

**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**

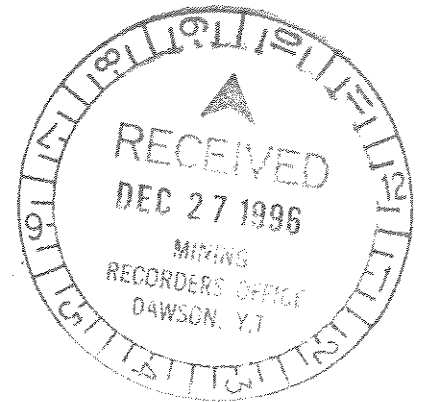
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**Property Location:**

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.**  
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**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.

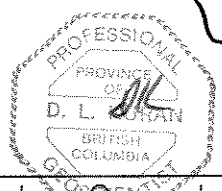
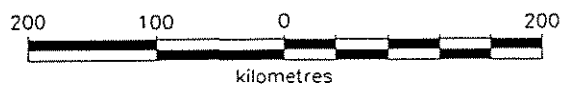
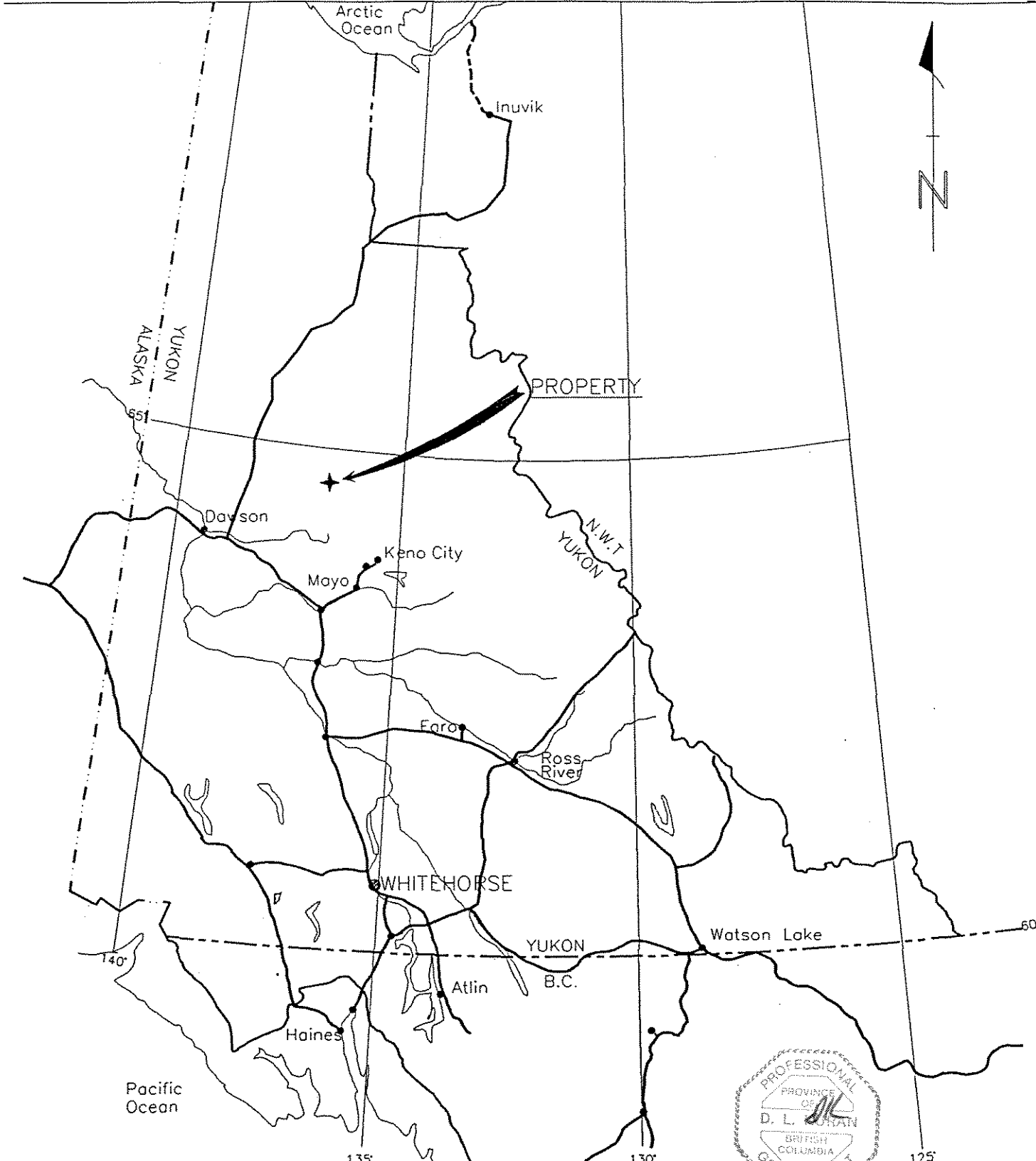
The property can only be accessed by helicopter. Flying time from Dawson City is approximately 0.6 hours but a Dempster Highway maintenance yard, located 70 km from the Dempster Highway turnoff, is within 25 km of the property and can be used as a staging point to airlift equipment into the Heidi claims.

### **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

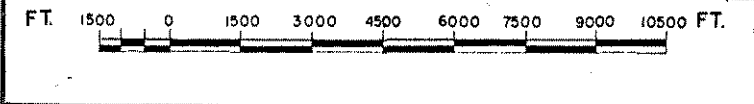
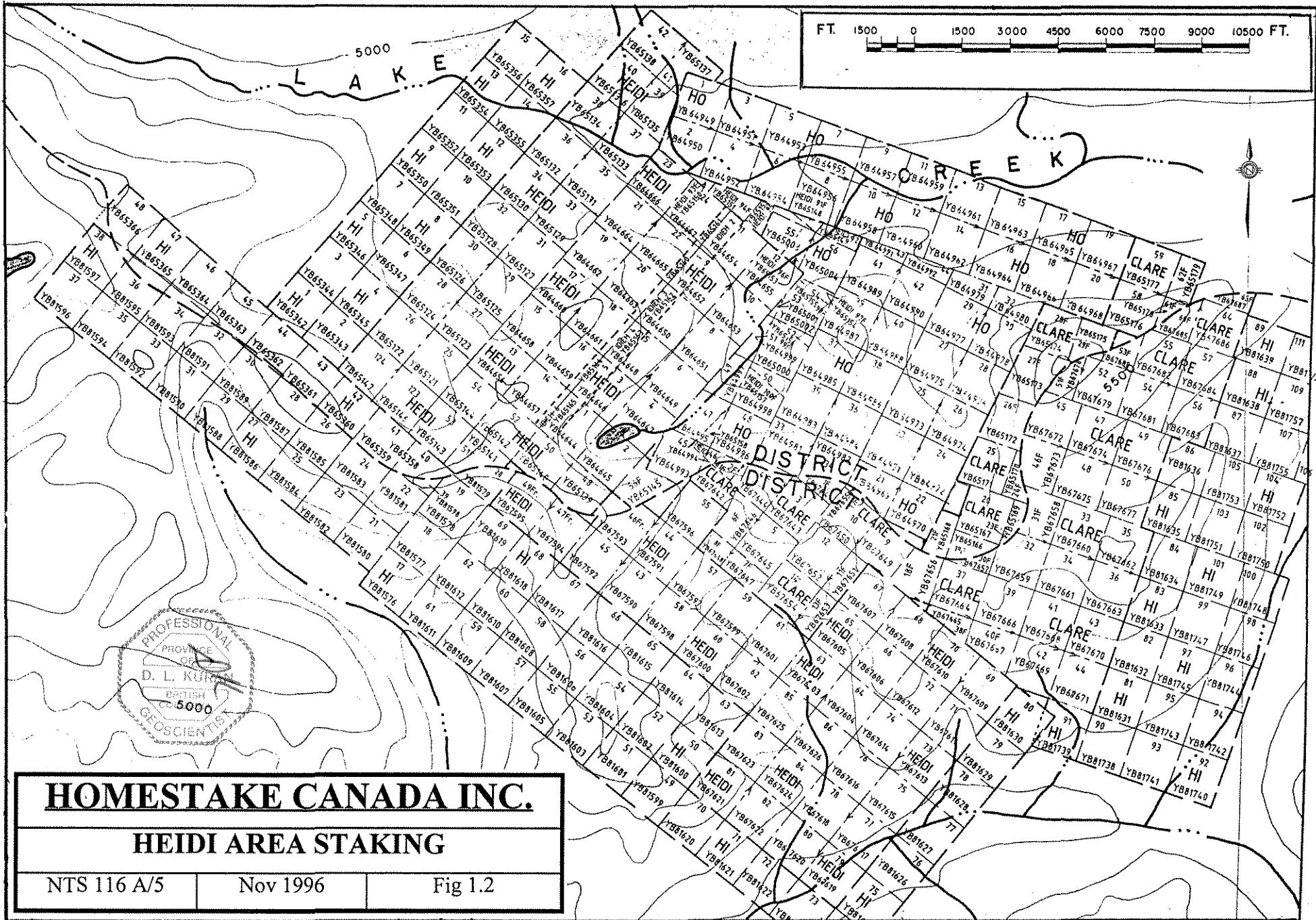
All the Heidi claims staked by Homestake Canada Inc. have been officially granted by the Dawson Mining Recorder.

**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



### **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 consists 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 characterizes 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 consists 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.

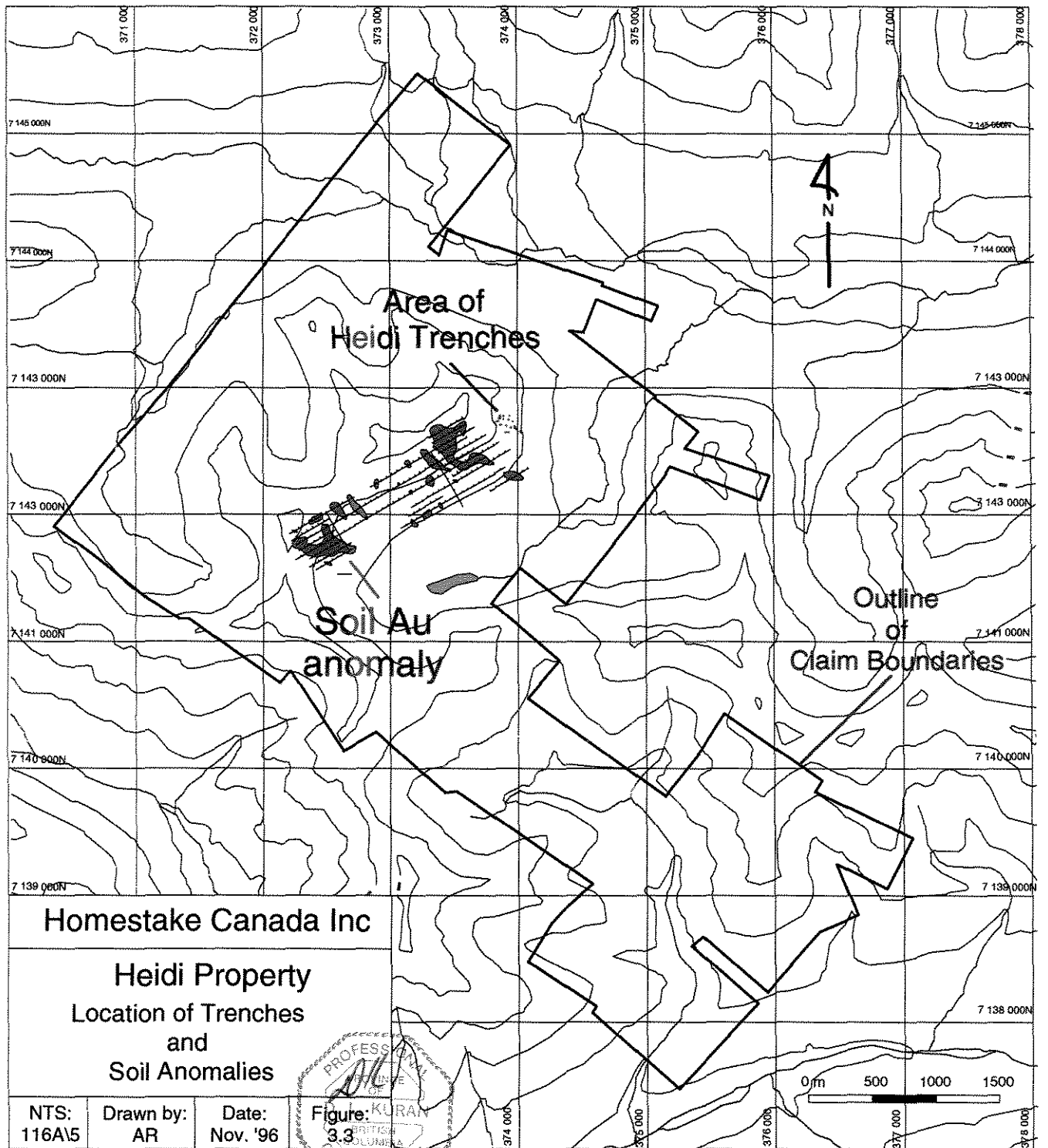
The mineralization is again hosted in the thick package of coarse calcareous sandstone and in vertical, north-south striking veins of pyrite, arsenopyrite and jamesonite. The vein hosted arsenopyrite is commonly developed into large euhedral crystals. Matrix replacement is predominantly with pyrite and 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.

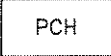
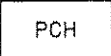




Trench #3 is located within shale and dirty limestone units which strike 108/55. The shale unit is altered to a bleached yellow-white color and is characterized by weathered out pyrite casts. The limestone unit displays heavy arsenopyrite/pyrite replacement, similar to Trench #2 and Trench #4.

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.



