# Summary report - YMIP Grant # 00-086

Grassroots- prospecting of uplands of Hasselberg Lake , map sheet 105A/13

coordinates: 129\* 55' w.L., 60\* 50' n.L.

Watson Lake Mining District

Dates of program: Sept.17th 2000 - Oct. 6<sup>th</sup> 2000

Grassroots - prospecting N of Ten Mile Point, 18 km NW of Teslin, map sheet 105C/07

coordinates: 132\* 55' w.L., 60\* 18' n.L.

Watson Lake Mining District

Dates of program: Oct.23rd 2000 - Nov. 5th 2000

author: Heiko Mueller

**YUKON ENERGY MINE: & RESOURCES LIBRARY**PO Box 2703
Whitehorse, Yukon Y1A 2C6

### Summary Hasselberg Lake area

### Location and Access:

Uplands N of Hasselberg Lake. Access by helicopter or 4 wheeler via trail from Campbell Highway

#### Previous Work:

none in relevant area

### Details of evaluation:

Work consisted of conventional prospecting: breaking rocks supplemented by soil and stream sediment geochemistry.

Work was focused on mafic and ultramafic intrusive. Three targets were identified: contact zone to schist, magnetic anomaly high and magnetic bull eye anomaly.

#### Methods:

The uplands of Hasselberg Lake were prospected for ultramafic hosted PGE, cobalt and chromium mineralization from Sept.17th till Oct.6th 2000.

Rock samples, soil samples and stream sediment samples were taken.

Rock samples were obtained as grab samples of outcrop or float, placed in plastic bags and labeled for chemical analysis.

Soil samples were collected from holes dug with a geotul, and placed in numbered Kraft soil bags. A soil line was established where in increments of 100m soil samples were taken. The soil line was orientated in a way to cross a magnificent magnetic anomaly from their fringe to the anomaly center and a bull eye configuration.

Stream sediment samples were collected from creeks and streams by digging holes in the stream bed with a shovel and placing the extracted material in a gold pan. Because of a lost sieve the sediment were hand sorted and frequently watered to avoid losing fine material clinging to wasted pebbles and gravel. The sediment residue (still quite coarse) were placed in plastic bags and labeled. At least 1kg of sediment per bag was collected. Later high grading of the sediment was not carried out due the lack of fine meshed sieves.

#### **Analytical Methods:**

The majority of samples collected during prospecting were analyzed in one batch by Acme Analytical Laboratories Ltd. of Vancouver.

All shipped samples were analyzed by the group 1D and AU, Pt,Pd. The procedure were as follows: 0.5g sample leached with 3ml 2-2-2 HCL-HNO3-H2O at 95\*C for one hour, diluted to 10ml and analyzed by ICP-ES.

Soil and stream sediment samples were dried at 60\*C and up to 100g sieved to -80 mesh. Rock samples were crushed, split and pulverized to 250g of mesh -150 particle size.

### Analytical results:

Pt and Pd values were not anomalous and in background range.

Highest values returned were 23ppb Pt and 12ppb Pd. Nickel cobalt and chromium highest levels are: 2070 ppm Ni, 143 ppm Co, 1955ppm Cr.

#### **Evaluation**

The prospected area is characterized by a sharp contoured magnetic anomaly, which corresponds to the outcrop of ultramafic ophiolites and a contact to schist. The contact strikes along camp creek (named after the camp location). The uplands W of the camp are mainly composed of greenstone and hornblende schist, dipping towards the contact with the intrusive. The mafic and ultramafic ophiolites are composed of serpentinite, pyroxenite and hornblendite, typically dissected by serpentine veins and sometimes abundant magnetite. The ophiolite complex is morphological expressed by a high elevation plateau and gentle ridges.

The stream sediment data of the preciously carried out geochemical reconnaissance indicate high levels of chromite, cobalt and nickel.

The anomalous levels of these elements are also confirmed by results of the geochemical assay of the rock and soil samples.

The highest grades are: 2070 ppm Ni, 143 ppm Co, 1955ppm Cr.

Grades for Pt and Pd were disappointing within the background level. Highest grades are 23 ppb Pt and 12 ppb Pd.

Magnetite is associated with chromite. This fact is confirmed by the correlation of Fe-content to Cr-grades.

An another obvious direct correlation is found between Ni-grades and Mg-level. The Mg-levels are in a range expected for ultramafics. The average Mg-levels of slightly under 10% of the assayed ultramafics indicates them as not mantle derived.

The geological setting and structural appearance of the ultramafics exhibits an extensive alteration.(tremolite, steatization, serpentine veining, adjacent schist as contact)

It can be speculated, the original intrusion was not chromite and magnetite enriched but underwent later regional metamorphose alteration. As a result of that magnetite and chromite were introduced (hydrothermal?), displayed in magnetite banding at margin of serpentine and chrysotile veins, as fillings of fissures and the distorted appearance of macroscopic magnetite. Several metamorphic events can be structurally observed.

### Conclusions and recommendations:

The suppose genesis does not leave much room for a potential of PGE mineralization. Nevertheless only a small part of the intrusive body could examined, also leaving short the area of the magnetic bull eye anomaly. The results of soil samples approaching this area are encouraging and ward a further inspection. Personally I still believe this area has potential.

### **Appendicies**

```
#1 aeromagnetics
#2 traverses A,B,C
#3 traverses D,E,F
#4 traverses G,H,I
#5 traverses J,K,L
#6 traverses M,N,O
#7 traverses Q, stream sediment locations S
#8 samples with Ni>1000ppm
#9 samples with Co>100ppm
#10 samples with Cr>1000ppm
#11 samples with Mg>10%
#12 sample locations
#13 assay results
```

### Summary Teslin Lake area

#### Location and Access

E of Alaska Highway, N of Ten Mile Point, 18 km N of Teslin Access by foot from Alaska Highway

### Previous Work:

none in relevant area, adjacent REO claims (lapsed) on gold prospect

### Details of evaluation:

Work consisted of conventional prospecting: breaking rocks supplemented by soil and stream sediment geochemistry.

Work was focused on mafic and ultramafic intrusive. Main target was a magnetic anomaly, corresponding to the outcrop of the intrusives.

### Methods:

The area E of the Alaska Highway were prospected for ultramafic hosted PGE, cobalt and chromium mineralization from Oct.23rd till Nov.5th 2000. Prospecting was partly obstructed by snow of up to one foot high.

Rock samples, soil samples and stream sediment samples were taken.

Rock samples were obtained as grab samples of outcrop or float, placed in plastic bags and labeled for chemical analysis.

Soil samples were collected from holes dug with a geotul, and placed in numbered Kraft soil

#### bags.

Stream sediment samples were collected from creeks and streams by digging holes in the stream bed with a shovel, sieved to -4 mesh and placed in a gold pan. The water was drained and the sediment were placed in plastic bags and labeled. At least 1kg of sediment per bag was collected. Later high grading of the sediment was not carried out due the lack of fine meshed sieves.

#### Analytical Methods:

The majority of samples collected during prospecting were analyzed in one batch by Acme Analytical Laboratories Ltd. of Vancouver.

All shipped samples were analyzed by the group 1D and AU, Pt, Pd. The procedure were as follows: 0.5g sample leached with 3ml 2-2-2 HCL-HNO3-H2O at 95\*C for one hour, diluted to 10ml and analyzed by ICP-ES.

Soil and stream sediment samples were dried at 60\*C and up to 100g sieved to -80 mesh. Rock samples were crushed, split and pulverized to 250g of mesh -150 particle size.

#### Analytical results:

Pt and Pd values were not anomalous and in background range.

Highest values returned were 35ppb Pt and 11ppb Pd. Nickel cobalt and chromium highest levels are: 994 ppm Ni, 121 ppm Co, 1077ppm Cr.

### **Evaluation**

The prospected area is characterized by a distinct magnetic. The area N of Ten Mile Point are mainly composed of basalt and hornblendite schist, fewer greenstone and peridotite. Basalt is encountered in distinct towers and cliffs scattered throughout the dense treed area. Peridotite occur more often in the uplands closer to the Lone Tree Creek but are still scarce. Closer to the high of the magnetic anomaly rocks appear with sometimes intense rusty coating. Small specks of arsenopyrite are sparsely distributed. Basalt is frequently dissected by qtz veins up to 0.5 m thick and locally with bornite and malachite.

The stream sediment data of S100 at Ten Mile Creek show a noticeable higher value of gold of 789ppm.

Ultramafics were only very sporadic encountered ,partly due to the limited outcrop at lower elevation and the effects of glaciation.

Because of the unfavorable weather conditions the higher uplands closer to Lone Tree Creek could not evaluated, where the source of ultramafics is suspected.

#### Conclusions and recommendations:

The target area could only partly accessed and evaluated. The so far evaluated area does not indicate a source of PGE mineralization (mainly basalt). Despite these findings rocks closer to the magnetic high are higher in PGE and show a more favorable composition. Certainly the area is still worth to be checked out closer, especially in the vicinity to the magnetic anomaly.

### Appendicies

- #1 sample locations
- #2 traverses A,B,C
- #3 traverses D, stream sediment samples S
- #4 traverses E,F,G,
- #5 samples with Ni>1000ppm, Co>100ppm, Cr> 1000ppm, Mg>10%, Pt max
- #6 aeromagnetics
- #13 assay results: see Hasselberg Lake

## Summary Report – YMPI Grant 00-086

2000 daily prospecting diary - Heiko Mueller

## Sunday, September 17th, 2000:

Prospecting notes: Hasselberg Lake

After two days of waiting for clear weather to fly, departed Watson Lake from Trans North Helicopter base in Bell 205 to uplands of Hasselberg Lake with a Flying time of one hour.

Weather: in Watson Lake sunny, strong winds, showers and limited visibility while approaching target area.

Difficulties finding appropriate landing site, after extremely wet summer the ground is still swampy in most areas.

Camp set up on the left bank of unnamed creek draining into Hasselberg Lake; creek named Camp Creek, elevation 1490 m. at tree line.

Prospecting: upstream Camp Creek in the vicinity of campsite.

Stn.A1: 100m upstream of camp on left creek bank.

Float rock peridotite with blobs of magnetite, serpentine, surface steatized, brown stains on surface.

Stn.A2: 30m. upstream of A1 on left creek bank.

Hornblendite with minor disseminated magnetite, steatezed, and float rock.

Stn:A3: Opposite creek side.

