ASSESSMENT REPORT

1996 GEOLOGICAL AND GEOCHEMICAL PROGRAM

HEIDI PROPERTY

Heidi 13-24 quartz claims
Heidi 25-40 quartz claims
Mayo Mining District, Yukon

Heidi 43-47 quartz claims
Heidi 49 quartz claim
Heidi 55 quartz claim
Heidi 57-86 quartz claims
Dawson Mining District, Yukon

***Property Location**:*
90 Km NE of Dawson City, Yukon
NTS 116 A/5
Latitude: 64° 23' N Longitude 137° 38" W

Owner and operator:

HOMESTAKE CANADA INC.
1000 - 700 West Pender Street
Vancouver, B.C.
V6C 1G8

Report by:

Dominic Bordin, Project Geologist
Adrienne Ross, Field Geologist
Dave L. Kuran, Senior Geologist
Homestake Canada Inc.

***Field Work Completed:** June 15 - September 30, 1996*
***Report Completed:** December 15,1996*

SUMMARY

The Heidi property is 100% owned by Homestake Canada Inc. and is located 90 km northeast of Dawson City, Yukon. The property lies on the boundary of the Mayo and Dawson mining districts and is only accessible by helicopter. The property consists of 37 granted claims in the Dawson mining district and 24 granted claims in the Mayo mining district. A total of 65 claims are pending in the Mayo mining district.

The property is situated within the Selwyn Basin and is underlain by Late Proterozoic to Early Paleozoic Hyland Group rocks. Two distinct formations are recognized in the area: the Yusezyu Formation and the Narchilla Formation. The Yusezyu Formation, which consists of sandstone, grit bands and limy siltstone, is overlain by the maroon and green shales of the Narchilla Formation. Biotite porphyry dykes, mapped on the property, indicate that a buried intrusion may underlie the claims.

The Heidi claims were staked in 1995, to cover a new showing discovered while investigating a magnetic anomaly with a strong, coincident As/Sb stream silt anomaly. The showings consist of pyrite, arsenopyrite and stibnite/jamesonite replacing limestone and porous grit units near the axial plane of a ridge-scale anticline. The mineralization was exposed in trenches and chip sampling returned values up to 2.93 gm/t Au over 1.0 m.

The 1996 summer exploration program consisted of prospecting, geological mapping, soil sampling and trench re-sampling. A total of 462 soil and rock samples were collected on the property during the 1996 season. Sampling results identified several strong Au/As anomalies in soils and float along the Heidi ridge, up to 2000 metres west of the showings. A 2,000-3,000 metre diamond-drill program is recommended to test favourable replacement horizons within the ridge-scale anticline. The drilling would also test for possible Au mineralization within and adjacent to the buried Cretaceous stock which is thought to underlie the property.

Assay results from the southern portion of the property, along the panhandle of the claim block, were generally weak. Prospective geology, consisting of calcareous sandstone and diorite float was mapped and should be re-examined. No drill targets were identified in this area and the magnetic anomaly remains unexplained.

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1.0 INTRODUCTION

1.1 LOCATION AND ACCESS

The Heidi claims are located approximately 90 km northeast of Dawson City, Yukon at latitude 64 23'N and longitude 137 38" W. (Figure 1.1) The claims are bordered to the north by Lake Creek and to the south by the headwaters of Hamilton Creek. The claim block straddles the boundary of the Mayo and Dawson mining districts on NTS mapsheet 116 A/5.

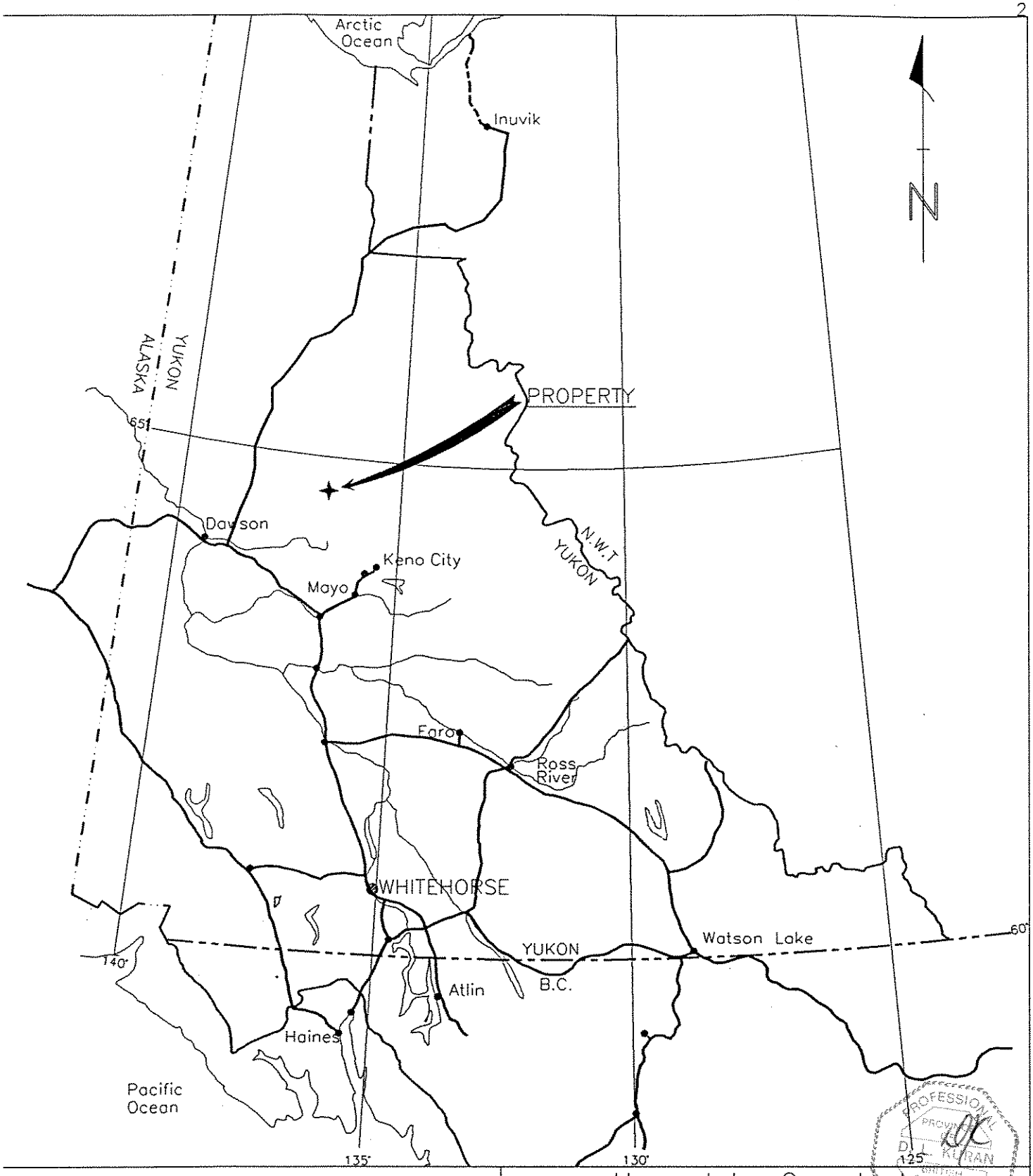
The property can only be accessed by helicopter. Flying time from Dawson City is approximately 0.6 hours but a Dempster Highway maintenance yard, located 70 km from the Dempster Highway turnoff, is within 25 km of the property and can be used as a staging point to airlift equipment into the Heidi claims.

1.2 PHYSIOGRAPHY, VEGETATION AND CLIMATE

The property is located within the Ogilvie Mountains physiographic region. East-west trending ridges are typically very steep on the north facing slopes and moderately steep (20-30 degrees) on the south facing slopes. Valley bottoms are at an elevation of approximately 4300 feet while most peaks are in the range of 6000-6500 feet.

Vegetation within the claim block consists entirely of alpine grasses, sedges and lichen, which makes for very easy walking. The situation changes dramatically in the lowlands of the Hamilton Creek and Lake Creek watersheds, where very thick buckbrush dominates the landscape.

The climate in the area is quite erratic during the exploration season. Typically, mornings are clear and sunny while showers are common in the afternoon. Temperatures tend to fluctuate but the days are generally warm from mid June to mid-August.



Homestake Canada Inc.

HEIDI CLAIMS
Dawson Mining District / Mayo Mining District

PROPERTY LOCATION MAP

Dawson Mining District / Mayo Mining District			Date: November, 1996
NTS: 116A/5	Drawn by: DB/AR	Scale: 1:6,000,000	Figure: 1.1

1.3 PROPERTY HISTORY

Prior to 1995, no known mineral exploration appears to have been conducted in the immediate vicinity of the Heidi claims. The nearest active quartz claims are the Lorrie Property and the Hami Claims located respectively 17 km southwest and 10 km southeast of the Heidi claims. Antimony Mountain, located 20 km west of the property, has also been the focus of much exploration activity. Brewery Creek, owned by Viceroy Resources is located 40 km southwest of the Heidi property. This property is scheduled to go into production in the fall of 1996, with a significant reserve of low grade, mainly intrusive-hosted gold mineralization.

On August 5, 1995, the Heidi 1-24 claims were staked by Aurum Geological Consultants, for Homestake Canada Inc., to cover a new gold showing discovered while investigating an elevated arsenic/antimony stream silt anomaly and a coincident magnetic anomaly. Mineralization, consisting of massive to disseminated arsenopyrite, pyrite and stibnite, was found on a steep slope overlooking Lake Creek and gold values up to 6460 ppb were obtained from grab and chip samples. The staking activity by Homestake Canada resulted in a small staking rush with Mar West Resources and several independent stakers staking in the immediate area. As a result, Homestake decided to immediately increase its land position to cover a second magnetic anomaly 3 km southeast of the Heidi showing. During the months of September and October 1995, Homestake staked an additional 55 full claims and fractions. Competitor staking activity also increased and the Heidi block was eventually completely enclosed by competitor claims. These include the Clare, Ho and Hi series of claims.

During the period September 16-27, 1995, Homestake contracted a trenching program on the showings to Aurum Geological Consultants from Whitehorse. Results from the trenching included: 2.06 gm/t Au over 1.0 m in Trench 95-3 and 2.93 gm/t Au over 1.0 m in Trench 95-5. Three samples from outside the trenches also ran in the 2-3 gm/t Au range.

On June 18, 1996, a survey crew from Yukon Engineering Services was commissioned by Homestake Canada to locate all the claim posts in the immediate area of the Heidi 1-24 claim block. Using GPS, the survey identified small gaps which were subsequently staked as HK series fractions by Homestake Canada Inc. field personnel. A copy of this location survey was submitted to the Mining Recorder in Mayo. A total of 13 HK fractions were staked during July and August 1996. In September, 1996 a Homestake crew returned to the Yukon to stake an additional 14 HK fractions.

Staking activity in the area is summarized in Figure 1.2.

2.0 CLAIM STATUS

2.1 MAYO MINING DISTRICT

As of October 31,1996, the only Heidi area claims that have been officially granted by the Mayo Mining Recorder's office are the Heidi 1-24 claims. All other claims are pending. Table 1-1 summarizes the status of claims staked by Homestake Canada Inc..

TABLE 1-1 CLAIM STATUS - Mayo Mining District (October 31/96)

CLAIM NAME	GRANT NUMBER AND CLAIM STATUS	NUMBER OF CLAIMS	EXPIRY DATE
Heidi 1-10	YB64644-653 (Granted)	10	August 16, 2001
Heidi 11-12	YB64654-655 (Granted)	2	August 16, 1998
Heidi 13-24	YB64656-667 (Granted)	12	August 16, 1997 *
Heidi 25	YB65121 (Pending)	1	October 2, 1998 *
Heidi 26-42	YB65122-138 (Pending)	17	October 2, 1997 *
Heidi 48	YB65139 (Pending)	1	October 2, 1997 *
Heidi 50	YB65140 (Pending)	1	October 2, 1997 *
Heidi 51-54	YB65141-144 (Pending)	4	October 2, 1997 *
Heidi 56	YB65145 (Pending)	1	October 2, 1997 *
Heidi 91-98	YB65148-155 (Pending)	8	October 2, 1997 *
Heidi 99-101	YB65156-158 (Pending)	3	October 2, 1997 *
Heidi 123-124	YB65146-147 (Pending)	2	October 2, 1997 *
HK 1-6	YB65559-564 (Pending)	6	July 16, 1997
HK 7-11	YB65757-761 (Pending)	5	August 9, 1997
HK 12-13	YB65860-861 (Pending)	2	August 30, 1997
HK 14- 27	Pending	14	Pending

* subject to approval of 1996 assessment work and cash in lieu of work payments

In order to maintain the Heidi claims in good standing, a combination of Certificate of Work applications and cash in lieu of work payments have been delivered to the Mining Recorder's office in Mayo. This report supports the Certificate of Work application filed for the Heidi 13-24 claims (Marsden Grouping) and the Heidi 25-40 claims (Heidi Grouping A). Although work done on the entire Heidi claim block is presented in this report, costs incurred from work within each grouping are presented as separate cost statements.(refer to Statement of Costs 8.1 and 8.2.)

2.2 *DAWSON MINING DISTRICT*

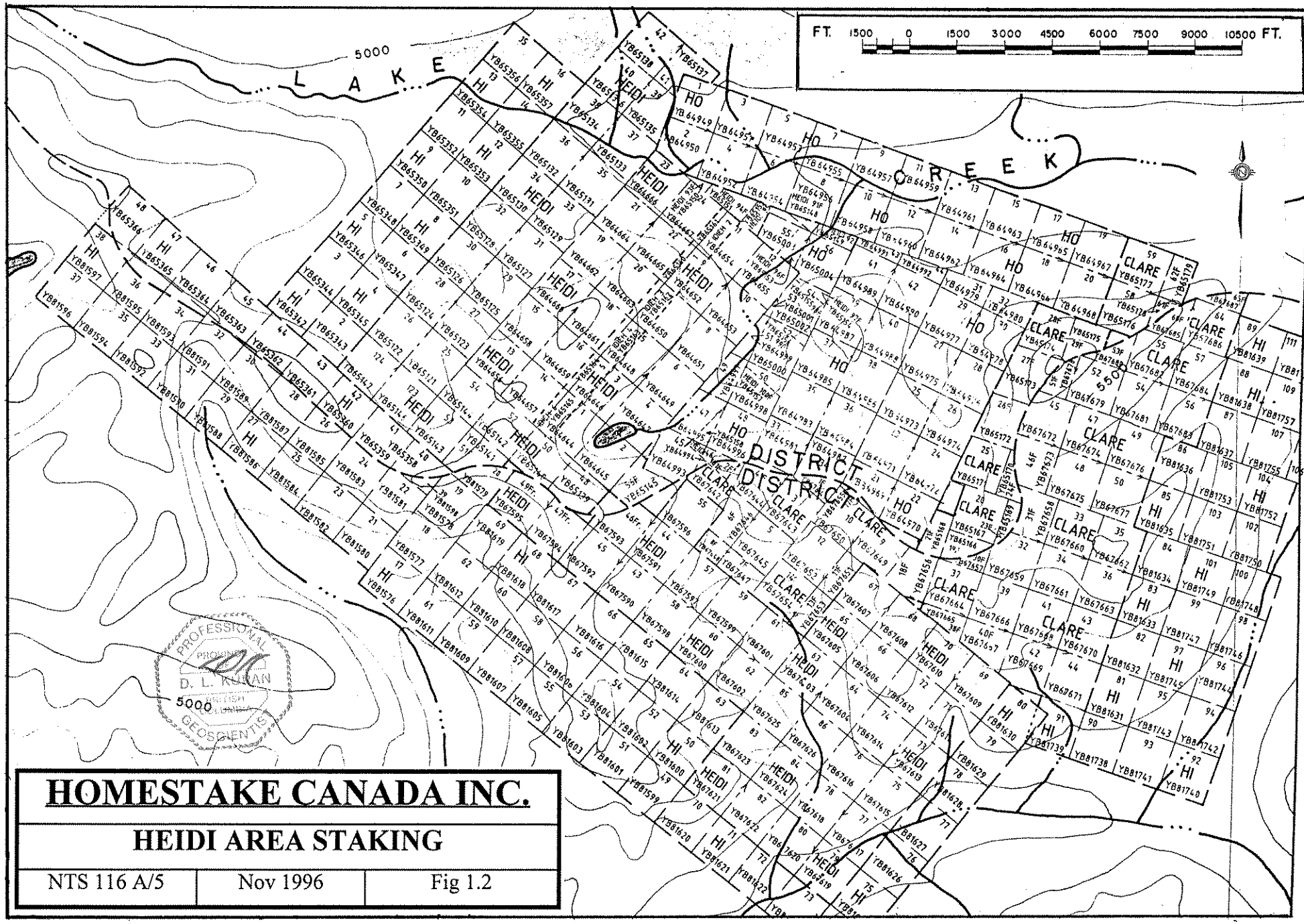
All the Heidi claims staked by Homestake Canada Inc. have been officially granted by the Dawson Mining Recorder.

TABLE 2.2 -CLAIM STATUS - Dawson Mining District (October 15/96)

CLAIM NAME	GRANT NUMBER AND CLAIM STATUS	NUMBER OF CLAIMS	EXPIRY DATE
Heidi 43-47	YB67590-594 (Granted)	5	October 12, 1999 *
Heidi 49	YB67595 (Granted)	1	October 12, 1999 *
Heidi 55	YB67596 (Granted)	1	October 12, 1999 *
Heidi 57-86	YB67597-626 (Granted)	30	October 12, 1999 *

* subject to approval of 1996 assessment work

This report supports an application for a Certificate of Work for three separate groupings of Heidi claims within the Dawson Mining District. Details of Grouping B (Heidi 43-47, 49 Fr., 55, 58), Grouping C (Heidi 57, 59-62, 76-86) and Grouping D (Heidi 63-75) are provided in Appendix III. The combined expenditures incurred within the groupings are presented in a Statement of Costs. (refer to section 8.3)



HOMESTAKE CANADA INC.

HEIDI AREA STAKING

NTS 116 A/5	Nov 1996	Fig 1.2

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The Heidi property is situated within the eastern Selwyn Basin, southwest of the Mackenzie Platform and within the Omineca Belt of the Canadian Cordillera. The regional geology has been described and mapped at 1:250,000 scale by Green(1972) and Tempelman-Kluit(1980). The Mackenzie Platform consist of a sequence of Middle Proterozoic to Middle Paleozoic carbonate and clastic sedimentary and volcanic rocks which were deposited on a subsiding continental shelf. The Selwyn Basin comprises a package of Late Proterozoic to Jurassic sedimentary rocks deposited in a deeper basin off the western margin of the platform. The area is bounded to the south by the northwest striking, steeply dipping Tintina Fault which separates the Selwyn Basin rocks from highly sheared and metamorphosed rocks of the Yukon-Tanana Terrane. Selwyn Basin rocks northeast of the Tintina Trench were displaced by three regionally extensive thrust sheets known as the Robert Service, Tombstone and Dawson thrusts. The northerly to northwesterly directed thrusting occurred during the Jura-Cretaceous compressional tectonic event and resulted in Proterozoic aged rocks being imbricated onto Devonian to late Jurassic strata. The sub-parallel thrust faults have been mapped on surface and extend in a northwesterly arc from the Keno Hill area to Dawson City.

The stratigraphic sequence in the area is dominated by rocks of the Hyland, Road River and Earn Groups. (Figure 3.1) The Late Proterozoic-Early Cambrian Hyland Group is a thick sequence of maroon and green shale, calcareous sandstone, grit and quartz pebble conglomerate(Abbot 1992, Gordey 1993) The Ordovician to Lower Devonian Road River Group consist primarily of interbedded black chert and argillite, with minor quartzite. The lithology of the Earn Group (Devonian-Mississippian) is a variable mix of black shale, greywacke and chert pebble conglomerate. A narrow northwesterly trending belt of Keno Hill Quartzite (Mississippian) and Jurassic Schist is also exposed in the base plate of the Robert Service Thrust.

Numerous granitic to syenitic stocks, dykes and sills are distributed across the southern portion of the Selwyn Basin. The intrusions occur in a belt parallel to, and approximately 45 kilometers east of the Tintina Fault. The intrusions are known as the Tombstone Suite (92 Ma). and were emplaced during the late stages of the Jura-Cretaceous compressional tectonic event. Typically, they are rimmed by a contact metamorphic aureole up to 1 km wide. The biotite hornfels alteration, which display a strong positive magnetic signature, is enriched with iron and, locally, with base and precious metals.

A gabbroic suite of intrusions, Triassic in age,(Mortenson and Thompson, 1990) has also been mapped in the area. The intrusions are typically sill-like and are predominantly concentrated in the Keno Hill Quartzite unit which forms the base plate of the Robert Service Thrust.

LEGEND FOR FIGURE 3.1

(Rock units between the Tintina Trench and the Dawson Thrust)

CRETACEOUS

mK	Tombstone Suite: Granodiorite and Biotite Quartz Monzonite

TRIASSIC AND JURASSIC

TrJs	Lower Schist

CARBONIFEROUS AND PERMIAN

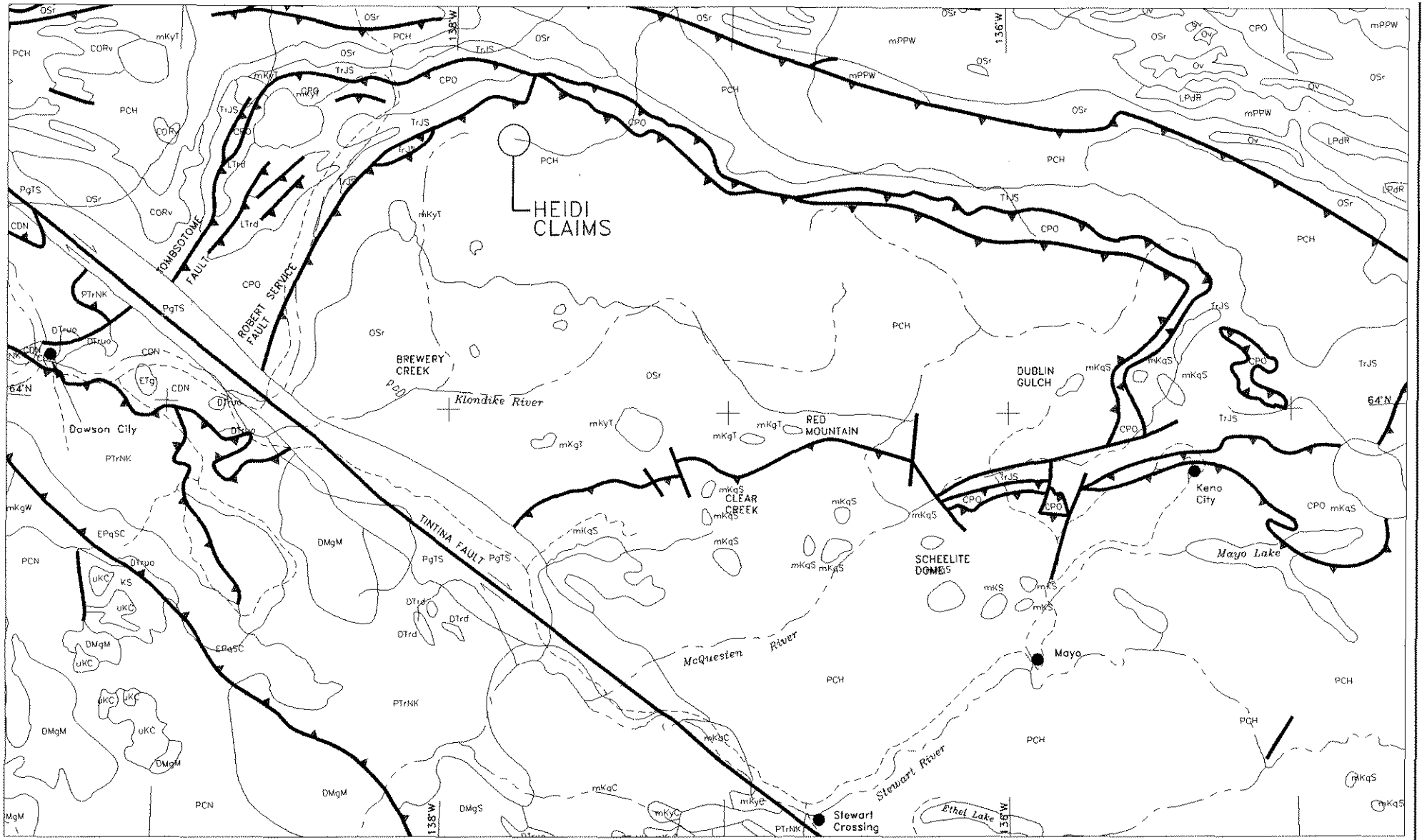
Cpo	Keno Hill Quartzite

ORDOVICIAN-SILURIAN

Osr	Road River Group: Shale, siltstone, argillite, chert, pebble conglomerate.

UPPER PROTEROZOIC-LOWER PALEOZOIC

PCH	Hyland group: Grey green and maroon shale, sandstone, quartz pebble conglomerate, minor limestone



LEGEND

- Road
- Major River
- Townsite
- Thrust Fault
- Strike slip Fault

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — D. CORAN

See table for Lithologies

Geology modified from:
Wheeler and McFeely, 1991

0 10 20 30 40
KILOMETRES

HOMESTAKE CANADA INC.

HEIDI PROPERTY

Dawson and Mayo Mining Diostricts

REGIONAL GEOLOGY

Homestake Canada Inc.	November 1996		
Scale : 1: 1000000	Modified by: DB	Supplied by: A Doherty	Figure : 3.1

3.2 REGIONAL MINERALIZATION

The Omineca Belt displays the greatest diversity of metal occurrences In the Canadian Cordillera. Deposit type and distribution is quite variable but includes vein, porphyry, skarn, stratiform and volcanogenic massive sulphide deposits. Metals that characterize the belt include Pb, Ag, Zn and Au (Sinclair et al, 1978)

The Selwyn Basin is host to a variety of deposits. Large stratiform, shale-hosted, sedimentary-exhalative Zn-Pb deposits are contained within the Anvil and Howards Pass districts. The districts occupy linear belts on opposite sides of the basin and include the Faro, Grum, Vangorda, XY, Anniv and OP deposits.

Skarn and replacement deposits are most commonly localized where mid-Cretaceous granitic plutons of the Selwyn, Cassiar and Tombstone suites intrude carbonate sequences or calcareous units within the Selwyn Basin. The intrusions themselves are known to host low-grade, Fort Knox style mineralization. The belt of Tombstone intrusions, which extends from Dawson City down through the Keno Hill district, is related to several active exploration targets in the area including Dublin Gulch, Clear Creek, Red Mountain, Scheelite Dome and Brewery Creek. Mineralization usually consist of gold-bismuth-arsenopyrite in sheeted veins and disseminations within the intrusions or in a fault-controlled setting spatially related to the intrusion. Other styles of mineralization include tin-tungsten and gold skarns, silver-lead-zinc veins, and silver-lead-antimony veins. A strong Au As, Bi, Sb,Hg, and Pb geochemical signature characterize the intrusions and their alteration aureoles.

3.3 PROPERTY GEOLOGY AND MINERALIZATION

The Heidi claim block is underlain by sedimentary rocks of the Upper Proterozoic-Lower Paleozoic Hyland Group. Two distinct formations within the Hyland Group, the Yusezyu Formation and the Narchilla Formation, outcrop on the property.

The Yusezyu Formation consists of rusty weathering gritty quartzite, sandstone, and quartz pebble conglomerate with up to 80 or 90% rounded quartz grains. Minor interbeds of limestone, calcareous sandstone and shale are common. The Narchilla Formation consists of black, maroon and green shales and slates. This unit is quite distinct and is usually identifiable from a distance.

The Heidi showing consist of 5%-50% massive to disseminated arsenopyrite,. pyrite and stibnite/jamesonite replacing limestone and calcareous grit units. Irregular, narrow quartz/arsenopyrite veins intersect the mineralized beds and probably channeled the mineralizing fluids into the favourable horizons. The mineralization is quite poddy but is mainly localized within the recumbantly folded south limb of the Heidi anticline, near the Yusezyu/Narchilla contact. The mineralization is contained within an area measuring approximately 300m long and 100m high.

4.0 1996 FIELD PROGRAM

4.1 MAPPING AND SAMPLING PROGRAM

A detailed prospecting program was completed on the Heidi claims during the summer of 1996. The program was undertaken to follow-up encouraging results obtained in 1995 and to determine the cause of two separate magnetic anomalies on the property. A tent camp was established on the property and a 2-6 person crew worked on the claims from July 10 to August 30.

The summer program involved sampling and 1;10,000 scale mapping of the entire Heidi claim block(Figure 3.8-"in pocket"). Areas within the northern portion of the claim block were mapped and sampled from the Heidi base camp but a fly camp was set-up to complete work on the southern panhandle of the claims. Most sampling traverses were either contour or hip-chain controlled, using topographic features or claim posts as location references.

A soil grid measuring 1800m by 500m was established on the Heidi ridge. Grid line spacing was 100m at azimuth 030. Soil samples were spaced at 50m intervals with fill-in sampling at 25m intervals. A total of 180 soil samples were collected from 10,500 metres of soil grid (Figure 5.1-"in pocket"). Grid controlled mapping, at 1:2,000 scale, was completed over the entire Heidi ridge.

The 1995 Heidi trenches were re-mapped at 1:100 scale and carefully re-sampled. The detailed mapping was completed to determine the mineralizing controls of the Heidi showings and will be used by M. Papageorge as the focus of a U.B.C undergraduate thesis. A total of 27 chip and grab samples were collected from the trenches.

Overall, sampling on the entire claim block totaled 264 soil samples and 198 rock samples.

4.2 SAMPLING METHOD

Soil samples were obtained using a Geotul mattock. Most of the samples were collected on 20-30 degree slopes and were often poorly developed and rich in talus fines. Samples were bagged in kraft sample bags and labeled with grid location coordinates or sample tag numbers. Trench samples were carefully chipped across measured intervals, bagged and tagged. The trench diagrams display the location and length of each sample.

4.3 Analytical Method

All of the samples collected were sent to IPL Laboratories in Vancouver for sample preparation and analysis. Silt and soil samples were dried and screened to -80 mesh. Rock samples were crushed to -10 mesh, split into a 250 gram sample and

pulverized to 90% -150 mesh. A 30 gram portion was then analyzed for gold using the standard Fire Assay method with an A.A. finish. Assays over 1000 ppb Au were re-done with a gravimetric finish. A 30 element I.C.P. analysis was completed for each sample.

5.0 RESULTS

5.1 MAPPING PROGRAM

Grid mapping on the northern portion of the property, along the Heidi ridge, identified a lower package of coarse grained, thick bedded Yusezyu sandstone interbedded with phyllitic shale, coarse pebbly sandstone and thin limestone beds. An upper package of green micaceous sandstone interbedded with maroon and green shales probably represents a transition into the Narchilla shales. Structural deformation along the ridge is quite intense and the ridge itself appears to be a large scale anticline.. Tightly folded beds with axial planes at 100/30 south plunge 40 degrees at azimuth 240.

The geology of the southern portion of the Heidi property consists primarily of Yusezyu Formation sandstone with numerous shale partings. Bedding measurements are typical for the region, with strikes in the 90-120 range and dip measurements in the 30-50 range. A 50-100m interval of Narchilla shale was mapped on the ridge southwest of Heidi Lake. The shale unit appears to lie unconformably on a thick package of sandstone and coarse grit and is intensely deformed along a low angle fault which dips to the south. A second interval of Narchilla shales was mapped further south, on the panhandle of the claim block. This repetition of the stratigraphic sequence , moving north to south , can only be explained by east-west striking, property scale faulting or thrusting.

Several dykes of coarse biotite-feldspar porphyry were mapped on the Heidi ridge and near Heidi Lake Their presence hints that a larger granitic stock may exist at depth beneath the claims, as suggested by the magnetic anomaly centered on Heidi Lake. Extensive hornfelsing, typically associated with Cretaceous granitic stocks, was not observed on the Heidi claims, implying that a buried stock would be at least 100m below surface.

Igneous rocks were notably absent over the southern magnetic anomaly with the exception of minor dioritic float found at UTM 7139500N/375500E.

Quartz veining is common on the property, particularly in areas of interbedded shale and sandstone. The veins are typically 1-10 centimeters thick with the exception of a 1-2 metre thick vein mapped on the southern claim block at UTM 7139100N/375750E. Extensive quartz float with strong copper values(up to 3386 ppb) was also mapped and sampled near UTM7138500N/374000E.

5.2 SOIL SAMPLING PROGRAM

Results from the soil sampling grid were very encouraging. Two strong Au/As/Sb geochemical anomalies were identified along the ridge extending west from the Heidi showing.(Fig. 5.1-in pocket) The source for each of the anomalies measures approximately 200x300m and correlates well with sparse mineralized float found on the ridge. A third anomaly, located at the base of the grid on line 1+00N between 1+00W and 4+00W , returned values up to 1150 ppb Au in soil samples and again, coincides with heavily mineralized float .

Contour sampling on the north slope of the Heidi ridge also identified moderate to strong geochemical anomalies. Samples with up to 940 ppb Au and 1880 ppb As were obtained. Three anomalous clusters extend essentially along the entire base of the ridge.

Sampling results from the southern portion of the property were generally flat. The only exception is a strong As anomaly which coincides with the location of the dioritic float found in this area. A soil sample returned 875 ppb As and a float sample returned 231 ppb As. Both samples returned insignificant gold values.

5.2 TRENCH MAPPING/SAMPLING PROGRAM

Descriptions of the trench geology are summarized for each individual trench. Sampling results are listed in Table 5.1. The geology and sample sites are shown in Figures 3.2 to 3.7.

The lowermost showing includes a package of fine to medium grained sandstone, coarse quartz pebble sandstone with a calcareous matrix, a dirty limestone unit, and a foliated intrusive unit. In the proximity of the showing, the whole package is weathered brown to orange.

The showing is situated in a synclinal fold hinge. The fold itself is recumbent, with the southern limb beds overturned. The fold hinge plunges 24° towards 120. Foliation in the area strikes between 070 - 090 and dips roughly 40°. An en-echelon sigmoidal vein system is seen with a shear zone boundary striking 170.

Mineralization is contained within an area approximately 5 metres wide by 10 metres long. The area contains both barren quartz veins and quartz/arsenopyrite/pyrite veins. The veins strike between 220 and 240 and dip between 65° to 90°. The core of the fold is composed of a coarse calcareous sandstone unit which has been extensively replaced by arsenopyrite/pyrite mineralization. The surrounding finer grained sandstone unit hosts some pyrite mineralization (<5%).

Trench #5 is composed of the foliated intrusive and a thick interval of coarse calcareous sandstone. The trench is proximal to the fold hinge. This interpretation is supported by the repetition of units and tops indicators on either side of the trench, suggesting the presence of a recumbent fold.