## Hyland Group

|   |                              |
|---|------------------------------|
|    | Narchilla Formation          |
|    | Yusezu Formation (undivided) |
|    | Dirty Limestone              |
|    | Quartzite                    |
|    | Intrusive                    |
|  | Calcareous Grit              |

## Symbols





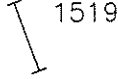


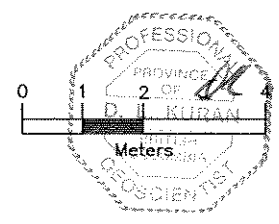
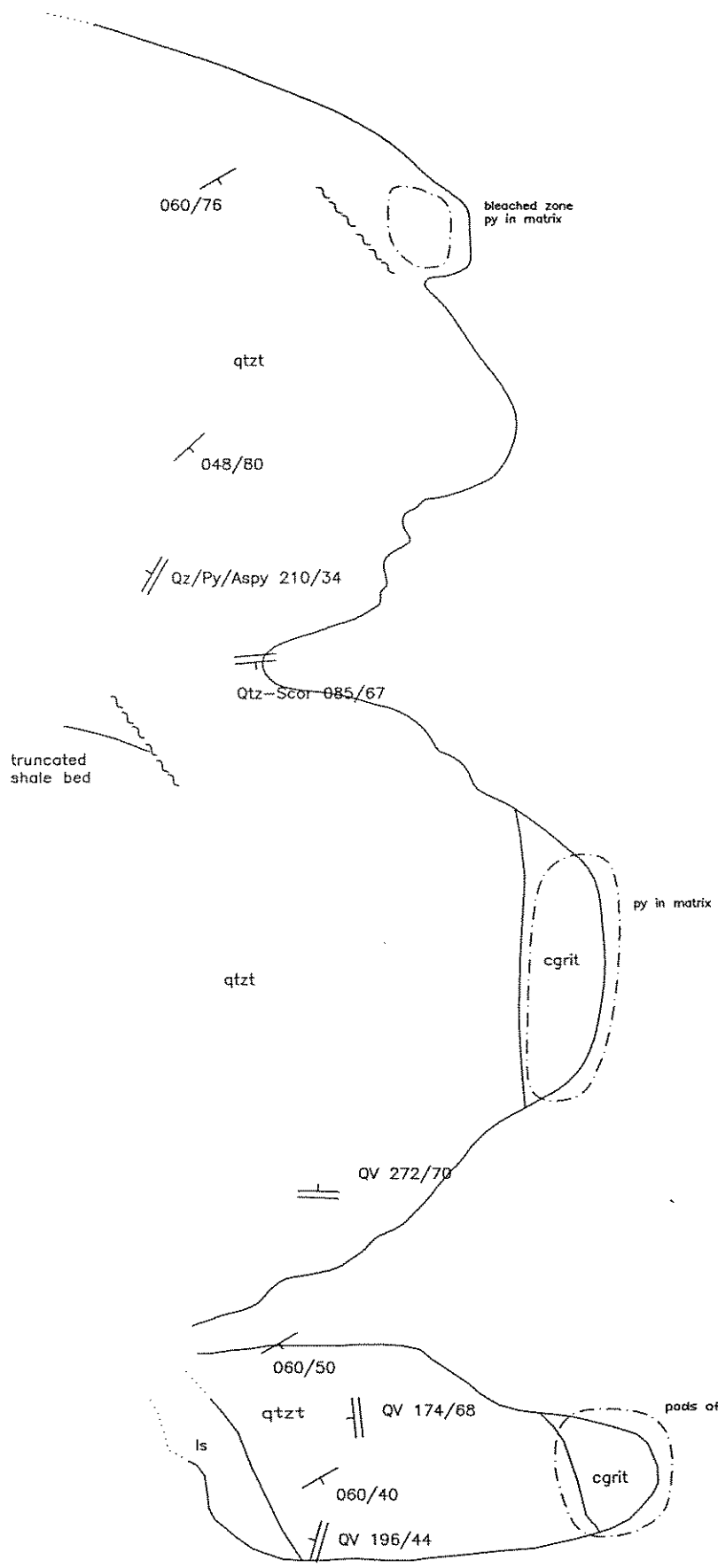
|   |  |
|---|--|
|    | Geologic Contact: known, inferred          |
|    | Showing                                    |
|    | Mineralized Area of Trench                 |
|    | Bedding, Vertical Bedding with measurement |
|  | Chip Sample and Number                     |
|  | Fault                                      |
|  | Fold – anticline, syncline                 |

Figure 3.3a – Legend

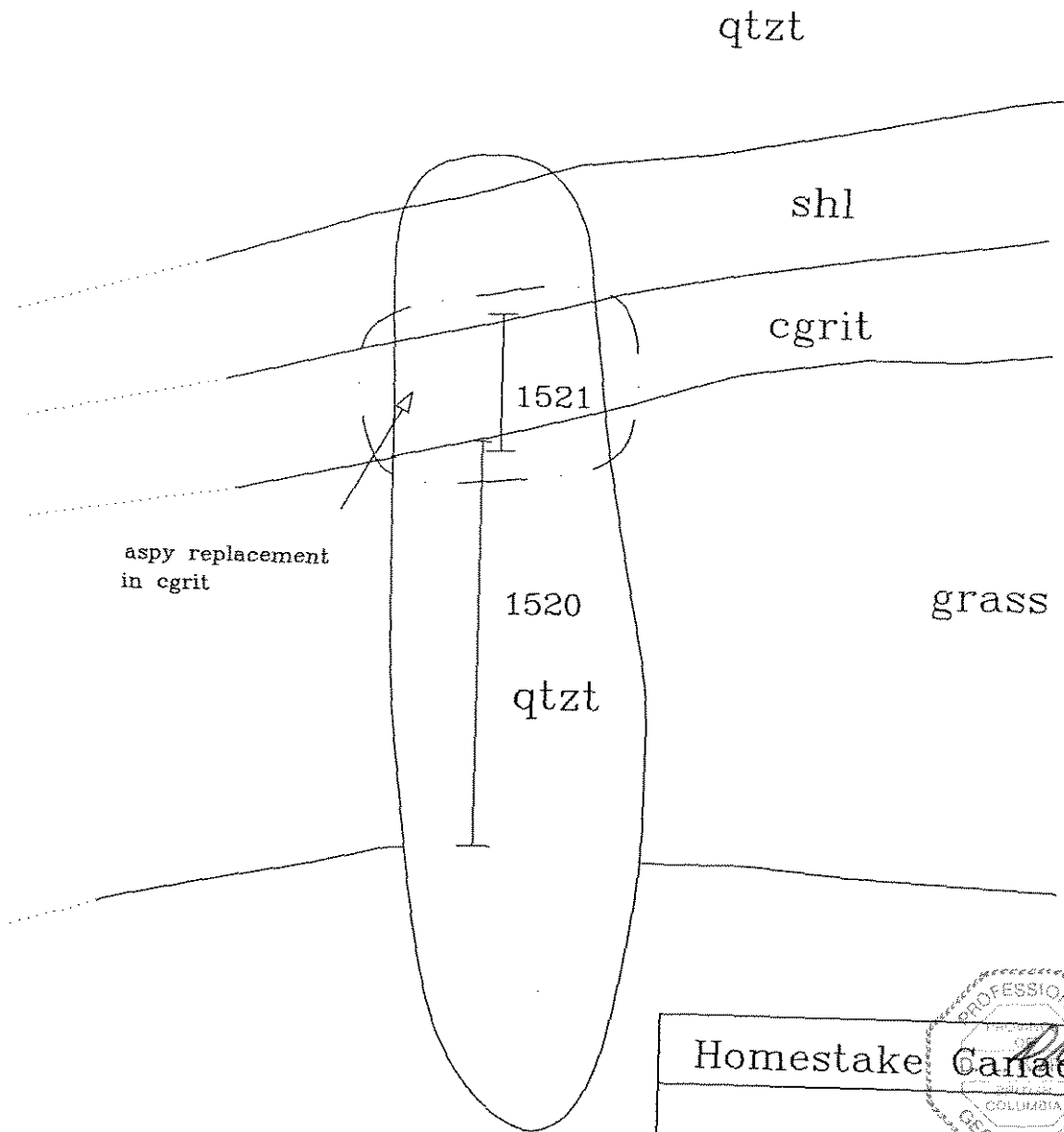
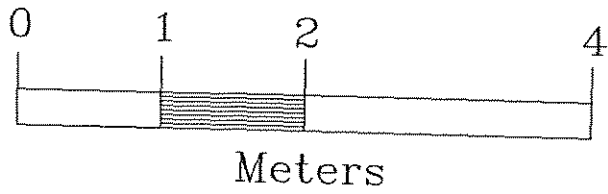


**TABLE 5.1 1996 TRENCH SAMPLING RESULTS**

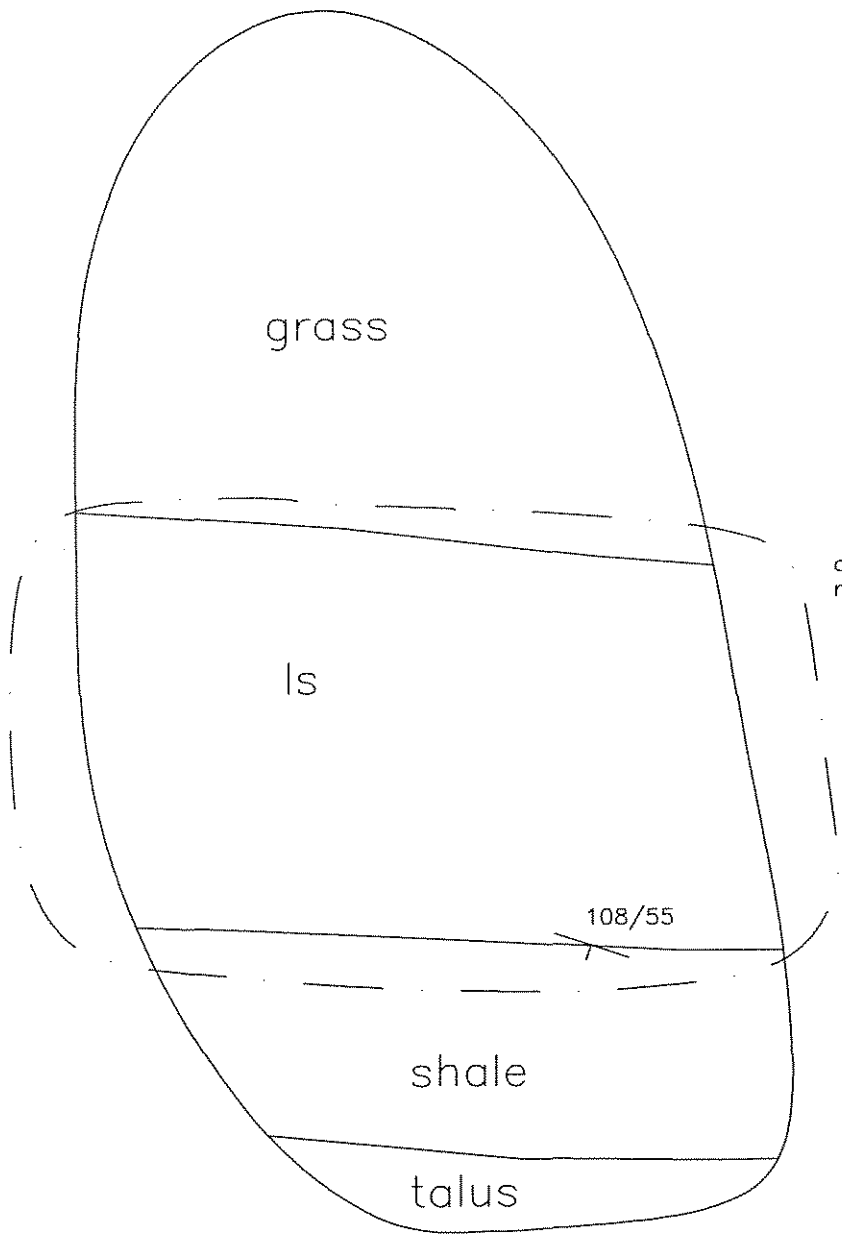
| SAMPLE SITE       | SAMPLE # | Au (ppb) | As (ppm) | Sb (ppm) | Bi (ppm) |
|-------------------|----------|----------|----------|----------|----------|
| LOWERMOST SHOWING | 1497     | 49       | 1824     | 113      | 6        |
|                   | 1498     | 660      | 5.7%     | 645      | 132      |
|                   | 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<br>Trench 1 |                         |          |          |
| NTS: 116A/5               | Drawn By: M. Papageorge | Nov. '96 | Fig. 3.4 |

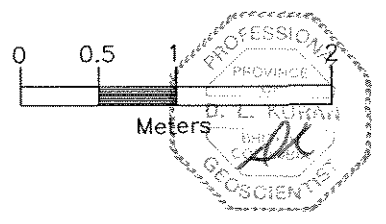


|                           |                           |                   |
|---------------------------|---------------------------|-------------------|
|                           |                           |                   |
|                           |                           |                   |
| Heidi Geology<br>Trench 2 |                           |                   |
| NTS: 118A/5               | Drawn By: Mike Papageorge | Nov. '96 Fig. 3.5 |



aspy/py  
replacement

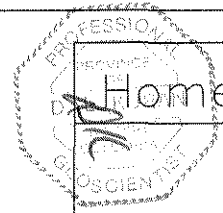
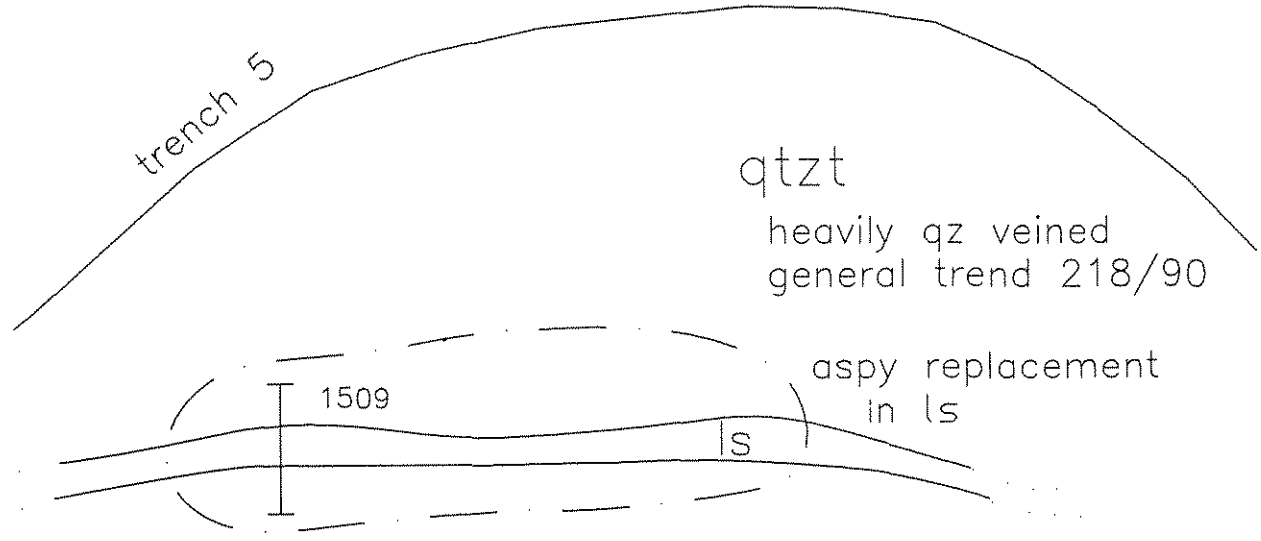
108/55



