

DAY 1

Aug ~~21~~ 31/90

going uphill 070'

granite mafc-rich tr. py  
silicified

mica granite

mafic sill or dikes

leucogranite

N of 3500' fault? valley at 120'

N of fault massive medium grn  
granite (typical granitic texture)

018° 40' W limestone? on top of granite

red alter<sup>n</sup> + <sup>several</sup> lithium, greenish-white  
veins with white (limy)

coat  
across 20'+ wide of granite

(sample taken)

spodumene?

diss po in gabbros nearby alter<sup>d</sup> granite with  
trace diss. py, red alteration (small area)

Spt. 1, 90

DAY 2

going East up creek (un-named)

boulders of granite with py or with po  
trace cp in one boulder with po

boulder of qtz vein with py in granite  
(sample taken) Ai-5

bedrock starts at ~ 3400' & stops at 3600'  
biotite-rich granite (like schist)  
with trace diss. py.

both pit 3450' (100' on top of river, on river gravel)  
20' above bedrock sample Ai-1 small boulder with abd. malachite  
with massive magnetite  
another boulder with 5% Cu melachite, cp  
azurite, mt.

First creek to the south. Fresh granite  
up the hill and along creek bed.

Objective: Looking for float mineralization along  
the creek

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Sept. 2, 90

DAY 3

1200m elev. gabbro massive, fresh

Gabbro on top 1500m elev.

1450m boulder with 5% diorite  
a bit rounded  
source not far (unless glaciated)  
(sample A12)

tributary to the north, all clay, few  
boulders

En route downhill parallel ridges NW-SE  
with gravel deposits: old fluvial deposits  
when level of river was higher than  
today.

Sept. 3, 90

DAY 4

- 3780 m elev.

altered granite with 5% diss. py  
silicification

(sample taken)

- 3800 m old trench, fresh granite

abund. float massive magnetite  
with serpentinite

small veins or patches with py or mt.

4750 m top of hill fresh granite

3900 m Trench with vein of cp-malachite

serpentinite with diss. py (sample)  
barite? soft like calcite

vein appears flat & turns vertical  
over 15'

This trench at north end of claims

YB 26355 & 356

object: Investigate source of Cu-Mt. boulders  
found on creek on DAY 2

#1 YB 26355

#1 YB 26356

#2 353

#2 354

DAY 5

Sept. 4, 90

one vein 12' runs N-S Cu on both lines  
lines at 050

2 ddh

small creek E of camp has float of siliceous  
mafic intrusive with up to 10% diss. py

(sample)

Cu showing: "flat" ( $15^\circ$  NE dip) mafic sill  
with py & locally Cu-mineralization  
above sill along sill with alteration  
Lot(?) above sill quartzite below  
layered sequence

- 3 other exposed veins below above showing  
all are in granitic rocks

Conclusion: look for flat veins in granitic rocks  
assoc. with mafic sills or dikes or  
in overlying rocks.

#1 25560

25559

staked Mar. 29/89

#2 25558

not found on claim  
map.

Spt 5, 90

DAY 6

East of camp up the creek

~ 3400 m elev. 400 m up creek from Ai-1  
boulder of ~~scap~~ mafic intrusive, coarse-grained with cu stain - non magnetic  
near top of river bank of sediments  
120' thick.  
some banded py

~ 3750 m elev. bedrock on North side  
sill of fine mafic rock, 3m+ thick  
dip 15° NE

boulder ~~with~~ of silicified rock with 5-8% py  
qtz stringers (sample Ai-3, assay for Au)

~ 3950 m, at tributary to the north  
Fresh granitic rocks

Source of py-rich gneiss further  
upstream

Float similar to Ai-3 at 3950 m  
on main creek

~ 3900 m small creek to the north.

float banded siliceous gneiss? with diss. po (3%)

same location as Ai-1, float with 4% po in  
silicified rock (Ai-4)

" " float with 5% py in silicified intrusive  
(Ai-6)

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Sept. 6, 90

DAY 7

- elev. 4150m outcrop of quartzite  
dip  $15^{\circ}$  NE at headwaters  
of creek

Dam-creek: several outcrops of  
mica schists and smaller bands  
of quartzites and calcareous  
bands,

~ 3600m 6m(+) sill of interm. porphyry  
(dacite)

below 150'(+) calcareous band

" 6m(+) sill of interm. porphyry

~ 3400m gneiss or layered granite

Sept. 7, 90

DAY 8

- In intrusive sequence: <sup>Shear with</sup> Qtz veins with iron stain at  $095^\circ$ , vertical up to 1' thick.

- gneissic granite with mafic sill  
|| to gneiss banding.

occasional sills of diabase - no alteration

Occasional veins of quartz - barren

Pretty barren area.

DAY 9

Sept. 8, 90

- Cu showings with several trenches (cp. mala, py)

Host rock is white medium-to coarse granite cut by fine green intrusive sills or dikes (source of Cu)

Big outcrops of granite and gneiss / limestone, only trace py.

Previously trenched in many places, mountain side dug by cat in rusted outcrops, but no mineralization was exposed.

These showings were drilled many years ago.

- East side of Giltana lake

River gravel is mostly granite, but no mineralization was observed.

gneisses, thick limestone bands with mafic sills (similar sequence to Hopkins Cusshaw but here no mineralization).

Sept. 9, 90

DAY 10

- late Tertiary granite: massive, no alteration or mineralization.

cut by intermediate dikes/sills

- Biotite gneiss / calcareous bands  
cut by mafic dikes/sills.  
no alteration/mineralization

- Near road: Granitic rocks to the west  
of Biotite gneiss.

Thick mafic sill/dike just above  
road.

no alteration/mineralization

Very dead area.

DAY II

Sept. 10, 90

- Lena claim Cu showing: lenses of massive pyrrhotite and dissem. po in silicified rock.

Host rocks: limestone, biotite gneiss. ~~Did not see Cu~~

Note: similar rocks, po mineralization are common along the creek north of Hopkins showing. Gold assays of these po-rich samples are awaited.

### - Tlansanlin Creek Bridge

Abundance of rounded boulders with stringer/diss py (up to 10%) in silicified intrusive? rock.