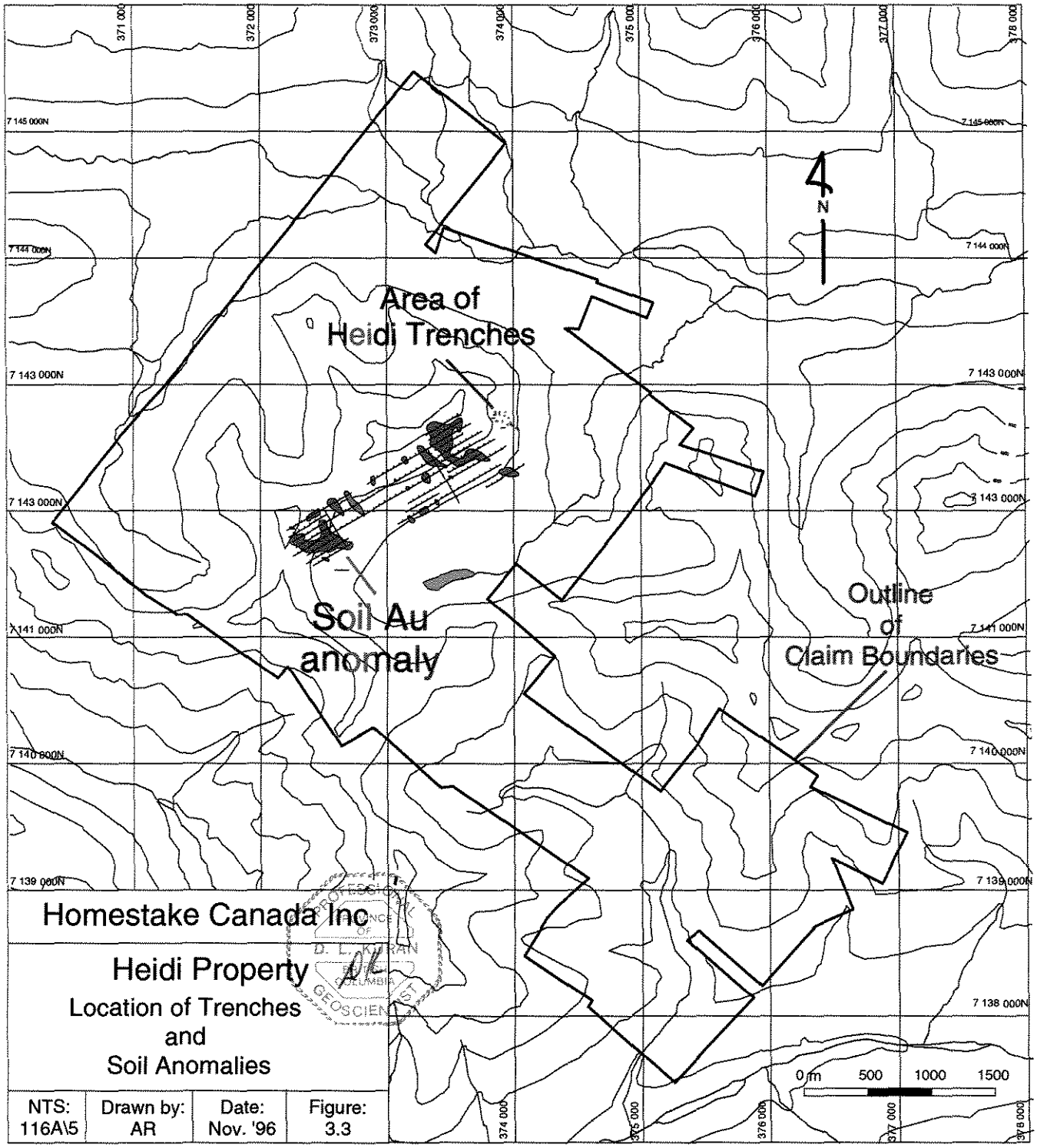
The mineralization is again hosted in the thick package of coarse calcareous sandstone and in vertical, north-south striking veins of pyrite, arsenopyrite and jamesonite. The vein hosted arsenopyrite is commonly developed into large euhedral crystals. Matrix replacement is predominantly with pyrite and to a lesser extent with arsenopyrite, although it is very extensive when it occurs.

Trench #4 is located beneath a large outcrop of fine grained sandstone, which is overlain itself by the same coarse calcareous sandstone exposed in Trench #5 and the lowermost showings. Mineralization is hosted in a limestone bed which measured 084/38 and lies at the base of the large outcrop. The mineralization consists of heavy pods and crystals of arsenopyrite occurring as replacement within the limestone unit, and a series of veins feeding up into the fine-grained sandstone unit.

Trench #3 is located within shale and dirty limestone units which strike 108/55. The shale unit is altered to a bleached yellow-white color and is characterized by weathered out pyrite casts. The limestone unit displays heavy arsenopyrite/pyrite replacement, similar to Trench #2 and Trench #4.

Trench #2 exposed a bedded package of shale, calcareous grit and sandstone which measured 110/50. The massive arsenopyrite mineralization is up to 3 metres thick and 10 metres long and is confined within the dirty grit/limestone unit.

Trench #1 is located within the same package but up-dip of Trench #2. Mineralization is similar but generally more poddy and veined. Numerous small fractures offset shale beds interbedded with the mineralized, coarse grained, quartz pebble sandstone unit.



Homestake Canada Inc

Heidi Property

Location of Trenches
and
Soil Anomalies

NTS:	Drawn by:	Date:	Figure:
116A\5	AR	Nov. '96	3.3

Hyland Group

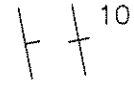
- PCH — Narchilla Formation
- PCH — Yusezu Formation (undivided)
  - ls — Dirty Limestone
  - qtzt — Quartzite
  - int — Intrusive
  - cgrit — Calcareous Grit

Symbols

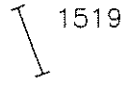
Geolocic Contact: known, inferred

Showing

Mineralized Area of Trench



Bedding, Vertical Bedding with measurement

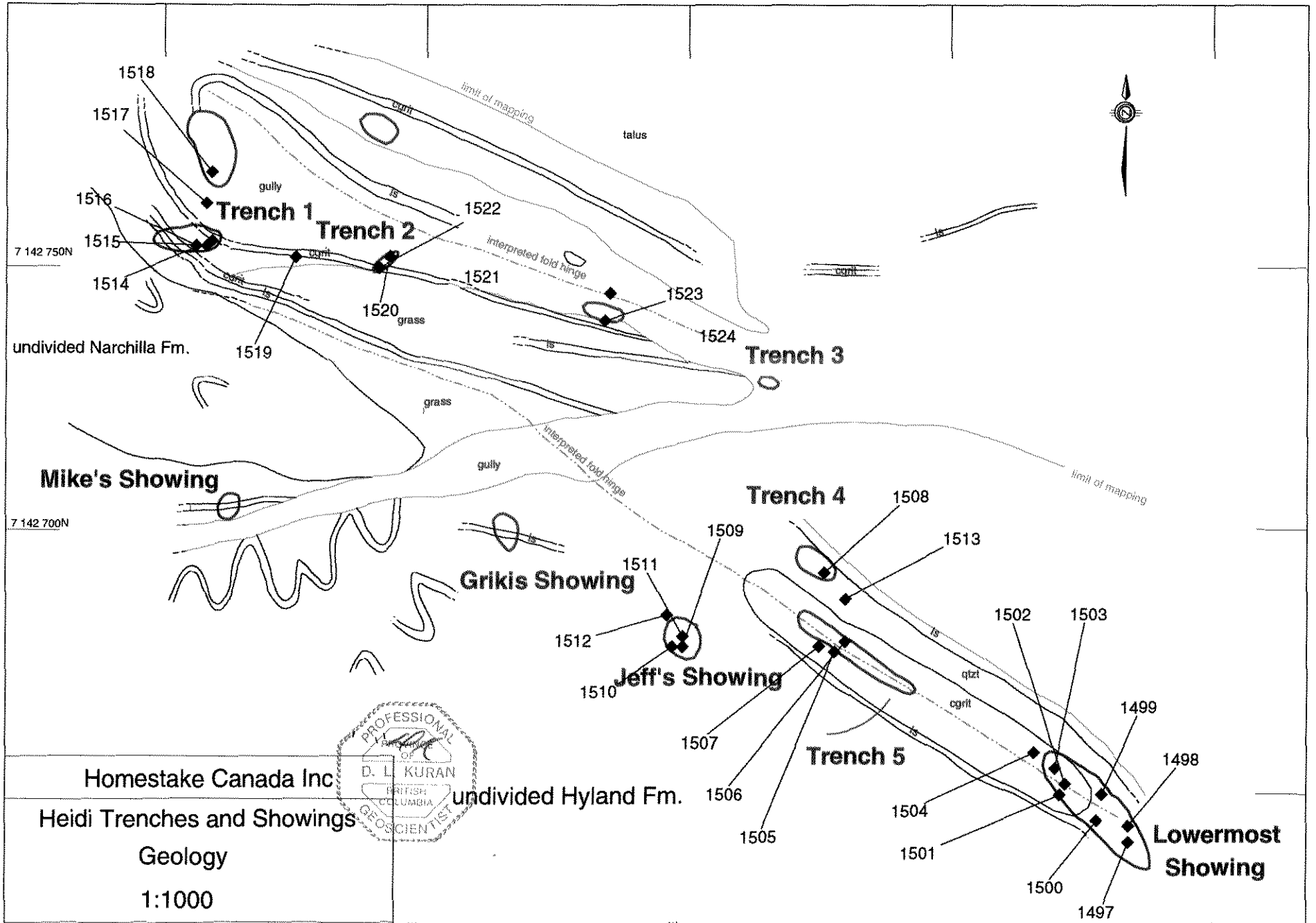


Chip Sample and Number

Fault

Fold – anticline, syncline

Figure 3.3a – Legend



Homestake Canada Inc

Heidi Trenches and Showings

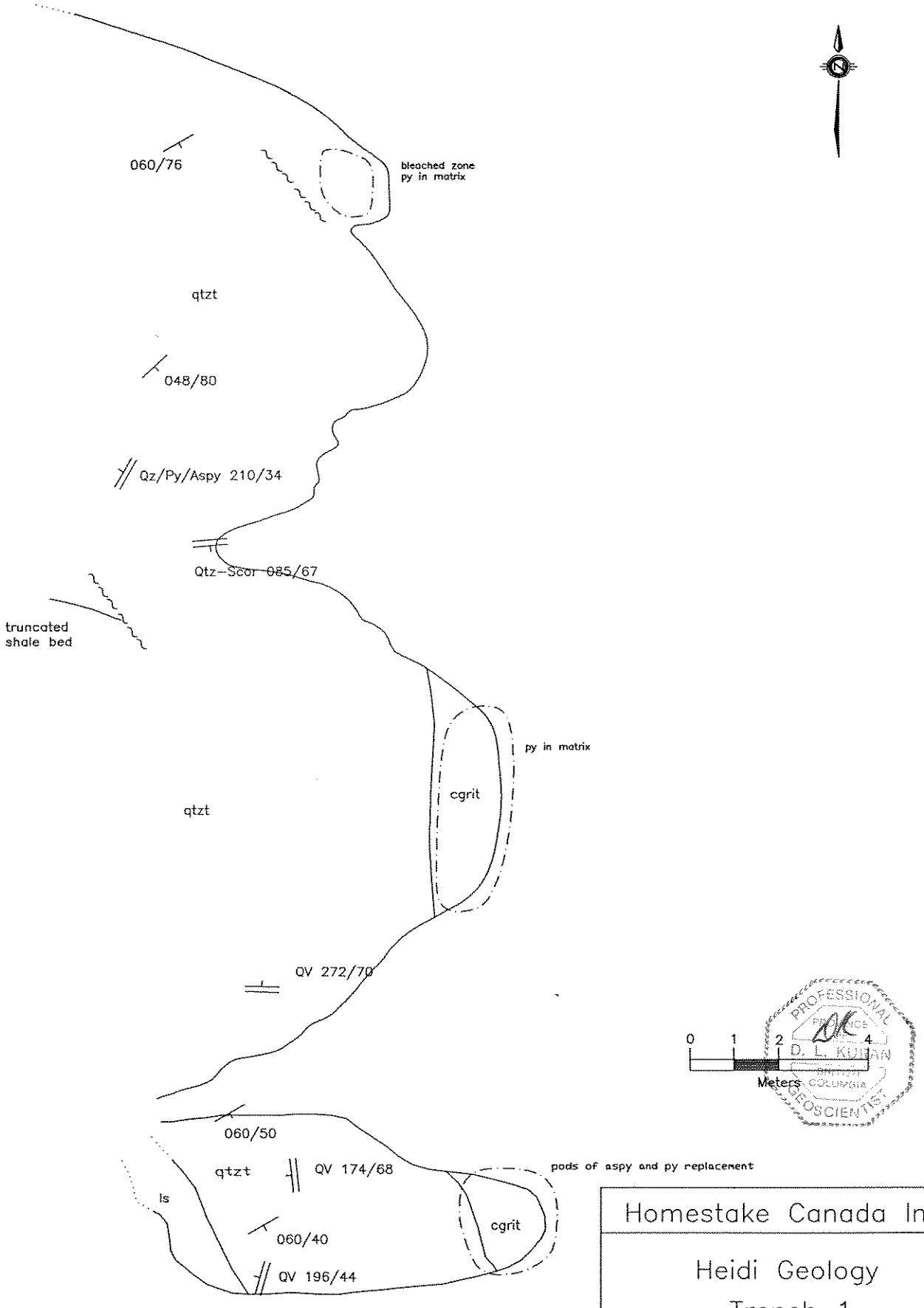
Geology

1:1000

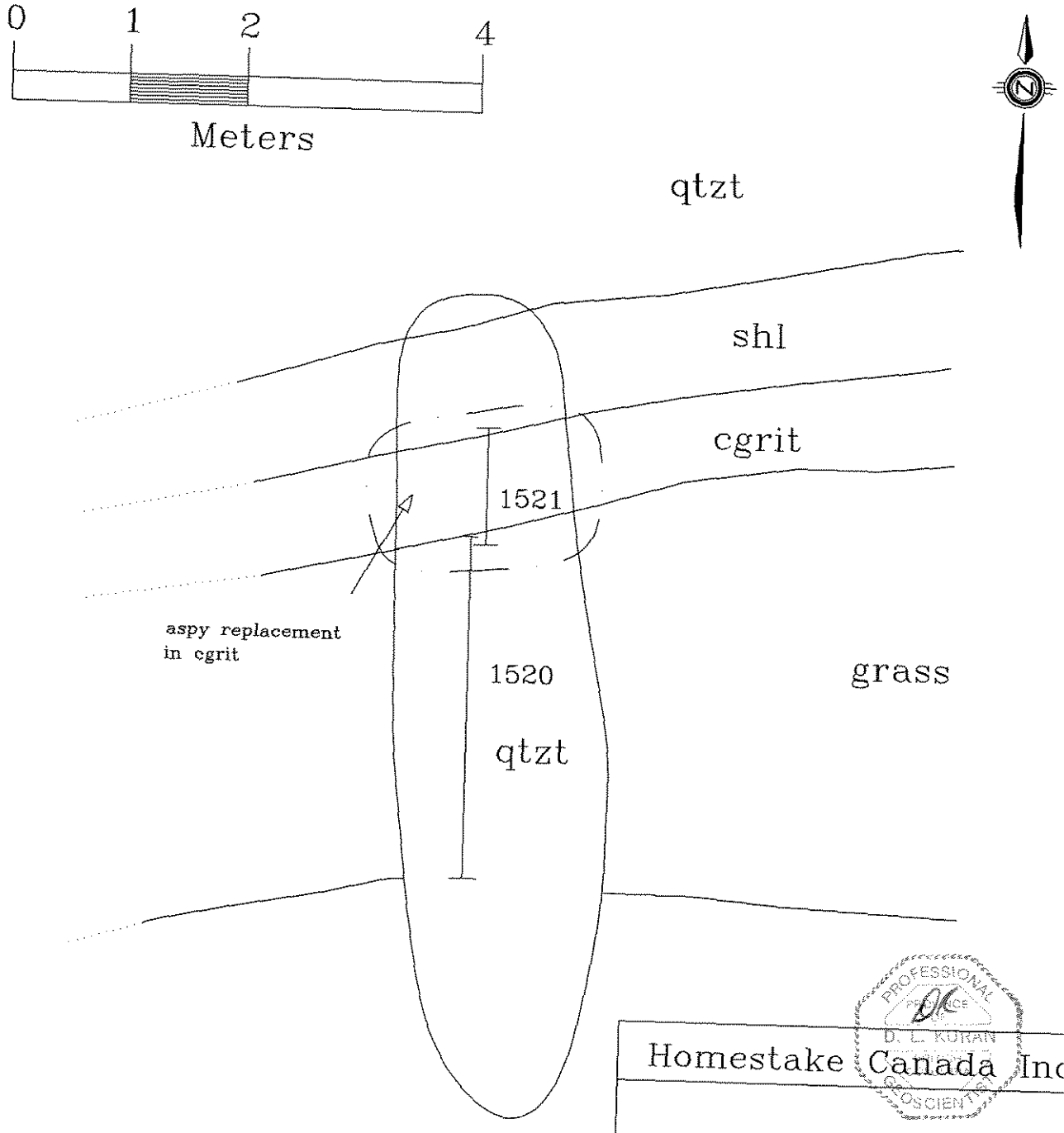
NTS	Date	Mapped by:	Figure
116A\5	Nov.'96	M. Papageorge	3.3b

TABLE 5.1 1996 TRENCH SAMPLING RESULTS

SAMPLE SITE	SAMPLE #	Au (ppb)	As (ppm)	Sb (ppm)	Bi (ppm)
LOWERMOST SHOWING	1497	49	1824	113	6
	1498	660	5.7%	645	132
	1499	87	1.1%	60	4
	1500	76	5167	85	16
	1501	351	5.3%	293	391
	1502	143	9472	354	56
	1503	41	6574	41	13
	1504	20	160	12	Trace
TRENCH #5	1505	5600	8715	284	73
	1506	39	9681	139	138
	1507	77	1.2%	238	158
TRENCH #4	1508	603	8.7%	615	308
TRENCH #5	1509	496	4451	58	36
	1510	6667	4.5%	2599	620
	1511	833	13%	486	469
	1512	61	5596	71	562
	1513	1167	1273	109	82
TRENCH #1	1514	847	2.0%	92	62
	1515	65	2302	39	21
	1516	1200	766	350	68
	1517	47	133	32	Trace
	1518	19	68	14	Trace
TRENCH #1/#2	1519	229	72	63	Trace
TRENCH #2	1520	503	16%	950	0.2%
	1521	171	9701	686	371
	1522	21	990	18	12
TRENCH #2/#3	1523	24	820	22	Trace



Homestake Canada Inc.			
Heidi Geology Trench 1			
NTS: 116A/5	Drawn By: M. Papageorge	Nov. '96	Fig. 3.4

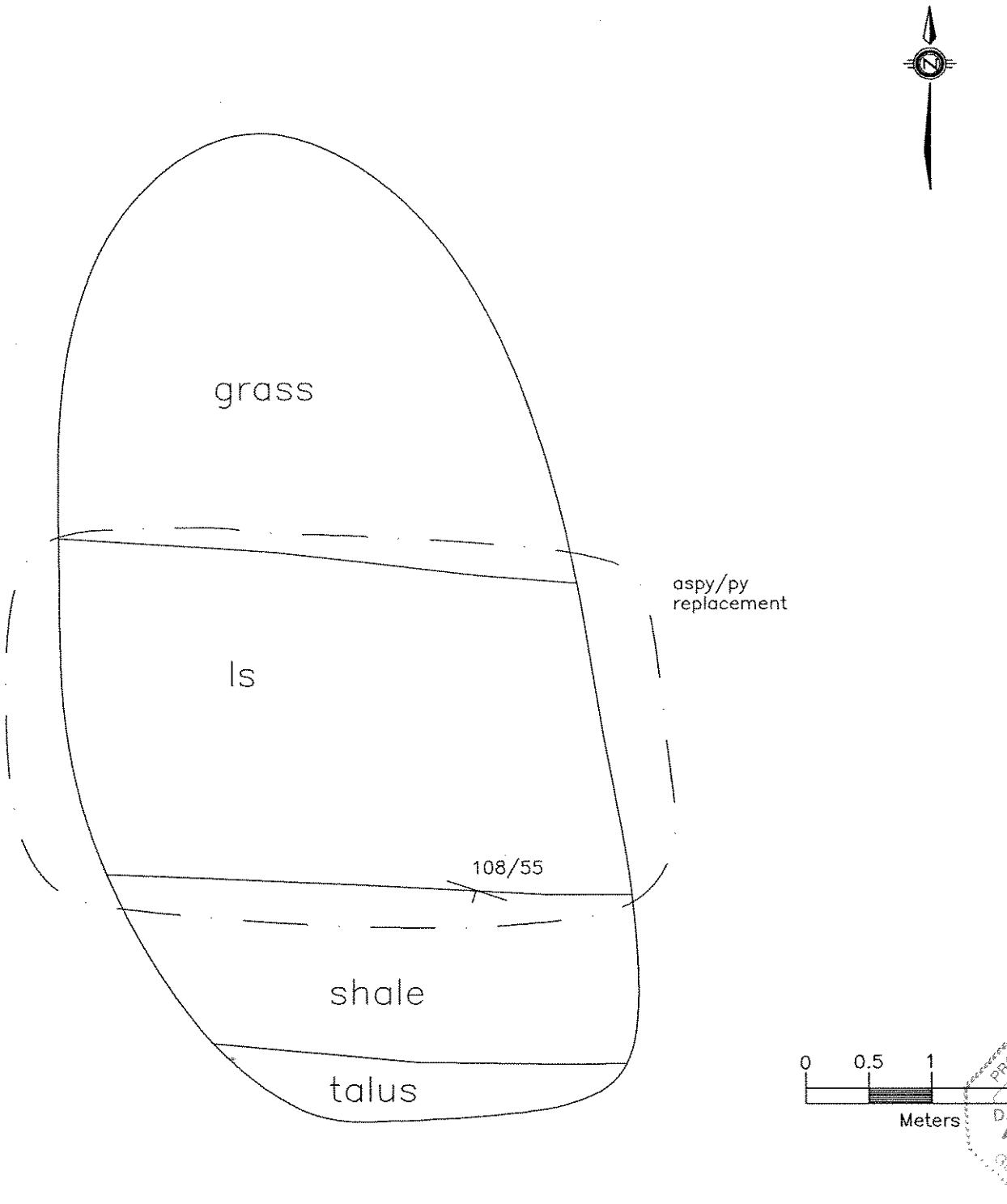


PROFESSIONAL GEOSCIENTIST
D. L. KURAN

Homestake Canada Inc.

Heidi Geology
Trench 2

NTS: 118A/5	Drawn By: Mike Papageorge	Nov. '96	Fig. 3.5

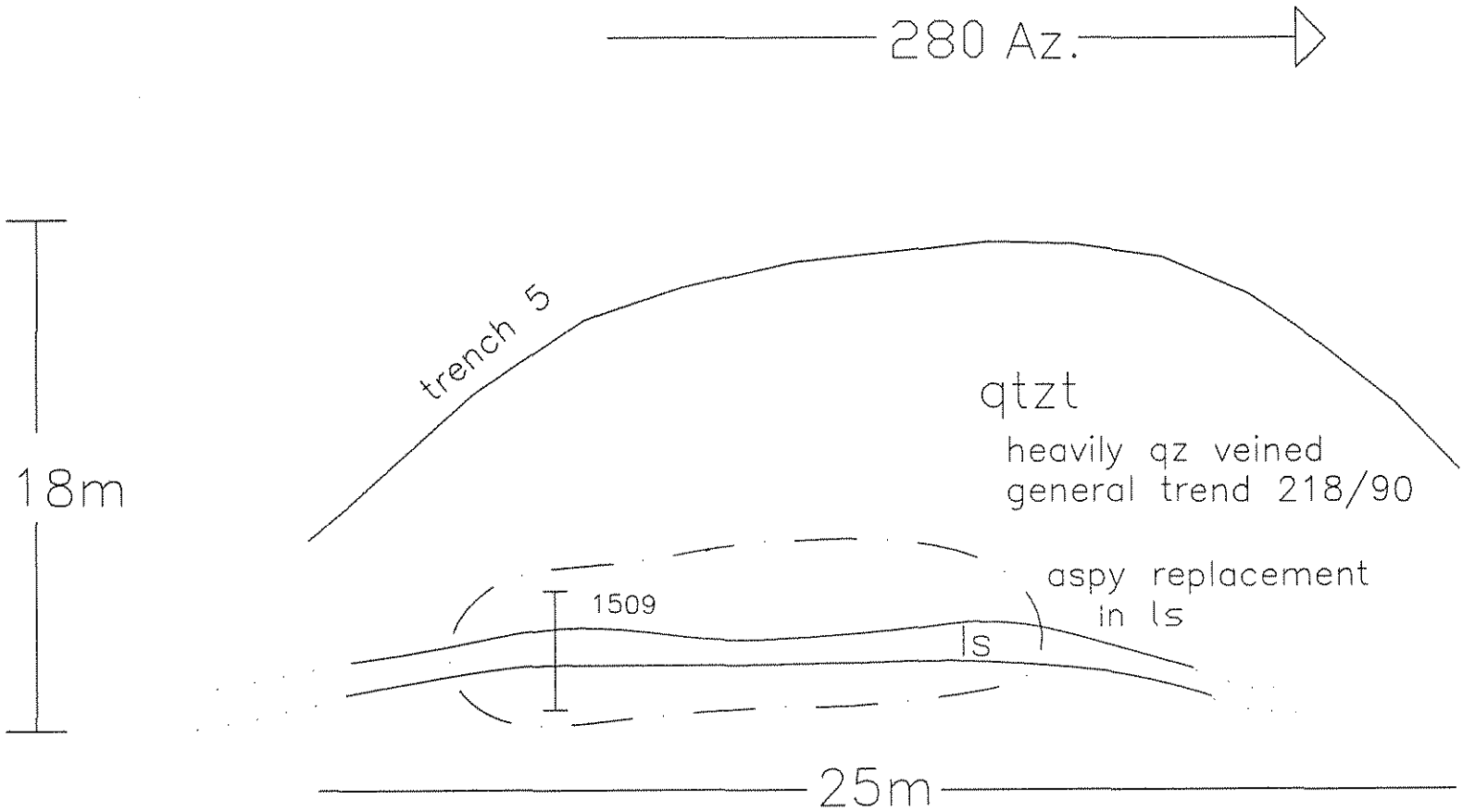


Homestake Canada Inc.

Heidi Geology

Trench 3

NTS: 116A/5	Drawn By: Mike Papageorge	Nov. '96	Fig. 3.6



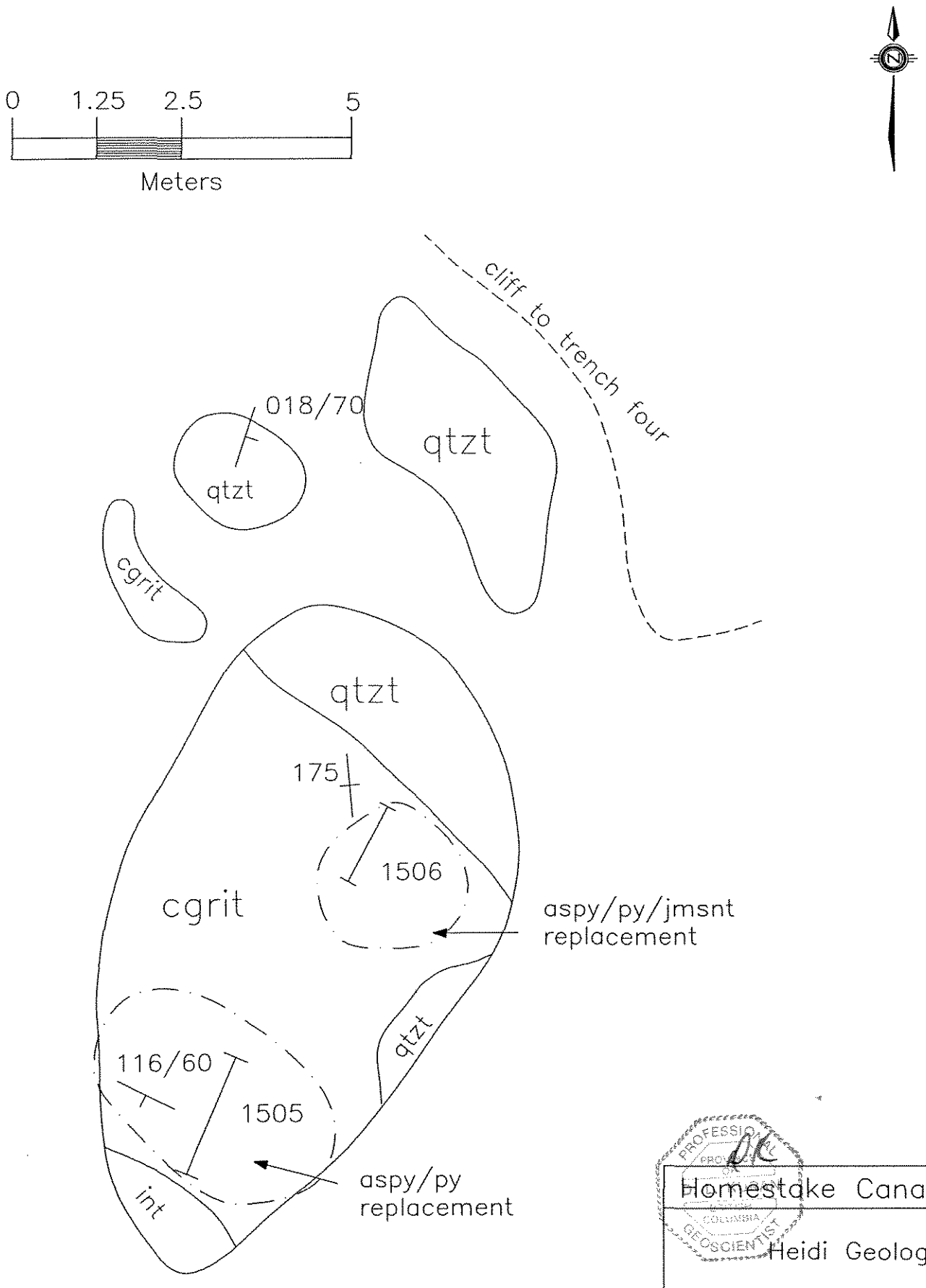
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. KURAN
GEOSCIENTIST

Homestake Canada Inc.

Heidi Geology

Trench 4

NTS: 116A/5	Drawn By: M. Papageorge	Nov. '96	Fig. 3.7

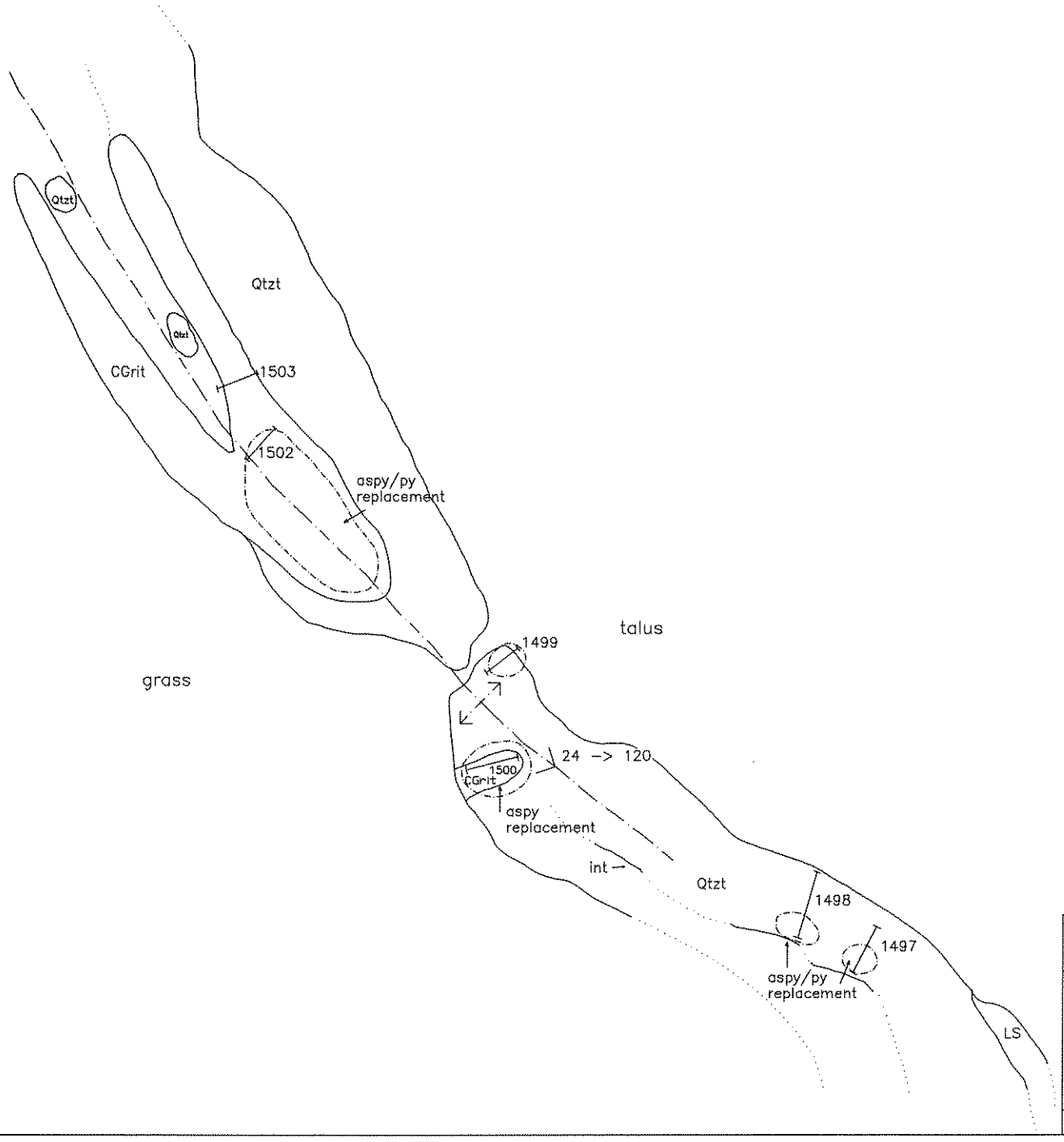


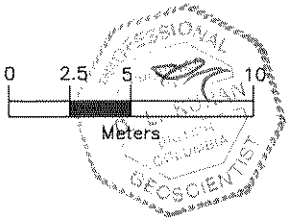
Homestake Canada Inc.

Heidi Geology

Trench 5

NTS: 116A/5	Drawn By: M. Papageorge	Nov. '96	Fig.3.8





Homestake Canada Inc.

Heidi Geology
Lowermost Showing

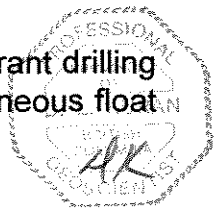
NTS: 116A/5	Drawn By: M. Papageorge	Nov. '96	Fig. 3.9

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the coincident distribution of soil anomalies and mineralized float, it appears probable that the entire Heidi Ridge is at minimum, sporadically mineralized. The folded and faulted calcareous grit and limestone units, within the core of the Heidi anticline, are permissive host rocks for an Au, replacement type deposit. Soil sampling on the ridge identified over 2000 metres of mineralized strike length. Re-sampling of the Heidi trenches confirmed that grades are generally in the 1-7 grams Au/Tonne range.

A 2000-3000 metre diamond drill program is recommended to further assess the Heidi ridge. Drilling would test for possible extensions of the Heidi mineralization to the west and down dip of the showings. The projected intersection of the favourable horizons and a possible buried intrusive would also be targeted.

Areas south of Heidi Lake, along the panhandle of the claims, do not warrant drilling but additional prospecting is recommended to identify the source of the igneous float and the elevated arsenic values over the southern magnetic anomaly.



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3.0 : STATEMENT OF COSTS

3.1 : HEIDI PROPERTY - JANUARY 1996 TO OCTOBER 1996

DESCRIPTION		NET($)	
.0 SALARIES	(IN-HOUSE)		
	Technical	375.00	
	Support	2362.50	
	Seasonal	39,592.50	
		Subtotal	42330.00
.1 FEES	(CONSULTANTS)		
	Geological	5620.50	
		Subtotal	5620.50
2.0 GEOPHYSICS			
	Ground	0	
	Airborne	0	
	Remote Sensing	0	
		Subtotal	0
3.0 DRILLING			
	Surface	0	
	Mob/Demob	0	
	Fuel	0	
	Supplies	0	
		Subtotal	0
4.0 ANALYSIS	(ASSAY, METALLURGICAL)		
		8084.10	
		Subtotal	8084..10

5.0 FIELD/CAMP

Field Supplies	1543.85	
Camp costs	387.86	
Camp construction	61.72	
Expediting	0	
Subtotal		1993.43

6.0 SURFACE WORK

Line cutting	0	
Trenching/Pitting	0	
Subtotal		0

7.0 ENVIRONMENTAL/RECLAMATION

Baseline studies	0	
Permitting	0	
Reclamation	0	
Subtotal		0

8.0 PROPERTY MAINTANENCE

Staking	9179.98	
Land surveying	12785.35	
Option/Lease/Acquisition	0	
Claim holding costs	823.77	
Taxes	0	
Lease retal payments	0	
Fixed advanced royalties	0	
Variable advanced royalties	0	
Subtotal		22789.10

9.0 TRAVEL

Lodging	6342.85	
Meals	1615.50	
Airfare	0	
Taxi/Car rental/milage	1359.90	
Subtotal		9318.25

10.0 TRANSPORTATION

Vehicle lease/rental	1901.38	
Vehicle operating/maintanence/repair/gas	449.58	
Helicopter	32677.50	
Helicopter Fuel	4910.00	
Misc. Flights	0	
	Subtotal	39938.46

11.0 SUPPORT ACTIVITIES

Communications	5458.42	
Maps/publications/photo	1854.85	
Drafting	0	
Office supplies	92.38	
Freight/shipping	406.90	
	Subtotal	7812.55

12.0 OTHER A&G/MANAGEMENT FEE

Legal	0	
Business meetings & entertainment	0	
Dues/Memberships	0	
Professional education/seminars/conventions	0	
Donations	0	
Rent - Office and storage	62.50	
Management fees	0	
Office equipment	0	
Computer equipment	913.54	
Miscellaneous fees	0	
Insurance	0	
Data processing costs	0	
Allocated administration	0	
Miscallaneous A&G costs	0	
	Subtotal	976.04
	TOTAL	**138862.43**

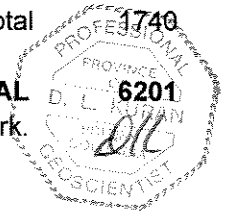
3.0 STATEMENT OF COSTS

3.2 : HEIDI 13 - 24 CLAIMS - MAYO MINING DISTRICT

Field Work Completed Between July 11 and July 26, 1996.