Hornblendite with serpentine heeled fissures, equigranullar, and non-magnetic.

Area has approximately 5% outcrop mainly in creek vicinity.

Stn.A4: Left site of creek 300m. upstream from camp.

Greenstone schist outcrop with banded hornblende, foliated, dense,
Non-magnetic.

Stn.A5: 400m. NW from camp.

Pyroxenite, foliated with banded accumulations of pyroxene, steatized.

## Monday, September 18th, 2000

Showers and flurries, windy, 0\* C.

Set up food cage and kitchen area.

Prospecting: Right side of creek down stream from camp.

Stn.B1: 200m. SW from camp.

Green stone schist with qtz. filled fissures, foliation dipping at 20\* NE.

Stn.B2: 500m. SW from camp.

Outcrop of fractured schist. Continue south and return along creek to camp.

### Tuesday, September 19th, 2000

Showers with sunny breaks +5\*C snow melting.

Change setup of food cage, supporting trees unstable.

Prospecting: uplands W from camp

Stn.C1: 400m. SW from camp.

Out crop of schist, gray, fractured, vuggy.

Stn.C2: 500m. W from camp.

Claim post WB89426, VIVI, staked June 22<sup>nd</sup> 1997 by J.P. Ross.

Stn.C3: 800m. W from camp.

Float rock, hornblendite, and non-magnetic, dark gray, weak foliation.

### Wednesday, September 20th, 2000.

Sunny with showers +5\*C.

Work done on suspension of food containers, only a few tall and stable trees available for food cache.

Prospecting W from camp on uplands.

Stn.D1: 300m. WNW from camp.

Float hornblendite with bands of equegranular microscopic hormblende.

Stn.D2: 500m. NW from camp.

Float of peridotite with small specks of magnetite.

Stn.D3: 800m.NW from camp.

Small outcrop of schist, foliation dipping 30\* at 50\*.

Stn.D4: 1 Km. W from camp.

Gray schist with qtz. stringers heeled fissures filled with Mn.

Stn.D5: 800m. WSW from camp on uplands, area generally swampy with old drainage's Running parallel to Camp Creek, few outcrop, some float.

Hornblendite schist in chill zone of intrusive.

# Thursday, September 21st, 2000.

Sunny and calm 10\*C. previous night -15\*C.

Takes time the thaw out frozen stiff boots.

Prospecting: Upstream to saddle, and return along right side of creek.

Stn.E1: 500m. NW from camp.

Peridotite with magnetite nodules, float mottled apperence serpentine less the 50%, brownish specks of altered magnetite (hematite).

Stn.E2: 600m. NW from camp, inactive drainage.

Subcrop of sheared basalt with tiny specks of pyrite.

Stn.E3: 800m NW from camp.

Outcrop of hornblendite with serpentine filled fractures.

## Friday, September 22<sup>nd</sup>, 2000.

Overcast, fading sun, calm +6\*C.

Surprised by cow moose in camp feeding on brush.

Prospecting: Upstream Camp Creek to saddle continue northward to top of unnamed mountain 2km. North of camp, named mountain Lone Caribou Mountain. (LCM).

Stn.F1: 1km. NNW from camp, crossing claim line VIVI (lapsed).

Float with magnetite blobs, microscopic plagioclase (albite?), serpentine more than 90%, striatized.

Stn.F2: South slope of LCM, 1.5km. N of camp.

Hornblendite, dull green talc coating on surface, magnetite nodules, fissures filled with magnetite, microscopic tremolite.

Magnetite and associated chromite during metamorphism introduced.

Stn.F3: 50m. E of F2.

Serpentite with tremolite and magnetite, parallel fissures healed by magnetite and chromite (intruded as a result of hydrothermal metamorphism).

Stn.F4: 250m S of top of LCM.

Peridotite, magnetite nodules, mottled, steartized.

Stn.F5: Top of LCM, 2km. North of camp Steatized serpentinite, gangue fragment of serpentine vain, yellow brown stain (hematite and garnierite?) tiny bands of magnetite and chromite?

In the evening at twilight, a bull moose with an impressive posture passes through camp.

# Saturday, September 23<sup>rd</sup>, 2000.

Drizzle, fog, calm, later windy temp +3\*C.

Prospecting: Upstream towards saddle and beyond.

Stn.G1: 500m upstream from camp creek bed outcrop. Foliated hornblendite.

Stn.G3: 600m upstream NW from camp.

Hornblendite, macroscopic hornblende in sequences.

Stn.G4: 800m upstream NW from camp.

Foliated hornblendite, elongated lenses of nepheline? Embedded.

Stn.G5: 50m upstream from G4.

Pyroxenite with serpentine filled fissures, non-magnetic.

2<sup>nd</sup> sample: gangue fragment of serpentine vein, steatized, orange brown coating along vein margin.

Stn.G6: On saddle plain, 1.3 km NW from camp.

Tower of sheared, foliated hornblendite with qtz. Vein dissecting entire block of Over 5m, Vein 10cm thick and qtz. dry.

## Sunday, September 24<sup>th</sup>, 2000.

Rainy, windy +5\*C.

Prospecting: NE of camp, cross mountain ridge above camp, proceed towards 5000ft. Mtn.

Stn.H1: 600m NW of camp at tree line.

Pyroxenite outcrop, steatized, magnetite nodules, some muscovite, fissures filled With orange brown mineral (garnierite?).

Stn.H2: Ridge above camp.

Hornblendite with tremolite and (orthoclase?), brown hematite coating, Magnetite.

Stn.H3: 50m. SE of H2.

Hornblendite with red brown surface coating (talc), vainlets of serpentine

Stn.H4: 50m W of H3.

Serpentinite with pegmatic magnetite, chrysotile, tremolite plagioclase, Steatized, magnetite flattened and tabular as a result of regional Metamorphism.

Stn.H6: 1km NE from camp.

Pyroxenite with hedenbergite weakly magnetic.

Stn.H7: 300m SW of top of 5000ft mtn.

Peridotite with yellow brown specks (garnierite?), steatized.

Stn.H8: Edge of 5000ft mtn.

Fracture of serpentine vein.

### Monday, September 25<sup>th</sup>

Heavy rain all day, identify samples.

Prospecting downstream along Camp Creek.

Stn.I2: 300m downstream on right side of creek.

Peridotite float, magnetite nodules and fissure fillings, orange brown surface coating (talc).

Stn.I3: 400m SE from cam

Float of hornblendite with parallel qtz. stringers, pyrite specks.

### Tuesday, Septemer26th, 2000.

Frequent showers +4\*C.

Prospecting along ridge above camp northwards to LCM and northern extension

Stn.J1: Foot of LCM south of to

Peridotite, magnetite, associated with massive chromite, tremolite, 1 speck of Erythrite?

Stn J2: 500m SE of top

Massive serpentine vain fragments.

Stn.J3: 300m SE of top.

Peridotite, with larger tremolite minerals.

Stn.J4: 300m. NW of LCM.

Serpentinite, embedded magnetite nodules some altered into hematite? lamellar appearance), talc coating on surface

Stn.J5: N slope LCM. Basalt outcrop, large boulders.

Stn.J6: Knob at N extension of LCM

Peridotite, extremely magnetic, visible magnetite nodules, steatized.

Stn.J7: N most knob of LCM.

Peridotite, serpentine vain with shear stress striations in various directions (chrysotile like appearance), garnierite?

Stn.J8: Peridotite Stn.J9: N Edge of LCM, number of samples taken from upper slope, larger boulders with structural features.

arger councers with structural realtires.

Peridotite, with tremolite, macroscopic magnetite as nodules,

also in microscopic fillings of fissures, and in bands.

Serpentine bolder: Serpentine vein offset, Magnetite band located on margins magnetite stringers parallel to serpentine vein, Magnetite up to 1c m scattered throughout bolder, some magnetite rolled out and flattened.

## Wednesday, September 27th, 2000.

Overcast, windy +5\*C.

Prospecting along W slope of LCM.

Stn.K1: 1.5Km N of camp at S slope of LCM.

Peridotite, gray brown, steatized.

Stn.K2: 100m. W of K1.

Peridotite with tremolite up to 2cm, nodules of magnetite.

Stn.K3: 50m N of K2. Same as K2.

Stn.K4: 300m SW of mtn. top at tree line.

Peridotite, gray brown, magnetite (chromite) patches.

Stn.K5: 300m NW of mtn. Top.

Serpentinite with magnetite nodules, steatized surface (orange)

Single caribou observed like yesterday.

## Thursday, September 28th, 2000.

Showers windy +3\*C.

Prospecting plain in front of 5000ft mtn.

Stn.L1: 1.5km. NE of camp.

Pyroxenite composed of hedenbergite, non-magnetic.

Stn.L2: 100m N of L1.

Peridotite with brownish patched, steatized.

Stn.L3: 200m E of L2.

Hornblendite.

Stn.L4: Plateau top of 5000ft. mtn.

Hornblendite, aphanitic, dense, no magnetiet, yellow brown coating (garnierite)

Stn.L5: N slope of 5000ft. mtn.

Peridotite with shear planes and serpentine coating, magnetic, seatized.

Stn.L6: 50m E of L5.

Peridotite, magnetite on healed shear planes, yellow brown patches (hematite?)

Stn.L7: 100m N of L6.

Peridotite with serpentine bands.

Friday, September 29th, 2000.

Heavy rain through the night, flurries during the day, snow ling at 5500ft, -1\*C. Prospecting W from camp towards uplands of 6483ft mtn.

Stn.M1: 600m SW of camp.

Hornblende schist, foliation dipping at 20\* at 350\* towards intrusives macroscopic hornblende in bands not corresponding to foliation, plagioclase on fissure planes, some qtz. lenses, few specks on pyrite in host rock.

Stn.M2: Uplands W of camp.

Same as M1.

Return to camp watch bull moose on opposite hillside walking towards camp tried to avoid him by going further north. Temp drops in evening, tent frozen stiff, northern lights.

### Saturday, September 30<sup>th</sup>, 2000.

Overcast -8\*C.

Prospecting around 5000ft mtn.

Stn.N1: Close to plateau top of 5000ft mtn., area of previously found serpentine vein number of samples taken.

Peridotite with chrysotile veinlets, fibers up to 1cm long, scattered magnetite nodules, yellow green patches of garnierite, overall ashbrown plaque ore like appearance of rock.

Stn.N2: SW edge of plateau top.

