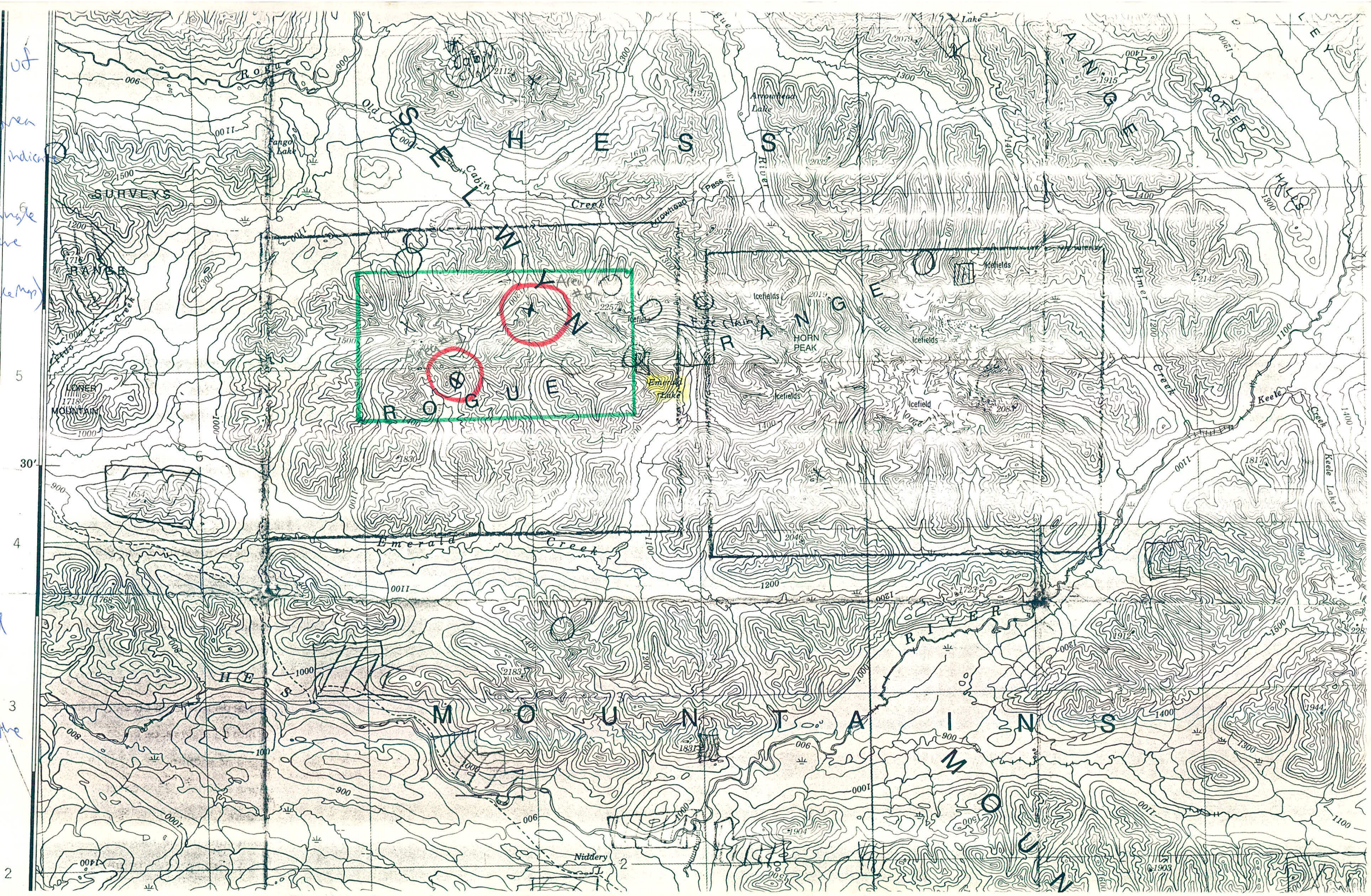


Area #1
North west of
Mac. Pass.
Emerald Lh. Area
- red circles indicate
areas of claims
green rectangle
is the area we
covered.
(1:250000 Scale Map)

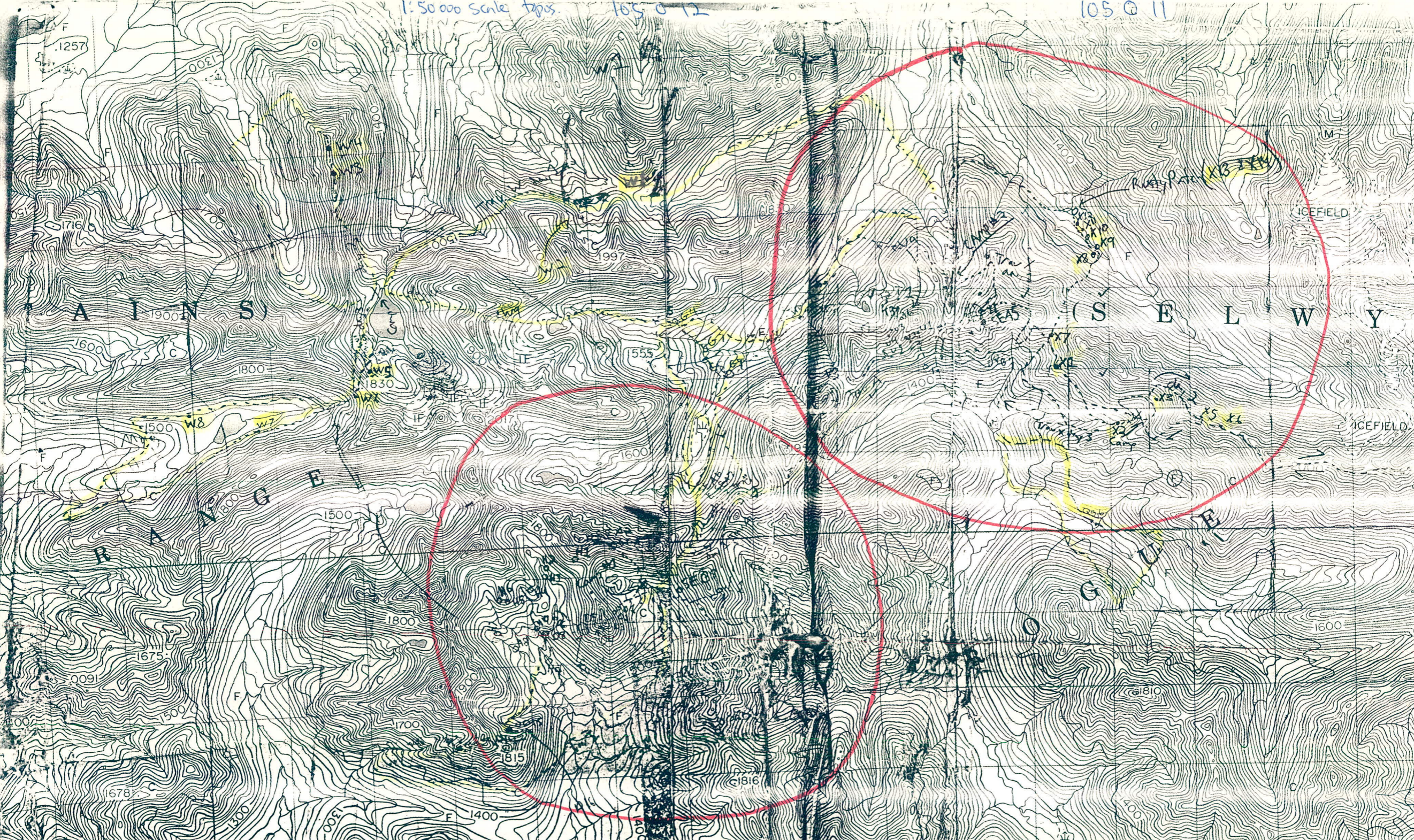
METRIC/MÉTRIQUE

The circled
areas are
shown on
1:50000 Scale
maps on
second sheet.



1:50,000 scale topog. 105 0 12

105 0 11



* Note we have sample locations & traverses drawn more accurately on hand drawn enlargements, except for Traverse W shown in the top left

The Scronk Claims (A porphyry associated skarn deposit)

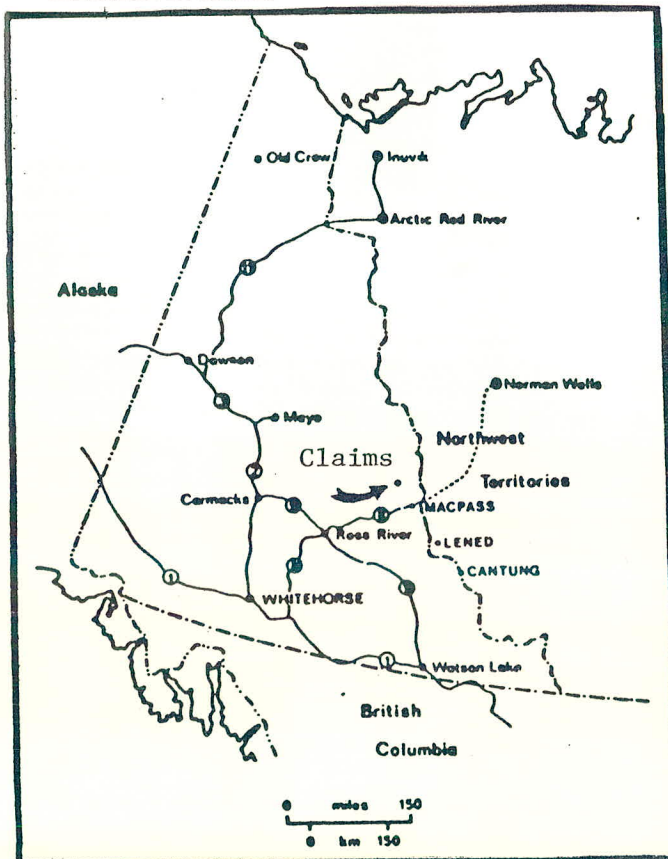
Location

The Scronk claims are located in a steep mountainous area of the Hess Mountains Yukon Territory, about 80 km north west of MacMillan pass.

Geology

A mesocratic porphyritic syenite intrusion is surrounded by a north dipping silicic sedimentary succession of shales, argillites, cherts, and minor pebble conglomerates.

Location of claims



Mineralization

A system of mineralized veins is continuous over a large area within the claim group. A zone up to 1400 m long and up to 700 m wide has been outlined. The density of veins within this zone varies from several veins per meter to one vein every two or three meters.

The porphyritic syenite has abundant mineralized quartz veins which follow jointing surfaces and fill fractures in random directions. These veins vary in width from a few millimeters up to 30 cm. Mineralization within these veins ranges from around 1 % sulfides, to almost 100 % sulfides, with arsenopyrite being the dominant sulfide. Galena, pyrite, pyrrhotite, and molybdenite were also present in the veins. One vein in this area (with abundant galena), assayed at 4.3 g/t gold, 419.2 g/t silver, and 13.54 % lead.

Adjacent to and extending away from the porphyry into the sedimentary rocks, is a system of subparallel arsenopyrite -pyrite -pyrrhotite veins with minor quartz, galena, sphalerite, and stibnite. One zone within the

area had four closely spaced veins which gave the following values: Vein 1 assayed at 35.9 g/t gold, 22.2 g/t silver. Vein 2 assayed at 21.1 g/t gold, 102.2 g/t silver, 11.24 % lead and 4.17 % zinc. Veins 3 and 4 had 5.1 g/t and 3.1 g/t gold.

A number of veins sampled throughout the property gave values between 8.5 g/t and 2.1 g/t gold. Our analyses were done by Bondar-Clegg Ltd. Gold was assayed by fire assay, the other elements were by ICP.

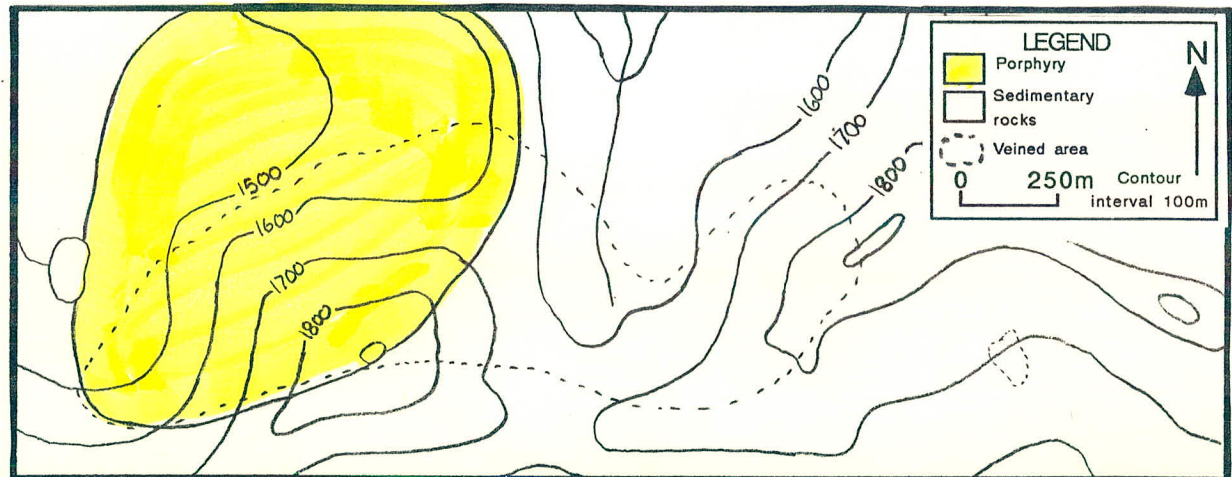
Potential

It is our opinion that the abundance of gold bearing veins throughout the area make the Scronk Claims an excellent exploration target.

For more information please contact:

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or Grant Couture
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The Christina Claims (A potential porphyry/skarn gold deposit)

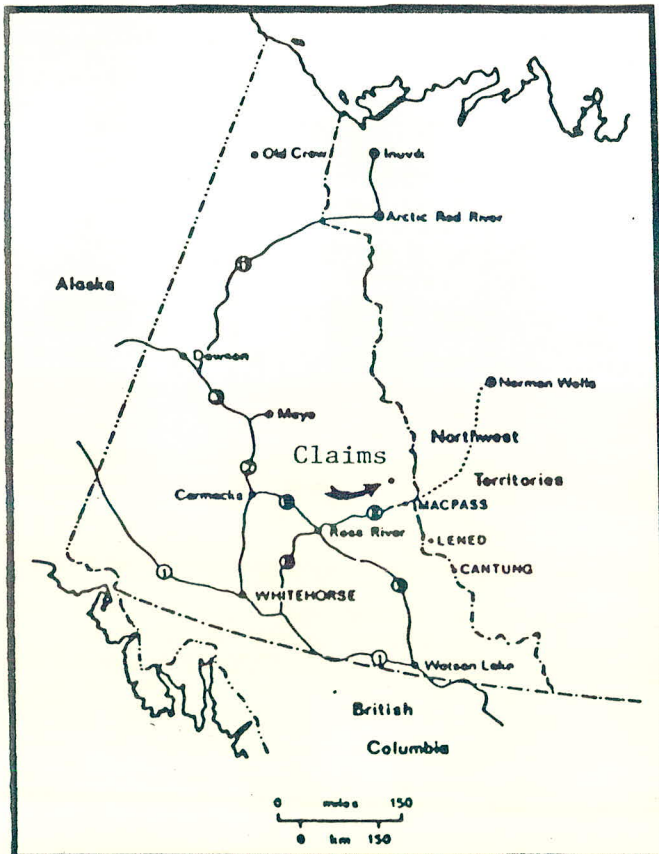
Location

The Christina claims are located in a rugged mountainous area of the Hess mountains Yukon Territory, about 80 km north west of MacMillan Pass.

Geology

A large biotite - hornblende granite intrusion dominates the area. Surrounding the intrusion is a sequence of silicified shales, slates, and sandstones, with intercalated conglomerates and cherts.

Location of claims



Mineralization

Mineralization on the claims occurs in two zones, namely:

(1) An area within the intrusion where arsenopyrite - quartz - tourmaline veins are found along jointing surfaces. Traces of disseminated chalcopyrite and a small zone of malachite bordering veins were found in the granite. A weathered talus boulder collected in this area assayed at 5.31 % copper with 79.5 g/t silver. A few selected high values from veins in outcrop along this zone yielded the following values: 14.3 g/t gold, 6 g/t gold, 3.8 g/t gold and 1.55 % copper.

(2) A brecciated veined sector occurs within the sedimentary sequence. Pyrite, arsenopyrite and pyrrhotite mineralization occur in the veins and breccia. The zone was traced horizontally for over 200 m and appeared to vary in width from 10 m to possibly 50 m or more (the topography is very steep and the outcrop is friable, thus access is difficult).

A breccia sample from this zone assayed at 3.8 g/t gold, 30.8 g/t silver and 1.02 % copper. Another breccia sample about 20 meters away from the previous one gave 1.57 g/t gold, 30.7 g/t silver, and 0.53 % copper. Our analyses were done by Bondar-Clegg Ltd. Gold was assayed by fire assay; copper and silver were by ICP.

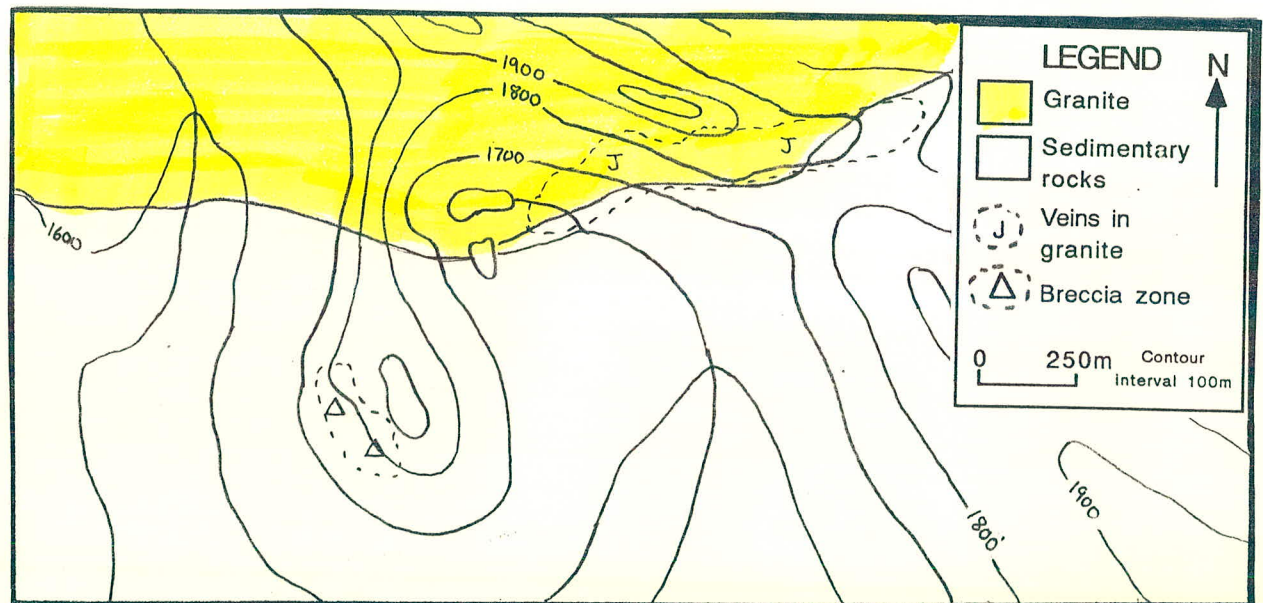
Potentials

It is our opinion that the Christina mineral occurrences suggest a porphyry / skarn gold association possibly of the Mount Milligan type. This region seems to have great potential for new exploration horizons.

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8-31
1-15
17-26

Field Notes

Shane Ebert

Friday July 6 - drove Edm. to Pawson C.

Saturday July 7 - drove D.C. to Past Watson L.

Sunday July 8 -

arrived at MacMillan Pass

John flew us in (Trans North Helicopt) ^{mar}
set up camp, we then climbed the
ridge to the west of camp

- Granitic batholith surrounded
by fine grained pelitic rocks
most of the pelitic rocks have
a trace to 1% pyrite some have
2 to 3% pyrite

Monday July 9 - rain & overcast

- we have prepared & set out
on a 3 day traverse with
our farthest target being a
mag anomaly on a mountain
North East of camp.

Trans N Helicopt

Monday July 9

Traverse A Day 1

- East side of mountain just North of Camp. Abundant black fibrous to columnar mineral, relatively dense & in veins. hornblende?

Sample SEA2

- Talus very weathered gossanous

- ~5% sulfides (pyrite)

Matrix - plagioclase

- two main rock types along the entire traverse:

1) Granitic intrusion

2) fine pelitic sedimentary - meta rocks

almost all shows a trace of pyrite

- we covered all the outcrops along the sides of the mountains indicated along the path "traverse A" on the map

Traverse A Day 2 July 10

overcast & rainy - the talus slope

the distance across to the shale

Sample SEA3 - 1" thick vein in talus

mainly gtz with pyrite, chalcopyrite

(and arsenic) the host rock is very siliceous (probably arsenorite)

Samples

SEAH & SEAS

Taken from A vein in place
1/2" to 1" almost pure arsenopyrite
"high graded samples"

- we scouted around the area
and have found more veins above
and below.

There are massive sulfides in veins
and partly in the host rock in the
general area. (pyrite & chalcopyrite & pyrrhotite)

It's getting late & starting to
rain heavily we will come back
and investigate this area in
detail.

- this mountain is 8 to 10 km down our base
camp, we will wait until we have more camp ^{than spend} _{2 weeks here}

Traverse A day 3. July 11
cloudy but no rain yet.

Sample SEAC

- a breccia from the talus slopes
the clasts appear to be radiolaria -
pelitic material - very rusted
with minerals visible between clasts
(in pore spaces)

Sample SEA7 - same Loc. as SEAG

- talus, possible a gtz vein
- mainly gtz with bio. & feld.
- abundant sulfides.

- arrived back in camp at approx. 3:30, we set up our HF radio then went along the talus slopes on the main ridge south of camp (see map)
- mainly pelitic sediments showing bedding & rusty weathering.

Traverse B July 12

- partly cloudy
- we are going to observe outcrop & talus along the range that runs east & south of camp, up to a maximum of 35 feet down.

Sample SEB8

- talus with abundant veins in mudstone
- trace of sulfides + a fibrous radiating soft light colored mineral filling the veins.

... is in the creek ...

Sample SEB9
- a very silicic sed with
weathered qtz veins (1 to 2 mm) through
it. The outcrop is approx 10m diam
an outcrop of volcanics (sample SEB10)

Sample SEB10
- outcrop of volcanic rock
- greyish green with feldspar laths
trace of sulfides

Sample SEB11
The same silicic sed with qtz
veins as SEB9, (but on the other
side of the mountain) Abundant veins
& pyrite.

Sample SEB12
- same volcanic as SEB10 but
other side of mtn. trace of pyrite
- calc & cleat

I found a zone about 15m across
in silicic sediments with up to ~7%
pyrite. It is in the creek gorge approx.

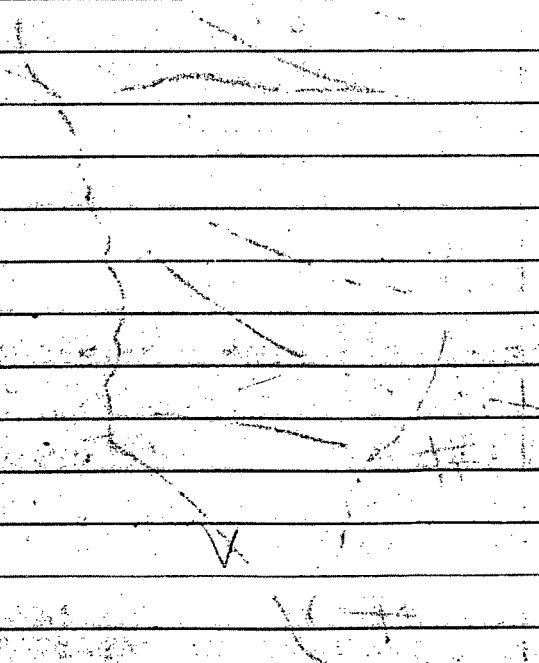
300m downstream from camp.

Tomorrow we will take samples across the zone.

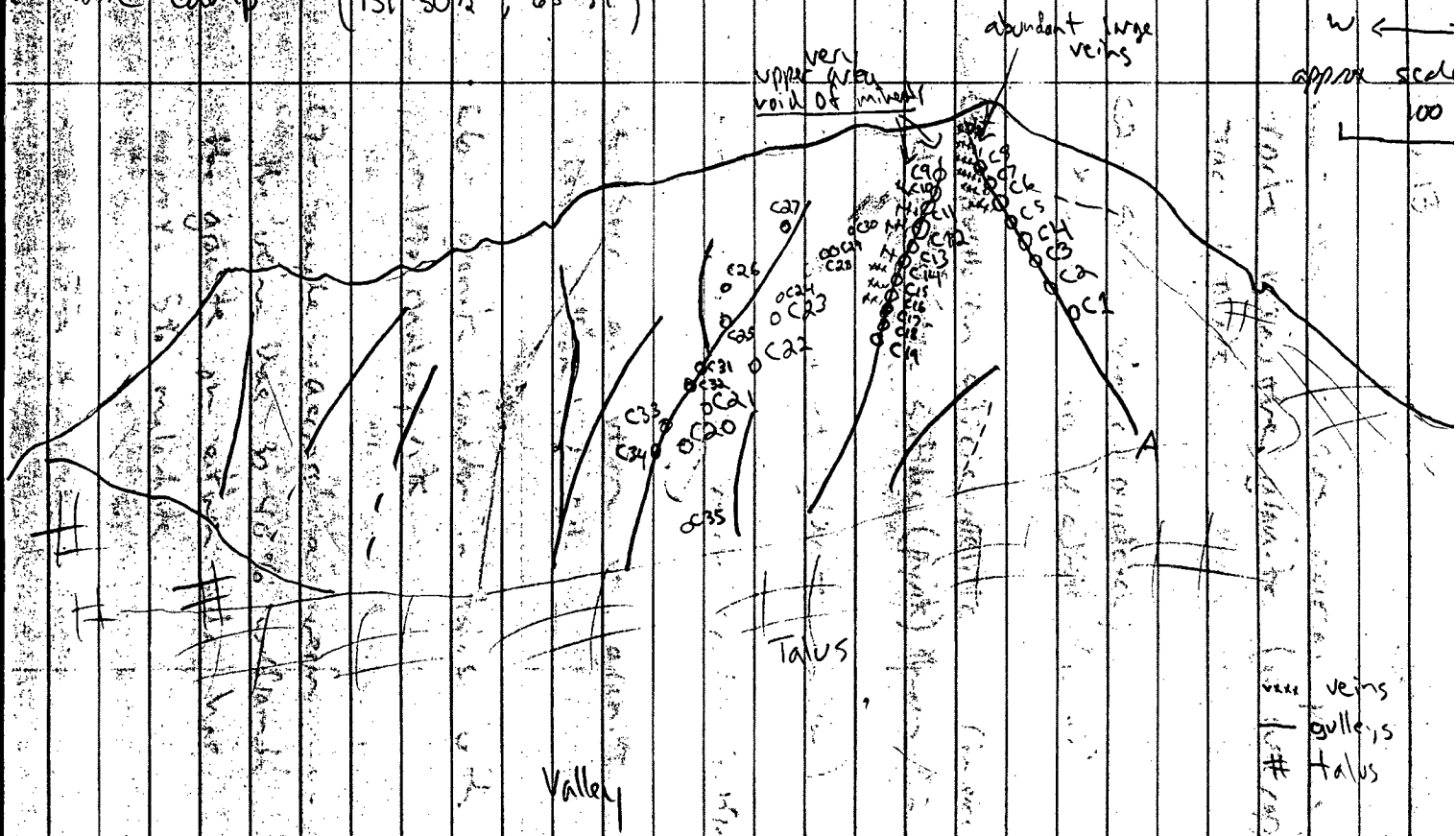
Grant has found veins of arsenopyrite on the mountain north of camp (while on an evening hike)

I think the black mineral we have been seeing may be in the wolframite series but we are not positive.

Tomorrow we will investigate the arseno. veins, and determine the extent of the black mineral.



6.
View of the south facing side of the mountain just north of
base camp (131° 30' 1/2, 68° 34')



July 13

C1 - Sample of the normal pelitic rocks below the granite (in outcrop)
trace of pyrite

C2 - silicic pelitic (purple-ish)
nothing exciting, trace of sulfides. (in o/c)

C3 - purple-ish silicic pelitic (in o/c)
slightly more sulfides (pyrite) than C2

C4 - small sill of granite (20cm)
in silicic seds. up to 1% sulfides
and some large black crystals (wolfram?)

C5 - small gtz vein in granite
with wolframite? 5%

C6 - granite boulder in talus with
C2 ~ 1% chalc. pyrite

C7 - sample of a coarse-grained vein
the vein has 30-40% wolframite
the granite on either side has
approx. 5% malachite.

C8 - very altered & irregular
mineral masses + to other veins.

There are abundant veins throughout the top of the gully (gully, A). Chunks of wolframite 1 foot in length and about 6 inches wide have been found in the talus. Malachite & chalcocite become more abundant as we move up.

C8 large qtz vein in place approx 15 inches across. Visible arsenopyrite, wolframite & malachite

C9 vein ~ 3" very altered & weathered: nothing much visible in it.

C10 - small vein 1" with wolframite & qtz.

C11 - vein sample (b.c.)

C12 - chip sample across 2" vein mainly qtz with wolf & trace arsenic. (~ 1/2 inch chip sample) vein + granite

C13 - G.C.

C14 - very altered & irregular veins running approx \perp to other veins

C15 - GC

C16 - large veins with pods
up to 5" across abundant wulf.

& arseno vein sample

(a massive chunk of pure arseno
approx 4" was taken from here (but not sampled))

C17 - high grade vein sample
vein is \approx 2" wide & mainly
arsenopyrite

arsenopyrite veins are numerous
as are large veins with wulf.

C18 - high grade vein sample
of wolframite vein gets up to
4" of solid wolframite thick to 1"
almost pure wolframite

C19 - high graded vein of arseno
many small-arseno veins in the
area down 1" to a few mm.

C20 - Qtz vein 2" thick with
arsenopyrite - sampled across the
vein + a 3 inches of granite on
either side

C21 - G.C.

C22 - G.C.

C23 - Qtz + Wulf vein sampled
across vein + 3" of wall rock
on either side. No arsenic visible

C24 - GC

C25 - small vein of mostly
wulf. (~ 5mm wide) most the
material is from the vein

C26 - vein ~ 1/2" width 50% Qtz
50% wulf. mostly vein material

C27 - sample from the granite

- not many veins this high up, a few
small black veins - trace of sulfides

C28 } G.C. vein system.
C29 }
C30 }

C31 - vein sample of
gtz + wolf vein

C32 - sample across a very small
vein + gtz vein (3mm) sample
is mainly granite

C33 - sample across vein ~ 3 inches of
granite from either side vein is
1 inch wide & has wolf ~ 40%.

