DATE: FRIDAY SEPT. 17, 1965.

TRAY: M. Ladine & C. Godwin

LOCATION:

020542

PHOTO: A12282:54

WEATHER: CLOUDY.

CG 202 soil sample in depression — organic silty soil

Δ 202a 9.0 C, 20'x10'
chlorite gst (phyllitic)
g. S_2 11/20 80 f. S_3 178/65

CG 203 Trickle out of semi-shaped area — sandy silt

CG 204 Soil from slope — elk bone sample.

CG 205 Trickle near 203 — sandy silt

CG 206 Silt. Grass frost boil. 0. just above 206 good 10'x4'
phenfels SPEC — minor dia. phyp. along S_2 V.G. S_2 11/25 32
g S_3 70 147

CG 207 Soil sample.
Δ 207a = 0.C. phyl. gst
Δ 207b Altered, rusty Monfels, locally graphitic. Containing up to ~2% disseminated pyrite SPEC.

O.C. has white & yellow encrustat
on it. Crushed ¼" thick qtz
vein 11 to S_2
Locally isoclinal drags observable

g. S_2 24/11 94 Lin fold 022/5
g. S_3 138 E. S_3 11/75

CG 208 Brown soil in gulley
O.C. SLP & ATP
altered hornfels. - White
encrustation common. Yellow
not seen SLP.
g. S_2 11/35 100

CG 209 = 208 + 850' Brown soil.
Flat slope - overburden >30' ?

CG 210 = 209 +500'
SOS 209

CG 211 = 209 + 400'
Brn sandy soil from slight
depression.
Rusty platy hornfels & dissem.
pyrrhotite SPEC.
Ex S_2 11/24 105 g S_3 70/138

OC as a 20'x5'

CG 212 = 211 + 600'
Sample sandy silt from trickle springing from hillside

CG 213 = 212 + 300'
Trickle; sample: sandy silt

CG 214 = 213 + 500'
Sample: brown soil

CG 215 = 207 + 500' Organic silt Dry Creek bed

CG 216 = 400' S of 215 Org. silt, Stream

CG 217 = 800' S of 216 Org. silt Marsh

CG 218 = 300' N of 217 Sandy silt Trickle

CG 219 = 500' NE of 218 Sandy humic silt Trickle

CG 220 Zero sec stream
Sample: sandy silt

CG 221 Brown clayey soil in slight depression before alpine spruce tree line.

CG 222 Greenish brn clayey soil between two spruce shrubs on bluff.
222 = 221 + 500'

CG223 = 222 + 500'
Burn soil. from alpine fir area

CG224 = 222+600'
Soil from R.L. slope S/ck.

CG225 = 2 cm see ck.
Float: graph. schist
rnded granitics
granitic porph c 1½" long
K. spar phenos about 20% of rock
Sample silt from bank, Schists 07

CG226 = Soil from L.L. S/ stream

CG227 = left fork ~ 200' above jcn

CG228 = Rt fork about 200' above
jcn. silty sand.

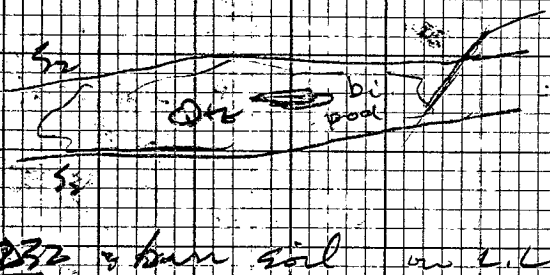
CG229 = Burn soil from L.L. in
Alpine fir area.

CG230 = Below jcn.
Sample: sand.

Δ230a on R.L. S/ck
1.0 C. area.
Bottom 20' S/ O.C. (from creek level)
= f.gr. granite? Spec.
Mt contact (20' up) local area
of m.gr. leuco granite.