Serpentine vein fragment with 2cm thick orange band on hanging wall, steatized, Close by sample with extensive tremolite of lilac color.

## Sunday October 1st, 2000.

Flurries and hail, overcast -10\*C.

Soil sampling starting at campsite (sample #22134) at 25\* azimuth towards LCM.

Sample #	Depth cm	Color	Horizon	Organic	Rock fragments	Texture	Slope
22134	10	Gray(gr)	B	Med	Med	Clay	Bank
22135	10	Gr/black	В	Lots	Med	Clay	Med W
22136	10	Gr/black	В	Med	Few	Clay	Gentle W
22137	20	Gr/black	В	Med	Few	Clay	Gentle W
22138	20	Gr/black	B/C	Med	Lots	Clay	Gentle W
22139	15	Green/brn	В	Med	Med	Clay	Gentle W
22140	20	Grn/yl/brn	В	Few	Med	Clay	Gentle W
22141	20	Grn/yl/brn	В	Med	Med	Clay	Gentle W

22142	20	Grn/gr/brn	В	Med	Med	Clay	Gentle W
22143	20	Grn/gr/yl	В	Med	Med	Clay	Gentle W
22144	20	Grn/brn	В	Few	Med	Clay	Gentle W
22145	15	- Gr/blk	В	Med	Med	Clay	Gentle W
22146	15	Yl/br	В	Med	Med	Clay	Ridge
22147	10	Grn/brn	B	Few	Med	Clay	Ridge
22148	20	Grn/brn	B	Few	Med	Clay	Ridge
22149	15	Grn/brn	В	Few	Few	Clay	Gentle NE
22150	20	Dark/brn	В	Med	Med	Clay	Gentle SE
22151	20	Dark/brn	В	Med	Lots	Clay	Gentle SE
22152	20	Dark/brn	В	Med	Lots	Clay	Med SE
22153	10	Dark/brn	В	Lots	Lots	Clay	Steeper SE

# Monday, October 2<sup>nd</sup>, 2000.

Clear cold night -18\*C., partly sunny -8\*C.

Prospecting and continuation of soil line of previous day at E slope LCN,

Stn O1: End of soil line.

Pyroxenite with hedenbergite, garnierite, disseminated

Stn.O2: 100m. NE of O1.

Pyroxenite, garnierite.

Stn.O3: 200m. NW of O2.

Peridotite, steatized.

Stn.O4: Peridotite with yellow and orange stains.

# Tuesday, October 3<sup>rd</sup>, 2000.

Sunny strong N winds, -5\*C.

Stream sediment sampling, due to a lost sieve sediment sorted by hand in a gold pan.

Sampling S1 and S2, 800m and 900m NW of camp.

Sample #	Location	Velocity	Width	Depth	Sediment	Direction
S1	Spring	Slow	1.0m	Bdrk/surf	Organic	S
S2	Creek/W	Fast	1.5m	Bdrk/surf	Gravel	W
S3	Creek/NE	Slow	0.4m	Sed/surf	Clay	NE
S4	Camp/Ck	Med	1.5m	10cm	Gravel	N
S5	Camp/Spr	Slow	0.3m	15cm	Clay	N
S10	NofMag	Fast	4.0m	10cm	Gravel	W
S11	SeofMag	Fast	4.0m	20cm	Gravel	W

## Wednsday, October 4th, 2000.

Cold night -22\*C. sunny 0\*C.

Stream sediment sampling and prospecting at the ridge above camp.

Sample S3 taken 300m. E of camp

Stn.Q1: Plateau NE of camp.

Peridotite with magnetite nodules.

Stn.Q2: Center of highland plateau (drainage line)
Peridotite.

Stn.Q3: 100m N of Q2
Peridotite with large tremolite needles.

Stn.Q4: 200m E of Q3
Peridotite with magnetite nodules.

### Thursday, October 5th, 2000.

Heavy snow fall -5\*C.

Stream sediment sampling S4 and S5, 200m upstream of Camp Creek and 200m W of camp in small drainage, data see table October 3<sup>rd</sup>.

### Friday, October 6th, 2000.

Overcast, melting snow, 0\*C.

Pack and prepare for departure, helicopter supported stream sediment sampling of S10 and S11, 4.5 km NE of camp, see table October 3<sup>rd</sup>. Arrival in Watson Lake 4:30 pm

### Teslin Lake area daily diary - Heiko Mueller

Monday, October 23<sup>rd</sup>, 2000

Overcast 1/2ft of snow, +4\*C.

Set up camp at 10 mile point boat launch.

Stream sediment sampling S100 and S101 at Ten Mile Creek 400m E of Alaska Highway.

Sample #	Location	Velocity	Sediment	Width	Depth	Direction
S100	10 Mi Ck	Med	Gravel	3.0m	10 cm	NE
S101	10 Mi Ck	Med	Gravel	3.0m	20 cm	NE
S102	No sample	Taken				
S103	Moose Ck	Med	Silt	0.5m	10 cm	E
S104	Moose Ck	Med	Grvl/silt	0.5m	10 cm	Е
S105	Long Ck	Fast	Gravel	2.0m	10 cm	Ē
S106	Ln Tre Ck	Fast	Gravel	2.0m	20 cm	W

## Tuesday, October 24th, 2000.

Overcast +3\*C

Prospecting upstream Ten Mile Creek and left foothills, dense forest and undrebrush, area glaciated.

Stn.A1: 3 km NE of camp.

Basalt outcrop with phenocrysts of plagioclase.

Stn.A2: 100m. N of A1.

Float basalt with qtz stringers, dull qtz. with hematite stain.

Stn.A3: 300 N of A1.1

Basalt, aphanitic, qtz. stringers, orange stain;

Hornblendite silicified close by.

Stn.A4: Cliff 300m N of A3.

Basalt with qtz. fissures.

## Wednesday, October 25th, 2000.

Sunny +4\*C.

Prospecting 2.5 km NE of camp, area of Mtn. Lake.

Stn.B1: Right side of Mtn. Lk. Ck.

Basalt outcrop as part of semigraben running parallel to Teslin Lake, glacial ice movement along these structures from SE to NW, sessions of semigrabens with same orientation.

Stn.B2: 300m E of B1.

Float greenstone with chrysotile, fiber max.2mm long, silicified, and also hornblende

qtz, hematite.

Stn.B3: Cliff on W shoreline of mtn. Lk 20m long trench running E-W, N wall Intersected by qtz. vain, dull qtz. wall composed of gray basalt.

Stn.B4: Foothills E of mtn lk. ascending mtn., thick underbrush.

Basalt cliffs with qtz. vainlets and bornite, intensely faulted.

# Thursday, October 26th, 2000.

Overcast -2\*C.

Prospecting E of mtn. lk.

Stn.C1: Close to B3.

Basalt cliff with 0.5m thick qtz. vein, striking 25m, vein with pyrite, bornite, malachite, number of samples taken from vein, foot and hanging wall.

Stn.C2: 400m NE of C1 in semigraben valley.

Basalt tower with intense metallic redbrown stain (vanadinite?).

Stn.C4: 600m E of highway. Basalt cliff.

### Friday, October 27th, 2000.

Cloudy, -2\*C. strong N winds.

Prospecting N of mtn lk.

Stn.D1: Foothills N of mtn lk, semigraben.
Basalt layered, manganese stain, faulted.

Stn.D2: Close to Moose Ck, 1.5km NW of D1.

Serpentinite with little specks of arsenopyrite, non-magnetic.

Stn.D3: 200m W of D2.
Serpentinite simular to D2.

Saturday, Odctober 28th, 2000.

Overcast, light snow fall, -4\*C.

Stream sediment sampling S103, S104, at tributary to Moose Ck. 2km NE of Highway, S105 on Moose Ck. 1km N of S 104.

Data see table October 23<sup>rd</sup>.

Return to Whitehorse to get stove and discuss glaciation of area with Jeff Bond

### Thursday, November 2<sup>nd</sup>. 2000.

Overcast snowfall -4\*C. 1 ft of snow.

Soil sampling T100 to T104, uphill slope of plateau mtn N of Long Ck.

Sample #	Depth in cm	Color	Horizon	Organics	Rock fragment	Texture	Slope
T100	20	Brown	В	Few	Few	Silt	Med
T101	20	Grn/brn	В	Few	Few	Silt	Med
T102	20	Grn/brn	В	Few	Med	Silt	Gentle
T103	25	Grn/brn	В	Few	Med	Silt	Med
T104	20	Brown	В	Few	Few	Silt	Med
T110	25	Red/brn	В	Few	Lots	Silt	Gentle
T111	20	Red/brn	В	Med	Med	Silt	Flat
T112	20	Grn/gry	B	Med	None	Člay	Flat

Prospecting SW of plateau mtn, area of megnetic high.

Stn.E1: Outcrop of peridotite, ash colored, rusty, disseminated magnetite.

Stn.E2: 300m SE of plateau mtn, end of soil line (T104).

Peridotite, black, foliated planes in different directions.

## Friday, November 3<sup>rd</sup>, 2000.

Overnight snow, calm cloudy 0\*C.

Soil sampling T110 to T112, N of Lone Tree Ck. in glacial shadow of little knob See above table November 2<sup>nd</sup>.

Prospecting in same area.

Stn.F1: 800m E of Alaska Highway.

Outcrop of young basalt, aphanatic, not mineralized.

Stn.F2: 200m NE of F1.

Outcrop of older basalt, steatized, Mn-stain, foliated

Stn.F3: 200m W of F2.

Peridotite.

Saturday, November 4<sup>th</sup>, 2000.

Light snowfall, sunny -8\*C.