C34 - 1" vein of mainly gtz
traces of wolf & pyrite

C35 3" dot in a vein of gtz
The th^o a mineral vein though
the gtz (a greenish mix)
show no visible wolf or arsenic
of the mountain with the rest

The granite intrusion's boundary
shifts across the valley and up
a ridge to the west, so the zone
of mineralization will probably also

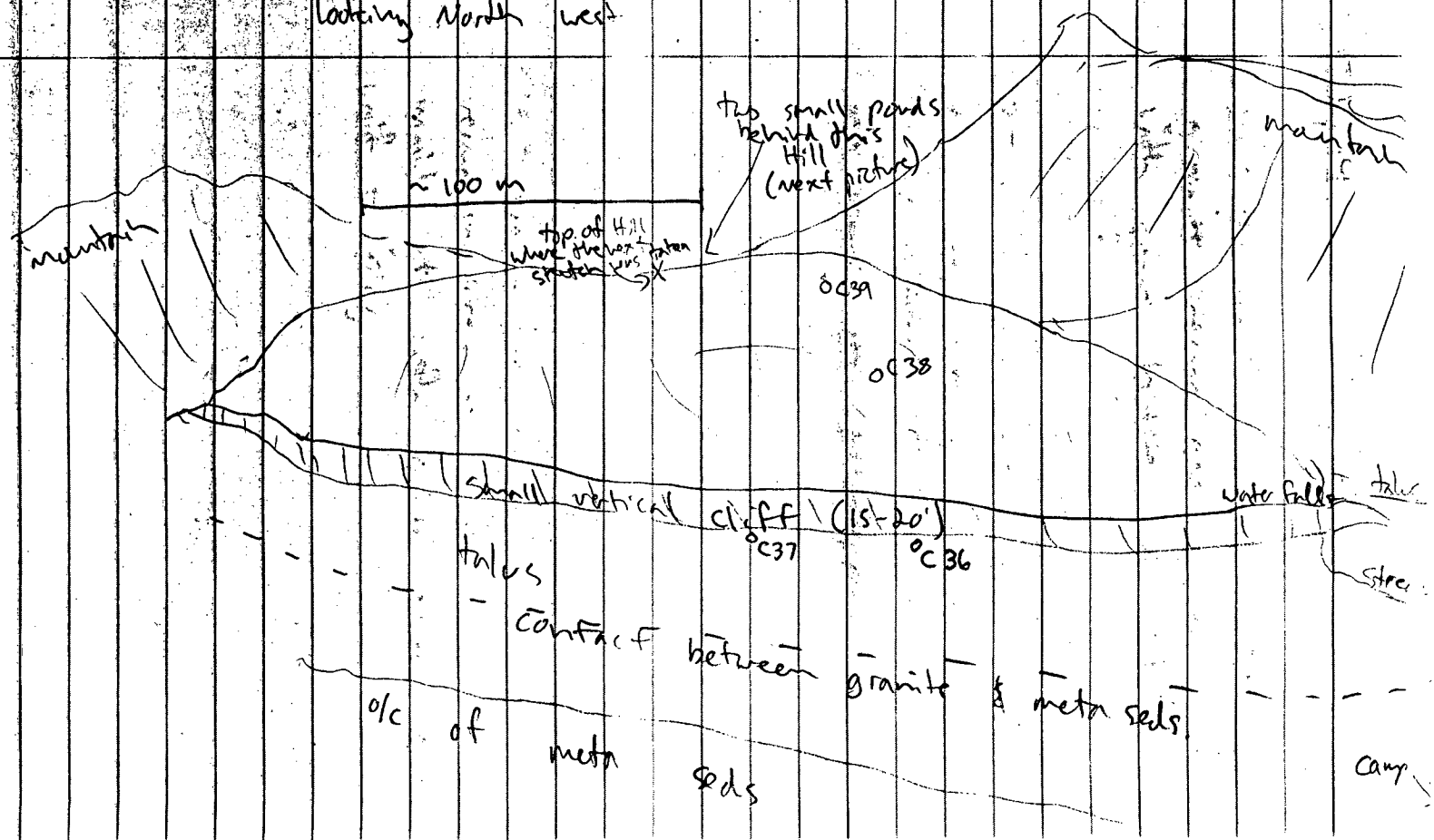
shift. The mineralization is generally occurring in veins between 2m and about 2 ft average about 1 1/2". They appear to be related to jointing in the granite and roughly follow the edge of the granite - metasand contact and extend into the granite about 150m.

The black mineral fits very well with the mineral ferberite or Wolframite end member (iron rich) - the form, habit, streak, occurrence, s.g. and slight magnetism, as well as the hardness & color coincide very well but we are still not 100% convinced, for now we will treat it as if it were wolframite.

The 1:50,000 scale topo maps are too large a scale for us to show our traverses & sample locations of the mountain with the veins in any detail. So we will use a series of sketches, and latter plot the sample locations on an enlarged map.

#2

A granite hill above a small vertical cliff
near the contact zone
looking North West



July 14

C36 - abundant veins in the granite, veins are mainly gte with some biotite no sulfides or wolf visible.

C37 - 1/2" vein in the granite disseminated specs of wolframite? trace of sulfides 1% biotite ~~and~~ mainly gte (possibly plag.)

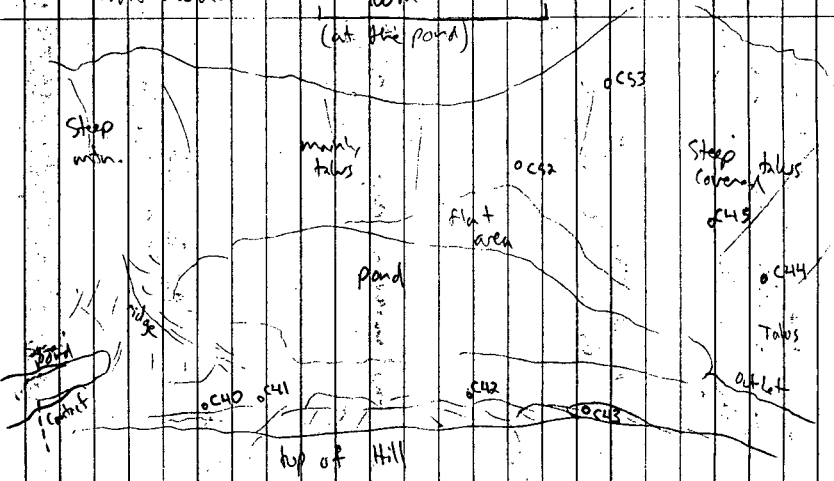
C38 - small vein 1/2" with abundant wolf 30% & arseno 5-7% the sample is approx 40% vein material & 60% wall rock.

C39 - one of the many medium sized veins in the area ~ 2 1/2" mainly gte with biotite traces of wolf + plag.

#3

Stretch from the top of the Hill (see preceding stretch) looking North West

100m
(at the pond)



steep moun.

steep talus

flat area

pond

steep talus covered
OC49

OC44

talus

outlet

OC40

OC41

OC42

OC43

OC53

top of Hill

pond
cave

-starting to rain

C40 - 1" qtz vein with visible wolf
no visible sulfides

C41 - a 3" chunk of solid granite
with 3 qtz veins running through it
the veins are approx 1/4" wide
no visible sulfides or wolf.

C42 a vein 1" with a 1/4" wide strip
of wolf. no sulfides visible

C43 large vein 2 1/2", abundant wolf.
& visible arseno - vein sample

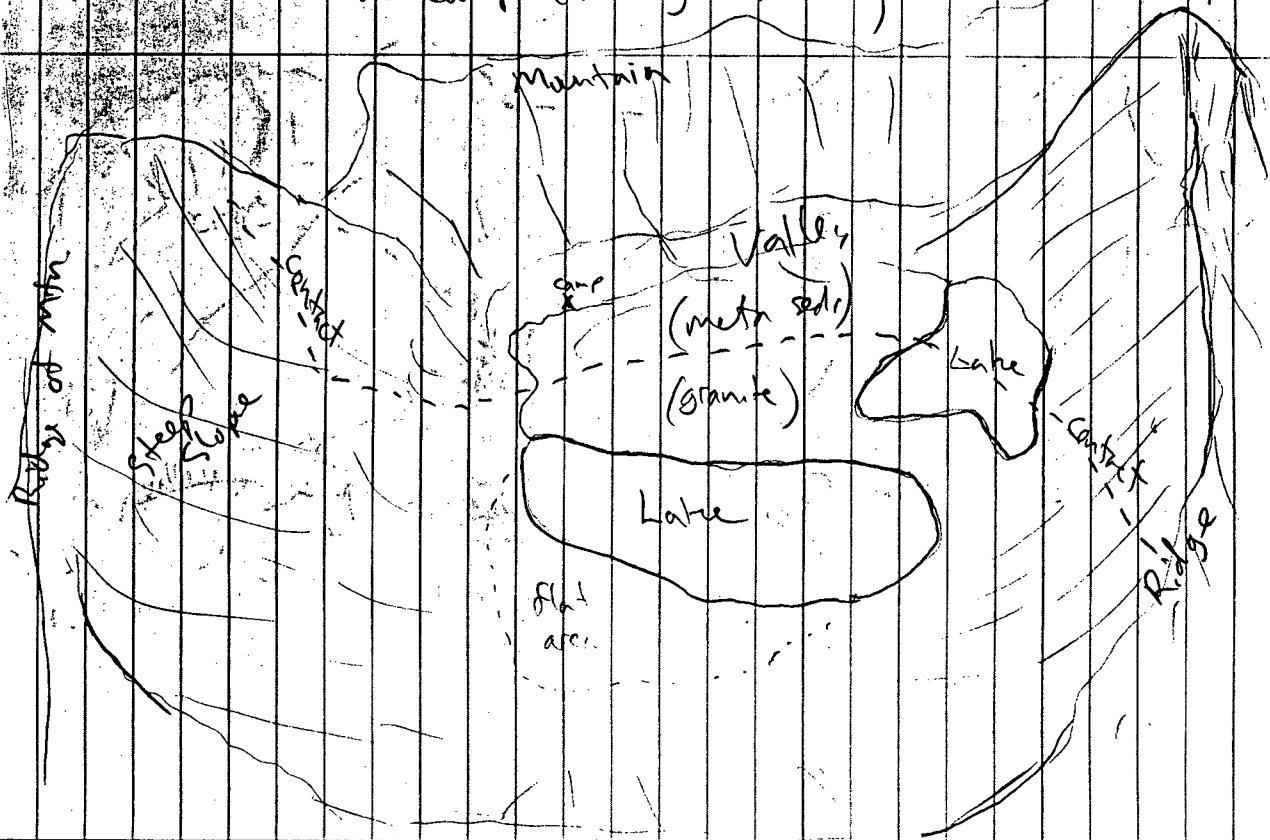
C44 small veins in % black mineral
(five crystals) in veins, wolf? no
sulfides visible. sample approx 10%
veins

C45 numerous small veins in the
are all brown wolf. This vein is
1" wide - some wolf some qtz trace of
sulfides (in %)

H4

stretch from on the ridge looking down at the
lakes toward camp (facing ~ 20° E)

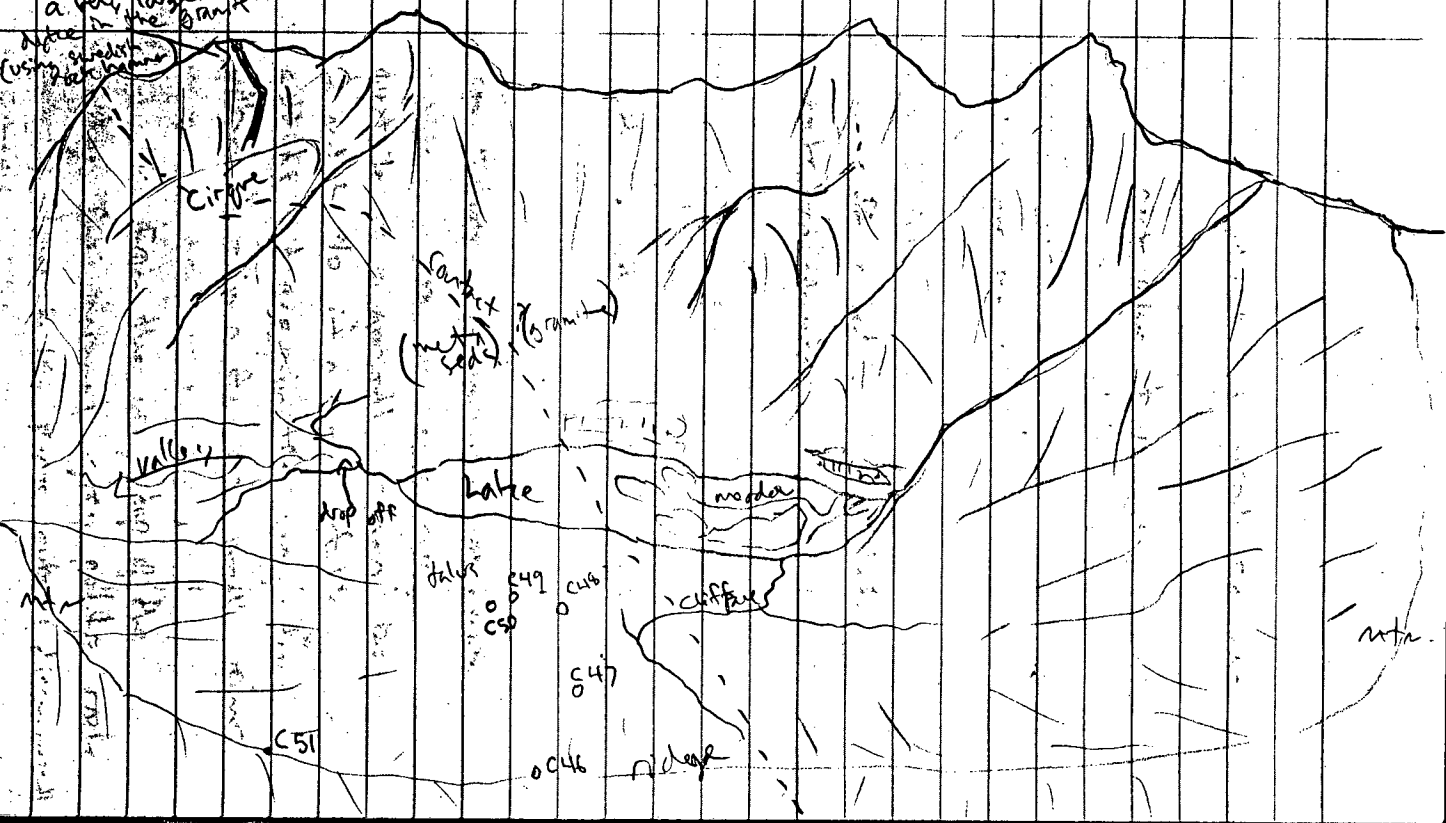
mt. peak



046519

* S Sketch from ridge looking away from camp toward the other valley (facing ~ 250° w)

a very large
face in the
crack
(using Swedish
rock hammer)



C-46 - a large vein of
mainly wld. High grade sample

C-47 rock from talus (very abundant)
- appears very metallic, gte and
pelitic looks silver-grey & very fine
grained, possibly stained

C-48 a bed ~ 1m wide of
a soft rock = cream colored
rock - micaceous

C-49 talus sample a light
colored rock (chert - gte vein?)
with abundant sulfides - 3 to 4%
py + arseno + calco.

C-50 talus a boulder of what
appears to be a light grey
quartzite (fine grained), it has been
2 and 4% of a silver metallic (pyrite)
sulfide? disseminated everywhere
within it in a few very small veins.
(gray pelitic)

C-51 1% from the very top of the
ridge. The normal grey pelitic rock
showing trace to 1% pyrite cubes (disseminated)

Tomorrow we will walk out the granite-metased contact to the west to determine how far the mineralized zone extends. The wolframite (the black mineral that may be wolframite) is starting to appear more in the metaseds & more pyrite mineralization exists in the metaseds also. We will especially try to locate more of the arsenopyrite-wolframite veins. A large dyke which is visible across the valley will also be investigated & sampled.

July 15.

light clouds & sunny, 15 caribou walked through camp about 7:00 am.

(Samples & Traverse plotted on 1:50 topo)

Traverse D

Sample D1: a pad of sulfides approx 3/4" by 2 to 3" in the siliceous metaseds (gray matrix).

These pads (or veins) are scattered throughout these rocks (relatively abundant)

Sample D2 - G.C. (Same as above)

D3 - typical siliceous meta-sed
near the top of the mtn.
pyrite disseminated all through
~ 1 to 2% & veins (1mm or less)
all through the rock.

D4 - blocks relatively heavy pelitic rock
with 1-2% very fine dissemin. pyrite
fine mica on some surfaces. Abundant.

D5 - G.C.

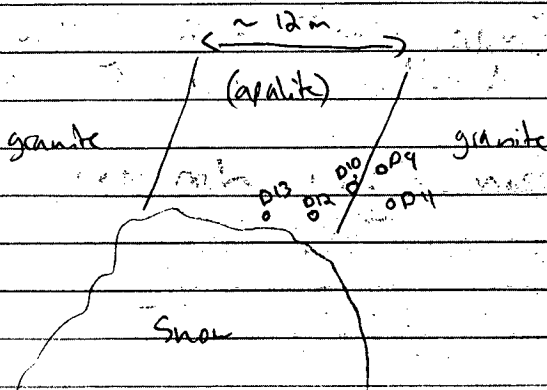
We have found a mineralized
zone (a fault zone it appears) the
area has been flagged & we will
cover it and sample across it tomorrow
- pyrite & arseno are very abundant &
possibly some galena & Barite?

D6 - veins of massive sulfides &
walk in the stream cut cliffs
along the valley.

D7 - 3m from D6 across the
stream. Weathered vein matrix
Gibberly crumbly stuff arseno weathered?

D8 highly altered & weathered zone
~ 1.5m in width, abundant pyrite
w/lt?

Large Dyke seen on sketch # 5.



The dyke has abundant pyrite
mineralization

D9 sample of granite near but
away from contact. (10-20 cm) mineralized

D-10 contact sample abundant
pyrite with 15% pyrite locally
from camp. There are

D-11 Granite away from contact

D-12 dyke sample has 2-3% pyrite

D 13 Dyke sample from near the middle 1-2% pyrite in cubes up to 4mm.

D-14 (on top) south of Anorthite dyke
In the dark f.g. meta sed
within 2 to 3 m of granite
contact. A very weathered vein
in the sed + a large chunk of
the sed rock which has
small veins throughout.

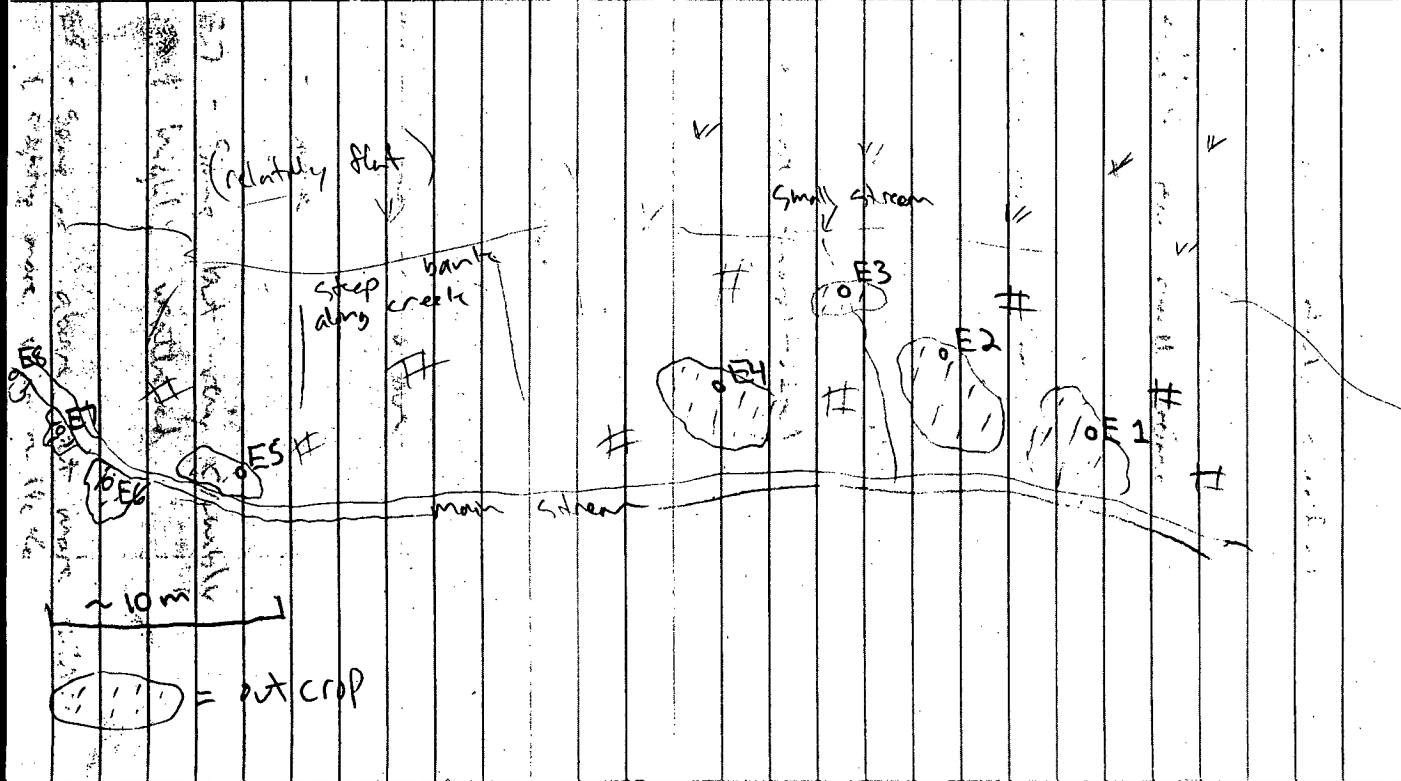
D 15 Talus pelitic rocks
with 5-6% sulfides, weathered

D 16 light colored siliceous-pelitic
from talus small veinlets throughout

July 16
-light clouds

Have taken samples across the
mineralized zone just down stream
from camp. There is too much
talus & covered rock to determine
the extent of the mineralized. black
to grey, meta sed (pyrite mineralization)

#6 - Pyrite mineralized zone approx 300 paces (300m) downstream from our base camp. sketch shows the ore on the North side of the creek gully



E1 Grey to black silicified
metre rocks. A trace to 1%
pyrite mineralization, some dissem.
Some in very small veins

E2 - Same as E1 possibly
slightly more pyrite

E3 - appears to be the max. extent
of mineralization in this outcrop
(a boulder in the talus had a
lot more mineralization)
3 to 4% pyrite disseminated in
small veins

E4 - Same metabased with
a few small veins of pyrite
~ 1%

E5 - same as above

E6 - same

E7 - Same but very crumbly
& highly weathered

E8 - Same as above but more siliceous
& slightly more veins ~ 1% to 2%

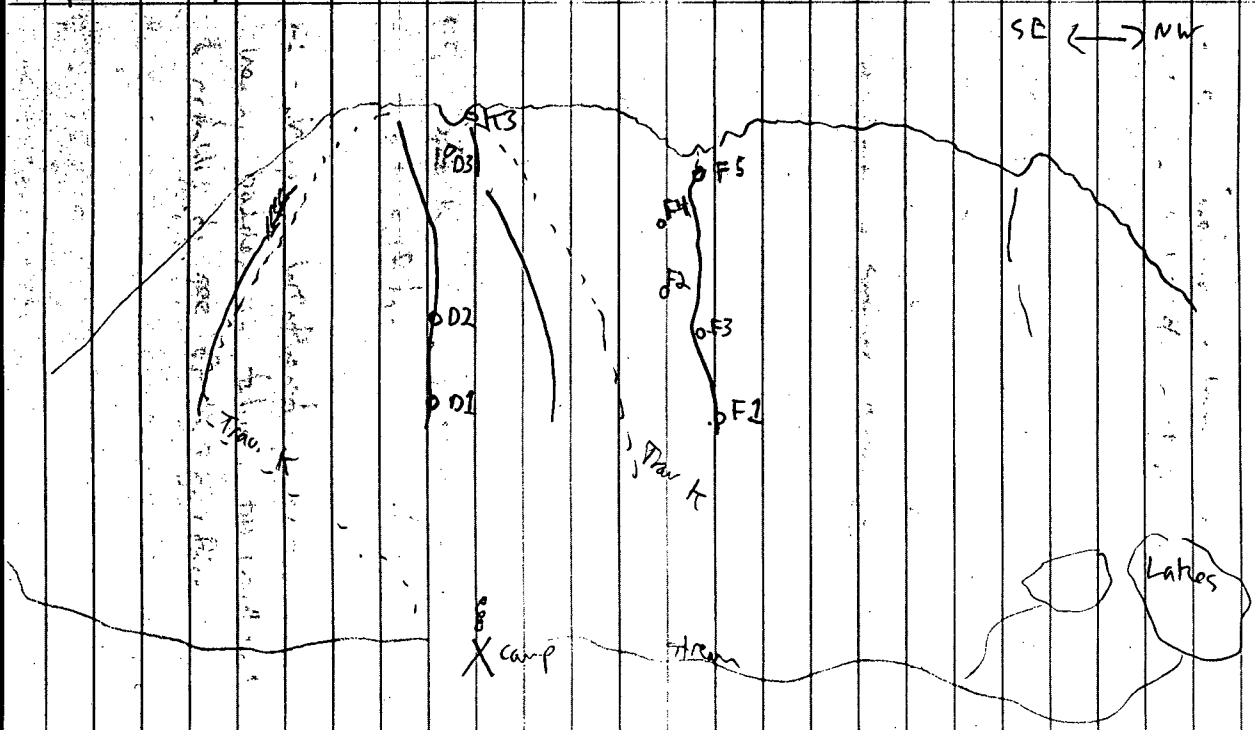
#7 Steady Mountain S.W. of Camp

Looking south west from Camp

~100m

SE ← → NW

July 17 clear & sunny



F1 - very siliceous pelite very hard
a large vein of pyrite $\frac{1}{2}$ " wide
+ small veins $< 1\text{mm}$ throughout the
rock ~ 2 to 3% sulfides grey to black

F2 - G.C.

F3 - very siliceous, light colored meta
sand (interbedded with dark pelite)
2-3mm & smaller veins of sulfides
~ 2%

F4 - G.C.

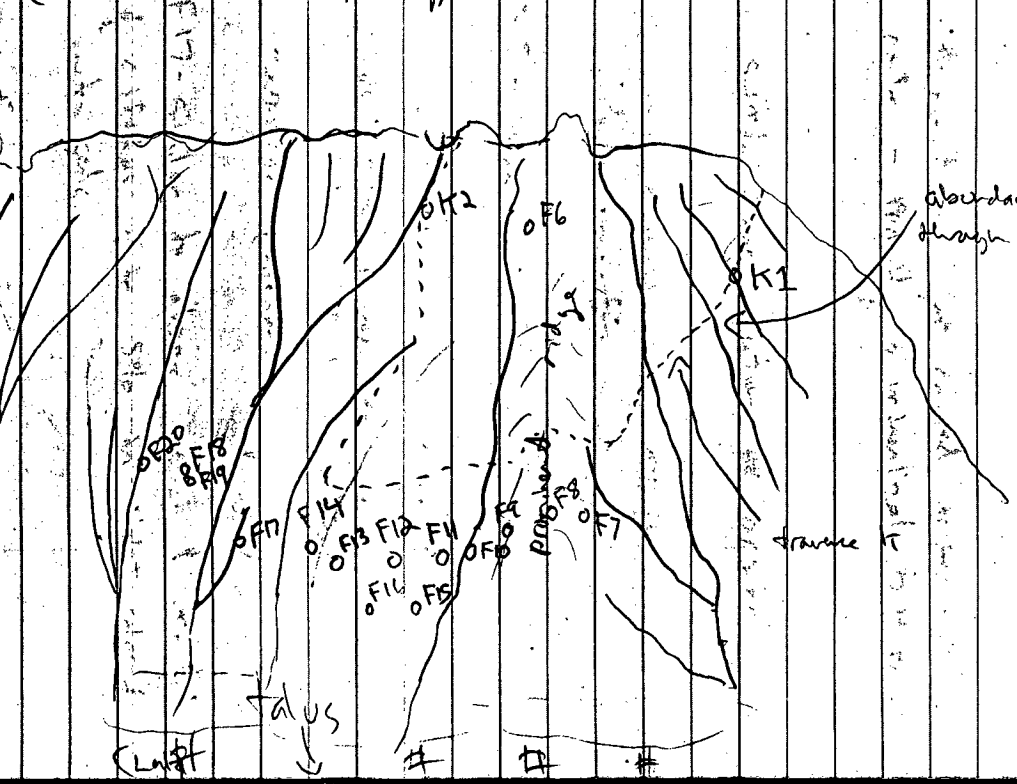
The rocks all the way are
similar - some have more veins
& mineralization than others locally.

F5 - 0% heavily veined light siliceous sand
3% + sulfides

F6 - highly weathered, porous &
heavy boulder in talus, too weathered
& crumbly to see fresh surface
2

H8/ Sketch of Mountain S.W. of camp (other side of mountain)
 Looking N.E. at South facing slope
 (area outlined on topo map)

A large wild stream
 in camp flowing camp foot hill side
 25' lake
 10' gk
 10' gk
 10' gk



abundant veins
 through the area

S.

F7 Abundant veins (pink & fine black)
throughout in light colored pelitic - psammite
matrix - probably a mineralized fault breccia.

F8 - Same as above but more
sulfide mineralization for arsenic

F9 Similar to above but 20%
sulfide mineralization.

F10 - same

F11 to F16 are samples
across the mineralized zone
same, pink, wulf & pos. arsenic
throughout (wulfenite is patchy)

F17 similar to above veins & veinlets
of sulfides up to 5% in light-colored
matrix.

F18 & F19
A large wulfenite + arsenic vein
initiate up. Following large football size
chunks of black wulf lead to a large
vein - 25" wide, approx 85% wulf, 10% gbk
and 5% arsenic. Most of the area it covered in color
+ very steep

F20 light colored silicic sed rock
in talus has ~ 2 or 3% pyrite
disseminated & in veins + possibly
trace of arsenic

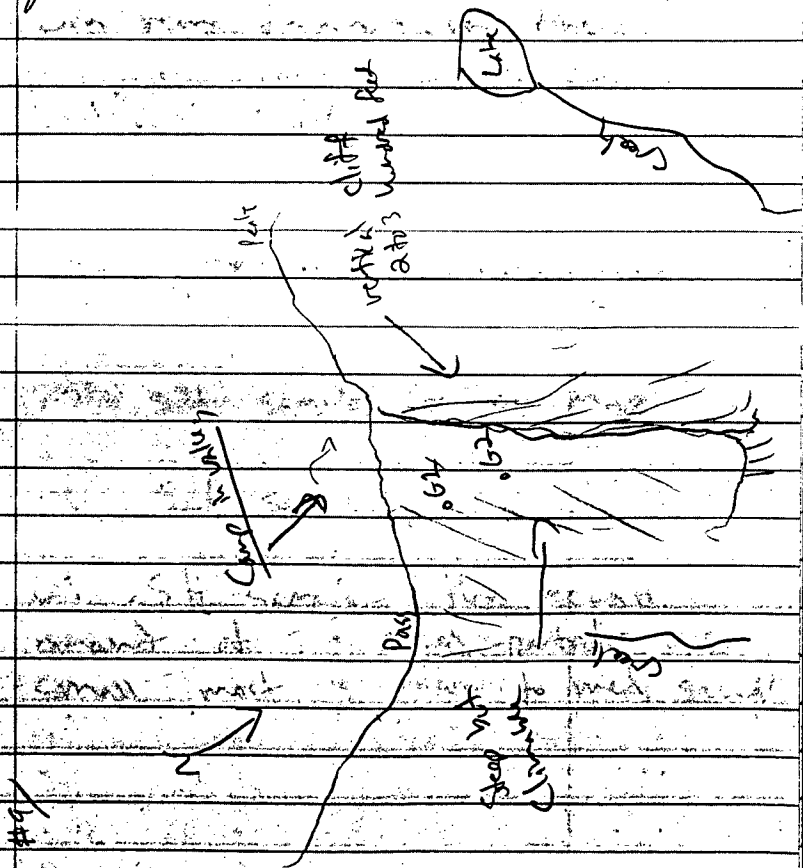
- most of the meta-sed rocks
in the area have disseminated
pyrite & small veinlets of pyrite
(the as those previously sampled)
most of this side of the
mountain is very steep with
lots of loose talus and crumbly
outcrop so travel is difficult.