Boulders only on north side of bridge.

have been brought from pit from another area. Terrain is rather flat and there are no boulders on this creek at the road elevation (sample Ai-7).

- Checked all creeks on map 115 H/11 on the Aishihik Road as far as

the airfield. Due to low elevation  
one can't prospect up the creeks  
as there are no rocks to be found.

Glacial deposits are plentiful and  
many pits dug beside the road  
all along.

- Quartz vein with thick (1/2") magnetite  
found in ester, angular boulder

DAY 12

Sept. 11, 90

Prospected on eskers E of Stevens Lake

- Top of ridge
- elev. 1200m rounded boulder with of  
silicified rock with 5% diss.  
stringer po-py (sample Ai-8)
  - elev. 1200m (east end of traverse)  
fresh granite, foliated forming  
several hills across 3000' (E-W)  
barren qtz veins
  - elev. 1250m top of ridge  
rounded boulder with diss stringer  
po-py<sup>sl</sup> in silicified rock  
similar to above  
(sample Ai-9)

On returning saw numerous outcrops of  
granite south of the eskers.

DAY 14

Sep. 13, 90

115M/11

Granite outcrops on western side  
of hill

Top of hill has mostly granite  
boulders with thin cover of soil.

North end of hill: Granite outcrop  
fresh, massive.

East side of hill: Granite outcrop  
fresh, massive.

boulders mostly granite.

Numerous rounded boulders beside road  
with dissem. cp-py-po in pitted  
silicified ~~rock~~ (First occurrence of cp  
north of Hopkins stoning).  
(sample A1-10)

Traverse on Tertiary volcanics

porphyritic lava, basalt and  
porphyry plug? in rugged  
topography.

No mineralization



Sept. 14, 90  
115M/11

essay for

DAY 15

CuAu - boulder of silicified intrusive with 3%  
gp, 4% py in stringers, dissem

(Ai-11)

- Further up get numerous boulders  
AuZnCu of intrusive with up to 5% dissem.  
py (resemble porphyry type mineralization)

AuCu - Ai-12 : 10% diss py in chl-silic. rock

AuZnCu - Ai-13 : large boulder with 5%  
py in stringers, dissem.

Au - Ai-14 : 3% py in qtz vein (boulder)  
at top of esker (cabin)

AuZnCu Ai-15 Silicified rock with diss py,  
sphal. ? carbonate  
stratified - very fine grained

No bedrock exposures in this area  
However, compared with other areas  
glacial till has a large number  
of mineralized boulders.

Sept. 15, 90

DAY 16

- Tertiary volcanic cover and further west fresh, massive granite with occas. barren quartz veins.)
- East side of island has granite outcrop (supposed to be gneiss/schist)
- Some boulders along channel of gneiss with quartz veins and py or po. (most rock is prob. gneiss)
- Fresh granite on remaining of traverse.

Sept. 16, 90

DAY 17

"  
" "  
- Placer creek

First Bedrock at 3750' elev. at junction  
with small creek from north.  
Fresh granite with some chl. on fractures

~ 4200' elev. Next outcrop of granite  
Medium grained with mafic  
dikes up to 4m wide

Several outcrops up to the bend of the  
river towards the south.

- Boulder of dark, fine-grained rock  
(from fault or shear) with dissem. py  
and quartz-py stringers + chl.

sample Ai-16

Several boulders of similar rock type as  
Ai-16 up to end of traverse along  
the creek. Must come from  
higher - up.

DAY 18

Sept. 17, 90

- 4650' elev. boulder of dark blue slate  
with 5-10% py

- 4700' elev. above junction with creek  
to the south boulder of gabbro  
with 5% diss. sulfides

- 4450' elev. outcrop of altered granite  
(crumbles, pick up with hammer)  
and two zones of pyrite-hem  
alteration 5m & 10m wide, some  
30m apart.

sample

(Ai-16)

Weathered on surface, can see  
diss py and pockets of py, hem.  
on fracture surfaces.

Hydrothermal alteration in granite

- Area of silicification in granite with  
dikes (acid, mafic), pegmatitic veins  
coarse, dissemin. py, purple mica (fluorite?)

(Ai-17)

sample

up to 8% py in dissem.

DAY 19

Sept. 18, 90

- Elev. 4000' of Thulsoo Mt. Massive diorite  
no alteration or mineralization

- Presumed fault between the two peaks

- Gabbro or diorite makes up ~~all~~ of  
the smaller peak (4200')

Cut by dikes/sills of fine mafic  
intrusive.

Occasional quartz veins with muscovite

Fresh. - barren

Spt 19, 90

DAY 20

- Followed north slope of Thurloo Mt.  
All granite-diorite  
One rounded boulder with diss. py-co  
in silicified intrusive rock.
- Investigated the valley between  
the peaks of 6180', 6000'  
Found a lot of red staining in  
foliated granitic rock. In places  
up to 5% diss. py in biotite-rich  
granite. Source is at the east side  
of this valley.
- Followed north slope of 6000' Mt.  
Mostly granite and diorite.
- Location <sup>of</sup> sample Ai-18 is  
silicified biotite granite with up to  
5% disse. py.
- Re-visited location of sample Ai-17  
At this area silicification is rather  
high with diss. py. Original rock  
texture is obscured and the rock  
is practically all silica and up to  
8% py. Only traces of muscovite  
were observed in this rock.

DAY 21

Sept. 20, 90

- Sample location A-16

Red altered granite is now a mixture of silica and py

Mafic dikes between 2 altered sections

Clay alteration surrounds the silica-py altered zones. Draw up the hill may be the trace of these 2 zones

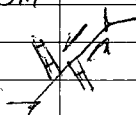
- Location of sample A-20 ~~020~~  
on trace of fault at ~~035~~  $035^{\circ}$   
cutting thru' mountain

5% chss py in sheared rock

Can't see the fault covered with rock slides on both sides

Trench is 5m wide and up to 8m deep.

abd epid. chl qtz veinlets in wallrocks. Tail dike cuts across and displaced 5m ~~020~~



This  $035^{\circ}$  structure was followed & traced to mountain to the south, where sheared granite with chssom. py was observed. It will be followed up on this mountain next time.