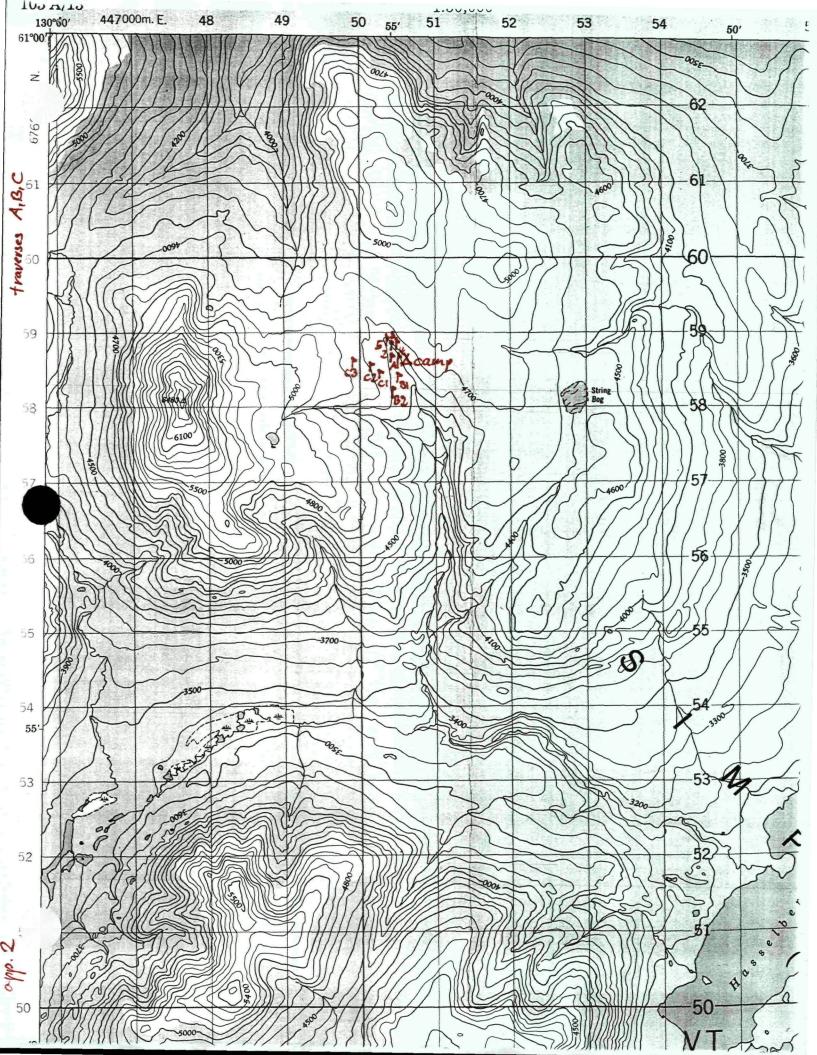
Prospecting S of mtn. lk.

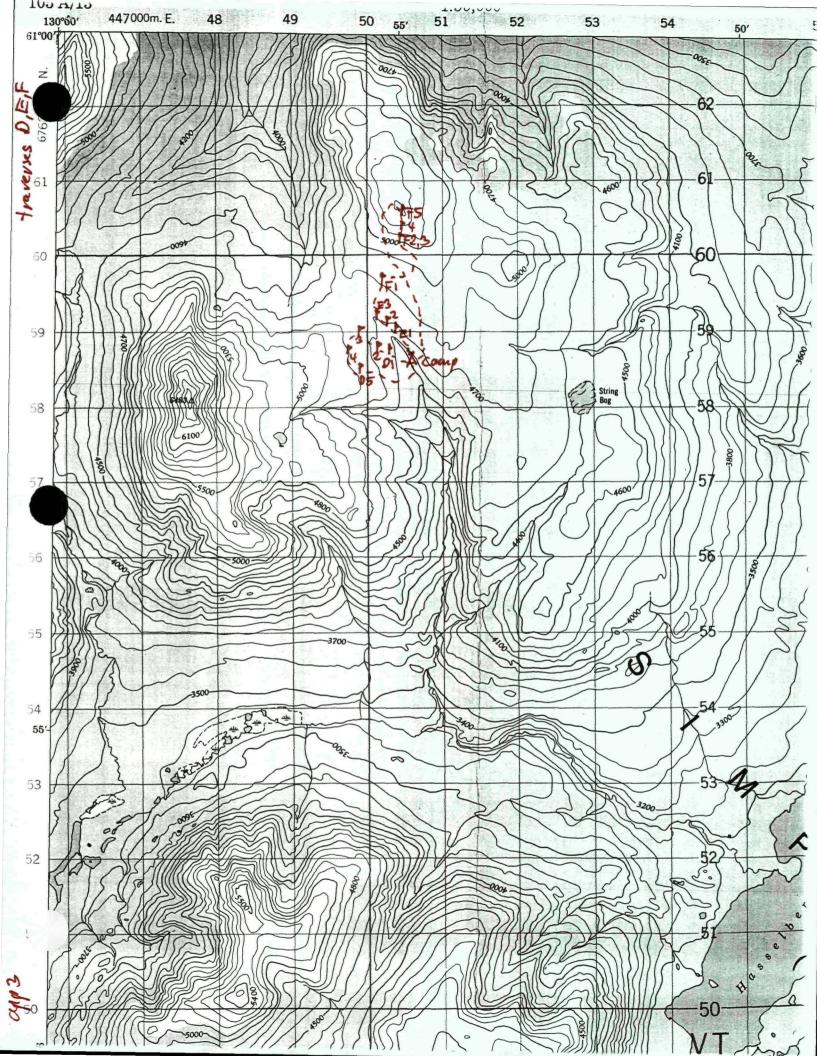
Stn.G1: 1.2 km SW of mtn lk.

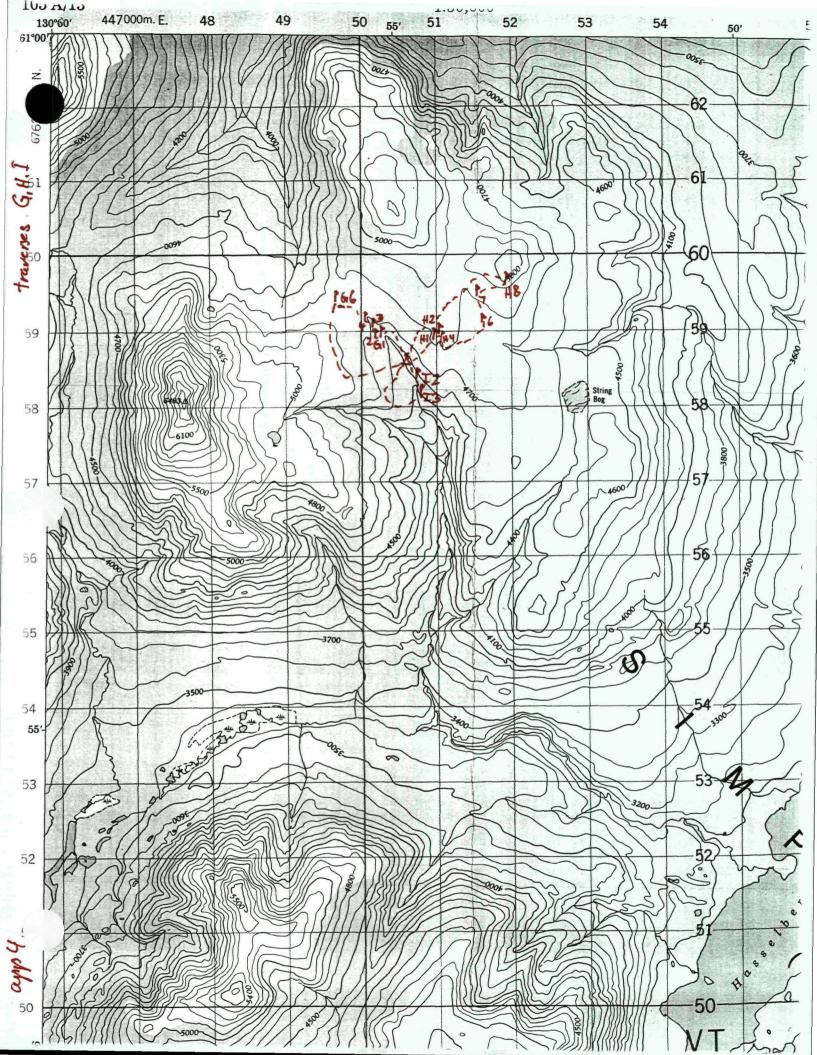
Hornblendite with macroscopic hornblende, yellow brown patches, non-magnetic.

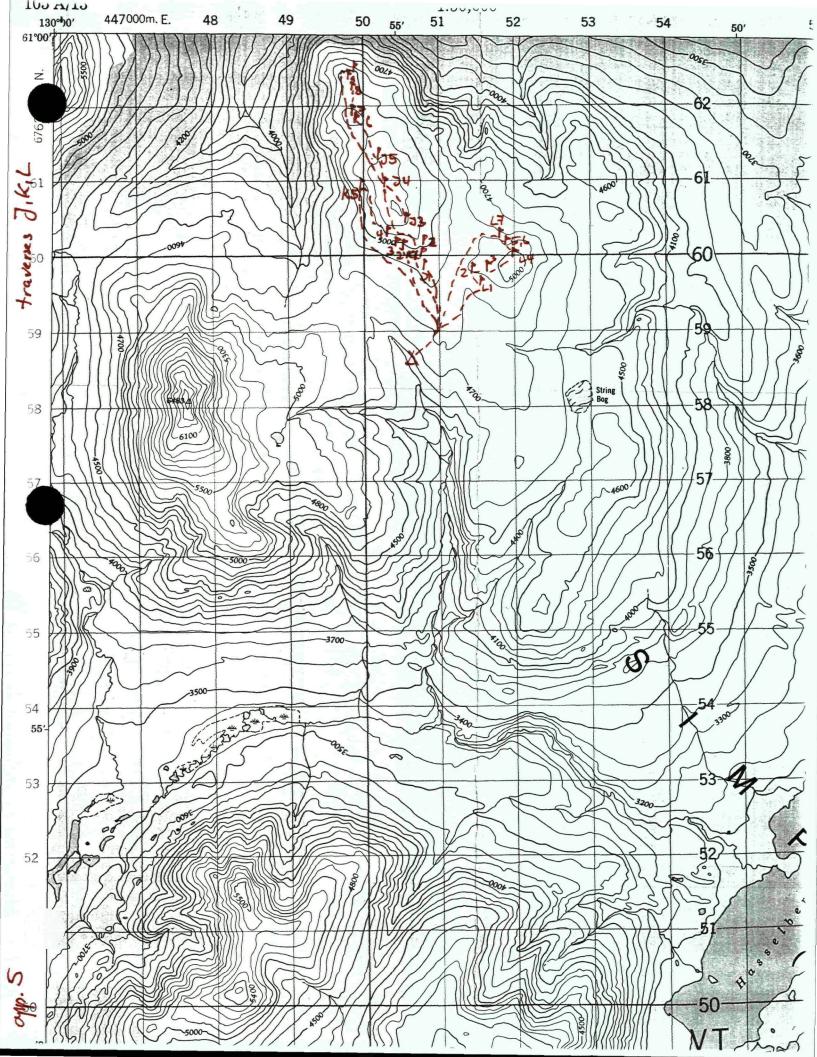
Stn.G2: 800m SW of mtn lk Same as G1.

