

36

13

841856

North Nicola
Lake
M-511

51182-36

Sunny hot

SM

June 20

DACT CRYS TUFF

lt gn

aph matr, phen \leq 5mm, frag \leq 5mm

porp w FD, QZ crys, buffw rd HE PK
mass; join

dact?

37

DACT Porp Flow

mm gy

aph matr, $\phi_{\text{hen}} \leq 2\text{mm}$, sparse

porp w F_D (OR?)

mass, join

daet?

38

ENGR RAYL Flow, TORUS DIFF

Hgy

apl matr, min FD phen $\leq 2mm$.

~~is flow, is to right of~~
eggr, min FD phen, ~~is to right of~~

mass, join

rhyl flow

min CY? ED FAXL ; P2 UNLI

" dist PY

39

ALTR Royal Flow

It gy

aph

eggr

mass. join ll bedd?

vlnf? slow?

mod alt matr \rightarrow system \rightarrow CA

Dact	Crys	Tuff
Dact	Porp	Flow
Rhifl	Engr	Flow
Rhifl	Altr	Flow
bedd	Muds	
Mass	Lims	
Ands	Porp	Flow
Dact	Lapl	Tuff
Lims	Ands	Tuff
Ands	Amys	Flow
Ands	Engr	Flow
Ands	Tuff	Brec
Ands	Altr	Tuff

Ands	Tuff	- ash, Crys, ^{altr} Lapl, ^{lims} brec,
Ands	Flow	- porp, amys, ^{Engr} altr
Dact	Tuff	- ash, Crys, Lapl
Dact	Flow	- porp
Rhifl	Flow	- engr, altr

Mass Lims

Bedd Muds

S1182-42

Sunny, warm

June 22

42a. DACT TUFF BRECC

H gy - blk

vf gr matr, crys ≤ 5 mm, frag ≤ 10 cm

tuff brecc w blk cl, gy @ 2 frag,
@ 2, PL crys in ash matr

daet w ands - daet - shyl frag in
shyl matr
mass

min alt \rightarrow ry weath

42b DACT CRYS TUFF

H gn

vf gr matr, crys ≤ 2 mm, frag ≤ 2 cm

cryst tuff w PL, ^{HB?} crys, min daet frag

daet w limy matr.

min alt HB \rightarrow cl, PL \rightarrow cl
min to vein

S1182-43

Sunny, warm

June 23

DACT ASH TUFF

pk - tn

st gr matr, frag ≤ 5 mm

ash tuff w lapl

mass, join

daet w clands, HE rock frag, broken
FD grains, in silc matr
weath or rind

44

DACT CRYS TUFF

lt gn

aph matr, crys \leq 1mm

cryst tuff w PL crys in silc matr.

mass, joint

duct

trac. diss py

45

a Diact Cryst Tuff

Hgn

vt gr matr, crys $\leq 5\text{mm}$ frag $\leq 2\text{mm}$

ash tuff w crys Qz, Fd, Rk frag Hgn
mass, join

diact w Qz, Fd, Rk diact frag

b Diact Amyg Flow

Hgn

aph matr, amyg $\leq 10\text{mm}$

amyg w Qz, Cl, ~~stugg~~ in places

mass, join

diact w Qz, Fd, Bp, Cl

matr. non alt \rightarrow BP

June 23/82 ¹ Road travers
Swakam Mainline
photo A25864-155, scale 1:50,000

- 2 - andesite tuff - euhedral feldspar,
maroon colour, fragment, minor
alteration of feldspar.
Sample 511-82-301
- 3 - andesite tuff - slightly siliceous
phenocrysts, well jointed
(4/m). epidote alteration,
minor calcite.
- 4 - andesite tuff - siliceous, epidote
alteration of feldspar. no free
quartz. small feldspar crystals.
sample 511-82-302
- 5 - andesite tuff - siliceous, epidote
vein and alteration, porphyritic
- 6 - andesite tuff - siliceous, epidote
calcite alteration and veining
massive, well jointed,
- 7 - andesite tuff - siliceous, epidote

caliche alteration, fault zone with caliche flooding, some hematite fragments.

8 Limy andesite tuff - sheared, siliceous, pyrite 1-2% minor chlorite, very fine

9 Andesite flow, fine grain, dark massive, good pyrite fresh
Sample 511-82-303

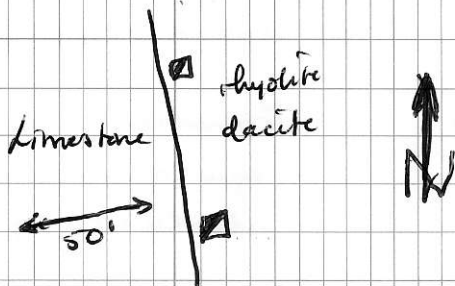
11 Andesite tuff - massive - fine grained, epidote zoning and disseminated.

12 Dacite tuff - quartz eyes. siliceous. quartz veins cutting stercrop, possible some siliceous around evidence in float.