20' to 50' qtz biotite schist (gneiss?)
[3 sp. see. relict]
Ex S_2 in schist 24/150
q S_3 in qtz 72/05

A230 b q.v.c. 20 x 5'
50's biotite schist (gneiss?)
Ex S_2 21/135 weakly 11/145
Irreg. crust stained white qtz lens
(? some bi-rich segments) // to S_2 lense 3' x 1½'
thus



CG232 = barn soil on L.C.
CG233 = 232+500' barn soil
CG234 = 233 +500' barn soil
CG235 = 234 +500' gayton soil
CG236 5 cu sec mica schist
Silty sand + mica soil

Δ2362. Ex O.C. area
Q+z biotite gneiss
well foliated, locally platy, but
not as schistose as before
V.g. S_2 25/0 g. S_3 67 143

CG237 Trickle bed.
gravelly soil

CG238 = Main creek upstream from 236
Sample: silty sand.

Δ238a g. O.C. area. 50S bi qtz.
f.o.c. 10' x 4'
g. S_2 75/8 65 f. S_3 80 140

CG239 Brn soil.

Δ239a qtz lat. HORNFELS.
Quite calcareous. 2 Spec.
Ex S_2 20/65
Lin folds 230/10

CG240 R. Fork - Trickle
Organic silt.

CG241 L. Fork Trickle
Sample: sandy silts

A2412. Ex O.C. area
q. O.C. 30' x 10'

Ex Sz 15/35

locally very calc hornfels
locally with diopsides
Hornfels rusty & locally with yellow-green stain SPEC

NOTE: A2401a is geographic centre of mag anomaly.

Co 242 - Brn gravelly soil. From depression

A2422a Graphitic schist.
Somewhat brecciated SPEC.
Rusty weath.
Ex Sz 11/23 SW 133

Co 243 Depression clayey soil.

Co 244 Grey brown clayey gravelly soil.
Brown fill of 2 depressions.
Near flag DC-2

A 2442a rh 403 242a only
not as graphitic.
Crushed qtz v. are boudined?
Thus

qtz pods 5" to 1 foot

Ex S_2 ↗20 176

p. axis of boudins? → 115/5

g. S_3 ↗155 g. S_3 ↗20 80

O.C. rusty weath. locally & locally stained with white calcareous (fizzes) bloom.

CG245 gravelly silty clay from L.L. bank of ⅓ cu sec stream.

O.C. on L.L. Rusty weath graphitic hornfels schist. Occ. dissem. pyrrh.
Ex S_2 ↗39 62

O.C. on R.L. generally similar only not as graphitic

Occ. rusty weath sericite gtz biotite hornfelsed? schist
Abundant gtz veins apparently boudinaged along S_2
Ex S_2 ↗25 135

CG246 another lunar depression on R.L. of Ch. Gravelley greenish brn soil.
Float mainly graphitic hornfels schist

D246 slightly rusty O.C. SOS
O.C. on R.L. of CG 245. Ex S_2 ↗32 80
g. S_3 ↗130

CG247 = Sample warm creek
flow, 2 cm seen.
Sample silt

Δ247a Ex. O.C. area
qtz sericite schist
Ex S2 V 32/155 Disc crumples on S2 075/20
q.S2 quartz 65/113

CG248 = organic black soil
Grass depression

Δ248a 50m Δ247a
Ex S2 39/133

CG249 = org soil from
depression Thuya Lake camp

249a on top of knoll
Ex S2 V 26/107
mica slightly graphitic ± sericitic
chlorite schist.

CG249 vicinity
Ex S3 67/165 q.S2 25/120

Summary

① Rusty areas on ridges has dissem pyrrh. & is quite limy. — flanked on E by Bigneiss & possibly granitic.
Flanked on W by Ss & lse Gphs.

② Lst may
  ⓐ localize geochem?
  ⓑ be favourable for min?

③ Several kinds of gpt @ 202a & 207a

DATE. SAT. / SEPT. 18, 1965.

TRAV. M. LADUC & C. GODWIN

LOCATION:

PHOTO: A-22282-54.

WEATHER: Raining, brief sun in aft.

CG 250 12x O.C. area SJ sericite schist.

Rx Sz 29/110 trends bun ↑015/25

Samples: Brn sandy soil

CG 251 - bun soil @ end SJ depression from camp.

CG 252 - bun soil in deep depression.

O.C. 100' to NSJ Δ Sz -

Sz 26/160 SJ-3 38/

Hornfelsed schist, locally rusty

CG 253 - Sample: sandy soil = 2512 + 500'

M 253a = 200' SJ 253

Graduates hornfelsed, limy schist.

