0.04	0.23
PHS-33	P 1.0	108	56	339	178	<	<	3	<	<	5.8	20	102	248	<	49	122	407	29	107	3	3	0.07	2.92	2.34	3.29	1.22	0.07	0.03	0.16
PHS-34	P 0.8	104	29	286	135	<	<	3	<	<	7.9	17	51	90	<	21	56	253	19	133	4	2	0.05	3.46	4.37	1.83	1.13	0.28	0.05	0.16
PHS-35	P 0.6	65	19	150	90	<	<	2	<	<	5.1	9	32	63	<	10	21	205	13	344	2	1	0.02	2.07	121	1.45	0.35	0.13	0.08	0.10
PHS-36	P 0.6	136	69	386	255	37	<	7	<	<	6.1	17	120	371	22	54	127	344	23	167	4	4	0.06	2.52	1.46	3.69	0.89	0.20	0.03	0.32
PHS-37	P 0.8	103	47	351	115	7	<	7	<	<	4.5	8	102	241	<	48	103	162	12	72	2	2	0.01	2.13	2.02	2.92	0.91	0.14	0.02	0.63
PHS-38	P 0.9	84	41	213	926	19	<	7	<	<	4.8	18	101	56	<	27	157	438	23	30	4	6	0.01	0.99	1.40	2.81	0.48	0.06	0.02	0.40
PHS-39	P 4.0	299	74	1440	245	26	<	62	<	<	13.6	25	437	393	13	137	1024	229	25	62	7	7	0.04	2.03	0.79	7.70	0.60	0.27	0.02	0.39
PHS-40	P 2.9	200	84	904	175	18	<	7	<	<	12.1	19	269	377	<	44	198	426	15	73	6	4	0.02	2.61	1.62	4.77	0.62	0.10	0.05	0.34
PHS-41	P 1.1	196	59	795	353	24	<	9	<	<	8.0	24	287	443	<	50	197	403	25	104	4	4	0.06	2.87	0.76	4.64	0.71	0.15	0.02	0.27
PHS-42	P 0.7	85	52	325	259	20	<	6	<	<	5.1	15	94	261	6	42	129	302	16	45	1	2	0.05	2.52	0.47	3.34	0.63	0.11	0.02	0.16
PHS-43	P 0.4	55	44	155	206	7	<	5	<	<	4.8	10	47	524	7	45	126	189	16	70	1	2	0.06	2.72	0.59	3.53	0.60	0.10	0.02	0.10
PHS-44	P 0.9	113	17	337	89	11	<	1	<	<	5.4	7	143	121	<	15	52	243	8	60	2	1	0.02	1.33	1.61	1.35	0.60	0.04	0.04	0.09
PHS-45	P 1.2	120	31	418	101	<	<	4	<	<	6.2	11	231	174	<	27	90	363	16	56	2	2	0.04	2.55	0.92	3.43	3.11	0.05	0.03	0.11
PHS-46	P 0.9	76	49	123	251	7	<	5	<	<	5.3	13	39	182	<	26	56	619	41	76	2	1	0.02	1.40	2.61	2.91	0.32	0.04	0.02	0.18
PHS-47	P 0.6	77	106	216	1733	14	<	17	<	<	8.0	15	66	298	<	55	121	317	20	63	4	2	0.03	2.94	0.32	6.03	0.44	0.09	0.03	0.29

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 9.99 5.00 5.00
Method ICP
—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

CERTIFICATE OF ANALYSIS

iPL 99G0610

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INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: WO#05681

132 Samples
132=Pulp

[061014:10:27:99072199]

Out: Jul 21, 1999
In : Jul 19, 1999

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Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
PHS-48	P	1.5	230	102	424	782	27	<	12	<	<	11.9	45	124	455	6	51	125	454	21	145	8	5	0.06	3.11	1.61	6.48	1.16	0.25	0.06	0.18
PHS-49	P	1.0	219	96	327	716	51	<	9	<	<	8.9	43	108	418	<	47	113	406	19	129	8	5	0.06	2.92	1.37	5.50	0.96	0.27	0.07	0.16
PHS-50	P	0.9	161	80	356	328	15	<	9	<	<	9.2	34	113	570	<	50	129	477	23	120	5	5	0.06	3.27	1.19	5.53	1.02	0.23	0.05	0.18
PHS-51	P	1.0	160	76	485	930	46	<	6	<	<	9.4	32	176	316	13	56	197	1203	52	272	6	8	0.08	3.50	1.88	4.41	1.12	0.25	0.03	0.22
PHS-52	P	1.0	155	64	430	470	25	<	7	<	<	8.7	25	149	444	7	52	149	570	32	132	3	5	0.06	3.12	1.25	4.42	1.08	0.20	0.03	0.19
PHS-53	P	1.0	135	73	307	492	26	<	10	<	<	6.5	22	110	561	<	52	156	427	26	104	3	4	0.06	3.10	0.98	4.31	0.94	0.21	0.03	0.20
PHS-54	P	0.5	95	78	273	356	31	<	5	<	<	5.3	16	85	319	10	51	139	336	26	75	3	4	0.10	2.29	0.77	3.32	0.86	0.19	0.03	0.19
PHS-55	P	0.5	83	51	223	268	16	<	5	<	<	4.7	18	72	437	5	46	122	439	20	68	2	3	0.06	2.52	0.59	3.52	0.84	0.14	0.02	0.14
PHS-56	P	0.4	41	42	129	138	5	<	2	<	<	3.7	11	35	246	7	28	91	309	13	85	1	1	0.06	3.04	0.66	2.53	0.61	0.05	0.03	0.10
PHS-57	P	0.8	60	32	195	136	<	<	5	<	<	5.6	13	52	96	<	25	88	188	20	103	2	3	0.08	3.63	1.01	2.94	0.69	0.08	0.08	0.11
PHS-58	P	2.1	140	82	378	358	28	<	6	<	11	9.2	19	62	116	<	30	99	738	27	202	3	3	0.06	2.84	2.19	4.36	1.19	0.19	0.05	0.23
PHS-59	P	0.9	67	46	275	90	<	<	1	<	<	7.2	10	37	105	<	11	28	366	24	285	4	1	0.02	2.51	12x	1.90	0.32	0.14	0.06	0.14
PHS-60	P	1.1	66	76	369	169	<	<	3	<	<	8.0	14	38	100	9	12	29	829	30	262	3	1	0.02	2.15	8.59	2.34	0.36	0.09	0.08	0.14
PHS-61	P	0.2	62	56	118	148	7	<	1	<	<	4.4	16	38	214	10	48	97	335	27	58	2	3	0.16	2.94	0.62	2.86	0.93	0.21	0.03	0.09
PHS-62	P	1.0	36	31	120	157	5	<	2	<	<	4.9	11	32	104	7	32	95	233	22	42	1	2	0.10	4.24	0.61	2.30	0.77	0.19	0.05	0.10

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00
Method ICP
—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