13 Andesite flow

- 15 Lamy andesite tuff, chlorite alteration, alot of calcite.
- 17 Andesite tuff - hematite fragment
- 21 Andesite tuff - fine grained maybe flow - dark. no alteration.
- 24 Andesite flow - epidote stringers veins plus epidote alteration massive, no obvious porphyry.
- 25 Lamy andesite tuff, dark fine grained. slight purplish tinge.
- 26 Andesite flow - slightly calcareous, no feldspar alteration
- 27 Gneiss - medium grain equigranular, massive abundant quartz.
- 28 Andesite - fine grain, no epidote not porphyritic

36



- 29 Dacite tuft ⁴ - good fragments
some limy andesite tuft
pink calcite in vesicles
+
- 32 Dacite ash tuft, massive
rusty, well weathered. no
sign of pyrite.
- 34 Andesite - pyrite - fine
and disseminated and vein. by,
calcite along veins.
511-82-306
- 35 Andesite tuft - highly
sheared in sections
perpendicular to road
porphyritic to massive.
- 36 Old Mine working
511-82-304 - rhyolite
511-82-305 - Dacite tuft
plus some samples of
mineralization, shaft
on edge of limestone
abdt of rhyolite in dumps.
good sphalerite, galena,
pyrite

37

Limestone

Summary

The old mine is very promising. The mineralization appears to be associated with rhyolite and dacite. It indicates maybe there is more around -

AS. MCARTHUR
JUNE 23, 1981 / SUNNY DAY

51182-512 ?

~~Dark to~~ Andesite tuff
Small fragments
dark greenish color.

51182-513

Andesite tuff
Small fragments
dark greenish color

51182-514

Andesite tuff
large fragments

51182-515

Andesite Tuff
small fragment
greenish color

51182-516

Andesite tuff
dark greenish color
small fragments

(1:00)

51182-517

greenish color.
small fragments
Andesite tuff

51182-518

Andesite tuff?
greenish color.
small frag?

51182-519.

Andesite tuff?
greenish color
small fragments?

51182-520

Porphyritic
Andesite tuff?

51182-521?

Andesite tuff
greenish color.

51182-522

Andesite tuff
greenish color

A.S. MCARTHUR.

June 22, 1982

Sunny day - G. Walton.

51182-~~0075~~ (1) 503
~~Andesite~~ ? Andesite flow
greyish - greenish color.
very fine grain size

51182-~~0076~~ (2) 504
Andesite flow.
dark gray matrix
very fine grain size

51182-~~0077~~ (3) 505
Andesite flow tuff
greyish color
very fine grain

51182-~~0078~~ (4) 506
andesite ash tuff
very fine grain
greyish color

51182-~~0079~~ (5) 507
Andesite crystal tuff

51182-508
dasite

51182-509
dasite ash tuff

51182-510
dasite tuff

51182-511
dasite tuff

WCS--0299911CB
ATTITUDES
100/40 N

Project MS11	NTS 92 I2	Scale 1:20000	Page 1 of 1	Traverse
Sampler S.M.	Location, Target (words) North Nicola Lake Geological Reconnaissance	Sample Nos 51182-503-511		
Date June 22/82	photo no.	Cert. Nos overlay photo BC 79053 162		

Project	NTS	Scale	Page	of	Traverse
Sampler	Location, Target (words)		Sample Nos		
Date	photo no.		Cert. Nos		

- LEGEND**
- 1 Nicola Group
 - a Andesite
 - b Andesite Tuff
 - c Dacite Tuff
 - d Dacite Flow
 - e Manioc Limestone

- LEGEND**
- INTRUSIVE
 - LIMESTONE
 - DOLMITE
 - SHALE
 - CHERT
 - VOLCANIC
 - CONGLOMERATE
 - SANDSTONE
 - SILT
 - SOIL
 - ROCK
 - PAN
 - WATER
 - GOSSEN MINERALS



Project M511	NTS 92 E/7	Scale 1:20,000	Page 1 of 2	Traverse
Sampler WALTON	Location, Target (words)		Sample Nos	
Date JUNE 25/82	photo no. SWAKUM MOUNTAIN		Cert. Nos	