Homestake Canada Inc.  
Heidi Geology  
Trench 3

————— 280 Az. —————>

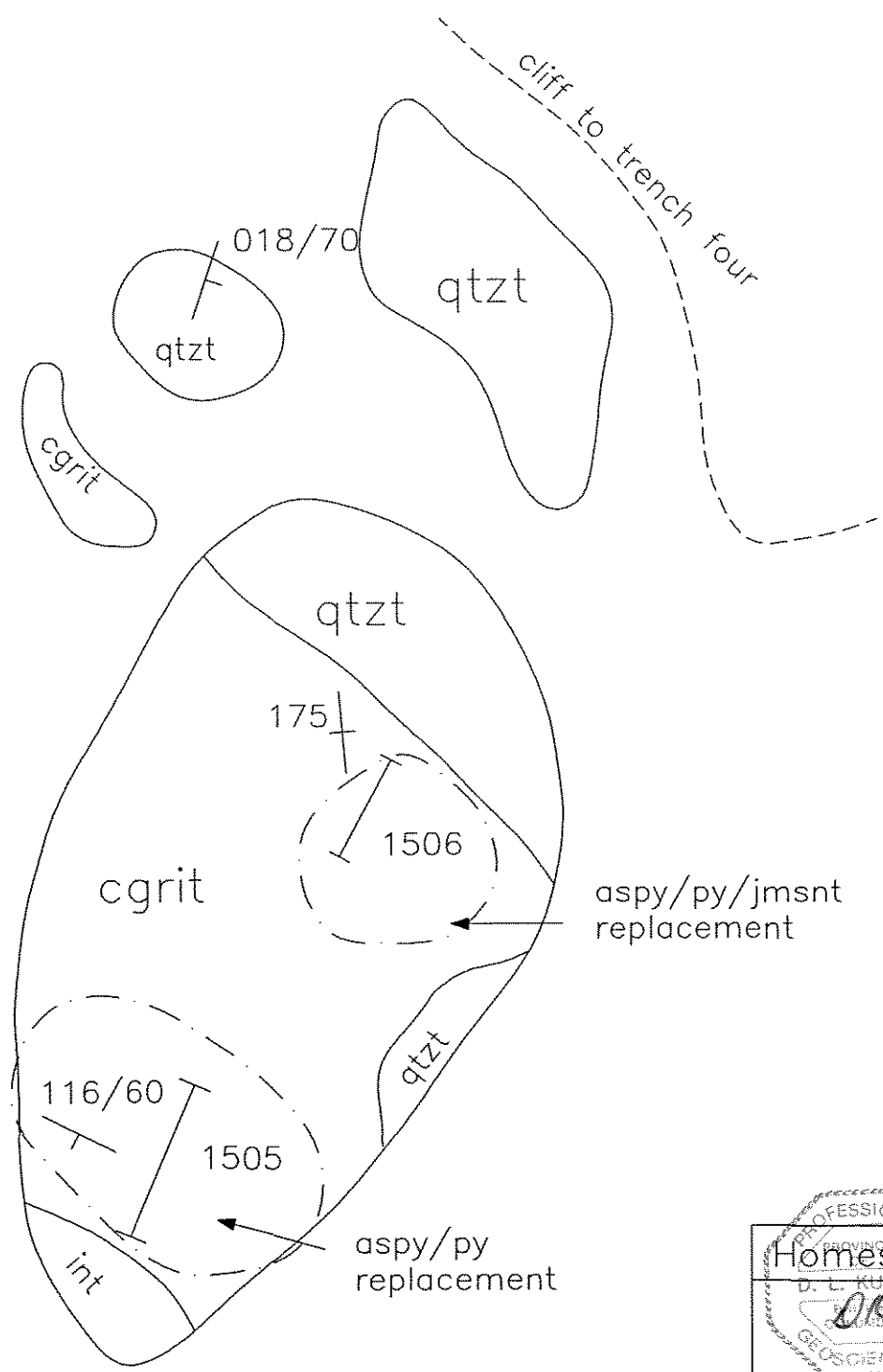
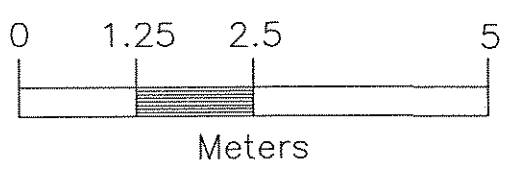
18m



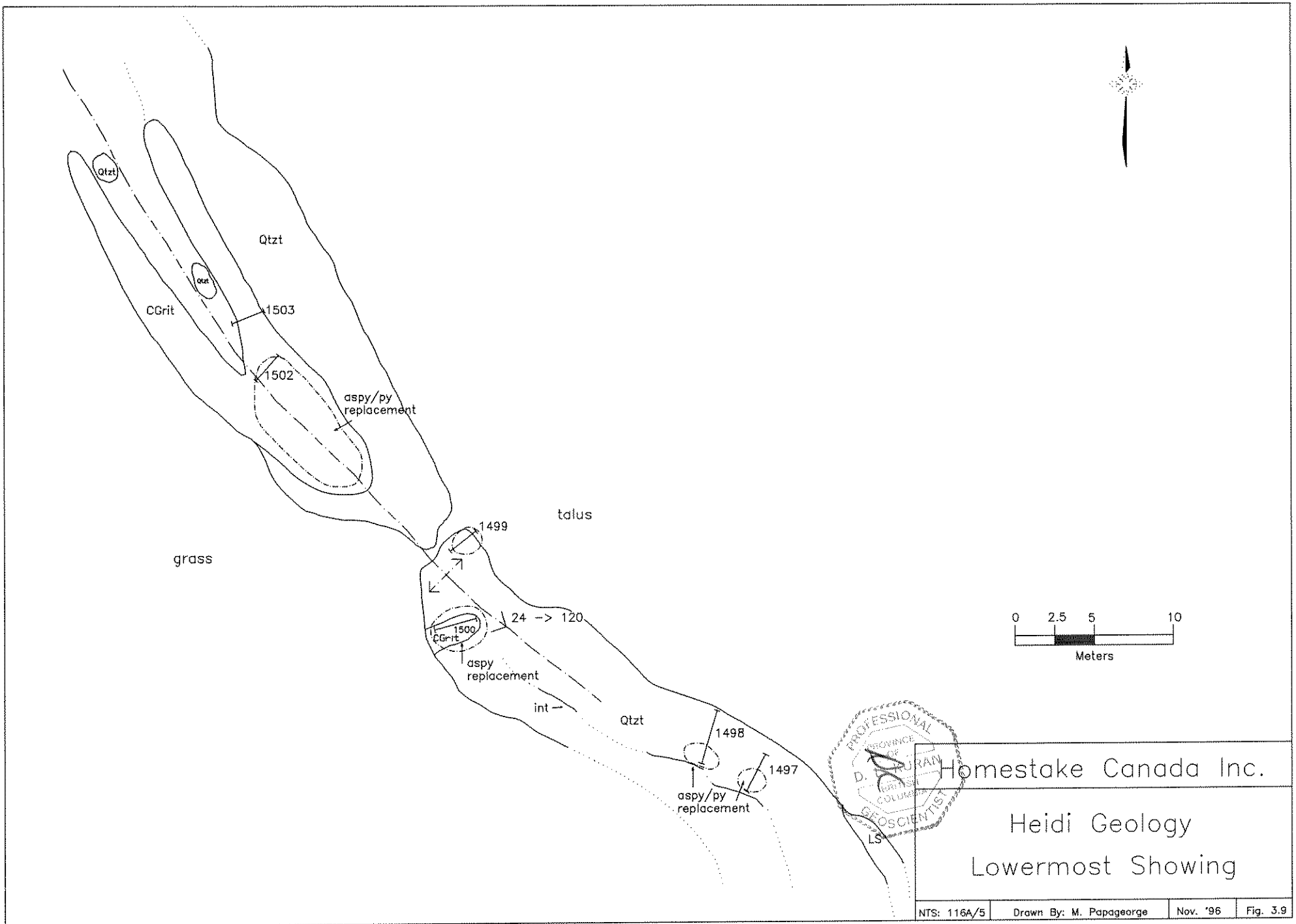
Homestake Canada Inc.

Heidi Geology

Trench 4



|          |                       |
|----------|-----------------------|
|          | Homestake Canada Inc. |
|          | Heidi Geology         |
| Trench 5 |                       |



## **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.

## 7.0 REFERENCES

Abbott, J.G., 1993. Revised stratigraphy and new exploration targets in the Hart River area, southeastern Yukon; in Yukon Exploration and Geology, 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

Doherty, R.A., 1995. Assessment Report on the 1995 Trenching Program on the Heidi Claims. Aurum Geological Consultants Inc. September 16-27, 1995.

Gordey, S.P., and Anderson, R.G., 1993. Evolution of the northern Cordilleran miogeosyncline, Nahani map area, Yukon and Northwest Territories, Geological Survey of Canada, Memoir 428.

Green, L.H., 1972 Geology of the Nash Creek, Larsen Creek, and Dawson map areas, Yukon Territory; Geological Survey of Canada, Memoir 364.

Mortensen, J.K. and Thompson, R.I., 1990. A U-Pb zircon-baddeleyite age for a differentiated mafic sill in the Ogilvie Mountains, west-central Yukon Territory. In Radiogenic Age and Isotopic Studies: Report 3, Geological Survey of Canada, Paper 89-2, p. 23-38.

Murphy, D.C. and Heon, D., 1994. Geological overview of Sprague Creek map area, western Selwyn Basin. In: Yukon Exploration and Geology 1993; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 29-46.

Sinclair, A.J., Wynne-Edwards, H.R., and Sutherland Brown, A., 1978. An analysis of distribution of mineral occurrences in British Columbia; British Columbia Ministry of Energy, Mines and Petroleum Resources, Bulletin 68, 125 p.

Tempelman-Kluit, D.J., 1980: Geology and Mineral Deposits of Southern Yukon. In: Indian and Northern Affairs Canada, Yukon Geology and Exploration., 1979-1980. p.7-31.

## 8.0 : STATEMENT OF COSTS

### 8.1 : HEIDI PROPERTY - JANUARY 1996 TO OCTOBER 1996

| <u>DESCRIPTION</u>    |                        | <u>NET(\$)</u> |          |
|-----------------------|------------------------|----------------|----------|
| <u>1.0 SALARIES</u>   | (IN-HOUSE)             |                |          |
|                       | Technical              | 375.00         |          |
|                       | Support                | 2362.50        |          |
|                       | Seasonal               | 39,592.50      |          |
|                       | Subtotal               |                | 42330.00 |
| <u>1.1 FEES</u>       | (CONSULTANTS)          |                |          |
|                       | Geological             | 5620.50        |          |
|                       | Subtotal               |                | 5620.50  |
| <u>2.0 GEOPHYSICS</u> |                        |                |          |
|                       | Ground                 | 0              |          |
|                       | Airborne               | 0              |          |
|                       | Remote Sensing         | 0              |          |
|                       | Subtotal               |                | 0        |
| <u>3.0 DRILLING</u>   |                        |                |          |
|                       | Surface                | 0              |          |
|                       | Mob/Demob              | 0              |          |
|                       | Fuel                   | 0              |          |
|                       | Supplies               | 0              |          |
|                       | Subtotal               |                | 0        |
| <u>4.0 ANALYSIS</u>   | (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 rental 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/maintenance/repair/gas | 449.58   |          |
| Helicopter                               | 32677.50 |          |
| Helicopter Fuel                          | 4910.00  |          |
| Misc. Flights                            | 0        |          |
| Subtotal                                 |          | 39938.46 |

11.0 SUPPORT ACTIVITIES

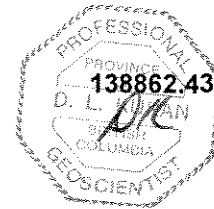
|                         |         |         |
|-------------------------|---------|---------|
| Communications          | 5458.42 |         |
| Maps/publications/photo | 1854.85 |         |
| Drafting                | 0       |         |
| Office supplies         | 92.38   |         |
| Freight/shipping        | 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      |        |
| Miscellaneous A&G costs                     | 0      |        |
| Subtotal                                    |        | 976.04 |

TOTAL

138862.43



## 8.0 STATEMENT OF COSTS

### 8.2 : HEIDI 13 - 24 CLAIMS - MAYO MINING DISTRICT

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

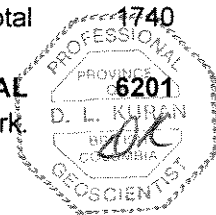
| <u>DESCRIPTION</u>                               | <u>AMOUNT</u> | <u>RATE (\$)</u> | <u>NET(\$)</u> |
|--|---------------|------------------|----------------|
| <b><u>1.0 SALARIES (IN-HOUSE)</u></b>            |               |                  |                |
| Dominic Bordin - Project Geologist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

**TOTAL**

1740

6201

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



## 8.0 STATEMENT OF COSTS

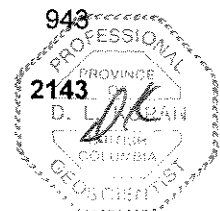
### 8.3 - HEIDI 25 - 40 CLAIMS :MAYO MINING DISTRICT

Field Work Completed July 22, August 10.

Office Work Completed September 13

| <u>DESCRIPTION</u>                       | <u>AMOUNT</u> | <u>RATE (\$)</u> | <u>NET(\$)</u> |
|--|---------------|------------------|----------------|
| <b><u>1.0 SALARIES (IN-HOUSE)</u></b>    |               |                  |                |
| 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            |
| <b><u>2.0 CONSULTANTS</u></b>            |               |                  |                |
| Henry Marsden -Consulting Geologist      | 1 day         | \$320            | 320            |
|  |               |                  | Subtotal       |
|  |               |                  | 320            |
| <b><u>3.0 ANALYSIS</u></b>               |               |                  |                |
| Rock / Soil Sample Assay                 | 7             | \$18.50          | 130            |
|  |               |                  | Subtotal       |
|  |               |                  | 130            |
| <b><u>4.0 FIELD/CAMP CONSUMABLES</u></b> |               |                  |                |
| Field Supplies And Camp Costs            | 1 day         | \$70.00          | 70             |
|  |               |                  | Subtotal       |
|  |               |                  | 70             |
| <b><u>5.0 TRANSPORTATION</u></b>         |               |                  |                |
| -helicopter                              | 1.3 hours     | \$725            | 943            |
|  |               |                  | Subtotal       |
|  |               |                  | 943            |
|  |               |                  | <b>TOTAL</b>   |
|  |               |                  | <b>2143</b>    |

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



## 8.0 STATEMENT OF COSTS

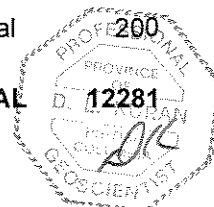
### 8.4-HEIDI 43-47,49,55, 57 - 86 CLAIMS -DAWSON MINING DISTRICT

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

Office Work Completed September 16-20, 1996

| <u>DESCRIPTION</u>                       | <u>AMOUNT</u> | <u>RATE (\$)</u> | <u>NET(\$)</u> |
|--|---------------|------------------|----------------|
| <b><u>1.0 SALARIES (IN-HOUSE)</u></b>    |               |                  |                |
| 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           |
| <b><u>2.0 ANALYSIS</u></b>               |               |                  |                |
| Rock / Soil Sample Assay                 | 64            | \$18.50          | 1184           |
|  |               |                  | Subtotal       |
|  |               |                  | 1184           |
| <b><u>3.0 FIELD/CAMP CONSUMABLES</u></b> |               |                  |                |
| Field Supplies And Camp Costs            | 10 days       | \$70.00          | 700            |
|  |               |                  | Subtotal       |
|  |               |                  | 700            |
| <b><u>4.0 TRANSPORTATION</u></b>         |               |                  |                |
| Helicopter                               | 8.1 hours     | \$725            | 5872           |
|  |               |                  | Subtotal       |
|  |               |                  | 5872           |
| <b><u>5.0 SUPPORT ACTIVITIES</u></b>     |               |                  |                |
| Communications                           |               |                  | 100            |
| Freight/shipping                         |               |                  | 100            |
|  |               |                  | Subtotal       |
|  |               |                  | 200            |
|  |               |                  | <b>TOTAL</b>   |
|  |               |                  | <b>12281</b>   |

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.