July 18

Examining the granite-sed contact
North East of camp

G1 - In the granite above the pass
east of camp. There will be arsenic veins
are abundant here & are the same
as those on the south side of this
mountain. This particular vein had
some white siliceous arsenic 2-3%
pyrite + etc

G2 approx 40m North of G1
 Large Pools of very mafic banded
 gneiss (qtz deficient) they are 50 to 60%
 biotite with ~ 3-4% pyrite. They are
 different than the finer grained
 xenoliths seen in the granite &
 don't appear to be related to the
 qtz veins.



63 - abundant small veins in the area. The veins a resistant compared to the granite (stick out). Mainly, get into wall in the center & dikes of arsenic & pitch; sparse malachite.

64 - a zone that looks very similar to the mineralized breccia zone found earlier. A light colored pelitic rock with veins throughout. very fine grey-black stuff in veins no identifiable sulfides.

65 - same as 64

66 - a more friable, loose rock weathered and very altered.

67 Silt sample loc. on map

68 Silt sample

69 Silt sample (the actual amount of silt-sized particles was small - most is fine to med sand)

the silt is abundant in the breccia zone & is a mixture of siltstone & sandstone. The silt is brown.

July 19

- examining the granite road
contact North to North West of Camp.

Sample H1 - Granite

H2 - sparse polymetallic mineralization
in qtz veins & dissemination through
heavy wall rocks. ~ 2-3%
arsenopyrite, pyrite & calcopyrite with minor
malachite

H10 silt

H3 Silt from stream above small
pond

H4 Qtz vein with approx 5-7%
pyrrhotite. Veins are abundant
in the area, most appear barren.
Some show traces of sulfides.

H5 Qtz veins with talc ~ 2%
sulfides, arsenopyrite & pyrite with green
fibrous radiating mineral (possibly serpentine?)

The silt is abundant in the
siltstone area abundant veins in
the hillsides above lots of malachite
in the veins mainly qtz (multidirectional)
size 1cm to 50cm.

H6 - G.C.

H7. Microfossils very abundant

pos. dyke material cream to white
with ~ 2% sulfides - pyrite &
pos. arsenopyrite.

H8 - silt sample (fine sand)

H9 silt sample

H10 silt sample

July 20 "Traverse I"

We have walked down the valley and around the far side of the mountain which contains the large dyke we sampled earlier. The geology map shows a thrust fault in this area, but there is too much talus and very little rock exposure, so we can't locate the fault materials. All the outcrop on the south side is what we call a silicified sediment, nothing worth sampling. At the top of the mountain we see the dyke & sediments

nearly are the same as those already sampled (dyke has up to 3-4% pyrite cubes, the sed. have \sim 2% pyrite).

- a smoky haze started yesterday, today you can't see clearly across the valley, must be a megar fire to the west.

July 27

- Staked 3 claims, Christina 1, Christina 2 & Christina 3 which cover the area with the wildcat - arsenic veins.

We had to travel about 2 km down the valley to get posts.

- we spent the afternoon trying to trace the veins across the talus & on the other side of a cliff to the north, we found no evidence that they extend beyond the area staked (except for a few sparse veins with traces of WLF: approx 2 km north. No new rocks encountered).

July 22

Spent the morning staking 4 more claims, Christmas 4 to 7. A total of 7 claims in this area have been staked to cover the well-known veins and the anomalous mineralization in the brecciated material south-west of camp.

After staking we traversed across some of the talus slopes to the north & east in the valley in which our camp is in. Nothing new was seen - we have covered or at least looked at parts of all the mountains within about 5 km of camp. We have 2 days left before we are moved to a new location (the area with the 1" thick pure arsenic veins ~ 7 km N.E.). Tomorrow we will probably cover a few more of the gullies in the mountain west of camp, but these gullies are very steep we may need ropes & climbing gear (which we have). We will probably spend the last day in this area traversing the mountain which is approx 6 km south of us. We have found an arsenic vein which is 6" thick, which is pure calcite in the

today around camp. One sample
was taken from the talus
just west of the large pond (Lake)

Sample J1
Vein material ~ 60% quartz
The rest is mostly feldspar,
10-15% feldspar, 10% light brown
fibrous altered mica ~ 15% host &
arseno.

July 23

Traverse K on mountain
S W of camp. Route up is
shown on sketch #7.

Sample K1 - a vein 6" to 1 foot
wide with structures of smaller
veins with quartz veins of almost
pure arseno. Both the veins are
abundant; pyrite & chalcocite
occur in small quantities in the
host arseno. There is also
some iron sulfide in the host
arseno. A small amount of
arseno. is also present in the
host arseno.

K2: A vein ~ 6-10" very similar
to K1 vein. Location up on
slope highest up. Further North
than K1 vein.

K3: a vein with uncertain
lots of talus & loose debris
on top of mountain above K2
- abundant quartz, faces of arseno
& black vein filling mica.

It appears the area with
mineralized veins on the south
east side of the mountain is
larger than previously thought. The
area is very steep & the outcrop is
very crumbly so getting around
is slow and difficult. The area
where K1 was sampled has abundant
veins. That's (more) extends to the
area directly down slope approx 200m E.
Another large vein was found earlier
about 200 to 250m E of that. Today
I found another vein at the
top of the mountain (250m straight up
from the original discovery). There is
lots of talus cover.

July 24

Travel L

We are going to look at a mountain & ridge east of camp.

- on the way up mainly light siliceous sed. & dark pelitic sed. with ~ 1% pyrite nodules here.

Sample 11 from the top of the mountain - light colored pelitic-siliceous rock with small veins thin as a leaf through it.

We have continued across to a ridge which runs ~ East. We get the same black pelitic sed. and lighter cherty sed. Locally there is 1-2% pyrite in veins (very small veins) and disseminated (similar to Sample 17).

Sample 12 from stream by camp.

Location of Sample 12

July 25

Took down camp.

A large Grizzly Bear walked past us, within 150m of our gear, he wasn't concerned or bothered by our presence.

About 3:30 the helicopter came and moved us to our new location designated camp 2 on our maps (the area we discovered arsenic veins in while on the 3 day drive).

We spent a few hours looking around the talus & a few outcrops. There are abundant gtz veins mainly have 2 to 3% arsenopyrite. We have also found another vein ~ 1" thick with pure arsenic. Tomorrow we start to systematically cover the area to try and outline the density and extent of the veins.

July 26 Rainy

Sample M2 from talus at bottom of small cliff. A weathered volcanic (abundant) with large zoned plagioclase up to 1cm. Approx 1 to 2% sulfides disseminated throughout the rock.

M4 - abundant - silicic soil with about 2-3% pyrite in veins. A zone of this type of rock was found ~50m.

M5 - silt sample

M7 - Chert rocks in stream talus ~5% pyrite disseminated throughout.

In the area of M5 there is a diorite intrusion which outcrops along the stream.

M9 - o/c. - medium grey silicic host with ~10-15% pyrrhotite and pyrite disseminated & in small veins. This arsenic mineralization is shown on and off though this o/c for approx 15 to 16 m. (then there's talus) (there is significant mineralization further than that as you go upstream up to ~30m)

M10 - Arsenic vein up to 1" thick in o/c high grade vein sample

*note no samples 3 & 8

throughout the area there is interbedded sedimentary rocks consisting of shale, chert, siltstone to fine sandstone (meta to quartzite) and thin pebble conglomerate units. There are volcanics with large feldspar laths (+ some pyroxene crystals) and an intrusion, the diorite. There is abundant gte. veining in the talus along the mtn. west of camp arsenic, pyrite, pyrrhotite & traces of moly are present in the gte. vein.

July 27 Traverse N
cloudy & rainy.

- we will look at parts of the mountain west of camp. The mtn. is steep, wet & slippery so we will probably be limited to gentler slopes.

- there are abundant gtz veins in the cliff face west of camp. Most are barren, some show traces of moly, pyrophyllite, arsenic & pyrite.

Sample N1 volcanic at contact with siliceous seds in % Same volcanic as seen previously.

- we have found a few veins of pure arsenic on top of ridge.

N6 - a gtz vein ~ 2" wide with white pyrite, pyrophyllite and moly disseminated. plus a 1" thick, sulfide rich vein directly above.

there is approx 70m of the volcanic in a scarp along the ridge. as we approach the peak of the hill the volcanic ends & siliceous seds with ~ 2-3% pyrophyllite starts. Some of the gtz veins have traces of moly.

N8 - A light siliceous host rock with small veins of sulfides ~ 2-3%. Talus - abundant

N9 - Black to green columnar to acicular to fibrous mineral in gtz vein (unit?) talus - abundant.

I spent 2 1/2 hours tonight looking around the mtn East of Camp. I found one more arsenic vein ~ 1" and 2 to 3, 3/4 to 1" sulfide veins (pyrophyllite & pyrite) I found pods of pure pyrophyllite in a black pelitic sed. It is very steep, tomorrow we try to cover most of the west facing slope of the contact.

July 28

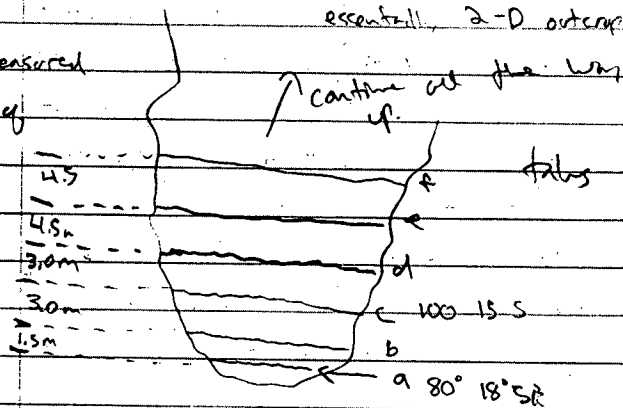
Mtn East of Camp

Sketch of S&A o/c (dip away o/c)

not to scale

* strikes and dips on some of the veins are estimates from essentially 2-D outcrop

distance is measured ~ \perp to plane of veins



talus

a - a gte + arseno vein varies from 1/2 to 1" thick ~ 50% arseno locally

b - 1/2" gte vein with traces of arseno + 5% blank vein w/olt?

c - 1" thick arseno vein (first vein band) the entire vein is arseno no or little gte visible

d - 3/4" gte + arseno vein ~ 30% arseno

e - 1" gte + wolt (60% locally) + ~ 5% to 20% arseno locally

f - 1" gte vein arseno varies locally ~ 10 - 15%

above f a few more pure arseno veins were found steepness of talus ect. make measurement difficult in the few outcrops along strike to the south veins have been found some even as zones ~6" across with 2 or 3 1/2" to 3/4" veins of pure arseno

the veins appear to be continuous and exist from the very bottom of the 1st outcrop all the way to the top of the mtn (there are probably more than have been discovered steepness talus and very resistant silic host rocks hinder progress)

06 - vein a in disc. o/c

07 - vein b in disc. o/c

Sample 02 - a zone
approx 1' thick with approx
30% arseno, 30% gte, 30% green
mineral (fluorite?). - at top of mtn
extends across vertical face with
use maps ect. to outline its
extent. o/c

04 A large vein at the
very top of the mtn westward
- 1/2" thick abundant pyrite &
pyrrhotite & 80-90% green in
vein mineral. o/c

05 A 1" gte vein ~ 50% arseno.
in at camp.

In the talus a vein
of pure arseno ~ 2" thick was
found in the pass south of camp.
it may have come from the
mtn to the west!
It's been an interesting day!

I want for a walk this evening,
I traced the arseno-veins it takes
to a vein on the mountain to
the west of camp the vein is
approx 10" across and varies in
arseno content, the vein has
been folded, structurally complex
area. I found a other separate
gte vein ~ 12" across with
arseno throughout on the mtn also,
plus a 1/2" pure arseno-vein
just above camp to the west. This
area needs to be gone over in
detail.

July 29

I have gone up the mtn directly
East of Camp in about the center of
the main cliff area.
- the first few o/c's have
abundant sulfide & green in
veins west side. That area
was about 5 to 10% pyrite & pyrrhotite.
The zone is about 600' wide
1000' up. In the above that then
I have found an arseno vein
~ 3/4" thick & variable with the

associated green mineral we have been seeing.

Sample P3 - a 1 1/2" thick arseno (90%) pyrite 5% and pyrrhotite 5% veins there are abundant pits of pyrite, pyrrhotite & some arseno in the area.

We have walked at the entire west face of the mtn. along the bottom of the cliff faces.

There are scattered veins and a few zones with ~10-15% arseno + pyrr + py approx 2m wide possibly water in areas.

As we travel North a contact with shale & chert is met, they are continuous to the end of the ridge, only traces of pyrite are visible in these.

Sample P4 - arseno + pyrr + py vein just above camp, arseno up to 3/4" thick.

July 30

heavy rain, & windy, heavy fog, we can only see about 5 feet in front of us. We have decided to remain in camp until the clouds lift.

We have plotted the arseno veins we have found on hand drawn enlargements of the area, and have drawn up a separate sheet with rock descriptions of our assay samples - this should be helpful when we compare our assay results with what we sampled.

July 31 Still raining and cloudy, we had an inch of snow.

We have decided to try going over the pass to the south and down into the valley, below.

Sample Q1 - atrop highly weathered with small veins of pyrite & pyrrhotite ~ 2-3%. A. light colored siliceous host.

Q2 - a 1 1/4" thick arsenic vein in the talus at the bottom of the valley; it came off the mountain to the north (the one east of camp)

- we have found a rock in the talus with ~ 5% disseminated arsenic

- along the main stream we have found boulders with small veinlets and veins of pyrrhotite

- we have gone up the valley to the east. The mountain immediately south is mainly gneiss - diorite there are fragments of an opalite dyke with approx 10% pyrite, in the talus.

Boulders with pods of pyrrhotite along stream which sample Q5 was taken pods up to 2 cm.

Sample Q7 in o/c a 2 inch zone of arsenic & green mica & quartz. up to 1" thick pure arsenic

- there is a small gk - arsenic vein about 1m below it.

- we are finding disseminated pyrrhotite & small veins of arsenic along the gorge on the way up.

- about 3/4 of the way to the top we have found a 4" arsenic vein.

It's too dark to do much more tonight, we will return here tomorrow and trace the vein

Aug 1

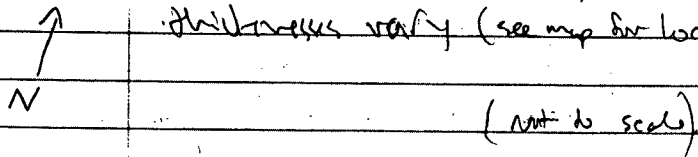
- Snow + rain

On the top of the mtn. we have found a large arsenic vein of gk ~ 30 - 35 cm across with 30 to 40% arsenic (sample R1)

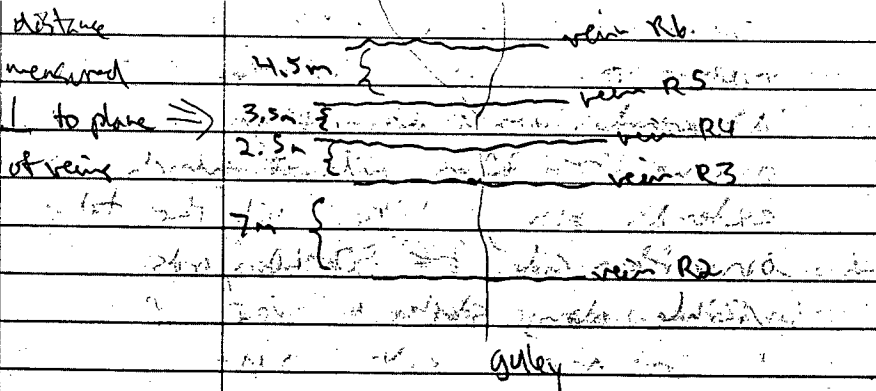
- We have found more large arsenic veins near the one we discovered last night. They are in a zone ~ 20m wide & which extends along strike into the talus on either side ~ 50-60 yards visible along strike.

R2 - a 4" wide "vein?" of
 rusty, weathered material, no
 fresh surface visible & no
 minerals identified (about 7m below
 the first big arseno vein)

Sketch of zone with large
 arseno veins. All veins are sub parallel
 at about strike 260° dip 20° North
 thickness vary (see map for location)



most veins visible for approx 50m
 ← → drain takes



vein R3: 4 inches wide
 arsenopyrite about 70% of vein
 + some light siliceous host rock

vein R4: 3 inches wide
 arsenopyrite & galena (about 5%)
 possibly traces of sphalerite (uncertain)

vein R5 ~ 4 inches
 mainly arseno ~ 20% of
 no galena visible

vein R6 ~ 4 to 4 1/2 inches
 90% arseno, ~10% of

There is some mineralization along
 & below this area. A 1" wide
 arseno vein was found about 100m
 down the slope and the chances of
 there being more between are
 good as exposure varies along the
 gully. Disseminated & small veins
 of pyrite & pyrothite occur in many of
 the rocks in the area. We
 still haven't found the source of
 the boulders in the talus which go
 up to 50% disseminated arseno (possibly locally)

mineral large veins.

We have tried to dig the vein out to see ~~how~~ extent along strike, we only dug them until the talus gets thicker than 1 1/2 feet. The area on this side of the mountain is mostly talus.

Aug 2 raining & stormy.

Because of pour visibility, and very strong winds we will stay down in the valley south of camp & head west.

There are a few boulders in the stream with ~ 2% pyrite no evidence of pyrrhotite or arsenic.

one small pocket of pyrrhotite found in a dark pelitic host. no arsenic or mineralization found

S1 - dark fine grained bedded siliceous host with up to 7% pyrrhotite disseminated and also small arsenic. Some minor slip of material

S2 - T. a. light vein in very siliceous matrix siltstone - 2 1/2 inches with visible moly, ~ 2% and arsenic ~ 2%.

- the very top & far side of this mtn should be gone over, its too steep & slippery to climb around when its wet.

Aug 3 still stormy & wet

We have decided to stake parts of the area we have to go about 1 1/2 km down into the lower valley and cut trees for posts, then haul them up

we have staked 4 claims the "Scrunk" claims. we may need three more to cover the area. We walked up a ravine on the back side of the mountain east of camp, nothing much was seen, we didn't see the zone with the 4 large arsenic veins. But we have found a 3/8" vein

of solid galena in the talus south of camp. We will try to trace it to source it probably came from the mts west of camp.

Aug 4 - stormy and rainy

mta west of camp
Sample T1 talus
a 2" qtz vein in the volcanic with large plagioclase - there is approx 10% arseno in large "blebs" throughout the vein

much of the volcanic in this area has ~ 2% arseno.

12 - a high graded sample 3/8" thick arseno layer in a 1 1/2" qtz vein in talus.

T3 - a 2" thick arseno qtz vein in talus. In some places it is 2" thick of pure arseno in others it gets down to 10%

- I am fairly abundant abundant qtz veins in the talus. Most of the veins show arseno to 10 or 20% arseno.

The "volcanic" is interesting. It has large well aligned phenocrysts of plagioclase, they get up to 3cm in length, average length is 1.5cm or slightly larger, the laths are thin and many are zoned. In some areas the rock is "lath supported" and plagioclase makes up about 85% of the rock. The other phenocrysts are smaller hornblende crystals.

Arc comp. range
Plagioclase ~ 65% (7-85)
hornblende ~ 10% (consistent)
qtz ~ 10% ($\pm 2\%$ sulfide)

probably plagioclase + hornblende make up the rest. In most of the plagioclase, hornblende and quartz veins the ground mass between the phenocrysts are visible minerals indicating a plutonic rock, as we go west there are areas of rock (continuous) where the ground mass is too fine to see individual minerals. And areas with only 10-15%

phenocrysts and a fine-grained mass

This may indicate a porphyritic intrusion with a "chilled margin" effect accounting for the fine ground mass.

Regardless there are between 1 and 2% visible sulfides in the rock (concentrated locally) mainly pyrite & pyrrhotite. Veins within the rock itself are plentiful and contain Qtz, arsenic, pyrrhotite and pyrite.

The mountain which the rock comes from has near vertical cliffs, so we will need better weather if we hope to locate it even parts of the north side.

A vein and a few small boulders of pure calcite were found in the talus, by the small pond.

Aug 5th overcast

We are going to stake 3 claims then search the main west of camp to dry and look again for veins in our camp and up to some more Qtz-arsenic

veins.

-Travelling up a gulch on the south slope of the main west of camp

Sample U1

An altered and rusty weathered unit in the light colored meta-gtz siltstone. Consists of mainly siltstone as broken fragments with rusty weathered material between the fragments. In o/c

U3 - bedded siliceous siltstone - green-grey and white. Pockets of pyrrhotite ~ 2% abundant in o/c.

U6 - purple pelitic host. a 1/2" vein of about 50% arsenic, the arsenic also occurs in and along fractures outward from the vein. The sample is a "chunk" of the rock - 5" x 5" with the vein running through it (not high grade).

U7 - light pelitic host - a 2" Qtz vein with up to 50% arsenic plus white rock with disseminated arsenic veins cross cutting bedding. In o/c

U8 - large gte vein up to
1 foot thick in places. gte veining
is very abundant throughout the area
the vein contains about 5% arseno
some pyrite visible (in place)
(about 50m north of U7)

U9 - (G.C.) 1 1/2" vein of
arseno 60% and galena 40%
= pyrite

There are abundant gte
veins throughout the area
traversed, most have arseno
in variable amounts. There are
a few veins of mainly
pyrite & pyrrhotite, and pockets of
mercurite are common.

Aug 6. overcast but no rain
We are going to strike one or
two more claims to ensure the water
to the west is covered then we will
try to look at more of the
cliff faces and gullies.

-heading west past the small pond
a dark pelitic rock with a purpleish
color is abundant in the talus, it has
about 2% pyrrhotite, and shows considerable
attraction by a magnet. It may in part
be responsible for the large mag high
There are a few highly weathered
boulders in the talus which show 3 to
4% sulfides, mainly pyrite with some
pyrrhotite

V3 - Black pelitic rock with
1-2% disseminated pyrrhotite
(the major vein unit of the area)
It may be called a hornfels and
the areas "spotted" hornfels.

V4 - talus - 15% impure plagioclase
a fine ground mass with 5% + biotite
as small crystals - 1-2% pyrrhotite

V5 - in place - a vein of
gte and pyrite - 75% pyrite, 1/2"
There is another 1/2" vein about 3 inches
above it with 90% arseno.

V6 - a 1 1/2" qtz vein in 0%
mainly barren there is a trace
to 1% arseno.

V7 - a 1" qtz vein with
traces of moly, except for the moly
it looks essentially barren. 3 or 4
other qtz veins within 2 m.

V8 - a 4" qtz vein with
~ 50% arseno, with a 1" arseno
vein and more qtz veins about 4"
below it; + a small 1/4" arseno vein
above it.

in the area there are
5 or 6 more large qtz vein
similar to this one, and plenty
smaller ones, most show visible
arseno ~ 5 to 40%.

V9 - a 3" vein with qtz 70%,
arseno 20%, and galena 10%.
Similar veins above.

It's starting to rain we
have to get off the cliff
area

Qtz veining occurs in 2 or 3
directions in the igneous rock.
The density varies from every
few meters, to every centimeter
apart. Arseno mineralization is
variable - in some places there
is loads arseno in the vein, in
other it gets down to 5% or less.
Galena was found in two of the
veins.

Aug 7 Rainy - windy & foggy
We are restricted to the valleys.
We looked at some of the outcrops
along the stream but that was
ruined on previous traverses. Nothing much
new was discovered, a few more
pyrite veins similar to those found
in the outcrops directly across the
creek (along strike). Looked around
in the talus near camp.

The bottoms of the clouds
are about 1000 feet below us,
visibility is poor. We have planned
a 4 day traverse to the west, to
look at 3 mgs. high. If we stay
in the valleys the weather should not

affect us too much.

Aug 8 - We have started a
four day traverse to the west
cloudy & overcast.

- mainly chert & siliceous dark
pelitic siltstone along first valley to the
west. Some is weathered rusty and
has traces of pyrite. Nothing abundant.

W1 - a two piece sample from talus
a small chunk of vein with
approx 25% arseno and a small
chunk of vein material with
approx 10% pyrite. The pieces themselves
are too small for assay, and no

other veins were found, so I put them together
they may or not be part of the same vein.

W2 - talus from near granite
intrusion. etc. plus K-spar plus
2% arseno disseminated throughout.
It appears to be a more mafic igneous
rock.

We have passed over a mountain
of shale and thin, bedded
mudstone only traces of pyrite visible.

The road into is solid granite
with little & boulders. Veins in the
granite (as we approach the lake we
are going to camp at) consist of
orthoclase and calcite.

As we near the lake some of
the veins have thin druses of
black wolframite on the outer edges.

- rain & windy.

Aug 9 rain & overcast.

We have climbed the mtn to the
North west. There are veins of
mainly qtz and orthoclase with thin
traces of the black mineral. We are
continuing along the crest of the
mtn looking at the boulders.

The rocks are mainly siltstone
siltstones and chert we are out of
the boulders area. There are
a few qtz veins in the area
most appear to be barren, some
show traces of arseno (very fine).

W3 - a small qtz vein with traces
of arseno. From top of mtn etc.

There are traces of pyrochlore in the rocks which in part be responsible for the mag high

W4 - A vein of almost pure wulfenite at least 4" wide in outcrop and in talus at the very top of the mountain. Some gte (5-10%) and traces of pyrochlore.

- rain

We travelled along the ridge from down the west side no more veins found.

We have gone along the talus slopes from the mountain across the valley a few gte veins were found, nothing interesting was seen.

Aug 10

Travelled up the granite from the lake to the pass. There are a few veins of wulfenite (2-5mm)

W5 - 6 to granite - veins wulfenite

W6 - 1 1/2" veins of mainly wulfenite possibly traces of malachite. Some talus.

A few large veins of wulf seen near top of pass. No arsenic yet.

W7 - talus, a rock with approx 5% pyrochlore & traces of pyrite

There is pyrite & pyrochlore in many of the rocks along the talus from the mtn on the south side of the valley.

W8 talus from mtn on north side of valley siliceous rock with 3% pyrochlore & alloy material.

A few more small wulf veins seen in granite in crevices was seen.

Aug 11 Sparse clouds sunny

X - A hill. We have climbed over a pass to the east and came down

the other side to a small lake. The entire traverse so far was through granite. There were a few wld + gtz + ordn ± calcite veins and near the top we have found some chalcopyrite in the veins.

Sample W9 - wld vein with ~ 1-2% chalcopyrite. No visible arsenopyrite.

We are out of the granite and into meta sed. Traces of pyrite cause rusty weathering.

There are a few boulders in the talus with traces of pyrrhotite and pyrite. A few samples were taken in this area and traverse "G".

The next 4 to 5 km back to camp is mainly cover.

Aug 12

We are going on a 3 day traverse east of camp. It didn't rain yesterday or today. There is scattered light clouds so we should be able to climb the mountains & walk the "knife edge" ridges without too much difficulty.

We have climbed up the mtn to the east of camp and along the ridge heading south. Traces of pyrite & pyrrhotite were found in pockets & small veinlets, some of the green altered stuff was seen in veins.

We went down the mtn and added "scout 5" claim to cover the upper portion on the east side of the mtn.

X1 - a highly weathered cherty rock with abundant small gtz-veinlets throughout. In other abundant.

X2 - G.C.

X3 A highly weathered limonite stained gtz vein. From talus approx 1" thick.

The "bar" and the small pond we are camped at contains chert, meta-pelitic rocks and a fine conglomerate to pebbly sandstone unit. There are sparse gte veins, most appear barren.

X4 - G.C

Aug 13

We have climbed up the mt to the north & gone east along the ridge. Mainly chert & shale, pyrite carries rusty weathering.

X5 A rusty weathered pelitic small gte-chert veins & nodules in etc. Along top of ridge.

X6 about 200m east of X5 in etc on ridge. Similar to sample X5 but a few small chert nodules & grains of pyrite visible.

The ridges are getting steep & "knife-edged" most of this shale & chert is loose and unstable. Shale & meta siltstone along most of the ridge with bed of chert.

Aug 14

We have followed the creek down then I went up the mt to the North. Grant has gone up a ravine to the west. Mainly chert & shale.

X7 a large piece in talus (6" x 4") of mainly granular altered gte. Some rusting and ~ 2% of what may be wolf.

There are a few bivalve gte veins 1 to 2" wide, seen in talus on the way to the dip.

X8 from stream talus, along the stream in the valley. A highly weathered conglomerate.

X9 - Stream siltstone.

X10 A relatively fine
grained granodiorite with
approx 2% rusted patches
throughout.

X11 a zone ~ 5m across
with highly altered yellowish
material. In outcrop at side
of creek.

X12 A wide altered soft
rock (not calcite) with 2-3%
very fine disseminated sulfide.

I have climbed up to a
bright red rusty patch on the
side of the mtn to the north.
It is 15m across by 25m in length.
No vegetation is growing on the
"rusty patch". I dug down about
8 inches in a number of
places and I hit a few pieces
very rusty rock that appears to
be in outcrop. I walked up
about 50m above the "patch" and
dug down through the moss and
dirt and hit the same type of rock.

I went about 200m above the "patch"
& dug down into normal grey soil
with no indication of the rusty zone.
The area around the rusted area
is all covered in moss & small trees.

X13 a chunk of the porous
highly vented rock. It is rusted
bright red - orange. Some pieces
appear to be a calcarenite or
breccia welded together by a
dark material which is rusting.
In some places there are elongate
holes that appear to be roots replaced
by the pore filling mineral. From
0% (probably) and near surface.

X14 the same stuff as X13 but
from 6 to 8 inches below the surface
there are less pore spaces.

There are pieces of similar brecciated
rock along the main stream.

As I climb up & towards camp,
the outcrops on the ridge are
mainly chert.

Samples X15 to X18 were taken by G.C.

We have taken down camp and are preparing for the helicopter which should be here tomorrow morning to take us to Mac Pass.

Aug 15 moved by helicopter to Mac Pass. Drove to Ross River then part way to Watson Lk.

Aug 16 Drove to Watson Lk. Registered claims, shipped rock samples to Whitehorse, bought some more supplies, then drove down the Nahanni Range road to near where we will hike in. There is a large washout at km 34, we almost couldn't get through.

Aug 17 we have gone over our maps, maps, gear & gear. We planned a 7 day trip which we will start tomorrow morning. Today we have hiked in to the

east of the Nahanni Range Road to check out a few geochron highs.