DESCRIPTION	AMOUNT	RATE ($)	NET($)	
1.0 SALARIES (IN-HOUSE)				
Dominic Bordin - Project Geologist				
Field Work	1 day	$240	240	
Mike Papageorge- Student Geologist				
Field Work	5 days	$145	725	
Jeff Lewis - Student Geologist				
Field Work	5 days	$155	775	
2.0 CONSULTANTS			Subtotal	1740
Henry Marsden -Consulting Geologist	3 days	$320	960	
			Subtotal	960
3.0 ANALYSIS				
Rock / Soil Sample Assay	46	$18.50	851	
			Subtotal	851
4.0 FIELD/CAMP CONSUMABLES				
Field Supplies And Camp Costs	13 days	$70.00	910	
			Subtotal	910
5.0 TRANSPORTATION				
Helicopter	2.4 hours	$725	1740	
			Subtotal	1740
			TOTAL	**6201**

NOTE: Work valued at $1200.00 was claimed on the Application for a Certificate of Work.



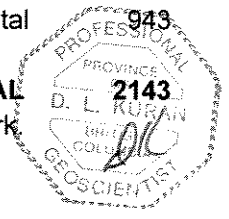
3.0 STATEMENT OF COSTS

3.3 - HEIDI 25 - 40 CLAIMS :MAYO MINING DISTRICT

Field Work Completed July 22, August 10.
Office Work Completed September 13

DESCRIPTION	AMOUNT	RATE ($)	NET($)	
1.0 SALARIES (IN-HOUSE)				
Dominic Bordin - Project Geologist				
Field Work	1 day	$240	240	
Report Writing	1 day	$240	240	
Adrienne Ross - Field Geologist				
Drafting	1 day	$200	200	
			Subtotal	680
2.0 CONSULTANTS				
Henry Marsden -Consulting Geologist	1 day	$320	320	
			Subtotal	320
3.0 ANALYSIS				
Rock / Soil Sample Assay	7	$18.50	130	
			Subtotal	130
4.0 FIELD/CAMP CONSUMABLES				
Field Supplies And Camp Costs	1 day	$70.00	70	
			Subtotal	70
5.0 TRANSPORTATION				
Helicopter	1.3 hours	$725	943	
			Subtotal	943
			TOTAL	**2143**

NOTE: Work valued at $1700.00 was claimed on the Application for a Certificate of Work



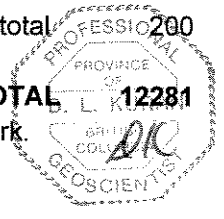
3.0 STATEMENT OF COSTS

3.4-HEIDI 43-47,49,55, 57 - 86 CLAIMS -DAWSON MINING DISTRICT

Field Work Completed June 16, August 1-3, August 8, 9, 27, 1996
Office Work Completed September 16-20, 1996

DESCRIPTION	AMOUNT	RATE ($)	NET($)	
.0 SALARIES (IN-HOUSE)				
Dave Kuran- Senior Project Geologist	1 day	$325	325	
Dominic Bordin - Project Geologist				
Field Work	5 days	$240	1200	
Report Writing	5 days	$240	1200	
Adrienne Ross - Field Geologist				
Field Work	5 days	$200	1000	
Drafting	3 days	$200	600	
			Subtotal	4325
.0 ANALYSIS				
Rock / Soil Sample Assay	64	$18.50	1184	
			Subtotal	1184
.0 FIELD/CAMP CONSUMABLES				
Field Supplies And Camp Costs	10 days	$70.00	700	
			Subtotal	700
.0 TRANSPORTATION				
Helicopter	8.1 hours	$725	5872	
			Subtotal	5872
.0 SUPPORT ACTIVITIES				
Communications			100	
Freight/shipping			100	
			Subtotal	200
			TOTAL	**12281**

NOTE: Work valued at $12,000 was claimed on the Application for a Certificate of Work.



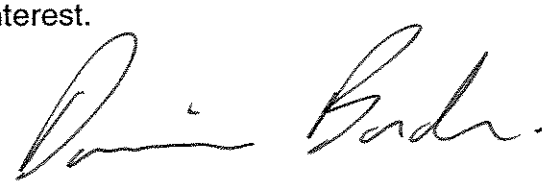
9.0 STATEMENT OF QUALIFICATIONS

I, Dominic Bordin, of RR#1, Site 1 Comp #25, Naramata, British Columbia, do hereby certify that:

1. I am a geologist in the employ of Homestake Canada Inc.

2. I graduated in April, 1985 from McMaster University with a Bachelor of Science, Honours Geology.

3. I have no interest in the properties described herein, nor in the securities of any company associated with the property, nor do I expect to acquire any such interest.



Dominic Bordin

9.0 STATEMENT OF QUALIFICATIONS

I, Adrienne Ross, of 156 Quesnell Crescent, Edmonton, Alberta, do hereby certify that:

1. I am a geologist in the employ of Homestake Canada Inc.

2. I graduated in April, 1991 from the University of Alberta with a Bachelor of Science, Honours Geology.

3. I am a member of good standing of the Australian Institute of Geoscientists, Australia.

4. I am a member of good standing of the Geological Society of Australia.

5. I have no interest in the properties described herein, nor in the securities of any company associated with the property, nor do I expect to acquire any such interest.

Adrienne Ross

9.0 STATEMENT OF QUALIFICATIONS

I, DAVID L. KURAN of 25630 Bosonworth Avenue, in the municipality of Maple Ridge, British Columbia, hereby certify that:

1. I am a graduate of the University of Manitoba(1978) and hold a B.Sc. in geology.

2. I am a fellow of the Geological Association of Canada.

3. I am a Member in good standing of the Association of Professional Engineers and Geoscientists of the province of British Columbia.

4. I have been emloyed in my profession as an Exploration Geologist in Canada, U.S.A., and Mexico since graduation.

5. I am presently employed by Homestake Canada Inc. of 1000-700 West Pender St.,Vancouver, B.C. as a Senior Geologist.

6. I supervised the planning and implementation of the work described in this report, was in daily communication with the project geologist on site and was involved in the data interpretation and editing of this report on the Heidi claims.

Signed at Vancouver, British Columbia this 19 day of December, 1996.

DAVID L. KURAN B.Sc., P. Geol., F.G.A.C.

APPENDIX 1

SAMPLE DESCRIPTIONS AND LOCATIONS

Heidi Samples: Appendix I

Sample:	00028	**Location:**	Heidi grid 1	**Northing:**	7,142,620
Sample type:	float grab	**Length:**		**Easting:**	373,860
Description:					

Grit with moderate green sericite alteration, Fe-stain and quartz veinlets with grey sulphides.

Sample:	00029	**Location:**	Heidi grid 1	**Northing:**	7,142,630
Sample type:	float grab	**Length:**		**Easting:**	372,290
Description:					

Rubble train of brecciated, quartz-veined and altered grit with scorodite and limonite.

Sample:	00030	**Location:**	Heidi grid 1	**Northing:**	7,142,630
Sample type:	float grab	**Length:**		**Easting:**	372,220
Description:					

Altered grit with quartz veining and scorodite. Part of same 090 zone as 00029 but weaker.

Sample:	00031	**Location:**	Heidi grid 1	**Northing:**	7,141,390
Sample type:	float grab	**Length:**		**Easting:**	373,850
Description:					

Altered, coarse grit with quartz sphalerite veins in local float train.

Sample:	00032	**Location:**	Heidi grid 1	**Northing:**	7,142,410
Sample type:	float grab	**Length:**		**Easting:**	373,540
Description:					

Altered grit carries quartz-arsenopyrite veining with scorodite. Selected sample.

Sample:	00033	**Location:**	Heidi grid 1	**Northing:**	7,142,395
Sample type:	float grab	**Length:**		**Easting:**	373,550
Description:					

Float train of limonitic, sericite-altered grit with quartz veins. Alteration host to 00032.

Heidi Samples: Appendix I

Sample:	00034	**Location:**	Heidi grid 1	**Northing:**	7,142,400
Sample type:	float grab	**Length:**		**Easting:**	373,590
Description:					

Altered grit with quartz veining and poddy massive arsenopyrite.

Sample:	00035	**Location:**	Heidi grid 1	**Northing:**	7,142,485
Sample type:	float grab	**Length:**		**Easting:**	373,418
Description:					

Leached sample of altered sandstone with quartz veining, limonite, scorodite.

Sample:	00036	**Location:**	Heidi upper gossan	**Northing:**	7,142,620
Sample type:	float grab	**Length:**		**Easting:**	373,920
Description:					

Altered grit with disseminated pyrite, some arsenopyrite and quartz-arsenopyrite-stibnite veins.

Sample:	00037	**Location:**	Heidi TR-5	**Northing:**	7,142,720
Sample type:	rock grab	**Length:**	0.2m	**Easting:**	373,850
Description:					

Qz-py-aspy vein cutting across fold hinge in grit.

Sample:	00038	**Location:**	Heidi West side	**Northing:**	7,142,775
Sample type:	float grab	**Length:**		**Easting:**	373,830
Description:					

Fine-grained arenite with strong quartz-sericite-pyrite. Estimated sample location. Sample number not plotted.

Sample:	00039	**Location:**	Heidi West side	**Northing:**	7,142,800
Sample type:	rock chip	**Length:**	1.0 m	**Easting:**	372,985
Description:					

030/60 SE trending quartz-tetrahedrite veining in sericite- altered sandstone adjacent lamprophyre dyke.

Sample:	00040	**Location:**	Heidi Grid 1	**Northing:**	7,142,025
Sample type:	float grab	**Length:**		**Easting:**	373,210

Description:

Float boulders of very strong qz-ser with qz-py-aspy veins.

Sample:	00041	**Location:**	Heidi Lake	**Northing:**	7,141,210
Sample type:	float grab	**Length:**		**Easting:**	372,980

Description:

Quartz vein float boulder with 2% coarse galena and 2% chalcopyrite.

Sample:	00042	**Location:**	Heidi	**Northing:**	7,142,835
Sample type:	float grab	**Length:**		**Easting:**	373,375

Description:

Quartz-sericite altered sandstone with quartz veining.

Sample:	00043	**Location:**	Heidi	**Northing:**	7,142,950
Sample type:	soc grab	**Length:**		**Easting:**	372,840

Description:

Strong sericite-carbonate in sandstone with Fe-staining and thin quartz veinlets.

Sample:	00044	**Location:**	Heidi	**Northing:**	7,142,860
Sample type:	float grab	**Length:**		**Easting:**	372,580

Description:

Quartz-galena-chalcopyrite vein float in talus above lake.

Sample:	00045	**Location:**	Heidi	**Northing:**	7,141,935
Sample type:	soc grab	**Length:**		**Easting:**	371,740

Description:

Grit with strong sericite alteration and quartz veinlets. No visible sulphides.

Sample:	00046	**Location:**	Heidi CL8	**Northing:**	7,141,265
Sample type:	rock chip	**Length:**	1.0 m	**Easting:**	371,225

Description:

Chip across outcrop of 040/70 stockwork quartz vein in HW of porphyry dyke. Abundant chalcopyrite locally present.

Sample:	00047	**Location:**	Heidi	**Northing:**	7,141,270
Sample type:	rock grab	**Length:**		**Easting:**	371,200

Description:

Porphyry dyke has strong sericite-carbonate alteration with 1% py and trace galena.

Sample:	00048	**Location:**	Heidi	**Northing:**	7,141,570
Sample type:	soc grab	**Length:**		**Easting:**	372,225

Description:

Medium to coarse sandstone with rusty quartz veins.

Sample:	00049	**Location:**	Heidi	**Northing:**	7,141,600
Sample type:	soc grab	**Length:**		**Easting:**	372,185

Description:

Rusty weathering quartz veins in fine-grained, altered sandstone.

Sample:	00050	**Location:**	Heidi	**Northing:**	7,142,020
Sample type:	float grab	**Length:**		**Easting:**	372,565

Description:

Yellow weathering quartz vein and altered coarse grit.

Sample:	1054	**Location:**	Heidi Silt Program	**Northing:**	7,142,125
Sample type:	silt	**Length:**		**Easting:**	374,550

Description:

Sieved stream sample from the Heidi property, 30 m upstream from the cabin. Rocks in stream included oxidized sst, grit, maroon and green shales and rare intrusive cobbles. Sample taken downstream of a small island.

Sample:	1092	**Location:**	Heidi, east of Lake	**Northing:**	7,141,200
Sample type:	rock grab	**Length:**		**Easting:**	373,330

Description:

20 x 20 m outcrop of grit, down 20 m from base of cliff. Grit unit cross-cut by limonite and quartz veins. Locally py and aspy, with on speck of cpy. Matrix limonite stained. Location: Ridge east of lake.

Sample:	1093	**Location:**	Heidi, east of Lake	**Northing:**	7,141,120
Sample type:	geochem	**Length:**		**Easting:**	373,360

Description:

Bt -intrusive lamprophyre in outcrop. 1 m wide dyke striking 005, dipping 75 deg E. Magnetic. Intruding grit unit. Can visually trace to top of cliffs. Slightly stronger Fe-cb/limonite staining in grit on western side of dyke. No sulphides. Location: Ridge east of lake. Location: Ridge east of lake.

Sample:	1094	**Location:**	Heidi	**Northing:**	7,139,925
Sample type:	talus fine	**Length:**		**Easting:**	376,260

Description:

Brown talus fines taken 20 cm depth beneath minor alpine cover on a 22 deg slope. Fines are composed of shales and sandstone. Sample location in draw leading down into drainage.

Sample:	1095	**Location:**	Heidi	**Northing:**	7,139,850
Sample type:	soil	**Length:**		**Easting:**	376,370

Description:

Brown talus fines of shale, sst and minor grit taken from 5 cm depth on a 22 deg slope 150 m from 1094 along claim boundary.

Sample:	1096	**Location:**	Heidi	**Northing:**	7,139,730
Sample type:	soil	**Length:**		**Easting:**	376,495

Description:

Brown soil taken at 5 cm depth beneath alpine cover on a 22 deg slope. Sample taken beneath grit o/c 150 m from 1095. (White qz veining in grit, no sulphides).

Sample:	1097	**Location:**	Heidi	**Northing:**	7,139,690
Sample type:	soil	**Length:**		**Easting:**	376,595

Description:

Brown soil taken from 5 to 20 cm depth on 15 deg slope. Sst talus and alpine cover on slope. Sample taken 160 m from 1096 along claim line.

Sample:	1104	**Location:**	Heidi	**Northing:**	7,139,540
Sample type:	soil	**Length:**		**Easting:**	376,415

Description:

Sample taken on 20 deg alpine slope from 40 cm depth. Soil taken predominantly from brown horizon, some contamination from organic (black) horizon. Sst talus in soil hole.

Sample:	1105	**Location:**	Heidi	**Northing:**	7,138,120
Sample type:	soil	**Length:**		**Easting:**	374,560

Description:

Brown soil taken from 30cm depth beneath alpine cover on a 15 - 20 deg slope. No rocks in soil hole. Shales, sst and grit float in area.

Sample:	1109	**Location:**	Heidi	**Northing:**	7,137,960
Sample type:	soil	**Length:**		**Easting:**	374,770

Description:

Black, rust, brown soil from 5 - 10 cm depth on a 15 deg slope with sst and grit talus in soil hole beneath alpine and shrub cover. In general, very little soil development and some organic material in sample. 150 m on 030 bearing from 1108.

Sample:	1110	**Location:**	Heidi	**Northing:**	7,138,400
Sample type:	soil	**Length:**		**Easting:**	374,940

Description:

Brown soil taken from 50 cm depth on a 30 deg slope with shale and sandstone. Alpine covered slope. Difficult to get soils as hole was predominantly shale chips with mud coating and sandstone pebbles and cobbles.

Sample:	1111	**Location:**	Heidi	**Northing:**	7,138,610
Sample type:	soil	**Length:**		**Easting:**	374,920

Description:

Brown soil from 30 to 40 cm depth from a steep slope (25 deg) with dense bush. Shale and sandstone talus in soil hole. Sample taken 50 m north of creek.

Sample:	1112	**Location:**	Heidi	**Northing:**	7,138,730
Sample type:	soil	**Length:**		**Easting:**	374,920

Description:

Brown soil from 30 cm depth on a 15 deg slope. Taken in alpine and brush cover. Sample taken 200 m N of creek.

Sample:	1113	**Location:**	Heidi	**Northing:**	7,138,890
Sample type:	soil	**Length:**		**Easting:**	374,945

Description:

Brown soil taken from 30 cm depth on a 15 deg slope. Grit boulders in soil hole. Taken in alpine and shrub cover. 150 m north of 1112.

Sample:	1114	**Location:**	Heidi	**Northing:**	7,139,040
Sample type:	soil	**Length:**		**Easting:**	374,900

Description:

Brown soil taken from 30 cm depth on a 15-20 deg slope. Grit and sandstone in soil hole. Alpine cover. Difficult to get fines due to abundant 1-2 cm sized rock chips. 150 m from 1113 on 000 deg bearing.

Sample:	1115	**Location:**	Heidi	**Northing:**	7,139,180
Sample type:	soil	**Length:**		**Easting:**	274,885

Description:

Brown soil from 50 cm depth on a 15 to 20 deg slope. Sample taken in shrub. Difficult to get fines/soil because of abundant small rock chips. Sandstone and grit talus in soil hole. Location: 40 m north of stream.

Sample:	1116	**Location:**	Heidi	**Northing:**	7,139,340
Sample type:	soil	**Length:**		**Easting:**	374,870

Description:

Brown soil from 40 cm depth on 5 deg slope. Sandstone in soil hole. Sample taken in alpine and shrub cover, on southern side slope of ridge, but getting near to the top. 200 m north of creek.

Sample:	1117	**Location:**	Heidi	**Northing:**	7,139,440
Sample type:	soil	**Length:**		**Easting:**	374,855

Description:

Brown soil from 20 cm depth, 3 deg slope. Difficult to get soil due to abundant small shale fragments. Alpine and shrub cover. Shale and sandstone talus in soil holes.

Sample:	1118	**Location:**	Heidi	**Northing:**	7,139,635
Sample type:	soil	**Length:**		**Easting:**	374,480

Description:

Brown soil from 40 cm depth on a 20 deg slope. Sandstone and grit in soil hole, minor shale. Sample taken in alpine cover, up hill from claim post.

Sample:	1119	**Location:**	Heidi	**Northing:**	7,139,680
Sample type:	soil	**Length:**		**Easting:**	374,350

Description:

Brown soil taken from 50 cm depth on 20-25 deg slope. Grit, sst and shale talus in soil hole. Sample taken in alpine cover. Difficult to get soil as moss covering on a talus slope.

Sample:	1120	**Location:**	Heidi	**Northing:**	7,139,750
Sample type:	soil	**Length:**		**Easting:**	374,280

Description:

Brown soil taken from 20 cm depth on a 2 deg slope. Flat bank 10 m away from creek - might be old flood plain. Sandstone and shale in soil hole.

Sample:	1121	**Location:**	Heidi	**Northing:**	7,139,755
Sample type:	soil	**Length:**		**Easting:**	374,080

Description:

Brown soil from 15 cm depth on a 2-5 deg slope. 150 m from 1120 along creek. No rocks in soil hole, sandstone talus nearby.

Sample:	1122	**Location:**	Heidi	**Northing:**	7,139,660
Sample type:	soil	**Length:**		**Easting:**	373,910

Description:

Brown soil from 5 cm depth. Alpine cover. Sample taken from frost boil on river terrace south side of stream, just upstream from confluence of stream and draw.

Sample:	1123	**Location:**	Heidi	**Northing:**	7,139,790
Sample type:	soil	**Length:**		**Easting:**	373,740

Description:

Brown soil from 20 cm depth on a 2 deg slope. Sample taken on alpine ridge above maroon shales past Hi 66, Hi 67 claims

Sample:	1124	**Location:**	Heidi	**Northing:**	7,139,930
Sample type:	soil	**Length:**		**Easting:**	373,610

Description:

Brown soil taken from 30 cm depth on a 10-15 deg slope. Taken on ridge, beneath alpine cover, sandstone outcrop near by. Approximately 150 m upridge from 1123.

Sample:	1125	**Location:**	Heidi	**Northing:**	7,140,030
Sample type:	soil	**Length:**		**Easting:**	373,570

Description:

Brown soil from 40 cm depth and 15 deg slope. Sst outcrop, but shale in soil hole. Sample taken from beneath alpine cover.

Sample:	1126	**Location:**	Heidi	**Northing:**	7,140,140
Sample type:	soil	**Length:**		**Easting:**	373,090

Description:

Brown soil taken from 30 cm depth on a 10 deg slope. Alpine cover, shales to the west. Beginning of north bearing soil line. Location: Heidi 43,45.

Sample:	1127	**Location:**	Heidi	**Northing:**	7,140,240
Sample type:	soil	**Length:**		**Easting:**	373,090

Description:

Brown soil from 40 cm depth on a 10 deg slope. Sandstone float, alpine cover. 100 m north of Heidi 43,45, Post 2.

Sample:	1128	**Location:**	Heidi	**Northing:**	7,140,340
Sample type:	soil	**Length:**		**Easting:**	373,080

Description:

Brown soil from 20 cm depth and 5 deg slope. Sandstone talus in soil hole. Difficult to get soil, boulders under alpine cover.

Sample:	1129	**Location:**	Heidi	**Northing:**	7,140,440
Sample type:	soil	**Length:**		**Easting:**	373,085

Description:

Brown soil taken from 35 cm depth on a 5 deg slope. This sample is beneath alpine cover but is almost a talus fines sample - hole was mostly small shale chips and larger sst cobbles. 300 m north of Heidi 43,45 Post 2.

Sample:	1130	**Location:**	Heidi	**Northing:**	7,140,540
Sample type:	soil	**Length:**		**Easting:**	373,090

Description:

Brown soil from 10 cm depth on 15 degree slope. Sample taken from shale frost boil. 400 m north of Heidi 43/45, Post 2.

Sample:	1131	**Location:**	Heidi	**Northing:**	7,140,630
Sample type:	rock grab	**Length:**		**Easting:**	373,270

Description:

5 - 10% white quartz veining in sandstone. 1 x 2 m area, then outcrop goes under talus cover. Quartz veins locally contain limonitic pods and rare fresh pyrite.

Sample:	1132	**Location:**	Heidi, 5+50 N, 9+00 W	**Northing:**	7,142,150
Sample type:	float grab	**Length:**		**Easting:**	372,495

Description:

Limonite staining in matrix, rare cb-veins and limonite veins. Some sericite alteration of feldspars. Mixed sample of talus beneath sandstone outcrop. 8+93W to 9+04W along ridge at approximately 5 +50N.

Sample:	1133	**Location:**	Heidi, 5+50 N, 10+00 W	**Northing:**	7,142,075
Sample type:	float grab	**Length:**		**Easting:**	372,360

Description:

Quartz veining with limonitic selvages in sandstone. This alteration is not seen in outcrop. Sample taken on ridge adjacent to sst o/c. 1m x 1m area of this float. 10+50W

Sample:	1134	**Location:**	Heidi, 4+00 N, 13+00 W	**Northing:**	7,141,780
Sample type:	rock grab	**Length:**		**Easting:**	372,240

Description:

Strongly limonitized calcareous sandstone with quartz-limonite veins. 1 x 2 m area of float on talus slope. No outcrop of similar material evident. 4+00N, 13+00W on soil grid.

Sample:	1135	**Location:**	Heidi, East Ridge,	**Northing:**	7,142,425
Sample type:	float grab	**Length:**		**Easting:**	375,440

Description:

Limonite-stained sandstone with quartz and carbonate veins (0.5 to 3 cm thick) with limonitic vugs and cavities. No fresh sulphides. Eastern ridge while staking HK12,13 Fr.

Sample:	1497	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,641
Sample type:	rock chip	**Length:**	2.0	**Easting:**	374,034

Description:

Rusty, altered, fine-grained sandstone with white quartz veinlets and minor pyrite

Sample:	1498	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,644
Sample type:	rock chip	**Length:**	3.0	**Easting:**	374,034

Description:

Arsenopyrite and quartz veinlets in strongly altered, fine grained sandstone.

Sample:	1499	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,650
Sample type:	rock chip	**Length:**	3.5	**Easting:**	374,029

Description:

Medium-grained sandstone cut by numerous white and grey quartz stringers and arsenopyrite/pyrite stringers.

Sample:	1500	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,645
Sample type:	rock chip	**Length:**	2.5	**Easting:**	374,028

Description:

Medium grained sandstone with white quartz veinlets and seams of coarse quartz-arsenopyrite-pyrite veinlets.

Sample:	1501	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,650
Sample type:	rock chip	**Length:**	3.0	**Easting:**	374,021

Description:

Coarse quartz-feldspar grit with variable 2-25% coarse arsenopyrite and 2-5% pyrite. Trace chalcopyrite.

Sample:	1502	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,652
Sample type:	rock chip	**Length:**	2.0	**Easting:**	374,022

Description:

Continuation of 1501 across fold hinge. Patchy replacement of grit unit with arsenopyrite and pyrite.

Sample:	1503	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,655
Sample type:	rock chip	**Length:**	2.0	**Easting:**	374,020

Description:

Weakly ot strongly altered and mineralized grit unit.

Sample:	1504	**Location:**	Heidi, Lowermost Showing	**Northing:**	7,142,658
Sample type:	rock chip	**Length:**	3.5	**Easting:**	374,016

Description:

Unmineralized, calcareous grit and sandstone.

Sample:	1505	**Location:**	Heidi, Trench 5	**Northing:**	7,142,677
Sample type:	rock chip	**Length:**	3.0	**Easting:**	373,978

Description:

Altered grit with numerous zones of dark grey and white quartz stockwork. Disseminated and vein controlled pyrite(5-10%) and 2% arsenopyrite.

Sample:	1506	**Location:**	Heidi, Trench 5	**Northing:**	7,142,679
Sample type:	rock chip	**Length:**	3.5	**Easting:**	373,980

Description:

Coarse grit with 1-2cm quartz/arsenopyrite/stibnite veinlets, 2-5% disseminated pyrite, 1-3% arsenopyrite.

Sample:	1507	**Location:**	Heidi, Trench 5	**Northing:**	7,142,678
Sample type:	rock chip	**Length:**	1.0	**Easting:**	373,975

Description:

Coarse grit altered with 2-5% pyrite and 1-2% arsenopyrite. Minor shale.

Sample:	1508	**Location:**	Heidi, Trench 4	**Northing:**	7,142,692
Sample type:	rock chip	**Length:**	1.0	**Easting:**	373,976

Description:

Rusty, silty limestone with 20cm bed of massive arsenopyrite and disseminated pyrite.

Sample:	1509	**Location:**	Heidi, Jeff's Showing	**Northing:**	7,142,678
Sample type:	rock chip	**Length:**	1.75	**Easting:**	373,949

Description:

Shale - altered brown to orange.

Sample:	1510	**Location:**	Heidi, Jeff's Showing	**Northing:**	7,142,678
Sample type:	rock chip	**Length:**	2.5	**Easting:**	373,947

Description:

Fine to coarse grained altered sandstone. Soft and crumbly blebs of arsenopyrite. Stringers and veinlets of pyrite

Sample:	1511	**Location:**	Heidi, Jeff's Showing	**Northing:**	7,142,680
Sample type:	rock chip	**Length:**	1.5	**Easting:**	373,949

Description:

Altered fine-grained sandstone with arsenopyrite/pyrite replacement. Very coarse arsenopyrite.

Sample:	1512	**Location:**	Heidi, Jeff's Showing	**Northing:**	7,142,684
Sample type:	rock chip	**Length:**	3.25	**Easting:**	373,946

Description:

Dominantly fine grained sandstone with rusty quartz veins and minor pyrite/arsenopyrite mineralization.

Sample:	1513	**Location:**	Heidi, Trench 1	**Northing:**	7,142,687
Sample type:	rock chip	**Length:**	2.7	**Easting:**	373,980

Description:

Rusty grit with a zone of weathered out arsenopyrite casts.

Sample:	1514	**Location:**	Heidi, Trench 1	**Northing:**	7,142,755
Sample type:	rock chip	**Length:**		**Easting:**	373,859

Description:

Medium grained sandstone with less than 1% pyrite. Altered.

Sample:	1515	**Location:**	Heidi, Trench 1	**Northing:**	7,142,754
Sample type:	rock chip	**Length:**		**Easting:**	373,858

Description:

Fine to medium grained sandstone with some pyrite. Highly altered bands of pyrite/arsenopyrite. Some interbedded shale units.

Sample:	1516	**Location:**	Heidi, Trench 1	**Northing:**	7,142,754
Sample type:	rock chip	**Length:**	3.4	**Easting:**	373,856

Description:

Fine grained sandstone with less than 1% pyrite. Rusty blebs throughout most of outcrop. Quartz veinlets throughout.

Sample:	1517	**Location:**	Heidi, Trench 1	**Northing:**	7,142,762
Sample type:	rock chip	**Length:**	2.4	**Easting:**	373,858

Description:

Fine grained sandstone with rusty blotches and pyrite.

Sample:	1518	**Location:**	Heidi, Trench 1	**Northing:**	7,142,768
Sample type:	rock chip	**Length:**	3.1	**Easting:**	373,859

Description:

Sample:	1519	**Location:**	Heidi, Trench Sample	**Northing:**	7,142,752
Sample type:	rock chip	**Length:**	3.2	**Easting:**	373,875

Description:

Sample:	1520	**Location:**	Heidi, Trench 2	**Northing:**	7,142,752
Sample type:	rock chip	**Length:**	0.75	**Easting:**	373,893

Description:

Arsenopyrite blebs in a silica matrix . Minor pyrite. Scorodite stained..

Sample:	1521	**Location:**	Heidi, Trench 2	**Northing:**	7,142,750
Sample type:	rock chip	**Length:**	3.10	**Easting:**	373,891

Description:

Orange-brown weathered and altered shale unit.

Sample:	1522	**Location:**	Heidi, Trench 2	**Northing:**	7,142,750
Sample type:	rock chip	**Length:**	2.90	**Easting:**	373,891

Description:

Black, altered, fine grained sandstone unit with quartz veining.

Sample:	1523	**Location:**	Heidi, Trench Sample	**Northing:**	7,142,740
Sample type:	rock chip	**Length:**	1.45	**Easting:**	373,934

Description:

Pink orange to black, fine grained , altered sandstone. Some quartz veining.

Sample:	1524	**Location:**	Heidi, Trench Sample	**Northing:**	7,142,745
Sample type:	rock chip	**Length:**		**Easting:**	373,935

Description:

Approximate location.

Sample:	2507	**Location:**	N of Mike Lake	**Northing:**	7,130,050
Sample type:	rock grab	**Length:**		**Easting:**	364,250

Description:

Dark grey highly siliceous outcrop. Weathers orange in some places. Igneous?

Sample:	2511	**Location:**	Heidi Silt Program	**Northing:**	7,141,850
Sample type:	silt	**Length:**		**Easting:**	371,050

Description:

Brown stream sed.

Sample:	2512	**Location:**	Heidi Silt Program	**Northing:**	7,142,250
Sample type:	rock grab	**Length:**		**Easting:**	371,250

Description:

Grit with lots of quartz veining, occasionally vuggy. Weathers grey to orange. May be some sulphides - pyrite present.

Sample:	2513	**Location:**	Heidi Silt Program	**Northing:**	7,143,025
Sample type:	silt	**Length:**		**Easting:**	371,175
Description:					

Stream sed sample.

Sample:	2926	**Location:**	Heidi Cirque	**Northing:**	7,140,870
Sample type:	float grab	**Length:**		**Easting:**	372,990
Description:					

Small localized rusty pods within grit/sandstone lense within red-green shales. Some pyrite noted.

Sample:	2927	**Location:**	Heidi Cirque	**Northing:**	7,140,940
Sample type:	float grab	**Length:**		**Easting:**	372,970
Description:					

Grits with quartz veining near fault. Yellow, Fe(?) staining. No sulphides. Some very porous weathered pieces.

Sample:	2928	**Location:**	Backside of Heidi	**Northing:**	7,140,030
Sample type:	rock chip	**Length:**	5.0 m	**Easting:**	375,910
Description:					

5 m band of coarse grits. Altered and weathered. No sulphides.

Sample:	2929	**Location:**	Backside of Heidi	**Northing:**	7,140,000
Sample type:	soil	**Length:**		**Easting:**	375,880
Description:					

Taken within a 15 m band of weathered calcareous siltstone. No sulphides.

Sample:	2930	**Location:**	Backside of Heidi	**Northing:**	7,139,435
Sample type:	rock chip	**Length:**		**Easting:**	375,820
Description:					

Coarse grits. Orange/brown weathering. No sulphides.

Sample:	2931	**Location:**	Backside of Heidi	**Northing:**	7,139,110
Sample type:	soil	**Length:**		**Easting:**	375,895
Description:					

Soil at 150 m spacing. Soil #1. Slope facing Hamilton. 150 m from quartz boulders.

Sample:	2932	**Location:**	Backside of Heidi	**Northing:**	7,139,090
Sample type:	soil	**Length:**		**Easting:**	376,045
Description:					

Soil at 300 m from quartz azimuth 090.

Sample:	2933	**Location:**	Backside of Heidi	**Northing:**	7,139,090
Sample type:	soil	**Length:**		**Easting:**	376,220
Description:					

Soil #3. 450 m from quartz.

Sample:	2934	**Location:**	Backside of Heidi	**Northing:**	7,139,240
Sample type:	soil	**Length:**		**Easting:**	376,200
Description:					

Soil #4 at 600 m from quartz, due north 150 m from soil #3.

Sample:	2935	**Location:**	Backside of Heidi	**Northing:**	7,139,370
Sample type:	soil	**Length:**		**Easting:**	376,180
Description:					

Soil #5. 135 m due N of previous sample. Good soil.

Sample:	2936	**Location:**	Backside of Heidi	**Northing:**	7,139,520
Sample type:	soil	**Length:**		**Easting:**	376,195
Description:					

Soil #6. 160 m N of previous. Good soil.

Sample:	2937	**Location:**	Backside of Heidi	**Northing:**	7,139,170
Sample type:	soil	**Length:**		**Easting:**	374,405

Description:

Soil taken in area of grit talus in draw. Good soil.

Sample:	2938	**Location:**	Backside of Heidi	**Northing:**	7,139,630
Sample type:	float grab	**Length:**		**Easting:**	373,985

Description:

Samples of vuggy grit and calcareous sandstone along a red, shale, talus slope. Includes pieces of dark brown, brittle, decalcified limestone. Must be interbedded near top of draw. No sulphides.

Sample:	2946	**Location:**	Backside of Heidi	**Northing:**	7,138,410
Sample type:	soil	**Length:**		**Easting:**	375,450

Description:

Rusty, oxidized sandstone/shale talus @ 0 m.

Sample:	2947	**Location:**	Backside of Heidi	**Northing:**	7,138,565
Sample type:	soil	**Length:**		**Easting:**	375,400

Description:

Soil from rusty talus sh/sst @ 150 m.

Sample:	2948	**Location:**	Backside of Heidi	**Northing:**	7,138,710
Sample type:	soil	**Length:**		**Easting:**	375,350

Description:

Soil near bedded sandstone outcrop at 300 m.