17/08/99

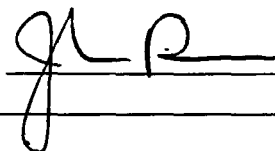
Certificate of Analysis

Page 1

Bernie Kreft

WO# 05722

Certified by



	Sample #	Au ppb
r	BHIT-1	1152
r	BHIT-2	7
r	BHIT-3	38
r	BHIT-4	<5
r	BHIT-5	<5
r	BHIT-6	<5
r	BHIT-7	5
r	BHIT-8	<5
s	HIT 0+0	147
s40	HIT 0+25N	119
s40	HIT 0+50N	109
s40	HIT 0+75N	32
s	HIT 0+25S	52
s	HIT 0+50S	798
s	HIT 0+75S	101
s	HIT 0+100S	178
s	HIT 25E+0	7
s	HIT 25E+25N	60
s	HIT 25E+50N	9
s	HIT 25E+75N	34
s40	HIT 25E+25S	29
s40	HIT 25E+50S	36
s40	HIT 25E+75S	24
s40	HIT 25E+100S	13
s40	HIT 50W+0	35
s	HIT 50W+25N	36
s	HIT 50W+50N	16
s	HIT 50W+75N	16
s	HIT 50W+100N	8
s40	HIT 50W+25S	8

17/08/99

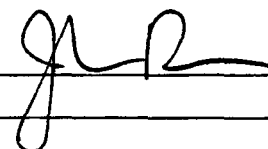
Certificate of Analysis

Page 2

Bernie Kreft

WO# 05722

Certified by



Sample #	Au ppb
s HIT 50W+50S	26
s HIT 50W+75S	13
s40 HIT 50W+100S	14
s HIT 50W+125S	28
s40 HIT 50W+150S	91
s HIT 75E+0	25
s HIT 75E+25N	23
s40 HIT 75E+50N	18
s HIT 75E+75N	14
s40 HIT 75E+100N	10
s HIT 75E+25S	9
s40 HIT 75E+50S	32
s HIT 75E+75S	40
s40 HIT 75E+100S	45
s HIT 75E+125S	17
s40 HIT 75E+150S	37
s HIT 125E+0	33
s40 HIT 125E+25N	45
s HIT 125E+50N	20
s40 HIT 125E+75N	33
s40 HIT 125E+100N	30
s40 HIT 125E+25S	25
s40 HIT 125E+50S	38
s40 HIT 125E+75S	42
s40 HIT 125E+100S	31
s40 HIT 125E+125S	71
s HIT 125E+150S	88
s HIT 175E+0	7
s HIT 175E+25N	19
s HIT 175E+50N	40

17/08/99

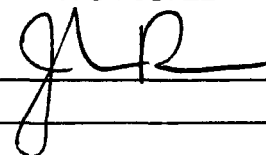
Certificate of Analysis

Page 3

Bernie Kreft

WO# 05722

Certified by



	Sample #	Au ppb
s	HIT 175E+75N	33
s	HIT 175E+100N	33
s	HIT 175E+25S	41
s	HIT 175E+50S	58
s	HIT 175E+75S	80
s	HIT 175E+100S	72

CERTIFICATE OF ANALYSIS

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INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: W.O. 05722

66 Samples
66=Pulp

[073508:49:57:99082099] Out: Aug 20, 1999 Page 1 of 2
In : Aug 13, 1999 Section 1 of 1

