ASSESSMENT REPORT

1998 GEOLOGICAL AND GEOCHEMICAL PROGRAM

HEIDI PROPERTY

Heidi 51F, 52 – 54, 123, 124 quartz claims
HK18 – 19Fr, 22Fr, 26-27Fr quartz claims

093920

Mayo Mining District, Yukon

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

Owner and operator:

HOMESTAKE CANADA INC.
1100- 1055 West Georgia Street
Vancouver, B.C.
V6E 3P3

Report by:
Mike Papageorge, Geologist
Homestake Canada Inc.

Field Work completed: September 10, 1998
Report completed: December 8, 1998

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of $ 36000.00.

M. Burke

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

SUMMARY

The Heidi property is 100% owned by Homestake Canada Inc. and is located 90 km northeast of Dawson City. 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 42 granted claims 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 1998 summer exploration program consisted of geological and geochemical prospecting and mapping.

TABLE OF CONTENTS

SUMMARY 1

TABLE OF CONTENTS 2

TABLE OF FIGURES 2

1.0 INTRODUCTION 3
- *1.1 LOCATION AND ACCESS* 3
- *1.2 PHYSIOGRAPHY, VEGETATION, AND CLIMATE* 3
- *1.3 PROPERTY HISTORY* 5

2.0 CLAIM STATUS 5
- *2.1 MAYO MINING DISTRICT* 5

3.0 GEOLOGY 7
- *3.1 REGIONAL GEOLOGY* 7
- *3.2 REGIONAL MINERALIZATION* 8
- *3.3 PROPERTY GEOLOGY AND MINERALIZATION* 8

4.0 1998 FIELD PROGRAM 9
- *4.1 SAMPLING METHOD* 9
- *4.2 ANALYTICAL METHOD* 9

5.0 RESULTS 9
- *5.1 1998 SAMPLING* 9

6.0 CONCLUSIONS AND RECOMMENDATIONS 9

7.0 REFERENCES 10

8.0 STATEMENT OF EXPENDITURES 11

9.0 STATEMENT OF QUALIFICATIONS 12

APPENDIX 1 SAMPLE DESCRIPTIONS AND LOCATIONS 13

APPENDIX 2 ASSAY CERTIFICATES 16

APPENDIX 3 CORRESPONDENCE WITH MAYO MINING RECORDER 26

APPENDIX 4 SAMPLE LOCATION MAP 29

TABLE OF FIGURES

FIGURE 1: HEIDI LOCATION MAP 4

FIGURE 2: CLAIM MAP 6

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.