The mtn on the south of the valley is largely a porphyritic granite.

Sample Z1 - a 1" quartz vein in altered siliceous host rock. Vein appears barren. Take.

Z2 - 2" quartz vein in altered host rock. Vein appears barren. Take.

Z3 - a mineralized quartz vein. Vein is about 10" thick with pyrite & possibly pyrrhotite with a very fine dark mineral in places. Sulfur content about 5%.

Z4 - 6" quartz vein in altered host rock. Vein appears barren. Take.

Z5 - 6" quartz vein in altered host rock. Vein appears barren. Take.

Abundant pyrite. Black mineral phases are abundant, 1-2% sulfur.

Z7 - a qtz rich vein plus
a phyllite host with ~5%
pyrite disseminated & in large
vegs - up to ~2 cm.

we have found similar rocks on
the north side of the valley or
- rain

Aug 18. We have started out on
a 6 or 7 day hike into the
mountains to the west of the
Nahanni Range Road.

The first 4 km are
covered in moss & willows.
We have gone up a valley to
the south, we are finding
abundant qtz veins in the
stream some have ~2% of a
weathered sulfide. Because of the
length of our hike we have
to be selective as to what we
sample so we will dry and sample
occasional rocks in the

Z8 - large qtz veins - in an
altered siliceous host which has
large - grain sized clusters of qtz.
The qtz veins have rusty patches
within it but no ore sulfides
visible. These qtz veins get up
to 12" thick and are abundant
in the area.

We have reached the top of the
pass and have set up camp in
a large alpine meadow.

We have gone along the mts to
the east & down into the valley
to the south east. Qtz veins
are everywhere and make up
50% of the rock outcrops in areas.
We have found a few traces of
arsenite and one small galena
crystal otherwise most veins are
barren.

Z9 - an apparently barren
qtz vein sample
start of work this afternoon.

Z10 Large gtz rich siliceous
zones in $\frac{1}{4}$ mile width up to 3-4%
pyrite disseminated & in small
veinlets.

~~21~~

Aug 19 - Rainy

We are exploring the mtn.
to the west of our first camp.
- abundant gtz veins most
are barren.

Z11 a small pyrite-gtz
vein $\frac{1}{2}$ " thick in siliceous
cherty rock. Abundant phyllite
in the area.

The gtz veins continue
all the way along the far
side of the mtn. Not much
change, most are barren or contain
traces of rusty patches throughout.

It's raining very heavy.
And clouds have come in.
visibility is about 10 feet.

I have "lost" Grant, he was
somewhere about 100' in front of
me.

I had to use a map &
Compass to get back to camp, I
still almost walked right past
the tent. Hopefully Grant will do the
same.

The rocks were similar on the
way back abundant gtz veins.

Aug 20 6:00 A.M. Grant
showed up cold, tired and wet.
He spent the night in the trees on
the opposite side of the mountain. It's
still raining, I think it will be a
slow day today.

About 1:00 pm we broke down camp
and headed south then west ~~then~~
then north ~~and~~ up the larger valley,
we set up another camp (located on
the 1:50,000 topo). There was mainly
cover along the way, boulders in the
streams had abundant gtz veins.
No samples were taken. A large
blue berry anomaly was heavily
sampled along the way.

Aug 21

Rainy

We are going up a mountain & valley to check a mag high.

Z12 gtz vein noted with no visible sulfides. Gray phylite host

gtz vein is moderate in area

Z13 gtz vein with traces of pyrite. vein is 1/2", in a coarse grained sandstone. gtz veins abundant in talus

We have moved down to the talus the cliffs are getting too steep.

Z14 talus over orange weathered gtz - conglomerate, no visible sulfides

Z15 weathered pebbly gtz sandstone from talus. Similar to Z11.

Z16 talus, a meta gtz conglomerate with visible pyrite abundant in area.

Z17 similar to Z16 but more pyrite visible 1-2%

Z18 - gtz vein in talus with 2-3% pyrite as dissemin. cubes

We are at the mag high shown on the map, the meta sels show more pyrite & some gtz veins have pyrite.

Z19 a gtz vein 4" thick with visible possibly only as very fine dissemin. X'tals. talus

Z20 2" gtz vein, talus, with 2-3% sulfides as in Z19 the I.D. is hindered by weathering to fine grain size. only 3" galena 3' at 1' with

Z 21 weathered gtz vein
takes pyrite 1-2% in
small pods.

We have followed the
stream back to camp. There
is abundant gtz veins.

Aug 22 overcast with rain showers
we are going to look around
the mtn. north west of camp

Abundant barren gtz veins
seen on the south side of the
mtn.

Z 22 a 1/4" thick vein
of pure pyrite in a grey-
green phyllite takes

pods of pyrite common.

Z 23 black - dark green
phyllite with 2% pyrrhotite

Z 24 gtz veinlets through a
gray black phyllite with
lots of pyrrhotite & pyrite in the
veins ~ 2% sulfides takes

we are finding a lot more
sulfide mineralization in this area.

Z 25 takes a large
chunk of an arsenopyrite
vein along with the associated
green mineral (pos covellite). 2 to
3" thick approx 50% arseno

Z 26 a gtz vein - boulder
from takes 4 to 5% pyrite
and pyrrhotite dissem and in
veinlets.

The clotts along this mtn. are
interbedded meta sandstones (quartzite)
and slates.

Z 27 a gtz vein with takes
with 5% arseno dissem and in
veinlets

Z 28 a 3" gtz vein
in slated. It appears barren.
Gtz vein is very abundant
some get up to 12" thick

We were unable to
find arsenic vein in outcrop

We have crossed a ridge
and looked at the talus in
the valley directly south of this
area.

The soil veins are similar
in this area a decrease in
pyrite & no arsenic was found.

Aug 23 steady rain & fog

We are going to look at
a very high north of east of
camp. We are restricted to the
valley because of the fog.

Z 29 a nearly barren
gtz vein from talus at the
base of the outcrop. No
sulfides identifiable, 3" thick.
gtz veins abundant in area.
main meta conglomerate & quartzite
in area.

Z 30 gtz boulder with up
to 8'6 chlorite as veins
throughout. There are traces of
sulfides in the "chlorite".

Z 31 gtz vein, talus, no
visible sulfides, chlorite rich
phyllitic host, also meta conglomerate
around.

Aug 24 stormy, rain.

We are going to try to
walk at the valleys to the west.
Rain & sleet will make it difficult.

Abundant gft veins
in old and n creeks.
No visible sulfides

Mainly slates to phyllite, and
quartzite some meta conglomerates.

We crossed over the
mountain to the north, its still
wet and rainy.

Abundant gft veins, most
appear barren. The rocks are
the same as those previously
encountered.

rain and fog visibility
is low.

Aug 25 overcast light rain.
we have packed up camp and
are going to take truck out to
the Nahanni Range Port road

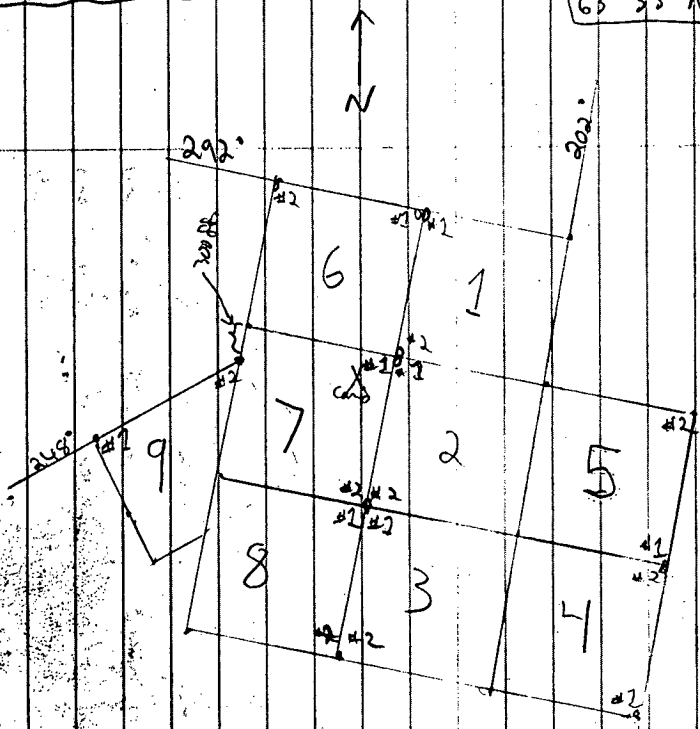
- We have reached the truck, the
rain has stopped.

Aug 26 - We have
began the trip back to
Edmonton

Drove to Watson Lt. then
Dawson creek.

Scout claims

area is 10 km west of NW 1/4 west of road etc
 $63^{\circ} 35' N$ $131^{\circ} 22' W$



Scout 1

NO 1
Scout 1
S
1500 L
Aug 3
1990
S. Ebert
G. Cature

NO 2
Scout 2
Aug 3
1990
S. Ebert
G. Cature

Scout 2

NO 1
Scout 2
S
1500 L
Aug 3
1990
S. Ebert
G. Cature

NO 1
Scout 2
Aug 3
1990
S. Ebert
G. Cature

Scout 3

NO 1
Scout 3
S
1500 L
Aug 5
1990
S. Ebert
G. Cature

NO 2
Scout 3
Aug 5
1990
S. Ebert
G. Cature

Scout 4

NO 1
Scout 4
N
1500 L
Aug 3
1990
S. Ebert
G. Cature

NO 2
Scout 4
Aug 3
1990
S. Ebert
G. Cature

Scout 5

NO 2
Scout 5
N
1500 L
Aug 12
1990
S. Ebert
G. Cature

NO 2
Scout 5
Aug 12
1990
S. Ebert
G. Cature

Scout 6

NO 1
Scout 6
W
1500 L
Aug 5
1990
S. Ebert
G. Cature

NO 2
Scout 6
Aug 5
1990
S. Ebert
G. Cature

Scout 7

NO 1
Scout 7
S
1500 R
Aug 5
1990
S. Ebert
G. Cature

NO 2
Scout

Scout 8

NO 1
Scout 8
S
1500 R
Aug 5
1990
S. Ebert
G. Cature

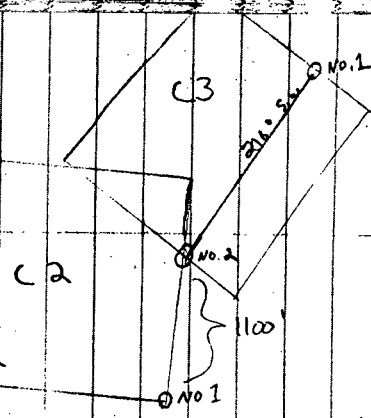
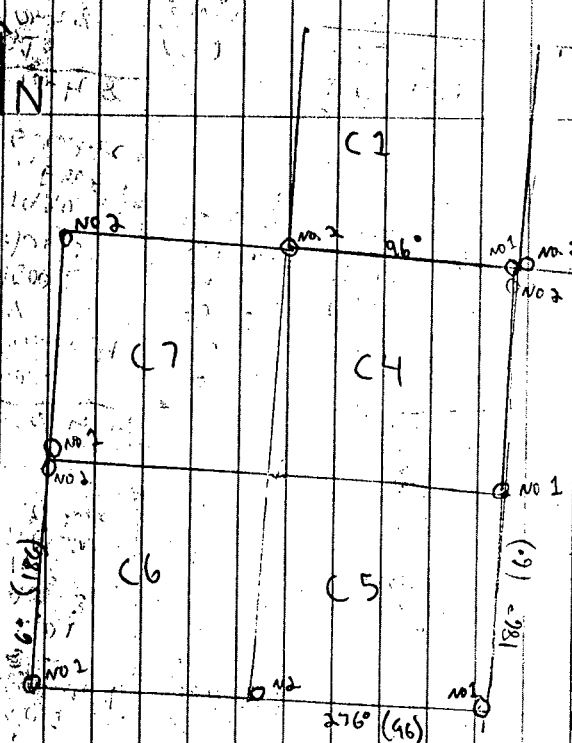
NO 2
Scout 8
Aug 5
1990
S. Ebert
G. Cature

Scout 9

NO 1
Scout 9
E
1500 R
Aug 6
1990
S. Ebert
G. Cature

NO 2

CHRISTINA CLAIMS



NO 1
Christina 3
SW
900 R
100 L
July 22
1990
S.E.
C.C.

- Claims 1, 2 & 3
are July 22st

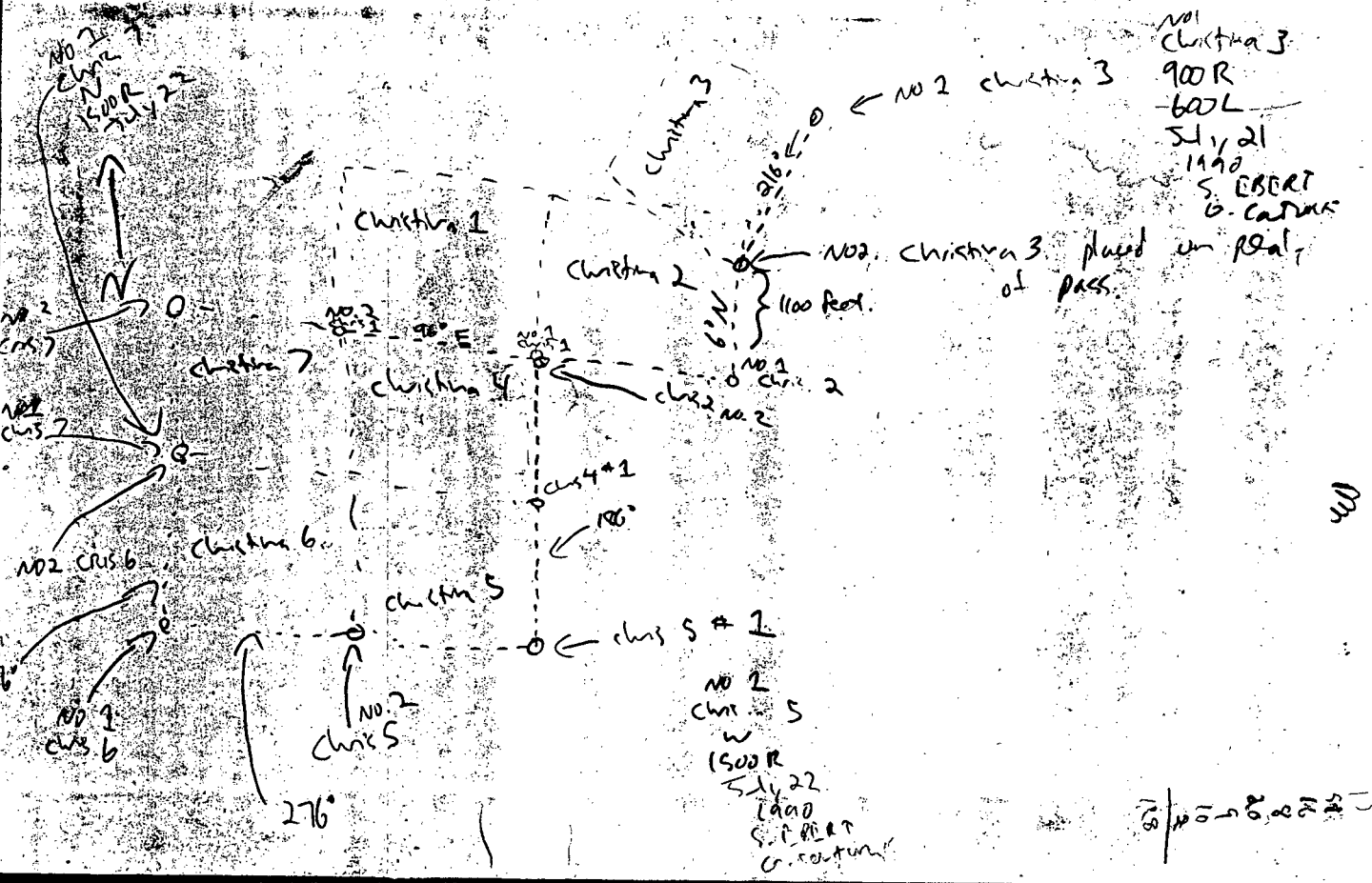
- claims 4 to 7 are July 22

* all claims except Christina 4
1500 R, Christina 4 is 1500 L (C3)

all claims are 1500' by 1500'

63° 33' North 131° 27' W

Area is in the Rogue Ranges of the Hess Mountains (Selkirk mountains)
13.5 km west of Emerald Lte. Exact post locations shown on claim map.



Field Notes Grant Culture

Traverse A

Specs Taken:

30. A

float

black acicular to columnar

many crystal faces

upto 3mm in length

minor quartz ass.

some parting present

slightly magnetic?

Notes Ridge edge of plin

steep: ropes needed

will walk along ridge \perp to

strike of local bedding.

-granitic to syenitic pluton was

encountered all the way up the ridge

N of camp.

PARTY CHIEF.....

WEATHER.....

Notes:

Ridge NE of camp

Minor shading of pyrite in
pelitic host rock

also veins related to sulphide

Minor < 1cm

-worked our way along ridge
checking d/c and values along base
of cliffs

-set up 2nd camp

July 10, 90

Area: Traverse A

Weather: scattered showers

Cool

Notes: Map for traverse

-check on Mag. anomaly

PARTY CHIEF.....

WEATHER.....

- valley over (east) of anomaly

- veins of arsenic, pyrite and chalc. were found in o/c and float

- will return to do detailed mapping and possible claim work

- veins of massive sulphides also found lower in valley along creek. ass of quartz veining

must trace along strike and map in detail

further exploration is warranted

July 11 90
weather cloudy
Area Traverse A.

notes Made way back to camp
sampled coal north of camp

checked out talus S of camp and to the W.

- set up radio

July 12, 90

Area Traverse B

weather Partly Cloudy

SAM 3EB B

- UIC rich rusty sample
may contain minor sulfides
predominant secondary weathering
minerals

Notes

- took total of 1 sample
2 volcanics to find anomalies may
and two chert

- gully up to main camp contained
sample of gray host sulfides
sample taken

JOB.....

DATE..... PAGE.....

- pluton to N

gully 2 was explored sample
taken pods of arsenopyrite w/ ass
to wulfenite series minerals

July 3, 90

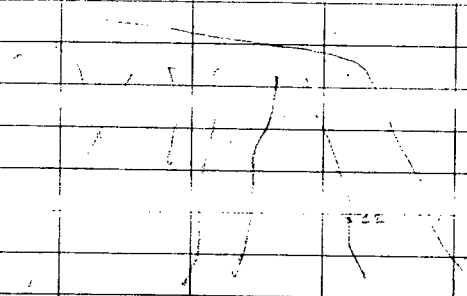
Weather

Partly cloudy

Area

Bath. to North

Investigate anomalous arsenic appearance
along gullies

NW
wade

PARTY CHIEF.....

WEATHER.....

JOB.....

DATE..... PAGE.....

Samples

C2

- purple quartz

- massive

- minor rusting, no visible sulfide

C6

- talus

- granite

- malachite staining

- chalcocite only within

malachite staining.

C11 d/c

- sample taken across vein

- included bedrock - d/c

- wulfenite

- 1/2 of entire vein.

C3 - d/c

- high grade across vein

- no bedrock in

PARTY CHIEF.....

WEATHER.....

NW
wade

JOB.....

DATE..... PAGE.....

C15 o/c

- high grade vein only
- laterally 15M

CA

o/c

- high grade arsenic vein
- 2cm in width
- minimal wall rock alteration
- are also 4cm on each side of vein

Note: smaller veinlets 1cm are also
in the area
picture of main vein was taken
all in o/c
radiate off of main vein
does not show similar zone

C21 o/c high grade sample

lat. ext. 0.5m

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

C22 o/c

- vein sampled
- no visible sulfides
- no o/c sampled (gln + sulfidation)

C24 o/c

- vein across including granite
- no visible sulfides

C 28/29

o/c

- zone of 3 veins ranging in size
from 3cm to 1cm
- sampled across vein
- high graded
- followed for 3cm laterally continuous
other veins also present and mineralized

C30 - o/c

- large vein 4cm diameter
- sample across same vein
- highest thus far on the Mt

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

July 14 90

Weather: Partly cloudy

Area: Mount Skiddlenow
N of camp

Notes:

- Traverse up to lake north of camp then up the ridge.

SAMPLES

C 52

- sample taken across vein

compos.

- mostly contains wulfenite crystals
- visible chalcocite and pyrite and arsenic
- above orange water bearing vein
- 2nd gully off corner
- adjacent veins present, 5m in width
- visible sulfidic

PARTY CHIEF.....

WEATHER.....



wade

JOB.....

DATE..... PAGE.....

C 53

Sample across the vein 3cm up hole.
some visible sulfidic

small stream

- bearing 100° to edge of large lake
- 150-200m above well along ridge.

July 15 90

Weather: clear to partly cloudy

Area: Traverse D

D3

- disminute sulfidic material
- up to 50cm
- hosted mainly to quartzitic
- beds to dark purple

D5

- mainly to quartzite
- disminute sulfidic
- bedded in places

North side

PARTY CHIEF.....

WEATHER.....



wade

JOB.....

DATE..... PAGE.....

Notes: Followed creek in valley East of camp

- sulfides are abundant

- staining is clay matrix, mostly orange

- samples taken

- up to 5 zones of sulfide rich ore present.

- fault gouge in place found in talus slope above creek.

- pluton is ~~300~~ 400m NNW of creek

Notes:

- Moving down investigate what looks to be a large vertical d. be

Aplite Dyke

- 20m in diameter

- pyrite mineralized up to 20-25%

- contact mineralization zone

10-20cm

pyrite min \uparrow to 30% at contact

10% pyrite at margin.



PARTY CHIEF.....

WEATHER.....

JOB.....

DATE..... PAGE.....

Sampling.

Aplite dyke in stream contact

Field # 1 - 5m from contact

contact

10m from

at contact

20m away from (gravel bar)

July 16, 90

Weather: clear

Area: Camp day

- organized maps and placed traverses and samples on maps.

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

July 790
Weather: clear

SAMPLES

- E2 o/c - pod - up to 30cm
 - pyrite in matrix
 - pellets with high gtz
 contact
 - 10-15% sulfides disseminated
 throughout.
 - pod runs along strike for
 7-8m

- F4 Talus
 - pelitic
 - disseminated sulfides
 - yellow orange weathering

PARTY CHIEF.....

WEATHER.....



wade

JOB.....

DATE..... PAGE.....

- Notes: - pods of sulfide rich areas when
 found as we moved up the
 gully
 - incised veinings (gtz) was
 also prevalent

Notes:

Brecciated mineralized fault zone

Est. of Area

Length 100m? →

width 10-15m

- Brecciated fault zone extending on
 high gradients the region

- Sample contained

- talus below was sampled, showing
 up red kaolinite, serpentine and quartz
 in matrix

PARTY CHIEF.....

WEATHER.....



wade

JOB.....

DATE..... PAGE.....

July 19 90

Weather Part cloudy

SAMPLES

H1 - tubers
 - yellow/gray / many
 - disseminated sulfide

H2 - tubers
 - gray
 - minor plants, sulfide

notes warning abundant multiaxial

- woffen's gray, green self

July 20 90

Weather part cloud

Traverse I

- no samples to be
 - clasts of observed

JOB.....

DATE..... PAGE.....

July 21, 90

part cloudy
 the morning

- found veins on Mt
 - As with found they
 - small spots

July 22, 90

part cloudy

- found veins
 - small spots
 - colate red zone found

PARTY CHIEF.....

WEATHER.....



PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

July 23, 90

Notes: - 11 - to West

of camp

- three new veins were sampled

- thus extending the zone of alteration up to 200m

from the creek and around microcline zone.

Two samples were taken at zone 1 (brecciated rock site)



PARTY CHIEF.....

WEATHER.....

JOB.....

DATE..... PAGE.....

Weather: Hot + Clear

Date: July 23 90

Traverse I

SAMPLE #1 (bearing 60° at camp)

IRFNC (Inclusion rock found near cliff)

- grey matrix vein, showing mineralization

SAMPLE #2 (bearing 60° at camp)

- brecciated mineralized sample
- white rock matrix

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

July 24

Weather

SAMPLES

24 / L / 1

- fine basalt gravel

24 / L / 2

- talus top of ridge (100m from

- veined pelitic

sulfide veins 2cm in diameter

- not doing samples



PARTY CHIEF.....

WEATHER.....

JOB.....

DATE..... PAGE.....

July 25, 90

Weather: cloudy

Notes: Final maps of traverse was completed

- maps to 1km² were prepared

- maps from area 2 were prepared

- initial run of talus slope
to N of camp 2.- noticeable gty veining
seen up to 30-40cm in
width

- arsenic, Ag along contacts

25/1

- arsenic vein found base
of talus slope

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE.....

PAGE.....

July 26, 90

Weather: Rain, wind

Area: T-12-1-1

Initial course follows down a
 valley (near NW) then
 back up river following a
 along its path.

M2

M1

along border, plumes
 +100

M3

volcanic rocks
 minor sulphides
 (G.I.) not for assay.

JOB.....

DATE.....

PAGE.....

M2 - check out

- ped hc 10-15% p. trace AS.

Mostly weathering
 - sparse occurrence

with part of par arsenic?

green alteration under around pyrite

Traverse M followed the outlet creek
 from base camp. Moving NW then
 backtracking to rise up the stream to the
 NE. Pyr. was abundant in many samples
 taken today. It was rising in with
 a silicious to dark host rock. Arsenic left
 up to 1m were located N of camp
 500m down the NW stream.

M4

a. dark arsenic border.

PARTY CHIEF.....

WEATHER.....

NW
wade

PARTY CHIEF.....

WEATHER.....

NW
wade

JOB.....

DATE.....

PAGE.....

July 27, 90

Weather: Foggy, rainy

Traverse: N

on wall
and gtyitic host.N2 arsenic vein found on talus
also with gty.

N3 Ar vein in gty

(RHR) dipping 60°
strike ~~100~~ 120°width: 2cm
alteration width 0-15cm

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE.....

PAGE.....

JOB.....

PAGE.....

N3 - high grade sample

N4 arsenic vein including wall rock

27/2 arsenic vein
including wall rock.arsenic vein including wall rock
sampled 5-10%N5 pure mag? with some fine grained
5-10%
+ multiple gty and calcite
- follows fracture joint.

Along to N of camp.

+ gty veins found assoc/mag, arsenic
- pure rich pelitic to quartzitic rocks found
also along ridge may run along
strike with creek samples.

PARTY CHIEF.....

WEATHER.....



JOB.....801

DATE.....7/28/90.....PAGE.....7/28/90

No. 1 - Talus
 - black. fine grained. pl. thin
 - vein like as up up
 10-15%
 - block was 0.5m x 0.5m the
 vein was continuous dark

July 28/1990

Weather: Partly cloudy. Partly Sunny.

Traverse O

S. 100'

#1 arsenic pure vein like
 o/c

up to 2m thick of ore - pure arsenic
 as 40-50% but to 10%
 py

88/1 gfg vein + bedrock in place
 - laterally continuous 10m
 - many veins in area
 - structurally complicated area
 - Faulty rd 10m.

PARTY CHIEF.....

WEATHER.....



JOB.....801

DATE.....7/28/90.....PAGE.....7/28/90

#3 Arsenic vein, As 30% py minor.
 1.3m wide
 ass of structural complexities
 along bedding plane.

- o/c 25m below ridge

23/3 - talus, below col on south
 - vein ore type
 - Bin thick dark ore
 - laterally associated with route.

28/4

- structural piece
 - Bin as mentioned, located up to
 2m.
 - highly deformed.
 - Found by #3

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE..... PAGE.....

July 29/90

Weather overcast

Traverse SP

1. Sulfide bodies
up to 1m. P₁, P₂ 5% - 17%

#2

0.6 10m up strike from 1, pods of py,
pallid; faultward bedding planes
gone up to 0.5m in width
to 30% Py 1.5% Py 2.1%

The sulfide zone was followed along
strike for 300m. Many pods were found
throughout.

PARTY CHIEF.....

WEATHER.....

1

NW
wade

JOB.....

DATE..... PAGE.....

Traverse continued up towards S. ...
... Arsenic and galyen bearing py
were sampled

Small arsenic vein ass with galy was found on
ridge to south just above cul.

1 cm thick, alternating cherty green/blue min.
... 3m along fracture.

1.5
Weather overcast

Maps were prepared for area (2:00-2:30)

May 29
Traverse ...

PARTY CHIEF.....

WEATHER.....

NW
wade

JOB

DATE

PAGE

July 31, 90

Cloud o c

Traverse Q

#3

- 5-10% sulphides As.
- many 5-10% weathered
rusky veins up to 2mm.
- pink weathered matrix
- talus.

#4

- Course and interbedded with chert.
- 20-30% sulphide
- red/orange weathered
- talus

#5, 6

- silt samples from crevices
- very coarse.

JOB

DATE

PAGE

Q 2

- disseminated sulphides
- low sulfide content
- thin oxide
- low to moderate cover
- grey ass.
- along joint plane

- sulphides were distributed abundantly
- unmineralized talus
- chert veins 3 were found on drainage
- 2 mi.
- in place
- with 30% talus

Traverse

- went to gneiss matrix structure
- for traverse line
- mineralization was found in talus



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wade

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DATE 3/19 PAGE

Aug 1, 90

Cloud: clear

Transverse R.

R1

N
↑

R1

A e d c b a

- Chip sample taken across zone
- AS 30-40%
- 30-40cm diameter
- laterally followed for 2m then takes cover
- other veins in area

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JOB

DATE 3/19 PAGE

- structural complex area

R2-R4

- Zone of 4 veins ranging from 2cm to 5cm in width

other minerals (m, py, pyr, boronite)

- veins range from 2.5 to 3.5 meters

- laterally extensive: followed for 75 to 100 m to cover

- <10% exposed from talus

- alteration up to 20-30m

- small veinlets around R5 vein

ass of qty.

Aug 2, 90

weather fair

Phase 5

- SW of core, Talus dump was investigated

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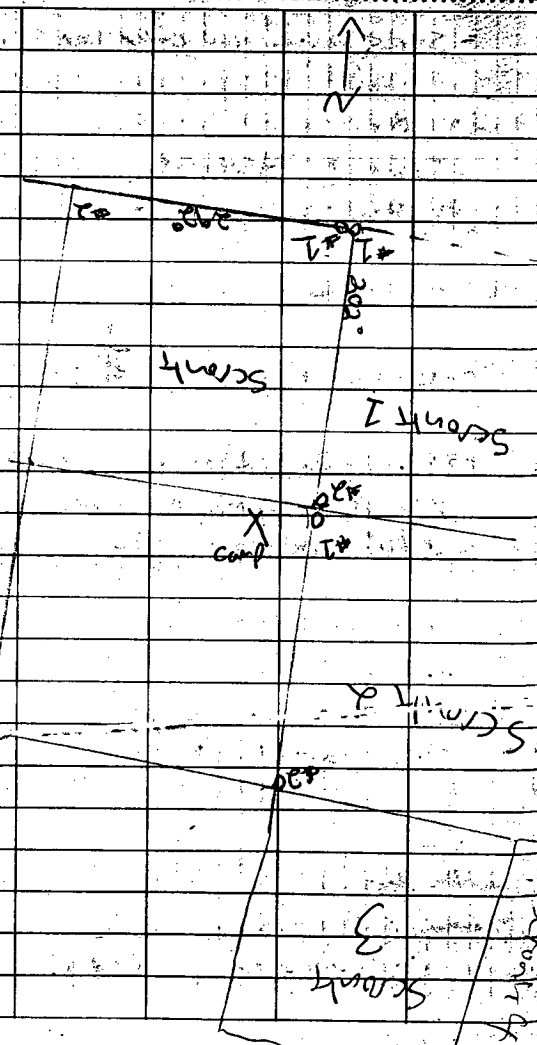
WEATHER



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DATE..... PAGE.....