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
BHIT - 1	P	0.8	235	182	52	152	<	<	1	<	387	0.8	17	87	44	<	30	18	275	6	103	4	1	0.04	3.34	2.97	4.51	0.29	0.03	0.10	0.12
BHIT - 2	P	0.2	36	48	43	82	8	<	17	<	<	1.4	6	29	46	6	114	53	58	8	89	13	1	0.10	2.40	2.15	1.01	0.19	0.06	0.13	0.04
BHIT - 3	P	<	8	55	21	43	<	<	1	<	<	0.2	2	8	12	<	249	24	203	<	7	2	1	<	0.09	0.69	0.43	0.02	0.03	0.02	0.02
BHIT - 4	P	<	16	24	47	527	<	<	1	<	<	1.4	21	15	283	<	109	92	230	28	132	14	3	0.27	2.63	1.33	3.03	0.99	0.84	0.26	0.13
BHIT - 5	P	<	32	34	54	71	<	<	2	<	<	2.0	20	29	149	<	117	89	194	39	92	31	4	0.27	2.38	1.31	2.92	0.93	0.38	0.20	0.12
BHIT - 6	P	<	25	4	15	48	<	<	1	<	<	<	3	38	169	<	226	46	47	21	47	6	2	0.01	0.67	2.38	0.74	0.17	0.20	0.03	0.87
BHIT - 7	P	<	16	43	39	68	<	<	1	<	<	<	2	22	325	<	165	44	37	23	78	5	3	0.03	1.11	2.78	0.60	0.33	0.22	0.02	1.07
BHIT - 8	P	0.5	53	29	259	75	<	<	2	<	<	4.4	7	21	72	<	145	57	84	9	92	6	1	0.08	2.59	1.78	2.09	0.74	0.41	0.29	0.08
HIT 0 + 0	P	0.2	78	101	238	1259	23	<	14	<	<	<	17	83	306	<	65	141	409	22	72	4	3	0.05	3.26	0.29	6.42	0.48	0.10	0.03	0.28
HIT 0 + 25N	P	0.2	71	77	257	479	10	<	6	<	<	1.9	20	76	247	9	60	110	520	23	79	5	4	0.04	2.54	1.10	4.71	0.79	0.11	0.03	0.18
HIT 0 + 50N	P	0.4	100	69	339	480	11	<	8	<	<	2.6	18	106	373	<	55	138	486	21	88	3	4	0.06	2.88	1.11	4.67	0.91	0.15	0.03	0.14
HIT 0 + 75N	P	1.0	174	79	624	333	18	<	3	<	<	7.1	18	242	265	<	40	119	445	22	100	3	3	0.05	2.47	1.92	3.77	0.71	0.13	0.04	0.18
HIT 0 + 25S	P	0.2	85	70	228	434	17	<	7	<	<	0.4	16	72	413	<	57	161	390	20	129	2	3	0.07	3.28	0.48	4.51	0.88	0.13	0.04	0.15
HIT 0 + 50S	P	1.0	135	70	334	1570	240	<	6	<	<	2.8	25	146	302	<	60	175	1064	31	78	2	4	0.10	3.07	0.60	4.64	0.81	0.21	0.04	0.17
HIT 0 + 75S	P	1.0	248	56	742	344	15	<	10	<	<	5.0	26	421	210	<	52	188	519	24	106	2	4	0.06	3.08	1.21	4.89	1.37	0.17	0.04	0.29
HIT 0 +100S	P	0.9	233	60	474	589	12	<	7	<	<	3.7	27	284	235	14	59	153	685	49	190	3	5	0.16	3.50	1.78	4.52	1.46	0.50	0.06	0.26
HIT 25E+ 0N	P	1.4	84	39	425	73	<	<	3	<	<	6.9	10	111	65	<	15	42	192	19	199	2	1	0.02	1.76	8.21	2.98	0.20	0.06	0.13	0.20
HIT 25E+25N	P	2.1	292	62	2029	180	9	<	6	<	<	11.0	30	399	161	<	29	145	731	19	124	3	2	0.05	3.18	1.50	5.23	1.00	0.09	0.06	0.22
HIT 25E+50N	P	1.1	152	66	267	82	<	<	9	<	<	1.7	13	199	240	<	64	154	266	16	43	2	2	0.02	1.59	0.67	4.22	0.52	0.05	0.03	0.20
HIT 25E+75N	P	4.3	301	3417	2629	186	10	<	7	<	<	24.7	46	294	519	34	26	105	3827	9	1430	8	4	0.04	3.55	6.60	5.69	2.21	0.10	0.05	0.06
HIT 25E+ 25S	P	4.2	333	44	1191	158	10	<	18	<	<	13.5	18	368	166	<	69	307	359	36	108	4	2	0.02	2.75	3.66	4.44	0.31	0.08	0.03	0.25
HIT 25E+ 50S	P	2.0	149	41	412	288	7	<	12	<	7	4.1	13	152	132	<	50	180	253	22	97	4	2	0.03	2.05	3.25	3.74	0.44	0.05	0.03	0.21
HIT 25E+ 75S	P	1.7	252	55	1200	228	14	<	22	<	<	12.2	17	345	107	5	46	221	255	48	82	4	3	0.02	1.90	2.97	5.33	0.71	0.06	0.04	0.23
HIT 25E+100S	P	0.9	113	24	394	117	6	<	24	<	<	4.3	8	107	87	<	26	144	167	13	76	1	1	0.02	1.58	0.74	3.33	0.16	0.04	0.04	0.14
HIT 50W+ 0	P	0.3	115	85	397	276	10	<	8	<	<	0.2	30	123	608	<	70	148	445	22	135	7	5	0.08	4.77	0.59	5.88	0.95	0.18	0.05	0.21
HIT 50W+ 25N	P	0.6	128	158	495	270	12	<	11	<	<	1.9	17	124	250	<	51	122	393	21	53	2	1	0.01	2.70	0.42	5.39	0.60	0.11	0.03	0.31
HIT 50W+ 50N	P	0.5	107	60	255	351	8	<	10	<	<	<	29	118	1246	<	56	135	285	23	86	5	5	0.07	4.51	0.61	4.41	1.02	0.19	0.04	0.16
HIT 50W+ 75N	P	0.4	79	52	223	321	10	<	10	<	<	0.3	17	76	897	<	56	166	275	15	91	3	3	0.06	3.94	0.52	4.11	0.87	0.20	0.04	0.15
HIT 50W+100N	P	0.1	44	37	124	169	<	<	7	<	<	1.3	9	42	644	<	44	148	154	11	64	4	2	0.10	2.52	0.22	3.57	0.60	0.17	0.03	0.08
HIT 50W+ 25S	P	0.6	72	155	229	171	8	<	16	<	<	1.8	18	58	323	<	39	140	817	15	97	2	2	0.04	2.21	0.46	4.81	0.44	0.15	0.04	0.30
HIT 50W+ 50S	P	0.7	128	87	278	275	17	<	7	<	<	0.1	26	145	465	7	62	147	375	31	121	4	5	0.09	4.12	1.22	4.81	1.15	0.17	0.07	0.17
HIT 50W+ 75S	P	0.3	127	75	382	253	12	<	7	<	<	0.8	24	136	593	7	59	152	296	23	127	4	4	0.06	4.01	0.71	5.19	0.89	0.17	0.05	0.22
HIT 50W+100S	P	0.1	85	74	352	218	8	<	7	<	<	0.8	18	82	538	<	60	162	455	19	99	4	3	0.05	3.90	0.52	4.64	0.54	0.12	0.04	0.37
HIT 50W+125S	P	0.4	153	95	427	341	22	<	9	<	<	1.2	22	150	546	14	57	154	296	23	177	5	4	0.07	4.16	1.17	5.92	1.03	0.18	0.07	0.24
HIT 50W+150S	P	0.4	134	264	218	470	54	<	6	<	<	2.6	18	38	119	<	53	70	799	28	86	2	5	0.06	2.41	1.21	2.78	0.80	0.08	0.04	0.10
HIT 75E+ 0	P	0.9	88	28	531	137	8	<	3	<	<	6.8	14	129	146	14	34	88	194	22	265	3	2	0.06	2.69	8.80	3.38	0.49	0.14	0.22	0.22
HIT 75E+ 25N	P	1.4	111	30	358	144	<	<	4	<	<	5.5	15	128	112	<	27	72	282	29	264	3	2	0.05	3.11	5.90	3.88	0.40	0.15	0.25	0.27
HIT 75E+ 50N	P	1.1	155	36	185	151	10	<	6	<	<	1.3	11	69	167	<	23	70	217	10	136	5	2	0.03	2.86	0.66	6.40	0.24	0.11	0.04	0.19
HIT 75E+ 75N	P	1.5	104	27	286	126	5	<	3	<	<	3.8	11	113	357	<	32	76	474	24	166	3	2	0.05	3.40	2.72	4.18	1.95	0.34	0.13	0.20

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00
 Method ICP
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS

iPL 99H0735

2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: W.O. 05722

66 Samples
66=Pulp

[073508:49:57:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Page 2 of 2
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
HIT 75E+100N P	0.8	62	25	263	107	<	<	4	<	<	3.6	12	108	142	12	24	62	348	21	173	3	1	0.04	2.96	2.35	4.44	0.98	0.11	0.14	0.20
HIT 75E+ 25S P	1.1	38	18	237	57	<	<	3	<	<	2.0	6	64	48	<	13	24	121	13	397	1	1	0.02	1.17	25%	1.94	0.13	0.07	0.12	0.11
HIT 75E+ 50S P	0.6	77	48	177	217	5	<	5	<	6	1.6	12	81	139	<	58	173	235	18	76	2	2	0.03	1.74	2.47	2.47	0.53	0.06	0.03	0.24
HIT 75E+ 75S P	2.3	183	47	1810	156	7	<	9	<	<	18.3	20	195	63	9	35	110	285	42	166	5	2	0.04	2.94	8.71	6.64	0.39	0.12	0.05	0.35
HIT 75E+100S P	1.2	108	43	451	260	10	<	5	<	<	4.3	18	145	112	6	54	118	313	31	139	4	4	0.06	3.59	3.89	4.44	0.76	0.23	0.10	0.34
HIT 75E+125S P	1.0	145	28	408	141	<	<	4	<	<	4.3	15	159	58	<	21	50	245	34	257	4	1	0.03	2.79	13%	4.68	0.42	0.10	0.10	0.33
HIT 75E+150S P	0.9	92	29	104	140	<	<	2	<	6	0.7	8	58	98	<	25	58	241	14	77	2	1	0.02	0.88	3.08	1.34	0.23	0.04	0.02	0.17
HIT 125E+ 0 P	0.8	228	47	558	217	9	<	11	<	<	1.3	26	148	337	<	47	131	240	24	101	5	3	0.07	3.58	0.71	6.60	0.64	0.17	0.04	0.21
HIT 125E+ 25N P	1.7	254	35	716	158	12	<	5	<	<	7.2	12	101	150	<	38	192	570	17	99	2	2	0.04	2.88	1.70	4.19	0.39	0.08	0.03	0.33
HIT 125E+ 50N P	0.8	73	25	284	93	<	<	4	<	<	2.2	10	65	159	5	28	75	183	16	253	2	1	0.04	2.13	13%	2.41	0.55	0.08	0.05	0.11
HIT 125E+ 75N P	2.0	339	39	1005	87	6	<	14	<	<	9.6	14	102	129	<	22	89	163	13	336	4	2	0.03	2.13	21%	3.09	0.59	0.08	0.04	1.07
HIT 125E+100N P	3.0	444	34	1115	104	5	<	11	<	<	15.1	13	121	79	13	15	71	131	20	194	4	1	0.02	2.68	2.87	3.59	0.31	0.06	0.04	0.41
HIT 125E+ 25S P	0.9	100	39	217	187	8	<	3	<	8	2.9	11	101	141	<	46	134	240	19	82	2	2	0.02	1.56	2.42	2.30	0.39	0.05	0.04	0.24
HIT 125E+ 50S P	0.3	86	78	324	309	19	<	6	<	13	3.1	20	133	260	16	69	230	393	20	87	1	2	0.03	2.71	0.90	3.59	0.63	0.08	0.03	0.29
HIT 125E+ 75S P	0.5	85	43	142	245	11	<	6	<	9	2.0	9	68	222	<	72	190	214	22	95	1	2	0.03	1.84	0.95	2.93	0.53	0.09	0.03	0.34
HIT 125E+100S P	0.5	71	54	114	222	9	<	5	<	10	2.5	9	51	202	10	60	136	187	21	81	1	1	0.01	2.08	1.19	2.65	0.44	0.08	0.02	0.25
HIT 125E+125S P	0.1	74	57	232	319	10	<	8	<	9	1.7	16	97	170	<	75	224	341	19	93	2	3	0.03	1.95	1.52	3.20	0.71	0.09	0.02	0.27
HIT 125E+150S P	2.1	213	47	937	254	<	<	7	<	44	10.6	21	265	102	<	34	136	388	40	186	2	3	0.05	3.72	3.68	4.50	0.50	0.09	0.08	0.27
HIT 175E+ 0 P	0.3	45	15	147	61	<	<	2	<	<	1.7	5	25	171	<	18	51	219	14	85	1	1	0.04	1.59	1.90	1.44	0.94	0.07	0.05	0.12
HIT 175E+ 25N P	0.7	152	33	681	94	5	<	3	<	<	3.7	10	74	207	<	32	119	437	17	122	4	2	0.04	2.34	3.95	2.74	0.90	0.07	0.04	0.88
HIT 175E+ 50N P	1.1	235	33	754	128	8	<	5	<	<	15.1	13	116	211	<	42	168	407	21	109	4	4	0.05	3.15	2.50	4.00	1.25	0.09	0.03	0.30
HIT 175E+ 75N P	1.0	154	33	511	144	6	<	4	<	<	4.4	16	99	341	12	40	118	363	18	155	4	3	0.07	3.87	3.05	3.31	2.06	0.19	0.04	0.18
HIT 175E+100N P	1.1	155	52	541	228	20	<	8	<	<	3.5	18	121	338	<	43	132	255	23	183	6	4	0.06	3.18	3.35	4.76	1.20	0.24	0.05	0.25
HIT 175E+ 25S P	0.2	68	53	128	283	13	<	7	<	8	0.9	6	44	175	7	61	200	127	10	68	1	<	0.01	1.94	0.33	3.07	0.28	0.06	0.02	0.18
HIT 175E+ 50S P	0.1	104	74	252	503	14	<	7	<	22	1.6	19	108	188	<	65	185	518	17	87	1	2	0.03	2.49	1.13	4.21	0.62	0.09	0.03	0.23
HIT 175E+ 75S P	0.6	147	71	330	428	13	<	6	<	24	1.1	23	126	177	9	65	173	600	34	117	2	4	0.06	3.38	0.97	4.47	0.82	0.15	0.03	0.27
HIT 175E+100S P	0.2	111	60	232	308	11	<	4	<	4	2.2	23	85	186	<	56	142	557	36	138	2	4	0.08	2.79	1.10	3.55	0.81	0.21	0.04	0.27

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 9.99 5.00 5.00
Method ICP
—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

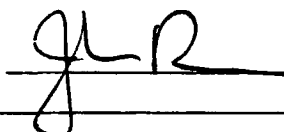
07/09/99

Certificate of Analysis

Page 1

Bernie Kreft

WO# 05743

Certified by 

Sample #		Au 30g ppb
r	BH - 1	5
r	BH - 2	10
r	BH - 3	6
r	BH - 4	<5
r	BH - 5	<5
r	BH - 6	8
r	BH - 7	6
r	BH - 8	8
r	BH - 9	5
r	BH - 10	5
r	BH - 11	<5
r	BH - 12	<5
r	BH - 13	<5
dc	H99-01 5.4-6.4	<5
dc	H99-01 9.6-9.9	26
dc	H99-01 11.0-11.2	<5
dc	H99-01 12.2-13.2	6
dc	H99-01 14.8-15.5	<5
dc	H99-01 15.5-16.1	<5
dc	H99-01 16.1-16.8	<5
dc	H99-01 18.1-19.1	6
dc	H99-01 31.5-32.5	<5
dc	H99-01 39.1-39.5	8
dc	H99-01 39.5-39.8	468
dc	H99-01 39.8-40.3	6
dc	H99-01 40.3-41.0	<5
dc	H99-01 41.0-42.2	9
dc	H99-01 42.2-42.8	<5
dc	H99-01 42.8-43.7	<5
dc	H99-01 43.7-44.1	5

07/09/99

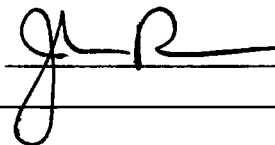
Certificate of Analysis

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Bernie Kreft

WO# 05743

Certified by



Sample #			Au 30g ppb
dc	H99-01	50.1-51.3	8
dc	H99-01	51.3-52.5	<5
dc	H99-01	52.5-52.9	<5
dc	H99-01	52.9-53.4	<5
dc	H99-01	53.4-54.1	5
dc	H99-01	54.1-54.6	71
dc	H99-01	54.6-55.8	<5
dc	H99-01	55.8-57.0	7
dc	H99-01	57.0-57.7	24
dc	H99-01	57.8-58.8	7
dc	H99-01	58.8-59.3	15
dc	H99-01	59.3-59.8	<5
dc	H99-01	59.8-60.3	<5
dc	H99-01	60.3-61.4	<5
dc	H99-01	61.4-62.4	<5
dc	H99-01	62.4-62.9	<5
dc	H99-01	62.9-63.2	5
dc	H99-01	63.2-64.2	90
dc	H99-01	64.2-64.8	126
dc	H99-01	64.8-65.2	<5
dc	H99-02	5.8-6.8	34
dc	H99-02	12.0-13.0	<5
dc	H99-02	13.0-13.4	5
dc	H99-02	13.4-13.6	9
dc	H99-02	16.0-16.7	7
dc	H99-02	23.4-23.6	6
dc	H99-02	23.6-23.8	<5
dc	H99-02	36.5-37.0	10
dc	H99-02	37.0-37.5	9
dc	H99-02	45.2-45.8	415