SANDSTONE
 SILTSTONE

CONGLOMERATE

VOLCANIC

CHERT

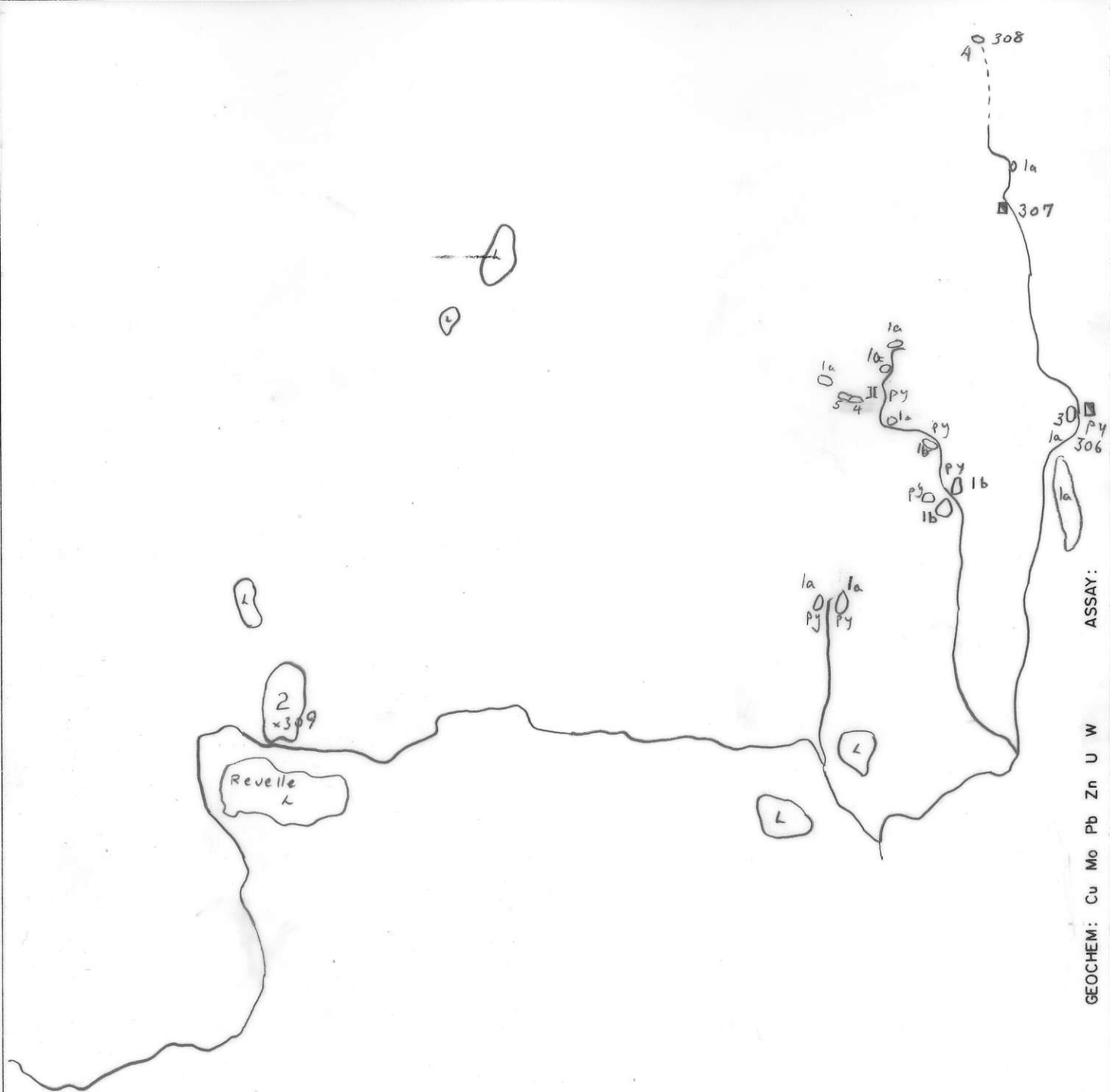
SHALE

LIMESTONE
 DOLOMITE

INTRUSIVE

GOSSAN,
 MINERALS

SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
 DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED --- ASSUMED.....



Key

- py - Pyrite
- (L) - Lake
- - road
- - shaft

LEGEND

- 5 Limestone
- 4 Sandstone
- 3 Rhyolite
- 2 - Gabbro?
- 1b - Andesite tuff - Decih?
- 1a - Andesite flow

GEOCHEM: Cu Mo Pb Zn U W ASSAY:

Project m511	NTS 92I/7	Scale 1:20,000	Page 2 of 3	Traverse
Sampler WALTON	Location, Target (words)		Sample Nos	
Date JUNE 25/82	photo no.	SWAKUM MOUNTAIN	Cert. Nos	