Rusty weathg. Qtz lenses

E-W Sz 25/110 SJ-3 40/

CG254 = 253+500'
Silty soil sample on E.L.

CG255 = 253 +500'
Grayby soil sample on R.L. - extension of marked photo depression.

256 = 254 +500'
Clayey soil from frost boil.

CG257 = 256 +500'
Brn soil in depression.

CG258 = greenish brn soil -
= 257 +1200'

CG259 1/5 on sec stream in willows
Sample: silt

CG260 = 1/5 on sec stream in willows
Sandy silt.

CG260a = Biotite gneiss (schist?)
Spec. Good o.c. to N of 260
Ex S_2 40 95
q. S_3 80 170

CG261 = 3/4 on sec.
Sandy silt.

2618a = 261+500' down valley
O.C. on R.L.
Sericite schist
Locally slightly graphitic
g.s. 24/130

CG262 = main creek below forks
Sample Sandy silt

Δ262a = 100' on L.L. of 262.
P.O.C. for altitudes but area
is 962 sericite schist

CG263 = 262+ @ 800'
Clayey soil on slight drainage
on L.L. of main creek.

CG264 = 263+ @ 700'
gravelly soil from dry trickle
bed & willows on R.L. of main creek.

Δ264a = 264+75'
P.O.C. 15' x 8'
Rusty weathered bedrock
Sericite schist
g.s. 3/92 g.s. 70/80

CG265 = 264+ 2/5'
Dry trickle bed on L.L.
Sample sandy silt.

CG266 = 265 @ 500'
Soil type as above
Sample silty sand.

△266a on R.L. of ck across from 266

Large O.C. area.

SPEC Hornfels? graphitic sericite schist.

q. S_2 115 Ex S_3 137

Lensing qtz veins ~10% of O.C. ∥ to S_2

CG267 = Trickle gulley on L.L.
= silty soil.
= 266 + 550'

CG268 = Main creek beside CG267
Sample: silt.
50% O.C. on R.L. across 266a

CG269 = 268 + 450'
Sample: sandy soil
Dry Trickle / red & willows

CG270 Uppermost sample on main ck
Sample: silty sand.
Flow - ~~est~~ Rose Ck, ~50 cusecs??

AP270a SPECS.
Ex O.C. area 100' x 25'
Hornfels? Hb? Bi. schist spec.
Layers of (about ½ of exposure)
foliated marble - spec.

Ex S_2 76 92 q. S_2 100

TRAV DOWN RIGHT LIMIT, 11

CG 271 = 6 chain sec ch.
Sample: silt

Δ271a Ex O.C. on L.L. of main creek @ 250' below 271
300' Δ270a exactly
Mixed Sh very contorted.
Ex Sh 44/42 95 95 Sh 170
Spec: Hornfels bk. mtd, mafic mat & pyrite along Sh.

CG 272 = CG 271 + 700'
Sample gravelly clayey soil.

CG 273 = 272 + 500'
greenish tan soil

CG 274 = 273 + 550'
Friable f. organic silt.

CG 275 = 274 + 500'
org. silty soil

CG 276 = Main creek
= Sandy silt

CG 277 = 276 + 500'
Sample: silt from dry friable bed.

N.B. Dupl. CG 279 = greenish clayey soil
Sample just above permafrost area in willows, spruce & birch area
= 276 + 700'

CG278 = 277+700'
Gravelly soil from large fan-plain.

CG279 = 278+385'
Dry ck bed from large strea
Sample: silt,

CG280 = 279+700'
Dry trickle bed.
Chemical clayey silty soil.

CG281 = 280+600
= Org Rich gypsoil from high area
Overbounding prob. > 25'

CG282 = 281+700'
= Depression
= sandy, silty soil.

CG283 = 282 + 575'
Sample clayey gravelly soil.

CG284 = 283+600'
Sample: sandy brn soil.

CG285 = 284+400'
Sample —
G.C. just above
Contorted hornfels &
Phyllonites assoc. with
Fault areas.

CG 286 = ~~285~~ directly below 285
on main creek
Sample, sand

CG 287 = friable near 286 on L.L.
Sample: clay

L. L. side = deep drift?
Δ 287 = glacial drift mostly.

CG 288 = 287 + 300'
Depression
Sample: sandy soil

CG 289 = 288 + 480'
Sample: sandy silt
— friable — frost boil.