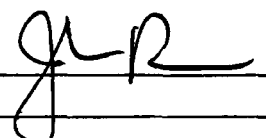
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Certificate of Analysis

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Bernie Kreft

WO# 05743

Certified by 

Sample #			Au 30g ppb
dc	H99-02	45.8-46.2	32
dc	H99-02	48.4-49.6	831
dc	H99-02	49.6-50.3	12
dc	H99-02	50.3-52.0	6
dc	H99-02	52.0-52.6	214
dc	H99-02	52.6-53.3	6
dc	H99-02	53.3-54.3	52
dc	H99-02	54.3-54.6	43
dc	H99-02	54.6-55.0	654
dc	H99-02	55.0-55.8	16
dc	H99-02	55.8-56.5	111
dc	H99-02	56.5-57.5	32
dc	H99-02	57.5-58.4	101
dc	H99-02	61.0-62.0	256
dc	H99-02	62.0-63.0	7
dc	H99-02	81.7-82.7	<5
dc	H99-02	82.7-83.7	<5
dc	H99-02	83.7-84.7	5
dc	H99-02	87.2-87.5	467
dc	H99-02	88.3-88.8	6
dc	H99-02	88.8-89.7	<5
dc	H99-02	89.7-89.9	5
dc	H99-02	89.9-90.6	8
dc	H99-02	91.5-92.0	<5
dc	H99-02	92.0-93.0	<5
dc	H99-02	93.0-93.7	<5
dc	H99-02	93.7-94.7	<5
dc	H99-02	94.7-95.4	8
dc	H99-02	95.4-95.7	6
dc	H99-02	95.7-96.1	<5

07/09/99

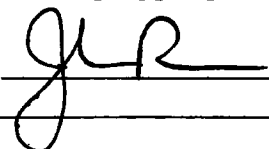
Certificate of Analysis

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Bernie Kreft

WO# 05743

Certified by



Sample #			Au 30g ppb
dc	H99-02	96.1-96.9	102
dc	H99-02	96.9-97.3	2891
dc	H99-02	97.3-97.8	2241
dc	H99-02	97.8-98.8	45
dc	H99-02	98.8-99.8	9
dc	H99-02	99.8-101.2	<5
dc	H99-02	101.2-101.7	18
dc	H99-02	104.5-105.0	5
dc	H99-02	105.0-106.1	164
dc	H99-02	106.1-107.0	790
dc	H99-02	107.0-107.9	44
dc	H99-02	110.4-111.4	18
dc	H99-02	111.4-112.8	<5
dc	H99-02	112.8-113.4	20

LOCATION: HIT TAILCAMP		DRILL HOLE NO: H-99-02	
ZIMUTH: 104°	ELEVATION: 4920'	PROPERTY: HIT	
NCLINATION: -72°	LENGTH: 383'	CLAIM NO: HIT 6	
CORE SIZE: BGM	SURVEYS		SECTION:
	METREAGE	AZIMUTH	INCLINATION
			CORR. INCLIN.
TARTED: AUGUST 23, 1999			LOGGED BY: G.D./B.S.K
COMPLETED: AUGUST 24, 1999			DATED LOGGED: AUG. 23-25/99
PURPOSE: Test of showing in creek bed			DRILLING CO.: FALCON
H-99-02			ASSAYED BY: NAL

CORE RECOVERY:													
METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES						
FROM	TO			FROM	TO								
0	9'	(3.3m) OVERBURDEN											
3m	7.3	LIMESTONE, CHERT, ARGILLITE											
		laminated interbedded ssds, centimeter scale,											
		bedding 60° tca & pervasive silicification,											
		70% light grey to cream colour beds, 30%											
		maroon to dark grey beds, weak to moderate											
		limonitic weathering, minor dendritic of											
		hematite, & minor po diss.											
		3.5-3.6 minor displacement of											
		bedding by microfractures 10° tca											
		3.8-3.9 .5cm carbonate veins 80° tca											
		and weak microfractures 40° tca											

DRILL HOLE LOG

LOCATION:						DRILL HOLE NO.:	
AZIMUTH:		ELEVATION:		PROPERTY:			
INCLINATION:		LENGTH:		CLAIM NO.:			
		CORE SIZE:		SURVEYS		SECTION:	
		METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.	LOGGED BY:	
STARTED:						DATED LOGGED:	
COMPLETED:						DRILLING CO.:	
PURPOSE:						ASSAYED BY:	

CORE RECOVERY:													
METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES						
FROM	TO			FROM	TO								
		5.8-6.8 moderately fractured, a few 1cm wide calcite veins 70° tca											
7.3	7.6	GRANODIORITE fine to med gr biotite gcl, chill margin 3cm wide cu upper contact											
7.6	10.2	CHERT, LIFESTONE & ARGILLITE laminated interbedded ssds, centimetre scale, bedding 65° tca, 80% light grey to cream coloured beds, 20% dark grey beds, weak deformation of bedding, patchy weak limonitic weathering, fine diss. po < 1% 9.0 2cm band of massive fine gr. po											

Toklat Resources Inc.

DRILL HOLE LOG

LOCATION:						DRILL HOLE NO.:	
AZIMUTH:		ELEVATION:		PROPERTY:			
INCLINATION:		LENGTH:		CLAIM NO:			
CORE SIZE:		SURVEYS				SECTION:	
		METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.	LOGGED BY:	
STARTED:						DATED LOGGED:	
COMPLETED:						DRILLING CO.:	
PURPOSE:						ASSAYED BY:	

CORE RECOVERY:													
METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES						
FROM	TO			FROM	TO								
5.2	10.6	GRANODIORITE											
		fine to med gr biotite granodiorite, 3cm											
		chill margin at upper contact											
		10.2 4cm. quartz-feldspar vein.											
11.6	23.6	CHESTNUT, ARGILLITE & LIMESTONE											
		interbedded ss/s, centimetre scale,											
		60% mauve to dark gray beds, 40%											
		light gray to cream beds, bedding @ 60° to											
		weak deformation of beddings, weak to											
		moderate limestone staining on bedding planes,											
		a few microfractures offset bedding on											
		millimetre scale, pervasive silicification, a few											

Toklat Resources Inc.