SANDSTONE
 SILTSTONE

CONGLOMERATE

VOLCANIC

CHERT

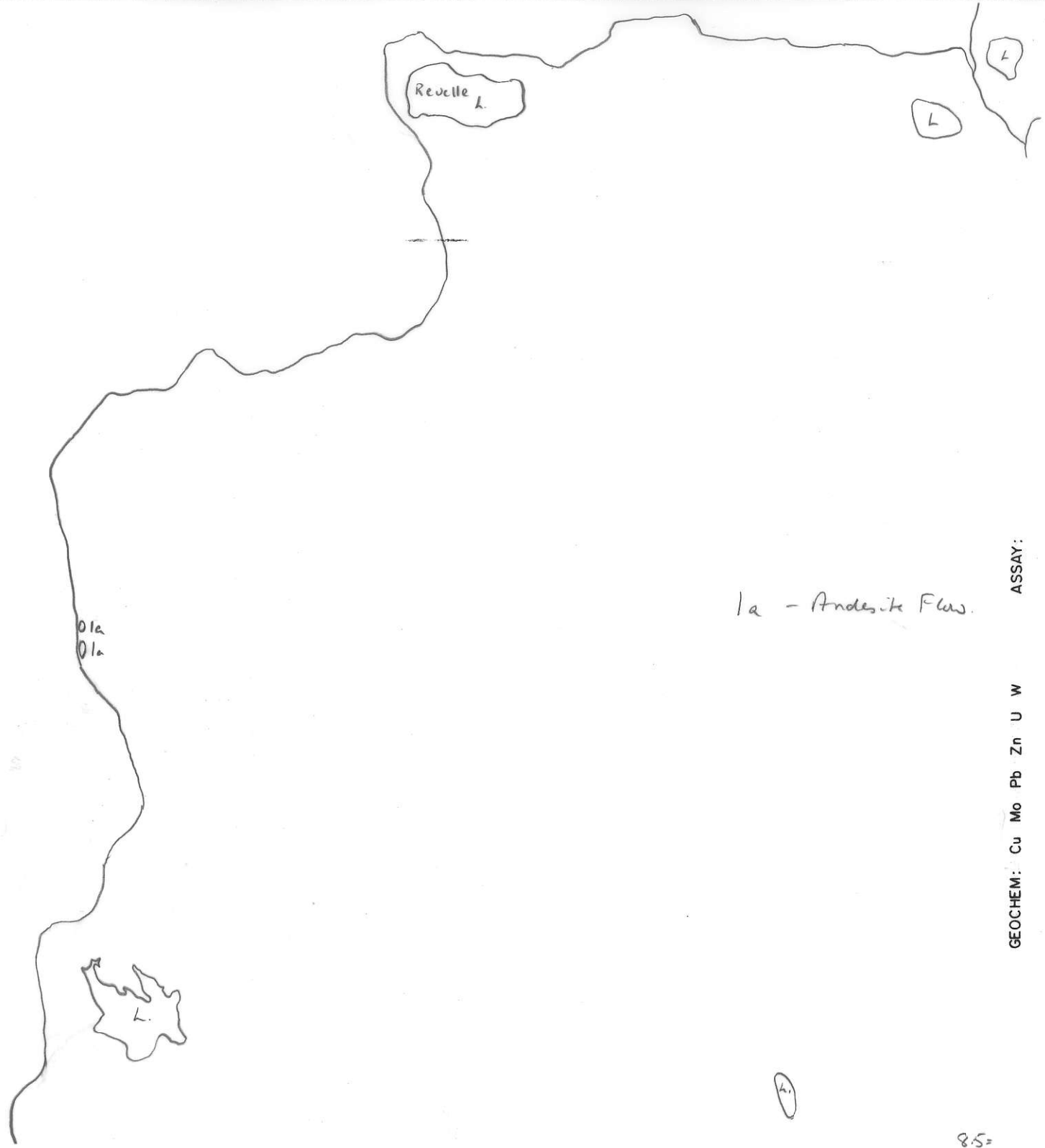
SHALE

LIMESTONE
 DOLOMITE

INTRUSIVE

GOSSAN,
 MINERALS

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GEOCHEM: Cu Mo Pb Zn U W ASSAY:

16.5cm = 32.50m

8.5 =

16.5 = 5.75

8.5 =

Project MS11	NTS 92 I/7	Scale 1:20,000	Page 3 of 3	Traverse
Sampler WALTON	Location, Target (words)		Sample Nos	
Date JUNE 25/82	photo no.		Cert. Nos	