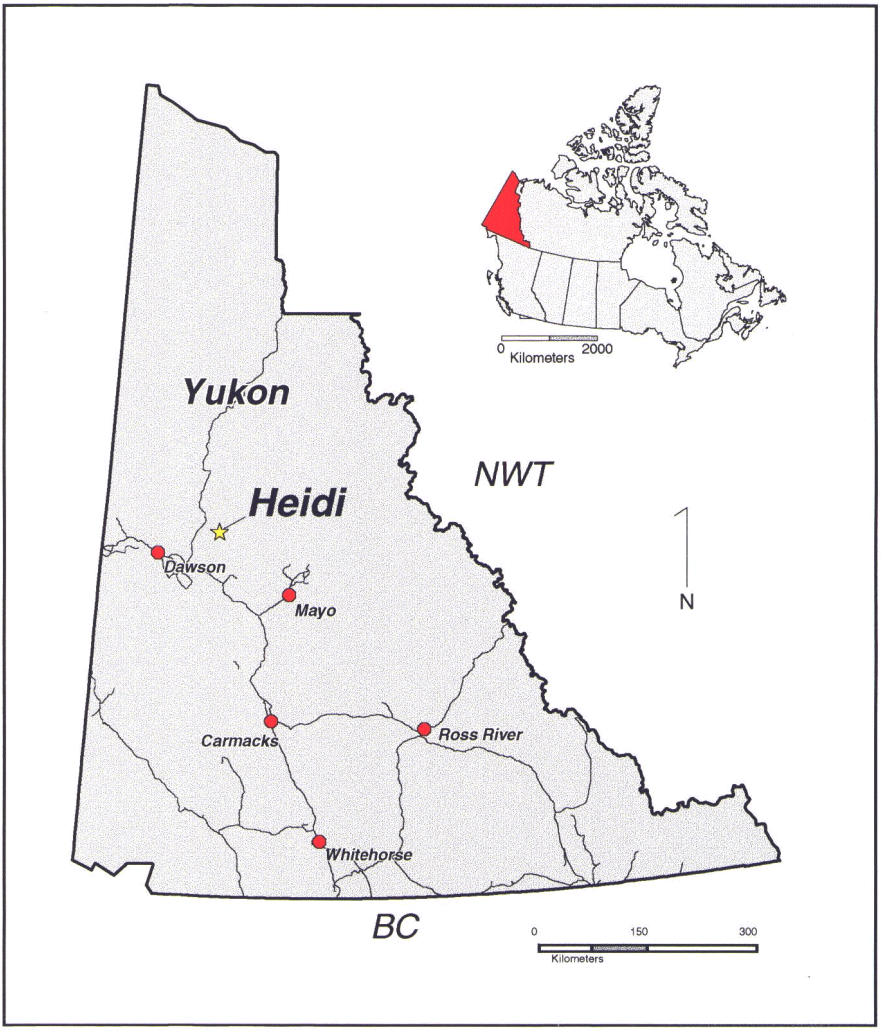

Figure 1: Location of the Heidi claims in the Yukon Territory

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 mine, owned and operated by Viceroy Resources is located 40km southwest of the Heidi property.

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.

2.0 CLAIM STATUS

2.1 MAYO MINING DISTRICT

Table 1-1 summarizes the status of claims staked by Homestake Canada Inc. Figure 2 outlines the claims worked during the 1998 field season.

TABLE 1-1 CLAIM STATUS - Mayo Mining District (October 31/98)

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, 1999
Heidi 13-24	YB64656-667 (Granted)	12	August 16, 1999
Heidi 51-54	YB65141-144 (Granted)	4	October 13, 2000 *
Heidi 123, 124	YB65146-147 (Granted)	2	October 13, 2000 *
HK 3-5	YB65561-563 (Granted)	3	July 16, 1999
HK 18-19	YB65876-877 (Granted)	6	September 27, 2000 *
HK 22	YB65880	1	September 27, 2000 *
HK 26-27	YB65884-885 (Granted)	2	September 27, 2000 *
HK 28-31	YB81021-024 (Granted)	4	July 11, 1999

* Expiry dates indicated are subject to Government approval of current assessment work Report