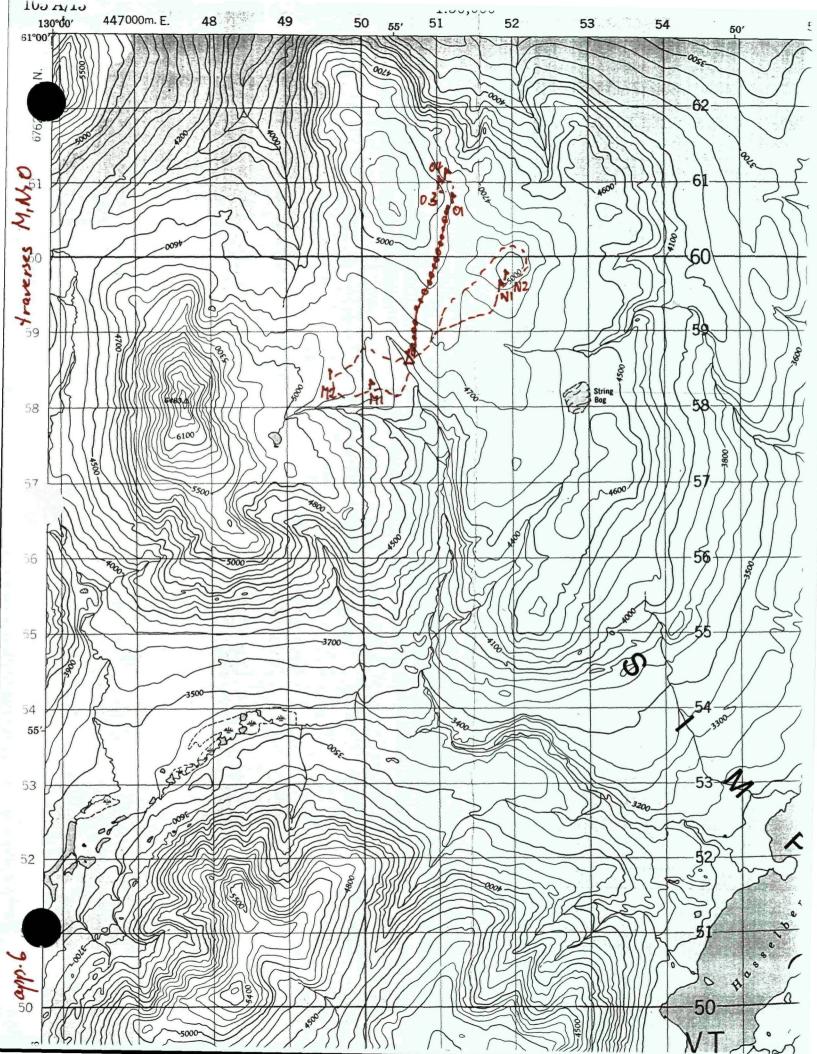
Sunday, November 5<sup>th</sup>, 2000. Light snowfall –5\*C. Fold camp and prepare for departure. Stream sediment sampling S106 100m E of Alaska Highway at Lone Tree Ck. See table October 23<sup>rd</sup>,