DRILL HOLE LOG

LOCATION:						DRILL HOLE NO.:	
AZIMUTH:		ELEVATION:		PROPERTY:			
INCLINATION:		LENGTH:		CLAIM NO:			
CORE SIZE:		SURVEYS				SECTION:	
		METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.	LOGGED BY:	
STARTED:						DATED LOGGED:	
COMPLETED:						DRILLING CO.:	
PURPOSE:						ASSAYED BY:	

CORE RECOVERY:													
METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES						
FROM	TO			FROM	TO								
		carbonate veins and veinlets on fractures and bedding planes. weak to moderate microfracturing, minor fine diss. por. a few fine por. clots and veinlets.											
		10.8 5cm. carbonate band, weakly limonitic											
		11.3-11.4 fine por. veinlets in microfractures											
		12.1 clots of fine grained por. elongated along bedding, up to 1cm long											
		13.0-13.4 limonitic fractures @ 10° ka, 1cm por. vein along fracture											
		13.4-13.6 gray-brown sed. weakly brecciated by anastomosing											

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DRILL HOLE LOG

LOCATION:						DRILL HOLE NO.:	
AZIMUTH:		ELEVATION:		PROPERTY:			
INCLINATION:		LENGTH:		CLAIM NO.:			
CORE SIZE:		SURVEYS				SECTION:	
		METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.		
STARTED:						LOGGED BY:	
COMPLETED:						DATED LOGGED:	
PURPOSE:						DRILLING CO.:	
						ASSAYED BY:	

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		millimetre scale veins and veinlets of white carbonate, microfractures, weak limenitic staining												
		13.6-18.8 - several 0.5cm white carbonate veins 70° tca, open vugs, casts												
		18.8-18.9 - broken limenitic core, clay gouge, shear?												
		21.7 2cm granodiorite band												
		22.1-22.3 blue-grey fine to med gr. carbonate vein @ 45° tca												
		22.4 minor diss fine gr. po clots along bedding plane in siliceous white to cream colour chert												

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
23.6	24.5	GRANODIORITE fine to med gr. biotite-hornblende granodiorite; weak microfracturing @ 20° tca; bleaching along fractures; fine white carbonate veins on fractures; 20cm chill margin on upper contact; minor fins pe at upper contact														
24.5	33.4	CHERT, ARGILLITE, LITESTONE, MARBLE laminated mixed dark and light interbedded ssds on a centimetre scale; 40% massive to dark grey beds; 60% light grey-white-cream beds; bedding 60-65° tca; some weak deformation of bedding; pervasive silicification; minor patchy limonite stain; variable weak microfracturing and carbonate veining; minor diss. fine gr. pe 24.5-25.5 gray fine gr white-gray marble bands and broken fragments; weathered out cavities; weakly sheared 25.9-27.5 a few purple coloured carbonate bands and veins; patchy black chloritic clots?														

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Drill Hole No.

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		27.5-27.7 granodiorite, fine gr, weak limonite stain														
		27.7-28.4 2cm marble beds, limonite stain on microfractures in dark beds														
		28.4 2cm white quartz vein @ 35° tca														
		29.0 1cm med gr dark carbonates vein. to bedding														
		30.6 .5cm white carbonate vein @ 5° tca														
		32.5- white carbonate veinlets in microfractures 20° tca, compose 2% of rock														
33.4	33.6	GRANODIORITE white fine gr														
33.6	34.2	SKARN, CHERT mixed appls green fine to med gr calc- silicate and white carbonate bands, cream colour chert beds & bedding @ 30° tca, poorly developed green and brown garnets up to 1cm in skarn bands														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
34.2	41.2	CHERT, ARGILLITE, LIMESTONE, MARBLE mixed interbedded beds, centimetre scale bedding, bedding @ 50° tca, 60% white to cream colour cherts, 40% massive to dark grey beds, a few grainy light grey marble bands, selective silicification, weak deformation of bedding, weak schistosity on dark beds, clastic?, weak microfracturing minor diss. fins gr po														
		34.2-36.1 up to 2% garnets, fine gr clots and veinlets of po														
		36.1-36.3 black microfractures 20° tca														
		36.3-36.5 granodiorite band														
		36.5-37.0 weakly brecciated, calc-silicate rock, garnets, carbonate veins to 90° tca and 50° tca														
		37.0-37.4 weakly schistose green-brown beds contain chlorite, biotite?, minor po blabs diss along bedding in light cherty beds and in microfractures to 90° to 60° to bedding														
		37.5 carbonate band, dark chlorite patches, weakly garnetiferous														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		39.8 10cm limonite stained section 1cm white carbonate vein, actinolite? crystals														
41.2	42.0	SKARN banded and interbedded white carbonate, brown to green calc-silicate, 20% light grey chert beds, bedding @ 45° tea, poorly developed green and brown garnets, weakly deformed bedding, minor diss. ps, dusty black crin. weathering of ps														
		41.3 quartz band														
42.0	48.4	CHEST, ARGILLITE, LIMESTONE mixed interbedded ssds, centimetre scale beddings laminated, bedding 35-45° tea, weak deformation of bedding, pervasive silicification, minor patchy limonite staining, minor microfractures 40-60° to bedding, a few white carbonate veins and veinlets. minor fine gr. ps diss. and veinlets orientated parallel to bedding.														
		44.0-45.8 calc-silicate bands, poorly														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		developed garnets, white carbonates bands, apple green calcareous sharn, epidote?														
46.4	49.5	SHARN														
		mottled green to brown calc.-silicate rock and light chert beds. garnet crustals, bladed calcite, actinolite? & white carbonate bands, fine pe veinlets and diss. parallel to bedding, up to 2% of rock, pe primarily in dark beds and fractures.														
49.5	53.3	CHEAT, ARGILLITE, SHARN														
		mixed interbedded laminated sands, 50% cream to white beds, 40% waxy, mauve to green- gray beds, bedding @ 36° to 40°, weak deformation of bedding														
		49.5-50.6 black to gray mudstones somewhat arenaceous, fine pe, diss on fractures and bedding planes														
		51.3-51.4 sharn band & pe vein, 5cm														
		52.0-52.6 calc-silicate ex. weak limestone on fractures														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
533	550	SHARN, CHERT, LIMESTONE mottled green sharn bands separated by white to cream siliceous beds and vuggy limestone fragments and beds, black graphitic fractures and chlorite patches														
		54.2 sooty black oxide around chls and diss po, bleached calcite and garnet crystals														
		543-54.6 - fragments of vuggy weathered carbonate, microfractures, calcite veining, yellow tinge to fragments, weakly brecciated section														
550	599	CHERT, SHARN, CALC-SILICATE 60% interbedded light siliceous ssds, centimetres scale bedding, 30% calc-silicate bands, 10% mauve to brown argillite, bedding @ 35° to weak microfracturing, deformation of bedding; mottled green bands contain garnets, epidote and white carbonate lenses, diss po with dusty black oxide patches														
		57.0 weak microfracturing														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		57.4 chlorite patches														
		57.8 open cavities in yellowish carbonate fragments														
59.9	60.6	LIMESTONE, CHERT 90% mauve to dark gray beds, 10% cream to white siliceous beds, bedding @ 30°ca, weak deformation of bedding, bedding offset by microfractures and calcite veinlets, weak to moderate fracturing and veining														
60.6	61.1	CHERT, LIMESTONE, ARGILLITE laminated light coloured sed, wavy bedding, pervasive silicification														
61.1	62.4	SKARN, CALC-SILICATE, mottled apple green garnetiferous rock, apatite, bladed calcite, white carbonate bands and lenses, weak remnant bedding, weak microfracturing, calcite veinlets and veins 61.7 fine stibnite blades 62.0 vuggy yellowish carbonate fragments														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		62.4 - quartz carbonate vein parallel to core angle														
62.4	63.6	CHERT, LIMESTONE highly siliceous white to cream colour sides, grainy marble bands, weak fracturing 63.4-63.6 broken core & poor recovery, graphitic fractures, shear?														
63.6	68.5	GRANODIORITE fairly fresh biotite granodiorite, weakly fractured, a few .5cm wide carbonate veins @ 85° to 66.5-68.5 biotite quartz diorite, chlorite 68.0 - weak foliation and slickensides @ 60° to														
68.5	70.3	LIMESTONE, CHERT 80% massive to dark grey limestone, 20% cream to white cherty beds, bedding @ centimetre scales														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		weakly deformed bedding @ 40° tca, weak foliation in dark beds, chloritic?														
		68.3 2cm calcite band														
		68.6 microfracture, calcite veinlets														
		69.1 granodiorite inclusion														
70.3	81.6	GRANODIORITE														
		fine to med gr biotite granodiorite, several bleached fine gr siliceous sections, weak microfracturing @ 20°, 60° tca, a few carbonate veinlets														
		72.6 - chert inclusion														
81.6	83.4	LIMESTONE, ARGILLITE, CHERT														
		wispy to laminated, 80% mauve to grey beds, 20% cream to white beds, bedding at centimetre scale, bedding @ 70° tca, weak deformation, bedding offset by fractures, mauve beds are weakly foliated containing chlorite, weak microfracturing, fine blebs and diss. of po on fractures and bedding plane < 1% total sulphide														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES												
FROM	TO			FROM	TO														
83.4	94.0	CHERT, AGILLITE, SKARN mixed laminated light and dark sels, 70% cream to white siliceous beds, 30% mauve to brown beds, bedding @ 80° tca, weak deformation of bedding, weak microfracturing, minor por. or diss and blebs 85.2 2.5cm skarn band, garnetiferous, epidote? 85.7 3cm skarn band 87.2-87.4 skarn band, dusty black weathering to patches and veinlets 91.2-91.7 - dark beds have fine white crystals along margins 91.5-92.0 - a few carb. veinlets on microfractures @ 20°-60° tca 92.5 - skarn band, garnet 93.0 .5-1cm carbonaceous 80° tca, green stain of fractures 93.1-93.7 purple marble lenses																	
94.0	104.7	CHERT, MARBLE, SCHIST, BRECCIA mixed sels, bedding 75° tca																	