Aug 3. 90
 weather Romy
 Trance 5 cont.



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WEATHER.....



JOB.....

DATE..... PAGE.....

Section 1
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

Section 2
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

Section 3
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

Section 4
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

Post #1
 No 1
 Section 1
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

Post #2
 No 2
 Section 2
 1948
 S. Elmer
 Aug 3
 1948
 G. C. Clark

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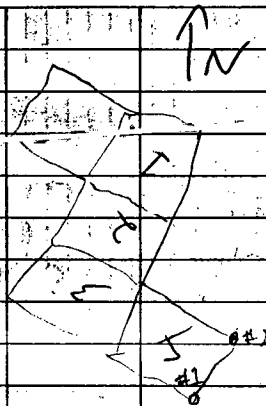
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JOB

DATE

PAGE



JOB

DATE

PAGE

Scraps H

No 1

Scraps L

N

1500 L

Aug 3

1990

S. Ekert

G. Cabot

No 2

Scraps L

Aug 3

1990

S. Ekert

G. Cabot

- Sketched 4 chairs

- No samples taken. Walked up further and
ridge upon camp.

JOB.....

DATE..... PAGE.....

Aug 4 90

Weather Rain

Transect

- East of camp over lake
- Volcanics sampled for assay
- Talus slopes to small lake
- many ss veins, gty present.

JOB.....

DATE..... PAGE.....



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WEATHER.....



PARTY CHIEF.....

WEATHER.....

Aug 5, 90

Part cloudy

Traverse BU

#2 Dissected As, Py chloro-Bornite?
 Host rock: green to brown, fine grained silt
 to granites. Noddy weather to brown.
 Talc. 5-10% sulfides.

#4 Py vein: 2-3cm width. Host clay
 Many fractures appear to be in situ. d/c
 Py 20-30%

#5 Occurs in Rr, Py, As? adjacent to Py vein.
 2-3cm wide d/c. Sulfides 10-15%

#6 Grd DS, Py vein. 1 foot below. Any ass. Yellow stain
 3-4cm thick continuous to take 3-5m.
 d/c. Kartzle jointing.

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WEATHER.....



wade

JOB

DATE

PAGE

Comments

Many gtz veins w/ small quantities of As were located today. The area is steep so access was limited to gullies and grass covered ledges. Galena rich vein was discovered no. others were located in area. Host rock is fine grained sandst sst. Near contact of volcanics.

More volcanic samples are going to be taken. Fluid action seems to be plentiful due to gtz veining abundance possible primary or secondary mineralization. Veins (Galena) cut sandst. Many of the veins follows jointing patterns. The steep slopes will be investigated with rope and belay stations.

Aug 6 90

Weather clear

Traverse ✓

Notes:

- checked scrocks a

JOB

DATE

PAGE

SAMPLES

#1 P. r. F-10% . 20% gtz labels and also disseminated within rock. Host dark siltstone. Rusty in places. Rhy rich parts 2-3mm. Talus.

#2 P. r. As gtz pods 5-10% Dark siltstone to t. Talus (siltstone).

#30 High grade. 1% As min. Followed jointing. Muddled veins in area. 3mm to 1/2 in.

#4 Altered volcanic (ss). P. r. Trace As. Chalk. 5-10%. Rusty weathered zone within sandst. Talus.

The area above (above section) contact shows multiple veins in multiple directions. No preference to mineralization. Some copper. Significant quantity of As are dominated in places with the sulfur content. Veins size is only controlled by fracture size (in some areas) and when cross cutting occurs up to 12cm was observed. The area is topographically steep and ropes are needed for further investigation to occur.

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NW
wade

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WEATHER

NW
wade

JOB

DATE

PAGE

Aug 7 90

Quinn / Foggy

Notes: - Valley traverse. Fog kept us to observe valley talus and soil creep.

- No sample taken. No new ^{40}Ar veins was found.

Aug 8 90

Clear to partly cloudy
Traverse W

Notes: - valley contained chert talus. Sandstone taken at rd
As vein. Mafic intrusion
- Talus slope was traversed. Chert weathered easily
and shale pebbles within to orange iron altered.



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WEATHER.....

JOB

DATE

PAGE

- Talus slope around granitoid body contained orthoclase - calcite veins.

- pods of calcite up to 0.5m were found in talus.
- no observable mineralization occurs. No sample was taken.

- As vein was not observed in talus.
- Wolfsonite appeared to become more prevalent moving towards center of pluton. No other mineralization was observed.
- chert talus appears to be clean.

- Talus

- Lake

- contact around lake showed unaltered orthoclase + mica + py mineralization within the granitoid body.

Aug 9 90

Cloudy rain (dust)

Traverse W

- Ridge to N of camp. Invisibility was high along ridge.
- Contact between sandstone & granite showed multiple directional quartz veins. no observable mineralization.

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WEATHER.....



JOB.....

DATE..... PAGE.....

- Exp. rock dark, sediments were observed.
up to 1 1/2% water content

- As vein 10-15 cm in width Talus small of c
was exposed < 2 cm. As qty, green alteration present.
70% - As (H₂O). Ratty weather. Found at slope assumed to
be within area.

- Talus slope in valley to SW of ridge was inspected.
- Pyrite within dark argillaceous sediment was found for
microanalysis.
- Granitoid was observed for microanalysis.
Minor veins in gty of river bed was found.

Aug 10 90

Chalk

- Traverse W

SAMPLES

WS. Altered granitoid; brownish/rust weathered.
found.
Wolf + Chalk gty on H₂O

Vein of quartz 1 cm thick. Qty abundant 25%.

Chalk & 2%

Talus.



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WEATHER.....

JOB.....

DATE..... PAGE.....

- Talus slopes were prospected. Minor for As veins
was found. Cassidolite sample? was taken

- Minor wolframite + Chalk was sampled on relation
~~to the talus slope.~~

Aug 11 90

Clear

Traverse W

- Minor wolframite + Chalk sample of granite.
- Veins of wolframite throughout.

Aug 12 90

Clear to P. Cloudy.

Traverse X

Notes:

- Minor green fibrous mineral was collected
at top of mountain to south. Minor.

SAMPLES #2 dark similar to show Talus
Multiple veins gty. No soft veins.
0.4% to 5%



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JOB.....

DATE..... PAGE.....

Aug 15 90

Clear

Notes

- Helicopter pickup approx. 1130.
- went to Mac Pass then drove to Ross River.
- Payments ultramorph bill
- Went to F. in Lake

Aug 16 90

Clear

Notes

- Administration: - Received 2 chains
- Shipment of Rocks to Whitehorse
 - phoned Midway
 - phoned Rock Analyst to confirm our account

Traveled to Area #3. Logan mtns. 105 H 5
Little Hyland River Area

Aug 17 90

cloudy

Traverse E

Notes:

Went over with more detail possible target



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WEATHER.....

JOB.....

DATE..... PAGE.....

areas. There were isolated using map, location and Geology maps. A 1:50000 map will be used to plot our traverses. It will show traverse line and sample collection positions. Detailed (smaller scaled) maps are not being used in this area as they were in Areas 1 & 2.

Traverse to east of camp along L. Hyland to follow and map anomaly.

Samples

#2 matrix red weathering pinkish. presence of green to green patches throughout.

#4 Altered granite / gneiss. Part of vein in zone. Eudialyte crystals 45% total. Talus mostly scattered. Very yellow weathered. Irradiant blue in. also present along alteration surfaces.

#5 Dark fibrous to columnar mineral veins in quartzite. ^{veins} direction talus veins of other type also prevalent. Many dark mineral abs. ^{absent} along what appears to be shear or fault planes.

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JOB.....

DATE.....

PAGE.....

#1 - 5-10 Zn disseminated. Coarsest to Quartzite.
 Talus - badly weathered. Micaceous alteration

Aug 13 90

Clear

Traverse 2 (cont)

- Walked edge to East from North access

- Two samples taken

* Q1: 100% to coarsest Zn of mostly zone of
 pyrite (not sampled); not predominate mineralization
 in area.

- Went mineralized to minor extent < 1% locally.

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JOB.....

DATE.....

PAGE.....

Aug 14 90

Traverse 2 (cont)

Clear

SAMPLES

Z15 - 5' Beryl siltstone and white ass with quartz
 weathering. No visible sulfides. Veinlets from 0.5mm
 to 1cm. 30-35% or more.

Z16 - siltstone, black. Veinlet 0.5mm - 1cm in width
 of quartz. Qtz abundant. Contact between Z15
 and Z16

Z17 - AS vein. Mn/Zn. Random orientation
 Qtz silt to feldspar. Light beryl. Talus. Green
 ass mineral chlorite. Veins 90% Zn

X18 - AS vein 3m wide. Talus Zn/As 20% Zn
 10% Green Mineral. Part bedrock Mn silt

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JOB.....

DATE..... PAGE.....

#6 Qtz vein containing py + dark fibrous. pg 410b

Talus yellow to rusty weathering.

Aug 18

Cloudy

Traverse 7

NOTES:

- Qtz veining ass w/ green argillite showed mineralization. Minor Py was found within the Qtz veins. Creek sample was observed.
- predominant rock type: phyllite argillite.
- Qtz veining of varying sizes were observed.
- sampled Qtz vein in place.
- checked stream rocks along first traverse line. West then South to east.
- Qtz veins w/ minor Galena were found near camp #1.
- Py rich Qtz vein was found in valley floor of camp #1.

JOB.....

DATE..... PAGE.....

Aug 19

Rain/Cloudy

Traverse 7

- brown to rusty fine grained argillite locality. Some segregation of Qtz. Py vein abundant Qtz may have Galena Talus.

- visible will think of last.

Aug 20

Partly Cloudy

- moved camp southwest
- mainly cover, checked creek for boulders samples
- abundant Qtz veining with stream boulders.
- no samples
- large blueberry anomaly was sampled.

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NW
wadeNW
wade

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DATE..... PAGE.....

Aug 21

Rainy

- investigation ab mag high.

Z12

- qtz vein, no visible mineralization.

talus

Z13

- coarse grained sst w/ py vein 1/2"

talus

Z17

- talus

- retn qtz conglomerate w/ py (1%)

- abundant in area.

within mag high area

Z20

- 2" qtz vein w/ 2-3% sulfides weathered.

JOB.....

DATE..... PAGE.....

Aug 22

overcast/rainy

- mt. view of camp investigated

- abundant qtz vein no found, barren

Z22

- py in grey green phyllite

- talus

- 1/4" thick vein

Z26

- talus

- qtz veins + ST: py po disseminated

- interbedded with sst and slates

Z28

- 3" qtz vein in sst

- qtz vein as abundant up to 20cm in width



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DATE..... PAGE.....

Aug 23

Rain + fog.

- Investigate a mag high North and east of camp.

Z30

- gly level for up to 39,000

- trace of sulfides

Aug 24

Rain

- abundant gly veinings

- slates to phyllites w/ some red conglomerates

- no samples taken

Aug 25

- Returned to Bahanni Camp food

- Drank a beer in the truck!

Aug 26

- Returned to Watson Lake Hwy onto Dawson Creek.



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DATE Oct 20 PAGE 1.06

- Map Fig 1

- Well field development 61-62
for industrial site

- needs 1 Mag of day
induced infiltration in pressure

→ conjunctive development

very low yield water of protection

- Refer to cross section geom geology.

valley \perp to river \circ w/ river \perp to old
river.

Channel

two gravel sections

dual aquifer system with aquiclude
bnds.

Hydraulic behavior during pump testing.

- openness or closedness?

- measurement of the level very accurate
recorders

• TE site

Top: 1 in the level

Aug 27/10

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AREA #1 Emerald Lk. Area
Map 105 0-12
Center of grid is ref 750490 (UTM Grid)

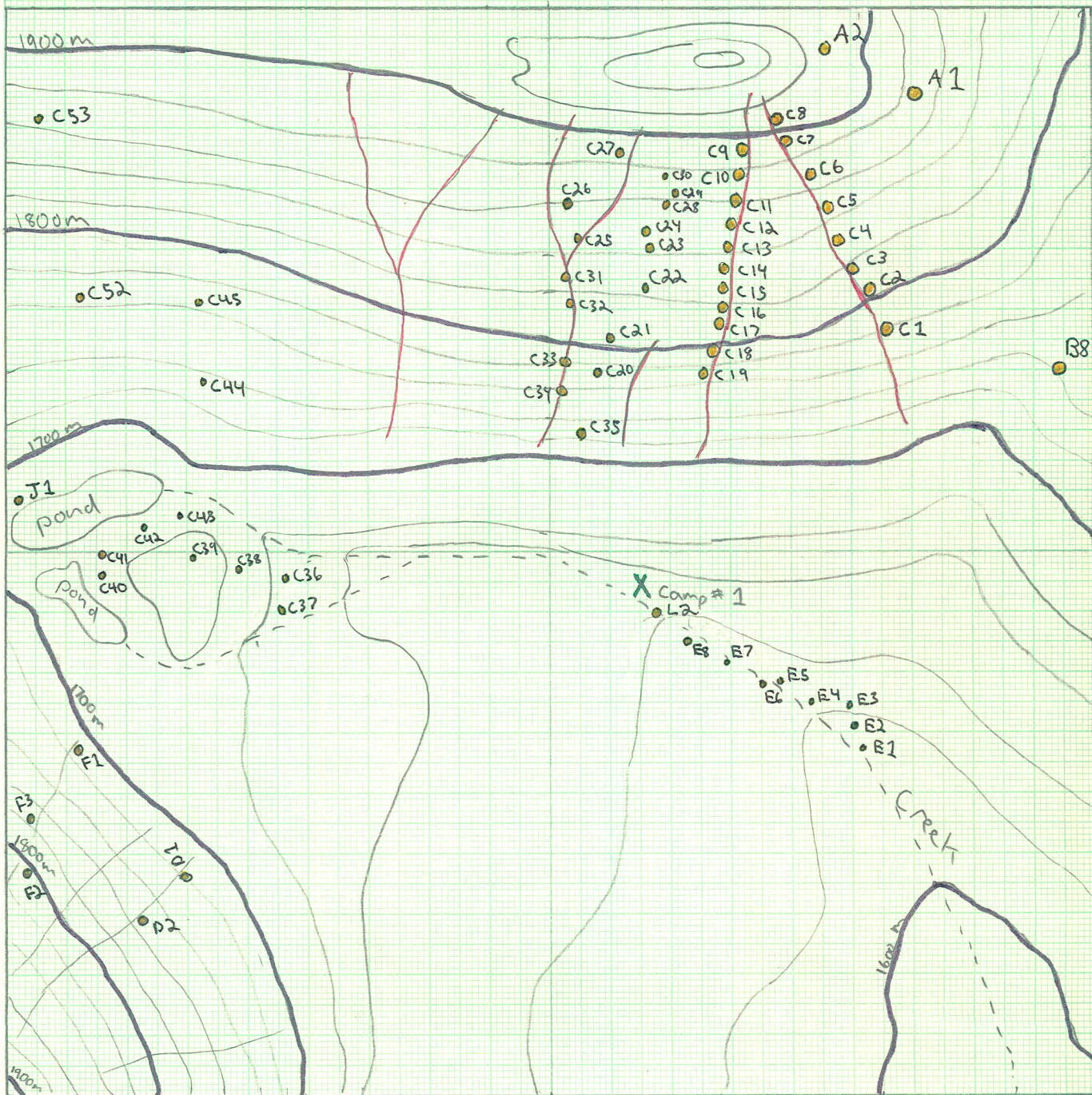


~ 500 m

C.I. = 20 m

- rock sample
- ravine

AREA #1
Map 105 0-12
Center is grid ref 755495 (UTM Grid)

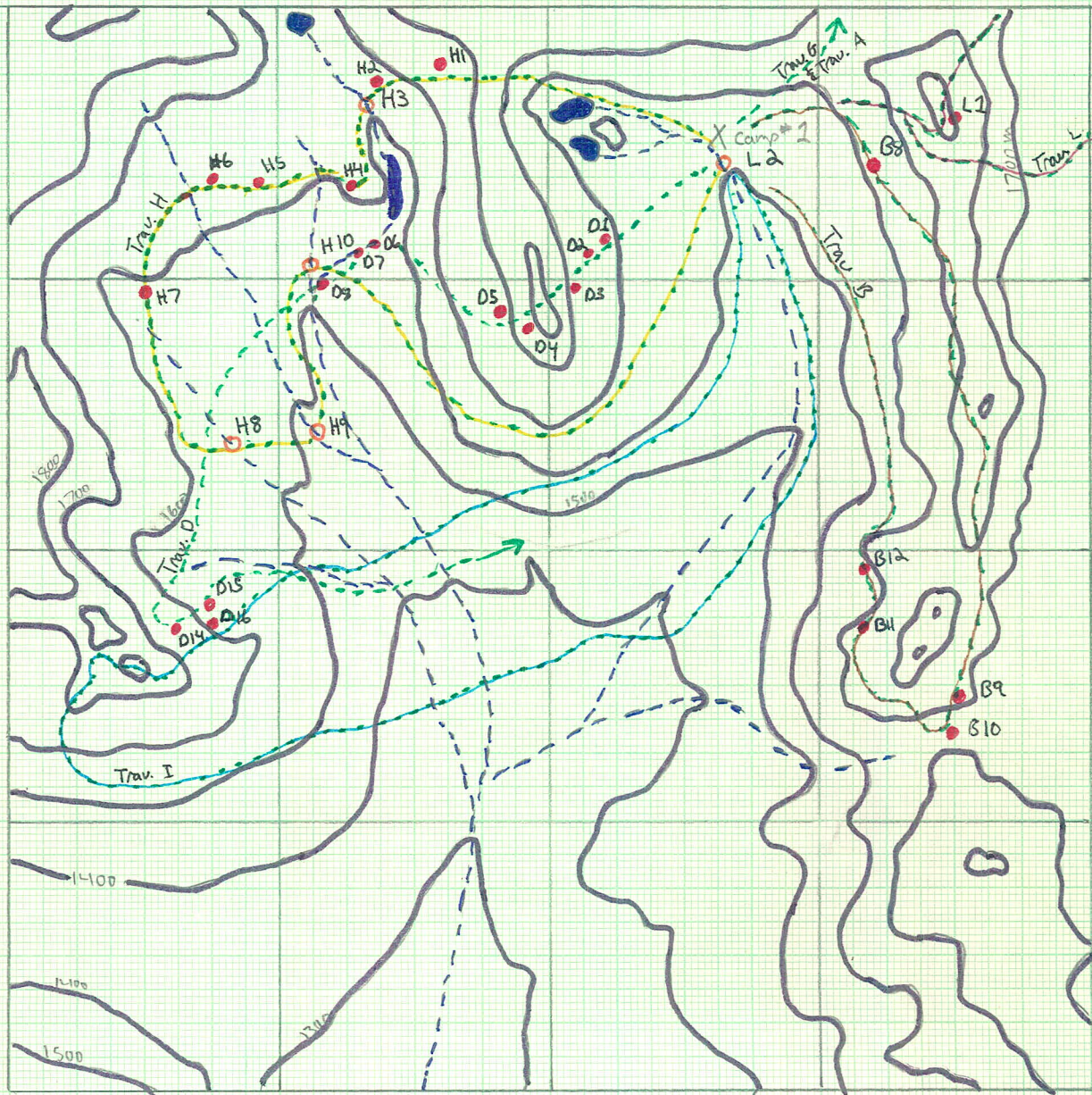


← 1000 meters →






C.I. = 20 m

- rock sample
- ravine

Camp # 1
Maps 1050 11 and 12
center is grid ref 750480 (UTM Grid)



1 KM

-  Stream
-  pond
-  Stream Silt Sample
-  rock sample
-  Traverse routes

(1)

Rock Sample Description Area #2 Emerald Mt. Area

TRaverse Location	Sample #	Description
N	1	silicious pelite, veinlets of pi up to 0.5cm, 65% along bedding planes, black
	2	Volcanic, leucocratic, large zoned plug, phreosiphon up to 1cm across, 1-2% silicious, dissem. from talus
	3	volcanic leucocratic, rounded plug, K feldspar
	4	Silicic Sed. w 2-4% of white v veins. A case ~ 5cm of similar rock, from olc
	5	stream silt sample
	6	Silicious pelite, 10-15% py, trace as, black
	7	Solid chert ~ 5% pyroclastic dissem from talus
	8	cherty banded host, 5-10% py, green alteration around py, disseminated sulfides
	9	Medium Gray silicic host rock, ~ 10-15% pyrite & pyrrhotite dissem & v veins, large iron ls, from olc
	10	1" thick pure arsenic in olc. High grade sample, siliceous host rock
N	1	Volcanic sulfides
	2	Talus, As vein, 1-2cm, Agass.
	3	olc, As vein, 1-2cm, continuous for 2m. Dip 60° Dip direction 120°. Abundant talus. Rusty yellow stain, Agass.
	4	olc, As vein, sampled across. Fine grained, very silicious to gangue
	5	As rich sample. Fine grained silicious host rock. 0.5-1cm multiple py + volcanic veins + dykes with As.
	6	olc vein ~ 2" wide visible py, pyrrhotite, disseminated + a 1" thick sulfide rich vein directly above. In olc
O	1	Talus. Bl. fine grained pelitic, vein like w py, as up to 15%
	8	A light silicic host rock with small veins of sulfides ~ 2-3% abundant in talus
	9	Black to D. green columnar - acicular mineral in py vein (with?) talus, abundant
	1	as, py up to 30% and disseminated throughout. olc, 2cm thick faceted for 1m
O	2	Ag vein, arsenic, pi? up to 15% as, 2-3cm wide, arsenic in silicic, red to black, 3m
	3	As vein, 3cm wide up to 15% as. And pi followed bedding plane, appropriate N.
	4	Large vein ~ 1/2 foot thick, weathered abundant pyrite & pyrrhotite, 80-90% greenish vein host

(2)

Rock Sample Description

Traverse location	Sample #	Description
Q	5	1" gte vein ~ 50% arseno in ore.
	6	a gte arseno vein, varies from 1" to 1/2", approx 50% arseno locally.
	7	1/2" gte vein. Traces of arseno. 5% white mica (unit?).
P	1	bedded det., interbedded sulphides - up to 1/2" thick. Disseminated with bands. Py 40%, Ar 5%, As 5%.
	2	up strike from 1. As 5% det. py 40%. Along bedding it seems zone became richer and amount of 5-10% Altho. rate in.
	3	a 1/2" arseno (70%) pyrite 5% and pyrite 5%. Abundant det. of pyrite, pyrite and arseno in the vein.
	4	3/4" arseno - gte vein just above cap (arseno up to 3/8" thick)
Q	1	highly weathered ore with small particles of pyrite & pyrite veins also light colored siliceous host.
	2	1 1/2" arseno vein in fault.
	3	Coarse st to quartzite. 5-10% sulphides. weathered mass 5-10% - veins.
	4	coarse st interbedded w/ det. 30% Ar. 5% Py. 60% orange weathered talus.
	5	siltstone.
	6	siltstone.
P	1	in ore a 2" zone of arseno + associated green mineral, up to 1" pure arseno.
	8	disseminated sulphides. Fine grained st - quartzite. Near wide - 1/2" thickly gte along joint planes.
	1	coarse grained st to quartzite. with 30% Ar. 5% Py. vein 30cm wide. Tracing N.S. followed for 2m.
R	2	a 1/2" wide "vein?" rusty weathered, no fresh surface seen.
	3	4" wide arseno (70%) gte & some host rock.
	4	3" wide arseno + galena (~5%) & possibly traces of sphalerite.
	5	4" wide arseno 80% gte 20%
	6	4" to 4 1/2" wide 90% arseno well developed crystal faces.
S	1	up to 7% pyrite in arseno & in veins in det. Fine grained host det. ore.
	2	2 1/2" gte vein with ~20% pyrite and 20% arseno in a siliceous matrix.

ROCK SAMPLE DESCRIPTION			
TRAVERSE LOCATION	SAMPLE #	DESCRIPTION	
T	1	2" gte vein in the "porphyritic unit" with up to arsenic in larger "blebs" in talus. (porphyritic unit) 10% arsenic	
	2	High grade sample 3/8" arsenic layer in a 1/2" gte vein. In talus. (porphyritic unit)	
	3	2" thick arsenic gte vein in talus in places it is 2" or more arsenic in other gte veins to 10%. (porphyritic unit)	
U	1	Airced and rusty weathered unit in the light colored meta-gte siltstone in o/c.	
	2	Disseminated arsenic, pyrite, chalcocite? host rock green to brown fine grained st. to quartzite. Rusty weather to be talus small samples.	
	3	Bedded siliceous siltstone gray-green color. Part of pyrite 2-20% scattered in o/c.	
	4	Pir vein 2-3cm in width. Chlorite. Same structure as U-30-20-20.	
	5	Green vein material Pir, py, arsenic 2-3cm wide, o/c. 10-15% adjacent to py.	
	6	Pure white host 1/2" vein of about 50% arsenic. The arsenic also occurs in airced fine grained quartzite. The sample is a 5" x 5" chunk of white quartzite.	
	7	Light white host. A 2" gte vein with 50% arsenic. Plus siliceous matrix with disseminated arsenic. vein 1/2" cutting bedding in o/c.	
	8	Large gte vein up to 1 foot thick in places. gte vein is very abundant throughout the area. About 5% arsenic some dark. in o/c.	
	9	Gte ch. or vein. 1/2" gte. arsenic. yellow weathering. Siliceous host cut to talus 3m. cross cut veins. o/c. on road here.	
	V	1	Pir 2-3cm. 10-15% gte. blebs and also disseminated within rock. Dark siliceous. Rusty weathered. blebs 2-3mm. Talus.
		2	Pir 2-3cm. 10-15% gte. Dark siliceous. Rusty weathered.
3		Black siliceous rock with 1-2% disseminated pyrite. It appears to be a breccia. In some areas a spotted texture. In o/c.	
4		15% plus phenocrysts. Fine grained matrix with 5% + white arsenic. X-tal. 1/2" pyrite. Talus.	
5		in o/c. a vein of gte and pyrite (75%) 1/2" thick. (There is a 1/2" vein of arsenic about 3' above not sampled)	
6		1 1/2" gte vein in o/c. Matrix barren a trace of arsenic.	
7		1" gte vein with traces of arsenic. otherwise barren. in o/c.	
8		1/4" thick gte vein ~ 5% arsenic. A 1" thick arsenic vein below it (not sampled) and a 1/2" arsenic vein above it. o/c.	
9		3" vein ~ 70% gte 20% arsenic and 10% galena. Similar veins above. o/c.	
10		High grade. 1/2" vein. Ball and jointing. matrix veins in area. o/c. Rusty weathered. in talus of gte and green weathering material.	
11		Airced volcanic (greenish). Pyrite pyrite. 5-10% rusty weathered zone with dark talus.	

ROCK DESCRIPTIONS

TRAVELER LOCATIONS	SAMPLE #	DESCRIPTION
W	1	A thin iron tube - 1/2" dia - with 1/2" hole, in a dark matrix rock
	2	Thin near granite intrusion. Qtz - plg & f. - 2% area assemblage
	3	1/2" vein with traces of arsenic, barite
	4	Thin of 20-30% pure iron, approx 1/2" dia in the same gte as traces of arsenic
	5	Altered granitic brecciated rock features, with schistosity. Some vein work rem. trace of arsenic (5%) indicated
	6	1/2" vein of wulf. beside traces of malachite, iron tubes
	7	Thin, approx 1/2" diameter and traces of pyrite
	8	Siliceous rock, 2% pyrite plus natural mineral tubes
	9	Wulf. vein with 1/2" Chalcopyrite in place
X	1	Highly weathered, cherty rock with abundant small gte nodules, tubes
	2	
	3	Highly weathered, massive cherty gte rock w/ thin tubes
	4	
	5	Highly siliceous with small gte vein & chert nodules in place
	6	Similar to X5, in place but a few disseminated grains of malachite
	7	Basal in tube, of granular altered gte, some possibly of 2% of what might be wulf.
	8	A highly weathered conglomerate, near stream
	9	Silt
	10	Thin of iron-bearing gte - 2% malachite nodules
	11	A zone ~ 5m across with highly altered yellowish material in the long creek
	12	Altered light colored very soft (not cherty) with 2-3% very fine disseminated sulfide
	13	A large area of porous highly weathered & rusty conglomerate or breccia central trough with a "rusty material"
	14	Same as X13 but ~ 50' below surface, less porous

see reverse

TRANSVERSE

LOCATION

DESCRIPTION

TRANSVERSE	LOCATION	DESCRIPTION
x	15	Base fill stone. Qty. voids. ass. w/ dusty weathering. Non-bleedable Voids from 0.5mm to 1cm. 20-25% of rock
	16	Siltstone. Pale. pyric cement 0.5mm to 1cm. in and by. Qty. abundant. Contact betw 15/16
	17	As vein. Max 2cm. Random orientation. gts. act. to grade.
	18	Light beige. Talus. Green ass. mineral. As vein. 3cm wide. Talus. 70% AS 2% gts. 10% Green Mineral. Red bedrock. med. est.

AREA #2 LUNDALIN LITH AREA (1)		
TRAVERSE RECORD		
TRAVERSE	LOCATION	COMMENTS
M	10	Arseno veins, significant mineralization: py, pyr, as.
	1	TALUS: Moly found ass with veining possible source area mtn to NW of camp.
	23	Extensive gtz veining along talus slope NW of camp. Some mineralization: Moly, as, py. is ass with veining. Lack of gtz veining in talus across valley to east.
N	3	Arseno veining Followed for 2m. Dip into valley. Moved up section but no more veins were found.
	5	Pyrite rich ^{thin} sediments through out traverse area. Silicious to cherty host rock bedded up to 5m. 10-20% pyr locally.
	6	Qtz veins abundant containing traces of moly, pyrite & pyrrhotite.
	9	Abundant black-green columnar-acicular min in gtz veins (pos. wolframite?) in talus, also a light siliceous host rock with 2-3% sulfides in small ventlets abundant in talus.
O	4	As veining, gtz veining as well as arsenopyrite are abundant veins within 5m interval. Many veins are present on way up traverse approx 7-10 veins have been found all either ass with gtz mineralization or as only. Veins in size from less than 1cm. Some traceable lateriform.
	5	
6		
7		
	*	Talus slopes to SW. vein of 3m width. As & py within brecciated cherty host. 3 samples over 1cm were found. Investigated upper slopes for old evidence. Found large vein in place on mtn west of camp abundant arseno & a green-blue min associated. Also found a 1" thick gtz vein with arseno & a 1/2" arseno vein.
P	3	Concentrated pods of as found along strike of sulfide rich sp. approx 1m in width. Can be followed for 100's of meters to dist. talus.
	11	2m AS min in talus. just below sulfide rich zone. Includes gtz veining with ass. As, py also found. About 100m south of #3, a vein ~ 4" wide with arseno and the associated green mineral was found about 6 feet above this a 1/2" arseno vein was found. Also large veins of the green acicular-fibrous mineral found then below. Walked at the ridge to the north which has about 40% of shale & chert, the rest is mainly chert no or little sulfide.