Sample:	2949	**Location:**	Backside of Heidi	**Northing:**	7,138,860
Sample type:	soil	**Length:**		**Easting:**	375,340

Description:

Soil in shale/sst talus at 450 m.

Sample:	2950	**Location:**	Backside of Heidi	**Northing:**	7,139,010
Sample type:	soil	**Length:**		**Easting:**	375,335
Description:					

Soil at 600 m. Mossy.

Sample:	2951	**Location:**	Backside of Heidi	**Northing:**	7,139,155
Sample type:	soil	**Length:**		**Easting:**	375,340
Description:					

Soil at 750 m. Mossy.

Sample:	2952	**Location:**	Backside of Heidi	**Northing:**	7,139,440
Sample type:	soil	**Length:**		**Easting:**	375,245
Description:					

Soil near creek at base of large draw.

Sample:	2953	**Location:**	Backside of Heidi	**Northing:**	7,139,480
Sample type:	float grab	**Length:**		**Easting:**	375,340
Description:					

Gossanous float, mainly quartz in same draw as 2952. No sulphides.

Sample:	2954	**Location:**	Backside of Heidi	**Northing:**	7,139,545
Sample type:	soil	**Length:**		**Easting:**	375,425
Description:					

Soil in draw near claim post 63/64/65/66.

Sample:	2955	**Location:**	Backside of Heidi	**Northing:**	7,139,570
Sample type:	soil	**Length:**		**Easting:**	375,545
Description:					

Start of contour line across draw above claim post. Approximately 100 - 150 m from draw.

Sample: 2956 **Location:** Backside of Heidi **Northing:** 7,139,600
Sample type: soil **Length:** **Easting:** 375,535
Description:
Soil in draw at 50 m.

Sample: 2957 **Location:** Backside of Heidi **Northing:** 7,139,635
Sample type: soil **Length:** **Easting:** 375,500
Description:
Soil at 100 m.

Sample: 2958 **Location:** Backside of Heidi **Northing:** 7,139,675
Sample type: soil **Length:** **Easting:** 375,400
Description:
Soil at 200 m.

Sample: 2959 **Location:** Backside of Heidi **Northing:** 7,139,780
Sample type: soil **Length:** **Easting:** 375,290
Description:
Soil at 350 m. Mossy.

Sample: 2960 **Location:** Backside of Heidi **Northing:** 7,139,840
Sample type: soil **Length:** **Easting:** 375,205
Description:
Soil at 450 m.

Sample: 2961 **Location:** Backside of Heidi **Northing:** 7,140,010
Sample type: soil **Length:** **Easting:** 374,800
Description:
First soil on panhandle traverse. Fairly organic. 0 m.

Sample: 2962 **Location:** Backside of Heidi **Northing:** 7,140,015
Sample type: soil **Length:** **Easting:** 374,610
Description:

Soil. Good B horizon sample. 150 m.

Sample: 2963 **Location:** Backside of Heidi **Northing:** 7,140,025
Sample type: soil **Length:** **Easting:** 374,470
Description:

Soil. Good B Horizon at 300 m.

Sample: 2964 **Location:** Backside of Heidi **Northing:** 7,140,040
Sample type: soil **Length:** **Easting:** 374,340
Description:

Soil. Thick, good B horizon at 450 m.

Sample: 2965 **Location:** Backside of Heidi **Northing:** 7,140,100
Sample type: soil **Length:** **Easting:** 374,230
Description:

Soil on steep cut west of stream. Good sample.

Sample: 2966 **Location:** Backside of Heidi **Northing:** 7,140,385
Sample type: soil **Length:** **Easting:** 374,150
Description:

Contour soils #1.

Sample: 2967 **Location:** Backside of Heidi **Northing:** 7,140,290
Sample type: soil **Length:** **Easting:** 374,120
Description:

+ 100 m.

Sample: 2968 **Location:** Backside of Heidi **Northing:** 7,140,200
Sample type: soil **Length:** **Easting:** 374,085
Description:
+ 200 m.

Sample: 2969 **Location:** Backside of Heidi **Northing:** 7,140,110
Sample type: soil **Length:** **Easting:** 374,035
Description:
Corner in contour +300 m.

Sample: 2970 **Location:** Backside of Heidi **Northing:** 7,140,095
Sample type: soil **Length:** **Easting:** 373,930
Description:
+ 400 m.

Sample: 2971 **Location:** Backside of Heidi **Northing:** 7,140,080
Sample type: soil **Length:** **Easting:** 373,835
Description:
+ 500 m.

Sample: 2972 **Location:** Backside of Heidi **Northing:** 7,140,065
Sample type: soil **Length:** **Easting:** 373,735
Description:
+ 600 m.

Sample: 2973 **Location:** Backside of Heidi **Northing:** 7,140,050
Sample type: soil **Length:** **Easting:** 373,635
Description:

Sample:	2974	**Location:**	Backside of Heidi	**Northing:**	7,140,045
Sample type:	soil	**Length:**		**Easting:**	373,535
Description:					

Sample:	2975	**Location:**	Backside of Heidi	**Northing:**	7,140,030
Sample type:	soil	**Length:**		**Easting:**	373,440
Description:					

Sample:	2976	**Location:**	Backside of Heidi	**Northing:**	7,140,460
Sample type:	soil	**Length:**		**Easting:**	373,900
Description:					

Sample:	2977	**Location:**	Backside of Heidi	**Northing:**	7,140,500
Sample type:	soil	**Length:**		**Easting:**	373,780
Description:					

Sample:	2978	**Location:**	Backside of Heidi	**Northing:**	7,140,530
Sample type:	soil	**Length:**		**Easting:**	373,660
Description:					

Sample:	2979	**Location:**	Backside of Heidi	**Northing:**	7,140,580
Sample type:	soil	**Length:**		**Easting:**	373,465
Description:					

Sample:	2980	**Location:**	Heidi E Ridge	**Northing:**	7,142,370
Sample type:	rock grab	**Length:**		**Easting:**	375,560

Description:

Rusty/porous gossanous quartz veining in sandstone. No visible sulphides. Small pod. Couldn't find more. Next sample is a mix of float near this pod of gossan.

Sample:	2981	**Location:**	Heidi E Ridge	**Northing:**	7,142,400
Sample type:	float grab	**Length:**		**Easting:**	375,560

Description:

Miscellaneous rusty quartz float.

Sample:	2982	**Location:**	Heidi E Ridge	**Northing:**	7,142,410
Sample type:	soil	**Length:**		**Easting:**	375,640

Description:

Contour soil

Sample:	2983	**Location:**	Heidi E Ridge	**Northing:**	7,142,425
Sample type:	soil	**Length:**		**Easting:**	375,640

Description:

Contour Soil

Sample:	2984	**Location:**	Heidi E Ridge	**Northing:**	7,142,450
Sample type:	soil	**Length:**		**Easting:**	375,625

Description:

Contour soil

Sample:	2985	**Location:**	Heidi E Ridge	**Northing:**	7,142,470
Sample type:	soil	**Length:**		**Easting:**	375,620

Description:

Contour soil

Sample: 2986 **Location:** Heidi E Ridge **Northing:** 7,142,475
Sample type: soil **Length:** **Easting:** 375,335
Description:
Soil - front of Heidi, East Ridge.

Sample: 2987 **Location:** Heidi E Ridge **Northing:** 7,142,460
Sample type: soil **Length:** **Easting:** 375,330
Description:
Soil. Front side of East Ridge.

Sample: CL1: 0+00S **Location:** Heidi, Contour Soil line **Northing:** 7,142,810
Sample type: soil **Length:** **Easting:** 372,560
Description:

Sample: CL1: 1+00S **Location:** Heidi, Contour soil **Northing:** 7,142,055
Sample type: soil **Length:** **Easting:** 372,540
Description:

Sample: CL1: 2+00S **Location:** Heidi, Contour soil **Northing:** 7,141,990
Sample type: soil **Length:** **Easting:** 372,520
Description:

Sample: CL1: 3+00S **Location:** Heidi, Contour soil **Northing:** 7,141,920
Sample type: soil **Length:** **Easting:** 372,490
Description:

Sample:	CL1: 4+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,840
Sample type:	soil	**Length:**		**Easting:**	372,460
Description:					

Sample:	CL1: 5+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,740
Sample type:	soil	**Length:**		**Easting:**	372,410
Description:					

Sample:	CL1: 6+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,690
Sample type:	soil	**Length:**		**Easting:**	372,380
Description:					

Sample:	CL1: 7+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,620
Sample type:	soil	**Length:**		**Easting:**	372,350
Description:					

Sample:	CL1: 8+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,550
Sample type:	soil	**Length:**		**Easting:**	372,350
Description:					

Sample:	CL1: 9+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,475
Sample type:	soil	**Length:**		**Easting:**	372,340
Description:					

Sample:	CL3: 0+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,970
Sample type:	soil	**Length:**		**Easting:**	375,075
Description:					

Sample:	CL3: 1+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,890
Sample type:	soil	**Length:**		**Easting:**	375,010
Description:					

Sample:	CL3: 2+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,815
Sample type:	soil	**Length:**		**Easting:**	374,950
Description:					

Sample:	CL3: 3+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,730
Sample type:	soil	**Length:**		**Easting:**	374,900
Description:					

Sample:	CL3: 4+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,635
Sample type:	soil	**Length:**		**Easting:**	374,850
Description:					

Sample:	CL3: 5+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,550
Sample type:	soil	**Length:**		**Easting:**	374,800
Description:					

Sample:	CL3: 6+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,440
Sample type:	soil	**Length:**		**Easting:**	374,785
Description:					

Sample:	CL3: 7+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,345
Sample type:	soil	**Length:**		**Easting:**	374,770
Description:					

Sample:	CL3: 8+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,240
Sample type:	soil	**Length:**		**Easting:**	374,770
Description:					

Sample:	CL3: 9+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,140
Sample type:	soil	**Length:**		**Easting:**	374,760
Description:					

Sample:	CL3:10+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,040
Sample type:	soil	**Length:**		**Easting:**	374,750
Description:					

Sample:	CL4: 0+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,142,810
Sample type:	soil	**Length:**		**Easting:**	374,180
Description:					

Sample:	CL4: 1+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,142,905
Sample type:	soil	**Length:**		**Easting:**	374,150
Description:					

Sample:	CL4: 2+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,010
Sample type:	soil	**Length:**		**Easting:**	374,160
Description:					

Sample:	CL4: 3+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,110
Sample type:	soil	**Length:**		**Easting:**	374,140
Description:					

Sample:	CL4: 4+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,190
Sample type:	soil	**Length:**		**Easting:**	374,090
Description:					

Sample:	CL4: 5+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,265
Sample type:	soil	**Length:**		**Easting:**	374,025
Description:					

Sample:	CL4: 6+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,335
Sample type:	soil	**Length:**		**Easting:**	373,960
Description:					

Sample:	CL4: 7+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,380
Sample type:	soil	**Length:**		**Easting:**	373,860
Description:					

Sample:	CL4: 8+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,405
Sample type:	soil	**Length:**		**Easting:**	373,750
Description:					

Sample:	CL4: 9+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,425
Sample type:	soil	**Length:**		**Easting:**	373,650
Description:					

Sample:	CL4:10+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,475
Sample type:	soil	**Length:**		**Easting:**	373,570
Description:					

Sample:	CL4:11+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,530
Sample type:	soil	**Length:**		**Easting:**	373,480
Description:					

Sample:	CL4:12+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,580
Sample type:	soil	**Length:**		**Easting:**	373,390
Description:					

Sample:	CL4:13+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,615
Sample type:	soil	**Length:**		**Easting:**	373,295
Description:					

Sample:	CL4:14+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,650
Sample type:	soil	**Length:**		**Easting:**	373,210
Description:					

Sample:	CL4:15+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,680
Sample type:	soil	**Length:**		**Easting:**	373,115
Description:					

Sample:	CL4:16+00W	**Location:**	Heidi, Contour soil	**Northing:**	7,143,705
Sample type:	soil	**Length:**		**Easting:**	373,015
Description:					

Sample:	CL6: 0+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,143,270
Sample type:	soil	**Length:**		**Easting:**	373,285
Description:					

Sample:	CL6: 1+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,143,190
Sample type:	soil	**Length:**		**Easting:**	373,300
Description:					

Sample:	CL6: 2+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,143,100
Sample type:	soil	**Length:**		**Easting:**	373,300
Description:					

Sample:	CL6: 3+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,143,020
Sample type:	soil	**Length:**		**Easting:**	373,280
Description:					

Sample:	CL6: 4+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,980
Sample type:	soil	**Length:**		**Easting:**	373,180
Description:					

Sample:	CL6: 5+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,955
Sample type:	soil	**Length:**		**Easting:**	373,090
Description:					

Sample:	CL6: 6+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,940
Sample type:	soil	**Length:**		**Easting:**	372,990
Description:					

Sample:	CL6: 6+50S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,940
Sample type:	soil	**Length:**		**Easting:**	372,940
Description:					

Sample:	CL6: 7+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,940
Sample type:	soil	**Length:**		**Easting:**	372,895
Description:					

Sample:	CL6: 8+30S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,960
Sample type:	soil	**Length:**		**Easting:**	372,820
Description:					

Sample:	CL7: 0+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,950
Sample type:	soil	**Length:**		**Easting:**	372,555
Description:					

Sample:	CL7: 1+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,880
Sample type:	soil	**Length:**		**Easting:**	372,565
Description:					

Sample:	CL7: 1+75S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,800
Sample type:	soil	**Length:**		**Easting:**	372,570
Description:					

Sample:	CL7: 2+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,750
Sample type:	soil	**Length:**		**Easting:**	372,560
Description:					

Sample:	CL7: 3+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,645
Sample type:	soil	**Length:**		**Easting:**	372,560
Description:					

Sample:	CL7: 4+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,550
Sample type:	soil	**Length:**		**Easting:**	372,545
Description:					

Sample:	CL7: 5+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,450
Sample type:	soil	**Length:**		**Easting:**	372,540
Description:					

Sample:	CL7: 6+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,360
Sample type:	soil	**Length:**		**Easting:**	372,515
Description:					

Sample:	CL7: 6+50S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,300
Sample type:	soil	**Length:**		**Easting:**	372,500
Description:					

Sample:	CL7: 7+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,270
Sample type:	soil	**Length:**		**Easting:**	372,385
Description:					

Sample:	CL7: 8+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,280
Sample type:	soil	**Length:**		**Easting:**	372,300
Description:					

Sample:	CL7: 9+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,290
Sample type:	soil	**Length:**		**Easting:**	372,210
Description:					

Sample:	CL7:10+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,325
Sample type:	soil	**Length:**		**Easting:**	372,100
Description:					

Sample:	CL7:11+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,430
Sample type:	soil	**Length:**		**Easting:**	372,015
Description:					

Sample:	CL7:12+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,535
Sample type:	soil	**Length:**		**Easting:**	372,015
Description:					

Sample:	CL7:13+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,610
Sample type:	soil	**Length:**		**Easting:**	372,020
Description:					

Sample:	CL7:14+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,735
Sample type:	soil	**Length:**		**Easting:**	372,040
Description:					

Sample:	CL8: 0+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,400
Sample type:	soil	**Length:**		**Easting:**	371,650
Description:					

Sample:	CL8: 1+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,310
Sample type:	soil	**Length:**		**Easting:**	371,670
Description:					

Sample:	CL8: 2+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,220
Sample type:	soil	**Length:**		**Easting:**	371,690
Description:					

Sample:	CL8: 3+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,130
Sample type:	soil	**Length:**		**Easting:**	371,700
Description:					

Sample:	CL8: 4+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,142,420
Sample type:	soil	**Length:**		**Easting:**	371,695
Description:					

Sample:	CL8: 5+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,940
Sample type:	soil	**Length:**		**Easting:**	371,740
Description:					

Sample:	CL8: 6+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,880
Sample type:	soil	**Length:**		**Easting:**	371,860
Description:					

Sample:	CL8: 7+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,830
Sample type:	soil	**Length:**		**Easting:**	371,900
Description:					

Sample:	CL8: 8+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,690
Sample type:	soil	**Length:**		**Easting:**	371,950
Description:					

Sample:	CL8: 9+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,590
Sample type:	soil	**Length:**		**Easting:**	371,960
Description:					

Sample:	CL8:10+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,510
Sample type:	soil	**Length:**		**Easting:**	371,925
Description:					

Sample:	CL8:12+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,400
Sample type:	soil	**Length:**		**Easting:**	371,765
Description:					

Sample:	CL8:13+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,300
Sample type:	soil	**Length:**		**Easting:**	371,670
Description:					

Sample:	CL8:14+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,300
Sample type:	soil	**Length:**		**Easting:**	371,580
Description:					

Sample:	CL8:15+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,340
Sample type:	soil	**Length:**		**Easting:**	371,470
Description:					

Sample:	CL8:16+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,350
Sample type:	soil	**Length:**		**Easting:**	371,370
Description:					

Sample:	CL8:17+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,350
Sample type:	soil	**Length:**		**Easting:**	371,270
Description:					

Sample:	CL8:18+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,340
Sample type:	soil	**Length:**		**Easting:**	371,175
Description:					

Sample:	CL8:19+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,350
Sample type:	soil	**Length:**		**Easting:**	371,070
Description:					

Sample:	CL8:20+00S	**Location:**	Heidi, Contour soil	**Northing:**	7,141,360
Sample type:	soil	**Length:**		**Easting:**	370,970
Description:					

APPENDIX II

ASSAY CERTIFICATES

INTERNATIONAL PLASMA LABORATORY LTD.

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

CERTIFICATE OF ANALYSIS
iPL 96K1221

Homestake Canada Inc

Out: Nov 26, 1996 Project: Heidi
In : Nov 26, 1996 Shipper: Jeff Lewis
PO#: Shipment: ID=C034311
Msg: Compilation of various jobs
Msg:

Document Distribution

	EN	RT	CC	IN	FX
1 Homestake Canada Inc	2	2	1	0	1
1000 - 700 W Pender St.	DL	3D	5D	BT	BL
Vancouver	0	0	0	0	0
BC V6C 1G8					
ATT: Adrienne Ross	Ph:604/684-2345				
	Fx:604/684-9831				

462 Samples 68= Rock 349= Soil 0= Core 0=RC Ct 0= Pulp 45=Other [122118:57:12:69112696]

Raw Storage:	03Mon/Dis	00Mon/Dis	--	--	--	03Mon/Dis	Mon=Month Dis=Discard
Pulp Storage:	12Mon/Dis	12Mon/Dis	--	--	--	12Mon/Dis	Rtn=Return Arc=Archive

Analytical Summary

##	Code	Method	Title	Limit Low	Limit High	Units	Description	Element	##
01	851P	Spec	iPL	See Data Pg		Job	iPL Job Number	iPL Job	01
02	313P	FAAA	Au	2	9999	ppb	Au FA/AAS finish 30g	Gold	02
03	364P	FAGrav	Au	See Data Pg		g/mt	Au FA/Grav in g/mt	Gold	03
04	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	04
05	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	05
06	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	06
07	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	07
08	703P	ICP	As	5	9999	ppm	As ICP 5 ppm	Arsenic	08
09	702P	ICP	Sb	5	9999	ppm	Sb ICP	Antimony	09
10	732P	ICP	Hg	3	9999	ppm	Hg ICP	Mercury	10
11	717P	ICP	Mo	1	9999	ppm	Mo ICP	Molydenum	11
12	747P	ICP	Tl	10	999	ppm	Tl ICP 10 ppm (Incomplete	Thallium	12
13	705P	ICP	Bi	2	999	ppm	Bi ICP	Bismuth	13
14	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	14
15	710P	ICP	Co	1	999	ppm	Co ICP	Cobalt	15
16	718P	ICP	Ni	1	999	ppm	Ni ICP	Nickel	16
17	704P	ICP	Ba	2	9999	ppm	Ba ICP (Incomplete Digest	Barium	17
18	727P	ICP	W	5	999	ppm	W ICP (Incomplete Digest	Tungsten	18
19	709P	ICP	Cr	1	9999	ppm	Cr ICP (Incomplete Digest	Chromium	19
20	729P	ICP	V	2	999	ppm	V ICP	Vanadium	20
21	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	21
22	713P	ICP	La	2	9999	ppm	La ICP (Incomplete Digest	Lanthanum	22
23	723P	ICP	Sr	1	9999	ppm	Sr ICP (Incomplete Digest	Strontium	23
24	731P	ICP	Zr	1	999	ppm	Zr ICP	Zirconium	24
25	736P	ICP	Sc	1	99	ppm	Sc ICP	Scandium	25
26	726P	ICP	Ti	0.01	1.00	%	Ti ICP (Incomplete Digest	Titanium	26
27	701P	ICP	Al	0.01	9.99	%	Al ICP (Incomplete Digest	Aluminum	27
28	708P	ICP	Ca	0.01	9.99	%	Ca ICP (Incomplete Digest	Calcium	28
29	712P	ICP	Fe	0.01	9.99	%	Fe ICP	Iron	29
30	715P	ICP	Mg	0.01	9.99	%	Mg ICP (Incomplete Digest	Magnesium	30
31	720P	ICP	K	0.01	9.99	%	K ICP (Incomplete Digest	Potassium	31
32	722P	ICP	Na	0.01	5.00	%	Na ICP (Incomplete Digest	Sodium	32
33	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	33

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No)
DL=DownLoad 3D=3-1/2 Disk 5D=5-1/4 Disk BT=BBS Type BL=BBS(1=Yes 0=No)

Totals: 1=Copy 0=Invoice 0=3-1/2 Disk 0=5-1/4 Disk

INTERNATIONAL PLASMA LABORATORY LTD.

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

CERTIFICATE OF ANALYSIS

iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 27, 1996
In: Nov 26, 1996

[122111:36:37:69112796]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
2511			9600530	3	---	<	34	52	106	20	<	<	1	<	<	<	34	41	166	<	62	25	1673	10	42	2	3	0.01	1.81
2513			9600530	3	---	<	31	35	109	<	<	<	1	<	<	<	19	35	171	<	45	20	768	20	28	2	3	0.01	1.22
2507			9600530	<	---	<	6	16	28	<	<	<	7	<	<	<	3	11	67	<	168	4	452	17	7	10	1	<	0.67
2512			9600530	3	---	<	7	16	55	7	<	<	2	<	<	<	7	21	104	<	108	13	360	20	15	6	2	<	1.00
1054			9600553	5	---	0.4	28	144	153	96	51	<	1	<	<	0.4	15	29	133	<	31	17	732	35	22	2	2	0.01	1.04
0+00N	3+00E		9600689	2	---	<	15	151	74	91	48	<	3	<	<	0.1	8	17	102	<	22	46	428	10	11	<	1	0.02	1.29
0+00N	3+50E		9600689	13	---	0.2	19	35	80	76	<	<	3	<	<	<	8	17	95	<	22	48	427	9	12	1	1	0.02	1.29
0+00N	4+00E		9600689	6	---	<	17	36	101	241	<	<	2	<	<	<	14	16	91	<	26	59	1073	12	12	1	1	0.04	1.30
0+00N	4+50E		9600689	107	---	0.9	28	172	193	1159	46	<	2	<	<	0.9	11	24	149	<	25	43	506	18	20	1	2	0.02	1.51
0+00N	5+00E		9600689	37	---	0.7	26	351	167	1532	113	<	3	<	<	0.5	8	18	148	<	21	38	402	15	23	1	1	0.02	1.18
0+00N	5+50E		9600689	8	---	1.2	30	73	125	248	9	<	3	<	<	<	20	33	88	<	25	48	894	24	20	2	2	0.04	1.46
0+00N	6+00E		9600689	15	---	<	31	58	89	555	17	<	2	<	4	<	15	34	146	<	25	35	944	31	21	2	3	0.02	1.40
1+00N	0+00	BL	9600689	6	---	0.1	19	34	76	88	6	<	1	<	<	<	10	21	68	<	21	38	428	20	9	<	1	0.02	1.30
1+00N	0+50E		9600689	6	---	<	28	36	90	200	7	<	2	<	<	<	15	26	265	<	28	49	994	17	41	1	1	0.02	1.98
1+00N	1+00E		9600689	11	---	0.1	19	37	80	474	13	<	2	<	<	<	8	19	105	<	23	47	445	13	14	1	1	0.02	1.35
1+00N	1+50E		9600689	5	---	0.1	26	42	102	104	7	<	2	<	<	<	17	28	202	<	52	60	895	24	17	2	3	0.06	1.65
1+00N	2+00E		9600689	16	---	0.2	20	36	81	236	10	<	1	<	<	0.3	9	18	124	<	19	36	472	14	22	1	1	0.02	1.14
1+00N	2+50E		9600689	7	---	0.1	19	42	92	138	11	<	2	<	<	<	9	20	152	<	22	40	492	17	20	1	1	0.01	1.37
1+00N	3+00E		9600689	4	---	0.2	22	57	121	114	8	<	2	<	<	<	8	22	188	<	24	43	535	16	24	1	2	0.02	1.59
1+00N	3+50E		9600689	7	---	1.3	22	47	117	92	6	<	2	<	<	<	14	24	147	<	25	47	731	16	14	1	1	0.02	1.54
1+00N	4+00E		9600689	11	---	0.1	19	79	135	293	13	<	2	<	<	0.1	13	23	94	<	27	48	497	14	12	1	2	0.03	1.82
1+00N	4+50E		9600689	5	---	0.1	28	46	104	78	12	<	2	<	<	<	16	30	154	<	25	42	978	26	15	1	1	0.01	1.43
1+00N	0+50W		9600689	3	---	0.2	20	27	69	74	<	<	2	<	<	<	9	19	83	<	25	46	505	15	14	1	1	0.02	1.33
1+00N	1+00W		9600689	5	---	0.1	18	22	66	92	<	<	2	<	<	<	8	19	90	<	22	40	413	16	9	1	1	0.02	1.30
1+00N	1+50W		9600689	26	---	0.2	22	39	80	681	16	<	2	<	<	0.2	10	23	122	<	22	33	570	14	73	1	1	0.02	1.40
1+00N	2+00W		9600689	3	---	0.2	16	26	56	77	9	<	2	<	<	<	6	13	51	<	15	43	415	12	7	<	<	0.02	0.93
1+00N	2+50W		9600689	1150	1.07	19.6	34	5829	178	1.2%	1858	<	2	<	47	4.6	8	16	170	<	13	24	375	11	35	1	1	0.01	0.89
1+00N	3+00W		9600689	112	---	2.4	35	611	565	2611	251	<	1	<	<	8.5	8	20	106	<	14	24	597	23	16	1	2	0.01	0.87
2+00N	0+00	BL	9600689	6	---	<	19	48	80	96	14	<	2	<	<	0.1	8	19	91	<	20	40	406	17	12	1	<	0.01	1.12
2+00N	0+50E		9600689	28	---	<	21	64	80	486	15	<	2	<	<	<	11	20	157	<	23	44	708	17	17	<	1	0.01	1.62
2+00N	1+00E		9600689	10	---	0.2	22	80	83	497	24	<	2	<	2	<	9	18	160	<	26	48	788	16	18	1	1	0.02	1.29
2+00N	1+50E		9600689	17	---	0.1	20	34	72	187	10	<	1	<	<	0.1	10	21	84	<	20	38	461	18	12	1	1	0.02	1.18
2+00N	2+00E		9600689	15	---	0.1	22	34	79	170	7	<	2	<	<	<	13	19	93	<	23	49	713	19	11	1	1	0.03	1.38
2+00N	2+50E		9600689	<	---	0.1	19	50	82	75	12	<	2	<	<	<	9	18	93	<	24	52	553	16	13	1	1	0.02	1.52
2+00N	3+00E		9600689	2	---	0.3	19	59	84	121	12	<	2	<	<	<	11	18	80	<	24	44	713	14	10	1	1	0.02	1.15
2+00N	3+50E		9600689	29	---	2.8	26	218	125	489	60	<	1	<	<	<	8	20	76	<	23	39	404	17	13	1	1	0.01	1.18
2+00N	4+00E		9600689	<	---	0.1	18	22	61	48	<	<	2	<	<	<	9	16	111	<	21	47	644	16	10	<	<	0.02	1.22
2+00N	4+50E		9600689	3	---	<	18	25	66	38	<	<	1	<	<	<	8	19	98	<	17	36	492	15	14	<	1	0.02	0.93
2+00N	5+00E		9600689	2	---	0.1	17	22	59	21	<	<	2	<	<	<	9	17	73	<	22	49	375	12	10	1	1	0.03	1.22
Min Limit			0	2	0.07	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
Max Reported*			9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method			Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 1 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:36:37:69112796] | Certified BC Assayer: David Chiu

Sample Name				Ca %	Fe %	Mg %	K %	Na %	P %
2511			S	0.23	4.07	0.59	0.13	0.02	0.05
2513			S	0.26	3.93	0.43	0.14	0.02	0.05
2507			R	0.04	1.52	0.19	0.07	0.02	0.01
2512			R	0.23	2.38	0.33	0.20	0.03	0.01
1054			S	0.22	3.47	0.38	0.09	0.01	0.05
0+00N	3+00E		S	0.12	2.52	0.33	0.04	0.02	0.05
0+00N	3+50E		S	0.11	2.78	0.33	0.04	0.01	0.05
0+00N	4+00E		S	0.11	4.11	0.30	0.06	0.01	0.06
0+00N	4+50E		S	0.21	2.99	0.44	0.07	0.02	0.06
0+00N	5+00E		S	0.16	4.18	0.31	0.08	0.02	0.09
0+00N	5+50E		S	0.15	3.68	0.48	0.08	0.02	0.09
0+00N	6+00E		S	0.27	3.53	0.47	0.09	0.02	0.08
1+00N	0+00	BL	S	0.06	2.79	0.31	0.06	0.01	0.06
1+00N	0+50E		S	0.47	3.41	0.47	0.08	0.02	0.11
1+00N	1+00E		S	0.13	2.98	0.36	0.06	0.01	0.07
1+00N	1+50E		S	0.15	3.60	0.70	0.11	0.02	0.07
1+00N	2+00E		S	0.26	2.79	0.30	0.08	0.02	0.08
1+00N	2+50E		S	0.33	3.04	0.35	0.06	0.01	0.07
1+00N	3+00E		S	0.34	2.97	0.39	0.07	0.02	0.09
1+00N	3+50E		S	0.17	3.00	0.42	0.07	0.02	0.07
1+00N	4+00E		S	0.10	3.03	0.44	0.04	0.02	0.05
1+00N	4+50E		S	0.15	3.62	0.34	0.10	0.02	0.10
1+00N	0+50W		S	0.11	3.05	0.36	0.07	0.02	0.08
1+00N	1+00W		S	0.07	2.65	0.32	0.06	0.01	0.07
1+00N	1+50W		S	0.72	2.77	0.40	0.07	0.02	0.10
1+00N	2+00W		S	0.04	2.63	0.14	0.04	0.01	0.06
1+00N	2+50W		S	0.13	6.44	0.23	0.05	0.01	0.06
1+00N	3+00W		S	0.17	4.20	0.21	0.05	0.01	0.08
2+00N	0+00	BL	S	0.09	2.93	0.24	0.06	0.02	0.07
2+00N	0+50E		S	0.14	3.27	0.36	0.06	0.02	0.09
2+00N	1+00E		S	0.12	3.90	0.29	0.08	0.02	0.09
2+00N	1+50E		S	0.08	2.88	0.31	0.06	0.02	0.05
2+00N	2+00E		S	0.07	3.16	0.33	0.07	0.01	0.06
2+00N	2+50E		S	0.12	3.42	0.31	0.06	0.01	0.07
2+00N	3+00E		S	0.07	3.33	0.27	0.07	0.01	0.08
2+00N	3+50E		S	0.05	3.27	0.26	0.06	0.02	0.06
2+00N	4+00E		S	0.08	3.10	0.24	0.05	0.01	0.07
2+00N	4+50E		S	0.14	2.89	0.22	0.06	0.01	0.08
2+00N	5+00E		S	0.08	2.80	0.32	0.05	0.01	0.05
Min Limit				0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*				9.99	9.99	9.99	9.99	5.00	5.00
Method				ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 26, 1996
In: Nov 26, 1996

[122118:58:45:69112696]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
2+00N	5+50E		9600689	<	—	<	17	16	61	31	<	<	1	<	<	<	9	20	86	<	19	33	310	19	18	1	1	0.02	1.19
2+00N	0+50W		9600689	3	—	0.1	21	33	76	34	10	<	2	<	<	<	9	21	92	<	18	35	391	20	11	<	1	0.01	1.13
2+00N	1+00W		9600689	11	—	0.3	20	27	68	151	10	<	2	<	<	<	8	17	57	<	22	43	410	16	8	1	<	0.02	1.36
2+00N	1+50W		9600689	2	—	0.2	21	38	79	30	7	<	1	<	<	<	11	21	98	<	21	37	541	19	13	1	1	0.02	1.22
2+00N	2+00W		9600689	<	—	0.2	18	43	75	50	9	<	3	<	<	<	8	18	103	<	21	37	512	15	16	<	<	0.01	1.38
2+00N	2+50W		9600689	14	—	0.2	19	35	65	28	9	<	1	<	<	<	7	16	81	<	18	37	447	14	8	1	<	0.01	1.31
2+00N	3+00W		9600689	5	—	0.2	17	29	65	37	7	<	2	<	<	<	6	17	89	<	18	35	280	15	10	<	<	0.01	1.20
3+00N	0+00	BL	9600689	8	—	0.1	20	29	69	41	8	<	2	<	<	0.1	9	20	109	<	18	34	375	18	14	1	<	0.01	1.05
3+00N	0+50E		9600689	22	—	<	21	35	68	36	8	<	2	<	<	<	9	19	92	<	23	43	519	15	14	1	<	0.01	1.24
3+00N	1+00E		9600689	12	—	0.2	30	52	72	119	18	<	2	<	<	<	18	23	131	<	26	48	942	17	21	<	1	0.02	1.71
3+00N	1+50E		9600689	98	—	1.1	23	177	100	967	85	<	2	<	18	<	11	20	142	<	19	36	604	15	49	1	1	0.01	0.98
3+00N	2+00E		9600689	16	—	0.1	28	60	100	306	25	<	2	<	<	0.2	13	27	104	<	20	36	511	19	18	1	2	0.02	1.03
3+00N	2+50E		9600689	450	—	7.8	38	336	143	1990	177	<	1	<	37	<	13	23	132	<	14	24	858	19	56	2	2	0.02	0.79
3+00N	3+00E		9600689	25	—	0.1	30	67	102	54	8	<	2	<	<	<	21	31	268	<	26	38	1407	24	23	1	1	0.01	1.52
3+00N	3+50E		9600689	2	—	<	22	43	71	25	10	<	1	<	<	<	13	17	122	<	24	42	1449	18	21	1	<	0.01	0.95
3+00N	4+00E		9600689	<	—	<	17	27	69	72	<	<	2	<	<	<	12	25	207	<	37	51	773	16	21	1	2	0.03	1.55
3+00N	4+50E		9600689	16	—	<	18	28	61	35	<	<	1	<	<	<	9	18	71	<	22	46	423	16	10	1	1	0.02	0.98
3+00N	5+00E		9600689	<	—	<	33	29	74	24	<	<	2	<	<	0.1	11	22	134	<	17	21	1152	17	64	4	1	0.01	1.19
3+00N	0+50W		9600689	6	—	<	21	35	73	27	12	<	1	<	<	<	10	25	70	<	16	28	366	20	11	1	1	0.01	0.83
3+00N	1+00W		9600689	26	—	<	18	26	66	31	5	<	1	<	<	<	10	17	124	<	21	46	675	15	12	<	<	0.01	1.35
3+00N	1+50W		9600689	117	—	<	15	34	61	15	8	<	1	<	<	<	7	14	130	<	16	35	690	14	14	1	<	0.01	0.97
3+00N	2+00W		9600689	7	—	<	20	39	83	56	21	<	1	<	<	<	9	22	96	<	18	32	463	20	14	<	<	0.01	1.09
3+00N	2+50W		9600689	4	—	<	18	29	72	21	5	<	2	<	<	<	10	20	110	<	20	35	481	19	11	<	<	0.01	1.23
3+00N	3+00W		9600689	40	—	<	18	29	72	95	9	<	1	<	<	<	8	20	77	<	18	31	279	18	10	<	1	0.01	1.15
3+00N	3+50W		9600689	5	—	<	15	19	52	21	<	<	2	<	<	<	6	14	61	<	18	35	286	14	8	<	<	0.01	1.07
3+00N	4+00W		9600689	2	—	0.2	20	38	69	26	5	<	3	<	<	<	9	18	94	<	19	35	641	16	10	1	1	0.01	1.22
3+00N	4+50W		9600689	18	—	<	18	30	69	31	6	<	2	<	<	0.2	8	18	108	<	17	30	531	17	15	<	<	0.01	1.06
3+00N	5+00W		9600689	18	—	0.2	21	81	121	68	23	<	2	<	<	0.4	13	19	162	<	13	26	1638	16	28	1	<	<	1.24
3+00N	5+50W		9600689	2	—	0.2	18	41	101	36	16	<	2	<	<	0.1	9	20	96	<	15	25	535	20	11	<	<	0.01	0.99
3+00N	6+00W		9600689	10	—	0.2	17	52	95	78	14	<	1	<	<	0.2	11	14	97	<	12	31	1415	16	10	1	<	0.01	0.89
3+00N	6+50W		9600689	15	—	0.1	16	33	77	75	17	<	1	<	<	0.2	7	17	82	<	15	30	355	19	13	1	1	0.01	1.04
3+00N	7+00W		9600689	30	—	0.4	16	68	107	112	82	<	1	<	<	0.1	6	13	87	<	12	25	380	18	17	<	<	<	0.92
4+00N	0+00	BL	9600689	2	—	<	18	51	63	32	22	<	2	<	<	<	8	18	79	<	19	34	338	16	11	1	1	0.01	1.15
4+00N	0+50E		9600689	10	—	0.2	21	182	75	96	91	<	2	<	<	<	10	23	70	<	16	30	413	16	16	1	1	0.02	0.97
4+00N	1+00E		9600689	25	—	0.5	18	95	90	398	38	<	1	<	<	0.4	8	16	52	<	17	27	475	16	14	1	<	0.01	0.83
4+00N	1+50E		9600689	28	—	0.4	22	156	94	314	64	<	1	<	<	0.4	11	23	85	<	21	38	550	19	14	1	1	0.01	1.15
4+00N	2+00E		9600689	3	—	0.1	21	38	78	38	6	<	2	<	<	<	8	15	104	<	18	40	755	17	9	<	<	0.01	1.15
4+00N	2+50E		9600689	8	—	<	34	51	133	84	5	<	2	<	<	<	25	35	117	<	25	41	1266	23	18	1	2	0.02	1.41
4+00N	3+00E		9600689	9	—	0.1	24	43	84	42	6	<	2	<	<	<	15	22	130	<	26	47	959	20	13	1	1	0.01	1.59
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method				Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 26, 1996 | Page 2 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 [122118:58:46:69112696] | Certified BC Assayer: David Chiu