CG 290 = 289 + 500'
Sandy soil

CG 291 = 290 + 500'
greenish clayey soil.

CG 292 = 291 + 500'
greenish clayey soil.

CG 293 = 292 + 500'
greenish clayey soil

CG 294 = 293 + 500'
greenish clayey soil

CG 295 = 294 + 530'
greenish clayey soil

Trav. = 60° from 286

A295a graphitic schist SPEC.
BOS2 10 40
BOS3 9 1464
77

CG296 = 295 + 500'
clayey soil

CG297 = 296 + 500
clayey soil

CG298 = 297 + 200'
Brn soil
Depression below O.C.

A298a: g.O.C.
gtz sericite schist to graphitic
g.S2 sub horiz.

CG299 = 298 + 500'
clayey brn soil.

CG300 = 299 + 450'
Brn soil.

CG301 = 300 + 450'
Brn soil in Aspen Grv.

Marked pt = 301 + 175'
(ridge top)

SUMMARY.

SEVERAL FEATURES NOT NOTED.

① Large O/Crop above Ca 279 also light coloured from dist. Prob. white from bi-schist, hornfels, marble association (noted on mosaic).

② Granite (discernable by black blocky talus) - hornfels contact slightly recessive (as noticeable behind Δs Ca 279 to 285. (sketched on mosaic).

GENERAL

① Last thrust of bi-schist & hornfels @ W. edge of traversed area.

② Ss & minor? Synclinal in central part of area.

③ Deep drift on W'ly facing slope mined E of river to W. of traversed area.

DATE: SUNDAY SEPT. 19, 1965.

WEATHER: SUNNY & cloudy

TEAM: N. LADUE & C. GODWIN

LOCATION:

PHOTO A 12282:54

CG302 = R.L. of Ck flowing S'ly from camp.

Sample: Brown soil.

Δ302a qtz sericite schist

Ex S2 22/135

CG303 = 302 + 350'

Brn soil slight depression

CG304 = marked depression

= on geographic axis of EM anomaly

= Sample: grey silty soil,

Δ303a 50s 302a only here is graphitic schist. SPEC.

Ex S2 41/18 131

CG305 = 304 + 500'

Gray-brn soil.

Δ305a = 305 + 350'

20' O.C. 20' x 50'

Graphitic schist, limonite stained & calcareous blebs

Ex S2 41/18, lin. cumpleon S2 1015/26 193 78 115

CG 307 = 305+400'
Sample: silt from frost boil.

CG308 = 306 + 330' slight willow depress
Sample: clayey soil.

CG309 = 308 + 500'
Sample; Brn soil
Float 50% graph. schist

CG310 = 325' downslope from CA30
Edge of mag anomaly
Sample. Brn clayey soil.

CG311 = 310 + 400' downslope.
Clayey soil & schist frags.

CG312 = 311 + 100'
Moist depression.
Sample: brn soil
△312a = 312 + 60'
P.O.C 5' x 2'
Definite oc on knoll but attitudes?
SPEC. Graphitic qtz sericite schist
P.S$_2$ 38 95 P.S$_3$ 15

In specimen isolated folds of specs of pyrite.

CG313 = 312 + 350'
Spec: greenish clayey soil
SLP & atp - graphitic schist
flakes as float, common.

CG 314 = 313 + 175'
Depression
Sample
O.C. nearly good O.C. 5 ft +
excellent graphitic schist
S1 EC. Ex S2 11/20 135
Foli 120/10
Δ 314a = 314 + 150'
O.C. Graphitic schist.
S2 11/20 70

CG 315 = 314 + 200'
Sample gravelly clayey soil.

CG 316 = 315 + 240'
Trouble in deep gully
Sample clayey soil
Δ 316a Ex. O.C. and
Several drainage trends parallel to Ex S3 80/175
Generally a graphitic schist with abundant chlorite S1 EC
S2 very contorted g. 12/103

CG 317 = 316 + 115'
Drum // to S3
Sample: brown silty soil

CG 318 VERY RUSTY GRAPHITIC SCHIST FLOAT — SLIGHTLY HIGH S.G.? SPEC. — SAMPLE - dayey ss

CG 319 SAMPLE: gravelly soil.