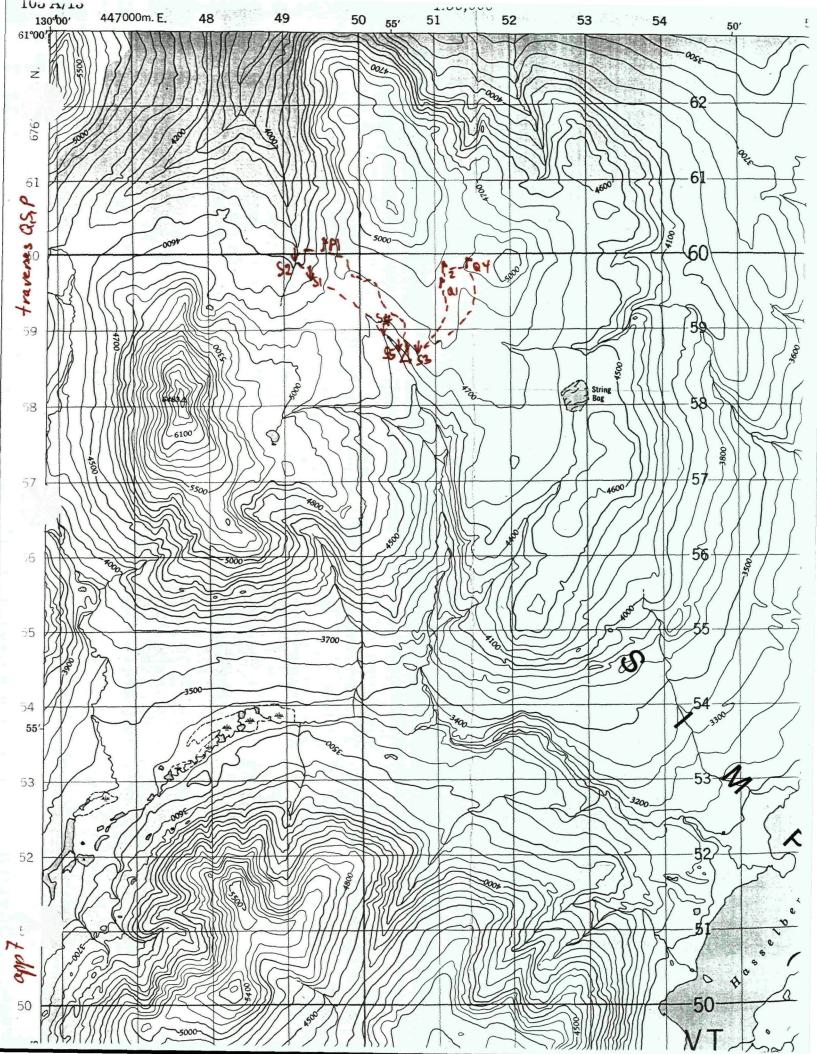


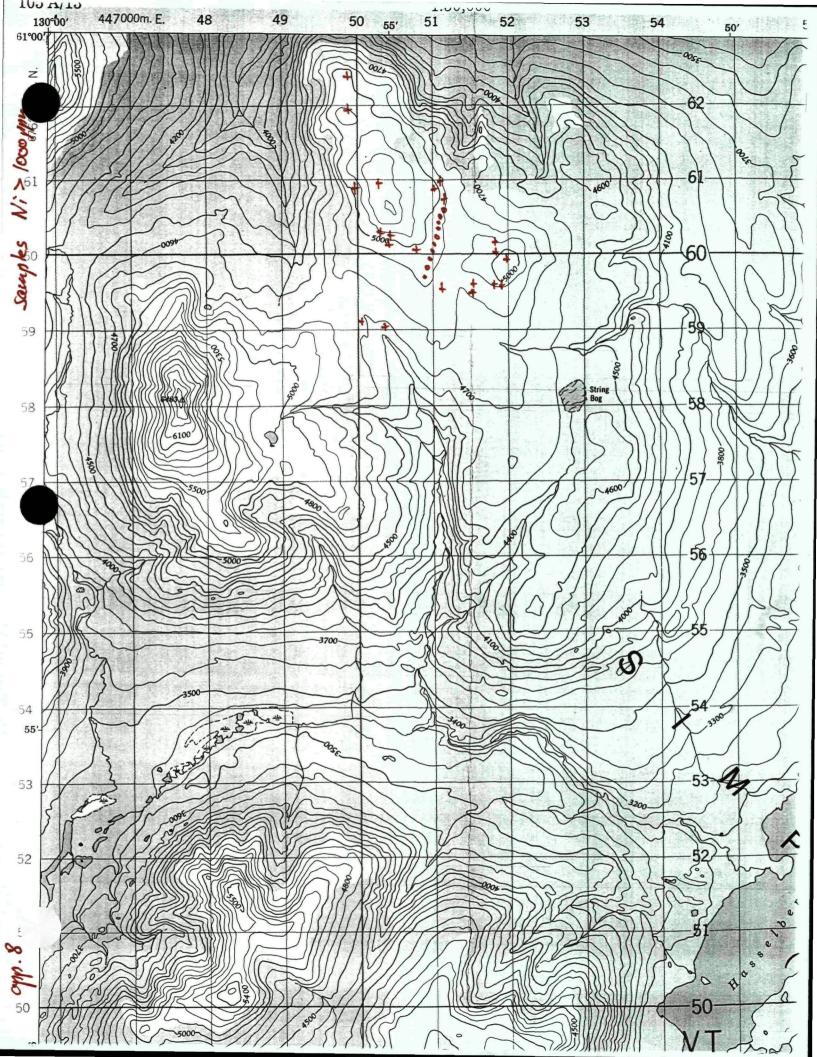


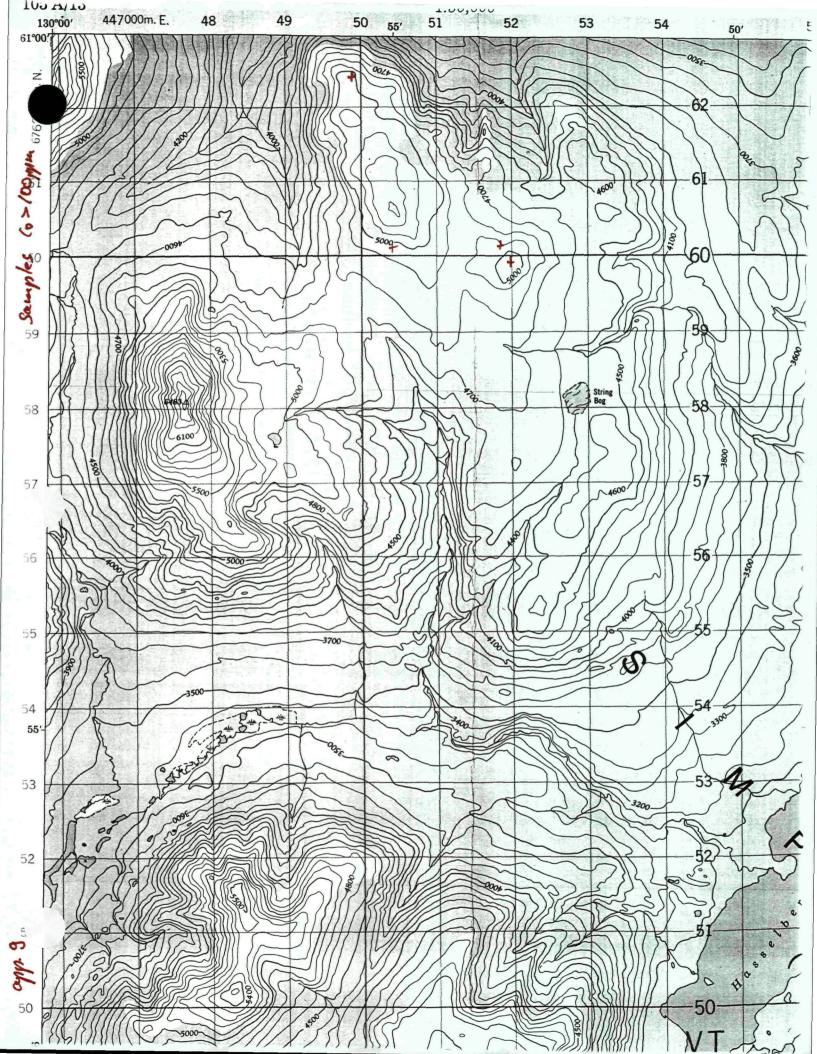


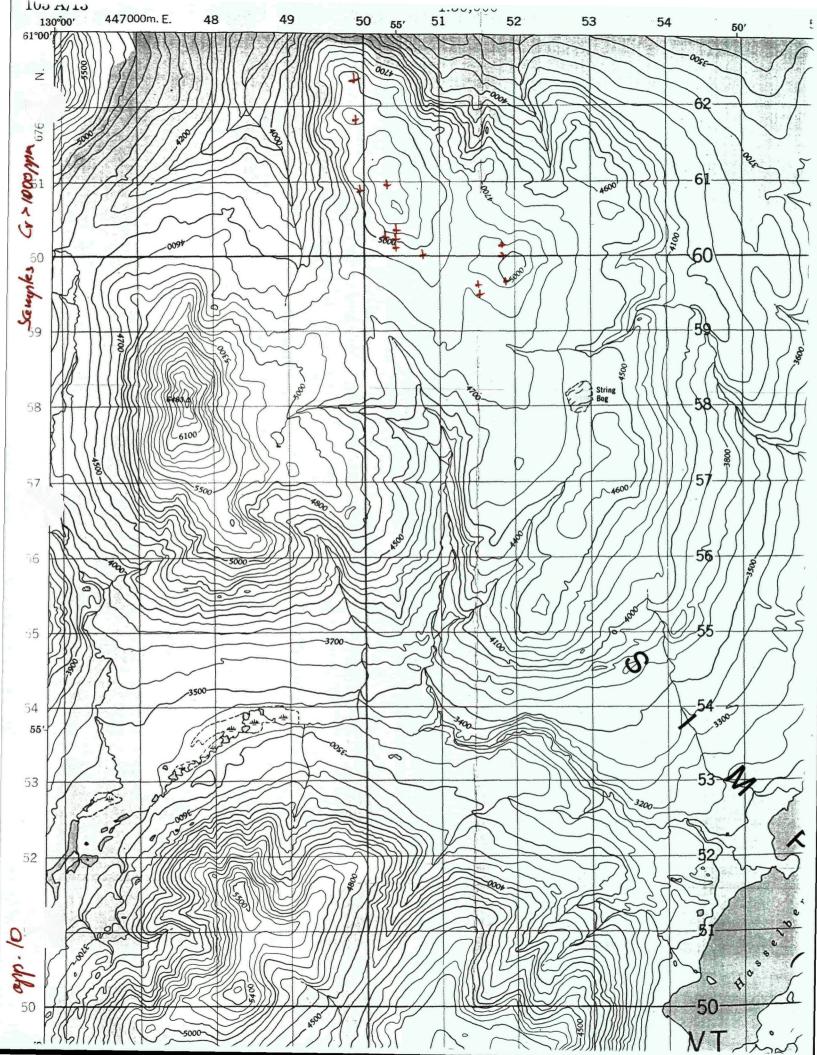


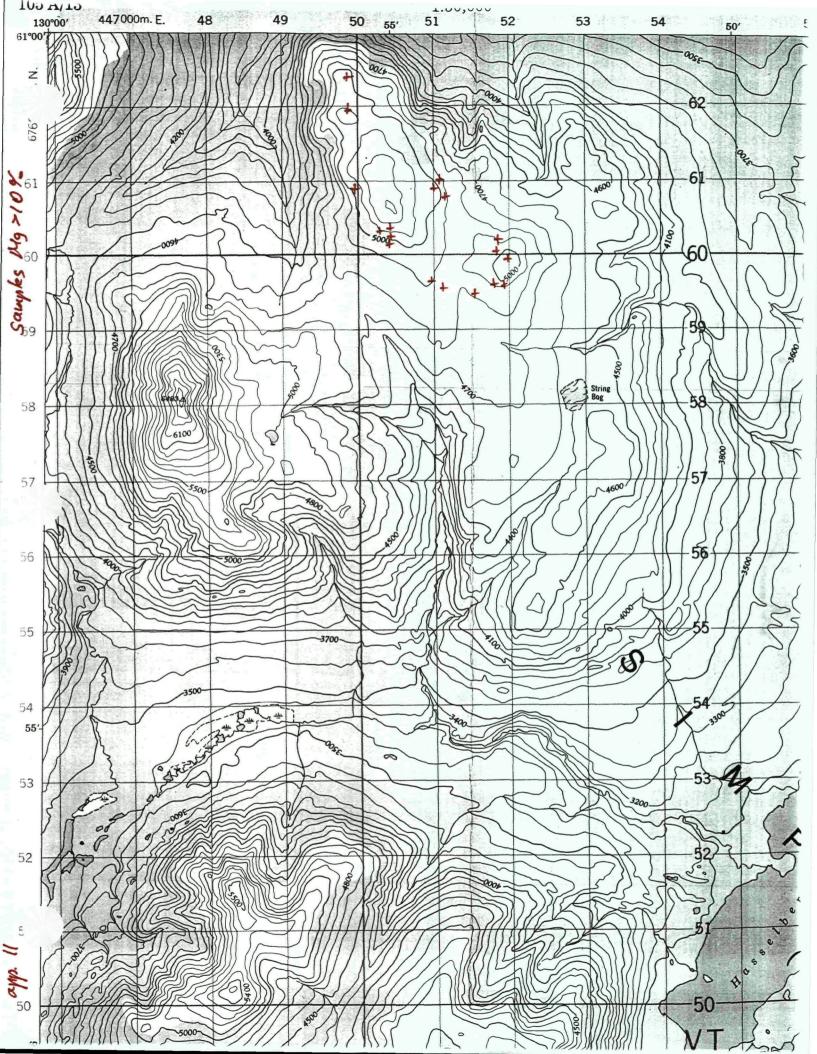












PROVISIONAL MAP 105 A/13 1:50,000 51 130°00′ 447000m E 55' Oppendix 12. Sample locations Hasselberg Labe 6762000m N 101 HB+ H8 String Bog 