A handwritten signature in black ink, appearing to read "Dominic Bordin". The signature is fluid and cursive, with a large initial 'D' and a long, sweeping underline.

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.

A handwritten signature in black ink, appearing to read 'Adrienne Ross', written in a cursive style.

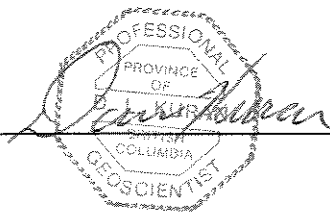
Adrienne Ross

## 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 employed 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 *14* day of December, 1996.



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

**APPENDIX 1**

**SAMPLE DESCRIPTIONS AND LOCATIONS**

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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-asy 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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**Sample:** 1098                      **Location:** Heidi                      **Northing:** 7,139,560  
**Sample type:** soil                      **Length:**                      **Easting:** 376,760

**Description:**

Black to dark brown soil taken from 5 to 10 cm depth on a 15 deg slope adjacent to grit o/c. This sample was taken from the underside of alpine moss growing on the talus and is much more organic looking than previous soils.

**Sample:** 1099                      **Location:** Heidi                      **Northing:** 7,139,250  
**Sample type:** soil                      **Length:**                      **Easting:** 376,770

**Description:**

Brown soil taken at 30 - 50 cm depth on 30 deg alpine covered slope beneath moss horizon and from between boulders. Definitely beneath organic soil profile. Rock type in hole is grit with some Fe-cb or limonite staining in matrix.

**Sample:** 1100                      **Location:** Heidi                      **Northing:** 7,139,160  
**Sample type:** soil                      **Length:**                      **Easting:** 376,730

**Description:**

Brown soil taken from 30 - 50 cm depth on a 45 deg slope. Shale in hole. Steep hill overgrown with buck brush and alpine mosses. 150 m south of 1099.

**Sample:** 1101                      **Location:** Heidi                      **Northing:** 7,139,040  
**Sample type:** soil                      **Length:**                      **Easting:** 376,690

**Description:**

Brown soil taken from 30 - 50 cm depth on a 30 deg slope. Minor shale talus in soil hole. Sample taken on alpine and buck brush covered slope. Sampled beneath organic horizon. Location: 150 m from 1100.

**Sample:** 1102                      **Location:** Heidi                      **Northing:** 7,139,880  
**Sample type:** soil                      **Length:**                      **Easting:** 376,640

**Description:**

Brown soil taken from 30-50 cm depth on a 30 deg slope, beneath organic cover. Grit, sst, and shale talus in soil hole. Sample taken adjacent to grit o/c.

**Sample:** 1103                      **Location:** Heidi                      **Northing:** 7,139,250  
**Sample type:** soil                      **Length:**                      **Easting:** 376,595

**Description:**

Brown soil taken from 30 - 50 cm depth on a 25 deg slope. Sample taken beneath alpine cover. Sandstone talus in soil hole.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.



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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2956      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,139,600 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 375,535    |
| <b>Description:</b>      |                                    |                            |
| Soil in draw at 50 m.    |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2957      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,139,635 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 375,500    |
| <b>Description:</b>      |                                    |                            |
| Soil at 100 m.           |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2958      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,139,675 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 375,400    |
| <b>Description:</b>      |                                    |                            |
| Soil at 200 m.           |                                    |                            |

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|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2959      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,139,780 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 375,290    |
| <b>Description:</b>      |                                    |                            |
| Soil at 350 m. Mossy.    |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2960      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,139,840 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 375,205    |
| <b>Description:</b>      |                                    |                            |
| Soil at 450 m.           |                                    |                            |

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

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## Heidi Samples: Appendix I

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**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.

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## Heidi Samples: Appendix I

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|---------------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2968             | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,200 |
| <b>Sample type:</b> soil        | <b>Length:</b>                     | <b>Easting:</b> 374,085    |
| <b>Description:</b><br>+ 200 m. |                                    |                            |

|  |                                    |                            |
|--|------------------------------------|----------------------------|
| <b>Sample:</b> 2969                              | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,110 |
| <b>Sample type:</b> soil                         | <b>Length:</b>                     | <b>Easting:</b> 374,035    |
| <b>Description:</b><br>Corner in contour +300 m. |                                    |                            |

|                                 |                                    |                            |
|---------------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2970             | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,095 |
| <b>Sample type:</b> soil        | <b>Length:</b>                     | <b>Easting:</b> 373,930    |
| <b>Description:</b><br>+ 400 m. |                                    |                            |

|                                 |                                    |                            |
|---------------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2971             | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,080 |
| <b>Sample type:</b> soil        | <b>Length:</b>                     | <b>Easting:</b> 373,835    |
| <b>Description:</b><br>+ 500 m. |                                    |                            |

|                                 |                                    |                            |
|---------------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2972             | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,065 |
| <b>Sample type:</b> soil        | <b>Length:</b>                     | <b>Easting:</b> 373,735    |
| <b>Description:</b><br>+ 600 m. |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2973      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,050 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,635    |
| <b>Description:</b>      |                                    |                            |

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## Heidi Samples: Appendix I

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| <b>Sample:</b> 2974      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,045 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,535    |
| <b>Description:</b>      |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2975      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,030 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,440    |
| <b>Description:</b>      |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2976      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,460 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,900    |
| <b>Description:</b>      |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2977      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,500 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,780    |
| <b>Description:</b>      |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2978      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,530 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,660    |
| <b>Description:</b>      |                                    |                            |

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| <b>Sample:</b> 2979      | <b>Location:</b> Backside of Heidi | <b>Northing:</b> 7,140,580 |
| <b>Sample type:</b> soil | <b>Length:</b>                     | <b>Easting:</b> 373,465    |
| <b>Description:</b>      |                                    |                            |

# Heidi Samples: Appendix I

**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

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## Heidi Samples: Appendix I

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

|                                 |                                |                            |
|---------------------------------|--------------------------------|----------------------------|
| <b>Sample:</b> 2987             | <b>Location:</b> Heidi E Ridge | <b>Northing:</b> 7,142,460 |
| <b>Sample type:</b> soil        | <b>Length:</b>                 | <b>Easting:</b> 375,330    |
| <b>Description:</b>             |                                |                            |
| Soil. Front side of East Ridge. |                                |                            |

|                           |   |                            |
|---------------------------|---|----------------------------|
| <b>Sample:</b> CL1: 0+00S | <b>Location:</b> Heidi, Contour Soil line | <b>Northing:</b> 7,142,810 |
| <b>Sample type:</b> soil  | <b>Length:</b>                            | <b>Easting:</b> 372,560    |
| <b>Description:</b>       |   |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL1: 1+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,055 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 372,540    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL1: 2+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,990 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 372,520    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL1: 3+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,920 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 372,490    |
| <b>Description:</b>       |                                      |                            |

## Heidi Samples: Appendix I

**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:**

## Heidi Samples: Appendix I

**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:**

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## Heidi Samples: Appendix I

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|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL3: 6+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,440 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,785    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL3: 7+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,345 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,770    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL3: 8+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,240 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,770    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL3: 9+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,140 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,760    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL3:10+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,040 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,750    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL4: 0+00W | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,810 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 374,180    |
| <b>Description:</b>       |                                      |                            |

## Heidi Samples: Appendix I

**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:**

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## Heidi Samples: Appendix I

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**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:**

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## Heidi Samples: Appendix I

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**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:**

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## Heidi Samples: Appendix I

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|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 2+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,143,100 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 373,300    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 3+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,143,020 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 373,280    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 4+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,980 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 373,180    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 5+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,955 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 373,090    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 6+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,940 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 372,990    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL6: 6+50S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,142,940 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 372,940    |
| <b>Description:</b>       |                                      |                            |

## Heidi Samples: Appendix I

**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:**

## Heidi Samples: Appendix I

**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:**

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## Heidi Samples: Appendix I

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**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:**

## Heidi Samples: Appendix I

**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:**

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## Heidi Samples: Appendix I

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|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8: 5+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,940 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,740    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8: 6+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,880 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,860    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8: 7+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,830 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,900    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8: 8+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,690 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,950    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8: 9+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,590 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,960    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8:10+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,510 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,925    |
| <b>Description:</b>       |                                      |                            |

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## Heidi Samples: Appendix I

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**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:**

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## Heidi Samples: Appendix I

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|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8:18+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,340 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,175    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8:19+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,350 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 371,070    |
| <b>Description:</b>       |                                      |                            |

|                           |                                      |                            |
|---------------------------|--------------------------------------|----------------------------|
| <b>Sample:</b> CL8:20+00S | <b>Location:</b> Heidi, Contour soil | <b>Northing:</b> 7,141,360 |
| <b>Sample type:</b> soil  | <b>Length:</b>                       | <b>Easting:</b> 370,970    |
| <b>Description:</b>       |                                      |                            |

***APPENDIX II***

***ASSAY CERTIFICATES***



CERTIFICATE OF ANALYSIS  
iPL 96K1221

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

Homestake Canada Inc  
Out: Nov 26, 1996 Project: Heidi  
In : Nov 26, 1996 Shipper: Jeff Lewis  
PO#: Shipment: ID=C034311

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

Msg: Compilation of various jobs

Document Distribution

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

Analytical Summary

| ## | Code | Met    | Title           | Limit | Limit | Units   | Description            | Element    | ## |
|----|------|--------|-----------------|-------|-------|---------|------------------------|------------|----|
|    |      |        |                 | Low   | High  |         |                        |            |    |
| 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  
DL=Download 3D=3-1/2 Disk 5D=5-1/4 Disk BT=BBS Type

FX=Fax(1=Yes 0=No)  
BL=BBS(1=Yes 0=No)

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



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7808

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

Page 1 of 12  
[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 | Tl % | 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  | 9600689 | 6      | ---     | 0.1    | 19     | 34     | 76     | 88       | 6      | <      | 1      | <      | <      | <      | 10     | 21     | 68     | <     | 21     | 38    | 428    | 20     | 9      | <      | 1      | 0.02 | 1.30 |
| 1+0JN 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    | 1.2x1858 | <      | <      | 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  | 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 9999 999 99 1.00 9.99  
 Method Spec FAAA FAGrav 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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 PulP

iPL: 96K1221

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

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Section 2 of 2  
Certified BC Assayer: David Chiu

| Sample Name   | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|---------------|------|------|------|------|------|------|
| 2511          | 0.23 | 4.07 | 0.59 | 0.13 | 0.02 | 0.05 |
| 2513          | 0.26 | 3.93 | 0.43 | 0.14 | 0.02 | 0.05 |
| 2507          | 0.04 | 1.52 | 0.19 | 0.07 | 0.02 | 0.01 |
| 2512          | 0.23 | 2.38 | 0.33 | 0.20 | 0.03 | 0.01 |
| 1054          | 0.22 | 3.47 | 0.38 | 0.09 | 0.01 | 0.05 |
| 0+00N 3+00E   | 0.12 | 2.52 | 0.33 | 0.04 | 0.02 | 0.05 |
| 0+00N 3+50E   | 0.11 | 2.78 | 0.33 | 0.04 | 0.01 | 0.05 |
| 0+00N 4+00E   | 0.11 | 4.11 | 0.30 | 0.06 | 0.01 | 0.06 |
| 0+00N 4+50E   | 0.21 | 2.99 | 0.44 | 0.07 | 0.02 | 0.06 |
| 0+00N 5+00E   | 0.16 | 4.18 | 0.31 | 0.08 | 0.02 | 0.09 |
| 0+00N 5+50E   | 0.15 | 3.68 | 0.48 | 0.08 | 0.02 | 0.09 |
| 0+00N 6+00E   | 0.27 | 3.53 | 0.47 | 0.09 | 0.02 | 0.08 |
| 1+00N 0+00 BL | 0.06 | 2.79 | 0.31 | 0.06 | 0.01 | 0.06 |
| 1+00N 0+50E   | 0.47 | 3.41 | 0.47 | 0.08 | 0.02 | 0.11 |
| 1+00N 1+00E   | 0.13 | 2.98 | 0.36 | 0.06 | 0.01 | 0.07 |
| 1+00N 1+50E   | 0.15 | 3.60 | 0.70 | 0.11 | 0.02 | 0.07 |
| 1+00N 2+00E   | 0.26 | 2.79 | 0.30 | 0.08 | 0.02 | 0.08 |
| 1+00N 2+50E   | 0.33 | 3.04 | 0.35 | 0.06 | 0.01 | 0.07 |
| 1+00N 3+00E   | 0.34 | 2.97 | 0.39 | 0.07 | 0.02 | 0.09 |
| 1+00N 3+50E   | 0.17 | 3.00 | 0.42 | 0.07 | 0.02 | 0.07 |
| 1+00N 4+00E   | 0.10 | 3.03 | 0.44 | 0.04 | 0.02 | 0.05 |
| 1+00N 4+50E   | 0.15 | 3.62 | 0.34 | 0.10 | 0.02 | 0.10 |
| 1+00N 0+50W   | 0.11 | 3.05 | 0.36 | 0.07 | 0.02 | 0.08 |
| 1+00N 1+00W   | 0.07 | 2.65 | 0.32 | 0.06 | 0.01 | 0.07 |
| 1+00N 1+50W   | 0.72 | 2.77 | 0.40 | 0.07 | 0.02 | 0.10 |
| 1+00N 2+00W   | 0.04 | 2.63 | 0.14 | 0.04 | 0.01 | 0.06 |
| 1+00N 2+50W   | 0.13 | 6.44 | 0.23 | 0.05 | 0.01 | 0.06 |
| 1+00N 3+00W   | 0.17 | 4.20 | 0.21 | 0.05 | 0.01 | 0.08 |
| 2+00N 0+00 BL | 0.09 | 2.93 | 0.24 | 0.06 | 0.02 | 0.07 |
| 2+00N 0+50E   | 0.14 | 3.27 | 0.36 | 0.06 | 0.02 | 0.09 |
| 2+00N 1+00E   | 0.12 | 3.90 | 0.29 | 0.08 | 0.02 | 0.09 |
| 2+00N 1+50E   | 0.08 | 2.88 | 0.31 | 0.06 | 0.02 | 0.05 |
| 2+00N 2+00E   | 0.07 | 3.16 | 0.33 | 0.07 | 0.01 | 0.06 |
| 2+00N 2+50E   | 0.12 | 3.42 | 0.31 | 0.06 | 0.01 | 0.07 |
| 2+00N 3+00E   | 0.07 | 3.33 | 0.27 | 0.07 | 0.01 | 0.08 |
| 2+00N 3+50E   | 0.05 | 3.27 | 0.26 | 0.06 | 0.02 | 0.06 |
| 2+00N 4+00E   | 0.08 | 3.10 | 0.24 | 0.05 | 0.01 | 0.07 |
| 2+00N 4+50E   | 0.14 | 2.89 | 0.22 | 0.06 | 0.01 | 0.08 |
| 2+00N 5+00E   | 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  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 96K1221