CG 320 SAMPLE Brn gravelly soil

CG 321 SAMPLE: sandy brown soil.

CG 322 = Willow marked dry gravelly bed
Sample: gravelly sand.

Δ 322a SPEC. Phyllitic qst.
Ex. bluff exposed.
Ex S_2 $\frac{11}{30}$ 130 q. S_3 $\frac{73}{}$ 155.
Note marks centre of mag without EM anomaly.

CG 323 = depression
= clayey soil.

CG 324 = organic silt.
Nearby O.C.: slightly graphitic qtz-c. schist
Ex S_2 $\frac{11}{30}$ 163

O.C. would project under 322a

CG325 greenish clayey soil

CG326 = sand soil from dry trickle bed in coliform rain.

O.E. Ex in, several area. sol. 324

Ex S_2 $\frac{11}{35}$ 115 Ex S_3 $\frac{77}{20}$ Ex S_3 $\frac{62}{10}$ 131

CG327 = clayey soil

CG328 = dk brn sl. organic soil

NOTE ON M.L. SPEC.

ML102 - dissem. phycobiont in humfols. solns.

ML107 Qty bi. solns

ML121 Locally living bi. qty solns

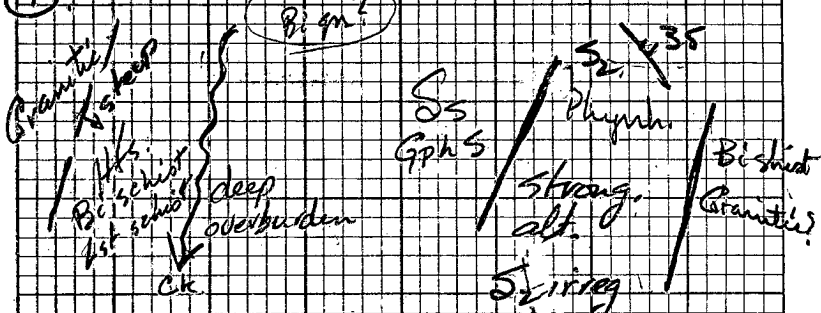
SUMMARY

SPECIMEN LOG

#	DESCRIP	DING	CALC	ALT.
203CG.	Sl. calc. lst.	.05	✓	—
207b	Alt. graph sch.	.05	×	Rusty
211	Alt. bisch. sh.	0	×	Rusty
215.	Hornfels & phyn	.1	×	Rusty.
230a	granite m.g.	0	×	—
230a	f.g. granod.	0	×	—
230a	Bo. gneiss	0	×	—
253a	Gph S.	0	calc. alt.	—
236a	Bo gneiss	0	—	—

Summary of A12282 SA

(1)



(2) Most attitudes N35 but irregular to the S of the area

(3) Rusty area most interesting

DATE: TUES. SEPT. 21, 1965

WEATHER: High light cloud.

TRAV. GODWIN

PHOTO: A12231-285.

CG329 Mammoth 300' above camp — 150 cu secs? est. Sample: sandy silt.

CG330 Rt. fork — ~20 cu secs. Near camp ~ 300' above jct. Sample: sandy gravel.

CG331 About 400' below jct. on main creek — Sample: sandy silt.

TRAV. UP RT. FORK ON L. LIMIT.

CG332 silty soil from depression

CG333 = Gravelly grey soil from base of overturned tree

= 332 + 500'

CG334 = 333 + 525'

Dk brn soil from depression

CG335 = 334 + 570'

Organics sandy soil — slight depression

CG336 = 335 + 575'

Greenish clayey silt (gravelly)

CG337 = 336 + 440'

½ cu sec sample silty gravel.

CG338 = 337 + 850'
Organic silty soil
Some permafrost on slope

CG339 = 338 + 200'
gravelly soil from depres.
Float: SS. & chert?

CG340 = 339 + 700'
sandy soil, depression

CG341 = 340 + 500'
Brn, slightly sandy & organic, soil
Float: greenstone - vfg 8

CG342 = marked depression
= 341 + 600'
Float S.L.P.: greenstone - vfg 8
MP: Hornfels - spec - chert?