								Mu Re			He	i k										1										
SAMPLE#	Mo prom		Pib Pibra I			ppm H (	Co pon	Nn ppm	fe X	Ae ppm	pper U		Th	٩r	Cd	SP SP	81	٧		ρ	La	Cr PPm		bbu ge	Υ( * p	-	Ai i		K id X ppm	Au** ppb		
023202 C1 023203 C1 3 023204 C2 3 023206 D2 023209 B4	1	44 63	5	1 E 38 53	€.> €.> €.>	12 210 16 27 34		131 833 483 1145 839	4.49 5.87	11 62 25 9 5	<8 <8 <8	<2 <2 <2 <2	3		3.3 .3 .2 .3 .2	76 37 <3 3 <3	<3 <3 3	23 173 242	.78 6.09 1.01 3.16 2.47	.082	1 7 4 3 4	45 41	5.66 1.96 2.39		.01 .19 .30		87 .	01 . 08 . 04 .	16 2 09 2 10 2	16 6 14	3 3 3 5	<2 2 8 8
023210G1 023211E2 023212F3 023213 E1 023214 F2	1 1 3	67 12 2 5 6	3	75 35	(,) (,) (,)	148 297 108 994 114	78 37 121	1536 913 610 1385 443	9.38 5.11 6.17	69 10 18 6 20	8 8 8	42 42 43 44 45 47 48 49 49 49 49 49 49 40<	<2 <2 <2 <2 <2	345 4 21 1 12	.8 .7 <.2 .3 <.2	d	3	102 106	.11		°3	1077 136 78	5.12 6.78 3.23 21.10 3.34	53 . 2<.	11	J 1. J 2. J 2.	67 77 02<	01 . 03 . 0i<.	01 <2 05 42 01 <2	6		11 <2 9 <2 8
-023215 F1 166002 F2 166003 H7 166005 E1 166006 04	₹i ₹i	86 10 5 10 8	000	7 18	₹.\$ 【.} 【.}	23 1307 1112 1025 1640	18 71 66 50 74		4.49 4.71 2.52	14 23 13 15	<8 <8 <8 <8	<1 <2 <2 <2 <2	∢2	2	<.2 <.2 <.2 <.2 <.2	4	3	42 26 23	.01		र व व व व	1331 651 666	1.42 11.44 9.82 9.51 12.95	5¢. 1¢. 8¢.	01 01 01	19 .		01<. 01<. 01<.	01 2 01 <2 01 <2	3	2 4 <2 2 5	5 4 •2 •2 •3
166007 02 166008 03 0 RE 166008 166010 L6 3 166011 25	4 4 4 4	11 3 4 4 3	4	10 12 18	<ul><li>3</li><li>4.3</li><li>4.3</li></ul>	1360 1366 1415 1339 1595	63	438 437 449 534 704	2.97 3.05 4.17	3 39 38 2 7	<8 <8 <8 <8	<2 <2 <2 <2 <2	<b>(2</b>	c1 c1 c1 c1	<.2 <.2 <.2 <.2 <.2	3	<3	10	.16	.004	<br </td <td>574 590 1075</td> <td>10.93 12.15 12.70 11.38 11.45</td> <td>44. 64.</td> <td>0) 01 01</td> <td>21 . 25 . 26 .</td> <td>13&lt;.1 19&lt;.1 20&lt;.1 17&lt;.1</td> <td>01 c. 01 c. 01 c.</td> <td>01 &lt;2 01 &lt;2 01 &lt;2</td> <td>2</td> <td>6 3 4 6 4</td> <td>3 2 3 2 2</td>	574 590 1075	10.93 12.15 12.70 11.38 11.45	44. 64.	0) 01 01	21 . 25 . 26 .	13<.1 19<.1 20<.1 17<.1	01 c. 01 c. 01 c.	01 <2 01 <2 01 <2	2	6 3 4 6 4	3 2 3 2 2
166014 L4 2166015 L2 2166018 L1 0166019 J3 23 166020 J9	41	23 2 141 2 6	Ø	11 11 5	ί.> ί.> ί.>	1790 1111 75 332 1338		925 393 155 963 430	1.16	1236 72 5 5 34	<b>√8</b> <b>√8</b> <b>√8</b> <b>√8</b>	<2 <2 <2 <2 <2	<2	<1 73 1 41	.3 <.2 <.2 <.2	ã		12	4.65< .04	.003	4	1150 25 433		13<. 42 12<.	01 : 01 · 01	5 . 5 6. 5 .		01<.47 .4 01<.4	01 <2 02 2 01 <2	4 <2	7 6 2 5 8	5 2 <2 <2 2
7 166022 29 5 166023 79 7 166025 29 166026 79 166029 K4	***	3 10 6 4	<3 <3 0 <3	2 13	<.3 <.3 <.3	1381 1266 1223 1021 1604	77 55 55 93 90	547 315 287 722 733	2.73 3.54 7.11	17 17 18 40 28	₹8 ₹8 ₹8 ₹8	<2 <2 <2 <2 <2	42 42 42 43	4	<.2 <.2 <.2 .4 <.2	9	4	33	.01	.003	∢I	579 617 714	10.04 9.46 8.91 9.54 13.99	3<. B<.	01 01 01	23 . 21 . 26 .	08<.( 08<.( 07<.( 10<.(	01 (.) 01 (.) 01 (.)	01 <2 01 <2 01 <2	17 19 4	7 11 10 6 2	<2 9 2 <2 <2
166030 K3 166031 K2 166032 K5 166033 H4 STANDARD C3/FA-10R	<1 <1 <1 26	8 7 4 1 66	43	34 51 3	ζ, <b>)</b> ζ, <b>)</b> ζ, <b>)</b>	1657 1549 1560 339 41	78 60 36	704 546 1039 510 795	3.14 3.56 3.24	17 17 12 3 58	<8 <8 <8 19	<2 <2 <2 <2 <2	₹ ₹2 ₹2	4	.2 ‹.2 ‹.2 ‹.2 23.8	40	000	19	.02 .02 .03	.004 .003 .004 .004	त त त	1191 968 708	14.79 15.16 15.25 3.80	2<. 3<.	01 4 01 4	27 . 33 .	08<.( 11<.( 06<.( 09<.( 83(	01 c.( 01 c.(	01 4 01 3 01 <2	<2 6 2 2 476	6 7 5 5 471	2 4 <2 <2 469
STANDARD G-2	1		4					553	2,17	(2	<8	٠2	4	78	<.2	(3	a	42	.68	.105	8	80	.61	243 .	14	<u>. </u>	96 .0	)8 .4	<del>(</del> 9 3	•	<u>.</u>	•

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, AMALYSED BY ICP-ES.

UPPER LIMITS - AG, AU, NG, W = 100 PPM; NO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1X, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE; ROCK RISO 60C AUA\* PT\*\* PD\*\* GROUP 3B BY FIRE ASSAY & AMALYSIS BY ULTBAYICP. (30 gm)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

STOWNED BY ... . .... D. TOYE, C.LEONG, J. WANG; CERTIFIED

SSAYERS FA

lifeta 10"



Mueller, Heiko

FILE # A004715

Page 2



ACHE AUGUSTICAL	ACME AMM TITCA
SAMPLEN	Mo Cu Pb Zn Ag Ni Co Mon Fe As U Au Th Sr Cd Sb Bi V Ce P Le Cr Mg Be 11 B Al Ne K V Au <sup>e A</sup> Pt A <sup>+</sup> Pd** ppm
166034 H2 166035 H3 166036 F3 166037 F4 166038 G4	<pre>&lt;1 5 &lt;3 21 &lt;.3 699 42 765 3.19 3 &lt;8 &lt;2 &lt;2 3 &lt;.2 &lt;3 43 14 .09 .004 &lt;1 672 9.79 5&lt;.01 4 .29&lt;.01 &lt;.01 &lt;2 4 2 2 &lt;1 9 &lt;3 58 &lt;.3 841 53 629 3.15 3 &lt;8 &lt;2 &lt;2 7 &lt;.2 &lt;3 43 25 .16 .006 &lt;1 988 7.17 25&lt;.01 3 .39&lt;.01 &lt;.01 &lt;2 6 7 8 &lt;1 9 &lt;3 19 &lt;.3 1508 83 638 2.84 15 &lt;8 &lt;2 &lt;2 &lt;1 &lt;.2 3 3 20 .01 .002 &lt;1 1238 13.61 2&lt;.01 21 .18&lt;.01 &lt;.01 &lt;2 12 8 9 &lt;1 10 &lt;3 9 &lt;.3 570 32 271 1.37 16 &lt;8 &lt;2 &lt;2 &lt;1 &lt;.2 3 3 3 3 3 18 .12 .003 &lt;1 949 11.62 4&lt;.01 19 .23&lt;.01 &lt;.01 &lt;2 6 23 12 2 10 7 91 &lt;.3 49 12 514 3.25 9 &lt;8 &lt;2 11 2 &lt;.2 &lt;3 &lt;3 97 .20 .079 22 70 .90 136 .20 &lt;3 2.03 .04 1.08 6 2 &lt;2 &lt;2</pre>
166039 63 166042 A4 166044 I3 166046 A5 166047 A2	1 96 6 126 .6 191 64 857 6.97 2 9 <2 <2 116 .6 <3 <3 200 2.75 .094 2 227 3.55 741 .28 <3 5.53 .21 2.03 2 23 2 6 <1 34 <3 63 <.3 155 31 434 3.60 2 <8 <2 <2 99 .4 <3 <3 129 2.48 .111 2 324 2.57 910 .27 <3 4.18 .29 1.19 <2 3 2 <2 1 17 7 105 <.3 32 9 355 3.98 6 <8 <2 10 3 <.2 <3 <3 62 .15 .073 30 42 .81 263 .23 <3 2.24 .04 1.41 3 6 4 4 1 99 11 42 <.3 166 24 302 2.90 3 <8 <2 <2 149 .3 3 <3 126 3.86 .091 4 396 1.53 140 .25 <3 5.41 .22 1.06 2 2 <2 <2 <1 87 7 32 <.3 125 26 302 2.64 <2 <8 <2 <2 99 .4 <3 <3 91 2.47 .078 5 250 1.43 229 .19 3 3.43 .43 .20 3 3 4 4
7 166048 76 7 166050 77 8 RE 166050 9 166401 74	c1       1       3       23       <.3
2 166403 J5 5 166405 Q1 4 166407 C14 H 166410 F5 166411 NI	<1 <1 <3 18 <.3 206 37 267 5.54 10 <8 <2 <2 <1 <.2 <3 <3 77 .10 .002 <1 70 5.43 4 .01 3 2.00 <01 3 <3 22 <.3 1001 57 479 2.04 2 <8 <2 <2 <1 <.2 3 3 17 .04 .003 <1 857 12.34 4 <.01 8 .20 <01 8 <3 37 <.3 1273 67 892 3.62 75 <8 <2 <2 <1 <.2 3 <3 22 <.01 .006 <1 1474 9.81 71 <.01 49 .14 <01 1 3 23 <.3 461 36 425 4.28 <2 <8 <2 <2 <1 <.2 <3 <3 <5 .24 <01 5 15 <.3 664 37 182 4.09 6 <8 <2 <2 <1 <.2 <3 <3 <2 .2 <3 <4 <0.01 <1 700 7.02 7 .01 <3 4.65 <01 00 7.02 7 .01 <3 4.65 <01 00 7.02 7 .01 <3 4.65 <01 00 7.02 7 .01 <3 4.65 <01 00 7.02 7 .01 <3 4.65 <01 00 7.02 7 .01 <3 7.01 <01 00 7.02 7 .01 <3 7.01 <02 <2 2 3 4 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
166412 NI 166415 HG 166416 HI 166417 NT 166418 HB	<1 1 <3 22 <.3 2070 92 595 6.26 13 <8 <2 <2 <1 .2 5 3 43 .14 .004 <1 1578 12.93 13 .01 47 .56<.01 <.01 <2 6 <2 <2 <1 25 <3 9 <.3 125 14 238 2.73 2 <8 <2 <2 <1 <.2 <3 <3 61 .32 .006 <1 872 1.11 21 .01 <3 .31 <.01 <.01 <0 <4 7 6 <1 13 <3 11 <.3 1219 77 485 3.36 2 <8 <2 <2 22 <.2 <3 <3 33 1 .82 .004 <1 829 8.64 8<.01 <3 .29<.01 <.01 <2 3 3 9 <1 34 <3 67 <.3 1484 81 1033 5.14 6 <8 <2 <2 1 .2 <3 <3 39 .03 .004 <1 1498 10.69 53 <.01 1
166419 HY 166420 N2 Standard C3/fa-109 Standard G-2	<1 <1 <3 7 <.3 408 38 651 4.28 <2 <8 <2 <2 8 <.2 <3 <3 36 .20 .003 <1 1009 8.02 7 <.01 <3 .11 <.01 <.01 <2 7 <2 2 <1 <1 3 5 <.3 562 16 69 .67 2 <8 <2 <2 1 <.2 3 <3 20 .21 <.001 <1 14 7.74 2 .01 <3 3.46 <.01 <.01 <2 2 <2 <2 26 68 40 173 5.6 42 12 808 3.60 59 20 <2 22 31 23.6 17 23 82 .61 .098 20 185 .63 155 .09 20 1.88 .04 .18 14 477 464 486 1 3 <3 42 <.3 9 4 564 2.17 <2 <8 <2 4 79 <.2 <3 <3 40 .69 .104 8 83 .62 242 .13 <3 .98 .08 .49 2