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		sections of weak brecciation and fracturing, fine gr po diss and in fractures,												
		95.4-95.7 increasing density of microfractures, fine carb. veinlets and fine po												
		95.7-96.1 - tan to gray, sdly dense microfracturing and fine carbonate veinlets, dusty black oxide around clots of po, ~1% apple green stain												
		96.1-96.4 blue-grey and green carbonate, dense microfractures, minor brecciation along carbonate veins												
		96.4-96.9 light grey grainy marble, blue to purple bands, a few carbonate veinlets												
		96.97.3 graphitic schistose fracture faces, quartz-carbonate veins, dusty black oxide and po clots, weak brecciation												
		97.3-97.7 breccia zone, dark grey												

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		limestone and med grey chert														
		fragments in carbonate matrix,														
		moderate density of carbonate veins														
		and microfractures, a few fine gr														
		quartz-carb veins, po blobs and														
		cliss, a few clasts of fine gr														
		po.														
		97.7 6cm mauve bed														
		97.8-99.1 a few .5cm calcite veins														
		@ 10° tea														
		101.2-101.7 laminate mauve and cream														
		beds, fine microfractures,														
		dusty black po clots														
		103.3 skarn band														
		104.6 skarn band														
104.7	113.4	SKARN, MARBLE, CHERT														
		apple green to white to salmon skarn, light														
		brown garnets, epidote, poorly bedded @														
		75° tea, white carbonate bands, weakly														
		fractured, minor po, small blue-black														
		metallic crystals, molybdenite? black dusty														
		ortho brown po, bladed calcite lenses, open														
		cavities, yellow tinge to vuggy carbonate,														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		black chlorite patches												
		104.9 blue-black metallic mineral, actinolite crystals												
		105.8-105.9 minor fine gr po clots to 5cm wide												
		107-107.9 weak microfracturing												
		108.2 5cm sharp band w garnet crystals, white carbonat lac radiating blades, calcite, seropite?												
		108.4 carbonate veins												
		108.8 secondary carbonate in fractures, bleaching along fractures												
		112.8-113.4 mottled apple green sharp, 1/2 po diss and minor chloropyrite												
113.4	116.7	GRANODIORITE												
		fine to med gr, biotite-feldspar-quartz, weak carbonate veining and fracturing, weak bleaching around fractures												
		EOH												

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H 99-01

DRILL HOLE LOG

LOCATION: HIT PROPERTY		ELEVATION: 4420'		PROPERTY: HIT	
AZIMUTH: 104°		LENGTH: 216'		CLAIM NO: HIT 6	
INCLINATION: -60°		CORE SIZE: 86M		SECTION:	
STARTED: August 22, 1999		METREAGE		LOGGED BY: G.D. / B.S.K.	
COMPLETED: August 25, 1999		AZIMUTH		DATED LOGGED: Aug. 22-26/99	
PURPOSE: Test of slowing in creek bank		INCLINATION		DRILLING CO: FALCON	
H-99-01		CORR. INCLIN.		ASSAYED BY: NAL	

CORE RECOVERY:

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
0.	8'	OVERBURDEN												
2.4	6.7	LIMESTONE, CHEST, ARGILLITE												
		laminated interbedded light sed, continuous												
		scale bedding, 80% light grey to cream colour												
		siliceous beds, 20% wispy dark grey to mauve												
		beds, weak to moderate limonite weathering,												
		bedding @ 75° tca, weak microfracturing,												
		carbonate veinlets @ 70°+30° tca, minor dis												
		po.												
		2.8-3.1 vuggy carbonate veins and												
		inclusions												
		3.1-4.1 broken core, tan weathering,												
		5.4-6.4 hematite dendrites												