DAY 22

Sept. 21, 90

- Followed "Placer Creek" from 3000' to confluence with first creek from the north. Found a small boulder of black slate with dissemin. py.

Granite outcrops almost continually from elev. 3300' on the northern bank only. One fault at  $\approx 030^\circ$   $65^\circ$  dip to the south at  $\approx 3500'$ . No mineralization or clay alteration.

- Followed small north creek. Fresh granite boulders.

- Near top of hill a prominent fault valley runs up the side of the hill. This "valley" is from 15' to 30' wide, it is not continuous, and there is gabbro or granite on its sides with no alteration - mineralization observed on the wallrocks.

This fault can be traced to the next ridge 6 km away to the south.



Sept. 22, 90

DAY 23

- Followed up on the Zeus shear up on Hera Mt. picked up the mineralized shear all the way up the north slope

- Samples Ai-21 and Ai-22 were picked up on the north slope. They consist of sheared granite with 5-8% py.

Alteration consists of silicification with chlorite. Abundant clay alteration in granite suggests that these will be the barren wallrocks of the shear.

The natural trench on Zeus Mt. can be seen clearly from the top of Hera Mt. if one is in line around  $035^{\circ}$ .

-

- On the top portion of Hera Mt. sample Ai-23 consists of sheared quartz or sheared silicified granite with about 5% py. This is also on line with this shear

DAY 24

Sept. 23, 90

- Traced Zeus <sup>shear</sup> vein on Mt. Hera  
all the way across the top to  
the south side. From there you can't  
see due to rock slides.

Took samples A1-24, A1-25  
along the trace of the shear.  
Both have about 5% py in  
sheared silica or silicified rock.

The shear might continue down  
the valley between Mts. Hera  
and Thulsoo or might go along  
the side of Mt. Thulsoo. ✓  
No evidence of the shear on  
the side of the Mt. Thulsoo was found, but  
only some part was checked out.

Sept. 24, 90

DAY 25

- West edge of Hopkins Cu property:  
mafic sills or dikes with *Copernicia* near  
lower contact with limestone.  
Mineralization does not spread into  
wallrock.

Sills/dikes are steep trending  $\sim N20^{\circ}W$   
and do not continue outside property.

- Hills to the west:  
more massive limestone than in area  
of Cu shavings. There are sills/dikes  
of coarse-grained mafic rocks,  
but no trace of mineralization.

Outcrop however, is not continuous  
and the veins may be obscured  
by overburden cover.

- Barren on rest of traverse  
in limestone.

Sept. 25, 90

DAY 26

- Followed Big Mountain Creek  
up to junction with First Creek to the  
North.

- Followed this westerly creek  
where old placer claim. No evidence  
of work or trees blazed. Oil? in the water

- Numerous stained boulders, mostly  
mafic intrusive rocks. no sulfides

- Two boulders of acid siliceous  
with diss. py & veinlet pyrite  
up to 8% py.

- No bedrocks on the banks.  
up to elev. 3500'

Sept 26, 90

DAY 27

- Fault valley 10 m wide at  $\sim 020^\circ$  with diorite on both walls  
No alteration on walls. 1
- Second similar fault valley 10 m wide at  $\sim 010^\circ$ . No alteration
- Third one - similar
- Follow creek above 3500'  
No bedrock on banks  
Creek water starts at 4200'  
no water above.
- No red stain - alteration on talus rocks all the way up the river's valley
- Followed ridges (SW, SE) of Thulsoo Mt. Abundant frost heave rocks - mostly diorite - no red stain or alteration
- looked for trace of Zeus vein on south slope of SE ridge  
- no evidence of vein or alteration.
- Followed north slope of Big Mt. Creek - no stain or alteration  
Barren area.
- Followed one of the 3 fault valleys mentioned above - found no alteration on wallsides - must be recent

Spt 27, 90

DAY 22

- Followed western slope of Thalsoo Mt.  
Diorite on slope
- Followed Big Mt. Creek upstream from its junction with smaller creek to the south.
- Found no outcrop along river and no boulder mineralization
- Followed slopes on SW corner of map area 115 N/2 W  
Diorite and some gabbro.  
No alteration/mineralization
- Several steep sided fault? valleys running at  $\sim 020^\circ$  No alteration on walls  
Pretty dead area.

Sept. 28, 90

DAY 29

- Followed creek uphill to approx. elev. 3800'-3900', Mostly fresh granite boulders. No stained boulders and no bedrock on south bank.

Had to stop because of snow cover, couldn't see any boulders further up.

- Followed creek from Otter Falls up to ~4000' elev.

No bedrock on ~~river~~ banks. Boulders are mostly fresh diorite. No stained boulders - no evidence of alteration - mineralization.

Pretty dead areas.

Sept. 29, 90

DAY 30

- Investigated 3 peaks lined up E-W south of Great Mt. Creek to trace possible continuation of Zeus shear.

- All ridges made up of coarse granite - outcrop starts ~~just~~<sup>just</sup> E of road. Valleys are wide with no outcrop.

Will follow up <sup>tomorrow</sup> the creek to the south to see if any mineralization on these valleys.

- No alteration or mineralization in granite

Traverse started at ~ 13 km on Aishik Road and proceeded east.



Spt. 30 99

DAY 31

- To trace indicated faults to the south of Big Mt. Creek

- Followed creek up hill several smaller creeks to the north

- At ~ 3350' elev. major creek to the north - no stained boulders.

Followed main creek, has numerous stained boulders

- Elev 3380' boulder with micaceous altered basalt or andesite with biotite-cp stringers  
sample A-27

Ended ~ 3650' elev.

Sept. 7, 90

Samples for assay.