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7890

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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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 % |
|---------------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|
| 2+00N 5+50E   | 9600689 | <      | ---     | <      | 17     | 16     | 61     | 31     | <      | <      | 1      | <      | <      | <      | 9      | 20     | 86     | <     | 19     | 33    | 310    | 19     | 18     | 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     | <      | <      | 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      | <      | 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     | <      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 0.03 | 1.55 |
| 3+00N 4+50E   | 9600689 | 16     | ---     | <      | 18     | 28     | 61     | 35     | <      | <      | 1      | <      | <      | <      | 9      | 18     | 71     | <     | 22     | 46    | 423    | 16     | 10     | 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      | <      | 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      | <      | 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     | <      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 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      | <      | 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 99.9 999 999 9999 999 9999 999 9999 9999 9999 9999 999 99 1.00 9.99  
Method Spec FAAM FAGrav 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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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Section 2 of 2  
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  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898





CERTIFICATE OF ANALYSIS

iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

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Section 2 of 2  
 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 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  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
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Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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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 % |
|--------------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|
| 1498         | 9600689 | 660    | --      | 5.7    | 36     | 859    | 30     | 5.7%   | 645    | <      | 3      | <      | 132    | <      | 9      | 8      | <      | <     | 83     | 4     | 35     | 6      | 10     | 4      | <      | <    | 0.21 |
| 1499         | 9600689 | 87     | --      | 0.2    | 23     | 42     | 64     | 1.1%   | 60     | <      | 5      | <      | 4      | 0.4    | 6      | 15     | 67     | <     | 107    | 4     | 91     | 9      | 6      | 3      | <      | <    | 0.31 |
| 1500         | 9600689 | 76     | --      | 0.5    | 20     | 104    | 23     | 5167   | 85     | <      | 2      | <      | 16     | <      | 2      | 7      | 34     | <     | 77     | 4     | 151    | 8      | 20     | 4      | <      | <    | 0.20 |
| 1501         | 9600689 | 351    | --      | 4.2    | 34     | 341    | 17     | 5.3%   | 293    | <      | 7      | <      | 391    | <      | 17     | 7      | <      | <     | 109    | 2     | 25     | 3      | 3      | 3      | <      | <    | 0.14 |
| 1502         | 9600689 | 143    | --      | 0.4    | 36     | 470    | 16     | 9472   | 354    | <      | 3      | <      | 56     | <      | 1      | 5      | 17     | <     | 125    | 2     | 35     | 6      | 6      | 3      | <      | <    | 0.14 |
| 1503         | 9600689 | 41     | --      | 0.4    | 29     | 65     | 10     | 6574   | 41     | <      | 9      | <      | 13     | <      | 3      | 8      | 52     | <     | 167    | 4     | 42     | 9      | 5      | 4      | <      | <    | 0.18 |
| 1504         | 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         | 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         | 9600689 | 39     | --      | 4.8    | 74     | 213    | 10     | 9681   | 139    | <      | 4      | <      | 138    | <      | 3      | 9      | 15     | <     | 142    | 3     | 48     | 3      | 6      | 4      | <      | <    | 0.15 |
| 1507         | 9600689 | 77     | --      | 3.6    | 29     | 356    | 19     | 1.2%   | 238    | <      | 7      | <      | 158    | <      | 2      | 6      | 56     | <     | 138    | 2     | 59     | 6      | 17     | 5      | <      | <    | 0.18 |
| 1508         | 9600689 | 603    | --      | 3.2    | 58     | 1082   | 75     | 8.7%   | 615    | <      | 4      | <      | 308    | <      | 48     | 12     | <      | <     | 45     | 8     | 476    | <      | 54     | 8      | <      | <    | 0.12 |
| 1509         | 9600689 | 496    | --      | 0.6    | 79     | 95     | 7      | 4451   | 58     | <      | 2      | <      | 36     | <      | 1      | 4      | 85     | <     | 28     | 5     | 17     | 30     | 3      | 8      | 1      | <    | 0.47 |
| 1510         | 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         | 9600689 | 833    | --      | 8.1    | 148    | 534    | 3      | 13%    | 486    | <      | 5      | <      | 469    | <      | 41     | 7      | <      | <     | 50     | 7     | 8      | <      | 3      | 8      | <      | <    | 0.11 |
| 1512         | 9600689 | 61     | --      | 0.4    | 110    | 93     | 8      | 5596   | 71     | <      | 2      | <      | 562    | <      | 3      | 6      | 27     | <     | 73     | 4     | 22     | 6      | 3      | 5      | 1      | <    | 0.23 |
| 1513         | 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         | 9600689 | 847    | --      | 1.3    | 35     | 85     | 5      | 2.0%   | 92     | <      | 3      | <      | 62     | <      | 8      | 7      | 14     | <     | 106    | 2     | 45     | 6      | 2      | 5      | <      | <    | 0.22 |
| 1515         | 9600689 | 65     | --      | 0.5    | 42     | 69     | 7      | 2302   | 39     | <      | 6      | <      | 21     | <      | 5      | 10     | 40     | <     | 120    | 3     | 95     | 5      | 6      | 7      | 1      | <    | 0.28 |
| 1516         | 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         | 9600689 | 47     | --      | 0.2    | 22     | 56     | 26     | 133    | 32     | <      | 7      | <      | <      | <      | 4      | 9      | 52     | <     | 143    | 3     | 258    | 11     | 13     | 6      | 1      | <    | 0.24 |
| 1518         | 9600689 | 19     | --      | <      | 9      | 14     | 12     | 68     | 14     | <      | 3      | <      | <      | <      | 8      | 15     | 43     | <     | 109    | 6     | 364    | 15     | 9      | 5      | 1      | <    | 0.42 |
| 1519         | 9600689 | 229    | --      | 0.2    | 17     | 105    | 11     | 72     | 63     | <      | 5      | <      | <      | <      | 6      | 11     | 47     | <     | 98     | 4     | 254    | 20     | 8      | 6      | 1      | <    | 0.35 |
| 1520         | 9600689 | 503    | --      | 30.2   | 26     | 1414   | 4      | 16%    | 950    | <      | 3      | <      | 0.2%   | <      | 3      | 3      | <      | <     | 50     | 6     | 16     | <      | 6      | 8      | <      | <    | 0.17 |
| 1521         | 9600689 | 171    | --      | 6.5    | 134    | 857    | 15     | 9701   | 686    | <      | 6      | <      | 371    | <      | 3      | 10     | 90     | <     | 69     | 9     | 151    | 4      | 45     | 12     | <      | <    | 0.27 |
| 1522         | 9600689 | 21     | --      | 0.2    | 16     | 30     | 15     | 990    | 18     | <      | 3      | <      | 12     | <      | 3      | 14     | 39     | <     | 114    | 4     | 189    | 11     | 30     | 3      | 1      | <    | 0.32 |
| 1523         | 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        | 9600689 | 37     | --      | 0.4    | 9      | 647    | 6      | 507    | 101    | <      | 4      | <      | 215    | <      | 1      | 5      | 35     | <     | 190    | 2     | 28     | 10     | 8      | 6      | <      | <    | 0.17 |
| 00029        | 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        | 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        | 9600689 | 607    | --      | 41.8   | 172    | 14101  | 7638   | 8713   | 4911   | <      | 6      | <      | <      | 0.1m   | 2      | 7      | 49     | <     | 157    | 2     | 64     | 6      | 9      | 4      | <      | <    | 0.17 |
| 00032        | 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        | 9600689 | 71     | --      | 2.2    | 7      | 217    | 25     | 1304   | 141    | <      | 7      | <      | 24     | <      | 1      | 4      | 51     | <     | 167    | 2     | 23     | 14     | 18     | 9      | <      | <    | 0.22 |
| 00034        | 9600689 | 3800   | 3.60    | 1.1    | 96     | 94     | 14     | 13%    | 340    | <      | 2      | <      | 51     | <      | 20     | 5      | <      | <     | 58     | 6     | 24     | <      | 30     | 8      | 3      | <    | 0.19 |
| 00035        | 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        | 9600689 | 324    | --      | 0.5    | 42     | 152    | 3      | 4.2%   | 122    | <      | 4      | <      | 57     | <      | 16     | 6      | <      | <     | 118    | 4     | 18     | 3      | 3      | 3      | <      | <    | 0.14 |
| 00037        | 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  | 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 | 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 | 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 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 9999 999 99 1.00 9.99  
 Method Spec FAAA FAGrav 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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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Section 2 of 2  
Certified BC Assayer: David Chiu

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

—=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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 96K1221

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Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

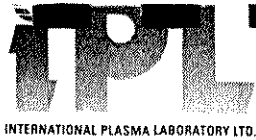
Out: Nov 27, 1996  
In: Nov 26, 1996

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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 | Tl % | 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 9999 999 999 99 1.00 9.99  
Method Spec FAAA FAGrav 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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

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Phone (604) 879-7878  
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Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

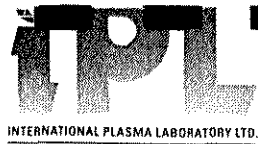
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Section 2 of 2  
Certified BC Assayer: David Chiu

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

---=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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



# CERTIFICATE OF ANALYSIS

## iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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[122111:38:40:69112796]

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 % |
|-------------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|
| 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      | 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 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 9999 999 99 1.00 9.99  
 Method Spec FAAA FAGrav ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Slit P=Pulp U=Undefined m=Estimate/1000 X=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS

iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

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 [122111:38:40:69112796]

Section 2 of 2  
 Certified BC Assayer: David Chiu

| Sample Name | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|-------------|------|------|------|------|------|------|
| CL1 0+00S   | 0.26 | 3.95 | 0.10 | 0.05 | 0.02 | 0.08 |
| CL1 1+00S   | 0.07 | 2.98 | 0.16 | 0.04 | 0.02 | 0.08 |
| CL1 2+00S   | 0.13 | 3.37 | 0.25 | 0.06 | 0.02 | 0.07 |
| CL1 3+00S   | 0.11 | 4.11 | 0.46 | 0.08 | 0.02 | 0.08 |
| CL1 4+00S   | 0.45 | 5.18 | 0.74 | 0.13 | 0.02 | 0.11 |
| CL1 5+00S   | 0.26 | 4.35 | 0.32 | 0.09 | 0.02 | 0.08 |
| CL1 6+00S   | 0.04 | 3.57 | 0.16 | 0.09 | 0.02 | 0.07 |
| CL1 7+00S   | 0.20 | 3.67 | 0.24 | 0.08 | 0.02 | 0.09 |
| CL1 8+00S   | 0.22 | 3.74 | 0.10 | 0.08 | 0.02 | 0.11 |
| CL1 9+00S   | 0.35 | 4.55 | 0.29 | 0.09 | 0.02 | 0.08 |
| CL3 0+00S   | 1.15 | 3.09 | 0.35 | 0.10 | 0.02 | 0.10 |
| CL3 1+00S   | 0.38 | 3.99 | 0.36 | 0.09 | 0.02 | 0.07 |
| CL3 2+00S   | 0.31 | 3.05 | 0.52 | 0.09 | 0.02 | 0.06 |
| CL3 3+00S   | 0.13 | 3.82 | 0.14 | 0.06 | 0.02 | 0.05 |
| CL3 4+00S   | 0.10 | 3.01 | 0.40 | 0.06 | 0.02 | 0.08 |
| CL3 5+00S   | 0.39 | 3.41 | 0.44 | 0.08 | 0.02 | 0.08 |
| CL3 6+00S   | 0.21 | 2.85 | 0.33 | 0.06 | 0.02 | 0.08 |
| CL3 7+00S   | 0.18 | 3.59 | 0.28 | 0.06 | 0.02 | 0.07 |
| CL3 8+00S   | 0.56 | 3.31 | 0.34 | 0.10 | 0.02 | 0.11 |
| CL3 9+00S   | 0.44 | 2.59 | 0.35 | 0.06 | 0.02 | 0.07 |
| CL3 10+00S  | 0.48 | 3.36 | 0.37 | 0.07 | 0.02 | 0.08 |
| CL4 0+00W   | 0.30 | 4.62 | 0.55 | 0.16 | 0.02 | 0.11 |
| CL4 1+00W   | 4.14 | 0.63 | 0.06 | 0.03 | 0.02 | 0.10 |
| CL4 2+00W   | 0.25 | 3.38 | 0.29 | 0.07 | 0.02 | 0.05 |
| CL4 3+00W   | 1.74 | 3.34 | 0.20 | 0.09 | 0.02 | 0.09 |
| CL4 4+00W   | 0.30 | 4.32 | 0.15 | 0.08 | 0.02 | 0.05 |
| CL4 5+00W   | 0.38 | 4.94 | 0.17 | 0.09 | 0.02 | 0.06 |
| CL4 6+00W   | 0.25 | 4.23 | 0.22 | 0.11 | 0.02 | 0.07 |
| CL4 7+00W   | 0.29 | 4.71 | 0.23 | 0.12 | 0.02 | 0.06 |
| CL4 8+00W   | 0.31 | 3.75 | 0.14 | 0.11 | 0.02 | 0.07 |
| CL4 9+00W   | 0.43 | 3.24 | 0.22 | 0.12 | 0.02 | 0.09 |
| CL4 10+00W  | 0.80 | 3.80 | 0.19 | 0.13 | 0.02 | 0.08 |
| CL4 11+00W  | 0.38 | 4.29 | 0.18 | 0.14 | 0.02 | 0.07 |
| CL4 12+00W  | 0.54 | 4.22 | 0.24 | 0.13 | 0.02 | 0.08 |
| CL4 13+00W  | 0.31 | 3.22 | 0.23 | 0.12 | 0.02 | 0.07 |
| CL4 14+00W  | 0.33 | 3.65 | 0.16 | 0.12 | 0.02 | 0.06 |
| CL4 15+00W  | 0.60 | 3.77 | 0.26 | 0.14 | 0.02 | 0.09 |
| CL4 16+00W  | 0.54 | 4.47 | 0.24 | 0.15 | 0.02 | 0.09 |
| CL6 0+00S   | 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  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