Sample Name	Ca %	Fe %	Mg %	K %	Na %	P %
2+00N 5+50E	0.14	2.59	0.33	0.08	0.02	0.06
2+00N 0+50W	0.08	2.87	0.26	0.06	0.01	0.06
2+00N 1+00W	0.05	3.09	0.27	0.06	0.01	0.07
2+00N 1+50W	0.13	2.88	0.32	0.07	0.01	0.08
2+00N 2+00W	0.15	3.34	0.25	0.07	0.01	0.10
2+00N 2+50W	0.06	2.73	0.20	0.06	0.02	0.10
2+00N 3+00W	0.09	2.23	0.27	0.05	0.02	0.07
3+00N 0+00 BL	0.11	2.86	0.24	0.07	0.01	0.07
3+00N 0+50E	0.11	3.55	0.28	0.07	0.01	0.09
3+00N 1+00E	0.15	3.11	0.47	0.07	0.02	0.09
3+00N 1+50E	0.32	3.52	0.27	0.09	0.02	0.07
3+00N 2+00E	0.15	2.93	0.33	0.05	0.02	0.06
3+00N 2+50E	0.09	5.10	0.22	0.13	0.02	0.05
3+00N 3+00E	0.19	3.94	0.40	0.09	0.02	0.11
3+00N 3+50E	0.21	3.49	0.16	0.06	0.02	0.16
3+00N 4+00E	0.33	3.12	0.51	0.06	0.02	0.06
3+00N 4+50E	0.10	3.22	0.29	0.06	0.01	0.05
3+00N 5+00E	2.18	2.49	0.36	0.06	0.02	0.13
3+00N 0+50W	0.10	2.56	0.24	0.05	0.01	0.06
3+00N 1+00W	0.11	2.93	0.30	0.06	0.02	0.07
3+00N 1+50W	0.15	2.47	0.17	0.08	0.01	0.11
3+00N 2+00W	0.12	2.95	0.28	0.06	0.01	0.05
3+00N 2+50W	0.09	2.82	0.30	0.06	0.01	0.06
3+00N 3+00W	0.06	2.60	0.28	0.05	0.01	0.05
3+00N 3+50W	0.07	2.51	0.19	0.03	0.01	0.04
3+00N 4+00W	0.08	2.66	0.22	0.07	0.02	0.08
3+00N 4+50W	0.16	2.73	0.22	0.06	0.02	0.08
3+00N 5+00W	0.45	3.03	0.15	0.07	0.02	0.18
3+00N 5+50W	0.09	2.75	0.23	0.06	0.01	0.07
3+00N 6+00W	0.05	2.53	0.11	0.07	0.01	0.07
3+00N 6+50W	0.12	2.51	0.23	0.07	0.01	0.05
3+00N 7+00W	0.07	2.32	0.13	0.08	0.02	0.08
4+00N 0+00 BL	0.07	2.44	0.27	0.05	0.02	0.05
4+00N 0+50E	0.10	2.69	0.27	0.05	0.01	0.06
4+00N 1+00E	0.04	2.71	0.15	0.06	0.01	0.06
4+00N 1+50E	0.09	2.98	0.31	0.07	0.01	0.07
4+00N 2+00E	0.05	3.33	0.13	0.07	0.01	0.09
4+00N 2+50E	0.13	3.43	0.43	0.07	0.02	0.09
4+00N 3+00E	0.08	3.45	0.38	0.08	0.01	0.08
Min Limit	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	9.99	9.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 26, 1996
In: Nov 26, 1996

[122118:58:46:69112696]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
4+00N	3+50E		9600689	13	---	0.1	22	51	67	34	10	<	2	<	<	<	13	20	126	<	22	42	787	18	15	1	1	0.01	1.24
4+00N	4+00E		9600689	12	---	<	25	41	80	54	5	<	2	<	<	<	16	27	143	<	21	36	1048	19	17	1	1	0.02	1.25
4+00N	4+50E		9600689	2	---	<	28	29	75	23	<	<	3	<	<	<	15	27	187	<	47	72	1266	29	21	1	1	0.02	1.29
4+00N		BL	9600689	48	---	0.1	15	47	55	31	22	<	1	<	<	<	6	16	72	<	17	35	290	15	11	<	<	0.01	0.99
4+00N	0+50W		9600689	30	---	0.1	18	69	83	49	21	<	2	<	<	<	9	17	144	<	17	32	527	16	21	<	<	0.01	1.07
4+00N	1+00W		9600689	9	---	0.1	24	41	90	18	5	<	1	<	<	<	18	28	77	<	21	39	712	20	13	1	2	0.03	1.15
4+00N	1+50W		9600689	7	---	0.2	16	36	61	27	6	<	2	<	<	<	8	16	113	<	19	38	419	16	23	<	<	0.01	1.16
4+00N	2+00W		9600689	11	---	0.2	24	43	83	29	7	<	2	<	<	<	11	20	108	<	21	39	679	21	16	1	<	0.01	1.24
4+00N	2+50W		9600689	6	---	0.2	18	44	87	28	9	<	2	<	<	0.1	11	18	82	<	17	33	787	17	10	<	<	0.01	1.11
4+00N	3+00W		9600689	6	---	0.1	18	37	77	26	7	<	1	<	<	<	11	19	89	<	22	46	768	18	11	1	1	0.02	1.41
4+00N	3+50W		9600689	31	---	0.2	21	81	118	53	34	<	2	<	<	0.4	11	23	103	<	18	33	676	20	16	1	1	0.02	1.06
4+00N	4+00W		9600689	4	---	<	21	32	75	21	5	<	1	<	<	<	8	19	90	<	16	35	514	20	11	1	<	0.01	1.08
4+00N	4+50W		9600689	5	---	0.1	18	44	77	23	8	<	2	<	<	<	9	16	99	<	17	36	982	15	13	<	<	0.01	1.06
4+00N	5+00W		9600689	7	---	0.2	19	138	116	115	68	<	1	<	<	<	11	21	112	<	15	27	698	21	18	1	1	0.01	1.04
4+00N	5+50W		9600689	16	---	0.2	18	61	83	39	27	<	1	<	<	<	7	15	91	<	12	36	581	18	13	1	<	0.01	0.88
4+00N	6+00W		9600689	6	---	0.5	21	53	123	53	30	<	2	<	<	0.5	8	18	64	<	10	26	387	21	17	1	<	<	0.42
4+00N	6+50W		9600689	7	---	0.3	20	43	98	93	19	<	1	<	<	0.1	11	21	90	<	12	26	547	24	19	1	1	0.01	0.80
4+00N	7+00W		9600689	27	---	0.2	15	31	82	78	23	<	1	<	<	0.2	8	17	66	<	10	20	438	20	16	1	1	0.01	0.61
4+00N	7+50W		9600689	82	---	0.3	23	64	121	59	32	<	2	<	<	<	13	23	206	<	17	30	842	25	33	3	2	0.01	1.37
5+00N	0+00	BL	9600689	7	---	0.2	24	44	101	13	<	<	2	<	<	<	13	26	108	<	20	33	989	25	16	1	1	0.01	1.06
5+00N	0+50E		9600689	29	---	<	22	35	85	45	7	<	2	<	<	<	12	25	106	<	17	31	607	26	15	1	2	0.01	0.89
5+00N	1+00E		9600689	74	---	4.1	14	419	113	1182	222	<	1	<	8	0.7	5	11	152	<	12	23	366	14	37	1	<	<	0.78
5+00N	1+50E		9600689	163	---	6.4	28	545	182	1728	250	<	1	<	<	0.5	7	16	144	<	18	17	267	19	128	1	2	0.01	0.44
5+00N	2+00E		9600689	258	---	20.0	20	2277	123	3740	868	<	1	<	<	3.9	4	11	116	<	12	18	129	19	50	1	1	<	0.56
5+00N	2+50E		9600689	13	---	0.1	40	83	116	84	9	<	2	<	<	<	31	35	172	<	25	36	1986	24	24	2	2	0.01	1.63
5+00N	3+00E		9600689	97	---	0.2	37	137	112	177	58	<	3	<	<	<	23	37	207	<	26	34	1652	22	37	2	2	0.01	1.42
5+00N	3+50E		9600689	6	---	0.1	31	73	93	37	19	<	2	<	<	<	18	27	131	<	20	22	1093	30	18	2	1	0.01	1.11
5+00N	4+00E		9600689	8	---	<	32	52	95	23	14	<	1	<	<	<	19	25	112	<	22	41	865	21	13	1	1	0.03	1.19
5+00N	0+50W		9600689	90	---	<	24	41	76	13	<	<	1	<	<	<	16	28	75	<	23	40	560	24	12	1	1	0.03	1.12
5+00N	1+00W		9600689	10	---	0.1	22	68	98	33	20	<	3	<	<	<	13	25	86	<	21	40	653	24	17	1	1	0.01	1.15
5+00N	1+50W		9600689	4	---	<	19	50	78	114	14	<	1	<	<	<	8	18	127	<	14	32	485	19	24	1	1	0.01	0.85
5+00N	2+00W		9600689	267	---	<	19	51	102	35	8	<	2	<	<	<	11	20	122	<	20	37	930	17	13	1	1	0.01	1.13
5+00N	2+50W		9600689	3	---	0.1	16	50	101	45	12	<	2	<	<	<	8	15	118	<	16	35	777	15	23	1	<	0.01	0.99
5+00N	3+00W		9600689	13	---	0.1	18	34	69	8	<	<	2	<	<	<	9	20	74	<	19	36	492	15	9	1	1	0.02	0.97
5+00N	3+50W		9600689	2	---	0.2	20	52	84	24	5	<	2	<	<	<	9	19	207	<	15	25	924	22	39	4	2	0.01	1.15
5+00N	4+00W		9600689	3	---	0.3	24	50	100	14	<	<	2	<	<	<	11	28	118	<	16	23	1098	28	18	2	3	0.01	1.07
5+00N	4+50W		9600689	7	---	0.3	16	24	61	18	<	<	2	<	<	<	6	15	73	<	17	36	368	16	9	<	<	<	1.09
5+00N	5+00W		9600689	121	---	1.7	20	51	95	32	12	<	1	<	<	<	10	19	97	<	12	24	774	23	16	1	1	0.01	0.85
1497			9600689	49	---	0.4	39	116	63	1824	113	<	3	<	6	0.6	4	7	47	<	70	3	154	10	9	2	1	<	0.23
Min Limit			0	2	0.07	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
Max Reported*			9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method			Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 96K1221

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 26, 1996 | Page 3 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122118:58:47:69112696] | Certified BC Assayer: David Chiu

Sample Name	Ca %	Fe %	Mg %	K %	Na %	P %
4+00N 3+50E	0.13	3.11	0.33	0.08	0.02	0.07
4+00N 4+00E	0.17	3.12	0.36	0.08	0.01	0.07
4+00N 4+50E	0.28	4.25	0.45	0.09	0.01	0.10
4+00N BL	0.08	2.32	0.19	0.05	0.01	0.07
4+00N 0+50W	0.15	2.77	0.23	0.08	0.02	0.09
4+00N 1+00W	0.11	2.76	0.38	0.06	0.01	0.07
4+00N 1+50W	0.22	2.61	0.27	0.07	0.01	0.09
4+00N 2+00W	0.12	3.38	0.25	0.09	0.02	0.10
4+00N 2+50W	0.06	2.80	0.21	0.07	0.02	0.09
4+00N 3+00W	0.07	3.14	0.29	0.08	0.02	0.08
4+00N 3+50W	0.12	2.89	0.30	0.07	0.02	0.05
4+00N 4+00W	0.07	2.87	0.16	0.07	0.01	0.08
4+00N 4+50W	0.14	3.19	0.15	0.07	0.01	0.09
4+00N 5+00W	0.17	3.03	0.21	0.06	0.02	0.09
4+00N 5+50W	0.09	2.48	0.09	0.07	0.02	0.10
4+00N 6+00W	0.17	2.43	0.05	0.07	0.01	0.09
4+00N 6+50W	0.11	2.81	0.17	0.07	0.02	0.05
4+00N 7+00W	0.13	2.45	0.14	0.06	0.02	0.06
4+00N 7+50W	0.52	3.52	0.26	0.10	0.02	0.12
5+00N 0+00 BL	0.17	3.32	0.20	0.08	0.02	0.10
5+00N 0+50E	0.14	2.88	0.28	0.07	0.02	0.06
5+00N 1+00E	0.09	2.67	0.11	0.16	0.02	0.10
5+00N 1+50E	0.09	3.99	0.12	0.31	0.02	0.05
5+00N 2+00E	0.06	3.16	0.12	0.22	0.02	0.06
5+00N 2+50E	0.19	4.66	0.41	0.11	0.02	0.13
5+00N 3+00E	0.31	4.11	0.37	0.12	0.02	0.12
5+00N 3+50E	0.13	3.68	0.29	0.16	0.02	0.10
5+00N 4+00E	0.10	3.53	0.37	0.08	0.02	0.07
5+00N 0+50W	0.12	2.96	0.37	0.06	0.02	0.06
5+00N 1+00W	0.07	3.27	0.28	0.08	0.02	0.07
5+00N 1+50W	0.22	2.84	0.17	0.07	0.02	0.08
5+00N 2+00W	0.15	3.08	0.26	0.07	0.01	0.08
5+00N 2+50W	0.24	2.86	0.18	0.07	0.01	0.09
5+00N 3+00W	0.10	2.80	0.30	0.05	0.01	0.06
5+00N 3+50W	0.79	3.24	0.17	0.08	0.01	0.16
5+00N 4+00W	0.26	4.35	0.24	0.07	0.01	0.10
5+00N 4+50W	0.05	2.41	0.17	0.06	0.02	0.07
5+00N 5+00W	0.14	2.82	0.15	0.06	0.01	0.09
1497	0.12	2.64	0.04	0.12	0.03	0.01
Min Limit	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	9.99	9.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

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Client: Homestake Canada Inc — iPL: 96K1221 — Out: Nov 27, 1996 — — Section 1 of 2
Project: Heidi 462 Pulp — In: Nov 26, 1996 — [122111:49:43:69112796] — Certified BC Assayer: David Chiu

Sample Name		iPL Job	Au ppb	Au g/mt	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 %
1498	R	9600689	660	--	5.7	36	859	30	5.7%	645	<	3	<	132	<	9	8	<	<	83	4	35	6	10	4	<	<	0.21
1499	R	9600689	87	--	0.2	23	42	64	1.1%	60	<	5	<	4	0.4	6	15	67	<	107	4	91	9	6	3	1	<	0.31
1500	R	9600689	76	--	0.5	20	104	23	5167	85	<	2	<	16	<	2	7	34	<	77	4	151	8	20	4	1	<	0.20
1501	R	9600689	351	--	4.2	34	341	17	5.3%	293	<	7	<	391	<	17	7	<	<	109	2	25	3	3	3	<	<	0.14
1502	R	9600689	143	--	0.4	36	470	16	9472	354	<	3	<	56	<	1	5	17	<	125	2	35	6	6	3	<	<	0.14
1503	R	9600689	41	--	0.4	29	65	10	6574	41	<	9	<	13	<	3	8	52	<	167	4	42	9	5	4	1	<	0.18
1504	R	9600689	20	--	0.1	12	15	24	160	12	<	3	<	<	<	4	11	64	<	100	6	183	15	29	5	1	0.01	0.32
1505	R	9600689	5600	6.93	2.4	64	422	212	8715	284	<	7	<	73	0.8	7	9	38	<	128	4	205	4	27	5	1	<	0.19
1506	R	9600689	39	--	4.8	74	213	10	9681	139	<	4	<	138	<	3	9	15	<	142	3	48	3	6	4	<	<	0.15
1507	R	9600689	77	--	3.6	29	356	19	1.2%	238	<	7	<	158	<	2	6	56	<	138	2	59	6	17	5	<	<	0.18
1508	R	9600689	603	--	3.2	58	1082	75	8.7%	615	<	4	<	308	<	48	12	<	<	45	8	476	<	54	8	<	<	0.12
1509	R	9600689	496	--	0.6	79	95	7	4451	58	<	2	<	36	<	1	4	85	<	28	5	17	30	3	8	1	<	0.47
1510	R	9600689	6667	7.00	27.1	91	3074	13	4.5%	2599	<	3	<	620	<	5	9	<	<	94	5	51	4	4	10	<	<	0.26
1511	R	9600689	833	--	8.1	148	534	3	13%	486	<	5	<	469	<	41	7	<	<	50	7	8	<	3	8	<	<	0.11
1512	R	9600689	61	--	0.4	110	93	8	5596	71	<	2	<	562	<	3	6	27	<	73	4	22	6	3	5	1	<	0.23
1513	R	9600689	1167	1.00	2.8	46	181	5	1273	109	<	7	<	82	<	1	5	39	<	125	2	61	8	3	4	<	<	0.19
1514	R	9600689	847	--	1.3	35	85	5	2.0%	92	<	3	<	62	<	8	7	14	<	106	2	45	6	2	5	<	<	0.22
1515	R	9600689	65	--	0.5	42	69	7	2302	39	<	6	<	21	<	5	10	40	<	120	3	95	5	6	7	1	<	0.28
1516	R	9600689	1200	3.40	2.3	40	506	14	766	350	<	3	<	68	<	1	5	48	<	122	2	44	6	4	6	<	<	0.20
1517	R	9600689	47	--	0.2	22	56	26	133	32	<	7	<	<	<	4	9	52	<	143	3	258	11	13	6	1	<	0.24
1518	R	9600689	19	--	<	9	14	12	68	14	<	3	<	<	<	8	15	43	<	109	6	364	15	9	5	1	<	0.42
1519	R	9600689	229	--	0.2	17	105	11	72	63	<	5	<	<	<	6	11	47	<	98	4	254	20	8	6	1	<	0.35
1520	R	9600689	503	--	30.2	26	1414	4	16%	950	<	3	<	0.2%	<	3	3	<	<	50	6	16	<	6	8	<	<	0.17
1521	R	9600689	171	--	6.5	134	857	15	9701	686	<	6	<	371	<	3	10	90	<	69	9	151	4	45	12	<	<	0.27
1522	R	9600689	21	--	0.2	16	30	15	990	18	<	3	<	12	<	3	14	39	<	114	4	189	11	30	3	1	<	0.32
1523	R	9600689	24	--	<	63	20	81	820	22	<	4	<	<	0.4	6	13	57	<	74	6	180	13	14	5	2	0.01	0.49
00028	R	9600689	37	--	0.4	9	647	6	507	101	<	4	<	215	<	1	5	35	<	190	2	28	10	8	6	<	<	0.17
00029	R	9600689	1460	1.50	25.9	55	2.7%	111	2.3%	7056	<	4	<	86	20.1	1	3	54	<	119	11	32	7	75	5	4	<	0.29
00030	R	9600689	853	--	51.8	126	17638	108	4.7%	1.1%	<	2	<	58	21.6	1	4	<	<	90	6	51	8	8	8	4	<	0.28
00031	R	9600689	607	--	41.8	172	14101	7638	8713	4911	<	6	<	<	0.1m	2	7	49	<	157	2	64	6	9	4	<	<	0.17
00032	R	9600689	1733	1.90	16.5	74	5374	28	4.2%	3469	<	2	<	854	2.6	2	7	<	<	117	3	15	4	54	5	1	<	0.08
00033	R	9600689	71	--	2.2	7	217	25	1304	141	<	7	<	24	<	1	4	51	<	167	2	23	14	18	9	<	<	0.22
00034	R	9600689	3800	3.60	1.1	96	94	14	13%	340	<	2	<	51	<	20	5	<	<	58	6	24	<	30	8	3	<	0.19
00035	R	9600689	5533	5.40	29.5	53	2.5%	38	8.3%	1.2%	<	2	<	239	9.2	2	7	<	<	32	6	44	5	277	9	3	<	0.23
00036	R	9600689	324	--	0.5	42	152	3	4.2%	122	<	4	<	57	<	16	6	<	<	118	4	18	3	3	3	<	<	0.14
00037	R	9600689	2000	2.00	1.8	46	166	3	6.7%	362	<	6	<	36	<	100	11	<	<	102	3	350	4	8	4	<	<	0.11
2+00N 9+50W	S	9600690	41	--	1.8	29	159	244	320	55	<	2	<	<	<	13	30	167	<	21	34	858	32	23	2	4	0.01	1.31
2+00N 10+00W	S	9600690	53	--	0.4	29	49	114	875	28	<	2	<	<	<	12	19	111	<	13	23	576	44	39	1	2	0.01	0.82
2+00N 10+50W	S	9600690	38	--	0.4	38	67	105	285	18	<	3	<	<	<	14	24	149	<	27	50	871	27	41	1	1	0.02	1.42
Min Limit		0	2	0.07	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
Max Reported*		9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method		Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 96K1221

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 4 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:49:44:69112796] | Certified BC Assayer: David Chiu

Sample Name		Ca %	Fe %	Mg %	K %	Na %	P %
1498	R	0.03	5.86	0.02	0.13	0.04	<
1499	R	0.06	2.31	0.07	0.19	0.03	0.01
1500	R	0.63	2.84	0.04	0.11	0.04	0.01
1501	R	0.01	5.71	0.01	0.10	0.02	0.01
1502	R	0.06	3.73	0.01	0.09	0.03	<
1503	R	0.05	3.57	0.01	0.17	0.03	0.04
1504	R	0.65	1.43	0.07	0.22	0.03	0.01
1505	R	0.60	4.55	0.02	0.10	0.02	0.01
1506	R	0.11	5.29	0.02	0.09	0.02	0.01
1507	R	0.10	4.07	0.01	0.12	0.02	0.05
1508	R	5.43	15%	0.02	0.08	0.01	0.01
1509	R	0.07	3.03	0.05	0.38	0.02	0.01
1510	R	0.08	9.02	0.04	0.16	0.02	0.01
1511	R	0.01	15%	0.01	0.11	0.01	<
1512	R	0.03	5.24	0.04	0.21	0.02	<
1513	R	0.04	3.90	0.01	0.15	0.02	0.01
1514	R	0.02	3.90	0.02	0.16	0.02	0.01
1515	R	0.19	3.19	0.05	0.20	0.02	0.01
1516	R	0.02	3.87	0.02	0.16	0.01	0.01
1517	R	0.17	2.12	0.03	0.16	0.02	0.01
1518	R	0.28	1.73	0.10	0.17	0.03	0.01
1519	R	0.20	1.62	0.05	0.20	0.03	0.01
1520	R	0.01	14%	0.02	0.10	0.01	0.01
1521	R	0.20	13%	0.04	0.17	0.01	0.02
1522	R	0.72	1.60	0.08	0.16	0.03	0.01
1523	R	0.36	3.09	0.13	0.27	0.02	0.01
00028	R	0.01	0.95	0.01	0.15	0.01	0.01
00029	R	0.02	4.79	0.01	0.28	0.01	0.10
00030	R	0.01	5.14	0.01	0.28	0.01	0.03
00031	R	0.01	2.74	0.01	0.13	0.01	0.01
00032	R	0.01	4.50	<	0.08	0.01	0.01
00033	R	0.01	0.89	0.01	0.22	0.01	<
00034	R	0.01	11%	0.01	0.13	0.01	0.04
00035	R	0.08	8.52	0.01	0.14	0.01	0.04
00036	R	0.01	5.50	0.02	0.12	0.02	0.01
00037	R	0.24	7.51	0.02	0.08	0.01	<
2+00N 9+50W	S	0.21	3.79	0.35	0.06	0.02	0.06
2+00N 10+00W	S	0.06	3.86	0.12	0.07	0.02	0.06
2+00N 10+50W	S	0.50	4.61	0.33	0.07	0.02	0.09
Min Limit		0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 27, 1996
In: Nov 26, 1996

[122111:38:39:69112796]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
2+00N	11+00W		9600690	24	---	0.3	35	56	140	219	28	<	2	<	<	<	12	29	137	<	21	34	724	37	21	1	3	0.02	1.08
2+00N	11+50W		9600690	12	---	0.8	30	128	141	202	49	<	2	<	<	<	13	26	96	<	18	29	946	34	19	1	2	0.01	0.90
2+00N	12+00W		9600690	17	---	0.1	18	36	72	15	6	<	1	<	<	<	9	19	144	<	20	37	681	20	20	1	1	0.01	1.20
2+00N	12+50W		9600690	6	---	0.3	31	55	97	9	<	<	1	<	<	<	21	29	135	<	18	24	1489	32	24	1	2	0.01	1.12
3+00N	7+50W		9600690	<	---	0.1	16	28	65	37	<	<	2	<	<	<	7	13	93	<	18	48	493	18	12	<	<	0.02	1.19
3+00N	8+00W		9600690	8	---	0.1	18	44	105	44	20	<	2	<	<	<	9	18	129	<	21	51	770	21	21	1	1	0.03	1.08
3+00N	8+50W		9600690	8	---	0.6	22	92	104	132	43	<	2	<	<	<	9	20	59	<	11	23	619	34	9	1	1	0.01	0.78
3+00N	9+00W		9600690	16	---	<	24	50	122	33	8	<	2	<	<	<	9	20	78	<	17	49	699	23	9	1	1	0.02	1.14
3+00N	9+50W		9600690	5	---	0.4	26	102	215	120	36	<	1	<	<	0.6	16	21	140	<	21	39	1803	26	19	1	1	0.01	0.86
3+00N	10+00W		9600690	25	---	0.7	35	138	174	76	28	<	1	<	<	<	18	28	161	<	17	27	1447	44	26	1	2	0.01	0.99
3+00N	10+50W		9600690	31	---	4.5	41	194	197	266	62	<	2	<	<	<	24	38	302	<	42	48	1676	44	38	2	8	0.06	1.21
3+00N	11+00W		9600690	41	---	6.6	43	790	274	281	182	<	2	<	<	<	13	32	162	<	16	27	874	33	31	1	3	0.01	1.00
3+00N	11+50W		9600690	20	---	0.7	47	82	225	344	35	<	2	<	<	0.3	16	37	173	<	29	35	1310	44	36	1	4	0.02	1.07
3+00N	12+00W		9600690	121	---	3.4	27	847	258	1816	212	<	1	<	4	<	8	18	231	<	30	28	608	36	53	1	3	<	0.97
3+00N	12+50W		9600690	76	---	7.2	28	1150	282	1618	539	<	2	<	12	1.0	8	20	89	<	11	18	694	31	57	1	2	0.01	0.62
3+00N	13+00W		9600690	4	---	0.4	25	39	92	11	10	<	1	<	<	<	16	31	125	<	14	25	1468	33	29	4	5	0.01	0.93
3+00N	13+50W		9600690	20	---	0.3	27	47	65	12	6	<	1	<	<	<	19	37	141	<	14	22	1238	36	30	4	4	0.01	0.90
4+00N	8+00W		9600690	8	---	0.3	21	40	90	57	28	<	3	<	<	<	9	18	70	<	18	37	575	18	15	1	1	0.01	1.23
4+00N	8+50W		9600690	50	---	3.4	25	841	264	866	401	<	2	<	<	1.0	9	20	106	<	21	43	696	23	22	1	1	0.01	1.37
4+00N	9+00W		9600690	3	---	0.1	23	44	92	33	7	<	2	<	<	<	15	30	210	<	23	39	1310	26	24	2	4	0.01	1.58
4+00N	9+50W		9600690	14	---	0.4	27	193	502	61	16	<	2	<	<	<	15	36	116	<	22	39	1041	27	17	1	3	0.04	1.25
4+00N	10+00W		9600690	93	---	0.4	41	112	215	51	31	<	2	<	<	<	23	37	301	<	69	74	1349	31	43	4	9	0.11	1.50
4+00N	10+50W		9600690	87	---	1.4	34	139	154	80	30	<	2	<	<	<	22	30	177	<	14	29	1627	38	41	1	2	0.01	1.04
4+00N	11+00W		9600690	15	---	2.2	25	151	238	96	41	<	2	<	<	<	11	25	305	<	17	31	1507	26	26	2	3	0.01	1.25
4+00N	11+50W		9600690	18	---	0.3	22	52	101	41	10	<	1	<	<	<	11	24	172	<	18	32	864	23	25	2	3	0.02	1.08
4+00N	12+00W		9600690	20	---	0.7	29	58	123	31	10	<	2	<	<	<	16	32	172	<	21	33	1449	35	24	2	4	0.02	1.13
4+00N	12+50W		9600690	75	---	2.0	34	222	372	245	92	<	2	<	<	<	15	33	147	<	24	30	1102	39	32	4	8	0.01	0.92
4+00N	13+00W		9600690	130	---	0.7	17	169	366	354	77	<	1	<	<	1.0	12	24	89	<	9	18	952	24	33	1	1	0.01	0.60
5+00N	7+50W		9600690	40	---	0.4	20	40	118	184	34	<	2	<	<	<	10	23	185	<	18	36	447	24	36	1	1	0.01	1.11
5+00N	8+00W		9600690	12	---	0.1	18	30	73	45	15	<	2	<	<	<	10	21	111	<	19	44	471	20	22	1	1	0.02	1.23
5+00N	8+50W		9600690	55	---	0.1	16	23	58	29	10	<	1	<	<	<	12	25	150	<	17	36	1540	25	17	1	2	0.02	1.10
5+00N	9+00W		9600690	43	---	0.2	24	22	68	57	7	<	2	<	<	<	15	34	172	<	22	44	1016	28	22	1	3	0.03	1.33
5+00N	9+50W		9600690	12	---	0.2	25	37	94	44	8	<	2	<	<	<	19	31	199	<	50	69	964	31	34	3	5	0.09	1.60
5+00N	10+00W		9600690	43	---	0.2	24	109	103	61	38	<	2	<	<	<	12	28	140	<	14	32	720	28	21	1	1	0.01	0.82
5+00N	10+50W		9600690	85	---	0.3	30	36	79	24	5	<	2	<	<	<	14	33	181	<	21	35	1186	31	31	3	5	0.02	1.42
5+00N	11+00W		9600690	30	---	0.2	26	33	94	12	<	<	1	<	<	<	16	32	107	<	14	20	1087	35	20	4	5	0.01	0.72
5+00N	11+50W		9600690	11	---	0.2	28	45	92	14	<	<	2	<	<	<	15	32	148	<	24	34	792	27	20	4	4	0.02	1.27
5+00N	12+00W		9600690	6	---	<	24	29	79	7	<	<	2	<	<	<	10	17	186	<	19	36	768	27	20	2	2	0.01	1.36
5+00N	12+50W		9600690	22	---	0.7	32	64	138	12	9	<	2	<	<	<	19	37	193	<	16	25	3424	36	40	5	6	0.01	0.98
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method				Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 5 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:39:69112796] | Certified BC Assayer: David Chiu

Sample Name			Ca %	Fe %	Mg %	K %	Na %	P %
2+00N	11+00W	S	0.13	3.65	0.34	0.06	0.02	0.05
2+00N	11+50W	S	0.14	3.47	0.21	0.08	0.02	0.09
2+00N	12+00W	S	0.26	3.03	0.27	0.08	0.02	0.11
2+00N	12+50W	S	0.24	3.62	0.26	0.13	0.02	0.11
3+00N	7+50W	S	0.10	2.65	0.17	0.07	0.02	0.07
3+00N	8+00W	S	0.22	3.26	0.23	0.09	0.02	0.07
3+00N	8+50W	S	0.04	2.96	0.12	0.06	0.02	0.07
3+00N	9+00W	S	0.05	3.52	0.12	0.04	0.02	0.07
3+00N	9+50W	S	0.25	4.05	0.16	0.07	0.02	0.14
3+00N	10+00W	S	0.26	4.34	0.19	0.10	0.02	0.13
3+00N	10+50W	S	0.31	5.29	0.54	0.17	0.02	0.10
3+00N	11+00W	S	0.07	4.91	0.22	0.09	0.02	0.08
3+00N	11+50W	S	0.28	5.24	0.31	0.08	0.02	0.09
3+00N	12+00W	S	0.25	4.08	0.12	0.12	0.02	0.10
3+00N	12+50W	S	0.07	4.21	0.11	0.10	0.02	0.06
3+00N	13+00W	S	0.45	6.13	0.23	0.07	0.02	0.11
3+00N	13+50W	S	0.51	5.22	0.21	0.08	0.02	0.11
4+00N	8+00W	S	0.05	2.87	0.21	0.07	0.02	0.08
4+00N	8+50W	S	0.06	3.69	0.24	0.08	0.02	0.10
4+00N	9+00W	S	0.38	3.89	0.39	0.08	0.02	0.11
4+00N	9+50W	S	0.15	3.89	0.37	0.06	0.02	0.06
4+00N	10+00W	S	0.69	5.91	0.88	0.11	0.03	0.12
4+00N	10+50W	S	0.08	4.10	0.18	0.09	0.03	0.12
4+00N	11+00W	S	0.40	3.83	0.19	0.09	0.02	0.11
4+00N	11+50W	S	0.36	3.18	0.29	0.06	0.02	0.10
4+00N	12+00W	S	0.27	4.16	0.29	0.09	0.02	0.09
4+00N	12+50W	S	0.50	5.42	0.21	0.08	0.02	0.11
4+00N	13+00W	S	0.15	3.29	0.09	0.07	0.02	0.07
5+00N	7+50W	S	0.14	3.03	0.21	0.10	0.02	0.07
5+00N	8+00W	S	0.10	2.78	0.27	0.09	0.02	0.06
5+00N	8+50W	S	0.22	2.92	0.22	0.05	0.02	0.09
5+00N	9+00W	S	0.26	3.88	0.37	0.08	0.02	0.08
5+00N	9+50W	S	0.28	4.32	0.85	0.11	0.02	0.09
5+00N	10+00W	S	0.13	4.02	0.17	0.07	0.02	0.10
5+00N	10+50W	S	0.44	4.55	0.33	0.08	0.02	0.12
5+00N	11+00W	S	0.28	3.56	0.24	0.06	0.02	0.07
5+00N	11+50W	S	0.28	3.59	0.37	0.07	0.02	0.08
5+00N	12+00W	S	0.35	3.20	0.19	0.07	0.02	0.12
5+00N	12+50W	S	0.63	5.75	0.24	0.06	0.02	0.12
Min Limit			0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*			9.99	9.99	9.99	9.99	5.00	5.00
Method			ICP	ICP	ICP	ICP	ICP	ICP