SANDSTONE
SILTSTONE

CONGLOMERATE

VOLCANIC

CHERT

SHALE

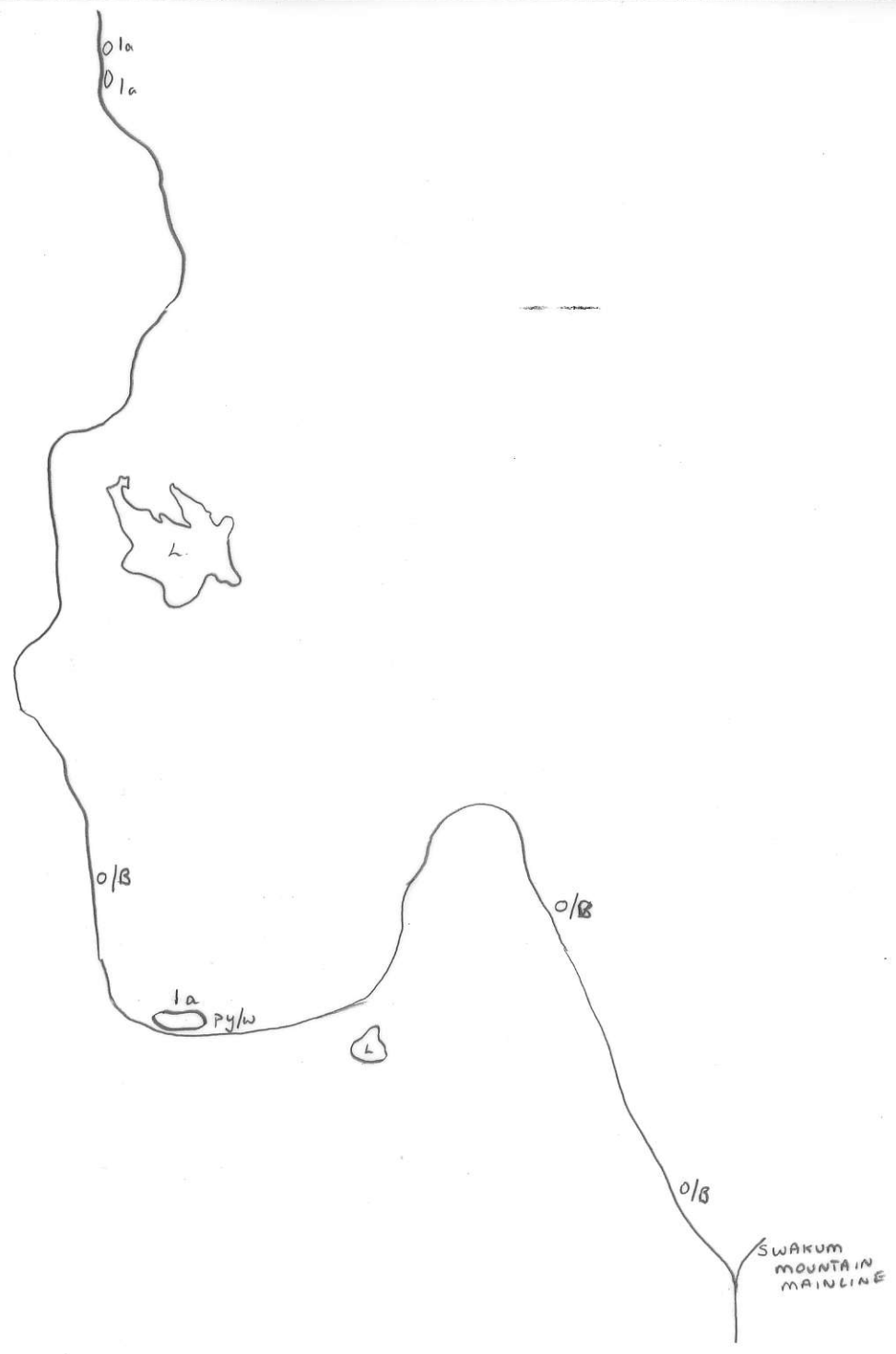
LIMESTONE
DOLOMITE

INTRUSIVE

GOSSAN,
MINERALS

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1a - Andesite flow.

py pyrite
w weak.

GEOCHEM: Cu Mo Pb Zn U W ASSAY:

SANDSTONE
SILTSTONE

CONGLOMERATE

VOLCANIC

CHERT

SHALE

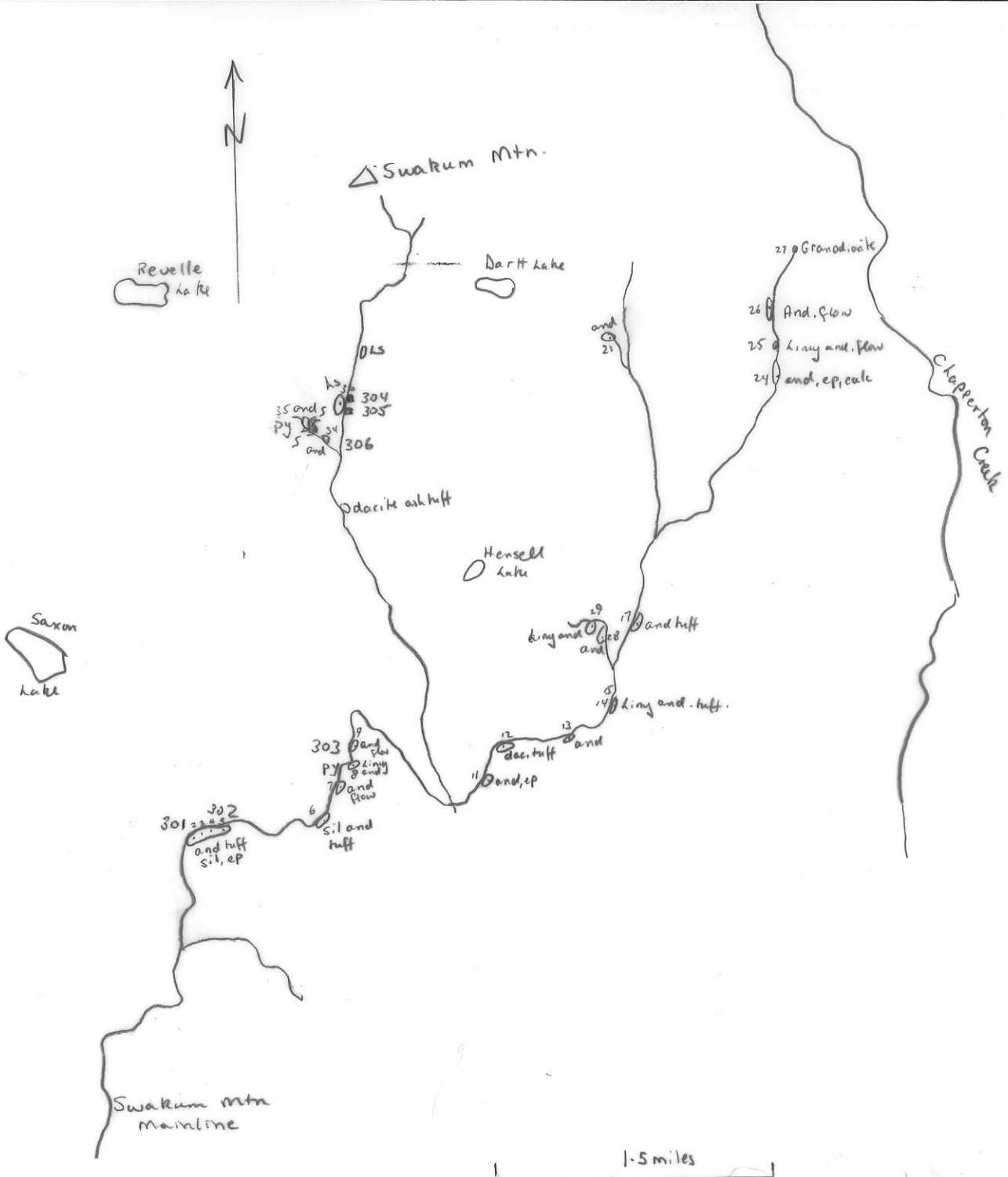
LIMESTONE
DOLOMITE

INTRUSIVE

GOSSAN,
MINERALS

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Project <i>MS11</i>	NTS	Scale <i>1:50,000</i>	Page	of	Traverse
Sampler <i>WALTON</i>	Location, Target (words)		Sample Nos <i>511-82-301-306</i>		
Date <i>June 23/82</i>	photo no. <i>A25864-155</i>		Cert. Nos		