(Ai-1) : boulder with ~~po~~-mt.-malachite Cu Au Pt

Ai-2 : boulder of mafic sill + py Au Pt

Ai-3 : boulder of silicified rock + py Au

Ai-4 : silicified intrusive with po 4% Au

Ai-5 : vein of qtz + py <sup>prob.</sup> thru granite Au

Ai-6 : silicified intrusive ? with py Au Pt

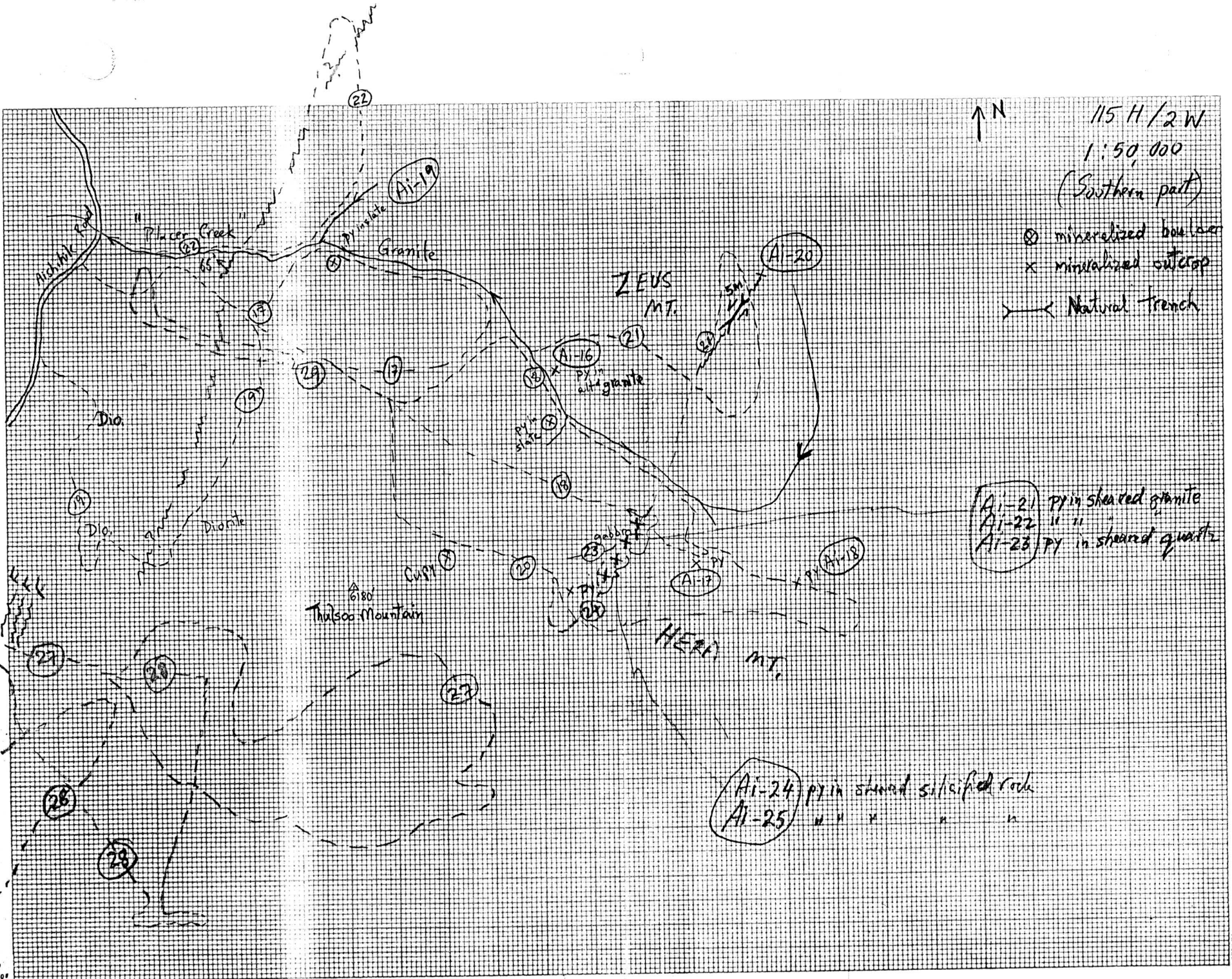


115 H / 2 W

1:50,000

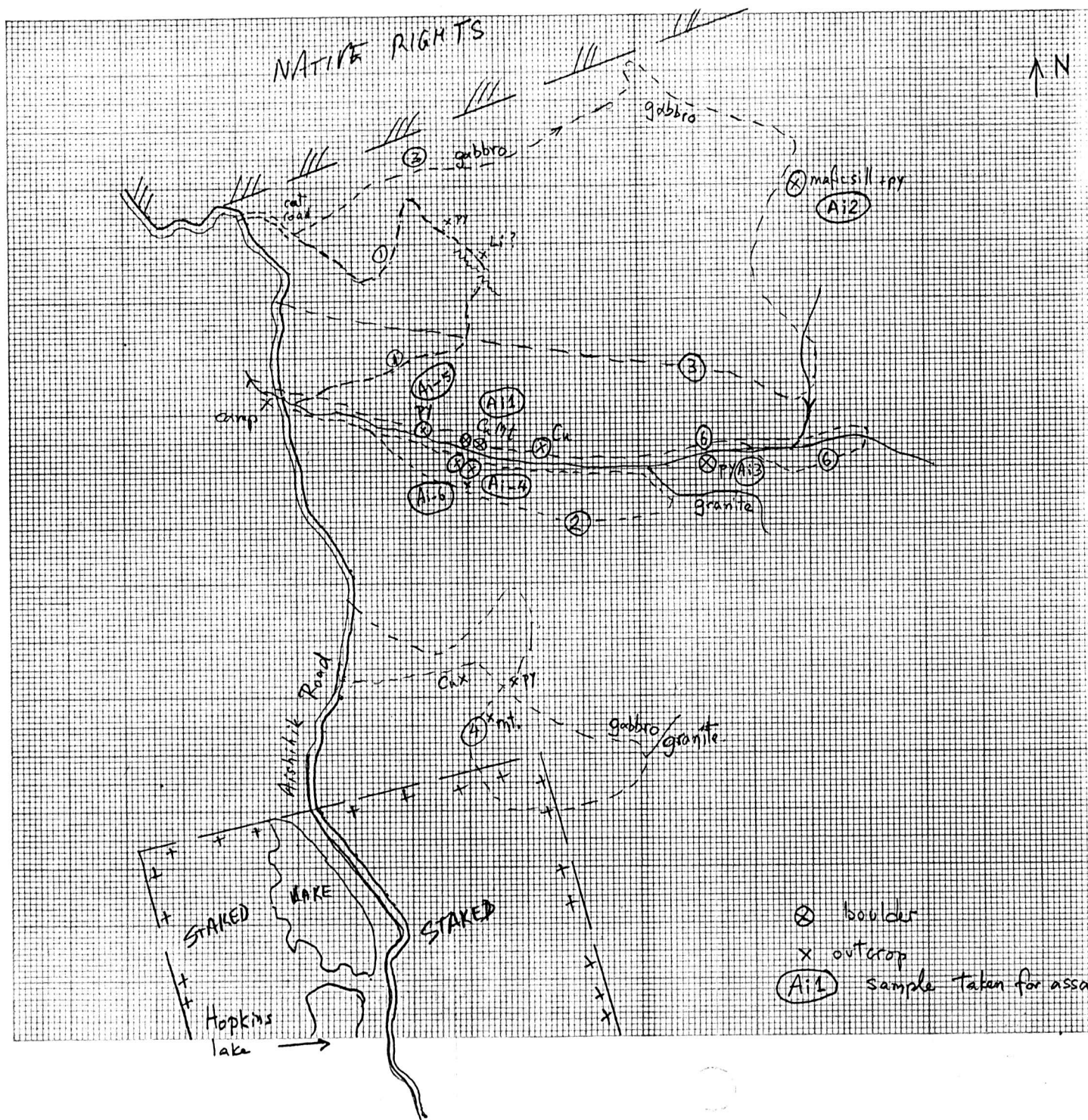
(Southern part)