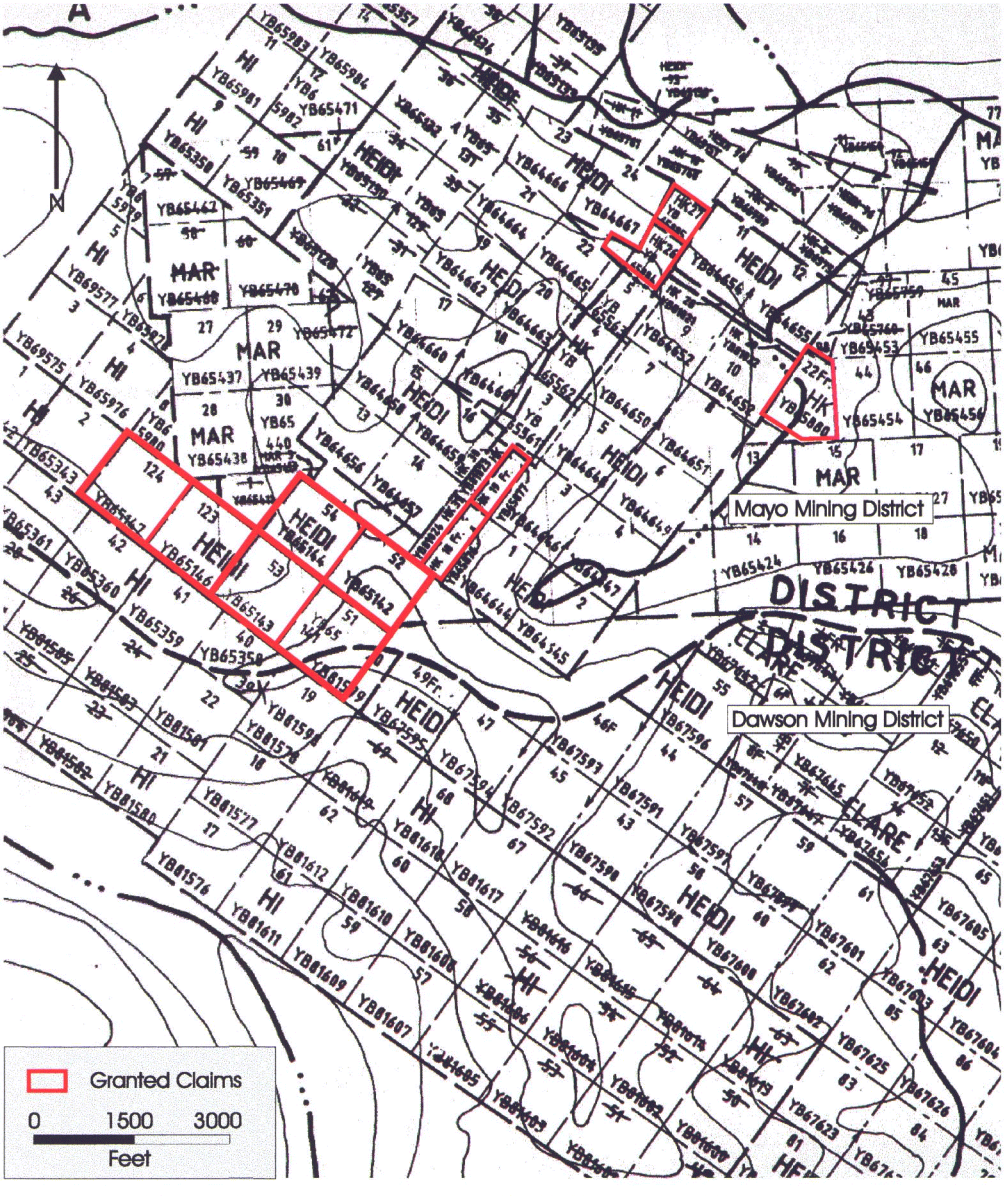

Figure 2: Claim map outlining Granted claims relevant to assessment report.

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 consists of a sequence of Middle Proterozoic to Middle Paleozoic carbonate and clastic sedimentary and volcanic rocks that 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 that 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.

Rocks of the Hyland, Road River and Earn Groups dominate the stratigraphic sequence in the area. 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 displays 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 that forms the base plate of the Robert Service Thrust.

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 characterize the intrusions and their alteration aureoles.

3.3 Property Geology and Mineralization

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

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

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

4.0 1998 FIELD PROGRAM

The 1998 field work was comprised of four man days of work completed on September 10, 1998, in an effort to locate key intrusive outcrops on the property and to sample the valley along strike from the mineralized outcrops on the main hillside.

4.1 SAMPLING METHOD

Soil samples were obtained using a Geotul mattock. Most of the samples were collected on level ground with well developed soil horizons. Samples were bagged in kraft sample bags and labeled with grid location coordinates or sample tag numbers. Channel samples were carefully chipped across measured intervals, bagged and tagged. Grab samples were tagged and marked for location.

4.2 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 1000ppb 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 1998 SAMPLING

The 1998 soil line was completed in the valley to the east of the steep face that contains the majority of the mineralization on the property. The results delineated an arsenic anomaly that has been interpreted to be an extension into the valley of the mineralized stratigraphy contained on the steep face.

Rock samples from 1998 failed to identify any new zones of mineralization, however an outcrop of a feldspar-biotite porphyry was mapped. Geochemical analyses and sample descriptions are included in Appendix I and II.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Sampling and prospecting on the property delineated the extent of a feldspar-biotite porphyry. Rocks and soil in the vicinity of the porphyry should be sampled and mapped to determine the presence of mineralization.

A second soil line should be extended in the valley to the west of the HSL line which was sampled in 1998, in order to expand the 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.

Bordin, D., Papageorge, M.L., Lewis, J.D.,1997, Assessment report: 1997 Geological and Geochemical Program, Heidi Property, Yukon Territory

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, Nahanni 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, Bulletin68, 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 EXPENDITURES

Heidi Project - Assessment Work Completed Sept 10, 1998

TOTAL	**$4,489.84**				
DESCRIPTION		AMOUNT	RATE ($)	NET($)	
SALARIES	(IN-HOUSE)				
	D. Bordin-Project Geologist				
	Field work	1.0	413.00	413.00	
	B. Traub-Field Geologist				
	Field Work	1.0	263.00	263.00	
	M.Papageorge-Field Geologist				
	Field Work	1.0	263.00	263.00	
	Report Writing	2.0	263.00	526.00	
					$1,465.00
FEES	(CONSULTANTS)				
	Don Coolidge	1.0	263.00	263.00	
					$263.00
ANALYSIS	(ASSAY, METALLURGICAL)				
	Rocks	8	18.00	144.00	
	Soils	13	18.00	234.00	
					$378.00
FIELD/CAMP					
	Field Supplies			50.00	
	Camp costs	3 man days	35.00	105.00	
					$155.00
TRANSPORTATION					
	Helicopter	2.9	770.29	2233.84	
					$2,233.84
				Total	***$4,494.84***

9.0 STATEMENT OF QUALIFICATIONS

I, Mike Papageorge, of 3340 west 10th avenue, Vancouver, British Columbia, do hereby certify that:

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

2. I graduated in April 1997 from the University of British Columbia with a Bachelor of Science, Honors Geology.

3. I am a geologist-in-training with the Association of Professional Engineers and Geoscientists of British Columbia.

4. I personally conducted and supervised the September, 1998 field work on the Heidi Claims.

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.