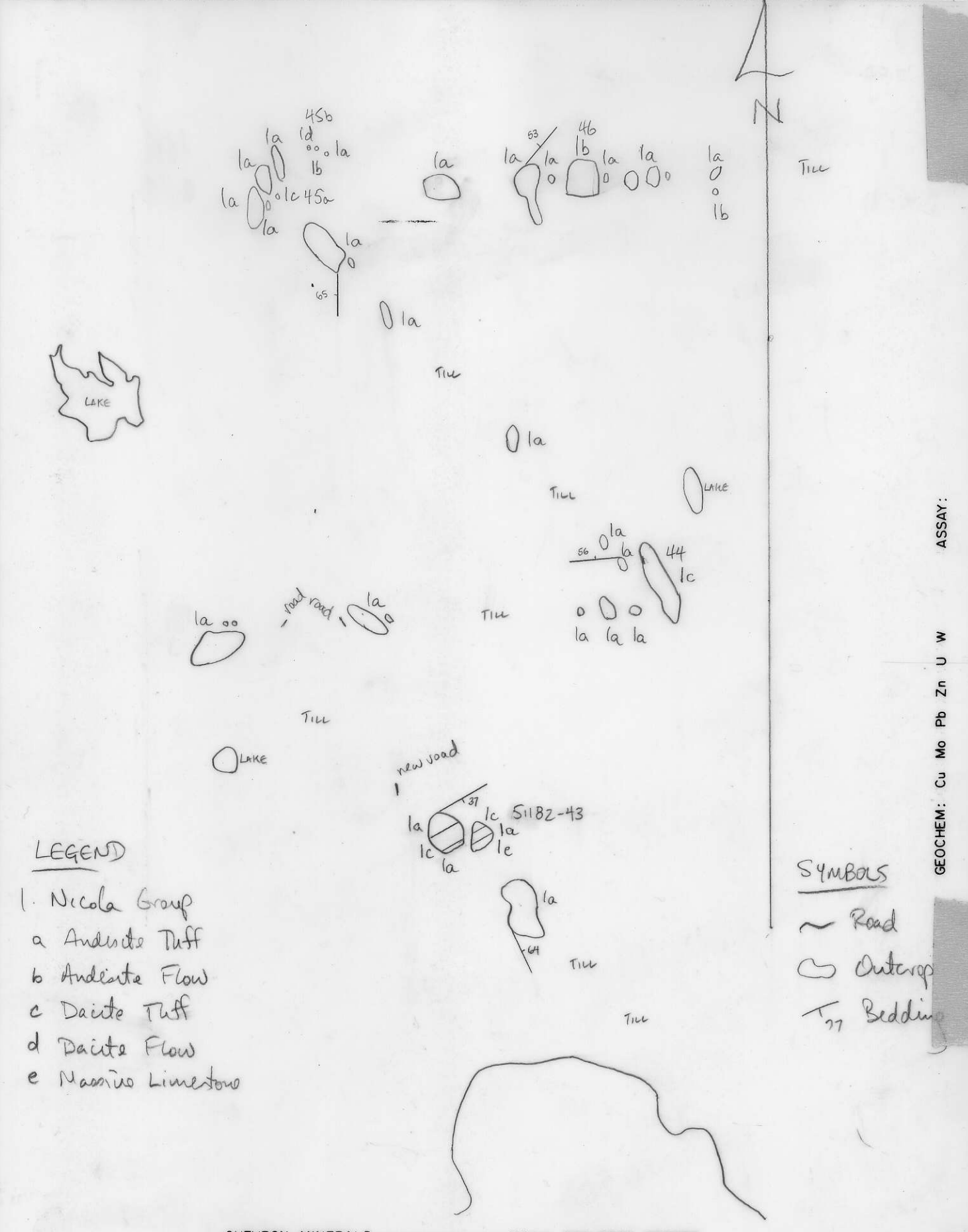


Key

- and andesite
- silt siliceous
- ep epidote
- dac dacite
- calc calcite
- Ls Limestone
- py pyrite
- shaft shaft
- Notes location.