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

AAT .	g G.	14.4		C				Ros	GE Mus 3001	11		Н	<b>e 1</b>				i i	BR	11	TCA 23 8 B	TF.												A	
Bajip Leii	Ho ppm			-	_	, Hí ppn		ibibiu Nu		As ppm	-			8r		8b	81	٧	Ca X	ρ	Le ppm	Cr		Ba ppn	71 <b>X</b> 1		Al X	Na X	K X j		ppb  ue+	pt** ppb	Pd** ppb	
22134 22135 22136 22137 22138	1 :	30 7 26	10	20	₹.5 ₹.5 ₹.5	52 8 56	5 8 2 8 5	741			8889	<2 <2	_	6 20 5 6 6	c.2	444	0000	71 42 68	.55 .03 .07		19 13 13 11 20	75 18 88	. 67	213 47	.03 .09 .15	4 <3 <3	1.70 1.86 .74 1.47	.02	. 23 . 08 . 20	3	2 2 <2 <2 <2	Q Q2 2 3 42	42 42 42 2	
22139 S 22140 J 22141 S 22142 S 22143 S	44444	35 23 13	13 11 13 12 12	65 49 81	c,3 c,3 c,3	91 38		292 222 150 213 391	3.63 2.98 3.06	7 8 7 4 6	<8 <8 <8 <8	42 42 43 43 43 43 43 43 43 43 43 43 43 43 43	3 3 3	6 5 5 6	.3	0 0 0 0	100	81 55	.07 .04 .07			174 1 70 1 <b>38</b>	.01 .44 .66		.11 .11 ,14	0	1.50 2.24 1.41 1.64 1.94	.01	. 16 . 25 . 19	2	2 2 2 2 3	·2 ·2 ·2 ·2 ·6	<2 4 <2 <2 2	
22144 7 22145 7 22146 7 22147 7 22148	त त त त त	17 26 14	8	57 57 45	€.3 €.3 €.3	293 490 708 678 501	20 62 27	250 285 715 273 349	J.36 5.18 3.07	5 15 3 4	(8 (8 (8 (8	₹2	3 2 2 4 2	6 3 8		4	444	41 72 32	.11	.029 .068 .033 .026 .032	10 / 5 :	294 482 1 712 4 567 2 539 2	.44 .48	140 82 83	.05 .09	J	.92 .85	.01	.05 .03 .02	<2 <2 2 3	<2 2 5 4 2	5 5 5 5	2 3 42	
RE 22149 22149 22150 22151 22152	4 4 4	12 12 8	8	49 78 56	<.J <.J <.3	530 637 515	32 59 53	358 355 1009 918 1146	3.25 5.21 3.38	5 4 8 4 3	48 48 48	€	<2	9 10 9	.3	<3 <3	3 3 4	35 44 31	80. 80.	.115	16 ! 9 ! 8 !	534 1 539 1 860 2 526 1 849 2	.91 .30 .79	87 139 101	. 05 . 02 . 02	4 4 6	.94 .95 .84 .87 .58	10. 10. 10.	. 02 . 05 . 04	1 2 3 (2 2	4 3 2 4 5	3 6 6 2	5 2 3 42 3	
22153 023222 TIIC 023223 TIII 023224 TII2 023225 TICO		14 24 70	4	91 130 94	3.3 3.3 4.3	895 27 44 101 32	16 18 20	1993 616 346 802 475	2.58 3.60 4.36	8 2 7 9 7	<8	(2	₹2 2 5	7 20 23 78 19	.4 .3	3	Q	71 98 74	.10 .41 .45 1.40	.056 .041 .094	5 6 19	81 1	.53 28. 26.	222 176	. 10 . 16 . 16	3 3	.50< 1.70 2.41 2.52 1.41	.01	.06 .11 .14	<2 <2 2 2 3	19 3 <2 5 2	3 2 (2 3 (2	4 2 2 4 (2	
023226 TICI 023227 TIC2 023228 TIC3 023229 TIC4 STANDARD C3/FA-10R	<1 <1 <1 <1 26	17 17 19	3	67 47 57	c.3 c.3	24 53 46 35 39	19 13 14	596 334 277 431 773	2.90 2.21 2.81	3 4 6	48	<2 <2	2 3 2	19 17 23	.4	Ω Ω	() () ()	60 46 72	.31 .34 .33 .37 .58	.053	5 7 7 7	56 38	.94 .69 .77	144 123 120	.12 .09 .14	000	1.26 1.34 1.01 1.53 1.82	.02	.06 .07 .04	2 2 42 2 16	<2 3 9 2 481	<2 <2 3 4 473	(2 (2 2 2 474	
STANDARD G-2	)	3	()	42	<.3	8	4	533	2.06	<2	<b>48</b>	<b>&lt;</b> 2	_5	75	۷,2	<3	<b>43</b>	38	.65	.099	8	78	.58	232	-14	<b>&lt;3</b>	.92	.08	.47	3	<2	12	∢2	

GROUP 10 - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.

UPPER LIMITS - AG, AU, HG, N = 100 PPN; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, NM, AS, V, LA, CR = 10,000 PPN.

- SAMPLE TYPE: SOIL SS80 60C AU\*\* PT\*\* PD\*\* GROUP 38 BY FIRE ASSAY & ANALYSIS BY ULTRA/ICP. (30 gm)

Samples beginning 'RE' are Returns and 'RRE' are Reject Returns.

DATE RECEIVED: HOW 22 2000 DATE REPORT MAILED

Dec 4/00

SIGNED BY .... D. FOYE, C. LEONG, J. HANG; CERTIFIED B.C. ASSAYERS

	LABORATORERS LTD: 892 B. MASTERGS AT VANCOUVER SC. V6A LAG. PROVE (604)283-3198 VAN (604)283-1718  GEOCHENICAL ANALYSIS CERTIFICATE  MAGILLON, MSIKO  Box 100/4 Value of 1/4 bit led by 1/
SAMPLEN	NO CU PIS ZO AG NÎ CO MO FE AS U AU TH SO COI SIS BÎ Y CO P LO CO NG BO TÎ B AL NA K WALAM POM POM ÎNDRE PINE PINE PINE PINE PINE MINE ME POM PINE PINE PINE PINE PINE ME X X PINE X X PINE X X X PINE PINE PINE PINE PINE PINE PINE PINE
023216 5106 2 023217 5103	1 62 5 63 (.3 73 16 735 3.27 9 <8 <2 2 31 .4 <3 <3 69 .76 .070 7 82 1.79 144 .13 3 1.45 .02 .10 <2 51 4 <2 <1 29 <3 50 (.3 36 10 1162 2.18 7 <6 <2 2 44 .4 <3 <3 45 1.04 .067 9 41 .68 106 .10 6 .90 .01 .06 <2 11 2 2
023210 S/01	1 97 8 83 <.3 47 13 708 3.00 11 <8 <2 3 39 .6 <3 <3 65 .82 .077 10 55 1.03 157 .12 <3 1.27 .02 .10 2 110 2 <2 1 31 <3 50 <.3 40 10 1750 2.49 9 <8 <2 2 44 .6 <3 <3 49 1.00 .061 10 41 .69 130 .10 7 _89 .01 .06 <2 7 3 4
023220 3/00	1 74 10 68 <.3 47 12 682 2.97 8 <8 <2 4 40 .5 <3 <3 66 .83 .075 13 51 .93 161 .12 6 1.19 .02 .10 <2 789 2 <2 1 118 10 71 <.3 52 14 847 3.22 14 <8 <2 <2 41 .4 <3 <3 72 .99 .083 8 64 1.39 129 .13 3 1.72 .02 .08 2 110 7 4
166422 511 166423 510 166424 52	<1 30 11 57 <.3 339 23 657 2.49 15 <8 <2 3 20 .3 <3 <3 23 .42 .073 14 208 1.66 235 .04 3 1.26 .04 .11 3 22 <2 3 1 85 10 62 <.3 167 20 663 2.98 12 <8 <2 2 26 .3 <3 <3 55 .69 .060 8 196 1.65 174 .12 <3 1.66 .06 .17 4 103 <2 <2 1 61 18 77 <.3 62 16 707 2.79 17 <8 <2 3 25 .4 <3 <3 69 .68 .075 13 110 .99 177 .13 <3 1.83 .05 .27 6 58 <2 <2 <2 <4
TRE 166424	1 63 17 79 < 3 62 16 711 2.82 19 <8 <2 2 25 .4 <3 <3 70 .66 .075 13 111 1.00 179 .13 <3 1.85 .05 .26 5 62 <2 2
9 166425 55 166426 54 53 166427 51	1 131 255 458 4.4 295 33 486 6.28 219 <6 <2 6 28 1.1 <3 <3 81 .43 .188 70 131 .99 452 .10 <3 4.86 .01 .63 <2 34 <2 10 2 57 11 175 <.3 104 14 1064 3.19 19 <6 <2 2 22 .7 <3 <3 52 .64 .096 21 71 .72 233 .12 <3 1,89 .02 .35 3 2 4 4 1 86 <3 214 <.3 76 14 1981 2.07 47 <6 <2 <2 36 1.1 <3 <3 71 1.20 .126 14 145 .75 301 .05 3 2.48 .03 .12 <2 <2 3 5
SYANDARD CJ/FA-10R	1 33 5 114 <.3 117 21 439 3.46 17 <8 <2 3 14 .3 <3 <3 75 .36 .066 14 187 1.30 183 .15 <3 2.09 .02 .26 3 11 <2 3 25 63 32 169 5.5 39 10 749 3.33 55 19 3 20 29 22.4 15 22 75 .57 .091 19 168 .59 145 .09 21 1.81 .04 .16 16 482 475 474
STANDARO G-2	2 4 <3 45 <.3 9 4 543 2.10 <2 <8 <2 4 74 <.2 <3 <3 38 .65 .102 8 79 .60 235 .14 <3 .97 .07 .47 3 <2 4 <2

GROUP 10 . 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNG3-H20 AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES. UPPER LIMITS - AG, AU, HG, N = 100 PPN; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPN; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: STREAM SED. AUA PT\*\* PD\*\* GROUP 38 BY FIRE ASSAY & ANALYSIS BY ULTRA/ICP. (30 gm) Samples beginning 'RE' are Reruns and 'ARE' are Reject Reruns.

NOV 22 2000 DATE REPORT MAILED Det 4 40 DATE RECEIVED

BIGNED BY ........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