Mike Papageorge, B.Sc., G.I.T.

APPENDIX 1 SAMPLE DESCRIPTIONS AND LOCATIONS

Heidi Rock Samples

Sample Number	Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Bi ppm	Northing	Eastin
01392	Intense quartz-carbonate veining with 1-2% galena, trace pyrrhotite and pyrite. Moderately altered veins are less than 2 cm wide.	2	0.7	13	1360	16	39	8	1	7141156	372957
01393	coarse grained quartzite	2	0.05	12	32	23	22	6	1	7141217	372827
20728	grey quartzite with brown oxidation along fracture surfaces...	7	0.4	26	83	54	59	2.5	1	7141900	371400
20729	Quartzite with a carbonate matrix, some fizzing, rare yellow oxidation color	9	0.4	19	48	4	21	2.5	1	7141710	372750
20730	Tension gashes from within the Narchilla shales	4	1.3	15	835	5	17	2.5	1	7143450	374400
20731	Tension gashes with remobilized quartz. Hosted in Narchilla shales.	40	0.4	8	21	23	2	2.5	1	7143450	374400
24498	Heidi sample. Green/grey quartzite. No visible sulphides	10	0.05	26	6	26	52	2.5	1	7141500	372100
24499	Heidi sample. Grey rusty quartzite with minor qtz stringers. No sulphides.	12	0.1	45	13	22	102	2.5	1	7141200	372200

Heidi Soil Samples

Sample Number	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm	Bi ppm
HSL 0 1	12	0.5	39	192	134	96	307	1
HSL 0 2	6	0.05	32	59	83	17	92	1
HSL 0 3	3	0.05	25	70	88	25	126	1
HSL 0 4	1	0.05	32	43	108	13	68	1
HSL 0 5	3	0.2	22	55	82	19	99	1
HSL 0 6	1	0.2	24	48	83	13	93	1
HSL 0 7	1	0.6	23	54	87	20	94	1
HSL 0 8	3	0.5	26	104	117	37	115	1
HSL 0 9	1	0.4	31	67	87	25	101	1
HSL 010	12	0.4	28	77	148	31	256	1
HSL 011	9	0.3	38	86	156	49	131	1
HSL 012	3	0.6	24	77	92	31	133	1
HSL 013	1	0.1	25	35	90	7	50	1

APPENDIX 2 ASSAY CERTIFICATES

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 98I1018

1036 C[illegible]
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Homestake Canada Inc
Project : 90822 Yukon
Shipper : Dominic Bordin
Shipment: PO#:
Analysis:
Au(FA/AAS 30g) ICP(AqR)30

Comment:

121 Samples Out: Sep 25, 1998 In: Sep 22, 1998 [101815:16:30:89093098]

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B211	121	Rock	crush, split & pulverize	12M/Dis	03M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

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Canada
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Fx:604/684-9831
Em:yukonexp@homestake.com

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0313	FA/AAS	ppb	Au FA/AAS finish 30g	Gold	2	10000
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	1000.00
03	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
04	0711	ICP	ppm	Cu ICP	Copper	1	20000
05	0714	ICP	ppm	Pb ICP	Lead	2	20000
06	0730	ICP	ppm	Zn ICP	Zinc	1	20000
07	0703	ICP	ppm	As ICP	Arsenic	5	10000
08	0702	ICP	ppm	Sb ICP	Antimony	5	1000
09	0732	ICP	ppm	Hg ICP	Mercury	3	10000
10	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
11	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
12	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
13	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
14	0710	ICP	ppm	Co ICP	Cobalt	1	10000
15	0718	ICP	ppm	Ni ICP	Nickel	1	10000
16	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
17	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
18	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
19	0729	ICP	ppm	V ICP	Vanadium	2	10000
20	0716	ICP	ppm	Mn ICP	Manganese	1	10000
21	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
22	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
23	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
24	0736	ICP	ppm	Sc ICP	Scandium	1	10000
25	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
26	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
27	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
28	0712	ICP	%	Fe ICP	Iron	0.01	10.00
29	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
30	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
31	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
32	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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DL=Download 3D=3½ Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0343040619
• Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 98I1018

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

Client : Homestake Canada Inc
Project: 90822 Yukon

121 Samples
121=Rock

[101815:16:30:89093098]