# CERTIFICATE OF ANALYSIS

## iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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[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 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 9999 9999 999 99 1.00 9.99  
 Method Spec FAAA FAGrav ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 X=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



# CERTIFICATE OF ANALYSIS

## iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

Page 7 of 12  
 [122111:38:41:69112796]

Section 2 of 2  
 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=Slit P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



***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.)

|   |                             |
|---|-----------------------------|
| 1 (Name) <u>Henry Marsden</u>                             | Occupation <u>Geologist</u> |
| (Postal Address) <u>201-134 West 20th St, North Vanc.</u> | OFFICE DATE STAMP           |
| <u>BC. CANADA. VTM 1X2</u>                                |                             |

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)

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 1996

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 21 | YB64664 - 1 year |
| Heidi 14 | YB 64657 - 1 year | Heidi 22 | YB64665 - 1 year |
| Heidi 15 | YB 64658 - 1 year | Heidi 23 | YB64666 - 1 year |
| Heidi 16 | YB64659 - 1 year  | Heidi 24 | YB64667 - 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 |          |                  |

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 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

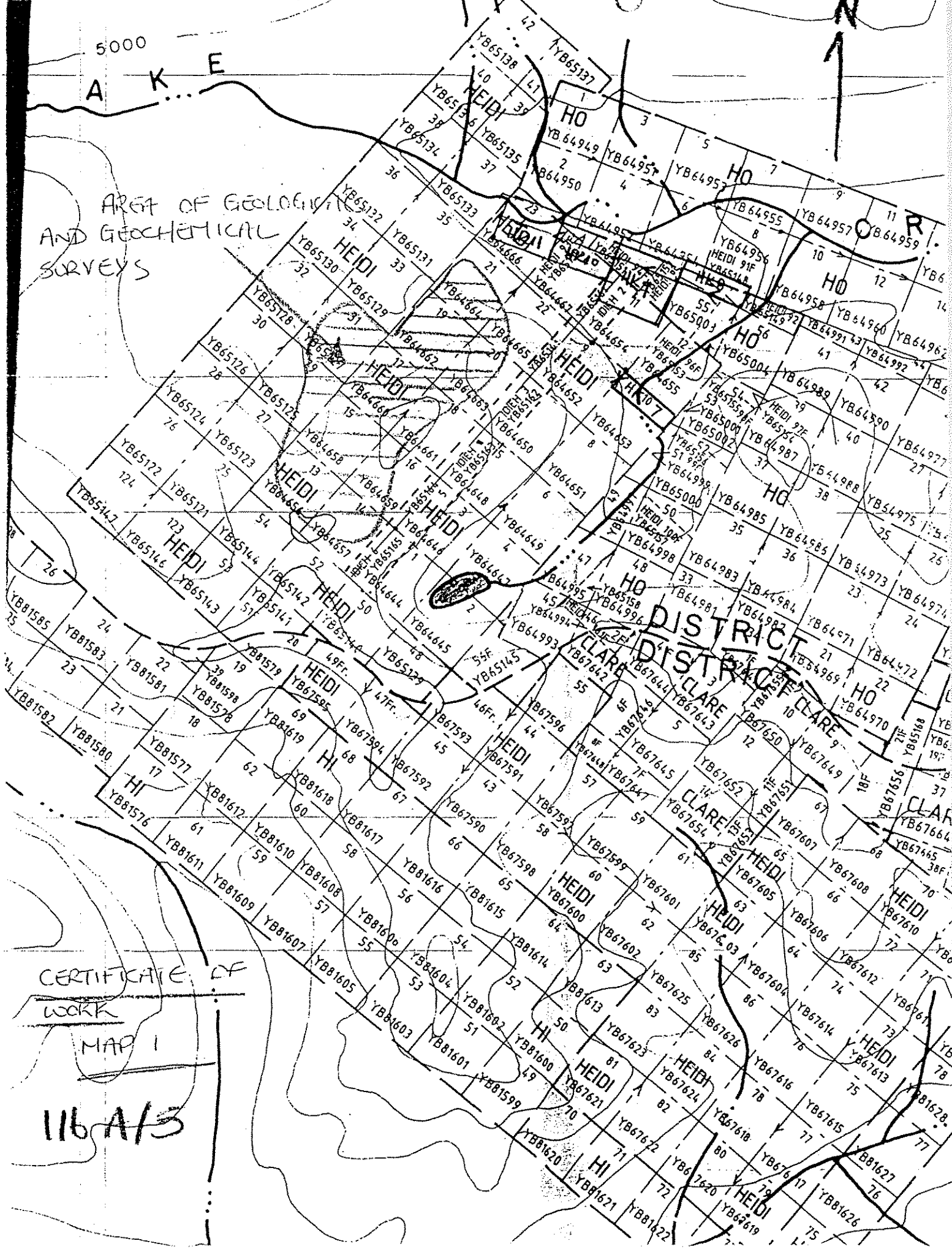
\_\_\_\_\_  
Owner or Authorized Agent

5000

A K E



AREA OF GEOLOGICAL  
AND GEOCHEMICAL  
SURVEYS



CERTIFICATE OF  
WORK

MAP 1

116 A/13

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

YUKON QUARTZ MINING ACT

APPLICATION TO GROUP MINERAL CLAIMS

MINING DISTRICT DAWSON

I (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 | 116 A/5         |
| XB 64657        | Heidi 14      | "          | "               |
| YB 64658        | Heidi 15      | "          | "               |
| XB 64659        | Heidi 16      | "          | "               |
| XB 64660        | Heidi 17      | "          | "               |
| XB 64661        | Heidi 18      | "          | "               |
| XB 64662        | Heidi 19      | "          | "               |
| YB 64663        | Heidi 20      | "          | "               |
| XB 64664        | Heidi 21      | "          | "               |
| YB 64665        | Heidi 22      | "          | "               |
| XB 64666        | Heidi 23      | "          | "               |
| XB 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

FOR OFFICE USE ONLY

FORM "E" NO. \_\_\_\_\_

RECEIPT NO. \_\_\_\_\_

DATE APPLIED \_\_\_\_\_

owner(s) signature





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

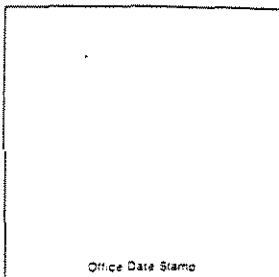
Attachment  
f.1504.09.03

Homestake Canada Inc.

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



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.

1. (name) E. J. GULASEC occupation LAND MANAGER  
of (postal address) 90 HOMESTAKE CANADA INC., #1000, 700 WEST PENDER ST,  
make oath and say that: VANCOUVER, B.C. V6C 1G8

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

BEST ATTAINABLE IMAGE

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 1996

**GRAHAM H. SCOTT**  
BARRISTER & SOLICITOR  
1040 - 998 West Hastings Street  
Vancouver, B.C. V6C 2W2

*E. J. Gulasec*  
Owner or Authorized Agent





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<br>↓<br>LAKE CREEK | 116 A/05<br>↓<br>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      |                               |                           |

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 26<sup>th</sup> day of September, 1996

*[Handwritten Signature]*

Owner's Signature

FOR OFFICE USE ONLY

|               |                |              |
|---------------|----------------|--------------|
| Form 6 Number | Receipt Number | Date Applied |
|---------------|----------------|--------------|





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.

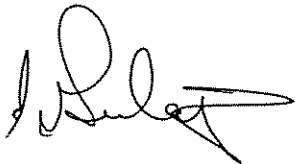
1000 - 700 West Pender Street • Vancouver, British Columbia • V6C 1G8 • Phone: (604) 684-2345 • Fax: (604) 684-9831

|           |         |            |            |
|-----------|---------|------------|------------|
| 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



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

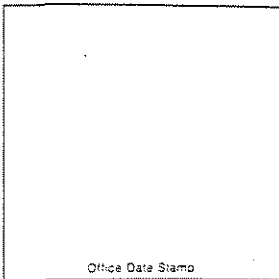
Attachment  
f.1504.09.03

Homestake Canada Inc.

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



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 Data Stamp

I, (name) F. J. GULAJEC occupation LAND MANAGER  
of (postal address) 90 HOMESTAKE CANADA INC., #1000, 700 WEST PENDER ST  
make oath and say that: VANCOUVER, B.C. V6C 1G8

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 67599 HEIDI 59 | YB 67609 HEIDI 69 | YB 67625 HEIDI 85 |
| YB 67591 HEIDI 44     | YB 67600 HEIDI 60 | YB 67610 HEIDI 70 |                   |
| YB 67592 HEIDI 45     | YB 67601 HEIDI 61 | YB 67611 HEIDI 71 | YB 67626 HEIDI 86 |
| YB 67593 HEIDI 46 Fr. | YB 67602 HEIDI 62 | YB 67612 HEIDI 72 |                   |
| YB 67594 HEIDI 47 Fr. | YB 67603 HEIDI 63 | YB 67614 HEIDI 74 |                   |
| YB 67595 HEIDI 49 Fr. | YB 67604 HEIDI 64 | YB 67616 HEIDI 76 |                   |
| YB 67596 HEIDI 55     | YB 67605 HEIDI 65 | YB 67618 HEIDI 78 |                   |
| YB 67597 HEIDI 57     | YB 67606 HEIDI 66 | YB 67620 HEIDI 80 |                   |
| YB 67598 HEIDI 58     | YB 67607 HEIDI 67 | YB 67621 HEIDI 81 |                   |
|                       | YB 67608 HEIDI 68 | YB 67622 HEIDI 82 |                   |
|                       |                   | YB 67623 HEIDI 83 |                   |
|                       |                   | YB 67624 HEIDI 84 |                   |

#363.64

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 16<sup>th</sup> day of JUNE 1996

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

- (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 8<sup>th</sup> day of October, 19 97

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

**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

700

**"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



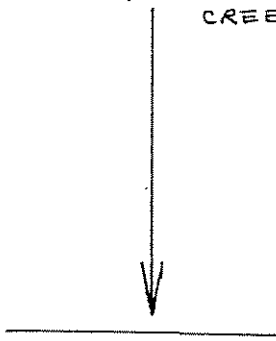
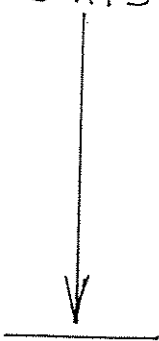
DAWSON M.D.  
LOCATION OF WORK  
ON HEIDI CLAIMS  
NTS: 116 A/15  
Sept 30/96

APPLICATION TO GROUP MINERAL CLAIMS  
YUKON QUARTZ MINING ACT

Mining District  
**DAWSON MINING DISTRICT**

Office Date Stamp

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

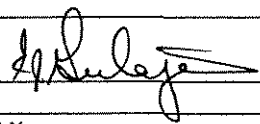
| Grant Number(s) | Claim Name(s) | Location  | Claim Sheet Number   |
|-----------------|---------------|---|--|
| YB 67590        | HEIDI 43      | TRIBUTARY OF HAMILTON CREEK<br> | 116 A/5<br> |
| YB 67591        | HEIDI 44      |   |  |
| YB 67592        | HEIDI 45      |   |  |
| YB 67593        | 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"**

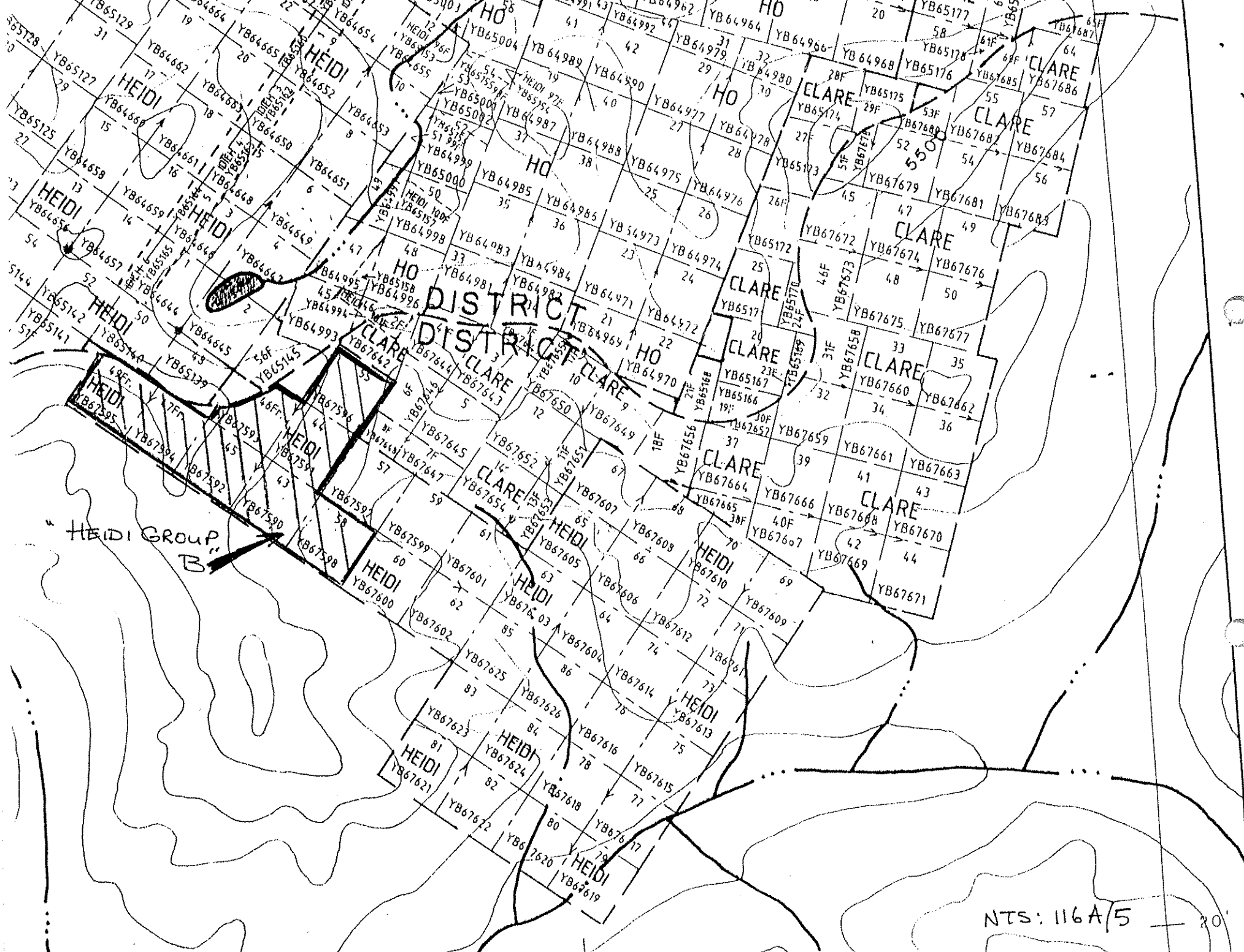
I (We) hereby certify that the above claims are adjoining as shown on attached sketch.