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
6.7	7.0	GRANODIORITE fine to med. gr. biotite-plagioclase granodiorite white chill margin at upper contact.														
7.0	9.0	LIMESTONE, CHERT, ARGILLITE laminated interbedded light seds, bedding at centimetre scale, weakly foliated, bedding @ 75° to ca, weak deformation of bedding, minor displacement of bedding by fractures, 20% wispy dark grey to massive beds, weak microfracturing and carbonate veining, fine dis. p < 1% 7.0-7.4 hematite dendrites 7.8-7.9 5cm carbonate vein @ 25° to ca, .5cm bleached envelope around vein and fractures														
9.0	16.7	LIMESTONE, ARGILLITE, CHERT, MARBLE laminated interbedded dark seds, centimetre scale bedding, 60% massive to dark grey beds, 20% cream to white siliceous beds, limonite weathering, hematite dendrites, weak fracturing, 9.6-9.7 moderately fractured, carbonate vein, limonite														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		11.0-11.2 quartz-carbonate vein, 1cm wide, moderate fracturing and fine carbonate veining												
		11.5 wispy dark beds contain fine gr. diss. po. <1%												
		12.2 .2cm carbonate vein @ 20'tea												
		12.6 .4cm carbonate vein @ 50'tea												
		13.2-13.4 deformation of bedding, fine po patches <1%												
		14.8-16.8 bands of blue-grey grainy marble, anastomosing fine carbonate veinlets, vuggy, carbonate fragments in open cavities												
		16.0-16.3 - weak fracturing with graphite on faces												
16.7	23.8	LIMESTONE, ARGILLITE, CHERT, MARBLE laminated interbedded light sed, 60% white to cream colour siliceous beds, 30% wispy mauve to gray beds, bedding at centimetre scale, bedding @ 75'tea, weak deformation of bedding, weak displacement of beds by fractures, weak patchy limonite staining												

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		fine gr. diss. po < 1% , minor hematite a few carbonate veins and veinlets														
		17.5 weak foliation														
		18.2 chlorite? in darker beds														
		19.1-20.1 marble bands														
		23.4 broken core, carbonate veining														
23.8	24.1	GRANODIORITE fine to med. gr biotite-plagioclase granodiorite, chill margin at upper contact														
24.1	27.8	LIMESTONE, CHERT, ARGILLITE laminated mixed seds, centimetre scale bedding, bedding @ 80° to 90° 65% white to cream siliceous beds, 35% dark grey to mauve wispy beds, weakly foliated, weak deformation of bedding, minor microfractures and carbonate veining, minor limonite stain on fractures and bedding planes, weak offset of bedding by fractures, fine diss po, a few chls < 1%														

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		24.9 - stronger limonite staining														
		26.4 - sparse dendrites of hematite														
		26.4-27.4 - blue-grey carbonate bands.														
27.8	30.2	SKARN, MARBLE, LIMESTONE, CHERT mixed bands of garnetiferous skarn, white carbonate and white siliceous beds, 40% massive to dark grey siliceous beds, bedding at centimetre scale, bedding @ 75° tea, weak microfracturing, patchy weak limonite stain, fine disc ps <1%														
30.2	34.6	LIMESTONE, CHERT, ARGILLITE laminated dark and light sed, centimetre scale bedding, 50% massive to grey beds, 50% cream to white siliceous beds, bedding @ 75° tea, weak deformation, weak foliation, minor limonite on fractures and bedding planes, weak microfracturing, minor fine gr disc ps 32.6-33.4 ps clots <1% 33.2-33.6 1/2 the core is granodiorite														

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		limonite stain moderate, fine dendrites of hematite														
		337-34.0 1/2 core granodiorite, contact parallel to core angle														
		34.2 granodiorite band, weak microfracturing														
34.6	44.0	LIMESTONE, CHERT, SKARN - mixed centimetre scale beds of mauve to dark grey (40%) and cream to white beds (40%), bands and patches of skarn and marble (20%), weak deformation of bedding, bedding @ 75° to g, variable weak foliation, minor limonite staining, minor fine disse														
		34.6-34.9 mottled garnetiferous grey to apple green skarn, weak microfracturing and carbonate veining														
		35.6 limonite stain														
		37.2-37.6 banded skarn														
		39.1-39.5 mixed garnetiferous skarn and ss														
		39.5-39.8 mottled apple green skarn,														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		fine gr. diss. po, chlorite? patches														
		39.8-40.3 dense fine black microfractures														
		in mixed seds, fine carbonate veins,														
		dusty fine gr. po. along fractures,														
		fracture orientation mostly parallel to														
		bedding, limonite and hematite														
		staining														
		40.3-41.2 weak microfracturing														
		41.9 granodiorite inclusion, weak														
		microfracturing														
		42.0 7cm wide granodiorite band														
		43.9 weak microfracturing, fine														
		gr. dusty diss. po, black														
		oxide, graphitic shear at														
		contact														
44.0	50.1	GRANODIORITE to QUARTZ DIORITE														
		medium grained weakly porphyritic biotite														
		granodiorite, minor hornblende, weak														
		fracturing @ 20° and 70° to a, calcite														
		veins in fractures														
50.1	51.3	LIMESTONE, CHERT, ARGILLITE														
		laminated seds, 80% light white to cream														

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		siliceous beds, 20% wispy massive beds, weak deformation of bedding, fine calcite veining, fine gr. diss. po												
51.3	52.5	GRANODIORITE biotite-hornblende granodiorite, weak to moderate density of fractures @ 75° tea, bleaching around fractures, carbonate veinlets, minor quartz veins												
52.5	64.8	LIMESTONE, CHERT, ARGILLITE, BRECCIA laminated cherty sands, 75% light siliceous beds, 25% wispy massive to green to dark grey beds, bedding @ 40° tea, weak deformation, weak microfractures and carbonate veining, fine gr. diss. po < 1%												
		52.9-53.1 yellow to tan weakly brecciated carbonate cemented by calcite veins, sooty black oxide around po blabs apple green staining, 53.3-53.4 - same as above 53.6-53.8 - same as above												

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METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES									
FROM	TO			FROM	TO											
		54.1-54.6 weak brecciation of														
		tan to yellow fine gr cherts and														
		carbonates, open cavities, calcite														
		cemented fragments, patchy green														
		and brown staining														
		55.0 - calc-silicate bands														
		55.8 green stain, weak														
		microfracturing														
		56.6 2cm wide garnetiferous														
		stain band														
		56.8 fine disc pos along micro-														
		fractures														
		57.0 fine black crystals along														
		fractures, lime-yellow oxide stain,														
		molybdenite?														
		57.3 increasing density of														
		microfractures														
		57.7-58.8 weakly brecciated														
		tan to green stained beds;														
		fractured by calcite veins														
		and microfractures, black														
		calcite crystals, open														
		cavities, minor garnet														
		59.2 same as above, black sooty														

METREAGE		DESCRIPTION	SAMPLE NO.	METREAGE		LENGTH	ANALYSES							
FROM	TO			FROM	TO									
		oxide around pc clots, open cavities												
		59.9 quartz-feldspar band parallel to core angle												
		60.0-60.3 - green stained bands, weakly schistose, marcapite?, black scaly pc blobs, weak microfractures												
		60.7-62.8 several .2-.5cm wide carbonate veins parallel to bedding												
		62.8-64.8 marble bands and weakly brecciated yellow stained carbonate, weak microfracturing												
		63.5 green chloritic bedding planes, minor pc clots along bedding												
		63.8 blue-black metallic grains in calcite veinlets, increasing density of fracturing												
64.8	65.2	SKARN												
		apple green mottled fine gr rock, moderate microfracturing, fine dusty pc in fractures, 1% pc,												

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[illegible]

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