Out: Sep 25, 1998
In : Sep 22, 1998

Sample Name	Type	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
24498	Rock	10	—	<0.1	26	6	26	52	<5	<3	3	<10	<2	2.4	4	11	30	<5	186
24499	Rock	12	—	0.1	45	13	22	102	<5	<3	2	<10	<2	2.6	3	10	31	<5	188
Minimum Detection		2	0.07	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1
Maximum Detection		10000	1000.00	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000	10000
Method		FA/AAS	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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iPL 98I1018

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

Client : Homestake Canada Inc
Project: 90822 Yukon

121 Samples
121=Rock

[101815:16:30:89093098]

Out: Sep 25, 1998
In : Sep 22, 1998

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
24498	5	99	14	6	8	1	<0.01	0.24	0.11	1.18	0.02	0.11	0.03	0.01
24499	5	136	11	7	6	1	<0.01	0.28	0.10	1.29	0.02	0.10	0.01	0.01
Minimum Detection	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS
iPL 98I1019

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
[101911:18:12:89092998]

Homestake Canada Inc
Project : 90820 Yukon
Shipper : Dominic Bordin
Shipment: PO#:
Analysis:
Au(FA/AAS 30g) ICP(AqR)30

Comment:

15 Samples Out: Sep 25, 1998 In: Sep 22, 1998

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B211	2	Rock	crush, split & pulverize	12M/Dis	03M/Dis
B111	13	Soil	Dry & sift to -80 mesh, discard reject.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Document Distribution

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Fx:604/684-9831
Em:dkuran@homestake.com

2 Homestake Canada Inc. EN RT CC IN FX
0 0 0 0 1
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Yukon 0 0 1 0 0
Canada
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3 Homestake Canada Inc. EN RT CC IN FX
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BC V6E 3P3 0 0 1 1 0
Canada
Att: Mike Papageorge Ph:604/684-2345
Fx:604/684-9831
Em:yukonexp@homestake.com

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0313	FA/AAS	ppb	Au FA/AAS finish 30g	Gold	2	10000
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	1000.00
03	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
04	0711	ICP	ppm	Cu ICP	Copper	1	20000
05	0714	ICP	ppm	Pb ICP	Lead	2	20000
06	0730	ICP	ppm	Zn ICP	Zinc	1	20000
07	0703	ICP	ppm	As ICP	Arsenic	5	10000
08	0702	ICP	ppm	Sb ICP	Antimony	5	1000
09	0732	ICP	ppm	Hg ICP	Mercury	3	10000
10	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
11	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
12	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
13	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
14	0710	ICP	ppm	Co ICP	Cobalt	1	10000
15	0718	ICP	ppm	Ni ICP	Nickel	1	10000
16	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
17	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
18	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
19	0729	ICP	ppm	V ICP	Vanadium	2	10000
20	0716	ICP	ppm	Mn ICP	Manganese	1	10000
21	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
22	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
23	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
24	0736	ICP	ppm	Sc ICP	Scandium	1	10000
25	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
26	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
27	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
28	0712	ICP	%	Fe ICP	Iron	0.01	10.00
29	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
30	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
31	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
32	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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DL=Download 3D=3½ Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0343040619

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 98I1019

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

Client : Homestake Canada Inc
Project: 90820 Yukon

15 Samples
2=Rock 13=Soil

[101911:18:12:89092998]

Out: Sep 25, 1998
In : Sep 22, 1998

Sample Name	Type	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
HI-D 01392	Rock	2	—	0.7	13	1360	16	39	8	<3	2	<10	<2	1.5	3	8	172	<5	200
HI-D 01393	Rock	2	—	<0.1	12	32	23	22	6	<3	2	<10	<2	3.9	7	16	72	<5	160
HSL 0 1	Soil	12	—	0.5	39	192	134	307	96	<3	1	<10	<2	7.8	14	28	69	<5	26
HSL 0 2	Soil	6	—	<0.1	32	59	83	92	17	<3	1	<10	<2	6.4	13	26	92	<5	25
HSL 0 3	Soil	3	—	<0.1	25	70	88	126	25	<3	<1	<10	<2	6.8	13	24	95	<5	24
HSL 0 4	Soil	<2	—	<0.1	32	43	108	68	13	<3	1	<10	<2	6.9	12	29	63	5	18
HSL 0 5	Soil	3	—	0.2	22	55	82	99	19	<3	2	<10	<2	6.4	9	17	137	<5	24
HSL 0 6	Soil	<2	—	0.2	24	48	83	93	13	<3	1	<10	<2	5.3	9	19	102	5	22
HSL 0 7	Soil	<2	—	0.6	23	54	87	94	20	<3	<1	<10	<2	6.0	8	21	140	<5	19
HSL 0 8	Soil	3	—	0.5	26	104	117	115	37	<3	<1	<10	<2	6.0	9	24	151	<5	19
HSL 0 9	Soil	<2	—	0.4	31	67	87	101	25	<3	1	<10	<2	6.4	12	25	144	<5	18
HSL 010	Soil	12	—	0.4	28	77	148	256	31	<3	1	<10	<2	7.6	11	26	151	<5	22
HSL 011	Soil	9	—	0.3	38	86	156	131	49	<3	1	<10	<2	7.8	16	35	108	<5	26
HSL 012	Soil	3	—	0.6	24	77	92	133	31	<3	1	<10	<2	6.5	10	20	167	<5	20
HSL 013	Soil	<2	—	0.1	25	35	90	50	7	<3	1	<10	<2	6.5	11	26	80	<5	22
Minimum Detection		2	0.07	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1
Maximum Detection		10000	1000.00	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000	10000
Method		FA/AAS	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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CERTIFICATE OF ANALYSIS
iPL 98I1019