Dated at Vancouver, B.C.

this 30 day of September, 1996.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Owner(s) Signature 

| FOR OFFICE USE ONLY |                |              |
|---------------------|----------------|--------------|
| Form 6 Number       | Receipt Number | Date Applied |



HEIDI GROUP B

DISTRICT  
DISTRICT  
DISTRICT



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

Table with 4 columns: Grant Number(s), Claim Name(s), Location, Claim Sheet Number. Contains 14 rows of claim data including grant numbers (YB 67597-626), claim names (HEIDI 57-86), location (TRIBUTARY OF HAMILTON CREEK), and claim sheet number (116 A/5).

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.

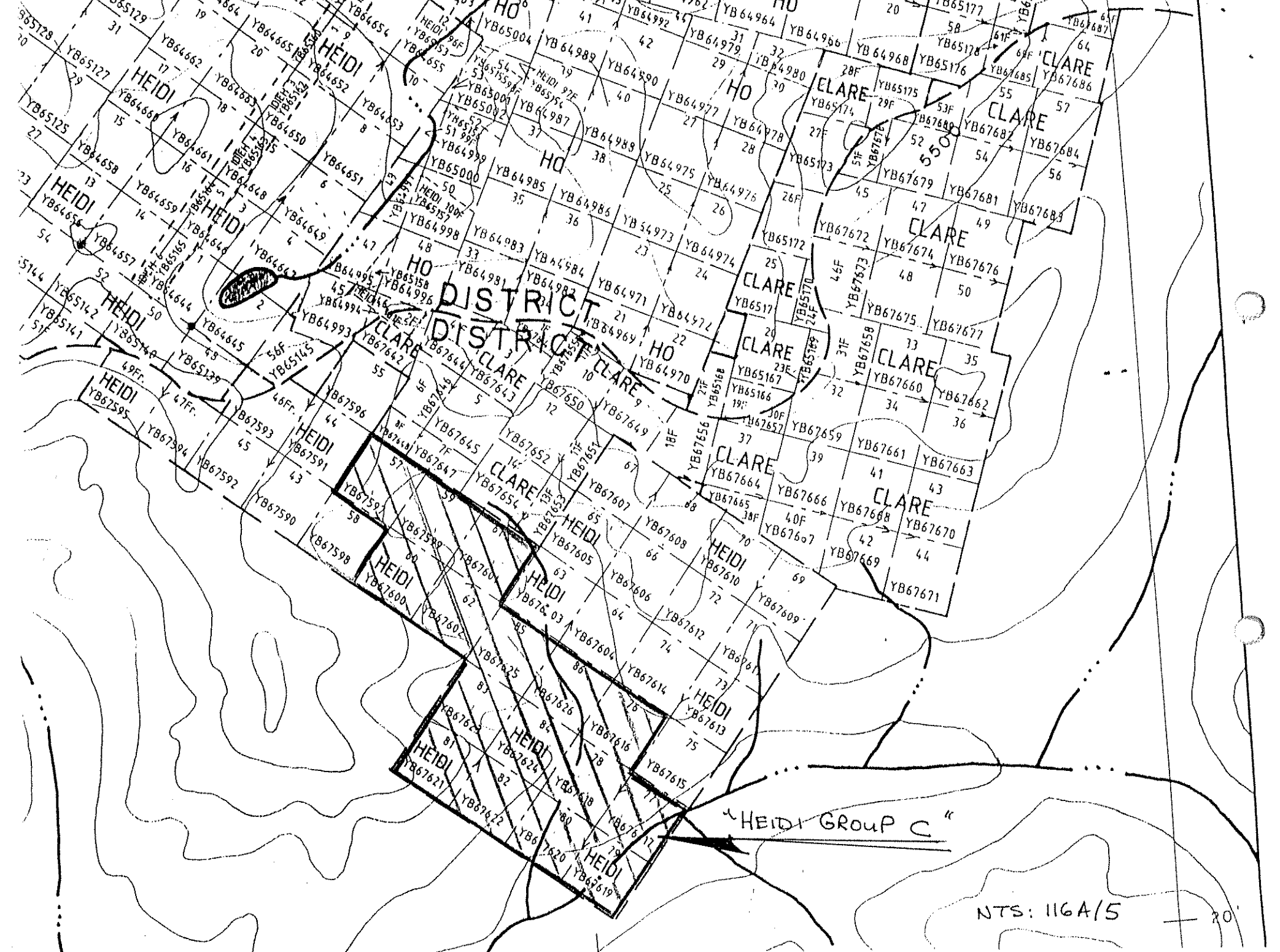
this 30 day of September 19 96.

Owner(s) Signature

[Handwritten signature]

FOR OFFICE USE ONLY

Table with 3 columns: Form 6 Number, Receipt Number, Date Applied.



DISTRICT

DISTRICT

"HEIDI Group C"

NTS: 116A/5



APPLICATION TO GROUP MINERAL CLAIMS  
YUKON QUARTZ MINING ACT

Office Date Stamp

Mining District

DAWSON

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 67 603       | HEIDI 63      | TRIBUTARY OF HAMILTON CREEK | 116 A/5            |
| YB 67 604       | HEIDI 64      |                             |                    |
| YB 67 605       | HEIDI 65      |                             |                    |
| YB 67 606       | HEIDI 66      |                             |                    |
| YB 67 607       | HEIDI 67      |                             |                    |
| YB 67 608       | HEIDI 68      |                             |                    |
| YB 67 609       | HEIDI 69      |                             |                    |
| YB 67 610       | HEIDI 70      |                             |                    |
| YB 67 611       | HEIDI 71      |                             |                    |
| YB 67 612       | HEIDI 72      |                             |                    |
| YB 67 613       | HEIDI 73      |                             |                    |
| YB 67 614       | HEIDI 74      |                             |                    |
| YB 67 615       | 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

*[Handwritten Signature]*

FOR OFFICE USE ONLY

|               |                |              |
|---------------|----------------|--------------|
| Form 6 Number | Receipt Number | Date Applied |
|---------------|----------------|--------------|



HEIDI DISTRICT

CLARE DISTRICT

"HEIDI GROUP D"

***APPENDIX IV***

***CORRESPONDENCE WITH DAWSON MINING RECORDER***



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

Page 8 of 12  
[122111:38:42:69112796]

Section 2 of 2  
Certified BC Assayer: David Chiu

| Sample Name | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|-------------|------|------|------|------|------|------|
| CL8 14+00S  | 0.07 | 4.10 | 0.65 | 0.07 | 0.02 | 0.04 |
| CL8 15+00S  | 0.14 | 4.29 | 0.31 | 0.10 | 0.02 | 0.04 |
| CL8 17+00S  | 0.13 | 4.61 | 0.29 | 0.09 | 0.02 | 0.04 |
| CL8 18+00S  | 0.13 | 4.59 | 0.24 | 0.09 | 0.02 | 0.05 |
| CL8 19+00S  | 0.20 | 4.70 | 0.35 | 0.07 | 0.01 | 0.05 |
| CL8 20+00S  | 0.17 | 4.65 | 0.32 | 0.07 | 0.01 | 0.04 |
| 1524        | 0.02 | 3.69 | 0.01 | 0.10 | 0.01 | 0.01 |
| 00038       | 0.36 | 3.18 | 0.26 | 0.23 | 0.03 | 0.02 |
| 00039       | 0.05 | 1.35 | 0.02 | 0.15 | 0.02 | 0.01 |
| 00040       | 0.01 | 2.89 | 0.01 | 0.14 | 0.01 | 0.01 |
| 00041       | 0.01 | 0.73 | 0.01 | 0.04 | 0.02 | 0.02 |
| 00042       | 0.02 | 1.24 | 0.01 | 0.15 | 0.03 | 0.02 |
| 00043       | 0.07 | 1.22 | 0.01 | 0.19 | 0.03 | 0.01 |
| 00044       | 0.07 | 0.79 | 0.01 | 0.15 | 0.04 | 0.01 |
| 00045       | 0.01 | 0.78 | 0.01 | 0.11 | 0.02 | 0.01 |
| 00046       | 1.07 | 3.63 | 0.01 | 0.07 | 0.02 | 0.07 |
| 00047       | 4.10 | 3.44 | 1.31 | 0.17 | 0.02 | 0.10 |
| 00048       | 0.23 | 1.15 | 0.01 | 0.11 | 0.01 | 0.01 |
| 00049       | 0.03 | 2.63 | 0.01 | 0.13 | 0.02 | 0.01 |
| 00050       | 0.01 | 2.15 | 0.01 | 0.31 | 0.02 | 0.01 |
| 1092        | 1.45 | 1.25 | 0.07 | 0.13 | 0.01 | 0.01 |
| 1093        | 5.13 | 4.52 | 2.95 | 1.16 | 0.11 | 0.23 |
| 1131        | 0.04 | 1.70 | 0.20 | 0.04 | 0.02 | 0.01 |
| 2926        | 1.23 | 1.08 | 0.13 | 0.09 | 0.04 | 0.01 |
| 2927        | 0.05 | 1.28 | 0.02 | 0.16 | 0.02 | 0.03 |
| 2928        | 0.26 | 1.40 | 0.03 | 0.12 | 0.02 | 0.01 |
| 2930        | 2.47 | 1.04 | 0.02 | 0.12 | 0.03 | 0.03 |
| 2938        | 0.43 | 1.63 | 0.22 | 0.12 | 0.03 | 0.02 |
| 2953        | 1.64 | 3.30 | 0.06 | 0.09 | 0.01 | 0.03 |
| 1094        | 0.25 | 3.96 | 0.46 | 0.08 | 0.01 | 0.10 |
| 1095        | 0.27 | 3.98 | 0.35 | 0.09 | 0.01 | 0.07 |
| 1096        | 0.26 | 3.31 | 0.35 | 0.09 | 0.02 | 0.10 |
| 1097        | 0.25 | 3.50 | 0.32 | 0.10 | 0.01 | 0.10 |
| 1098        | 2.41 | 1.07 | 0.09 | 0.06 | 0.02 | 0.11 |
| 1099        | 0.27 | 2.33 | 0.19 | 0.08 | 0.01 | 0.10 |
| 1100        | 0.10 | 3.53 | 0.44 | 0.07 | 0.01 | 0.07 |
| 1101        | 0.51 | 2.77 | 0.23 | 0.05 | 0.01 | 0.06 |
| 1102        | 0.27 | 2.93 | 0.34 | 0.08 | 0.01 | 0.06 |
| 1103        | 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  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

Page 9 of 12  
[122111:38:43:69112796]

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 % |
|-------------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|
| 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 999 9999 9999 999 99 1.00 9.99  
 Method                Spec FAAA    FAGrav    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 Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS

iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

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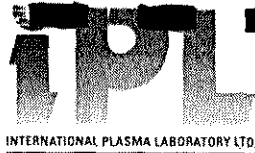
Section 2 of 2  
 Certified BC Assayer: David Chiu

| Sample Name | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|-------------|------|------|------|------|------|------|
| 1104        | 1.01 | 2.47 | 0.16 | 0.10 | 0.01 | 0.10 |
| 1105        | 0.31 | 2.97 | 0.36 | 0.07 | 0.01 | 0.13 |
| 1109        | 0.16 | 1.95 | 0.24 | 0.05 | 0.01 | 0.05 |
| 1110        | 0.26 | 4.32 | 0.37 | 0.07 | 0.01 | 0.09 |
| 1111        | 0.16 | 2.63 | 0.26 | 0.06 | 0.01 | 0.04 |
| 1112        | 0.07 | 2.62 | 0.35 | 0.05 | 0.01 | 0.03 |
| 1113        | 0.14 | 2.56 | 0.35 | 0.05 | 0.01 | 0.05 |
| 1114        | 0.14 | 4.44 | 0.40 | 0.09 | 0.01 | 0.07 |
| 1115        | 0.07 | 2.09 | 0.24 | 0.04 | 0.01 | 0.06 |
| 1116        | 0.11 | 2.15 | 0.36 | 0.03 | 0.01 | 0.05 |
| 1117        | 0.10 | 2.58 | 0.36 | 0.04 | 0.01 | 0.04 |
| 1118        | 0.10 | 4.05 | 0.29 | 0.06 | 0.01 | 0.06 |
| 1119        | 0.08 | 3.66 | 0.41 | 0.06 | 0.01 | 0.05 |
| 1120        | 0.10 | 3.19 | 0.35 | 0.05 | 0.01 | 0.06 |
| 1121        | 0.23 | 3.10 | 0.40 | 0.06 | 0.01 | 0.08 |
| 1122        | 0.07 | 3.16 | 0.39 | 0.05 | 0.01 | 0.06 |
| 1123        | 0.06 | 2.45 | 0.29 | 0.03 | 0.01 | 0.03 |
| 1124        | 0.07 | 2.82 | 0.27 | 0.06 | 0.01 | 0.08 |
| 1125        | 0.06 | 2.52 | 0.28 | 0.04 | 0.01 | 0.05 |
| 1126        | 0.08 | 2.55 | 0.33 | 0.06 | 0.01 | 0.07 |
| 1127        | 0.09 | 2.51 | 0.39 | 0.05 | 0.01 | 0.10 |
| 1128        | 0.07 | 3.03 | 0.35 | 0.05 | 0.01 | 0.07 |
| 1129        | 0.06 | 3.63 | 0.33 | 0.05 | 0.01 | 0.07 |
| 1130        | 0.13 | 2.98 | 0.50 | 0.05 | 0.01 | 0.08 |
| 2929        | 0.33 | 3.73 | 0.20 | 0.05 | 0.02 | 0.06 |
| 2931        | 0.09 | 3.25 | 0.39 | 0.05 | 0.01 | 0.06 |
| 2932        | 0.06 | 2.81 | 0.36 | 0.05 | 0.01 | 0.06 |
| 2933        | 0.35 | 2.74 | 0.26 | 0.05 | 0.02 | 0.09 |
| 2934        | 0.50 | 3.39 | 0.13 | 0.06 | 0.01 | 0.06 |
| 2935        | 0.23 | 3.22 | 0.31 | 0.06 | 0.01 | 0.08 |
| 2936        | 0.58 | 3.14 | 0.27 | 0.06 | 0.01 | 0.07 |
| 2937 A      | 0.77 | 3.41 | 0.25 | 0.07 | 0.01 | 0.07 |
| 2937 B      | 0.08 | 3.82 | 0.30 | 0.06 | 0.01 | 0.07 |
| 2946        | 0.05 | 8.03 | 0.31 | 0.18 | 0.02 | 0.08 |
| 2947        | 0.28 | 4.29 | 0.30 | 0.13 | 0.02 | 0.09 |
| 2948        | 0.27 | 2.98 | 0.34 | 0.07 | 0.01 | 0.07 |
| 2949        | 0.09 | 4.01 | 0.40 | 0.07 | 0.01 | 0.10 |
| 2950        | 0.10 | 3.36 | 0.61 | 0.05 | 0.01 | 0.03 |
| 2951        | 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 X Max=No Estimate