- ⊗ mineralized boulder
- × mineralized outcrop
- ↔ Natural trench



61°  
137° 00'

90-679

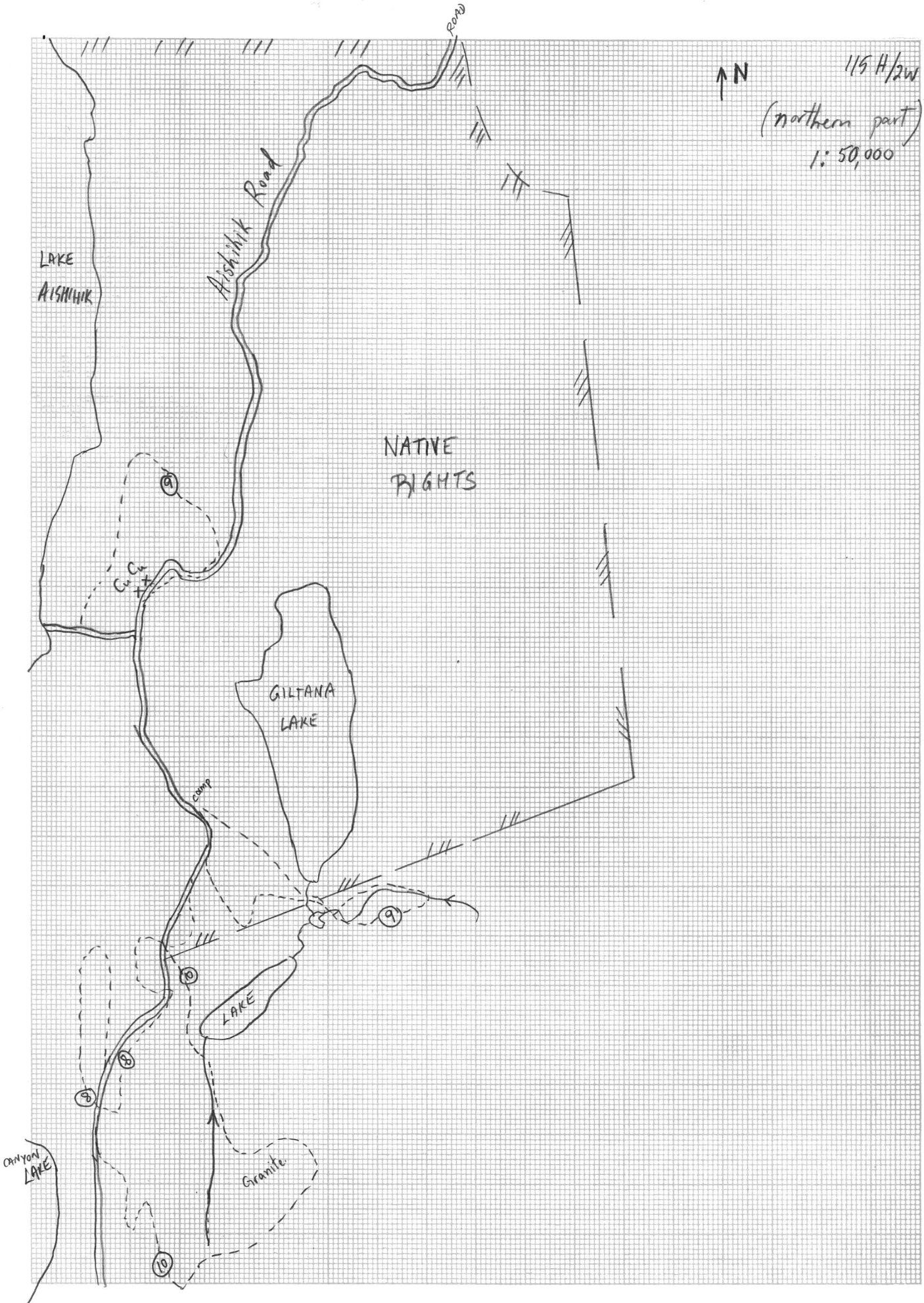


115 H / 7 W  
(northern part)

1:50,000

MICHAEL ISSIGONIS &  
GERARD HUTCHISON

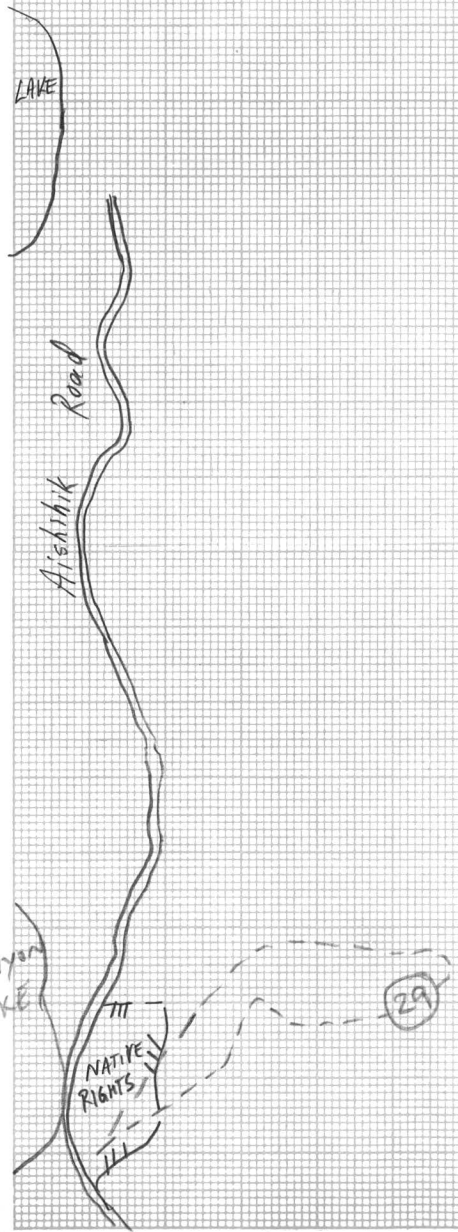
Aug. 31 - Sept 6, 1990