Client : Homestake Canada Inc
Project: 90820 Yukon

15 Samples
2=Rock 13=Soil

[101911:18:12:89092998]

Out: Sep 25, 1998
In : Sep 22, 1998

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
HI-D 01392	2	254	7	20	5	<1	<0.01	0.20	0.72	0.75	0.04	0.11	0.01	0.01
HI-D 01393	13	284	12	16	6	1	<0.01	0.70	0.32	1.72	0.23	0.12	0.02	0.01
HSL 0 1	20	630	30	7	2	1	0.01	1.16	0.08	3.72	0.29	0.07	<0.01	0.08
HSL 0 2	22	437	34	9	2	1	0.01	1.23	0.10	3.15	0.33	0.07	<0.01	0.05
HSL 0 3	28	472	30	6	2	1	0.01	1.58	0.06	3.33	0.36	0.07	<0.01	0.05
HSL 0 4	21	440	30	6	1	1	0.01	1.23	0.05	3.49	0.24	0.05	<0.01	0.05
HSL 0 5	36	390	20	12	1	1	0.01	1.43	0.10	3.12	0.33	0.05	<0.01	0.06
HSL 0 6	26	268	18	11	1	1	0.01	1.30	0.11	2.77	0.33	0.05	<0.01	0.06
HSL 0 7	19	353	20	10	3	1	<0.01	1.22	0.09	3.01	0.29	0.05	<0.01	0.07
HSL 0 8	17	303	25	17	2	2	<0.01	1.14	0.20	2.90	0.33	0.06	<0.01	0.04
HSL 0 9	18	550	22	14	3	2	<0.01	1.09	0.15	3.09	0.31	0.04	<0.01	0.04
HSL 010	33	574	18	25	2	1	0.01	1.42	0.26	3.65	0.33	0.06	<0.01	0.09
HSL 011	25	558	29	16	1	2	0.01	1.29	0.19	3.85	0.47	0.06	<0.01	0.07
HSL 012	29	452	20	38	2	1	0.01	1.36	0.45	3.16	0.28	0.06	<0.01	0.11
HSL 013	24	555	22	13	1	1	0.01	1.25	0.08	3.26	0.37	0.05	<0.01	0.06
Minimum Detection	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS
iPL 98I0933

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

Homestake Canada Inc
Project : Yukon 90820
Shipper : Mike Papageorge
Shipment: PO#:
Analysis:
Au(FA/AAS 30g) ICP(AqR)30

Comment:

56 Samples Out: Sep 10, 1998 In: Sep 04, 1998 [093309:33:54:89092598]

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B211	32	Rock	crush, split & pulverize	12M/Dis	03M/Dis
B111	24	Soil	Dry & sift to -80 mesh, discard reject.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

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Canada
Att: Mike Papageorge Ph:604/684-2345
Fx:604/684-9831
Em:yukonexp@homestake.com