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iPL: 96K1221

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Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
CL1	0+00S		9600690	74	--	0.2	23	35	120	94	67	<	2	<	<	<	15	34	125	<	9	13	961	39	20	2	2	<	0.66
CL1	1+00S		9600690	4	--	0.1	19	18	52	30	5	<	3	<	<	<	10	20	98	<	16	45	936	21	10	<	1	0.02	0.94
CL1	2+00S		9600690	17	--	0.9	22	193	236	225	114	<	1	<	<	0.3	12	24	150	<	23	36	804	28	24	1	2	0.02	0.96
CL1	3+00S		9600690	5	--	0.3	27	74	176	45	11	<	3	<	<	<	16	30	128	<	30	56	1163	21	13	2	2	0.03	1.75
CL1	4+00S		9600690	12	--	1.9	39	76	161	108	30	<	1	<	<	<	23	36	237	<	39	58	1754	36	38	3	8	0.09	1.23
CL1	5+00S		9600690	48	--	5.2	38	197	199	375	74	<	1	<	<	<	19	34	177	<	18	31	1484	34	35	1	4	0.03	0.89
CL1	6+00S		9600690	68	--	5.5	34	520	237	426	195	<	1	<	<	0.3	13	24	106	<	12	23	807	32	28	1	2	0.01	0.76
CL1	7+00S		9600690	10	--	0.4	25	70	117	132	21	<	2	<	<	<	12	23	137	<	23	35	881	23	19	<	1	0.01	1.04
CL1	8+00S		9600690	13	--	0.4	26	141	142	293	60	<	1	<	<	<	10	19	100	<	18	40	835	21	20	1	1	0.01	0.80
CL1	9+00S		9600690	20	--	0.3	30	50	77	15	8	<	1	<	<	<	21	35	126	<	17	24	1383	34	25	4	4	0.01	0.99
CL3	0+00S		9600690	2	--	0.3	39	42	94	109	<	<	2	<	<	<	11	26	107	<	19	25	567	27	45	3	2	0.02	1.21
CL3	1+00S		9600690	24	--	0.7	37	207	95	335	110	<	1	<	<	<	11	27	144	<	21	34	632	25	30	2	3	0.02	1.29
CL3	2+00S		9600690	4	--	0.2	27	36	91	24	5	<	2	<	<	<	13	31	142	<	26	40	521	25	25	2	3	0.03	1.46
CL3	3+00S		9600690	80	--	2.9	36	473	299	175	318	<	1	<	<	1.7	14	31	72	<	10	15	889	35	26	1	2	0.01	0.53
CL3	4+00S		9600690	7	--	0.1	20	35	76	22	7	<	1	<	<	<	16	24	80	<	23	40	580	18	11	1	1	0.02	1.36
CL3	5+00S		9600690	8	--	0.3	30	88	144	49	8	<	1	<	<	<	16	35	119	<	23	35	835	24	30	1	3	0.02	1.42
CL3	6+00S		9600690	8	--	0.6	22	85	93	43	45	<	2	<	<	<	9	26	89	<	18	25	413	20	23	1	1	0.01	1.21
CL3	7+00S		9600690	10	--	0.1	24	75	155	99	29	<	2	<	<	<	10	24	109	<	21	35	518	25	19	1	2	0.01	1.43
CL3	8+00S		9600690	7	--	0.2	23	57	101	164	6	<	2	<	<	<	16	23	104	<	20	37	805	20	41	1	1	0.02	1.22
CL3	9+00S		9600690	9	--	0.2	20	39	102	169	9	<	1	<	<	<	8	22	111	<	19	31	256	23	33	1	2	0.02	1.18
CL3	10+00S		9600690	2	--	0.2	25	37	85	29	5	<	2	<	<	<	11	28	147	<	20	28	470	31	36	2	3	0.01	1.25
CL4	0+00W		9600690	4	--	0.2	39	65	130	68	<	<	2	<	<	<	19	42	190	<	32	47	1079	37	36	2	4	0.02	2.10
CL4	1+00W		9600690	4	--	2.0	19	13	54	9	10	<	1	<	<	<	3	10	78	<	5	6	226	4	188	2	<	0.01	0.41
CL4	2+00W		9600690	2	--	0.2	19	40	79	21	5	<	2	<	<	<	12	23	109	<	18	34	371	18	22	1	2	0.02	1.18
CL4	3+00W		9600690	10	--	0.6	36	58	118	28	15	<	2	<	<	<	9	32	123	<	10	12	251	17	112	4	1	<	0.97
CL4	4+00W		9600690	38	--	1.0	43	141	184	85	78	<	2	<	<	<	16	43	63	<	11	9	435	34	32	3	2	<	0.56
CL4	5+00W		9600690	61	--	1.9	49	275	342	212	162	<	2	<	<	1.3	22	52	92	<	14	12	741	34	44	4	3	<	0.48
CL4	6+00W		9600690	24	--	0.9	42	173	267	140	83	<	2	<	<	<	25	44	103	<	13	17	889	35	35	2	2	0.01	0.83
CL4	7+00W		9600690	33	--	1.1	46	160	291	105	79	<	2	<	<	<	23	50	102	<	17	15	811	40	44	6	3	0.01	0.67
CL4	8+00W		9600690	28	--	0.9	33	81	215	90	46	<	2	<	<	<	10	29	91	<	10	14	318	42	33	2	3	<	0.72
CL4	9+00W		9600690	8	--	0.3	31	49	97	60	16	<	2	<	<	<	16	24	117	<	17	26	562	30	37	1	2	0.01	1.08
CL4	10+00W		9600690	47	--	1.1	43	148	206	163	58	<	2	<	<	<	19	37	112	<	11	15	634	37	64	4	3	0.01	0.67
CL4	11+00W		9600690	76	--	1.3	44	125	245	452	55	<	2	<	<	<	26	43	117	<	10	10	884	41	54	3	3	<	0.59
CL4	12+00W		9600690	2	--	0.2	47	68	134	10	<	<	1	<	<	<	31	42	146	<	13	13	953	35	26	5	3	<	0.80
CL4	13+00W		9600690	20	--	0.4	35	67	113	145	16	<	1	<	<	<	17	27	97	<	12	15	422	38	25	1	2	0.01	0.80
CL4	14+00W		9600690	2	--	0.2	48	67	142	<	<	<	1	<	<	<	31	43	109	<	8	8	541	29	40	4	3	<	0.47
CL4	15+00W		9600690	<	--	0.2	44	64	113	<	<	<	1	<	<	<	27	34	191	<	14	15	716	21	49	5	2	0.01	0.91
CL4	16+00W		9600690	<	--	0.3	46	77	136	<	<	<	1	<	<	<	25	33	158	<	13	15	889	26	44	4	3	0.01	0.87
CL6	0+00S		9600690	11	--	0.5	34	49	135	33	26	<	3	<	<	<	18	44	91	<	18	30	945	31	17	1	3	0.02	0.99
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method				Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 96K1221

2036 Columbia Street
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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 6 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:40:69112796] | Certified BC Assayer: David Chiu

Sample Name			Ca %	Fe %	Mg %	K %	Na %	P %
CL1	0+00S	S	0.26	3.95	0.10	0.05	0.02	0.08
CL1	1+00S	S	0.07	2.98	0.16	0.04	0.02	0.08
CL1	2+00S	S	0.13	3.37	0.25	0.06	0.02	0.07
CL1	3+00S	S	0.11	4.11	0.46	0.08	0.02	0.08
CL1	4+00S	S	0.45	5.18	0.74	0.13	0.02	0.11
CL1	5+00S	S	0.26	4.35	0.32	0.09	0.02	0.08
CL1	6+00S	S	0.04	3.57	0.16	0.09	0.02	0.07
CL1	7+00S	S	0.20	3.67	0.24	0.08	0.02	0.09
CL1	8+00S	S	0.22	3.74	0.10	0.08	0.02	0.11
CL1	9+00S	S	0.35	4.55	0.29	0.09	0.02	0.08
CL3	0+00S	S	1.15	3.09	0.35	0.10	0.02	0.10
CL3	1+00S	S	0.38	3.99	0.36	0.09	0.02	0.07
CL3	2+00S	S	0.31	3.05	0.52	0.09	0.02	0.06
CL3	3+00S	S	0.13	3.82	0.14	0.06	0.02	0.05
CL3	4+00S	S	0.10	3.01	0.40	0.06	0.02	0.08
CL3	5+00S	S	0.39	3.41	0.44	0.08	0.02	0.08
CL3	6+00S	S	0.21	2.85	0.33	0.06	0.02	0.08
CL3	7+00S	S	0.18	3.59	0.28	0.06	0.02	0.07
CL3	8+00S	S	0.56	3.31	0.34	0.10	0.02	0.11
CL3	9+00S	S	0.44	2.59	0.35	0.06	0.02	0.07
CL3	10+00S	S	0.48	3.36	0.37	0.07	0.02	0.08
CL4	0+00W	S	0.30	4.62	0.55	0.16	0.02	0.11
CL4	1+00W	S	4.14	0.63	0.06	0.03	0.02	0.10
CL4	2+00W	S	0.25	3.38	0.29	0.07	0.02	0.05
CL4	3+00W	S	1.74	3.34	0.20	0.09	0.02	0.09
CL4	4+00W	S	0.30	4.32	0.15	0.08	0.02	0.05
CL4	5+00W	S	0.38	4.94	0.17	0.09	0.02	0.06
CL4	6+00W	S	0.25	4.23	0.22	0.11	0.02	0.07
CL4	7+00W	S	0.29	4.71	0.23	0.12	0.03	0.06
CL4	8+00W	S	0.31	3.75	0.14	0.11	0.02	0.07
CL4	9+00W	S	0.43	3.24	0.22	0.12	0.03	0.09
CL4	10+00W	S	0.80	3.80	0.19	0.13	0.02	0.08
CL4	11+00W	S	0.38	4.29	0.18	0.14	0.02	0.07
CL4	12+00W	S	0.54	4.22	0.24	0.13	0.02	0.08
CL4	13+00W	S	0.31	3.22	0.23	0.12	0.02	0.07
CL4	14+00W	S	0.33	3.65	0.16	0.12	0.02	0.06
CL4	15+00W	S	0.60	3.77	0.26	0.14	0.02	0.09
CL4	16+00W	S	0.54	4.47	0.24	0.15	0.02	0.09
CL6	0+00S	S	0.14	3.97	0.26	0.05	0.02	0.06
Min Limit			0.01	0.01	0.01	0.01	0.01	0.01
Ma.: Reported*			9.99	9.99	9.99	9.99	5.00	5.00
Method			ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 27, 1996
In: Nov 26, 1996

[122111:38:41:69112796]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
CL6	1+00S	$	9600690	11	--	0.1	22	32	122	61	13	<	1	<	<	<	12	25	76	<	19	37	640	27	16	1	1	0.02	1.34
CL6	2+00S	$	9600690	25	--	1.2	26	132	562	114	99	<	2	<	<	1.8	13	29	184	<	38	41	711	32	24	1	2	0.02	1.39
CL6	3+00S	$	9600690	7	--	0.4	26	88	159	48	33	<	2	<	<	<	15	26	141	<	26	46	842	29	26	1	1	0.02	1.55
CL6	4+00S	$	9600690	46	--	1.9	39	242	391	103	104	<	2	<	<	1.4	22	43	90	<	15	18	1070	47	29	2	4	0.01	0.90
CL6	5+00S	$	9600690	57	--	5.7	41	718	651	208	364	<	2	<	<	2.4	22	46	150	<	32	29	1002	41	37	2	5	0.03	1.04
CL6	6+00S	$	9600690	27	--	0.9	41	163	368	195	81	<	2	<	<	1.1	25	45	103	<	25	22	875	46	30	3	4	0.01	1.25
CL6	6+50S	$	9600690	140	--	3.8	58	700	1258	1059	400	<	1	<	<	17.5	32	53	195	<	35	28	1291	36	68	10	4	0.03	0.87
CL6	7+00S	$	9600690	36	--	0.7	46	93	200	284	134	<	2	<	<	<	27	49	119	<	15	19	1154	41	50	4	4	0.01	0.84
CL6	8+30S	$	9600690	93	--	3.8	42	409	713	299	303	<	2	<	<	7.0	23	48	125	<	4	7	1641	34	76	8	4	<	0.42
CL7	0+00S	$	9600690	18	--	0.8	37	106	190	298	17	<	2	<	<	<	15	31	88	<	18	29	965	43	31	1	1	0.01	1.09
CL7	1+00S	$	9600690	85	--	2.9	25	1338	352	963	789	<	2	<	<	5.7	9	21	92	<	12	24	732	33	46	1	2	0.01	0.89
CL7	1+75S	$	9600690	56	--	4.9	41	1103	590	349	521	<	2	<	<	6.0	16	35	91	<	8	12	867	55	53	2	3	<	0.57
CL7	2+00S	$	9600690	8	--	0.6	26	65	147	37	23	<	2	<	<	<	12	26	121	<	17	31	559	31	34	1	1	0.01	0.89
CL7	3+00S	$	9600690	11	--	0.2	28	55	128	41	10	<	2	<	<	<	13	31	73	<	21	30	467	34	17	1	1	0.01	1.17
CL7	4+00S	$	9600690	41	--	1.7	38	107	299	528	42	<	2	<	<	<	17	38	140	<	30	28	832	39	33	1	3	0.02	0.90
CL7	5+00S	$	9600690	67	--	3.4	56	270	608	347	103	<	3	<	<	3.7	31	54	725	<	100	76	1284	48	64	10	7	0.16	1.59
CL7	6+00S	$	9600690	52	--	1.8	40	215	526	355	164	<	2	<	<	3.2	15	32	77	<	6	9	665	41	52	3	3	<	0.40
CL7	6+50S	$	9600690	23	--	1.6	39	179	220	71	65	<	2	<	<	<	17	34	127	<	9	13	1003	52	44	3	4	0.01	0.60
CL7	7+00S	$	9600690	36	--	1.8	44	383	613	284	148	<	1	<	<	5.6	28	50	238	<	34	29	1264	48	51	12	6	0.04	0.67
CL7	8+00S	$	9600690	22	--	1.2	45	362	384	347	189	<	1	<	<	2.0	27	51	193	<	19	19	1058	46	65	10	5	0.01	0.67
CL7	9+00S	$	9600690	32	--	1.4	54	236	329	296	77	<	2	<	<	1.3	31	59	161	<	12	13	1567	43	58	7	5	<	0.54
CL7	10+00S	$	9600690	37	--	1.2	65	102	118	115	25	<	2	<	<	<	39	64	113	<	6	11	1649	41	30	5	6	<	0.46
CL7	11+00S	$	9600690	12	--	0.9	63	109	131	53	15	<	3	<	<	<	28	67	123	<	7	13	1128	26	33	4	6	<	0.44
CL7	12+00S	$	9600690	14	--	2.2	47	133	155	33	23	<	2	<	<	<	17	40	90	<	4	8	602	15	38	3	4	<	0.42
CL7	13+00S	$	9600690	13	--	0.2	46	57	109	15	8	<	1	<	<	<	28	50	89	<	9	13	761	12	30	6	5	<	0.55
CL7	14+00S	$	9600690	8	--	0.3	35	49	111	68	8	<	2	<	<	<	19	40	97	<	6	8	558	21	24	4	4	<	0.42
CL8	0+00S	$	9600690	4	--	0.2	19	26	66	6	<	<	1	<	<	<	11	22	168	<	15	23	972	20	35	3	3	0.01	0.98
CL8	1+00S	$	9600690	5	--	0.6	22	35	89	26	<	<	2	<	<	<	10	25	158	<	18	29	778	23	20	2	3	0.01	1.13
CL8	2+00S	$	9600690	7	--	0.1	22	40	100	17	<	<	1	<	<	<	16	30	158	<	21	35	1395	25	19	1	3	0.02	1.40
CL8	3+00S	$	9600690	18	--	0.9	25	59	96	43	7	<	2	<	<	<	15	28	135	<	17	31	1534	18	21	1	3	0.01	1.11
CL8	4+00S	$	9600690	2	--	0.2	54	51	119	34	5	<	2	<	<	<	25	39	206	<	19	26	1592	14	26	1	5	0.01	1.03
CL8	5+00S	$	9600690	54	--	1.5	39	177	149	318	33	<	1	<	<	<	7	12	88	<	10	19	922	22	26	1	2	0.01	0.75
CL8	6+00S	$	9600690	8	--	<	23	36	66	14	<	<	2	<	<	<	10	19	97	<	30	57	838	10	13	1	1	0.02	1.90
CL8	7+00S	$	9600690	22	--	<	25	25	65	15	<	<	2	<	<	<	12	20	123	<	31	59	780	12	13	1	1	0.03	1.83
CL8	8+00S	$	9600690	<	--	<	17	25	61	25	<	<	2	<	<	<	9	19	186	<	26	51	530	15	18	1	1	0.02	1.79
CL8	9+00S	$	9600690	2	--	<	24	21	62	13	<	<	2	<	<	<	10	23	112	<	28	40	361	24	13	1	1	0.03	1.41
CL8	10+00S	$	9600690	10	--	4.3	33	404	287	140	99	<	2	<	<	0.1	18	35	138	<	18	23	1599	26	32	2	4	0.01	0.81
CL8	12+00S	$	9600690	3	--	0.2	55	74	126	<	<	<	2	<	<	<	31	42	146	<	16	16	1263	18	20	6	4	<	0.94
CL8	13+00S	$	9600690	6	--	0.2	65	61	126	<	<	<	2	<	<	<	34	45	161	<	16	16	977	14	21	8	4	<	0.93
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method					Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 96K1221

2036 Columbia Street
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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 7 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:41:69112796] | Certified BC Assayer: David Chiu

Sample Name			Ca %	Fe %	Mg %	K %	Na %	P %
CL6	1+00S	$	0.07	3.44	0.22	0.07	0.02	0.06
CL6	2+00S	$	0.16	3.94	0.35	0.11	0.02	0.07
CL6	3+00S	$	0.26	3.85	0.31	0.13	0.02	0.10
CL6	4+00S	$	0.21	4.35	0.29	0.11	0.02	0.07
CL6	5+00S	$	0.35	4.70	0.46	0.12	0.02	0.08
CL6	6+00S	$	0.25	4.52	0.49	0.09	0.02	0.08
CL6	6+50S	$	0.21	5.46	0.47	0.17	0.03	0.08
CL6	7+00S	$	0.27	5.33	0.19	0.10	0.03	0.09
CL6	8+30S	$	0.14	5.27	0.04	0.16	0.03	0.06
CL7	0+00S	$	0.11	4.40	0.21	0.09	0.02	0.08
CL7	1+00S	$	0.12	3.61	0.13	0.10	0.02	0.06
CL7	1+75S	$	0.14	4.43	0.10	0.14	0.02	0.06
CL7	2+00S	$	0.24	3.46	0.15	0.10	0.02	0.10
CL7	3+00S	$	0.07	3.51	0.29	0.09	0.02	0.05
CL7	4+00S	$	0.13	4.40	0.32	0.10	0.02	0.06
CL7	5+00S	$	0.55	5.46	1.49	0.38	0.02	0.11
CL7	6+00S	$	0.22	4.00	0.08	0.10	0.02	0.05
CL7	6+50S	$	0.33	4.36	0.12	0.13	0.02	0.08
CL7	7+00S	$	0.34	4.52	0.45	0.15	0.02	0.08
CL7	8+00S	$	0.29	4.61	0.35	0.13	0.02	0.07
CL7	9+00S	$	0.18	5.01	0.18	0.12	0.02	0.07
CL7	10+00S	$	0.23	5.19	0.10	0.08	0.02	0.07
CL7	11+00S	$	0.30	4.78	0.11	0.10	0.02	0.08
CL7	12+00S	$	0.58	4.45	0.07	0.07	0.02	0.07
CL7	13+00S	$	0.14	4.93	0.13	0.08	0.02	0.06
CL7	14+00S	$	0.29	3.71	0.10	0.08	0.02	0.06
CL8	0+00S	$	0.88	3.30	0.22	0.09	0.02	0.10
CL8	1+00S	$	0.26	3.32	0.25	0.08	0.02	0.08
CL8	2+00S	$	0.26	3.73	0.36	0.09	0.02	0.09
CL8	3+00S	$	0.18	4.20	0.24	0.10	0.02	0.10
CL8	4+00S	$	0.10	4.81	0.32	0.07	0.02	0.05
CL8	5+00S	$	0.03	3.17	0.10	0.11	0.02	0.05
CL8	6+00S	$	0.10	3.89	0.37	0.07	0.02	0.08
CL8	7+00S	$	0.11	3.52	0.39	0.07	0.02	0.09
CL8	8+00S	$	0.23	2.96	0.35	0.07	0.02	0.08
CL8	9+00S	$	0.12	2.77	0.40	0.06	0.02	0.06
CL8	10+00S	$	0.22	4.12	0.21	0.07	0.02	0.06
CL8	12+00S	$	0.15	4.76	0.36	0.08	0.02	0.05
CL8	13+00S	$	0.13	5.11	0.39	0.08	0.02	0.04
Min Limit			0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*			9.99	9.99	9.99	9.99	5.00	5.00
Method			ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Client: Homestake Canada Inc — iPL: 96K1221 — Out: Nov 27, 1996 — — Section 1 of 2
Project: Heidi 462 Pulp — In: Nov 26, 1996 — [122111:38:42:69112796] — Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
CL8	14+00S	S	9600690	14	--	0.1	65	46	103	<	<	<	1	<	<	<	25	38	245	<	20	21	1232	7	12	3	4	0.01	1.16
CL8	15+00S	S	9600690	<	--	0.1	49	45	112	<	<	<	1	<	<	<	28	40	138	<	14	14	885	25	24	9	4	<	0.79
CL8	17+00S	S	9600690	4	--	0.2	47	97	351	<	<	<	2	<	<	<	34	43	155	<	13	15	1017	13	20	9	4	<	0.69
CL8	18+00S	S	9600690	42	--	0.2	79	192	668	<	<	<	1	<	<	<	34	44	108	<	12	13	767	13	24	9	4	<	0.62
CL8	19+00S	S	9600690	4	--	0.1	90	76	93	<	<	<	2	<	<	<	29	46	229	<	14	16	977	9	23	8	5	<	0.72
CL8	20+00S	S	9600690	2	--	0.1	92	123	113	<	<	<	2	<	<	<	36	51	328	<	13	17	1283	7	28	7	4	<	0.56
1524		R	9600690	800	--	1.2	37	177	3	1.8%	145	<	4	<	37	<	7	8	8	<	135	<	40	3	3	5	<	<	0.11
00038		R	9600690	10	--	0.3	61	17	24	303	7	<	4	<	<	<	15	40	67	<	61	8	117	5	20	11	1	<	0.94
00039		R	9600690	940	--	77.7	100	4312	172	1880	3942	<	3	<	<	23.4	2	10	39	<	180	2	99	9	24	6	1	<	0.21
00040		R	9600690	367	--	2.5	42	142	483	9977	264	<	10	<	2	9.3	1	9	62	<	215	3	33	8	11	5	1	<	0.20
00041		R	9600690	7	--	24.5	3562	3.3%	56	105	90	<	3	<	4	0.6	2	8	<	<	159	<	21	<	53	3	<	<	0.10
00042		R	9600690	12	--	0.3	42	1169	46	306	19	<	6	<	<	<	3	12	44	<	128	2	83	14	14	6	1	<	0.27
00043		R	9600690	70	--	0.2	30	684	76	523	16	<	3	<	<	2.1	6	17	65	<	155	3	198	12	13	5	1	<	0.27
00044		R	9600690	12	--	0.3	10	87	67	85	11	<	8	<	<	<	1	6	32	<	173	2	68	11	12	5	1	<	0.20
00045		R	9600690	3	--	0.6	14	104	57	64	14	<	3	<	<	0.2	2	7	64	<	141	2	252	8	6	4	1	<	0.15
00046		R	9600690	14	--	2.0	2.2%	61	103	144	7	<	7	<	6	<	50	142	25	7	137	2	219	<	27	6	1	<	0.11
00047		R	9600690	<	--	0.1	68	38	57	<	<	<	4	<	<	<	12	14	71	<	49	16	708	24	306	8	9	<	0.34
00048		R	9600690	6	--	0.4	44	244	643	106	124	<	8	<	<	5.8	3	10	30	<	167	2	381	10	8	4	1	<	0.18
00049		R	9600690	17	--	1.2	21	326	644	394	141	<	3	<	<	18.4	2	7	64	<	123	3	130	12	12	4	1	<	0.20
00050		R	9600690	37	--	8.3	13	2073	39	3649	1032	<	6	<	<	0.1	1	5	94	<	139	2	45	9	15	5	<	<	0.13
1092		R	9600721	4	--	0.2	6	<	72	58	8	<	7	<	<	0.3	4	12	62	<	153	3	729	8	35	7	1	<	0.20
1093		R	9600721	6	--	<	21	12	73	19	8	<	4	<	<	<	27	16	795	<	256	154	1004	30	257	11	15	0.29	2.52
1131		R	9600721	<	--	<	77	69	65	16	5	<	7	<	<	0.1	11	13	402	<	158	12	4174	2	13	5	1	<	0.53
2926		R	9600721	3	--	<	8	5	10	5	<	<	4	<	<	<	4	9	36	<	146	6	497	6	62	6	1	<	0.39
2927		R	9600721	15	--	23.5	186	11529	7549	54	186	11	7	<	<	18.4	5	8	64	<	167	3	149	19	13	6	1	<	0.27
2928		R	9600721	<	--	0.1	9	58	44	6	8	<	4	<	2	0.1	4	11	58	<	192	3	508	9	7	10	1	<	0.26
2930		R	9600721	3	--	0.1	9	35	30	9	13	<	8	<	<	0.3	4	10	56	<	164	3	420	13	62	10	1	<	0.22
2938		R	9600721	2	--	0.1	9	33	54	5	<	<	4	<	<	<	6	15	96	<	149	7	1281	21	12	6	2	<	0.64
2953		R	9600721	7	--	0.2	66	20	65	231	15	<	5	<	<	0.2	9	23	49	<	147	3	779	10	51	7	1	<	0.25
1094		S	9600721	5	--	<	41	32	92	16	<	<	2	<	<	<	17	29	132	<	23	26	1513	18	22	2	3	0.01	1.53
1095		S	9600721	3	--	0.1	37	36	83	20	<	<	1	<	<	<	18	35	150	<	19	22	1653	17	24	2	4	0.01	1.13
1096		S	9600721	8	--	0.1	26	28	77	20	<	<	2	<	<	<	13	27	146	<	21	35	1517	17	22	1	3	0.02	1.28
1097		S	9600721	<	--	<	26	29	112	11	<	<	2	<	<	<	10	24	145	<	27	39	744	15	16	1	1	0.01	1.42
1098		S	9600721	<	--	0.2	16	13	56	5	<	<	2	<	<	0.4	5	14	88	<	13	8	448	5	67	3	1	0.01	0.34
1099		S	9600721	3	--	0.1	14	21	136	12	<	<	3	<	<	0.5	7	17	198	<	21	36	833	15	17	<	<	0.01	1.04
1100		S	9600721	6	--	<	19	20	74	22	<	<	2	<	<	<	14	23	89	<	29	48	726	13	11	1	2	0.04	1.85
1101		S	9600721	<	--	<	22	19	63	14	<	<	2	<	<	0.3	11	22	133	<	15	28	688	14	27	1	2	0.02	0.87
1102		S	9600721	<	--	<	16	25	75	18	<	<	2	<	<	0.2	11	20	172	<	22	42	605	16	19	1	2	0.02	1.47
1103		S	9600721	<	--	0.1	20	20	65	16	<	<	2	<	<	<	10	25	155	<	22	35	570	15	13	1	2	0.01	1.50
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method				Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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iPL 96K1221

Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 8 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:42:69112796] | Certified BC Assayer: David Chiu

Sample Name			Ca %	Fe %	Mg %	K %	Na %	P %
CL8	14+00S	S	0.07	4.10	0.65	0.07	0.02	0.04
CL8	15+00S	S	0.14	4.29	0.31	0.10	0.02	0.04
CL8	17+00S	S	0.13	4.61	0.29	0.09	0.02	0.04
CL8	18+00S	S	0.13	4.59	0.24	0.09	0.02	0.05
CL8	19+00S	S	0.20	4.70	0.35	0.07	0.01	0.05
CL8	20+00S	S	0.17	4.65	0.32	0.07	0.01	0.04
1524		R	0.02	3.69	0.01	0.10	0.01	0.01
00038		R	0.36	3.18	0.26	0.23	0.03	0.02
00039		R	0.05	1.35	0.02	0.15	0.02	0.01
00040		R	0.01	2.89	0.01	0.14	0.01	0.01
00041		R	0.01	0.73	0.01	0.04	0.02	0.02
00042		R	0.02	1.24	0.01	0.15	0.03	0.02
00043		R	0.07	1.22	0.01	0.19	0.03	0.01
00044		R	0.07	0.79	0.01	0.15	0.04	0.01
00045		R	0.01	0.78	0.01	0.11	0.02	0.01
00046		R	1.07	3.63	0.01	0.07	0.02	0.07
00047		R	4.10	3.44	1.31	0.17	0.02	0.10
00048		R	0.23	1.15	0.01	0.11	0.01	0.01
00049		R	0.03	2.63	0.01	0.13	0.02	0.01
00050		R	0.01	2.15	0.01	0.31	0.02	0.01
1092		R	1.45	1.25	0.07	0.13	0.01	0.01
1093		R	5.13	4.52	2.95	1.16	0.11	0.23
1131		R	0.04	1.70	0.20	0.04	0.02	0.01
2926		R	1.23	1.08	0.13	0.09	0.04	0.01
2927		R	0.05	1.28	0.02	0.16	0.02	0.03
2928		R	0.26	1.40	0.03	0.12	0.02	0.01
2930		R	2.47	1.04	0.02	0.12	0.03	0.03
2938		R	0.43	1.63	0.22	0.12	0.03	0.02
2953		R	1.64	3.30	0.06	0.09	0.01	0.03
1094		S	0.25	3.96	0.46	0.08	0.01	0.10
1095		S	0.27	3.98	0.35	0.09	0.01	0.07
1096		S	0.26	3.31	0.35	0.09	0.02	0.10
1097		S	0.25	3.50	0.32	0.10	0.01	0.10
1098		S	2.41	1.07	0.09	0.06	0.02	0.11
1099		S	0.27	2.33	0.19	0.08	0.01	0.10
1100		S	0.10	3.53	0.44	0.07	0.01	0.07
1101		S	0.51	2.77	0.23	0.05	0.01	0.06
1102		S	0.27	2.93	0.34	0.08	0.01	0.06
1103		S	0.22	3.17	0.35	0.06	0.01	0.05
Min Limit			0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*			9.99	9.99	9.99	9.99	5.00	5.00
Method			ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Client: Homestake Canada Inc — iPL: 96K1221 — Out: Nov 27, 1996 — Page 9 of 12 — Section 1 of 2
Project: Heidi 462 Pulp — In: Nov 26, 1996 — [122111:38:43:69112796] — Certified BC Assayer: David Chiu

Sample Name	iPL Job	Au ppb	Au g/mt	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 %
1104	9600721	5	—	0.1	19	25	58	6	<	<	1	<	<	0.3	8	19	140	<	13	16	422	15	35	4	2	0.01	1.02
1105	9600721	6	—	<	31	11	60	16	<	<	2	<	<	0.2	9	20	731	<	27	45	616	13	20	1	2	0.01	1.60
1109	9600721	<	—	<	9	8	37	12	<	<	1	<	<	0.1	4	11	94	<	16	45	193	13	13	<	1	0.02	0.86
1110	9600721	<	—	0.1	37	26	96	19	<	<	2	<	<	<	20	29	375	<	25	45	1899	21	17	1	3	0.02	1.62
1111	9600721	30	—	<	13	22	53	19	<	<	3	<	<	0.2	8	16	141	<	18	45	470	15	16	1	1	0.02	1.11
1112	9600721	4	—	<	14	14	42	22	<	<	2	<	<	0.1	10	18	120	<	23	46	298	14	9	3	3	0.03	1.76
1113	9600721	4	—	<	30	18	65	20	<	<	1	<	<	0.2	9	22	157	<	22	40	268	15	13	1	2	0.03	1.31
1114	9600721	3	—	0.1	29	33	88	26	5	<	2	<	<	<	19	29	217	<	30	47	1072	18	17	1	3	0.02	1.62
1115	9600721	5	—	<	13	19	37	15	<	<	2	<	<	<	5	13	69	<	20	38	213	13	8	<	1	0.02	1.05
1116	9600721	3	—	<	18	11	46	20	<	<	1	<	<	<	6	15	82	<	22	38	183	13	10	<	1	0.02	1.27
1117	9600721	<	—	<	22	22	49	16	<	<	2	<	<	0.2	9	18	114	<	22	45	426	12	10	1	2	0.03	1.31
1118	9600721	8	—	<	66	36	96	15	7	<	2	<	<	<	20	27	145	<	18	24	1112	10	21	1	2	0.01	1.09
1119	9600721	26	—	<	31	31	84	10	<	<	1	<	<	<	19	27	122	<	24	34	1027	12	17	1	2	0.02	1.28
1120	9600721	16	—	0.1	19	21	54	15	<	<	2	<	<	<	10	15	119	<	22	41	606	9	14	<	1	0.03	1.26
1121	9600721	<	—	<	48	21	68	20	<	<	2	<	<	<	16	23	437	<	22	33	1154	8	24	1	2	0.01	1.46
1122	9600721	<	—	<	22	17	64	22	<	<	3	<	<	<	11	20	90	<	26	50	571	11	9	1	1	0.02	1.65
1123	9600721	5	—	<	10	12	37	22	<	<	1	<	<	0.2	7	14	63	<	21	44	240	9	7	1	2	0.03	1.46
1124	9600721	3	—	0.1	18	19	59	12	<	<	2	<	<	0.3	8	15	125	<	22	46	559	8	13	<	1	0.02	1.13
1125	9600721	<	—	0.1	21	14	58	8	<	<	1	<	<	<	10	16	87	<	18	30	623	9	10	<	1	0.02	0.90
1126	9600721	<	—	0.1	22	15	58	16	<	<	3	<	<	0.4	8	19	356	<	26	44	466	9	12	1	1	0.02	1.26
1127	9600721	3	—	0.1	23	20	59	25	<	<	2	<	<	0.3	7	18	133	<	25	44	312	10	12	<	1	0.02	1.62
1128	9600721	3	—	0.1	23	19	72	12	<	<	1	<	<	<	10	21	110	<	23	37	558	9	12	<	1	0.02	1.28
1129	9600721	2	—	<	24	34	93	12	<	<	3	<	<	<	13	23	111	<	25	45	872	11	12	<	1	0.02	1.27
1130	9600721	8	—	<	38	18	71	17	<	<	2	<	<	0.2	13	28	129	<	26	43	680	11	12	1	2	0.03	1.56
2929	9600721	6	—	0.3	31	33	110	<	11	<	2	<	<	<	14	35	89	<	12	16	581	34	23	4	4	0.01	0.75
2931	9600721	2	—	<	24	20	70	43	5	<	2	<	<	<	9	23	68	<	23	38	444	26	8	1	1	0.02	1.37
2932	9600721	2	—	0.1	19	18	62	28	<	<	3	<	<	0.3	9	21	74	<	32	47	529	16	8	1	1	0.02	1.60
2933	9600721	<	—	0.3	19	107	80	34	28	<	1	<	<	0.5	12	21	155	<	19	22	1179	23	18	3	2	0.01	1.20
2934	9600721	2	—	0.2	34	48	96	7	5	<	2	<	<	<	15	41	98	<	8	11	702	34	35	3	3	<	0.64
2935	9600721	<	—	0.1	48	41	91	22	7	<	1	<	<	<	10	29	130	<	20	26	549	29	17	2	2	0.01	1.26
2936	9600721	3	—	0.1	18	32	67	16	<	<	1	<	<	<	10	23	135	<	19	32	640	19	25	1	2	0.02	1.28
2937 A	9600721	<	—	0.2	24	32	66	9	7	<	2	<	<	<	12	26	107	<	13	16	1068	22	30	4	3	0.01	0.88
2937 B	9600721	<	—	0.1	35	28	98	11	<	<	2	<	<	<	14	27	138	<	21	37	1158	13	11	1	2	0.01	1.23
2946	9600721	9	—	<	102	22	44	3092	26	<	3	<	<	<	33	83	211	<	23	26	716	32	47	3	3	0.01	1.78
2947	9600721	30	—	<	35	39	67	84	11	<	2	<	<	<	28	37	191	<	14	24	1907	51	19	2	2	0.01	1.51
2948	9600721	6	—	<	26	17	60	40	<	<	2	<	<	0.3	15	28	130	<	18	30	746	29	16	1	2	0.02	1.26
2949	9600721	3	—	<	34	24	76	21	<	<	2	<	<	<	18	24	107	<	23	33	988	27	10	1	1	0.01	1.79
2950	9600721	6	—	<	47	27	64	21	<	<	1	<	<	<	34	41	150	<	21	21	1035	34	11	3	2	0.01	1.65
2951	9600721	3	—	<	23	25	73	20	<	<	1	<	<	<	13	25	147	<	23	38	557	28	13	1	2	0.02	1.49
Min Limit	0	2	0.07	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
Max Reported*	9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method	Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 96K1221