Project MS11	NTS 92-I-2	Scale 1:20,000	Page 1 of 2	Traverse
Sampler BC	Location, Target (words) South Sunium Mtn. - Geological photo no. Reconnaissance		Sample Nos S1182-42	
Date June 28			Cert. Nos overlay PHOTO BC79053=159	

- GOSAN, MINERALS
- INTRUSIVE
- LIMESTONE DOLOMITE
- SILT x SOIL
- ROCK
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE SILTSTONE
- WATER
- PAN
- DELTA
- TRAIL
- WORKINGS
- SAMPLE SITES
- LAT/LONG
- DRAINAGE
- NORTH ARROW
- CONTOURS
- DEFINED
- INFERRED
- ASSUMED



LEGEND

- 1. Nicola Group
- a Andesite Tuff
- b Andesite Flow
- c Dacite Tuff
- d Dacite Flow
- e Massive Limestone

- SYMBOLS
- ~ Road
 - ⊕ Outcrop
 - T₇₇ Bedding




GEOCHEM: Cu Mo Pb Zn U W ASSAY:

Project m 511	NTS 9212	Scale 1:20,000	Page / of /	Traverse
Sampler S.m.	Location, Target (words) North Nicola Lic. Geological Recon.		Sample Nos 51182-512-522	
Date June 22	photo no.	Cert. Nos overlay photo BC 79053-160		

1 Nicola Group

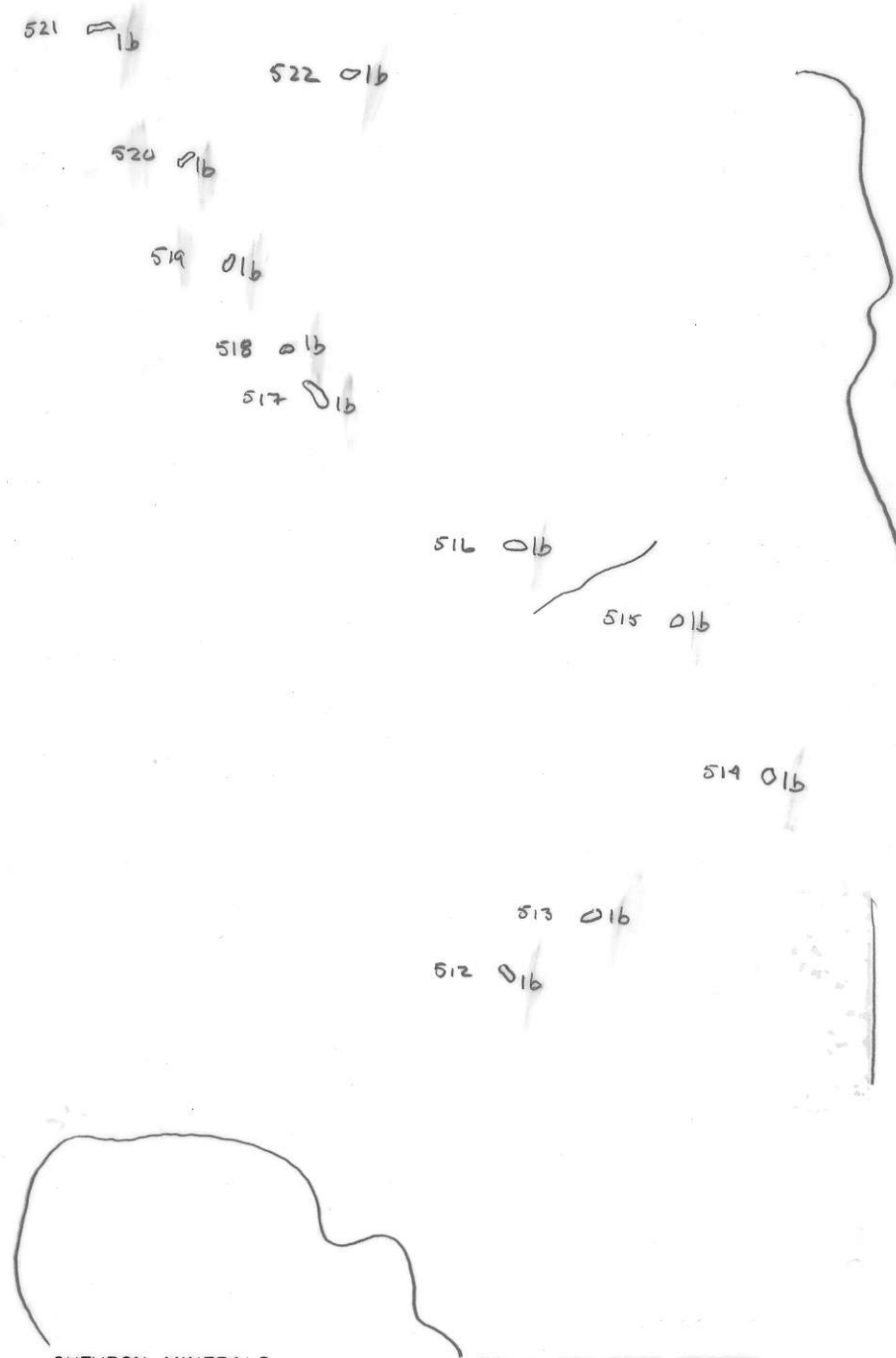
- a Andisite Flows
- b Andisite Tufts
- c Dacite Flows
- d Dacite Tufts
- e Lithic Siltstone

Symbols

-  Road
-  Outcrop
-  Bedding

-  SANDSTONE SILTSTONE
-  CONGLOMERATE
-  VOLCANIC
-  CHERT
-  SHALE
-  LIMESTONE DOLOMITE
-  INTRUSIVE
-  GOSSAN, MINERALS

SPECIMEN SITE A.B...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED --- ASSUMED.....