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0313	FA/AAS	ppb	Au FA/AAS finish 30g	Gold	2	10000
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	1000.00
03	0354	FAGrav	g/mt	Ag FA/Grav in g/mt	Silver	0.3	99999.0
04	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
05	0711	ICP	ppm	Cu ICP	Copper	1	20000
06	0714	ICP	ppm	Pb ICP	Lead	2	20000
07	0730	ICP	ppm	Zn ICP	Zinc	1	20000
08	0703	ICP	ppm	As ICP	Arsenic	5	10000
09	0702	ICP	ppm	Sb ICP	Antimony	5	1000
10	0732	ICP	ppm	Hg ICP	Mercury	3	10000
11	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
12	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
13	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
14	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
15	0710	ICP	ppm	Co ICP	Cobalt	1	10000
16	0718	ICP	ppm	Ni ICP	Nickel	1	10000
17	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
18	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
19	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
20	0729	ICP	ppm	V ICP	Vanadium	2	10000
21	0716	ICP	ppm	Mn ICP	Manganese	1	10000
22	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
23	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
24	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
25	0736	ICP	ppm	Sc ICP	Scandium	1	10000
26	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
27	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
28	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
29	0712	ICP	%	Fe ICP	Iron	0.01	10.00
30	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
31	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
32	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
33	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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• Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 98I0933

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

Client : Homestake Canada Inc
Project: Yukon 90820

56 Samples
32=Rock 24=Soil

[093309:33:54:89092598]

Out: Sep 10, 1998
In : Sep 04, 1998

Sample Name	Type	Au ppb	Au g/mt	Ag 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
20728	Rock	7	—	—	0.4	26	83	54	59	<5	<3	7	<10	<2	2.4	21	66	252	<5
20729	Rock	9	—	—	0.4	19	48	4	21	<5	<3	2	<10	<2	0.5	2	10	64	<5
20730	Rock	4	—	—	1.3	15	835	5	17	<5	<3	3	<10	<2	0.6	1	8	36	<5
20731	Rock	40	—	—	0.4	8	21	23	<5	<5	<3	3	<10	<2	1.8	5	12	156	<5
Minimum Detection		2	0.07	0.3	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5
Maximum Detection		10000	1000.00	99999.0	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000
Method		FA/AAS	FAGrav	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS
iPL 9810933

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

Client : Homestake Canada Inc
Project: Yukon 90820

56 Samples
32=Rock 24=Soil

[093309:33:54:89092598]

Out: Sep 10, 1998
In : Sep 04, 1998

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
20728	138	56	213	10	10	3	7	0.08	1.87	0.05	2.40	1.65	0.81	0.02	0.02
20729	212	3	24	<2	2	1	<1	<0.01	0.04	0.04	0.53	0.01	0.01	0.01	0.02
20730	289	<2	28	<2	2	1	<1	<0.01	0.03	0.01	0.45	0.01	0.02	0.01	<0.01
20731	132	8	410	3	87	1	1	0.03	0.35	1.72	1.86	0.09	<0.01	<0.01	0.02
Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

APPENDIX 3 CORRESPONDENCE WITH MAYO MINING RECORDER

IM	NAME	GRANT No.	CURRENT Exp. DATE	NEW Exp. DATE
EY01	51F	YB65141	1998/10/13	2000/10/13
IE101	52	YB65142		
HE101	53	YB65143		
HE101	54	YB65144		
NE101	123	YB65146		
HE101	124	YB65147		
HK	14 Fr	YB65872	1998/09/25	2000/09/25
HK	15 Fr	YB65873		
HK	16 Fr	YB65874		
HK	17 Fr	YB65875		
HK	18 Fr	YB65876	1998/09/27	2000/09/27
HK	19 Fr	YB65877		
HK	22 Fr	YB65880		
HK	23	YB65881		
HK	24 Fr	YB65882		
HK	25 Fr	YB65883		
HK	26 Fr	YB65884		
HK	27 Fr	YB65885		

Sept 22/98

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

OFFICE DATE STAMP

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

I (Name) BRIAN TRAUB Occupation GEOLOGIST

(Postal Address) P.O. BOX 11115, 1100 - 1055 WEST GEORGIA ST VANCOUVER, B.C. V6E 3P3

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	51F	YB 65141	HK 14 Fr	YB65872	HK 23	YB 65881
HEIDI	52	YB 65142	HK 15 Fr	YB65873	HK 24 Fr	YB 65882
HEIDI	53	YB 65143	HK 16 Fr	YB 65874	HK 25 Fr	YB 65883
HEIDI	54	YB 65144	HK 17 Fr	YB65875	HK 26 Fr	YB 65884
HEIDI	123	YB 65146	HK 18 Fr	YB 65876	HK 27 Fr	YB 65885
HEIDI	124	YB 65147	HK 19 Fr	YB 65877		
			HK 22 Fr	YB 65880		

situated at LAKE CREEK Claim Sheet No. 116 A/5

in the MAYO Mining District, to the value of at least $ 3600.00

dollars, since the 10th day of SEPTEMBER 19 98,

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).

REFER TO ATTACHED LIST.

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.)