AREA #2

(2)

TRANSVERSE RECORD

TRANSVERSE	LOCATION	COMMENTS
Q	1, 3, 4	Anomalous boulders in talus slopes. As vein 2cm-3cm width.
R	1	As vein 30-40cm. Structural complexities. Same as across vein. As 80% Py 15% Py ² . Other veins of As are within 1m. Green mineral within 10cm within 5m of As veins. Observed to veins at w. of g/g.
	2, 6	Multiple polymetallic veins. Laterally 6cm into talus. 5 veins follow bedding. Lateral (3-6) 10.8m apart in vein planes. 2 - highly mineralized 12cm width. As 80% Py 15% Py ² weathered. 3 - 12cm. As 70% Py 15% Py ² 4 - 10cm. As 90% Py 10% Py ² Silicate 6%? 5 - 15cm. As 80% Py 20% Py ² 6 - 20cm. As 90% Py 10% Py ²
S		A few mineralized boulders found in stream along valley south & west of camp. Nothing much.
	1, 2	area has abundant pyritic mineralization gte veins with traces of moly and arsenic.
T		Talus slopes investigated. Many As, Py veins were found. Few sampled. Calcite vein found near lake. Volcanics sampled many contained 1-2% Py.
U	4, 9	Abundant qtz veining through out. Fe ²⁺ contained up to 5% Py. Py ² pads / veins up to 3cm. Green mineralized vein. Galena / As / Py vein up to 3cm continuous for 3m. Calcite vein. As veins 1-2cm. Large iron ore vein. Appears to be above contact of igneous with sediments. High gte veins were encountered in the area.
V	6-9	Abundant qtz veining. Mineralized 2-3cm. Size 0.5cm - 3cm. Multiple directions all mineralized. Galena found in one vein. Qtz veining followed horizontal joints and also cross cut the infrastructure. Calcite veining was found in talus. Area needs ropes for detailed investigation.

TRAVELER	LOCATION	COMMENTS
1		As remains, also found 7 models ranging from 2-4 cm in width were discovered. Other collections found across the ground (N 40°) with 15% - 20% in the ground. Collection was abundant along upstream and middle.
X		Nothing exceptional, see field notes.

REPORT: V90-36225.G (COMPLETE)

REFERENCE INFO:

CLIENT: MR. SHANE EBERT
PROJECT: NONE GIVENSUBMITTED BY: S. EBERT
DATE PRINTED: 21-SEP-90

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 10g Gold - Fire Assay	228	5 PPB	Fire-Assay	Fire Assay AA
2	Ag Silver	228	0.2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu Copper	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb Lead	228	2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn Zinc	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
6	Mo Molybdenum	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
7	Ni Nickel	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
8	Co Cobalt	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
9	Cd Cadmium	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
10	Bi Bismuth	228	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
11	As Arsenic	228	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
12	Sb Antimony	228	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
13	Fe Iron	228	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
14	Mn Manganese	228	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
15	Te Tellurium	228	10 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
16	Ba Barium	228	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
17	Cr Chromium	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
18	V Vanadium	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
19	Sn Tin	228	20 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
20	W Tungsten	228	10 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
21	La Lanthanum	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
22	Al Aluminum	228	0.02 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
23	Mg Magnesium	228	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
24	Ca Calcium	228	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
25	Na Sodium	228	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
26	K Potassium	228	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
27	Sr Strontium	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
28	Y Yttrium	228	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma

REPORT: V90-36225.0 (COMPLETE)

CLIENT: MR. SHANE EBERT
PROJECT: NONE GIVEN

REFERENCE INFO:

SUBMITTED BY: S. EBERT
DATE PRINTED: 21-SEP-90

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
1 STREAM SEDIMENT,SILT	12	1 -80	12	POLYBAGS, SIEVE -80	12
R ROCK OR BED ROCK	216	2 -150	216	CRUSH,PULVERIZE -150	216

REMARKS: Assay of high Au, Ag, Cu, Pb and Zn to follow
on V90-36225.6.

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REPORT: V90-36225.D

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
T1 G7		141	28.1	114	472	232	7	50	19	2	<5	87
T1 G8		<5	0.7	80	30	37	2	9	7	<1	7	71
T1 G9		<5	1.0	330	38	1104	10	213	66	7	<5	420
T1 H3		<5	<0.2	67	26	55	<1	11	10	<1	<5	75
T1 H8		25	0.3	112	26	147	2	27	17	2	9	960
T1 H9		7	0.3	70	21	80	3	16	13	<1	<5	279
T1 H10		14	0.6	169	27	241	6	32	15	2	10	597
T1 L2		9	0.5	164	23	278	4	78	26	2	7	447
T1 M5		35	1.2	143	62	71	19	38	22	<1	8	432
T1 Q5		8	1.2	201	33	572	8	265	31	4	<5	108
T1 Q6		15	2.2	216	33	685	13	127	27	3	<5	69
T1 X9		13	2.1	176	22	214	11	45	9	<1	<5	95
R2 A1		<5	9.4	55	482	25	2	6	2	<1	<5	20
R2 A2		24	>50.0	>20000	355	447	<1	38	8	<1	78	<5
R2 A3		120	>50.0	518	1810	28	2	11	4	27	9	>2000
R2 A4		1420	11.5	147	320	25	<1	20	124	<1	41	>2000
R2 A5		2241	4.0	24	269	24	<1	17	47	<1	911	>2000
R2 A6		11	4.5	98	126	98	3	9	3	1	19	828
R2 A7		<5	13.6	219	149	198	3	41	7	1	<5	322
R2 B8		7	7.3	169	147	397	3	25	3	<1	8	315
R2 B9		<5	10.8	42	128	26	1	19	3	<1	<5	191
R2 B10		<5	8.2	12	122	325	2	17	14	2	<5	293
R2 B11		9	33.5	55	377	26	3	12	1	1	<5	200
R2 B12		<5	4.3	29	46	109	2	43	23	<1	5	50
R2 C1		9	5.3	89	65	122	4	167	19	<1	<5	106
R2 C2		<5	8.7	41	137	72	4	27	9	<1	<5	168
R2 C3		<5	5.8	43	55	61	1	23	6	<1	<5	77
R2 C4		520	3.7	202	78	64	2	17	10	2	7	1366
R2 C5		45	2.3	246	53	16	2	8	4	<1	10	236
R2 C6		<5	5.2	2985	123	137	2	11	11	<1	<5	541
R2 C7		269	8.4	3041	47	31	5	9	5	<1	145	594
R2 C8		213	7.2	1110	83	8	4	7	5	4	69	>2000
R2 C9		<5	1.9	92	50	68	<1	15	10	<1	<5	886
R2 C10		<5	1.6	154	36	70	1	6	4	<1	<5	322
R2 C11		12	1.9	14	71	42	4	9	11	4	16	>2000
R2 C12		<5	2.2	24	189	34	1	4	3	<1	<5	195
R2 C13		1256	3.8	12	158	14	3	47	105	100	444	>2000
R2 C14		7	2.6	211	55	63	2	21	16	<1	6	392
R2 C15		673	23.3	15551	40	115	6	101	69	<1	11	349
R2 C16		1993	2.7	61	68	19	1	9	61	58	827	>2000

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 18

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
T1 G7		60	7.67	0.06	14	417	59	137	<20	<10	18	3.24
T1 G8		<5	1.76	0.03	<10	188	12	35	<20	<10	17	2.08
T1 G9		15	4.73	0.33	<10	518	36	75	<20	<10	32	4.26
T1 H3		5	2.79	0.04	<10	299	17	44	<20	<10	32	3.21
T1 H8		10	2.89	0.04	<10	326	19	36	<20	<10	27	3.63
T1 H9		<5	2.33	0.03	<10	352	18	41	<20	<10	27	3.80
T1 H10		<5	3.16	0.04	<10	421	23	50	<20	<10	22	3.13
T1 L2		7	3.63	0.11	<10	556	26	62	<20	<10	25	3.83
T1 M5		20	6.93	0.17	12	370	47	102	<20	<10	19	2.18
T1 Q5		10	6.30	0.47	<10	482	35	76	<20	<10	25	1.92
T1 Q6		14	>10.00	0.06	16	504	58	147	<20	<10	22	2.00
T1 X9		7	7.56	0.03	<10	581	56	136	<20	<10	17	2.82
R2 A1		32	0.64	0.01	<10	32	195	8	<20	<10	1	0.33
R2 A2		24	2.41	0.03	<10	12	58	97	<20	<10	3	3.18
R2 A3		241	3.34	<0.01	<10	149	165	5	<20	<10	12	1.28
R2 A4		253	3.78	<0.01	<10	<5	53	<1	<20	<10	<1	0.14
R2 A5		352	4.06	<0.01	<10	<5	29	<1	<20	<10	<1	0.06
R2 A6		23	2.16	0.01	<10	103	67	51	<20	<10	16	0.86
R2 A7		12	4.29	0.08	<10	100	158	42	<20	<10	4	1.68
R2 B8		15	8.46	0.09	12	29	26	30	<20	<10	<1	1.27
R2 B9		10	2.35	0.01	<10	95	178	16	<20	<10	12	
R2 B10		9	5.10	0.08	<10	459	48	68	<20	<10	13	3.13
R2 B11		21	1.83	<0.01	<10	62	212	15	<20	<10	2	0.14
R2 B12		12	6.94	0.09	<10	246	38	115	<20	<10	12	6.09
R2 C1		12	4.73	0.12	<10	38	90	30	<20	<10	10	1.27
R2 C2		15	3.16	0.02	<10	293	140	70	<20	<10	17	3.20
R2 C3		<5	3.55	0.06	<10	590	141	63	<20	<10	12	3.07
R2 C4		8	4.67	0.04	<10	403	125	61	<20	<10	13	3.63
R2 C5		<5	1.08	0.01	<10	59	251	12	<20	<10	54	0.51
R2 C6		<5	6.15	0.05	<10	290	131	77	<20	<10	44	3.62
R2 C7		38	3.47	0.02	<10	158	129	35	<20	<10	15	1.44
R2 C8		39	0.97	<0.01	<10	12	279	<1	<20	<10	<1	0.03
R2 C9		7	8.70	0.13	10	100	67	63	<20	10	10	4.02
R2 C10		5	2.58	0.03	<10	68	199	16	<20	<10	39	1.23
R2 C11		10	4.58	0.04	<10	76	99	28	<20	<10	20	2.13
R2 C12		6	1.06	0.02	<10	78	173	8	<20	<10	20	0.62
R2 C13		67	>10.00	0.03	20	27	133	<1	<20	<10	14	0.74
R2 C14		9	5.59	0.04	<10	733	117	125	<20	<10	12	3.78
R2 C15		10	>10.00	0.03	28	32	94	76	<20	<10	15	1.81
R2 C16		39	5.59	0.02	<10	49	182	<1	<20	<10	30	0.33

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 10

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
T1 G7		0.76	0.32	<0.05	0.44	48	8
T1 G8		0.53	0.84	<0.05	0.18	75	6
T1 G9		1.00	0.88	0.06	0.35	105	27
T1 H3		0.80	1.15	0.05	0.26	126	9
T1 H8		0.74	1.30	0.13	0.26	154	8
T1 H9		0.71	1.14	0.07	0.25	168	6
T1 H10		0.65	0.51	0.05	0.19	53	8
T1 I2		0.89	0.81	0.06	0.30	101	11
T1 M5		0.92	0.21	<0.05	0.43	21	14
T1 Q5		0.59	0.25	<0.05	0.28	46	23
T1 Q6		0.73	0.14	<0.05	0.23	84	16
T1 X9		0.79	0.11	<0.05	0.40	93	9
R2 A1		0.09	<0.05	<0.05	0.07	6	<1
R2 A2		1.20	<0.05	<0.05	0.29	4	3
R2 A3		0.19	<0.05	<0.05	0.67	13	2
R2 A4		<0.05	<0.05	<0.05	0.06	<1	3
R2 A5		<0.05	<0.05	<0.05	<0.05	<1	3
R2 A6		0.07	<0.05	<0.05	0.11	3	6
R2 A7		0.67	0.40	0.05	0.37	56	8
R2 B8		1.90	0.20	<0.05	<0.05	4	3
R2 B9		0.64	<0.05	<0.05	0.13	10	1
R2 B10		2.24	0.93	0.05	0.10	30	15
R2 B11		<0.05	<0.05	<0.05	0.08	24	2
R2 B12		3.03	3.88	0.30	0.28	135	14
R2 C1		0.63	0.19	<0.05	0.28	7	9
R2 C2		1.13	0.10	<0.05	0.74	31	4
R2 C3		1.24	0.11	<0.05	0.80	19	5
R2 C4		1.23	0.97	0.28	1.21	75	8
R2 C5		0.29	0.07	<0.05	0.07	29	4
R2 C6		1.83	1.10	0.18	0.69	71	10
R2 C7		0.56	1.03	0.08	0.23	40	9
R2 C8		<0.05	0.08	<0.05	<0.05	6	1
R2 C9		2.09	0.35	<0.05	0.57	8	5
R2 C10		0.33	0.43	<0.05	0.27	9	7
R2 C11		0.98	2.59	0.10	0.33	75	7
R2 C12		0.11	0.77	<0.05	0.22	12	4
R2 C13		0.11	0.45	<0.05	0.27	13	6
R2 C14		1.79	1.85	0.33	0.97	111	7
R2 C15		0.99	0.65	0.11	0.44	30	5
R2 C16		<0.05	0.52	<0.05	0.16	16	4

REPORT: V90-36225.C

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 C17		3849	2.0	41	38	17	2	17	175	177	1313	>2000
R2 C18		50	1.3	14	49	5	6	6	6	7	20	>2000
R2 C19		6073	1.3	231	36	40	1	12	1336	<1	>2000	>2000
R2 C20		1276	2.0	8	31	16	2	9	85	27	203	>2000
R2 C21		1365	<0.2	<1	22	18	7	63	468	170	277	>2000
R2 C22		22	1.4	5	24	6	<1	6	5	2	11	1692
R2 C23		15	1.8	106	22	38	3	14	9	<1	8	717
R2 C24		<5	1.0	9	39	43	2	13	7	<1	<5	153
R2 C25		29	1.0	167	19	17	1	12	67	10	70	>2000
R2 C26		19	1.5	18	37	30	1	7	26	4	49	>2000
R2 C27		<5	1.1	225	27	40	1	10	10	<1	<5	92
R2 C28		273	3.2	71	19	8	1	51	73	96	1068	>2000
R2 C29		>10000	4.5	6	169	161	<1	207	1223	134	>2000	>2000
R2 C30		185	1.9	28	18	50	1	26	88	10	74	>2000
R2 C31		53	1.1	16	17	22	1	10	11	1	16	1706
R2 C32		30	1.6	58	39	73	1	15	19	4	23	>2000
R2 C33		12	1.7	9	23	44	<1	15	8	<1	<5	145
R2 C34		12	0.9	5	19	15	<1	8	4	<1	<5	383
R2 C35		84	2.0	539	18	41	5	23	10	<1	<5	85
R2 C36		<5	0.4	4	16	10	1	2	3	<1	<5	161
R2 C37		29	0.8	9	33	18	<1	4	2	<1	<5	73
R2 C38		49	2.0	21	21	21	2	9	35	15	<5	>2000
R2 C39		10	0.9	6	27	7	2	4	1	<1	<5	118
R2 C40		<5	0.8	6	17	35	<1	3	3	<1	<5	125
R2 C41		<5	1.0	34	28	24	<1	3	1	<1	<5	702
R2 C42		298	0.3	135	27	35	<1	6	10	<1	<5	521
R2 C43		54	<0.2	13	37	24	1	7	17	3	<5	1998
R2 C44		12	<0.2	10	26	28	2	3	5	<1	<5	106
R2 C45		97	3.1	913	21	51	1	8	12	<1	8	436
R2 C46		17	0.8	147	16	96	<1	18	18	<1	<5	1087
R2 C47		12	4.6	203	25	149	10	44	5	1	<5	179
R2 C48		10	1.0	19	35	32	6	7	<1	<1	<5	388
R2 C49		35	1.4	5	18	54	7	120	227	12	9	>2000
R2 C50		176	1.1	3	14	23	1	122	1060	47	<5	>2000
R2 C51		31	4.2	78	29	31	5	11	12	1	<5	1070
R2 C52		110	8.6	3126	28	141	1	7	16	2	27	1854
R2 C53		11	0.7	1016	29	47	<1	8	14	<1	<5	161
R2 D1		54	4.7	413	28	139	3	50	22	<1	<5	268
R2 D2		22	2.1	108	19	192	1	62	10	<1	<5	50
R2 D3		<5	3.4	109	35	40	12	48	19	<1	<5	46

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 28

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 C17		201	2.95	<0.01	<10	9	70	<1	<20	<10	1	0.20
R2 C18		8	0.79	<0.01	<10	12	213	<1	<20	<10	11	0.16
R2 C19		66	3.14	0.01	<10	36	44	<1	<20	<10	13	1.08
R2 C20		17	3.60	0.02	<10	78	222	<1	<20	<10	8	1.11
R2 C21		143	2.30	0.01	<10	15	84	<1	<20	<10	<1	0.76
R2 C22		<5	0.69	<0.01	<10	11	261	3	<20	<10	2	0.21
R2 C23		5	6.60	0.05	11	282	98	81	<20	<10	9	2.73
R2 C24		<5	4.68	0.04	<10	44	150	41	<20	<10	61	1.87
R2 C25		8	2.26	0.01	<10	113	104	8	<20	<10	3	1.71
R2 C26		<5	1.47	0.01	<10	45	192	6	<20	<10	8	0.63
R2 C27		5	3.57	0.03	<10	391	104	58	<20	<10	31	3.12
R2 C28		89	>10.00	0.02	30	27	134	<1	<20	<10	25	0.55
R2 C29		150	2.75	<0.01	<10	10	86	<1	<20	<10	<1	0.35
R2 C30		7	7.50	0.06	<10	210	144	52	<20	<10	7	2.77
R2 C31		<5	3.16	0.02	<10	152	138	35	<20	<10	6	1.59
R2 C32		9	6.26	0.05	10	426	89	88	<20	<10	15	4.62
R2 C33		7	6.45	0.05	10	416	112	93	<20	<10	11	4.17
R2 C34		<5	1.28	0.01	<10	60	290	13	<20	<10	1	0.64
R2 C35		<5	4.79	0.04	<10	306	157	82	<20	<10	8	1.71
R2 C36		<5	0.50	<0.01	<10	44	54	4	<20	<10	12	0.44
R2 C37		<5	0.96	0.01	<10	81	157	8	<20	<10	21	0.86
R2 C38		15	4.21	0.02	<10	164	196	2	<20	<10	14	1.45
R2 C39		<5	0.58	<0.01	<10	19	149	2	<20	<10	14	0.36
R2 C40		<5	2.47	0.02	<10	137	121	21	<20	<10	16	1.84
R2 C41		<5	2.30	0.02	<10	68	121	20	<20	<10	19	1.50
R2 C42		<5	2.06	0.02	<10	94	171	15	<20	<10	43	1.08
R2 C43		6	1.41	0.02	<10	76	153	2	<20	<10	48	0.41
R2 C44		<5	2.68	0.02	<10	244	115	32	<20	<10	705	2.33
R2 C45		6	4.90	0.03	<10	146	102	47	<20	<10	24	3.04
R2 C46		<5	1.70	0.03	<10	130	124	15	<20	<10	23	1.28
R2 C47		6	1.75	<0.01	<10	251	219	110	<20	<10	17	0.79
R2 C48		<5	0.98	<0.01	<10	1250	76	9	<20	<10	25	0.80
R2 C49		16	3.86	0.02	<10	279	119	241	<20	<10	14	2.53
R2 C50		15	3.50	<0.01	12	125	41	37	<20	<10	5	0.40
R2 C51		12	4.47	<0.01	<10	85	95	44	<20	<10	11	0.47
R2 C52		13	4.61	0.02	<10	111	66	19	<20	<10	23	2.04
R2 C53		7	3.15	0.06	<10	219	61	33	<20	<10	35	1.79
R2 D1		13	>10.00	0.03	15	38	105	87	<20	<10	8	3.98
R2 D2		<5	6.46	0.03	<10	215	130	103	<20	<10	16	4.48
R2 D3		5	4.14	0.03	<10	69	86	64	<20	<10	14	2.66

REPORT: V90 36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 20

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 C17		<0.05	0.57	<0.05	0.10	28	6
R2 C18		<0.05	0.05	<0.05	<0.05	5	2
R2 C19		0.48	0.42	0.06	0.32	47	6
R2 C20		0.53	0.39	0.05	0.24	31	3
R2 C21		0.36	0.06	<0.05	0.09	4	4
R2 C22		0.09	0.13	<0.05	<0.05	10	3
R2 C23		2.20	1.84	<0.05	0.63	17	10
R2 C24		1.13	0.17	<0.05	0.21	4	9
R2 C25		0.61	0.79	0.16	0.11	57	5
R2 C26		0.33	0.11	<0.05	0.10	26	3
R2 C27		1.10	1.60	0.30	0.80	72	8
R2 C28		0.09	0.22	<0.05	0.18	43	8
R2 C29		<0.05	0.07	<0.05	0.17	12	4
R2 C30		1.68	1.62	<0.05	0.41	26	10
R2 C31		0.97	1.36	0.07	0.32	21	5
R2 C32		1.96	2.08	0.38	0.75	136	5
R2 C33		2.22	2.80	0.20	0.99	138	9
R2 C34		0.33	0.16	<0.05	0.10	48	<1
R2 C35		1.50	0.69	0.10	0.99	28	6
R2 C36		0.11	0.10	<0.05	0.16	10	4
R2 C37		0.19	0.30	0.11	0.29	35	5
R2 C38		0.53	0.27	0.09	0.33	28	5
R2 C39		<0.05	<0.05	0.06	0.30	9	1
R2 C40		0.66	0.44	<0.05	0.25	13	6
R2 C41		0.60	0.89	0.06	0.18	22	10
R2 C42		0.28	0.49	<0.05	0.30	15	7
R2 C43		<0.05	0.07	<0.05	0.21	5	7
R2 C44		0.74	1.37	0.30	0.68	60	14
R2 C45		1.18	0.86	0.23	0.69	54	9
R2 C46		0.30	0.68	0.06	0.27	57	7
R2 C47		0.28	<0.05	<0.05	0.17	7	6
R2 C48		0.06	<0.05	<0.05	0.14	8	4
R2 C49		3.03	4.30	<0.05	0.43	35	23
R2 C50		0.79	0.75	<0.05	<0.05	21	14
R2 C51		0.05	<0.05	<0.05	0.17	11	4
R2 C52		0.75	0.52	<0.05	0.17	30	8
R2 C53		0.66	2.43	0.06	0.40	31	10
R2 01		2.03	<0.05	<0.05	1.08	9	3
R2 02		2.02	0.06	<0.05	1.54	8	4
R2 03		1.16	<0.05	<0.05	0.56	3	3

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 3A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 D4		21	1.9	85	28	115	5	55	9	<1	<5	64
R2 D5		10	1.5	116	20	172	3	66	14	<1	<5	66
R2 D6		49	3.0	395	26	11	7	52	51	10	<5	>2000
R2 D7		17	1.3	182	12	45	8	51	5	<1	<5	321
R2 D8		42	11.8	43	89	68	41	36	19	11	<5	>2000
R2 D9		8	1.8	99	117	29	1	4	9	12	<5	>2000
R2 D10		14	2.6	55	125	60	2	17	10	4	<5	>2000
R2 D11		8	0.7	28	21	41	<1	18	12	<1	<5	71
R2 D12		<5	0.9	23	31	18	<1	1	1	2	<5	1473
R2 D13		7	1.9	38	28	5	<1	2	<1	<1	<5	111
R2 D14		14	1.7	196	19	55	14	84	7	<1	<5	190
R2 D15		16	2.0	151	10	92	1	127	17	<1	<5	49
R2 D16		8	1.0	64	18	23	2	22	4	<1	<5	71
R2 E1		24	1.2	84	16	54	2	32	7	<1	<5	69
R2 E2		19	0.7	189	12	20	6	63	13	<1	<5	32
R2 E3		28	0.6	106	7	35	<1	39	12	<1	<5	34
R2 E4		21	1.2	80	8	63	<1	33	9	<1	<5	52
R2 E5		6	0.8	55	7	219	1	56	15	<1	<5	39
R2 E6		18	0.7	119	19	62	2	39	8	<1	<5	69
R2 E7		6	0.3	47	6	45	20	30	6	<1	<5	143
R2 E8		13	0.7	141	12	40	1	26	6	<1	<5	24
R2 F1		14	1.1	86	16	30	3	27	8	<1	<5	25
R2 F2		7	1.0	148	19	136	4	93	12	<1	<5	48
R2 F3		39	0.9	37	52	17	<1	17	7	14	<5	>2000
R2 F4		8	1.2	131	17	107	2	74	19	<1	<5	103
R2 F5		11	0.3	72	7	44	2	22	6	<1	<5	194
R2 F6		26	1.3	436	7	44	3	15	3	2	11	>2000
R2 F7		11	0.6	128	38	13	3	4	<1	<1	<5	593
R2 F8		3832	30.8	10260	17	17	7	48	352	79	50	>2000
R2 F9		1573	30.7	5321	2	8	4	17	71	69	12	>2000
R2 F10		742	19.7	4750	11	23	7	12	96	48	<5	>2000
R2 F11		1663	2.9	1398	8	8	7	67	103	59	31	>2000
R2 F12		517	1.7	2698	7	12	5	63	188	44	11	>2000
R2 F13		1474	6.6	1443	19	3	14	42	77	62	9	>2000
R2 F14		1875	2.6	2446	6	9	11	101	217	73	16	>2000
R2 F15		631	1.1	1382	11	13	15	104	197	43	5	>2000
R2 F16		2759	2.0	415	37	11	17	15	30	21	23	>2000
R2 F17		38	0.6	176	10	40	1	15	7	<1	<5	678
R2 F18		1059	0.8	90	4	23	43	316	367	36	16	>2000
R2 F19		583	0.6	51	3	19	20	133	157	24	10	>2000

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 38

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 D4		7	2.51	0.01	<10	192	142	164	<20	<10	14	2.17
R2 D5		<5	4.52	0.01	<10	93	68	39	<20	<10	16	2.48
R2 D6		20	8.28	<0.01	14	14	95	<1	<20	<10	1	0.04
R2 D7		9	4.52	<0.01	<10	91	77	113	<20	<10	9	3.74
R2 D8		20	2.50	<0.01	<10	82	116	147	<20	<10	7	0.64
R2 D9		24	1.47	0.02	<10	82	33	<1	<20	<10	2	0.65
R2 D10		17	4.28	0.04	<10	111	56	19	<20	<10	12	1.31
R2 D11		<5	3.00	0.02	<10	307	72	73	<20	<10	11	5.24
R2 D12		<5	0.31	0.01	<10	70	42	<1	<20	<10	2	0.44
R2 D13		<5	0.78	0.01	<10	64	38	1	<20	<10	<1	0.42
R2 D14		9	5.41	<0.01	<10	92	176	160	<20	<10	15	1.96
R2 D15		6	>10.00	0.05	13	23	39	12	<20	12	1	1.14
R2 D16		<5	2.21	<0.01	<10	129	106	42	<20	<10	7	0.83
R2 E1		5	3.56	0.02	<10	122	84	47	<20	<10	11	2.66
R2 E2		<5	2.75	<0.01	<10	110	99	139	<20	<10	8	1.87
R2 E3		6	4.77	0.01	<10	102	91	59	<20	<10	13	3.42
R2 E4		7	5.58	0.02	<10	286	126	76	<20	<10	12	4.01
R2 E5		6	4.49	0.05	<10	169	182	75	<20	<10	14	3.86
R2 E6		8	4.16	0.03	<10	250	70	49	<20	<10	23	3.09
R2 E7		<5	3.22	<0.01	<10	46	67	178	<20	<10	23	1.58
R2 E8		<5	4.45	0.02	<10	710	69	44	<20	<10	27	3.29
R2 F1		11	5.56	0.02	<10	97	63	47	<20	<10	25	2.35
R2 F2		7	3.85	0.07	<10	74	128	83	<20	<10	8	1.82
R2 F3		61	2.68	0.02	<10	148	74	<1	<20	<10	6	0.44
R2 F4		6	5.11	0.18	<10	50	98	126	<20	<10	16	2.58
R2 F5		<5	1.18	<0.01	<10	335	52	16	<20	<10	15	0.88
R2 F6		35	>10.00	<0.01	16	12	41	1	<20	14	8	0.19
R2 F7		<5	1.89	<0.01	<10	255	87	27	<20	<10	5	1.15
R2 F8		195	2.75	<0.01	<10	25	17	<1	<20	<10	<1	0.10
R2 F9		94	>10.00	<0.01	30	109	33	<1	32	<10	<1	0.07
R2 F10		76	>10.00	<0.01	27	36	63	<1	<20	<10	54	0.31
R2 F11		84	9.69	<0.01	20	134	114	<1	<20	<10	<1	0.07
R2 F12		59	6.00	<0.01	14	90	92	<1	<20	<10	2	0.13
R2 F13		136	>10.00	<0.01	28	118	99	<1	<20	<10	<1	0.04
R2 F14		183	>10.00	<0.01	27	46	73	<1	<20	<10	2	0.08
R2 F15		65	6.57	<0.01	12	77	100	<1	<20	<10	1	0.22
R2 F16		29	4.44	<0.01	11	199	76	<1	<20	<10	3	0.11
R2 F17		6	3.09	0.01	<10	573	72	27	<20	<10	21	2.47
R2 F18		56	5.94	<0.01	16	63	45	<1	<20	<10	6	0.31
R2 F19		31	3.89	<0.01	<10	54	73	<1	<20	<10	13	0.28

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 30

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 D4		0.74	0.10	<0.05	0.41	9	6
R2 D5		1.21	<0.05	<0.05	0.88	5	4
R2 D6		<0.05	0.15	<0.05	<0.05	5	4
R2 D7		3.05	2.01	0.07	1.03	158	21
R2 D8		0.32	0.81	<0.05	0.16	26	11
R2 D9		0.08	2.23	<0.05	0.35	47	2
R2 D10		0.29	4.66	<0.05	0.38	74	5
R2 D11		1.13	3.79	0.40	0.42	120	5
R2 D12		<0.05	1.16	<0.05	0.26	25	2
R2 D13		<0.05	0.96	<0.05	0.29	37	1
R2 D14		1.34	<0.05	<0.05	0.69	5	7
R2 D15		3.38	0.59	<0.05	0.07	61	7
R2 D16		0.60	<0.05	<0.05	0.22	5	4
R2 E1		1.19	0.37	<0.05	0.72	12	8
R2 E2		1.01	0.25	<0.05	0.71	9	5
R2 E3		1.59	0.06	<0.05	0.96	7	3
R2 E4		2.20	0.07	<0.05	1.56	12	3
R2 E5		1.78	<0.05	<0.05	1.16	4	3
R2 E6		1.07	<0.05	<0.05	0.76	5	4
R2 E7		0.06	0.06	<0.05	<0.05	2	7
R2 E8		1.30	0.06	<0.05	0.95	9	5
R2 F1		1.27	<0.05	<0.05	0.59	9	5
R2 F2		0.97	0.58	<0.05	0.38	65	5
R2 F3		0.14	<0.05	<0.05	0.13	34	3
R2 F4		1.44	0.37	<0.05	0.84	12	13
R2 F5		0.18	<0.05	<0.05	0.32	10	6
R2 F6		<0.05	<0.05	<0.05	<0.05	4	3
R2 F7		0.58	<0.05	<0.05	0.39	4	2
R2 F8		<0.05	<0.05	<0.05	<0.05	1	2
R2 F9		<0.05	<0.05	<0.05	<0.05	<1	<1
R2 F10		<0.05	<0.05	<0.05	0.82	11	3
R2 F11		<0.05	<0.05	<0.05	0.11	3	<1
R2 F12		<0.05	<0.05	<0.05	0.06	8	<1
R2 F13		<0.05	<0.05	<0.05	<0.05	2	<1
R2 F14		<0.05	<0.05	<0.05	<0.05	2	<1
R2 F15		0.08	<0.05	<0.05	0.15	5	2
R2 F16		<0.05	<0.05	<0.05	0.08	17	1
R2 F17		0.81	<0.05	<0.05	0.70	7	4
R2 F18		<0.05	0.32	<0.05	<0.05	26	9
R2 F19		<0.05	0.37	<0.05	<0.05	21	10