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 9 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:44:69112796] | Certified BC Assayer: David Chiu

Sample Name		Ca %	Fe %	Mg %	K %	Na %	P %
1104	S	1.01	2.47	0.16	0.10	0.01	0.10
1105	S	0.31	2.97	0.36	0.07	0.01	0.13
1109	S	0.16	1.95	0.24	0.05	0.01	0.05
1110	S	0.26	4.32	0.37	0.07	0.01	0.09
1111	S	0.16	2.63	0.26	0.06	0.01	0.04
1112	S	0.07	2.62	0.35	0.05	0.01	0.03
1113	S	0.14	2.56	0.35	0.05	0.01	0.05
1114	S	0.14	4.44	0.40	0.09	0.01	0.07
1115	S	0.07	2.09	0.24	0.04	0.01	0.06
1116	S	0.11	2.15	0.36	0.03	0.01	0.05
1117	S	0.10	2.58	0.36	0.04	0.01	0.04
1118	S	0.10	4.05	0.29	0.06	0.01	0.06
1119	S	0.08	3.66	0.41	0.06	0.01	0.05
1120	S	0.10	3.19	0.35	0.05	0.01	0.06
1121	S	0.23	3.10	0.40	0.06	0.01	0.08
1122	S	0.07	3.16	0.39	0.05	0.01	0.06
1123	S	0.06	2.45	0.29	0.03	0.01	0.03
1124	S	0.07	2.82	0.27	0.06	0.01	0.08
1125	S	0.06	2.52	0.28	0.04	0.01	0.05
1126	S	0.08	2.55	0.33	0.06	0.01	0.07
1127	S	0.09	2.51	0.39	0.05	0.01	0.10
1128	S	0.07	3.03	0.35	0.05	0.01	0.07
1129	S	0.06	3.63	0.33	0.05	0.01	0.07
1130	S	0.13	2.98	0.50	0.05	0.01	0.08
2929	R	0.33	3.73	0.20	0.05	0.02	0.06
2931	R	0.09	3.25	0.39	0.05	0.01	0.06
2932	R	0.06	2.81	0.36	0.05	0.01	0.06
2933	R	0.35	2.74	0.26	0.05	0.02	0.09
2934	R	0.50	3.39	0.13	0.06	0.01	0.06
2935	R	0.23	3.22	0.31	0.06	0.01	0.08
2936	R	0.58	3.14	0.27	0.06	0.01	0.07
2937 A	R	0.77	3.41	0.25	0.07	0.01	0.07
2937 B	R	0.08	3.82	0.30	0.06	0.01	0.07
2946	R	0.05	8.03	0.31	0.18	0.02	0.08
2947	R	0.28	4.29	0.30	0.13	0.02	0.09
2948	R	0.27	2.98	0.34	0.07	0.01	0.07
2949	R	0.09	4.01	0.40	0.07	0.01	0.10
2950	R	0.10	3.36	0.61	0.05	0.01	0.03
2951	R	0.17	3.27	0.39	0.06	0.01	0.05
Min Limit		0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 10 of 12 | Section 1 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:44:69112796] | Certified BC Assayer: David Chiu

Sample Name		iPL Job	Au ppb	Au g/mt	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 %
2952		9600721	12	--	0.1	33	52	89	102	20	<	1	<	<	<	15	32	101	<	13	17	669	39	33	3	3	0.01	0.88
2954		9600721	8	--	0.1	35	63	95	246	31	<	2	<	<	<	16	33	103	<	11	14	828	43	32	3	3	0.01	0.80
2955		9600721	15	--	<	51	59	74	875	27	<	2	<	4	<	27	41	117	<	15	17	1772	55	50	4	4	0.01	1.21
2956		9600721	8	--	0.1	39	42	82	27	13	<	1	<	<	<	17	36	107	<	13	18	903	55	26	3	4	0.01	0.88
2957		9600721	<	--	<	19	36	68	24	12	<	2	<	<	0.6	10	22	170	<	18	30	849	22	24	1	2	0.01	1.20
2958		9600721	<	--	<	23	22	70	17	<	<	2	<	<	<	12	25	98	<	22	39	1137	19	10	1	2	0.02	1.44
2959		9600721	9	--	0.2	24	45	58	27	15	<	2	<	<	<	12	30	91	<	9	14	973	33	33	3	3	0.01	0.57
2960		9600721	3	--	<	20	32	66	6	7	<	2	<	<	<	10	26	81	<	9	16	546	26	32	3	3	0.01	0.63
2961		9600721	<	--	0.1	16	28	71	15	<	<	2	<	<	0.3	12	16	95	<	21	36	1363	16	9	<	<	0.01	1.19
2962		9600721	6	--	0.1	19	22	70	17	<	<	1	<	<	0.3	10	23	91	<	19	29	407	22	10	1	1	0.02	1.12
2963		9600721	8	--	<	26	80	161	40	13	<	2	<	<	<	16	27	131	<	20	35	1874	22	9	1	2	0.02	1.54
2964		9600721	<	--	<	19	22	63	24	5	<	1	<	<	0.2	6	17	161	<	20	32	287	15	9	2	1	0.01	1.26
2965		9600721	10	--	<	49	33	62	102	15	<	3	<	<	<	31	48	242	<	10	16	1502	17	21	<	3	0.01	0.57
2966		9600721	2	--	<	46	40	109	46	10	<	2	<	<	<	24	43	470	<	25	42	2000	22	19	1	2	0.02	1.50
2967		9600721	<	--	<	27	16	58	16	<	<	2	<	<	0.3	8	19	96	<	23	46	443	16	9	1	1	0.02	1.48
2968		9600721	2	--	<	28	15	55	16	<	<	2	<	<	<	10	20	86	<	24	52	547	18	9	1	1	0.03	1.46
2969		9600721	4	--	<	51	16	82	25	<	<	3	<	<	<	20	25	94	<	29	60	1220	15	12	1	2	0.04	1.76
2970		9600721	8	--	<	58	18	65	13	<	<	2	<	<	0.3	15	25	156	<	24	43	1146	16	11	1	2	0.03	1.13
2971		9600721	2	--	0.2	59	24	62	10	<	<	3	<	<	<	17	24	287	<	23	34	884	8	14	1	2	0.02	1.05
2972		9600721	3	--	<	35	28	90	10	<	<	3	<	<	<	23	27	199	<	19	31	1861	9	9	1	3	0.02	1.01
2973		9600721	13	--	<	81	46	83	<	<	<	2	<	<	<	23	33	376	<	24	25	1936	4	12	1	2	0.02	0.91
2974		9600721	84	--	<	51	23	74	11	<	<	1	<	<	<	15	28	199	<	23	36	1095	11	12	1	2	0.03	1.07
2975		9600721	5	--	<	26	22	73	7	<	<	2	<	<	0.1	15	26	242	<	21	33	1642	9	13	1	2	0.03	0.96
2976		9600721	27	--	<	27	16	64	19	<	<	2	<	<	0.2	10	20	102	<	24	48	687	17	10	1	1	0.03	1.39
2977		9600721	75	--	<	40	21	67	12	<	<	2	<	<	0.1	14	24	158	<	27	44	1110	15	10	1	2	0.04	1.33
2978		9600721	13	--	<	55	28	95	25	<	<	3	<	<	<	23	30	134	<	33	62	2253	21	13	1	2	0.04	1.98
2979		9600721	9	--	<	36	13	79	12	<	<	1	<	<	<	17	25	171	<	26	45	1207	10	12	1	2	0.03	1.32
1132	R	9600787	9	--	0.4	6	7	19	<	<	<	2	<	<	<	4	10	88	<	83	5	918	13	134	7	2	<	0.45
1133	R	9600787	9	--	0.3	5	5	16	<	5	<	2	<	<	<	4	11	72	<	162	3	906	8	40	4	1	<	0.18
1134	R	9600787	559	--	67.7	95	19364	1208	2626	1.0%	17	2	<	<	0.1m	1	8	7	<	137	3	63	4	11	9	2	<	0.22
1135	R	9600787	5	--	0.4	69	62	57	80	66	<	1	<	<	<	4	21	35	<	229	3	72	9	18	3	3	<	0.63
2980	R	9600787	<	--	0.1	6	9	23	12	10	<	2	<	<	<	4	13	153	<	249	5	2184	3	9	5	1	<	0.48
2981	R	9600787	<	--	0.2	9	14	30	5	8	<	2	<	<	<	5	17	48	<	259	5	332	4	6	6	1	<	0.67
2982	S	9600787	3	--	0.4	38	46	303	5	15	<	2	<	<	<	19	44	73	<	11	16	565	35	25	4	3	0.01	0.53
2983	S	9600787	22	--	3.3	49	386	509	172	138	<	2	<	<	2.6	26	51	94	<	7	9	1033	32	40	8	3	<	0.37
2984	S	9600787	164	--	54.0	28	4924	796	914	1485	<	2	<	<	14.0	13	24	52	<	8	10	833	34	37	4	3	<	0.31
2985	S	9600787	7	--	0.4	35	69	64	25	24	<	1	<	<	0.2	9	22	51	<	5	6	302	48	19	8	2	<	0.23
2986	S	9600787	99	--	7.1	47	591	416	239	451	<	2	<	<	3.2	14	34	79	<	6	9	1039	38	31	1	2	<	0.38
2987	S	9600787	10	--	0.6	46	96	180	23	31	<	2	<	<	<	18	41	76	<	7	12	656	36	24	8	3	0.01	0.38
Min Limit			0	2	0.07	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
Max Reported*			9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method			Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 10 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:45:69112796] | Certified BC Assayer: David Chiu

Sample Name		Ca %	Fe %	Mg %	K %	Na %	P %
2952	C	0.43	3.61	0.26	0.08	0.02	0.07
2954	C	0.36	3.62	0.22	0.07	0.01	0.06
2955	C	0.55	4.60	0.35	0.10	0.01	0.07
2956	C	0.25	3.96	0.24	0.09	0.02	0.06
2957	C	0.46	2.75	0.28	0.07	0.01	0.08
2958	C	0.09	3.78	0.30	0.07	0.01	0.06
2959	C	0.48	3.25	0.13	0.09	0.02	0.05
2960	C	0.67	3.09	0.15	0.04	0.01	0.06
2961	C	0.07	2.63	0.24	0.08	0.01	0.09
2962	C	0.13	2.65	0.32	0.07	0.01	0.07
2963	C	0.07	3.51	0.31	0.09	0.01	0.08
2964	C	0.08	2.32	0.24	0.06	0.01	0.08
2965	C	0.16	4.43	0.18	0.04	0.01	0.06
2966	C	0.15	4.68	0.45	0.06	0.01	0.09
2967	C	0.07	2.73	0.34	0.04	0.01	0.08
2968	C	0.07	3.00	0.35	0.02	0.01	0.05
2969	C	0.08	3.52	0.48	0.06	0.02	0.11
2970	C	0.14	2.93	0.41	0.05	0.01	0.08
2971	C	0.08	3.40	0.32	0.05	0.01	0.06
2972	C	0.04	3.53	0.28	0.05	0.01	0.04
2973	C	0.10	3.89	0.54	0.04	0.01	0.04
2974	C	0.13	3.12	0.47	0.04	0.01	0.06
2975	C	0.13	2.91	0.42	0.03	0.01	0.06
2976	C	0.09	2.85	0.38	0.04	0.01	0.08
2977	C	0.08	2.97	0.48	0.05	0.01	0.05
2978	C	0.10	4.01	0.53	0.08	0.02	0.16
2979	C	0.08	3.35	0.42	0.04	0.01	0.07
1132	R	4.52	3.11	0.32	0.15	0.03	0.01
1133	R	1.81	2.59	0.11	0.09	0.01	0.01
1134	R	0.02	8.42	0.01	0.09	0.02	0.02
1135	R	0.05	3.19	0.01	0.07	0.01	0.01
2980	R	0.03	1.98	0.14	0.06	0.02	0.01
2981	R	0.03	2.03	0.20	0.07	0.02	0.01
2982	S	0.21	4.23	0.16	0.07	0.02	0.05
2983	S	0.18	4.95	0.10	0.07	0.02	0.06
2984	S	0.10	3.82	0.06	0.08	0.01	0.04
2985	S	0.09	2.62	0.02	0.06	0.01	0.02
2986	S	0.14	4.81	0.04	0.08	0.02	0.05
2987	S	0.10	4.49	0.08	0.05	0.02	0.04
Min Limit		0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 26, 1996
In: Nov 26, 1996

[122118:58:55:69112696]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
1+00N	3+00W		9600787	13	---	0.8	21	188	116	143	66	<	1	<	<	0.8	12	20	150	<	16	25	930	20	33	1	1	0.01	1.12
1+00N	3+50W		9600787	9	---	0.3	17	45	94	44	9	<	2	<	<	<	8	20	146	<	26	49	390	14	16	1	1	0.02	1.73
1+00N	4+00W		9600787	40	---	5.8	36	539	406	524	274	<	1	<	<	5.5	10	28	111	<	18	26	882	29	11	1	2	0.01	1.17
1+00N	4+50W		9600787	9	---	0.5	19	67	144	217	57	<	2	<	<	0.5	10	23	98	<	24	31	487	20	30	1	2	0.03	1.23
1+50N	1+50W		9600787	18	---	0.5	17	31	80	282	18	<	1	<	<	0.4	8	22	80	<	19	23	257	22	38	1	2	0.02	1.03
1+50N	2+00W		9600787	<	---	0.2	14	33	61	78	8	<	2	<	<	0.3	6	14	107	<	21	41	502	16	11	<	<	0.01	1.37
1+50N	2+50W		9600787	5	---	0.2	13	31	68	47	9	<	2	<	<	0.3	7	15	170	<	19	37	923	17	19	<	1	0.01	1.46
1+50N	3+00W		9600787	6	---	0.7	20	146	95	70	54	<	2	<	<	0.5	13	21	151	<	18	28	987	20	20	1	1	0.01	1.24
1+50N	3+50W		9600787	5	---	0.2	16	26	87	31	5	<	3	<	<	<	9	21	135	<	27	45	529	14	15	1	1	0.02	1.53
1+50N	9+00W		9600787	90	---	0.3	17	28	97	108	15	<	2	<	<	<	10	26	159	<	30	54	508	14	19	1	2	0.02	2.02
1+50N	9+50W		9600787	103	---	3.6	29	337	158	2407	104	<	2	<	12	0.3	7	18	90	<	23	36	431	19	18	1	2	0.02	1.41
1+50N	10+00W		9600787	8	---	0.3	26	26	78	61	5	<	4	<	<	<	8	15	70	<	28	48	665	19	9	<	1	0.01	1.45
1+50N	10+50W		9600787	8	---	0.2	31	34	73	19	<	<	2	<	<	<	13	22	68	<	29	46	608	21	8	1	1	0.02	2.14
1+50N	11+00W		9600787	12	---	0.5	28	82	126	217	36	<	2	<	<	<	12	27	161	<	25	34	776	25	21	1	2	0.01	1.33
1+50N	11+50W		9600787	21	---	1.5	22	312	215	277	167	<	2	<	<	0.9	9	20	258	<	15	25	551	18	42	3	2	0.01	1.13
1+50N	12+00W		9600787	15	---	0.4	27	49	80	14	11	<	2	<	<	<	19	34	116	<	17	16	1423	27	29	3	3	0.01	0.82
1+50N	12+50W		9600787	6	---	0.2	18	32	64	6	<	<	2	<	<	<	11	18	130	<	17	32	822	18	19	1	1	0.01	0.98
2+50N	0+50E		9600787	6	---	0.2	21	29	68	27	<	<	2	<	<	<	10	19	78	<	24	46	530	17	10	1	1	0.02	1.45
2+50N	1+00E		9600787	5	---	0.3	19	23	74	219	9	<	2	<	<	0.2	9	18	132	<	21	38	807	14	16	1	1	0.01	1.38
2+50N	1+50E		9600787	32	---	0.7	20	71	78	685	28	<	2	<	5	<	11	19	182	<	22	39	737	17	23	1	1	0.01	1.39
2+50N	2+00E		9600787	54	---	0.3	20	44	83	352	17	<	2	<	<	<	11	21	108	<	21	40	647	18	14	<	1	0.02	1.36
2+50N	2+50E		9600787	46	---	0.5	30	49	84	358	19	<	2	<	7	<	15	30	154	<	22	35	849	24	24	1	2	0.02	1.36
2+50N	3+00E		9600787	59	---	4.7	31	334	204	794	145	<	2	<	<	1.2	14	23	109	<	16	28	736	25	43	1	2	0.02	0.92
2+50N	3+50E		9600787	27	---	1.4	22	87	169	270	38	<	2	<	<	0.3	12	27	156	<	23	31	931	20	21	1	1	0.01	1.31
2+50N	9+50W		9600787	6	---	0.4	21	59	369	89	30	<	2	<	<	1.2	12	28	89	<	22	38	514	15	14	2	2	0.03	1.32
2+50N	10+00W		9600787	72	---	3.6	35	143	167	185	51	<	2	<	<	<	17	33	152	<	16	24	1195	34	27	1	3	0.01	0.93
2+50N	10+50W		9600787	3	---	0.4	22	61	131	128	32	<	2	<	<	0.6	7	15	92	<	12	37	704	20	14	<	<	0.01	0.54
2+50N	11+00W		9600787	10	---	0.5	37	72	157	145	17	<	2	<	<	<	18	28	137	<	25	35	1861	34	21	1	1	0.01	1.30
2+50N	11+50W		9600787	35	---	1.1	25	196	173	554	66	<	3	<	<	<	12	26	265	<	38	38	1027	31	35	3	3	0.01	1.52
2+50N	12+00W		9600787	22	---	1.2	23	299	242	409	143	<	3	<	<	0.6	11	21	237	<	24	34	1113	26	38	2	2	0.01	1.16
2+50N	12+50W		9600787	16	---	0.4	27	33	76	15	8	<	2	<	<	<	15	31	125	<	21	28	1030	32	17	2	3	0.02	1.11
3+50N	0+50E		9600787	6	---	0.4	20	48	68	44	20	<	2	<	<	<	9	17	117	<	19	38	567	21	15	1	<	0.01	1.05
3+50N	1+00E		9600787	66	---	4.4	23	659	167	1117	363	<	1	<	<	1.1	11	23	127	<	16	26	799	25	39	1	1	0.01	0.96
3+50N	1+50E		9600787	6	---	0.4	28	55	141	184	14	<	2	<	<	0.1	16	36	191	<	28	45	945	24	20	1	2	0.03	1.71
3+50N	2+50E		9600787	18	---	0.4	26	38	110	204	12	<	2	<	<	0.5	14	27	120	<	24	38	923	19	18	1	2	0.02	1.27
3+50N	3+00E		9600787	22	---	5.1	27	336	161	487	94	<	2	<	<	0.6	11	21	143	<	19	29	805	24	38	1	1	0.01	0.96
3+50N	12+50W		9600787	41	---	3.0	35	694	1068	434	336	<	2	<	<	14.3	17	32	105	<	8	11	1864	36	51	1	3	<	0.42
4+50N	0+50E		9600787	<	---	0.2	23	37	80	16	5	<	2	<	<	0.3	12	25	74	<	17	30	427	26	15	1	2	0.02	0.72
4+50N	1+00E		9600787	33	---	0.5	18	60	94	226	18	<	2	<	<	0.4	9	15	103	<	20	40	990	17	14	1	<	0.01	1.21
Min Limit			0	2	0.07	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
Max Reported*			9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method			Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 26, 1996 | Page 11 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122118:58:56:69112696] | Certified BC Assayer: David Chiu

Sample Name			Ca %	Fe %	Mg %	K %	Na %	P %
1+00N	3+00W	S	0.46	2.59	0.29	0.08	0.02	0.09
1+00N	3+50W	S	0.19	3.12	0.46	0.06	0.01	0.07
1+00N	4+00W	S	0.13	3.17	0.30	0.06	0.01	0.07
1+00N	4+50W	S	0.41	2.93	0.43	0.07	0.02	0.06
1+50N	1+50W	S	0.34	2.23	0.33	0.08	0.01	0.05
1+50N	2+00W	S	0.08	2.68	0.24	0.07	0.01	0.09
1+50N	2+50W	S	0.28	2.72	0.26	0.07	0.01	0.11
1+50N	3+00W	S	0.24	2.79	0.27	0.08	0.02	0.10
1+50N	3+50W	S	0.20	3.11	0.44	0.07	0.01	0.08
1+50N	9+00W	S	0.19	3.37	0.56	0.05	0.01	0.07
1+50N	9+50W	S	0.10	3.34	0.39	0.06	0.01	0.07
1+50N	10+00W	S	0.04	3.71	0.16	0.05	0.01	0.12
1+50N	10+50W	S	0.07	4.23	0.44	0.07	0.01	0.11
1+50N	11+00W	S	0.21	3.31	0.37	0.07	0.02	0.09
1+50N	11+50W	S	0.44	3.04	0.22	0.09	0.02	0.15
1+50N	12+00W	S	0.51	3.83	0.25	0.09	0.01	0.08
1+50N	12+50W	S	0.21	3.08	0.21	0.08	0.01	0.09
2+50N	0+50E	S	0.07	3.39	0.31	0.07	0.01	0.06
2+50N	1+00E	S	0.17	2.94	0.33	0.06	0.01	0.07
2+50N	1+50E	S	0.14	3.40	0.33	0.08	0.01	0.08
2+50N	2+00E	S	0.09	3.05	0.34	0.07	0.01	0.06
2+50N	2+50E	S	0.14	3.86	0.38	0.08	0.02	0.06
2+50N	3+00E	S	0.09	3.60	0.26	0.12	0.02	0.06
2+50N	3+50E	S	0.19	3.28	0.36	0.07	0.01	0.07
2+50N	9+50W	S	0.14	2.61	0.44	0.04	0.01	0.05
2+50N	10+00W	S	0.25	4.40	0.24	0.07	0.01	0.09
2+50N	10+50W	S	0.11	2.69	0.06	0.06	0.01	0.08
2+50N	11+00W	S	0.23	4.89	0.28	0.09	0.01	0.13
2+50N	11+50W	S	0.46	4.43	0.36	0.09	0.02	0.13
2+50N	12+00W	S	0.53	4.06	0.24	0.09	0.02	0.15
2+50N	12+50W	S	0.28	3.58	0.34	0.07	0.01	0.06
3+50N	0+50E	S	0.12	3.00	0.20	0.08	0.01	0.07
3+50N	1+00E	S	0.12	3.58	0.25	0.14	0.02	0.07
3+50N	1+50E	S	0.14	3.79	0.53	0.10	0.02	0.07
3+50N	2+50E	S	0.16	2.97	0.40	0.06	0.01	0.07
3+50N	3+00E	S	0.14	3.25	0.26	0.12	0.02	0.08
3+50N	12+50W	S	0.15	4.24	0.08	0.09	0.02	0.06
4+50N	0+50E	S	0.15	2.67	0.27	0.05	0.01	0.05
4+50N	1+00E	S	0.06	2.86	0.15	0.08	0.01	0.07
Min Limit			0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*			9.99	9.99	9.99	9.99	5.00	5.00
Method			ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 96K1221

Client: Homestake Canada Inc
Project: Heidi 462 Pulp

iPL: 96K1221

Out: Nov 27, 1996
In: Nov 26, 1996

[122111:38:58:69112796]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name			iPL Job	Au ppb	Au g/mt	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 %
4+50N	1+50E		9600787	624	---	14.4	23	2106	81	8977	999	<	2	<	46	2.3	3	7	160	<	14	15	191	30	72	<	1	0.01	0.46
4+50N	2+00E		9600787	20	---	0.5	22	94	104	288	27	<	3	<	<	<	13	24	128	<	28	42	1284	20	12	1	1	0.01	1.67
4+50N	2+50E		9600787	12	---	0.5	33	64	163	197	22	<	2	<	<	0.3	18	29	96	<	25	45	1124	24	21	1	2	0.03	1.45
4+50N	3+00E		9600787	5	---	0.3	22	41	73	52	14	<	2	<	<	<	12	21	116	<	25	44	806	20	15	1	<	0.01	1.41
4+50N	9+50W		9600787	5	---	0.4	29	52	109	32	8	<	3	<	<	<	17	28	157	<	24	42	1932	28	16	1	2	0.02	1.51
4+50N	10+00W		9600787	6	---	0.3	30	48	100	50	10	<	2	<	<	<	16	34	140	<	18	29	1306	30	22	1	3	0.01	1.07
4+50N	10+50W		9600787	<	---	0.3	24	24	70	20	8	<	2	<	<	<	8	18	78	<	19	33	643	16	9	1	<	0.01	1.22
4+50N	11+00W		9600787	<	---	0.2	16	34	83	20	5	<	2	<	<	0.3	8	14	152	<	21	51	815	13	12	1	1	0.01	1.35
4+50N	11+50W		9600787	17	---	1.1	27	69	135	74	26	<	2	<	<	<	15	27	223	<	17	27	1732	20	34	2	2	0.01	1.06
4+50N	12+00W		9600787	<	---	0.4	14	25	70	12	<	<	1	<	<	0.8	7	12	209	<	9	13	1287	8	67	3	1	0.01	0.67
4+50N	12+50W		9600787	13	---	0.9	22	42	117	36	11	<	2	<	<	<	12	26	167	<	15	18	1642	27	44	2	3	0.01	0.85
5+50N	0+50E		9600787	<	---	0.3	26	41	104	54	8	<	2	<	<	<	13	26	110	<	19	32	775	34	23	1	2	0.02	1.03
5+50N	1+00E		9600787	164	---	6.7	17	1148	118	5308	433	<	2	<	7	1.0	4	9	127	<	12	26	369	23	51	1	1	0.01	0.59
5+50N	1+50E		9600787	36	---	2.5	30	253	245	735	91	<	3	<	<	0.7	13	27	101	<	16	23	1259	34	37	1	1	0.01	0.75
5+50N	2+00E		9600787	162	---	2.1	46	583	216	1108	313	<	2	<	9	3.6	22	42	187	<	20	26	1636	35	45	1	2	0.01	1.00
5+50N	2+50E		9600787	38	---	0.4	27	38	98	73	11	<	2	<	<	<	15	26	130	<	41	44	1062	25	16	<	1	0.01	1.62
5+50N	3+00E		9600787	33	---	0.4	33	35	91	103	8	<	2	<	<	<	21	31	126	<	25	41	1262	24	17	1	2	0.02	1.46
5+50N	3+50E		9600787	213	---	1.2	47	64	117	391	17	<	3	<	<	<	30	42	189	<	29	40	2101	30	32	1	3	0.02	1.68
6+00N	0+50E		9600787	4	---	0.4	26	82	103	33	21	<	3	<	<	<	14	29	110	<	22	28	1351	19	13	1	1	0.01	1.03
6+00N	1+00E		9600787	78	---	15.7	83	2353	1516	1859	1239	<	3	<	<	36.2	19	33	135	<	19	16	4646	20	96	1	3	0.01	0.71
6+00N	1+50E		9600787	43	---	3.5	36	284	641	648	69	<	3	<	<	2.9	15	36	175	<	21	28	1703	29	51	1	2	0.01	1.12
6+00N	2+00E		9600787	<	---	0.4	31	72	95	37	9	<	3	<	<	<	17	28	197	<	59	52	1081	33	15	1	1	0.02	1.89
6+00N	2+50E		9600787	11	---	0.2	24	36	76	19	5	<	2	<	<	0.2	15	25	76	<	25	42	605	23	10	1	1	0.03	1.17
6+00N	3+00E		9600787	3	---	0.3	28	34	76	12	<	<	2	<	<	<	15	23	104	<	26	40	923	28	12	1	<	0.01	1.40
6+00N	3+50E		9600787	6	---	0.3	36	53	102	17	5	<	2	<	<	<	21	36	188	<	26	35	1488	28	26	1	2	0.02	1.52
3+50N	9+50W		9600837	<	---	0.4	33	78	158	50	8	<	4	<	<	<	18	27	98	<	22	49	1566	23	11	1	2	0.03	1.12
3+50N	10+00W		9600837	12	---	0.5	22	27	104	14	6	<	2	<	<	0.5	9	17	100	<	15	41	687	16	20	<	1	0.01	0.67
3+50N	10+50W		9600837	20	---	2.4	43	231	269	151	77	<	2	<	<	0.2	21	37	155	<	15	24	1707	45	36	2	4	0.01	0.89
3+50N	11+00W		9600837	14	---	0.8	28	90	147	52	24	<	2	<	<	<	14	26	205	<	20	29	1338	21	45	3	3	0.01	1.25
3+50N	11+50W		9600837	2	---	0.2	27	64	133	49	13	<	2	<	<	0.1	18	28	161	<	19	34	2045	24	17	1	2	0.01	1.19
3+50N	12+00W		9600837	<	---	0.2	23	58	122	31	8	<	2	<	<	<	15	24	186	<	23	44	2046	17	21	1	1	0.02	1.39
3+50N	13+00W		9600837	5	---	0.4	29	45	75	11	7	<	3	<	<	<	23	40	137	<	11	19	1811	31	47	7	4	0.01	0.79
4+50N	13+00W		9600837	<	---	0.9	27	113	153	364	31	<	2	<	<	<	17	33	175	<	14	26	3336	27	23	3	4	0.01	0.97
Min Limit				0	2	0.07	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
Max Reported*				9999999	9999	1000.00	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	9.99
Method				Spec	FAAA	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Homestake Canada Inc | iPL: 96K1221 | Out: Nov 27, 1996 | Page 12 of 12 | Section 2 of 2
Project: Heidi 462 Pulp | In: Nov 26, 1996 | [122111:38:59:69112796] | Certified BC Assayer: David Chiu

Sample Name	Ca %	Fe %	Mg %	K %	Na %	P %
4+50N 1+50E	0.03	3.83	0.07	0.39	0.02	0.06
4+50N 2+00E	0.08	4.28	0.35	0.11	0.01	0.11
4+50N 2+50E	0.15	3.48	0.47	0.08	0.02	0.08
4+50N 3+00E	0.11	3.53	0.31	0.08	0.01	0.09
4+50N 9+50W	0.14	4.20	0.35	0.08	0.02	0.12
4+50N 10+00W	0.35	4.08	0.26	0.06	0.01	0.10
4+50N 10+50W	0.05	3.54	0.14	0.07	0.01	0.13
4+50N 11+00W	0.10	2.93	0.21	0.06	0.01	0.08
4+50N 11+50W	0.41	3.62	0.21	0.08	0.02	0.13
4+50N 12+00W	1.92	1.59	0.07	0.04	0.02	0.16
4+50N 12+50W	1.16	3.68	0.16	0.06	0.01	0.11
5+50N 0+50E	0.17	3.44	0.30	0.08	0.02	0.08
5+50N 1+00E	0.03	3.44	0.06	0.28	0.02	0.09
5+50N 1+50E	0.05	4.12	0.12	0.13	0.02	0.08
5+50N 2+00E	0.05	4.65	0.22	0.15	0.03	0.08
5+50N 2+50E	0.10	4.01	0.45	0.11	0.02	0.11
5+50N 3+00E	0.09	3.94	0.44	0.08	0.02	0.09
5+50N 3+50E	0.16	4.85	0.47	0.11	0.02	0.12
6+00N 0+50E	0.08	3.62	0.13	0.07	0.01	0.13
6+00N 1+00E	0.06	6.22	0.09	0.17	0.02	0.10
6+00N 1+50E	0.10	4.06	0.29	0.14	0.02	0.07
6+00N 2+00E	0.09	4.58	0.54	0.16	0.02	0.12
6+00N 2+50E	0.10	2.98	0.39	0.05	0.01	0.04
6+00N 3+00E	0.08	4.42	0.33	0.09	0.01	0.11
6+00N 3+50E	0.21	4.18	0.46	0.10	0.02	0.11
3+50N 9+50W	0.08	4.31	0.23	0.07	0.01	0.11
3+50N 10+00W	0.27	2.75	0.12	0.07	0.01	0.15
3+50N 10+50W	0.16	4.54	0.22	0.08	0.02	0.10
3+50N 11+00W	0.70	3.60	0.30	0.07	0.01	0.14
3+50N 11+50W	0.14	3.66	0.26	0.08	0.01	0.10
3+50N 12+00W	0.26	3.89	0.30	0.07	0.01	0.13
3+50N 13+00W	0.87	5.65	0.19	0.05	0.01	0.10
4+50N 13+00W	0.23	4.77	0.16	0.07	0.01	0.15
Min Limit	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	9.99	9.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

APPENDIX III

CORRESPONDENCE WITH MAYO MINING RECORDER

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

I (Name) Henry Marsden Occupation Geologist

(Postal Address) # 201-134 West 20th St, North Vanc. BC. CANADA. V7M 1Y2

OFFICE DATE STAMP

AKE OATH AND SAY, THAT:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

I have done, or caused to be done, work on the following mineral claim(s):

Here list claims on which work was actually done by number and name)

Heidi 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22

situated at south side of Lake Creek. Claim Sheet No. 116A/5

in the Mayo Mining District, to the value of at least $1,200

Dollars, since the 11th day of July 19 96,

to represent the following mineral claims under the authority of Grouping Certificate No. _____

Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

Heidi 13 YB64656 - 1 year
Heidi 14 YB 64657 - 1 year
Heidi 15 YB 64658 - 1 year
Heidi 16 YB64659 - 1 year
Heidi 17 YB 64660 - 1 year
Heidi 18 YB 64661 - 1 year
Heidi 19 YB 64662 - 1 year
Heidi 20 YB 64663 - 1 year
Heidi 21 YB64664 - 1 year
Heidi 22 YB64665 - 1 year
Heidi 23 YB64666 - 1 year
Heidi 24 YB64667 - 1 year

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

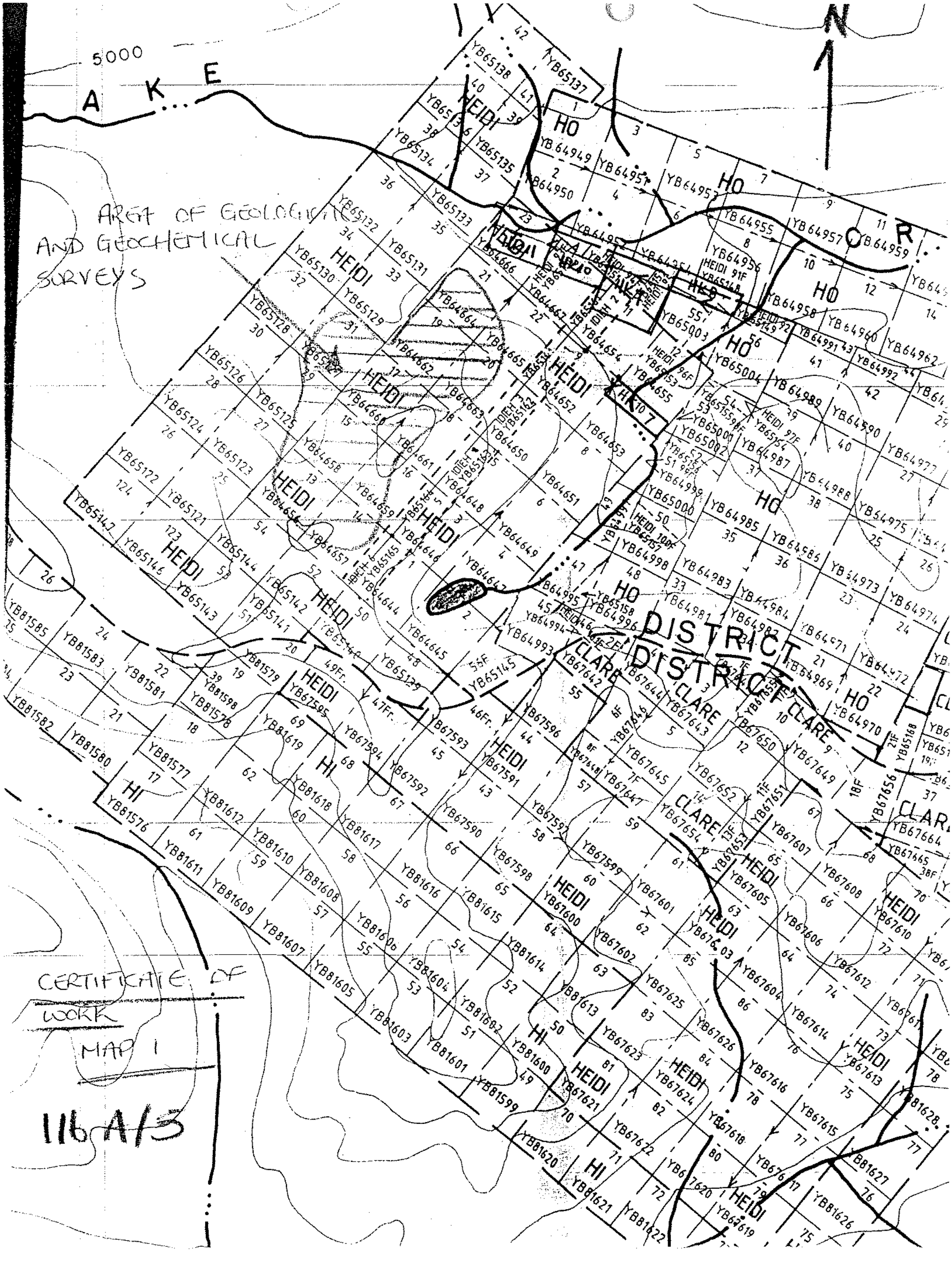
Geological and geochemical surveys completed between July 11th and July 26th, 1996. 1:10,000 mapping and prospecting on orthophoto and contour soil sampling

Sworn before me at _____

this _____ day of _____ 19___.