WORK COMPLETED ON SEPT 10/1998. WORK CONSISTED OF GEOLOGICAL AND GEOCHEMICAL PROSPECTING BY A CREW OF 4 GEOLOGISTS.

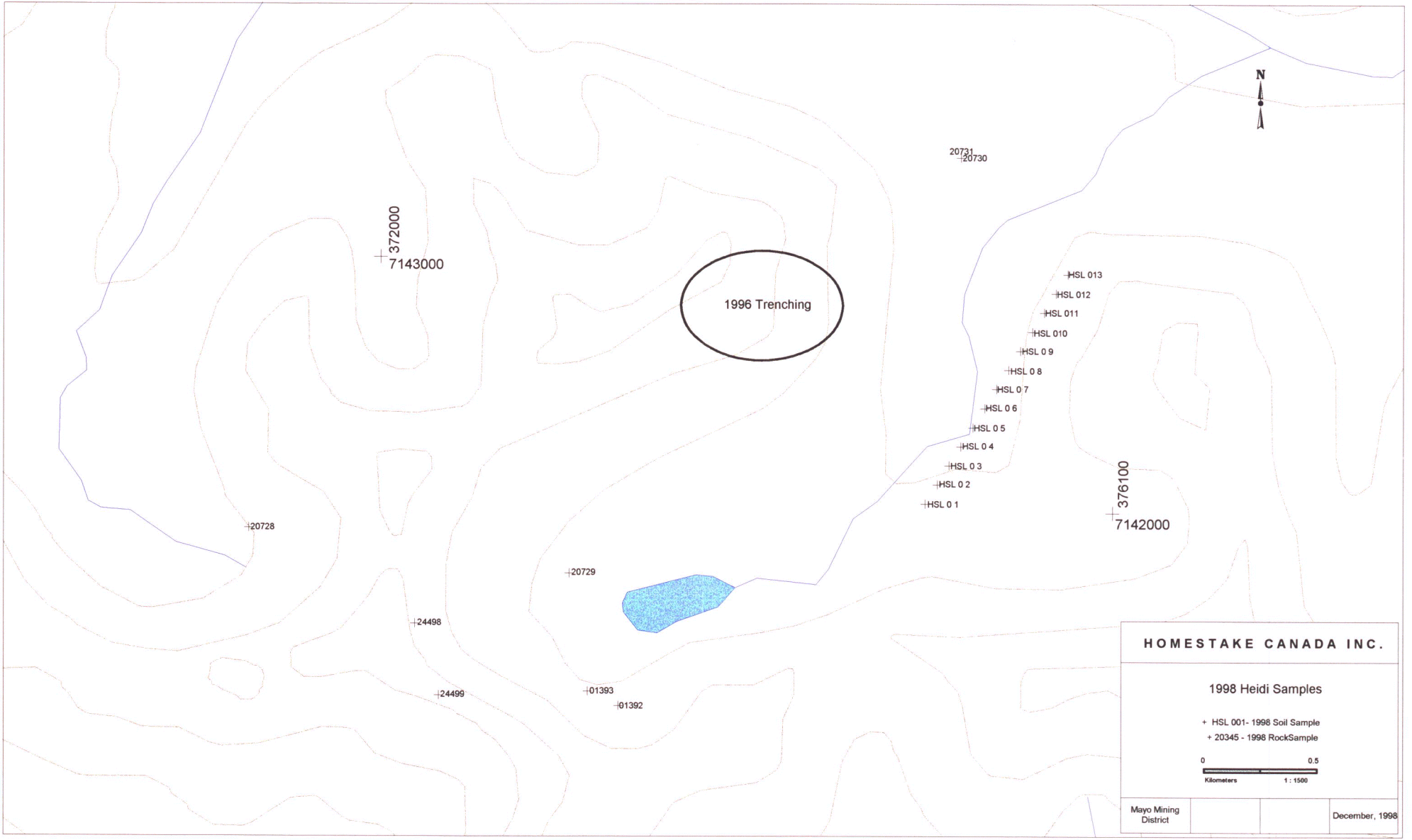
Sworn before me at MAYO

this 22 day of SEPTEMBER 1998.

Notary Public

Applicant

APPENDIX 4 SAMPLE LOCATION MAP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7143000
1996 Trenching
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20730
HSL 013
HSL 012
HSL 011
HSL 010
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HSL 0 6
HSL 0 5
HSL 0 4
HSL 0 3
HSL 0 2
HSL 0 1
376100
7142000
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24498
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01393
01392
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+ HSL 001- 1998 Soil Sample
+ 20345 - 1998 RockSample
0
0.5
Kilometers
1 : 1500
Mayo Mining District
December, 1998