115H / 2W

1:50,000  
(middle part)





115H/7W (southern part)

1:50,000

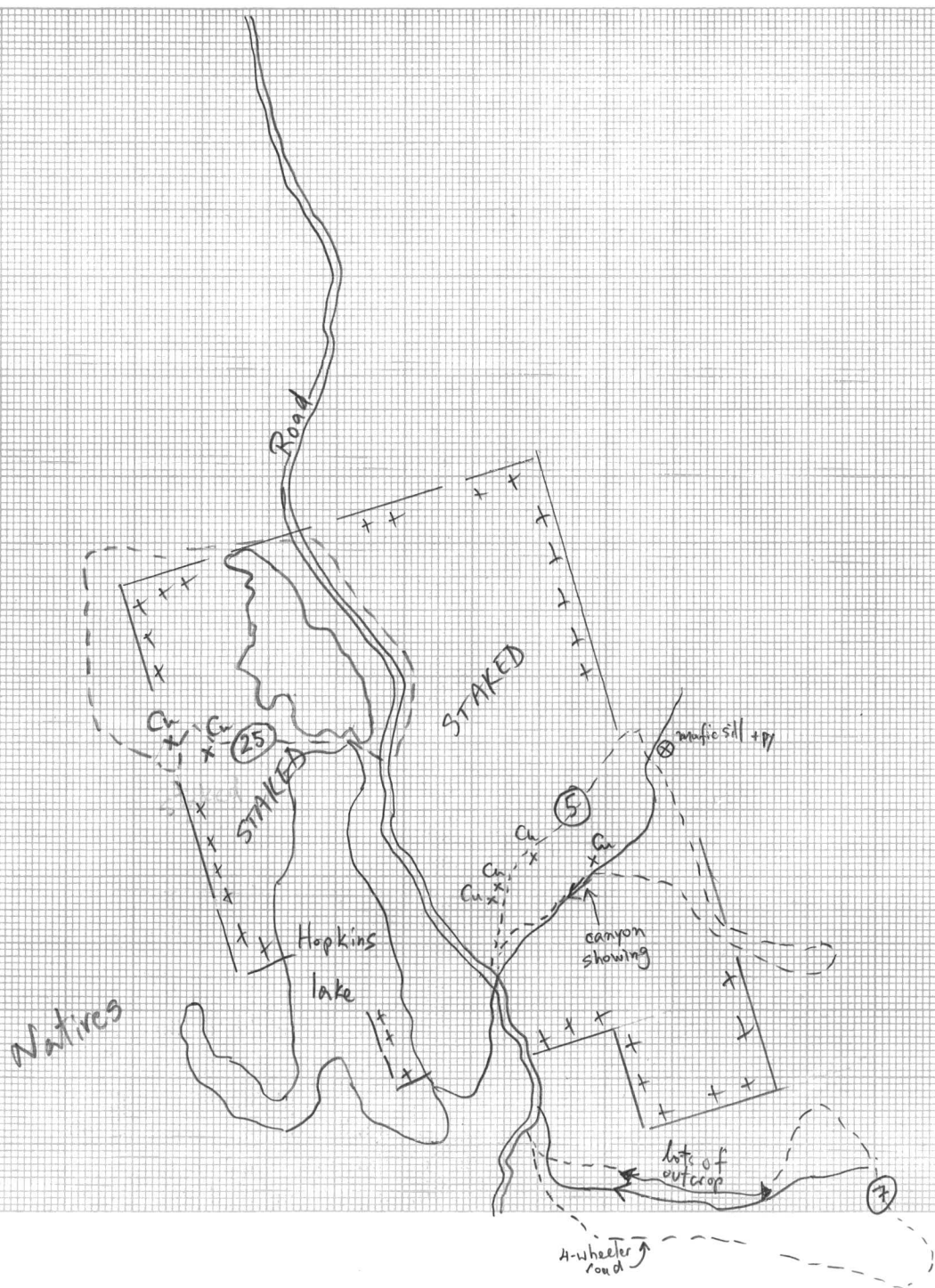
MICHAEL ISSIGONIS +

GERARD HUTCHISON

Aug. 31 - Sept. 6, 1990

⊗ boulder

x outcrop





115 H/11  
1:50,000  
(southern part)

Road

14

volcanics (tuff + porphyry)