CERTIFICATE OF ANALYSIS  
iPL 96K1221

Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
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Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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Section 2 of 2  
Certified BC Assayer: David Chiu

| Sample Name | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|-------------|------|------|------|------|------|------|
| 2952        | 0.43 | 3.61 | 0.26 | 0.08 | 0.02 | 0.07 |
| 2954        | 0.36 | 3.62 | 0.22 | 0.07 | 0.01 | 0.06 |
| 2955        | 0.55 | 4.60 | 0.35 | 0.10 | 0.01 | 0.07 |
| 2956        | 0.25 | 3.96 | 0.24 | 0.09 | 0.02 | 0.06 |
| 2957        | 0.46 | 2.75 | 0.28 | 0.07 | 0.01 | 0.08 |
| 2958        | 0.09 | 3.78 | 0.30 | 0.07 | 0.01 | 0.06 |
| 2959        | 0.48 | 3.25 | 0.13 | 0.09 | 0.02 | 0.05 |
| 2960        | 0.67 | 3.09 | 0.15 | 0.04 | 0.01 | 0.06 |
| 2961        | 0.07 | 2.63 | 0.24 | 0.08 | 0.01 | 0.09 |
| 2962        | 0.13 | 2.65 | 0.32 | 0.07 | 0.01 | 0.07 |
| 2963        | 0.07 | 3.51 | 0.31 | 0.09 | 0.01 | 0.08 |
| 2964        | 0.08 | 2.32 | 0.24 | 0.06 | 0.01 | 0.08 |
| 2965        | 0.16 | 4.43 | 0.18 | 0.04 | 0.01 | 0.06 |
| 2966        | 0.15 | 4.68 | 0.45 | 0.06 | 0.01 | 0.09 |
| 2967        | 0.07 | 2.73 | 0.34 | 0.04 | 0.01 | 0.08 |
| 2968        | 0.07 | 3.00 | 0.35 | 0.02 | 0.01 | 0.05 |
| 2969        | 0.08 | 3.52 | 0.48 | 0.06 | 0.02 | 0.11 |
| 2970        | 0.14 | 2.93 | 0.41 | 0.05 | 0.01 | 0.08 |
| 2971        | 0.08 | 3.40 | 0.32 | 0.05 | 0.01 | 0.06 |
| 2972        | 0.04 | 3.53 | 0.28 | 0.05 | 0.01 | 0.04 |
| 2973        | 0.10 | 3.89 | 0.54 | 0.04 | 0.01 | 0.04 |
| 2974        | 0.13 | 3.12 | 0.47 | 0.04 | 0.01 | 0.06 |
| 2975        | 0.13 | 2.91 | 0.42 | 0.03 | 0.01 | 0.06 |
| 2976        | 0.09 | 2.85 | 0.38 | 0.04 | 0.01 | 0.08 |
| 2977        | 0.08 | 2.97 | 0.48 | 0.05 | 0.01 | 0.05 |
| 2978        | 0.10 | 4.01 | 0.53 | 0.08 | 0.02 | 0.16 |
| 2979        | 0.08 | 3.35 | 0.42 | 0.04 | 0.01 | 0.07 |
| 1132        | 4.52 | 3.11 | 0.32 | 0.15 | 0.03 | 0.01 |
| 1133        | 1.81 | 2.59 | 0.11 | 0.09 | 0.01 | 0.01 |
| 1134        | 0.02 | 8.42 | 0.01 | 0.09 | 0.02 | 0.02 |
| 1135        | 0.05 | 3.19 | 0.01 | 0.07 | 0.01 | 0.01 |
| 2980        | 0.03 | 1.98 | 0.14 | 0.06 | 0.02 | 0.01 |
| 2981        | 0.03 | 2.03 | 0.20 | 0.07 | 0.02 | 0.01 |
| 2982        | 0.21 | 4.23 | 0.16 | 0.07 | 0.02 | 0.05 |
| 2983        | 0.18 | 4.95 | 0.10 | 0.07 | 0.02 | 0.06 |
| 2984        | 0.10 | 3.82 | 0.06 | 0.08 | 0.01 | 0.04 |
| 2985        | 0.09 | 2.62 | 0.02 | 0.06 | 0.01 | 0.02 |
| 2986        | 0.14 | 4.81 | 0.04 | 0.08 | 0.02 | 0.05 |
| 2987        | 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=PuIp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



# CERTIFICATE OF ANALYSIS

## iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

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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 | Tl % | 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 9999 9999 9999 9999 999 999 99 1.00 9.99  
 Method            Spec FAAA    FAGrav    ICP

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

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 96K1221

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

Client: Homestake Canada Inc  
Project: Heidi 462 Pulp

iPL: 96K1221

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

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[122118:58:56:69112696]

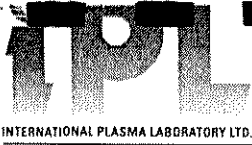
Section 2 of 2  
Certified BC Assayer: David Chiu

| Sample Name  | Ca % | Fe % | Mg % | K %  | Na % | P %  |
|--------------|------|------|------|------|------|------|
| 1+00N 3+00W  | 0.46 | 2.59 | 0.29 | 0.08 | 0.02 | 0.09 |
| 1+00N 3+50W  | 0.19 | 3.12 | 0.46 | 0.06 | 0.01 | 0.07 |
| 1+00N 4+00W  | 0.13 | 3.17 | 0.30 | 0.06 | 0.01 | 0.07 |
| 1+00N 4+50W  | 0.41 | 2.93 | 0.43 | 0.07 | 0.02 | 0.06 |
| 1+50N 1+50W  | 0.34 | 2.23 | 0.33 | 0.08 | 0.01 | 0.05 |
| 1+50N 2+00W  | 0.08 | 2.68 | 0.24 | 0.07 | 0.01 | 0.09 |
| 1+50N 2+50W  | 0.28 | 2.72 | 0.26 | 0.07 | 0.01 | 0.11 |
| 1+50N 3+00W  | 0.24 | 2.79 | 0.27 | 0.08 | 0.02 | 0.10 |
| 1+50N 3+50W  | 0.20 | 3.11 | 0.44 | 0.07 | 0.01 | 0.08 |
| 1+50N 9+00W  | 0.19 | 3.37 | 0.56 | 0.05 | 0.01 | 0.07 |
| 1+50N 9+50W  | 0.10 | 3.34 | 0.39 | 0.06 | 0.01 | 0.07 |
| 1+50N 10+00W | 0.04 | 3.71 | 0.16 | 0.05 | 0.01 | 0.12 |
| 1+50N 10+50W | 0.07 | 4.23 | 0.44 | 0.07 | 0.01 | 0.11 |
| 1+50N 11+00W | 0.21 | 3.31 | 0.37 | 0.07 | 0.02 | 0.09 |
| 1+50N 11+50W | 0.44 | 3.04 | 0.22 | 0.09 | 0.02 | 0.15 |
| 1+50N 12+00W | 0.51 | 3.83 | 0.25 | 0.09 | 0.01 | 0.08 |
| 1+50N 12+50W | 0.21 | 3.08 | 0.21 | 0.08 | 0.01 | 0.09 |
| 2+50N 0+50E  | 0.07 | 3.39 | 0.31 | 0.07 | 0.01 | 0.06 |
| 2+50N 1+00E  | 0.17 | 2.94 | 0.33 | 0.06 | 0.01 | 0.07 |
| 2+50N 1+50E  | 0.14 | 3.40 | 0.33 | 0.08 | 0.01 | 0.08 |
| 2+50N 2+00E  | 0.09 | 3.05 | 0.34 | 0.07 | 0.01 | 0.06 |
| 2+50N 2+50E  | 0.14 | 3.86 | 0.38 | 0.08 | 0.02 | 0.06 |
| 2+50N 3+00E  | 0.09 | 3.60 | 0.26 | 0.12 | 0.02 | 0.06 |
| 2+50N 3+50E  | 0.19 | 3.28 | 0.36 | 0.07 | 0.01 | 0.07 |
| 2+50N 9+50W  | 0.14 | 2.61 | 0.44 | 0.04 | 0.01 | 0.05 |
| 2+50N 10+00W | 0.25 | 4.40 | 0.24 | 0.07 | 0.01 | 0.09 |
| 2+50N 10+50W | 0.11 | 2.69 | 0.06 | 0.06 | 0.01 | 0.08 |
| 2+50N 11+00W | 0.23 | 4.89 | 0.28 | 0.09 | 0.01 | 0.13 |
| 2+50N 11+50W | 0.46 | 4.43 | 0.36 | 0.09 | 0.02 | 0.13 |
| 2+50N 12+00W | 0.53 | 4.06 | 0.24 | 0.09 | 0.02 | 0.15 |
| 2+50N 12+50W | 0.28 | 3.58 | 0.34 | 0.07 | 0.01 | 0.06 |
| 3+50N 0+50E  | 0.12 | 3.00 | 0.20 | 0.08 | 0.01 | 0.07 |
| 3+50N 1+00E  | 0.12 | 3.58 | 0.25 | 0.14 | 0.02 | 0.07 |
| 3+50N 1+50E  | 0.14 | 3.79 | 0.53 | 0.10 | 0.02 | 0.07 |
| 3+50N 2+50E  | 0.16 | 2.97 | 0.40 | 0.06 | 0.01 | 0.07 |
| 3+50N 3+00E  | 0.14 | 3.25 | 0.26 | 0.12 | 0.02 | 0.08 |
| 3+50N 12+50W | 0.15 | 4.24 | 0.08 | 0.09 | 0.02 | 0.06 |
| 4+50N 0+50E  | 0.15 | 2.67 | 0.27 | 0.05 | 0.01 | 0.05 |
| 4+50N 1+00E  | 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 X Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898





CERTIFICATE OF ANALYSIS

iPL 96K1221

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

Client: Homestake Canada Inc  
 Project: Heidi 462 Pulp

iPL: 96K1221

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

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 [122111:38:59:69112796]

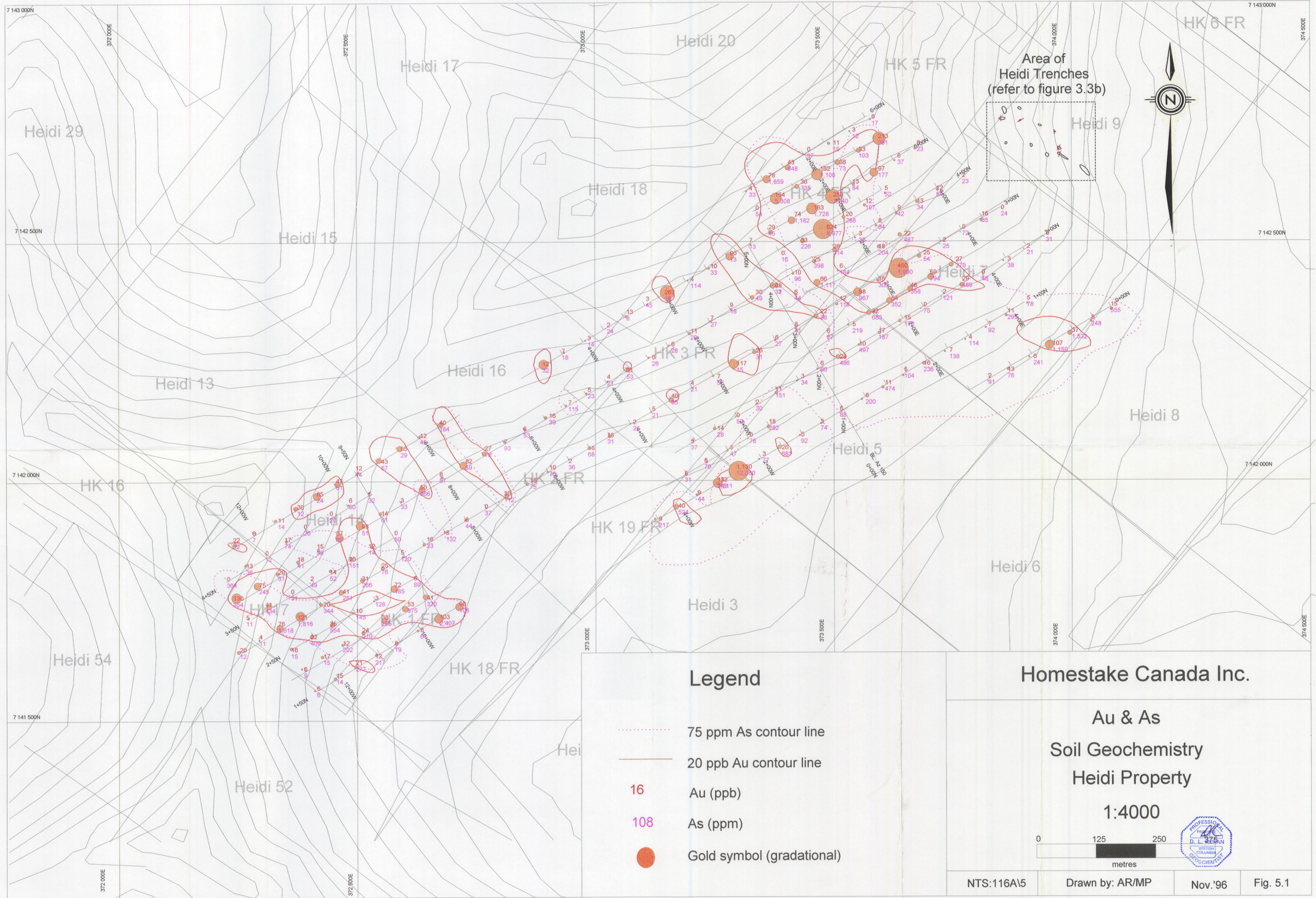
Section 2 of 2  
 Certified BC Assayer: David Chiu

| 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 X Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898





093518

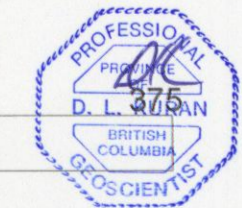
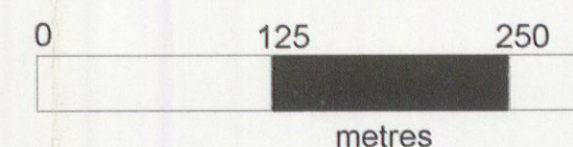
**Legend**

- - - - - 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**

**1:4000**



NTS:116A/5

Drawn by: AR/MP

Nov. '96

Fig. 5.1