CG343 = 342 + 800'
Sample: gravelly soil
Float: chert? as above @ 342

CG344 = 343 + 500'
1/8 cm vee stream
Sample: silty gravel
Float: Hornf. & fglc & diss. Pyrite!
Shales - vee.

143
CG345 = 344 + 715'
Sample: org. dk brn soil

CG346 = 345 + 500' Dry tundra bed
Sample: wet silty gravel

CG347 = 346 + 710'
Trickle & willows
sample: sandy silt

CG348 = 347 + 500' silty soil from willows area

CG349 = 348 + 500' silty soil depression from hill

CG350 = 349 + 515' silty soil

CG351 = 350 + ~500' + (last count)
clayey soil

CG352 = 351 + 600'
Spruce stream w/ L.L.
sample: silty gravel

CG353 = 352 + 600' on L.L.
silty soil

CG354 = Main creek
silty sand

CG355 = R.L.
Brn silty soil

CG356 = 355 + 260'
Trickle silt

CG357 = 356 + 500'
silt ½ w/ silt

A357a = 357 + 525'
Ex. o.c. well up on R.L.
60° 40' X 35
F in basalt? SPEC - MARGINAL?
Rx 53 | 53, 53
70 | 63

Several 1st stringers // to S_3
from 1/4" to 5"
Locally (a) small 1"-3" rusty patch
(b) calc. bloom

16

CG358 = 357 + 900'
1½ cu sec.
Sample: organic sandy silt.

CG359 = 358 + 400'
Greenish clayey & silty soil.

CG360 = 359 + 800'
sandy brn soil.

CG361 = 360 + 300'
brn soil from centre of willow fan

CG362 = Main creek below 361
Sandy silt

A362a - @ distance on R.L. ridge
a/c area of rel. massive bedding,
slightly rusty & pinks. v&c.
Dip to NE planes - possibly flow? -
about 40, 165

A362b - ridge on L.L. @ distance
looked like same rock as 362a.

from several locat.

CG 363 = composite sample of silt & fibrous debris from flats 1 to 2 cu secs

CG 364 = edge of fan @ 2150' 1/3 cu sec trickle sample.

CG 365 = 364 + 530' gravelly Depression: clayey, sandy soil

CG 366 = 365 + 500' Sandy soil

CG 367 = 366 + 1100' - depression. silty soil

CG 368 = Below 2100' - sample: coarse sand & silt.

CG 369 = Trickle + 368 + 425' silty sand.

CG 370 = 369 + 325' Trickle - silt (organic)

CG 371 = 370 + 530' Depression, Grey sandy soil

CG 372 = 371 + 390'

CG 373 = 372 + 420' sample: clayey, gravelly, sand.

CG 374 = 373 + 100' & directly drains to main creek. silty / sand.

CG 375 = 374 + 375 living (willow on R.B.) trickle Sample: coarse sand

CG 376 = 375 + 500' Organic, sandy silt abundant [illegible] Robust Chiro

18

CG377 = 376 + 750' near top of ridge

CG378 = 377 around wooded hill from 377
Sample: gravelly greenish clayey
Abundant - platy sl. plates of
white qtz float ATP

Δ378a q.o.c. 20'x10'
= 378 + 95'
altered vole. Unit B? Speer
Locally phyllitic
qtz 52% 45% v.q. 3% ~~106~~
Abundant carb. stringers.

CG379 = 378 + 500
Brn soil
Abundant black slate float
Spec.

CG380 = 379 + 750'
Sample: Brn soil
Float: SLP mainly
graph sh & bl. slate.
ATP fine gr. dark
greenish grey basalt 50%
Δ357a.

Δ380a @ ridge white sl
rusty altered zone as seen
South Δ380.

CC 381 = 3350 + 800'
Samples during burn gal.

CC 382 = 381 + 000'
Run soil
ATP 3450 FLOAT 505 unless
blacker slickensides absent.

Summary

① Pushed for time ∴ little geological info

12	0
28	500
29	500
30	250
31	500
32	500
33	250
34	500
35	250
36	350
37	500
38	400
	4600

265 - 210
266 - 500
550
450
1710

288 - 300 -
450 -
500 -
500 -
500 -
500 -
500 -
550 -
500 -
400 -
200 -
400
450 -
301 450 -
175
678