AISHIHIK  
LAKE

Volcanics

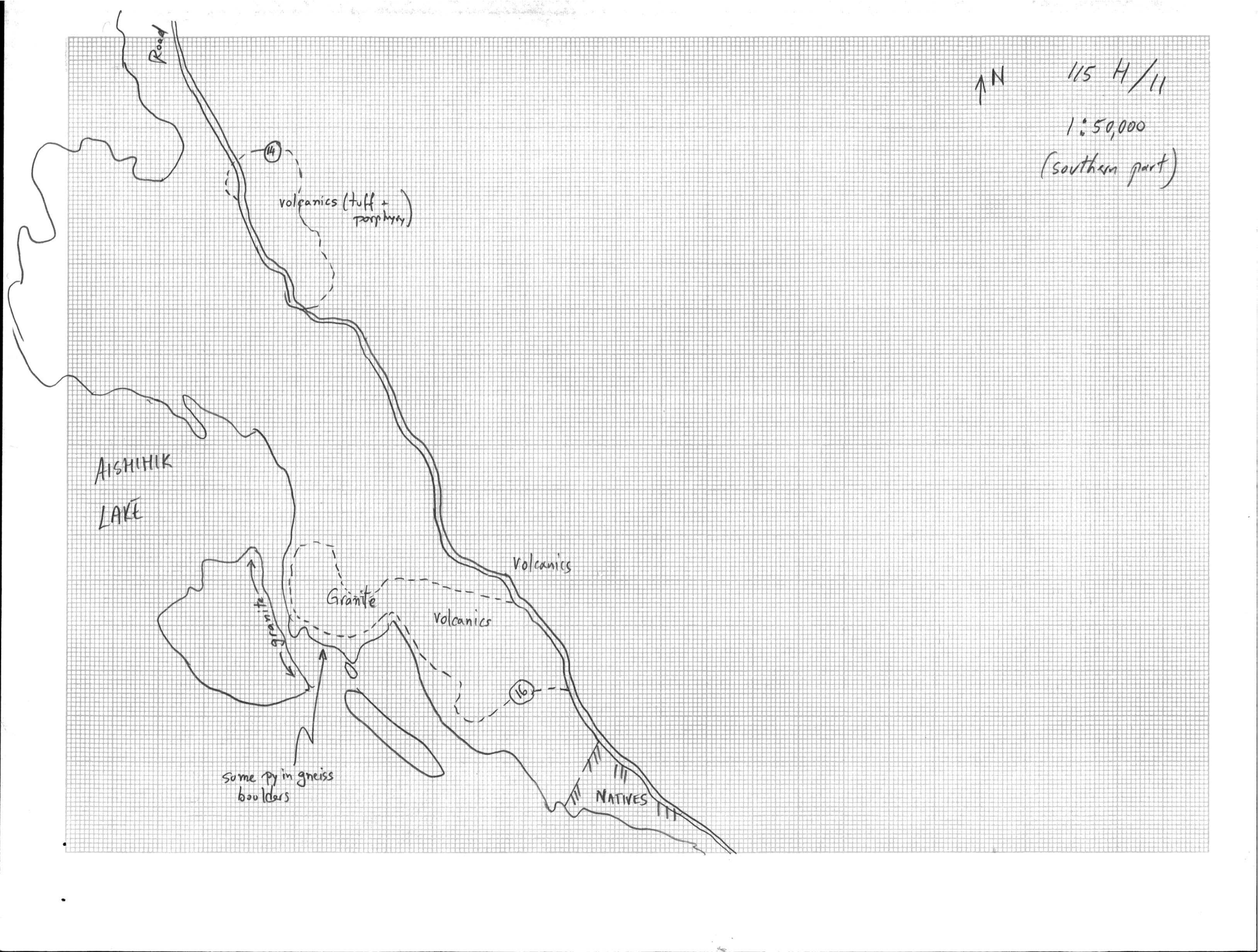
Granite

Volcanics

16

some py in gneiss  
boulders

NATIVES





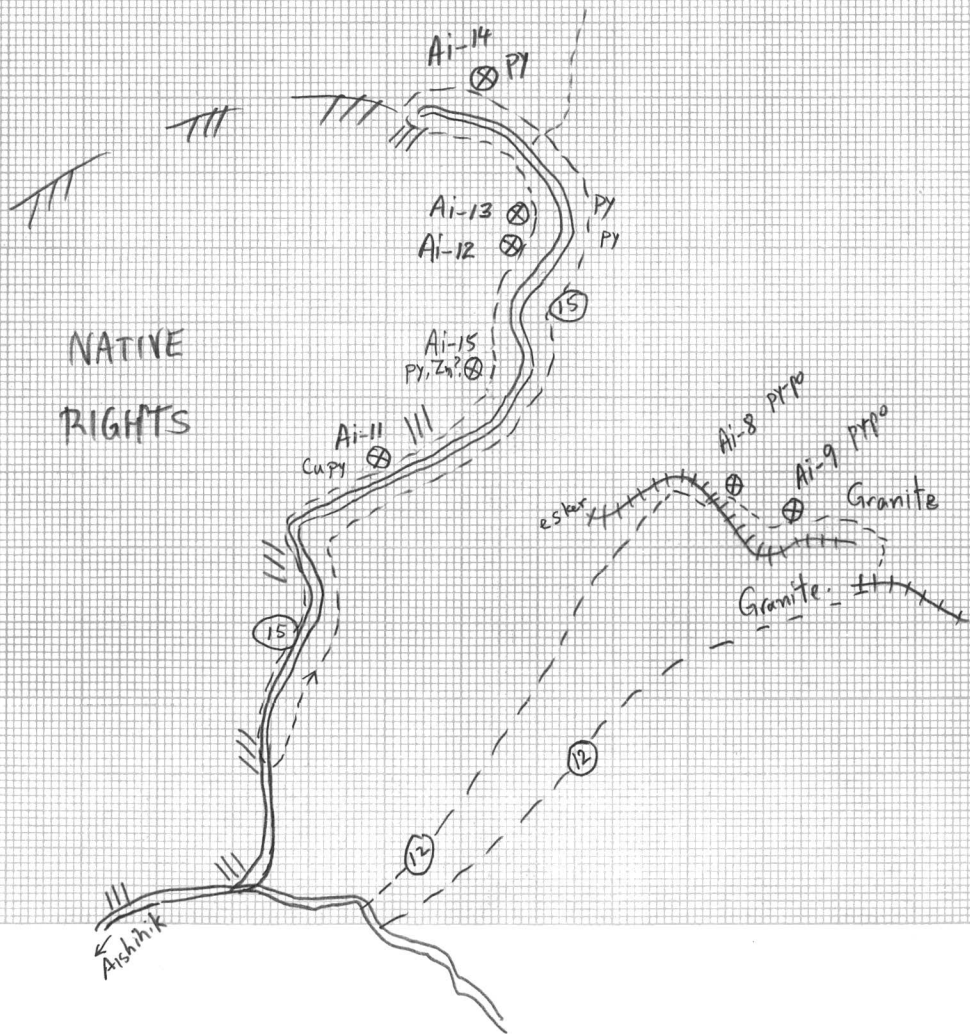


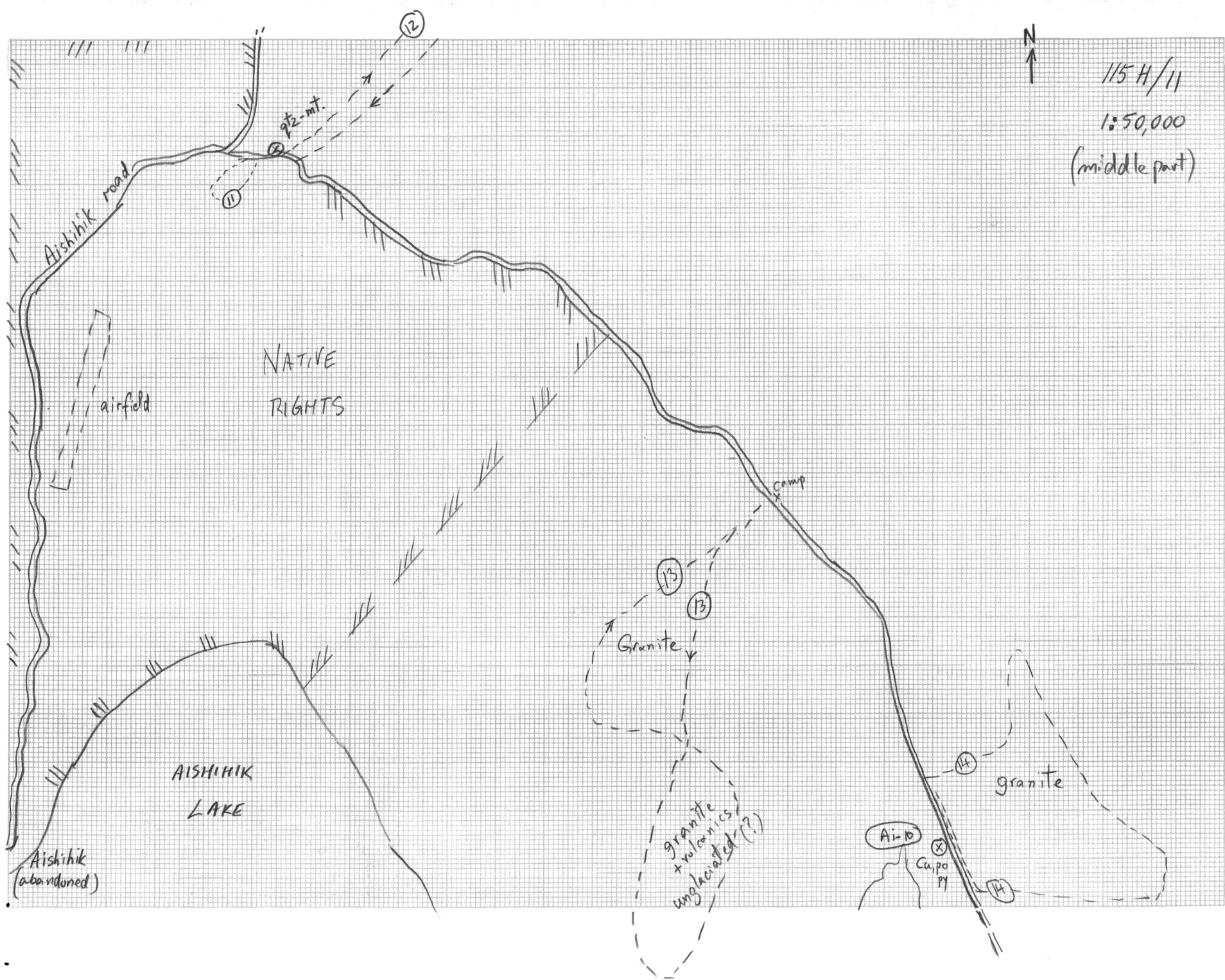
115 M/11

1:50,000

(northern part)

Ai-8 ⊗ mineralized boulder +  
sample number





October 1, 1990

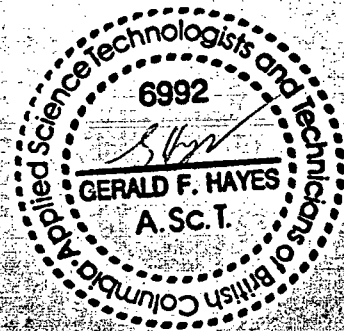
Work Order # 08416

Michael Issigonis  
 1223 - 22 St.  
 Brandon, Manitoba  
 B7B 1T5

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Zn
Ai - 7	34	0.6	104	160
Ai - 8	96	<0.1	4760	59
Ai - 9	14	0.4	170	35
Ai - 10	<10	0.3	2740	10
Ai - 11	10	<0.1	848	6
Ai - 12	<10	0.5	1420	16
Ai - 13	<10	<0.1	295	35
Ai - 14	<10	<0.1	16	<1
Ai - 15	<10	0.3	182	72
Ai - 16	<10	0.4	27	12
Ai - 17	<10	1.1	36	<1
Ai - 18	<10	0.4	<1	5
Ai - 19	<10	1.3	38	58
Ai - 20	31	<0.1	4	44

Au -- 15g Fire Assay/AAS  
 Metals -- Aqua Regia Digestion/AAS Geochem



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# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 18-SEP-90

REPORT: V90-36245.0

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au PPB	Pt PPB	Pd PPB	Cu PPM
R2 AI-1		2861	2312	<5	2	13018
R2 AI-2		28	26	7	4	617
R2 AI-3		668	774	<5	5	76
R2 AI-4		53	51	7	3	138
R2 AI-5		21	14	<5	2	90
R2 AI-6		13	14	8	3	734