_____
Notary Public

_____
Owner or Authorized Agent


5000
A K E
N
AREA OF GEOLOGICAL AND GEOCHEMICAL SURVEYS
HEIDI
HO
CR
CLARE
HI
DISTRICT
DISTRICT
CERTIFICATE OF WORK
MAP 1
116 A/3

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

YUKON QUARTZ MINING ACT

APPLICATION TO GROUP MINERAL CLAIMS

MINING DISTRICT DAWSON

(We) the undersigned owner(s) or agent(s) of the owner(s) of the following Mineral Claims

OFFICE DATE STAMP

GRANT NUMBER(S)	CLAIM NAME(S)	LOCATION	CLAIM SHEET NO.
YB 64656	Heidi 13	Lake Creek	116A/5
YB 64657	Heidi 14	"	"
YB 64658	Heidi 15	"	"
YB 64659	Heidi 16	"	"
YB 64660	Heidi 17	"	"
YB 64661	Heidi 18	"	"
YB 64662	Heidi 19	"	"
YB 64663	Heidi 20	"	"
YB 64664	Heidi 21	"	"
YB 64665	Heidi 22	"	"
YB 64666	Heidi 23	"	"
YB 64667	Heidi 24	"	"

Give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of Section 52 of the Yukon Quartz Mining Act for a certificate in Form "E"

I (We) hereby certify that the above claims are adjoining as shown on attached sketch

DATED AT _____

THIS **DAY OF** **19**

_____

_____

_____

_____

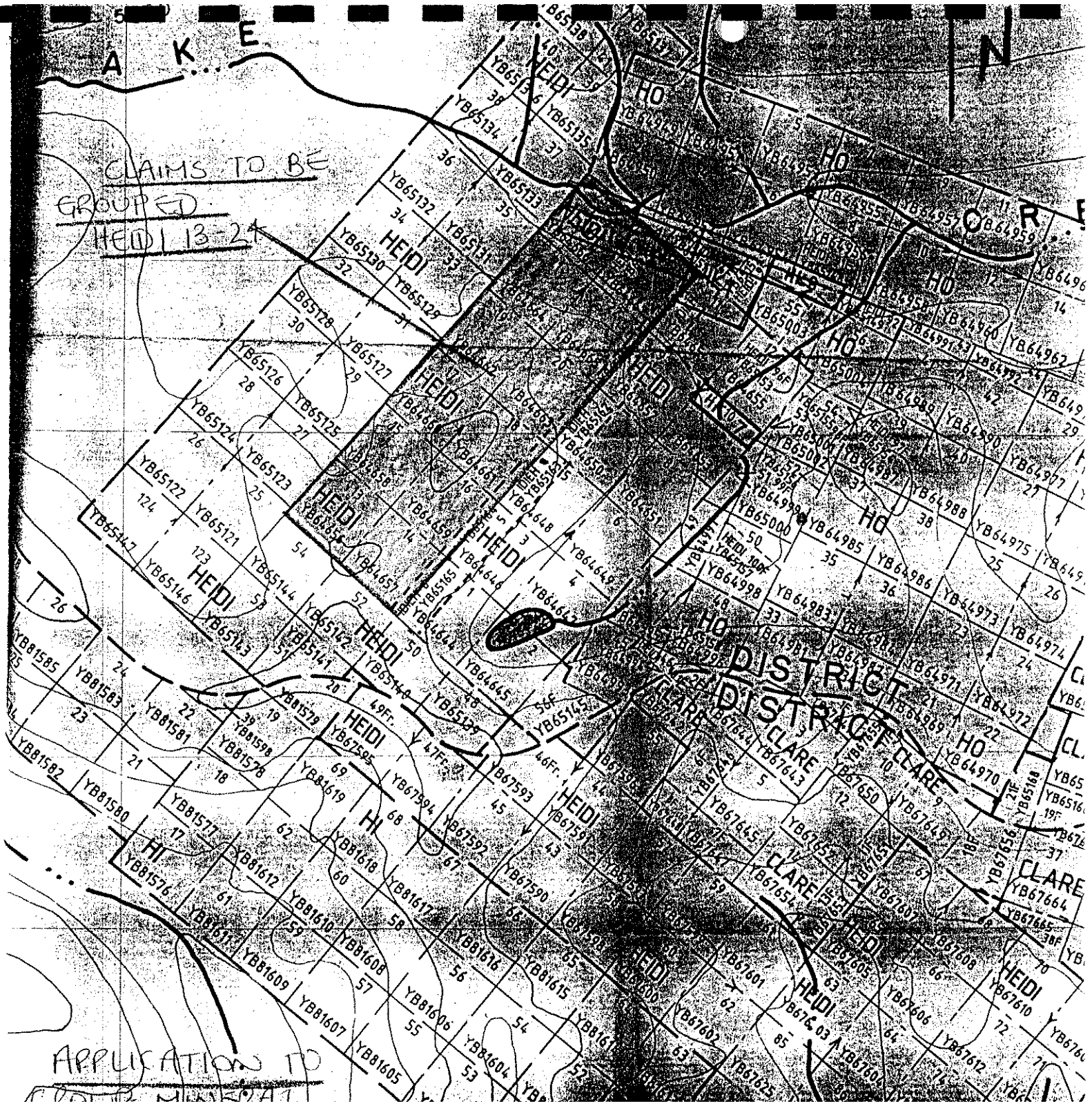
owner(s) signature

FOR OFFICE USE ONLY

FORM "E" NO.

RECEIPT NO.

DATE APPLIED



HOMESTAKE

VIA COURIER

October 3, 1996

Mining Recorder
P.O Box 10
Mayo, YT
Y0B 1M0

Attention : Mr. David G. Wiebe, Mining Recorder

Dear Sir(s);

Re : Heidi 25 to Heidi 40 Claims - Mayo Mining District

Pursuant to Sections 53 and 54 of the Quartz Mining Act in the Yukon Territory, please find enclosed in duplicate an application to group and an application for certificate work on the above referenced Heidi mineral claims. Also enclosed is Dominic Bordin's cheque in favor of the Receiver General for Canada in the amount of $90.00, for the required recording fees.

In additon, please find enclosed in duplicate a report prepared by R.A. Doherty, P.Geo, of Aurum Geological Consultants Inc. for a 1995 Trenching Program on the Heidi Claims supporting the recorded application for certificate of work dated August 8, 1996.

Yours truly,

Homestake Canada Inc.

Gene Gulajec
Land Manager

Attachment
f.1504.09.03

Homestake Canada Inc.
1000 - 700 West Pender Street • Vancouver, British Columbia • V6C 1G8 • Phone: (604) 684-2345 • Fax: (604) 684-9831

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

APPLICATION FOR A CERTIFICATE OF WORK
FORM 4 (SEC. 53)
YUKON QUARTZ MINING ACT

This form required in duplicate with sketch showing location of work.

Office Date Stamp

I, (name) E. J. GULAJEC, occupation LAND MANAGER

of (postal address) C/O HOMESTAKE CANADA INC., #1000, 700 WEST PENDER ST, VANCOUVER, B.C. V6C 1G8

make oath and say that:

1. I am the owner, or (agent) of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

YB 65121 HEIDI 25
YB 65123 HEIDI 27
YB 65125 HEIDI 29

situated at TRIBUTARY OF LAKE CREEK Claim Sheet No. 116 A-5 (FISHCREEK)

in the MAYO Mining District, to the value of at least $1700.00 dollars,

since the 22nd day of JULY 19 96,

to represent the following mineral claims under the authority of Grouping Certificate No. HEIDI GROUP A
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YB 65121 HEIDI 25 RENEW FOR 2 YEARS (FROM OCT. 2/96 to OCT. 2/98)
YB 65122 HEIDI 26 RENEW FOR 1 YEAR (OCT. 2/96 to OCT 2/97)
YB 65123 HEIDI 27 "
YB 65124 HEIDI 28 "
YB 65125 HEIDI 29 "
YB 65126 HEIDI 30 "
YB 65127 HEIDI 31 "
YB 65128 HEIDI 32 "
YB 65129 HEIDI 33 "
YB 65130 HEIDI 34 "
YB 65131 HEIDI 35 "
YB 65132 HEIDI 36 RENEW FOR 1 YEAR (OCT 2/96 to OCT 2/97)
YB 65133 HEIDI 37 RENEW FOR 1 YEAR

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

MAPPING AND SAMPLING
EXPLORATION WORK COMPLETED BETWEEN: JULY 22, 1996
to SEPTEMBER 14, 1996.
REPORT TO FOLLOW.

2. Continued....
YB 65134 HEIDI 38 RENEW FOR 1 YEAR (OCT 2/96 to OCT 2/97)
YB 65135 HEIDI 39 "
YB 65136 HEIDI 40 "

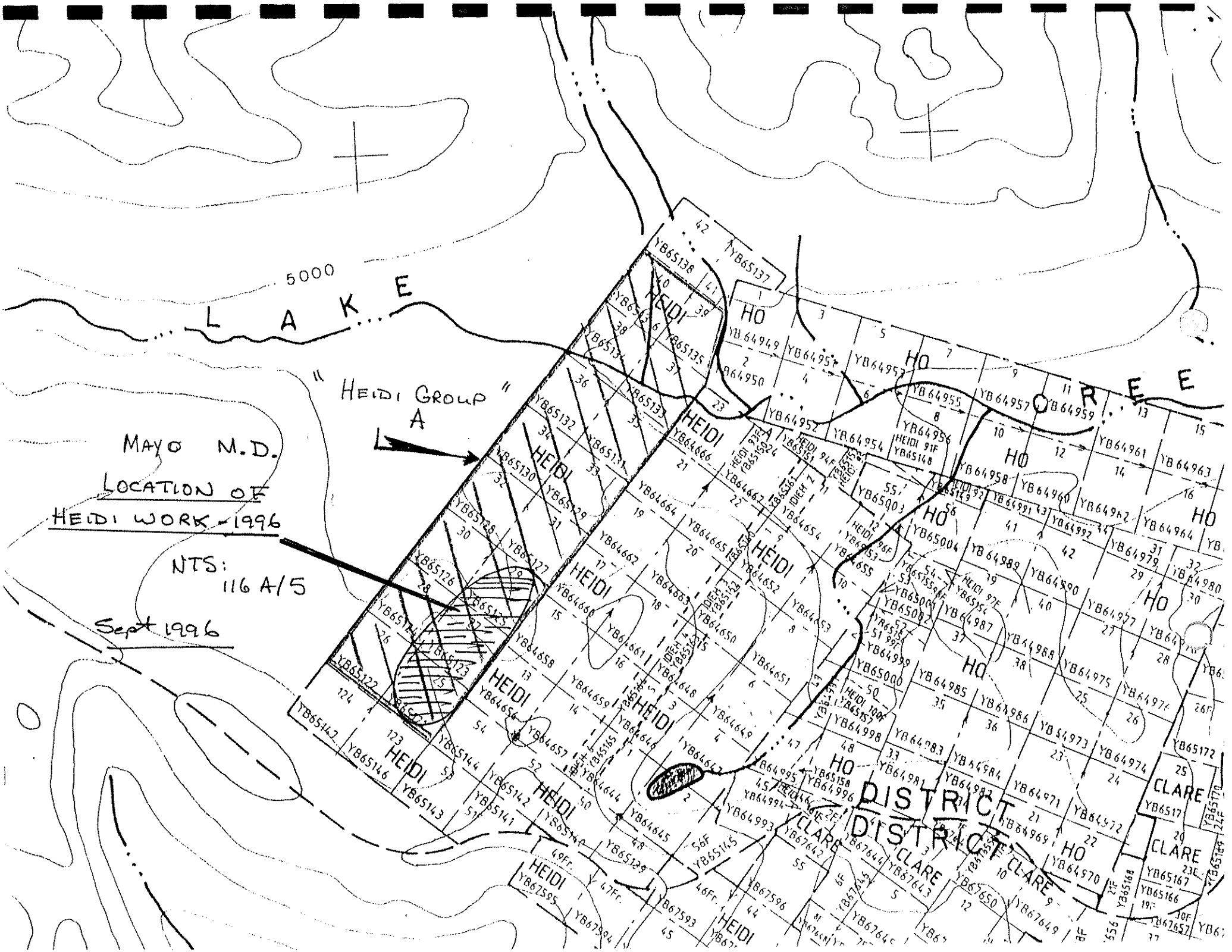
Sworn before me at Vancouver BC.

this 27 day of September, 19 96

GRAHAM H. SCOTT
BARRISTER & SOLICITOR
1040 - 999 West Hastings Street
Vancouver B.C. V6C 2W2

Notary Public

Owner or Authorized Agent


5000
LAKE
"HEIDI GROUP"
A
MAYO M.D.
LOCATION OF
HEIDI WORK - 1996
NTS:
116 A/5
Sept 1996
HEIDI
HO
CLARE
DISTRICT

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

APPLICATION TO GROUP MINERAL CLAIMS

YUKON QUARTZ MINING ACT

Mining District: MAYO

Office Date Stamp

I (We) the undersigned owner(s) or agent(s) of the owner(s) of the following Mineral Claims

Grant Number(s)	Claim Name(s)	Location	Claim Sheet Number
YB65121	HEIDI 25	LAKE CREEK	116 A/05
YB65122	HEIDI 26	↓	↓
YB65123	HEIDI 27	↓	↓
YB65124	HEIDI 28	↓	↓
YB65125	HEIDI 29	↓	↓
YB65126	HEIDI 30	↓	↓
YB65127	HEIDI 31	↓	↓
YB65128	HEIDI 32	↓	↓
YB65129	HEIDI 33	↓	↓
YB65130	HEIDI 34	↓	↓
YB65131	HEIDI 35	↓	↓
YB65132	HEIDI 36	↓	↓
YB65133	HEIDI 37	↓	↓
YB65134	HEIDI 38	↓	↓
YB65135	HEIDI 39	↓	↓
YB65136	HEIDI 40	LAKE CREEK	116 A/05

give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of Section 52 of the Yukon Quartz Mining Act for a certificate in Form 6. — HEIDI GROUP A —

I (We) hereby certify that the above claims are adjoining as shown on attached sketch.

Dated at VANCOUVER

this 26th day of September, 19 96.

Owner(s) Signature

FOR OFFICE USE ONLY

Form 6 Number	Receipt Number	Date Applied

802-26 (7-88)

Canada

NTS: 116 A/5
Heidi Group A
L A K E
5000
HEIDI
HO
CLARE
DISTRICT

HOMESTAKE

COPY

September 20, 1996

Mining Recorder
P.O Box 10
Mayo, YT
Y0B 1M0

Attention : Mr. David G. Wiebe, Mining Recorder

Dear Sir(s):

Re : Heidi Claims - Mayo Mining District

Pursuant to Sections 57(1) and 57(2) of the Yukon Quartz Mining Act, Homestake Canada Inc. hereby elects to pay cash in lieu of the work required on each of the following claims:

Claim Name	Grant No. (Not issued)	Current Expiry Date	New Expiry Date
Heidi 41	YB65137	1996/10/02	1997/10/02
Heidi 42	YB65138	1996/10/02	1997/10/02
Heidi 48	YB65139	1996/10/02	1997/10/02
Heidi 50	YB65140	1996/10/02	1997/10/02
Heidi 51	YB65141	1996/10/02	1997/10/02
Heidi 52	YB65142	1996/10/02	1997/10/02
Heidi 53	YB65143	1996/10/02	1997/10/02
Heidi 54	YB65144	1996/10/02	1997/10/02
Heidi 56	YB65145	1996/10/02	1997/10/02
Heidi 91	YB65148	1996/10/02	1997/10/02
Heidi 92	YB65149	1996/10/02	1997/10/02
Heidi 93	YB65150	1996/10/02	1997/10/02
Heidi 94	YB65151	1996/10/02	1997/10/02

Homestake Canada Inc.
1000 - 700 West Pender Street • Vancouver, British Columbia • V6C 1G8 • Phone: (604) 684-2345 • Fax: (604) 684-9831

Heidi 95	YB65152	1996/10/02	1997/10/02
Heidi 96	YB65153	1996/10/02	1997/10/02
Heidi 97	YB65154	1996/10/02	1997/10/02
Heidi 98	YB65155	1996/10/02	1997/10/02
Heidi 99	YB65156	1996/10/02	1997/10/02
Heidi100	YB65157	1996/10/02	1997/10/02
Heidi 101	YB65158	1996/10/02	1997/10/02
Heidi 123	YB65146	1996/10/02	1997/10/02
Heidi 124	YB65147	1996/10/02	1997/10/02

Please find enclosed our payment in the amount of $2310.00, being the $100 cash in lieu of work payment and a $5.00 recording fee per claim.

Yours truly,

Homestake Canada Inc.

Gene Gulajec
Land Manager

GG/kaf
Attachment

j:\user\ggulajec\wpfile\heidi\cashlieu.ltr

APPENDIX IV

CORRESPONDENCE WITH DAWSON MINING RECORDER

HOMESTAKE

VIA COURIER

October 8, 1996

Mining Recorder
P.O. Box 249
Dawson City, YT
Y0B 1G0

Attention : Ms. Marion Dejean, Mining Recorder

Dear Ms. Dejean:

Re : Heidi 43 to Heidi 84 Claims - Dawson Mining District

Pursuant to Sections 53 and 54 of the Quartz Mining Act in the Yukon Territory, please find enclosed in duplicate, three applications to group mineral claims and one application for certificate work for the above referenced Heidi mineral claims.

Enclosed is Homestake's cheque in the amount of $570.00 in favor of the Receiver General for Canada for the required recording fees along with a letter authorizing certain employees to act as agents for Homestake Canada Inc.

Should you require any further information regarding this filing, please call me at 604-895-4414.

Yours truly,

Homestake Canada Inc.

Gene Gulajec
Land Manager

Attachment
f.1504.09.03

Homestake Canada Inc.
1000 - 700 West Pender Street • Vancouver, British Columbia • V6C 1G8 • Phone: (604) 684-2345 • Fax: (604) 684-9831

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

APPLICATION FOR A CERTIFICATE OF WORK
FORM 4 (SEC. 53)
YUKON QUARTZ MINING ACT

This form required in duplicate with sketch showing location of work.

Office Date Stamp

I, (name) E.J. GULAJEC, occupation LAND MANAGER

of (postal address) C/O HOMESTAKE CANADA INC., #1000, 700 WEST PENDER ST VANCOUVER, B.C. V6C 1G8

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

YB 67590 HEIDI 43
YB 67591 HEIDI 44
YB 67592 HEIDI 45
YB 67593 HEIDI 46 Fr.
YB 67594 HEIDI 47 Fr.
YB 67595 HEIDI 49 Fr.
YB 67596 HEIDI 55
YB 67597 HEIDI 57
YB67598 HEIDI 58
YB67599 HEIDI 59
YB67600 HEIDI 60
YB 67601 HEIDI 61
YB.67602 HEIDI 62
YB67603 HEIDI 63
YB67604 HEIDI 64
YB.67605 HEIDI 65
YB.67606 HEIDI 66
YB.67607 HEIDI 67
YB67608 HEIDI 68
YB67609 HEIDI 69
YB67610 HEIDI 70
YB67611 HEIDI 71
YB67612 HEIDI 72
YB67614 HEIDI 74
YB67616 HEIDI 76
YB67618 HEIDI 78
YB67620 HEIDI 80
YB67621 HEIDI 81
YB67622 HEIDI 82
YB67623 HEIDI 83
YB67624 HEIDI 84
YB67625 HEIDI 85
YB67626 HEIDI 86

$363.00

situated at TRIBUTARY OF HAMILTON CREEK Claim Sheet No. 116 A-5

in the DAWSON Mining District, to the value of at least $12,000 dollars,

since the JUNE 16th day of JUNE 1996.

to represent the following mineral claims under the authority of Grouping Certificate No. HEIDI GROUP B, HEIDI GROUP C, HEIDI GROUP D
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

(i) APPLY $2,400 OF THE ABOVE REPRESENTATION WORK TO "HEIDI GROUP B" (8 claims) for A RENEWAL PERIOD OF (3) THREE YEARS

(ii) APPLY $4,800 OF THE ABOVE REPRESENTATION WORK TO "HEIDI GROUP C" (16 claims) for A RENEWAL PERIOD OF (3) YEARS

(iii) APPLY $3,900 OF THE ABOVE REPRESENTATION WORK TO "HEIDI GROUP D" (13 claims) FOR A RENEWAL PERIOD OF (3) YEARS.

TOTAL APPLIED $11,100.

SEE ATTACHED SCHEDULE FOR CLAIM RENEWAL DETAILS.

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53

GEOLOGICAL MAPPING AND SAMPLING
EXPLORATION WORK COMPLETED BETWEEN JUNE 16/96 TO SEPTEMBER 20, 1996.

REPORT TO FOLLOW.

Sworn before me at Vancouver, B.C.

this 8th day of October, 19 97

Notary Public

Owner or Authorized Agent

802-33 (7-88)

Canada

Schedule to APPLICATION FOR A CERTIFICATE OF WORK Dated October 1, 1996
Heidi Claims, Dawson Mining District
Renewal Dates

"Heidi Group B"

Grant No.	Claim Name	Renewal Period	Grant No.	Claim Name	Renewal Period
YB67590	Heidi 43	96/Oct/12 to 99/Oct/12	YB67595	Heidi 49 Fr.	96/Oct/12 to 99/Oct/12
YB67591	Heidi 44	96/Oct/12 to 99/Oct/12	YB 67596	Heidi 55	96/Oct/12 to 99/Oct/12
YB67592	Heidi 45	96/Oct/12 to 99/Oct/12	YB67598	Heidi 58	96/Oct/12 to 99/Oct/12
YB67593	Heidi 46 Fr.	96/Oct/12 to 99/Oct/12			
YB67594	Heidi 47 Fr.	96/Oct/12 to 99/Oct/12			

Total 8 Claims

"Heidi Group C"

Grant No.	Claim Name	Renewal Period	Grant No.	Claim Name	Renewal Period
YB67597	Heidi 57	96/Oct/12 to 99/Oct/12	YB67619	Heidi 79	96/Oct/12 to 99/Oct/12
YB67599	Heidi 59	96/Oct/12 to 99/Oct/12	YB67620	Heidi 80	96/Oct/12 to 99/Oct/12
YB67600	Heidi 60	96/Oct/12 to 99/Oct/12	YB67621	Heidi 81	96/Oct/12 to 99/Oct/12
YB67601	Heidi 61	96/Oct/12 to 99/Oct/12	YB67622	Heidi 82	96/Oct/12 to 99/Oct/12
YB67602	Heidi 62	96/Oct/12 to 99/Oct/12	YB67623	Heidi 83	96/Oct/12 to 99/Oct/12
YB67616	Heidi 76	96/Oct/12 to 99/Oct/12	YB67624	Heidi 84	96/Oct/12 to 99/Oct/12
YB67617	Heidi 77	96/Oct/12 to 99/Oct/12	YB67625	Heidi 85	96/Oct/12 to 99/Oct/12
YB67618	Heidi 78	96/Oct/12 to 99/Oct/12	YB67626	Heidi 86	96/Oct/12 to 99/Oct/12

Total 16 Claims

4800

200

"Heidi Group D"

Grant No.	Claim Name	Renewal Period	Grant No.	Claim Name	Renewal Period
YB67603	Heidi 63	96/Oct/12 to 99/Oct/12	YB67610	Heidi 70	96/Oct/12 to 99/Oct/12
YB67604	Heidi 64	96/Oct/12 to 99/Oct/12	YB67611	Heidi 71	96/Oct/12 to 99/Oct/12
YB67605	Heidi 65	96/Oct/12 to 99/Oct/12	YB67612	Heidi 72	96/Oct/12 to 99/Oct/12
YB67606	Heidi 66	96/Oct/12 to 99/Oct/12	YB67613	Heidi 73	96/Oct/12 to 99/Oct/12
YB67607	Heidi 67	96/Oct/12 to 99/Oct/12	YB67614	Heidi 74	96/Oct/12 to 99/Oct/12
YB67608	Heidi 68	96/Oct/12 to 99/Oct/12	YB67615	Heidi 75	96/Oct/12 to 99/Oct/12
YB67609	Heidi 69	96/Oct/12 to 99/Oct/12			

Total 13 Claims

93


DISTRICT
DISTRICT
HEIDI
CLARE
HO
DAWSON M.D.
LOCATION OF WORK
ON HEIDI CLAIMS
NTS: 116 4/5
Sept 30/96

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

APPLICATION TO GROUP MINERAL CLAIMS
YUKON QUARTZ MINING ACT

Office Date Stamp

Mining District: DAWSON MINING DISTRICT

I (We) the undersigned owner(s) or agent(s) of the owner(s) of the following Mineral Claims

Grant Number(s)	Claim Name(s)	Location	Claim Sheet Number
YB 67590	HEIDI 43	TRIBUTARY OF HAMILTON CREEK	116 A/5
YB 67591	HEIDI 44		
YB 67592	HEIDI 45		
YB 67593	HEIDI 46 Fr.		
YB 67594	HEIDI 47 Fr.		
YB 67595	HEIDI 49 Fr.		
YB 67596	HEIDI 55		
YB 67598	HEIDI 58		

give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of Section 52 of the Yukon Quartz Mining Act for a certificate in Form 6. "HEIDI GROUP B"

I (We) hereby certify that the above claims are adjoining as shown on attached sketch.

Dated at Vancouver, B.C.

this 30 day of September, 19 96.

Owner(s) Signature

FOR OFFICE USE ONLY

Form 6 Number	Receipt Number	Date Applied

802-25 (7-88)

Canada


DISTRICT
DISTRICT
"HEIDI GROUP"
B
HEIDI
CLARE
HO
NTS: 116A/5 — 30'

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

APPLICATION TO GROUP MINERAL CLAIMS
YUKON QUARTZ MINING ACT

Mining District: DAWSON

Office Date Stamp

I (We) the undersigned owner(s) or agent(s) of the owner(s) of the following Mineral Claims

Grant Number(s)	Claim Name(s)	Location	Claim Sheet Number
YB 67597	HEIDI 57	TRIBUTARY OF HAMILTON CREEK	116 A/5
YB 67599	HEIDI 59		
YB 67600	HEIDI 60		
YB 67601	HEIDI 61		
YB 67602	HEIDI 62		
YB 67616	HEIDI 76		
YB 67617	HEIDI 77		
YB 67618	HEIDI 78		
YB 67619	HEIDI 79		
YB 67620	HEIDI 80		
YB 67621	HEIDI 81		
YB 67622	HEIDI 82		
YB 67623	HEIDI 83		
YB 67624	HEIDI 84		
YB 67625	HEIDI 85		
YB 67626	HEIDI 86		

give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of Section 52 of the Yukon Quartz Mining Act for a certificate in Form 6. "HEIDI GROUP C"

I (We) hereby certify that the above claims are adjoining as shown on attached sketch.

Dated at Vancouver, B.C.

this 30 day of September, 19 96.

Owner(s) Signature

FOR OFFICE USE ONLY

Form 6 Number	Receipt Number	Date Applied

802-26 (7-88)

Canada


DISTRICT
DISTRICT
HEIDI
CLARE
HO
"HEIDI GROUP C"
NTS: 116A/5
20'

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

APPLICATION TO GROUP MINERAL CLAIMS
YUKON QUARTZ MINING ACT

Mining District: DAWSON

Office Date Stamp

I (We) the undersigned owner(s) or agent(s) of the owner(s) of the following Mineral Claims

Grant Number(s)	Claim Name(s)	Location	Claim Sheet Number
YB 67603	HEIDI 63	TRIBUTARY OF HAMILTON CREEK	116 A/5
YB 67604	HEIDI 64		
YB 67605	HEIDI 65		
YB 67606	HEIDI 66		
YB 67607	HEIDI 67		
YB 67608	HEIDI 68		
YB 67609	HEIDI 69		
YB 67610	HEIDI 70		
YB 67611	HEIDI 71		
YB 67612	HEIDI 72		
YB 67613	HEIDI 73		
YB 67614	HEIDI 74		
YB 67615	HEIDI 75		

give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of Section 52 of the Yukon Quartz Mining Act for a certificate in Form 6. "HEIDI GROUP D"

I (We) hereby certify that the above claims are adjoining as shown on attached sketch.

Dated at Vancouver, B.C.

this 30 day of September, 19 96.

Owner(s) Signature

FOR OFFICE USE ONLY

Form 6 Number	Receipt Number	Date Applied

802-25 (7-88)

Canada


DISTRICT
DISTRICT
HEIDI
CLARE
HO
"HEIDI GROUP D"
NTS: 116 A/5
20'

LEGEND

Rock Units

1: PCh Undivided Hyland Group

1a: Well-bedded, sandstone, grit, minor shale

1b: Phyllitic shale, siltstone, fine-grained sandstone

1c: Laminated shale, siltstone

2a: Green micaceous sandstone, shale

2b: Green phyllitic shale, laminated siltstone-shale

2c: Red (maroon) and green slatey shale

3: Deformed mid T diorite

4a: Biotite-plagioclase dykes

4b: Lamporphyre dykes

Symbols

- Alteration
- Outcrop
- Float
- Folding
- Interpretation/Quaternary boundary
- Veining, stockwork

Abbreviations

aspy	Arsenopyrite
bi	Biotite
c./calc.	Calcareous
carb	Carbonate
crse	Coarse-grained
gal	Galena
mal	Malachite
mod	Moderate
po	Pyrrhotite
py	Pyrite
qz	Quartz
sst	Sandstone
scor	Scoridite
ser	Sericite
sh	Shale
soc	Sub-outcrop
sph	Sphalerite
stb	Stibnite

Homestake Canada Inc

Heidi Property Geology

0C3524 **1:10 000**

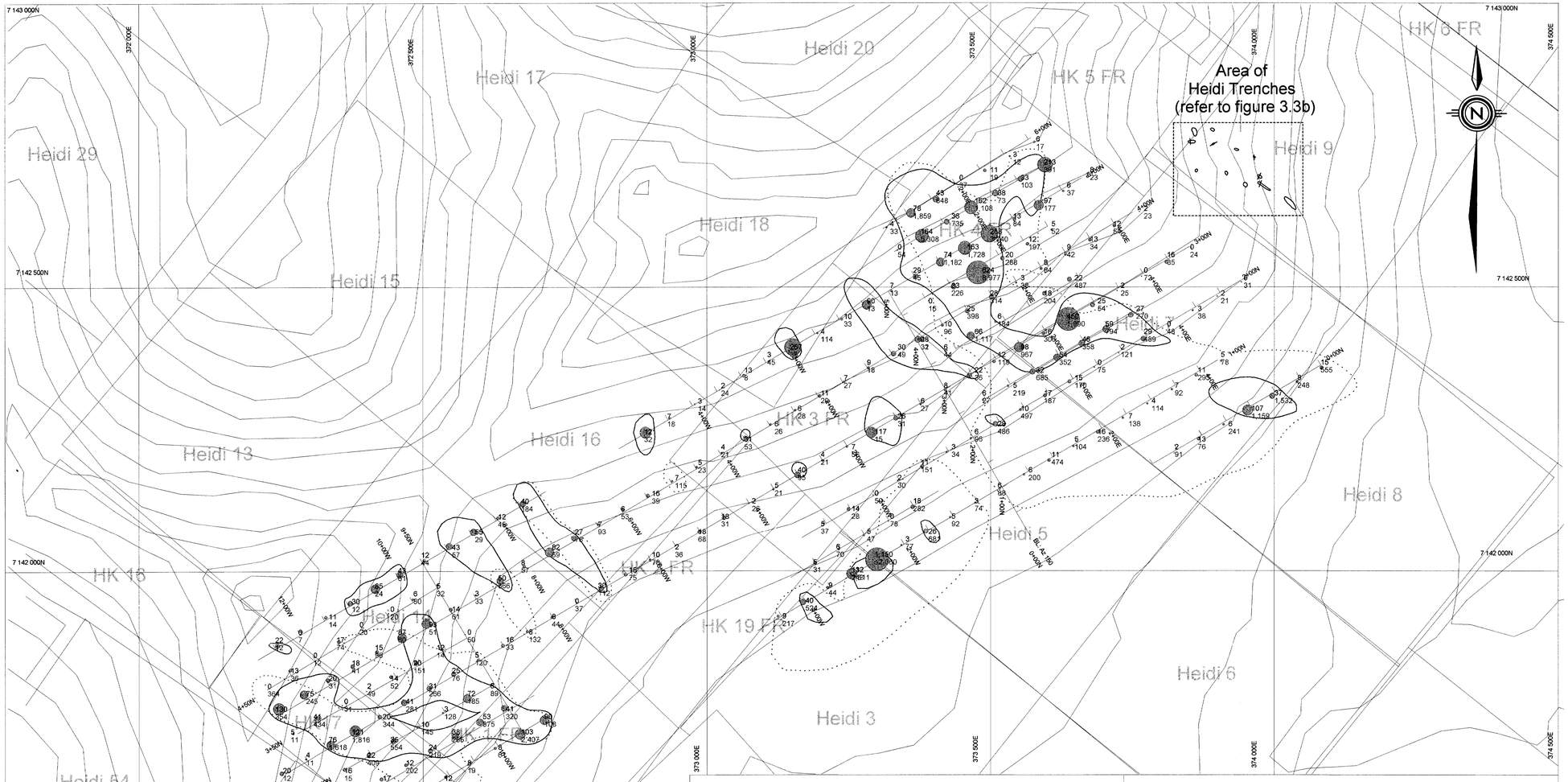
0 125 250 375 metres

NTS 116A/5	D.Bordin, H. Marsden, A.Ross, J. Lewis, M. Papageorge

D. Figure 5.2

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GEOSCIENTIST

(1)



Legend

- 75 ppm As contour line
- 20 ppb Au contour line
- 16 — Au (ppb)
- 108 — As (ppm)
- Gold symbol (gradational)

Homestake Canada Inc.

Au & As
Soil Geochemistry
Heidi Property

093524

1:4000

0 125 250 375
metres

NTS:116A\5	Drawn by: AR/MP	Nov.'96	Fig. 3.1

PROFESSIONAL ENGINEER
D. L. KUHAN
SCIENTIST

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