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

ANDS BSH TUFF? Flow
ANDS LAY TUFF?
ANDS BSH TUFF
of / m → Ep alt

ANDS CRYS TUFF
LAPC
ANDS AMYG Flow

TILL BY alt & vein
Bands
fence
road

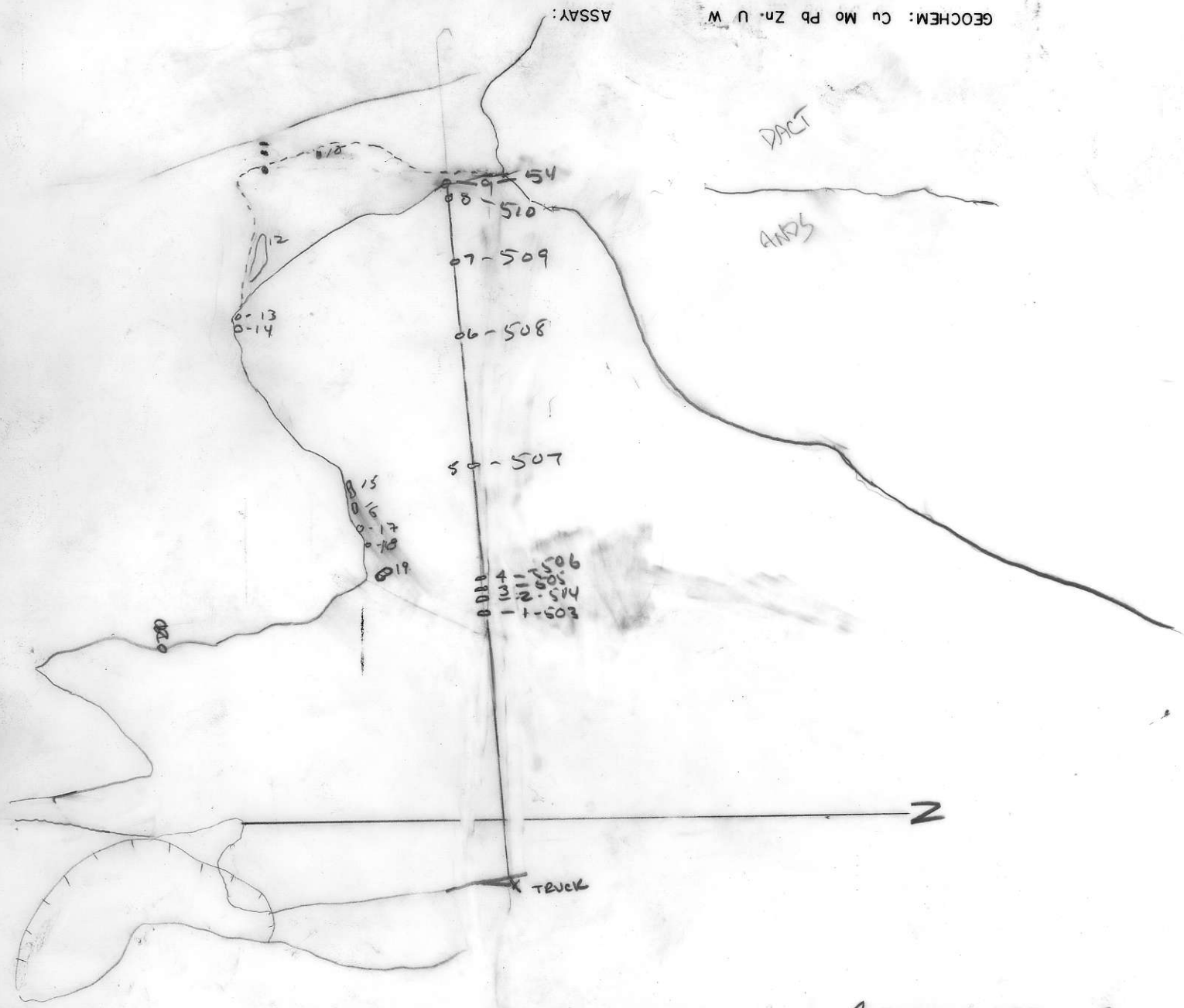
Till

Till

* PARK
TRUCK

271°

BC 79053 163



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

17 14120 dk
 2# 15120 ck

A.S. MCARTHUR
 NORTH OF NICOLA LK
 JUNE 22/82

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED --- ASSUMED.....

SPECIMEN SITE A.B....; DO NOT WRITE ON OTHER SIDE OR USE COLOURS

- GOSSAN, MINERALS
- INTRUSIVE
- LIMESTONE
- DOLOMITE
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- SILT X SOL.
- ROCK
- PAN
- WATER

GOSSENS MINERALS
 DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED— INFERRED-- ASSUMED.....
 VOLCANIC SPECIMEN SITE A.B...: DO NOT WRITE ON OTHER SIDE OR USE COLOURS
 SANDSTONE SILTSTONE
 CONGLOMERATE
 CHERT
 SHALE
 PAN WATER
 LIMESTONE DOLOMITE
 INTRUSIVE
 GOSSENS MINERALS

W.S.C.-0-29991138
 ATTITUDES
 (100/40 N)

GEOCHEM: Cu Mo Pb Zn U W
 ASSAY:

A.S. McARTHUR
 NORTH OF NICOLA LK
 June 23/82

Project	Sampler	Date	NTS	Scale	Location, Target (words)	photo no.	Page of	Sample Nos	Traverse
								Cert. Nos	