REPORT: V90-36225.D

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 4A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 F20		131	0.5	106	13	45	5	44	15	3	<5	>2000
R2 G1		486	2.1	1909	8	16	1	20	36	<1	29	1064
R2 G2		949	11.7	10337	9	53	4	30	23	<1	24	216
R2 G3		97	4.3	1877	26	69	3	11	11	<1	30	171
R2 G4		25	1.6	99	13	51	8	8	<1	<1	<5	93
R2 G5		7	2.3	24	28	7	4	3	<1	<1	<5	83
R2 G6		28	3.0	118	10	586	12	78	9	<1	<5	44
R2 H1		7	2.3	169	39	42	2	7	10	16	<5	>2000
R2 H2		37	1.9	423	90	65	<1	9	13	3	69	>2000
R2 H4		13	0.9	133	8	269	26	160	15	5	<5	156
R2 H5		18	0.5	23	10	27	1	9	10	<1	7	808
R2 H6		6	<0.2	29	6	4	3	6	2	<1	<5	79
R2 H7		24	0.3	5	36	41	<1	4	<1	2	<5	1989
R2 J1		764	0.4	26	<2	40	686	93	383	39	<5	>2000
R2 K1		1360	2.3	712	4	10	8	110	292	55	35	>2000
R2 K2		220	1.8	786	19	20	5	11	51	39	9	>2000
R2 K3		98	0.9	135	10	6	23	3	2	3	10	>2000
R2 L1		19	1.2	38	7	13	3	11	2	<1	<5	409
R2 M1		<5	1.1	167	16	61	10	88	10	<1	8	389
R2 M2		<5	0.6	115	24	14	2	9	12	<1	<5	54
R2 M4		20	1.6	194	30	53	10	82	33	<1	<5	334
R2 M6		10	1.2	155	11	173	2	84	30	<1	<5	118
R2 M7		154	0.9	196	38	30	<1	7	8	<1	<5	76
R2 M9		21	1.9	625	6	18	3	20	23	<1	<5	46
R2 M10		510	<0.2	45	126	20	<1	55	180	15	29	>2000
R2 N1		13	0.2	38	11	41	4	15	10	1	<5	1810
R2 N2		2006	2.1	17	87	18	3	13	4	30	14	>2000
R2 N3		3759	2.5	<1	286	20	<1	11	11	<1	294	>2000
R2 N4		1	2.5	71	113	28	8	34	5	43	42	>2000
R2 N5		31	1.6	512	18	60	6	145	45	<1	<5	1685
R2 N6		102	1.1	157	328	92	29	51	16	4	<5	>2000
R2 N7		<5	1.4	147	25	96	15	67	19	<1	<5	223
R2 N8		<5	0.5	30	6	36	78	56	22	<1	<5	181
R2 N9		72	0.3	28	9	26	12	34	6	<1	10	103
R2 O1		59	0.8	17	20	17	1	20	6	17	<5	>2000
R2 O2		3255	13.4	687	1042	19	<1	54	714	14	807	>2000
R2 O3		2156	34.7	69	2683	48	69	61	50	46	1431	>2000
R2 O4		60	1.2	362	41	36	1	13	19	3	24	>2000
R2 O5		89	1.6	47	158	9	1	10	38	61	13	>2000
R2 O6		257	2.0	13	127	5	4	17	15	64	28	>2000

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 46

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 F20		5	2.12	0.02	<10	213	90	29	<20	<10	18	1.39
R2 G1		7	4.26	0.02	<10	26	145	34	<20	<10	15	1.42
R2 G2		8	>10.00	0.04	17	96	75	208	<20	<10	13	4.80
R2 G3		12	4.32	0.03	<10	229	113	52	<20	<10	28	1.97
R2 G4		<5	3.74	0.01	<10	623	79	54	<20	<10	30	1.08
R2 G5		<5	1.21	<0.01	<10	234	103	12	<20	<10	4	0.14
R2 G6		<5	7.05	0.01	<10	126	57	73	<20	<10	23	2.71
R2 H1		290	5.07	0.02	<10	26	77	<1	<20	<10	26	0.64
R2 H2		22	6.87	0.04	<10	151	98	63	<20	<10	18	3.18
R2 H4		<5	4.86	0.01	<10	62	109	306	<20	<10	9	1.88
R2 H5		6	2.38	0.04	<10	43	67	48	<20	<10	7	1.29
R2 H6		<5	0.42	<0.01	<10	45	162	47	<20	<10	302	0.10
R2 H7		<5	0.51	<0.01	<10	80	49	<1	<20	<10	2	0.33
R2 J1		21	3.84	0.01	<10	314	46	23	<20	<10	10	0.45
R2 K1		150	9.64	<0.01	20	34	82	<1	<20	<10	3	0.08
R2 K2		67	7.10	<0.01	12	164	55	<1	<20	<10	9	0.21
R2 K3		8	3.80	<0.01	<10	128	110	40	<20	<10	32	0.44
R2 L1		9	1.03	<0.01	<10	234	121	17	<20	<10	9	0.81
R2 M1		14	3.18	0.03	16	117	122	434	<20	<10	16	3.40
R2 M2		9	4.19	0.02	<10	57	61	19	<20	<10	50	0.69
R2 M4		13	5.78	0.05	<10	32	88	30	<20	<10	3	0.55
R2 M6		22	7.33	0.16	<10	31	75	61	<20	<10	12	2.19
R2 M7		<5	5.41	0.03	<10	56	56	26	<20	<10	10	4.37
R2 M9		<5	7.81	0.05	13	23	24	7	<20	<10	2	2.24
R2 M10		95	2.58	<0.01	<10	5	42	<1	<20	<10	<1	0.24
R2 N1		10	4.68	0.06	<10	315	58	87	<20	<10	56	2.15
R2 N2		196	>10.00	0.01	30	13	68	<1	<20	<10	1	0.34
R2 N3		307	3.04	<0.01	<10	5	43	<1	<20	<10	<1	0.36
R2 N4		186	>10.00	0.04	33	25	60	<1	<20	<10	2	0.88
R2 N5		9	>10.00	0.20	19	28	59	94	<20	15	22	2.12
R2 N6		96	5.07	0.34	<10	161	134	24	<20	<10	12	0.58
R2 N7		14	4.80	0.04	<10	33	152	187	<20	<10	10	2.23
R2 N8		<5	0.76	0.29	<10	137	108	7	<20	<10	4	0.24
R2 N9		<5	0.95	0.06	<10	26	38	66	<20	<10	13	0.82
R2 O1		34	4.92	0.02	<10	72	66	2	<20	<10	10	1.06
R2 O2		800	2.91	<0.01	18	5	32	<1	<20	<10	<1	0.12
R2 O3		1024	>10.00	0.07	98	43	111	74	<20	<10	31	1.80
R2 O4		25	6.93	0.02	13	56	31	37	<20	<10	4	3.43
R2 O5		130	>10.00	<0.01	19	44	69	<1	<20	<10	6	0.34
R2 O6		68	>10.00	0.01	17	19	73	<1	<20	<10	3	0.43

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90
PROJECT: NONE GIVEN

PAGE 40

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 F20		0.68	<0.05	<0.05	0.42	10	4
R2 G1		0.91	0.18	<0.05	<0.05	5	3
R2 G2		3.00	1.01	0.22	3.20	53	7
R2 G3		1.12	0.41	0.11	0.46	30	8
R2 G4		0.64	<0.05	<0.05	0.23	8	6
R2 G5		<0.05	<0.05	<0.05	<0.05	6	<1
R2 G6		0.69	<0.05	<0.05	0.17	14	8
R2 H1		<0.05	0.06	<0.05	0.26	17	8
R2 H2		1.79	1.23	0.08	0.81	30	15
R2 H4		0.54	0.11	<0.05	0.35	6	8
R2 H5		1.32	3.11	<0.05	0.15	32	12
R2 H6		<0.05	0.73	<0.05	<0.05	13	21
R2 H7		0.05	<0.05	<0.05	0.11	4	1
R2 J1		1.08	0.82	<0.05	0.06	10	6
R2 K1		<0.05	<0.05	<0.05	0.07	2	1
R2 K2		<0.05	<0.05	<0.05	0.13	76	1
R2 K3		0.39	<0.05	0.06	0.60	15	2
R2 L1		0.33	<0.05	<0.05	0.20	5	2
R2 M1		1.63	4.83	0.28	1.32	172	42
R2 M2		0.26	0.87	<0.05	0.36	149	8
R2 M4		0.42	0.10	<0.05	0.10	6	4
R2 M6		1.42	0.10	<0.05	0.66	3	5
R2 M7		0.49	3.19	0.09	<0.05	59	13
R2 M9		0.74	2.03	0.05	<0.05	77	5
R2 M10		<0.05	<0.05	<0.05	0.08	8	2
R2 N1		1.11	0.82	0.07	0.46	37	12
R2 N2		0.14	<0.05	<0.05	0.18	12	3
R2 N3		0.06	<0.05	<0.05	0.17	12	3
R2 N4		0.40	0.07	<0.05	0.53	12	5
R2 N5		1.26	0.52	0.10	1.16	22	18
R2 N6		0.36	0.14	<0.05	0.24	23	7
R2 N7		1.14	0.18	<0.05	0.44	6	7
R2 N8		<0.05	<0.05	<0.05	0.06	11	3
R2 N9		0.58	3.14	<0.05	<0.05	31	22
R2 O1		0.45	0.07	<0.05	0.62	11	3
R2 O2		<0.05	<0.05	<0.05	<0.05	2	2
R2 O3		1.95	0.60	<0.05	1.29	10	19
R2 O4		1.07	2.89	0.06	0.08	43	20
R2 O5		0.05	<0.05	<0.05	0.16	24	3
R2 O6		0.09	0.09	<0.05	0.21	5	4

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 5A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 07		52	1.3	33	372	22	18	6	4	5	8	>2000
R2 P1		<5	1.5	173	16	77	15	105	43	<1	6	440
R2 P2		<5	1.2	1272	290	103	97	288	101	<1	41	180
R2 P3		4673	3.1	503	2170	79	30	135	119	127	45	>2000
R2 P4		2018	<0.2	10	148	16	3	7	7	119	13	>2000
R2 Q1		82	1.8	75	55	31	2	40	12	2	10	>2000
R2 Q2		>10000	9.9	226	7953	30	<1	6	6	<1	24	>2000
R2 Q3		69	1.0	401	27	12	3	19	16	1	5	1377
R2 Q4		586	0.6	731	299	67	<1	27	24	7	37	>2000
R2 Q7		2931	0.8	245	79	12	<1	42	343	125	185	>2000
R2 Q8		89	2.5	316	27	40	2	169	45	1	<5	1948
R2 R1		3117	19.2	33	1689	41	48	71	302	128	1391	>2000
R2 R2		162	<0.2	161	106	94	25	35	16	7	71	>2000
R2 R3		>10000	22.2	463	8417	26	<1	4	6	<1	34	>2000
R2 R4		>10000	>50.0	556	>10000	>20000	21	7	5	591	55	>2000
R2 R5		5146	5.0	146	4818	339	15	183	487	160	30	>2000
R2 R6		3199	14.7	259	8534	1045	2	244	40	188	961	>2000
R2 S1		399	2.2	441	624	77	6	89	35	13	27	>2000
R2 S2		2485	4.0	35	962	90	3	11	2	8	1974	>2000
R2 11		759	2.2	18	234	21	1	10	18	112	125	>2000
R2 T2		3879	3.8	5	525	39	1	15	220	235	922	>2000
R2 T3		2109	0.4	<1	152	22	2	5	89	252	144	>2000
R2 U1		100	2.4	270	112	44	6	7	5	9	17	>2000
R2 U2		25	1.4	102	147	154	4	102	34	5	7	>2000
R2 U3		32	0.6	98	61	25	10	26	6	2	7	1066
R2 U4		12	0.7	144	24	46	5	31	13	<1	<5	433
R2 U5		12	0.8	117	41	45	2	34	13	<1	<5	475
R2 U6		991	1.7	24	202	27	32	19	5	102	19	>2000
R2 U7		1198	44.4	68	>10000	29	10	6	3	125	291	>2000
R2 U8		60	0.3	9	298	20	3	7	2	12	<5	>2000
R2 U9		4276	>50.0	677	>10000	7004	6	33	54	334	1360	>2000
R2 V1		87	10.8	77	3478	227	3	57	26	7	42	>2000
R2 V2		35	2.7	152	670	71	5	54	23	1	12	930
R2 V3		22	3.0	205	797	128	17	29	36	<1	<5	392
R2 V4		12	0.7	85	137	74	4	23	15	<1	<5	201
R2 V5		835	4.5	615	669	184	7	128	18	28	55	>2000
R2 V6		341	2.2	18	696	63	1	7	2	3	195	1169
R2 V7		51	0.8	37	268	21	879	5	2	<1	23	381
R2 V8		426	1.4	11	170	12	8	4	32	80	51	>2000
R2 V9		1507	>50.0	42	>10000	62	6	2	3	152	262	>2000

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 58

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 07		43	1.96	0.08	<10	197	108	18	<20	12	6	0.84
R2 P1		5	7.40	0.57	10	26	99	77	<20	<10	10	3.15
R2 P2		36	2.38	0.03	<10	5	69	4	<20	<10	6	0.14
R2 P3		219	2.82	0.07	<10	5	61	<1	<20	<10	2	1.13
R2 P4		189	1.94	0.01	<10	10	67	<1	<20	<10	<1	0.13
R2 Q1		9	>10.00	0.04	17	67	72	64	<20	18	11	3.12
R2 Q2		1270	3.45	<0.01	<10	<5	19	<1	<20	<10	<1	0.16
R2 Q3		13	9.70	0.02	16	26	43	15	<20	11	51	0.97
R2 Q4		35	2.44	0.38	<10	5	33	13	<20	<10	3	2.31
R2 Q7		247	2.14	0.01	24	6	28	<1	<20	<10	<1	0.12
R2 Q8		12	>10.00	0.11	22	6	38	47	<20	16	13	1.80
R2 R1		529	2.18	0.06	59	14	64	<1	<20	<10	<1	1.49
R2 R2		187	3.40	0.19	<10	58	64	142	<20	<10	7	0.54
R2 R3		>2000	3.50	<0.01	<10	<5	21	<1	<20	<10	<1	0.13
R2 R4		>2000	2.25	0.02	<10	6	42	<1	<20	201	<1	0.52
R2 R5		764	2.54	<0.01	<10	7	41	<1	<20	<10	3	0.09
R2 R6		1072	3.43	<0.01	<10	<5	14	<1	<20	<10	2	0.04
R2 S1		74	8.89	0.03	15	37	107	192	<20	<10	19	4.38
R2 S2		280	0.66	0.01	92	43	85	<1	<20	<10	2	0.10
R2 T1		119	>10.00	0.02	21	23	85	<1	<20	<10	11	0.25
R2 T2		302	3.21	<0.01	<10	7	38	<1	<20	<10	<1	0.18
R2 T3		220	2.70	<0.01	<10	5	35	<1	<20	<10	<1	0.03
R2 U1		153	>10.00	<0.01	24	36	37	21	<20	20	<1	0.17
R2 U2		22	4.04	0.02	<10	45	72	28	<20	<10	18	4.07
R2 U3		10	1.62	0.03	<10	88	34	25	<20	<10	12	2.30
R2 U4		7	3.37	0.02	<10	103	73	113	<20	<10	35	3.56
R2 U5		8	3.01	0.03	<10	91	52	46	<20	<10	13	4.08
R2 U6		134	>10.00	0.02	16	31	77	31	<20	<10	3	1.33
R2 U7		>2000	>10.00	0.01	12	17	92	<1	<20	<10	<1	0.11
R2 U8		109	1.03	<0.01	<10	55	123	3	<20	<10	2	0.20
R2 U9		>2000	2.26	<0.01	<10	<5	40	<1	<20	<10	<1	0.07
R2 V1		875	8.20	0.04	14	80	176	177	<20	<10	25	6.76
R2 V2		163	6.54	0.04	10	82	143	108	<20	<10	5	5.92
R2 V3		114	>10.00	0.14	16	56	70	81	28	11	12	2.75
R2 V4		35	5.14	0.05	<10	183	71	169	<20	<10	43	2.78
R2 V5		74	3.15	<0.01	<10	<5	37	3	<20	668	<1	0.69
R2 V6		261	0.65	0.02	19	17	118	2	<20	13	1	0.08
R2 V7		72	1.17	<0.01	<10	26	148	4	<20	10	20	0.13
R2 V8		96	4.47	<0.01	11	20	112	<1	<20	<10	1	0.11
R2 V9		>2000	9.09	<0.01	18	37	66	<1	<20	<10	4	0.22

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 50

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 07		0.15	0.11	<0.05	0.42	7	4
R2 P1		2.56	0.55	0.12	1.47	38	5
R2 P2		0.05	0.15	<0.05	<0.05	9	8
R2 P3		1.13	<0.05	<0.05	0.34	2	5
R2 P4		<0.05	<0.05	<0.05	0.05	9	3
R2 Q1		0.52	2.05	0.13	0.10	145	5
R2 Q2		<0.05	<0.05	<0.05	<0.05	7	2
R2 Q3		0.13	0.22	<0.05	0.45	15	12
R2 Q4		2.81	0.15	<0.05	<0.05	2	5
R2 Q7		<0.05	<0.05	<0.05	<0.05	2	2
R2 Q8		0.56	0.11	<0.05	<0.05	4	14
R2 R1		2.16	0.20	<0.05	1.29	5	9
R2 R2		0.06	<0.05	<0.05	0.30	64	10
R2 R3		<0.05	<0.05	<0.05	<0.05	3	3
R2 R4		0.12	<0.05	<0.05	0.16	15	3
R2 R5		<0.05	<0.05	<0.05	<0.05	10	4
R2 R6		<0.05	<0.05	<0.05	<0.05	6	3
R2 S1		1.33	2.85	0.11	0.72	187	17
R2 S2		<0.05	<0.05	<0.05	<0.05	8	2
R2 T1		0.10	0.88	<0.05	0.15	17	4
R2 T2		<0.05	0.08	<0.05	0.10	57	3
R2 T3		<0.05	0.08	<0.05	<0.05	2	2
R2 U1		<0.05	<0.05	<0.05	<0.05	2	3
R2 U2		0.22	4.68	0.30	0.12	234	5
R2 U3		0.49	2.92	0.06	0.11	111	11
R2 U4		1.40	4.87	0.12	0.65	214	35
R2 U5		0.79	4.58	0.12	0.29	221	17
R2 U6		1.22	0.32	<0.05	0.97	7	11
R2 U7		<0.05	<0.05	<0.05	<0.05	13	2
R2 U8		0.09	0.10	<0.05	0.11	3	4
R2 U9		<0.05	<0.05	<0.05	<0.05	11	2
R2 V1		2.84	3.23	0.26	2.22	268	9
R2 V2		2.11	2.19	0.51	1.84	148	14
R2 V3		2.53	4.11	0.06	0.28	91	8
R2 V4		1.41	1.65	0.25	1.10	108	23
R2 V5		0.17	0.18	<0.05	0.41	5	6
R2 V6		<0.05	0.69	<0.05	0.05	10	1
R2 V7		<0.05	1.02	<0.05	0.09	17	15
R2 V8		<0.05	<0.05	<0.05	0.07	5	<1
R2 V9		<0.05	<0.05	<0.05	0.11	15	1

REPORT: V9G-36225.0

DATE PRINTED: 21-SEP

PROJECT: NONE GIVEN

PAGE 6A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 V10		>10000	10.5	80	1980	75	<1	15	5200	33	>2000	>2000
R2 V11		255	2.4	67	1014	1007	4	19	39	2	?	>2000
R2 W1		165	6.5	33	>10000	2537	2	6	19	29		>2000
R2 W2		19	0.9	30	419	112	<1	21	83	<1	5	2000
R2 W3		27	0.6	10	275	114	2	17	7	<1	?	2000
R2 W4		884	<0.2	24	80	47	3	15	27	<1	29	
R2 W5		22	20.5	8034	83	181	1	10	17	<1	29	
R2 W6		52	2.9	1868	276	58	<1	6	10	<1	99	
R2 W7		36	7.0	942	34	120	3	35	8	2	?	1000
R2 W8		10	2.2	82	71	610	3	24	9	4	5	896
R2 W9		<5	6.2	3639	25	36	6	7	19	<1	151	237
R2 X1		<5	1.3	133	26	78	3	9	2	<1	<5	240
R2 X2		<5	1.5	51	74	21	1	7	2	<1	5	322
R2 X3		12	<0.2	623	40	37	<1	5	6	<1	37	13
R2 X4		<5	2.4	244	58	37	8	49	12	<1	6	184
R2 X5		<5	0.9	102	31	42	6	15	3	<1	<5	97
R2 X6		12	0.8	81	42	53	3	13	4	<1	<5	105
R2 X7		29	0.7	6	40	4	2	1	<1	<1	10	80
R2 X8		8	2.1	138	24	127	6	9	<1	<1	<5	48
R2 X10		<5	0.7	16	30	82	<1	9	7	<1	<5	95
R2 X11		<5	0.8	244	16	26	2	11	7	<1	<5	179
R2 X12		<5	<0.2	19	31	436	<1	7	5	<1	23	5
R2 X13		<5	<0.2	25	30	391	<1	7	5	<1	21	42
R2 X14		8	<0.2	<1	47	548	<1	7	6	<1	30	26
R2 X15		6	1.8	27	96	59	21	5	1	<1	20	131
R2 X16		15	2.8	155	271	117	8	58	9	<1	9	155
R2 X17		1749	3.1	151	91	16	2	11	42	132	10	>2000
R2 X18		8560	13.5	450	9038	98	11	5	6	148	522	>2000

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 68

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 V10		356	2.58	<0.01	88	8	33	<1	<20	858	4	0.21
R2 V11		518	4.97	0.28	<10	64	55	35	<20	22	36	0.92
R2 W1	>2000		2.17	0.02	<10	10	44	<1	<20	<10	<1	0.09
R2 W2		138	6.84	0.05	11	54	33	21	<20	<10	12	1.54
R2 W3		91	1.23	0.10	<10	27	141	<1	<20	<10	4	6.14
R2 W4		155	2.93	0.09	<10	9	20	<1	<20	<10	<1	0.92
R2 W5		17	3.80	0.03	<10	104	95	5	<20	<10	21	0.63
R2 W6		42	3.06	0.03	<10	44	49	<1	<20	<10	13	0.44
R2 W7		21	6.05	0.04	<10	62	42	49	<20	<10	4	1.33
R2 W8		13	4.75	0.04	<10	47	15	8	<20	<10	3	1.56
R2 W9		8	1.86	0.02	<10	25	82	9	<20	105	32	0.48
R2 X1		9	7.51	<0.01	<10	111	97	59	<20	13	5	0.51
R2 X2		14	1.26	<0.01	<10	150	111	13	<20	<10	2	0.07
R2 X3		20	3.59	<0.01	<10	33	30	5	<20	<10	<1	0.09
R2 X4		11	7.79	0.03	12	62	85	115	<20	16	7	0.80
R2 X5		<5	5.10	0.01	<10	336	68	82	<20	<10	5	1.40
R2 X6		9	1.92	0.01	<10	403	105	71	<20	<10	9	1.12
R2 X7		19	0.69	<0.01	<10	143	36	7	<20	<10	25	0.30
R2 X8		14	>10.00	<0.01	25	157	70	149	<20	19	6	1.14
R2 X10		<5	4.66	0.05	<10	256	38	44	<20	<10	13	5.27
R2 X11		<5	7.33	0.01	12	41	71	70	<20	<10	32	1.80
R2 X12		10	3.09	<0.01	<10	43	21	9	<20	<10	22	0.78
R2 X13		8	2.88	<0.01	<10	50	26	11	<20	<10	28	0.87
R2 X14		17	3.63	<0.01	<10	16	13	7	<20	<10	<1	0.33
R2 X15		25	9.09	<0.01	13	125	65	18	<20	10	13	0.24
R2 X16		33	>10.00	<0.01	14	28	41	11	<20	11	8	0.42
R2 X17		145	>10.00	<0.01	24	13	42	<1	<20	<10	<1	0.20
R2 X18	>2000		2.02	<0.01	<10	6	58	<1	<20	<10	<1	0.11

REPORT: V90-36225.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 60

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 V10		<0.05	0.07	<0.05	0.08	7	4
R2 V11		0.42	1.22	<0.05	0.38	58	15
R2 W1		<0.05	<0.05	<0.05	0.05	6	2
R2 W2		1.16	5.85	<0.05	0.27	74	10
R2 W3		0.08	0.15	<0.05	<0.05	4	2
R2 W4		0.89	0.06	<0.05	<0.05	41	6
R2 W5		0.12	3.20	<0.05	0.25	35	10
R2 W6		0.18	1.03	<0.05	0.12	14	7
R2 W7		1.65	0.56	<0.05	0.07	26	13
R2 W8		0.84	3.69	<0.05	<0.05	129	3
R2 W9		0.10	1.12	<0.05	0.07	10	13
R2 X1		0.24	<0.05	<0.05	0.07	4	1
R2 X2		<0.05	<0.05	<0.05	<0.05	4	<1
R2 X3		<0.05	<0.05	<0.05	<0.05	1	4
R2 X4		0.77	9.27	<0.05	<0.05	490	35
R2 X5		0.60	0.16	<0.05	0.45	77	4
R2 X6		0.50	0.10	<0.05	0.38	25	5
R2 X7		<0.05	<0.05	<0.05	0.27	5	3
R2 X8		0.39	<0.05	<0.05	0.21	22	6
R2 X10		0.86	2.14	0.65	0.86	132	6
R2 X11		1.32	0.46	<0.05	0.39	11	9
R2 X12		<0.05	<0.05	<0.05	<0.05	5	8
R2 X13		<0.05	0.05	<0.05	<0.05	5	9
R2 X14		<0.05	<0.05	<0.05	<0.05	3	4
R2 X15		<0.05	<0.05	<0.05	0.35	10	3
R2 X16		<0.05	0.27	<0.05	0.12	10	7
R2 X17		<0.05	<0.05	<0.05	0.10	9	2
R2 X18		<0.05	<0.05	<0.05	0.06	1	1

REPORT: V90-36228.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
R2 Z1		31	1.4	6	83	13	<1	4	<1	1	30	613
R2 Z2		11	0.7	46	33	104	2	39	27	<1	<5	150
R2 Z3		9	9.5	8	90	5	<1	3	3	<1	95	167
R2 Z4		6	11.2	9	188	131	2	4	3	2	37	105
R2 Z5		13	6.8	4	146	4	<1	2	<1	<1	180	78
R2 Z6		7	2.7	6	88	3	2	4	4	<1	21	140
R2 Z7		19	1.4	9	36	3	4	3	<1	<1	<5	104
R2 Z8		5	1.4	3	30	13	1	4	<1	<1	<5	98
R2 Z9		23	0.3	3	32	11	<1	4	<1	<1	<5	88
R2 Z10		401	4.8	10	21	6	<1	4	1	<1	<5	127
R2 Z11		61	6.4	251	220	63	1	38	32	<1	82	64
R2 Z12		20	0.7	15	24	13	<1	19	7	<1	<5	38
R2 Z13		9	<0.2	5	12	12	<1	10	3	<1	<5	31
R2 Z14		11	0.4	37	12	21	<1	10	2	<1	<5	14
R2 Z15		20	1.1	61	50	51	1	5	2	1	<5	1017
R2 Z16		11	<0.2	7	21	13	2	4	<1	<1	<5	50
R2 Z17		13	<0.2	7	16	46	<1	26	10	<1	<5	29
R2 Z18		11	0.7	16	119	32	<1	9	3	<1	<5	32
R2 Z19		10	3.4	5	1248	13	<1	14	3	<1	11	34
R2 Z20		7	<0.2	16	62	33	<1	32	16	<1	<5	24
R2 Z21		18	<0.2	18	36	33	2	8	2	<1	<5	86
R2 Z22		8	0.3	24	30	59	<1	12	3	<1	<5	13
R2 Z23		<5	0.5	36	25	82	<1	18	7	<1	<5	19
R2 Z24		6	0.4	47	85	92	<1	39	18	<1	<5	5
R2 Z25		4779	<0.2	23	44	17	<1	10	13	<1	18	>2000
R2 Z26		109	0.5	42	18	31	<1	15	8	<1	<5	>2000
R2 Z27		999	0.9	20	244	9	<1	11	20	10	<5	>2000
R2 Z28		28	<0.2	3	20	4	<1	6	1	<1	<5	999
R2 Z29		18	<0.2	3	18	19	<1	10	3	<1	<5	530
R2 Z30		13	0.4	4	8	90	<1	30	16	<1	<5	218
R2 Z31		7	0.4	4	13	60	<1	25	7	<1	<5	109

REPORT: V90-36228.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. SHANE EBERT

SUBMITTED BY: S. EBERT

PROJECT: NONE GIVEN

DATE PRINTED: 21-SEP-90

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 10g Gold - Fire Assay	31	5 PPB	Fire-Assay	Fire Assay AA
2	Ag Silver	31	0.2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu Copper	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb Lead	31	2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn Zinc	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
6	Mo Molybdenum	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
7	Ni Nickel	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
8	Co Cobalt	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
9	Cd Cadmium	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
10	Bi Bismuth	31	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
11	As Arsenic	31	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
12	Sb Antimony	31	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
13	Fe Iron	31	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
14	Mn Manganese	31	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
15	Te Tellurium	31	10 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
16	Ba Barium	31	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
17	Cr Chromium	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
18	V Vanadium	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
19	Sn Tin	31	20 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
20	W Tungsten	31	10 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
21	La Lanthanum	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
22	Al Aluminium	31	0.02 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
23	Mg Magnesium	31	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
24	Ca Calcium	31	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
25	Na Sodium	31	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
26	K Potassium	31	0.05 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
27	Sr Strontium	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
28	Y Yttrium	31	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma

REPORT: V90-35228.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

PAGE 18

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
R2 Z1		27	0.40	<0.01	<10	6	92	<1	<20	72	2	2.10
R2 Z2		6	6.94	0.05	<10	23	50	27	<20	<10	22	2.59
R2 Z3		8	1.08	<0.01	<10	<5	119	<1	<20	<10	1	0.06
R2 Z4		<5	2.35	0.03	<10	11	66	<1	<20	94	2	0.19
R2 Z5		<5	0.26	<0.01	<10	<5	100	<1	<20	<10	23	0.03
R2 Z6		6	1.24	<0.01	<10	<5	103	<1	<20	<10	<1	<0.02
R2 Z7		13	2.63	<0.01	<10	9	89	2	<20	<10	25	0.18
R2 Z8		<5	0.43	0.03	<10	7	147	<1	<20	<10	1	0.02
R2 Z9		7	0.26	<0.01	<10	7	155	<1	<20	<10	3	0.05
R2 Z10		24	5.04	<0.01	<10	7	86	1	<20	<10	3	0.10
R2 Z11		<5	>10.00	0.02	24	6	68	9	<20	17	2	1.30
R2 Z12		<5	1.18	0.02	<10	100	119	2	<20	<10	7	0.17
R2 Z13		<5	0.59	<0.01	<10	15	95	2	<20	<10	22	0.15
R2 Z14		<5	3.56	<0.01	<10	12	75	10	<20	<10	8	0.25
R2 Z15		8	>10.00	<0.01	19	7	93	5	<20	16	10	0.26
R2 Z16		<5	0.99	<0.01	<10	<5	92	5	<20	<10	12	0.31
R2 Z17		<5	2.42	0.02	<10	<5	97	7	<20	<10	17	0.48
R2 Z18		<5	1.94	<0.01	<10	9	107	4	<20	<10	2	0.37
R2 Z19		<5	0.45	0.02	<10	<5	119	1	<20	<10	14	0.10
R2 Z20		<5	1.02	0.04	<10	<5	77	3	<20	<10	11	0.36
R2 Z21		<5	0.78	<0.01	<10	<5	170	2	<20	<10	3	0.15
R2 Z22		<5	5.23	0.02	<10	6	62	12	<20	<10	9	1.47
R2 Z23		<5	5.87	0.03	<10	13	77	11	<20	<10	8	1.88
R2 Z24		<5	5.87	0.03	<10	28	58	12	<20	<10	25	1.76
R2 Z25		119	2.54	<0.01	<10	<5	35	<1	<20	<10	<1	0.07
R2 Z26		<5	6.25	0.03	<10	9	100	<1	<20	<10	9	0.71
R2 Z27		27	6.87	<0.01	<10	6	87	<1	<20	<10	5	0.12
R2 Z28		<5	0.38	<0.01	<10	<5	133	<1	<20	<10	21	0.04
R2 Z29		<5	1.29	0.03	<10	<5	125	5	<20	<10	3	0.51
R2 Z30		<5	3.04	0.04	<10	<5	99	8	<20	<10	2	1.64
R2 Z31		<5	5.33	0.06	<10	15	65	14	<20	<10	29	2.08

V90-36228.0

DATE PRINTED: 21-Sep
PROJECT: NONE GIVEN

PAGE 10

NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
R2 Z1		<0.05	<0.05	<0.05	0.06	1	2
R2 Z2		1.05	<0.05	<0.05	0.11	8	5
R2 Z3		<0.05	<0.05	<0.05	<0.05	<1	<1
R2 Z4		<0.05	0.22	<0.05	0.13	3	6
R2 Z5		<0.05	<0.05	<0.05	<0.05	2	1
R2 Z6		<0.05	<0.05	<0.05	<0.05	<1	<1
R2 Z7		<0.05	<0.05	<0.05	<0.05	12	2
R2 Z8		<0.05	0.32	<0.05	<0.05	10	<1
R2 Z9		<0.05	<0.05	<0.05	<0.05	2	<1
R2 Z10		0.05	<0.05	<0.05	<0.05	3	<1
R2 Z11		0.05	<0.05	<0.05	0.08	5	2
R2 Z12		0.06	<0.05	<0.05	<0.05	4	1
R2 Z13		0.07	0.11	<0.05	<0.05	8	2
R2 Z14		<0.05	<0.05	<0.05	<0.05	2	<1
R2 Z15		<0.05	<0.05	<0.05	<0.05	<1	2
R2 Z16		0.13	<0.05	<0.05	<0.05	4	1
R2 Z17		0.19	<0.05	<0.05	<0.05	2	3
R2 Z18		0.24	0.15	<0.05	<0.05	6	<1
R2 Z19		<0.05	0.34	<0.05	<0.05	11	3
R2 Z20		0.12	0.06	<0.05	<0.05	4	4
R2 Z21		0.08	<0.05	<0.05	<0.05	1	<1
R2 Z22		0.73	<0.05	<0.05	<0.05	2	1
R2 Z23		1.05	0.07	<0.05	0.06	7	2
R2 Z24		0.97	0.09	<0.05	0.11	11	4
R2 Z25		<0.05	<0.05	<0.05	<0.05	<1	2
R2 Z26		0.38	<0.05	<0.05	<0.05	3	4
R2 Z27		<0.05	<0.05	<0.05	<0.05	9	<1
R2 Z28		<0.05	0.15	<0.05	<0.05	8	2
R2 Z29		0.26	<0.05	<0.05	<0.05	1	<1
R2 Z30		1.23	0.06	<0.05	<0.05	2	<1
R2 Z31		0.89	6.42	<0.05	0.07	278	12

S7 8469

REPORT: 490-35223.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. SHANE EBERT

SUBMITTED BY: S. EBERT

PROJECT: NONE GIVEN

DATE PRINTED: 21-SEP-90

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	31	2 -150	31	CRUSH,PULVERIZE -150	31

REPORT COPIES TO: 11442 - 76th AVENUE

INVOICE TO: 11442 - 76th AVENUE

* retest of samples above upper detection limits
for Au, Ag, Pb, Cu, Zn

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



Certificate
of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES


REPORT: V90-36225.6

DATE PRINTED: 25-SEP-90

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Ag OPT	Cu PCT	Pb PCT	Zn PCT
R2 A2				2.32	5.31		
R2 A3				1.24			
R2 C29		0.418					
R2 Q2		1.000					
R2 R3		1.050					
R2 R4		0.617	2.98			11.24	4.17
R2 U7						1.83	
R2 U9				12.23		13.54	
R2 V9				3.11		3.20	
R2 V10		0.616					
R2 W1						1.63	


Registered Assayer

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
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Certificate
 of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V90-36225.6

DATE PRINTED: 25-SEP-90

PROJECT: NONE GIVEN

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Ag OPT	Cu PCT	Pb PCT	Zn PCT
A2 Duplicate				2.32 2.38	5.31 5.26		
A3 Duplicate				1.24 1.24			
R4 Duplicate		0.617	2.98		11.24 11.12	4.17 4.14	
U7 Duplicate					1.83 1.83		
U9 Duplicate				12.23 12.02	13.54 13.63		
V9 Duplicate				3.11	3.20 3.18		

Area #2 Sample Locations
 (Some locations are on Area #2 traverse Record)

AREA #2
 GRID REF. 795 535
 MAP 105-013E
 SAMPLE LOCATIONS

* Note these pages are hand drawn enlargements of the 1:50,000 topo map, the pages were drawn individually from packed together so not all of the contours fit very well.

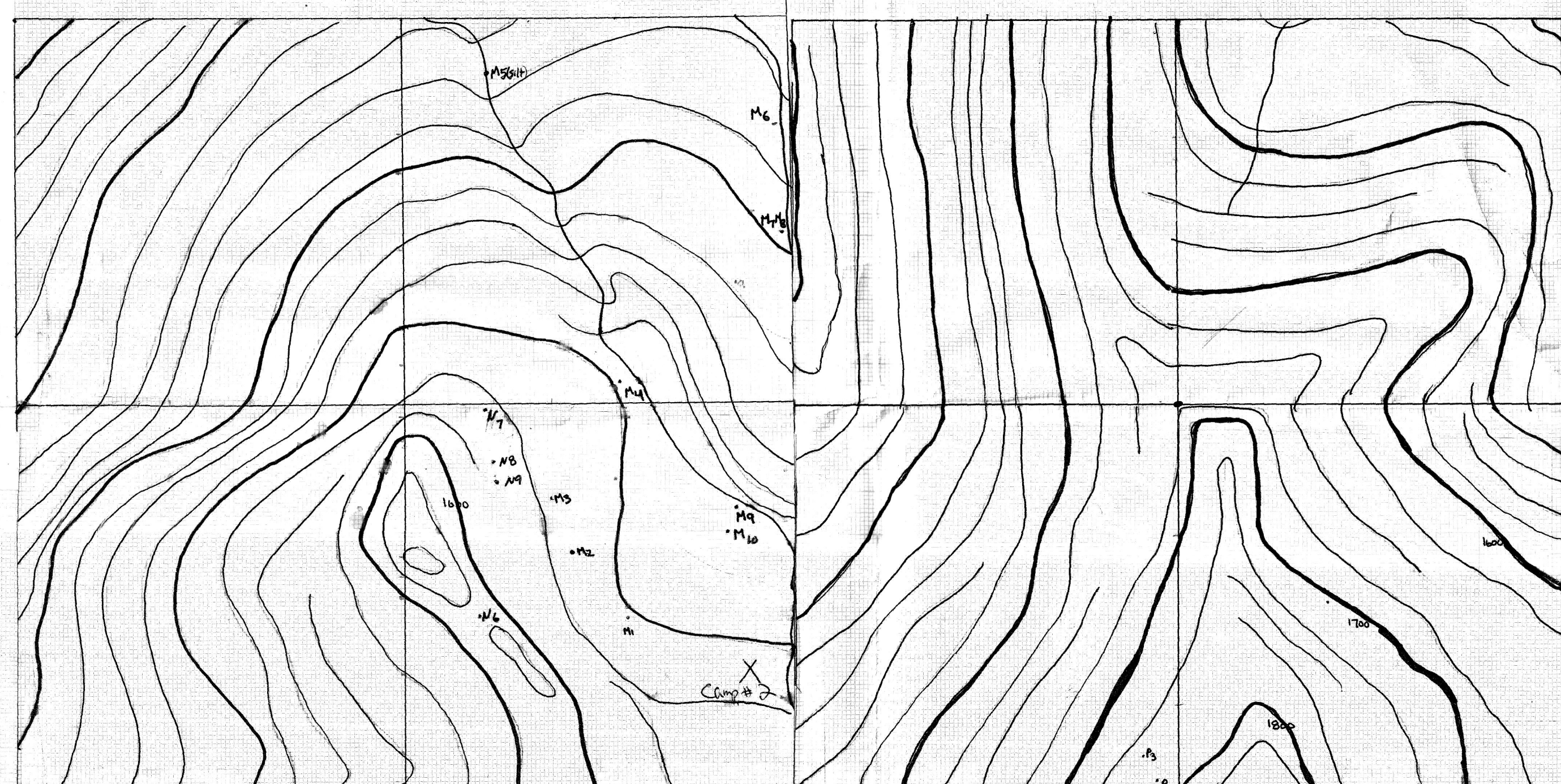
SAMPLES TAKEN BY
 S. EBERT
 G. COULTER

1000m x 1000m
 C.I. 20m

AREA 2
 GRID REF. PT.
 805 535
 105 ON MAP
 SAMPLE LOCATIONS

SAMPLES TAKEN BY
 S. EBERT
 G. COULTER

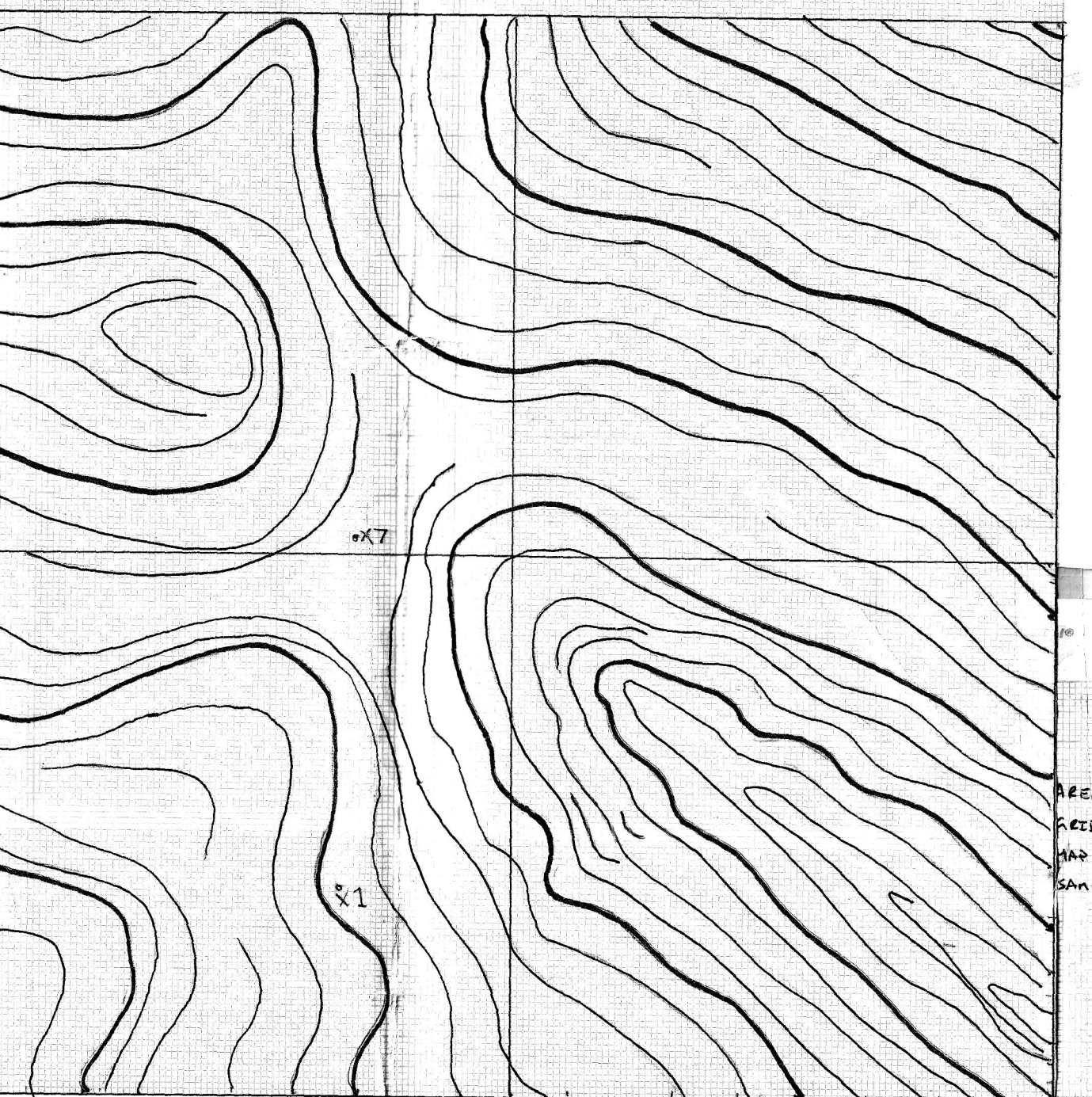
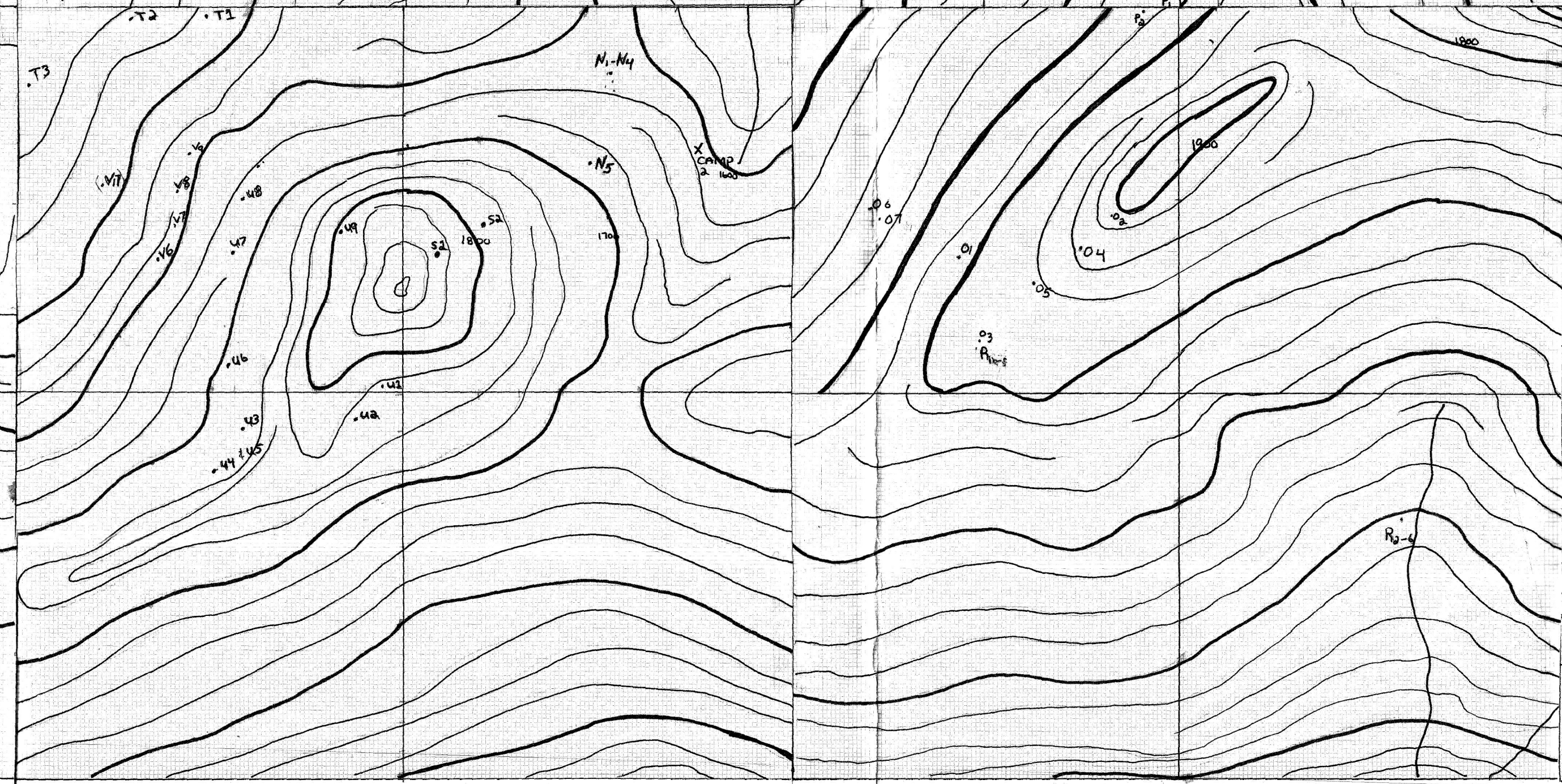
Scale: 1000m x 1000m
 C.I. 20m



AREA 2
 REF GRID 795 525
 MAP 105-011
 SAMPLE LOCATIONS

SAMPLES TAKEN BY
 S. EBERT
 G. COULTER

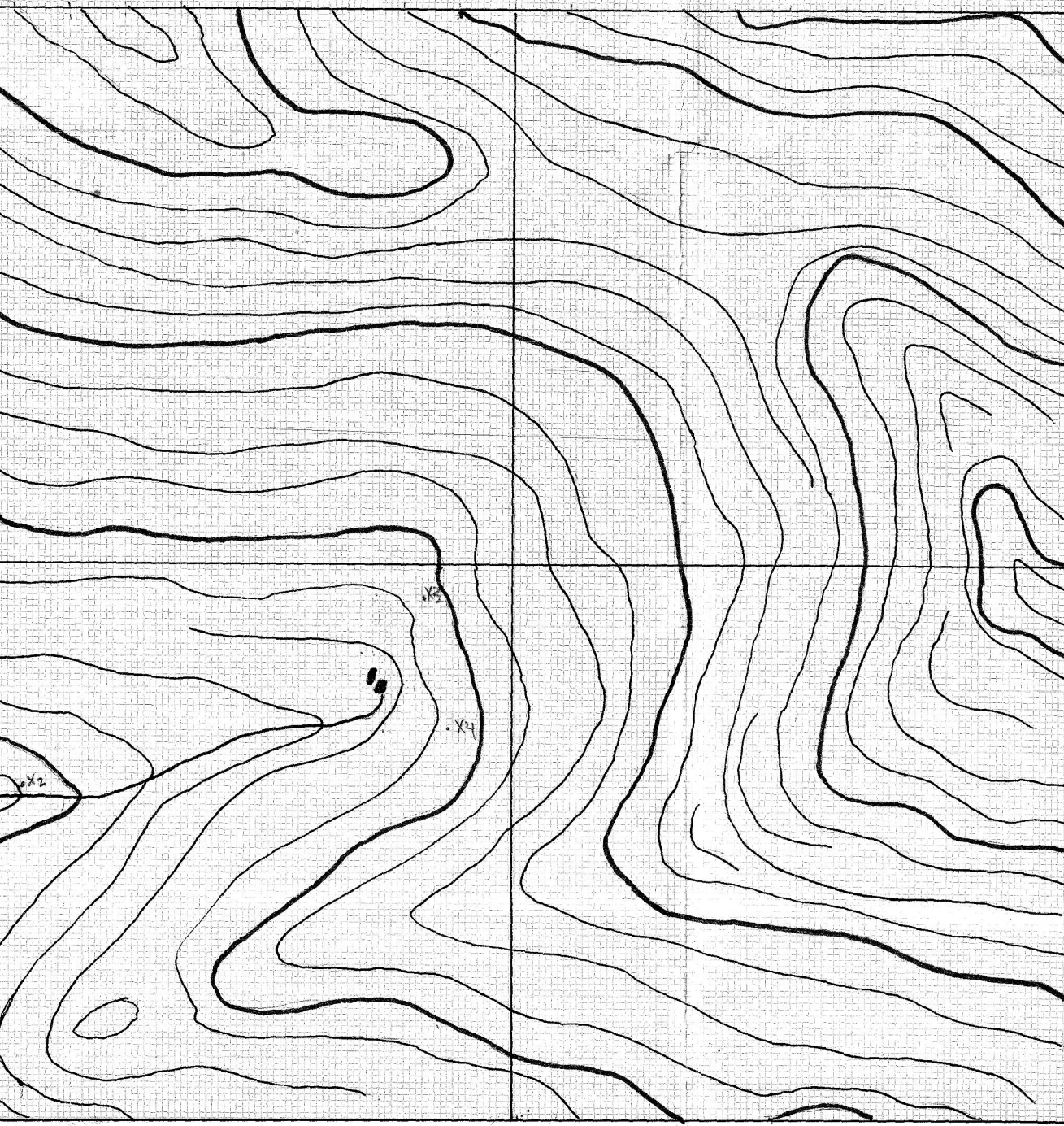
1000m x 1000m
 C.I. 20m



AREA #2
 GRID REF.
 MAP 105-011
 SAMPLE LOCATIONS

SAMPLES TAKEN BY
 S. EBERT
 G. COULTER

1000m x 1000m
 C.I. 20m



ada

Map 105 H/15
1:50 000 Topo

MÉTRIQUE

-traverse & rock samples
are highlighted
▲ = Camp

ÉDITION 1

2 Timers Low
○ Sample collected
● Anomalous stream sample (AS)

105 H/1
TUNGSTEN

15 H/16

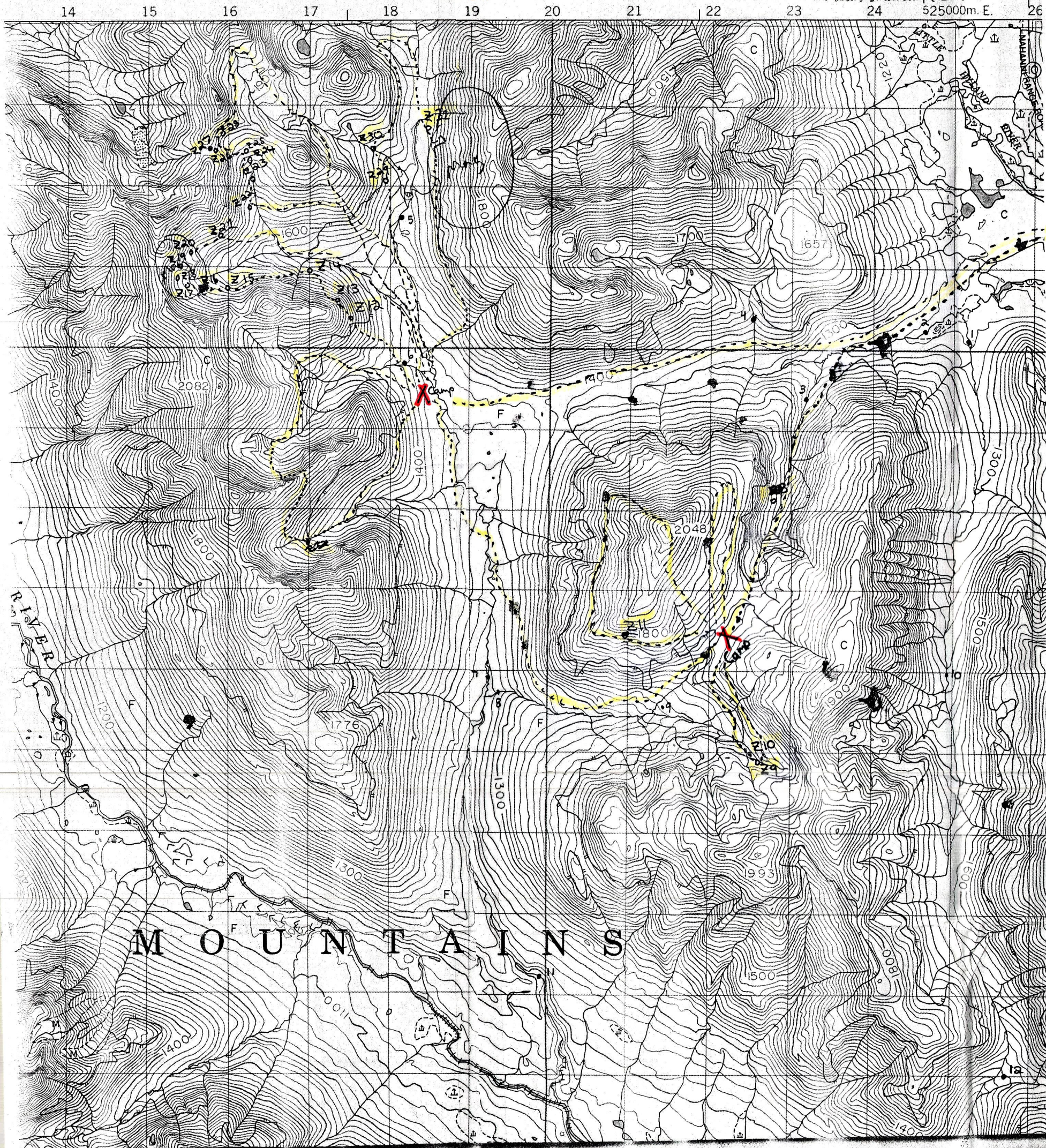
2nd Area
(West of Tungsten)

ÉDITION 1

Map 105 H/16
1:50 000 Topo

METRIC

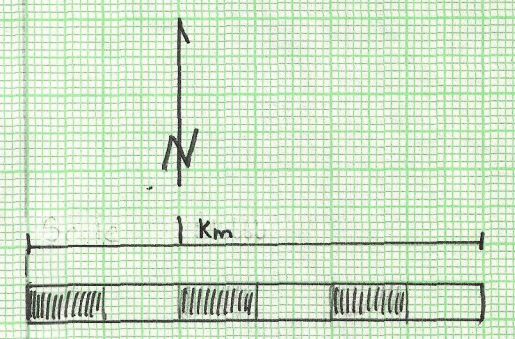
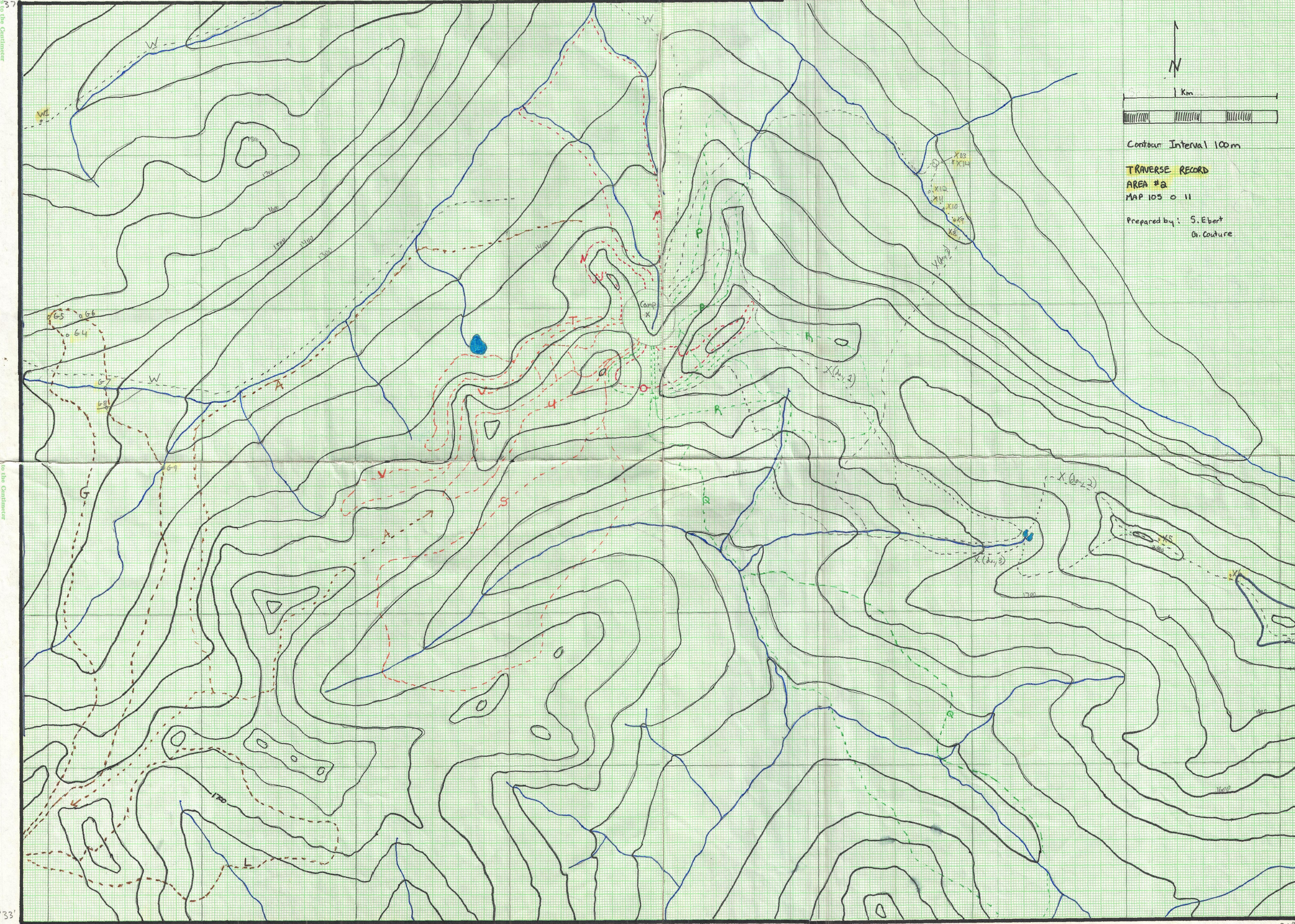
○ Sample co
● Anomalous



63° 37'

to the East

63° 33'



Contour Interval 100m

TRAVERSE RECORD
AREA #2
MAP 105 0 11

Prepared by: S. Ebert
 G. Couture

131° 30'

131° 20'