802847 J. R. Henderson's 1990 Sulphurets Notes

Station Date

Thurs 06.09.90 0730 alt 28.15-1968'
Kerr Camp 8th day

West of Camp N side of Mitchell Sulphurets in frgt

Magnetic Hydty related sp, tgrs (possibly deposits) Zoning is limited from source

Mo high grade 60-100 m from source generally in high sulfide systems

Cu may be later

Here Mo & Cu zones are sharp contacts bd thinly mineralized & fault/fracture apposed (also very different ~~zones~~ rock in Mo & Cu zones)

Shear Zone 340/50 2m wide fol Zones 5 km wide empl between

Shear fabric 050/25 in shear cut vole?

12th Fol Gr 11-12 Mag & bod w/ Mineralized flakes in 3 rnd horizon in dome

Imminency Pelbob proximal mineral sed & vole. Cgl at edge of sequence trav down into altered zone w/ Copper (Cpy/Malachite) in Pley monzonite some diss moly also
Dark Lot purply bedded, shear zones, narrow fractured shears, some very carbonate veins
Lots in lower slope below Cu zone

Station Date Mark

TRAVERSES out of Kell Camp

Bingbas Creek Adm Topo map 104B/9 (John Ruks)
photos
9-268, 269
10-284, 285

Mitchell-Sulphurets Ridge Shear Zone

Get 1:250,000 sheets 104B (Iskut R.)
104A (Bowser Lk.)
most of mapping in 104B/9 and 104A/12

Eskay Creek Mine 2km E of N end of Tom Mackay Lake

Rocher Samples
Separate altered host rock & vein samples
Try get unaltered material
Pick samples for cutting slab
GHSA-XX-LC sample numbering

Fri 7 Sept Fogo in Camp

Joint Venture Partners in Sulfurets Area

Placer-Dome / Kerr

Newhawk Joint Venture (Cominco, Newhawk, Mandrake Mines, Ltd, Hecla)
Bruce Jack Lake

Itinerary

Date	Camp/Place
5-15	Placer-Dome / Kerr camp
15-19	Prequest Iskut camp
19-21	Golfine Eskay Ck Camp
21-25	Victoria
25-26	Vancouver
26	OTTAWA

Anderson & Thorkelson Cons Res 90-1F p 131-134
Mesozoic Stratig & Min Deps in Iskut R. map area

Age	Unit	Comp	Deposit
M-U Jur	Brouser Lk Gp	Black Shale West → Copper Creek	
L-M Jur	Salmon R. Fm	ANDS → Pillow Sh + LS, Black Shale 'pyrite beds'	Eskay Ck in pillow BSLT
? Bajocian			
Weyla Belec			
Bacinnites			

W

Hazelton Gp — Mt Dillworth FELS TUFF; Betty Ck Fm GSL-WKE; Unuk R. Fm ANDS tuff } Sulfurets Formics

Upper TR — Stuhini Gp — W → E; INT-MAFIC VOLC → GWKE Silts

Station Date Map

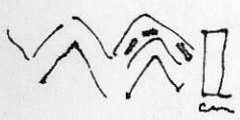
Sat 8 Sept also stratus
Joins to Mitchell Ridge in 205

Photo 12-327
7:05 AS 00 Set out to top of Ridge between Mitchell
& Treaty Glaciers

Ash flow tuff Rhyolite white feldspar
fes in eye (devitrified opbsidian lits)
angular white fragments (andesite in Lt Gm
matrix with white MT DILLWORTH HOR.
(Str 90-3 of Riedlow) 2160 m

Spec 260/83 = axial dip
joint = 178/30 = ORIEX?

S_0 = 327/32
S_1 AXPL chevron = 220/75 } FDAX calc = 220/32



R12 f26 chevron folded
flattened fiamme

EV·B = 236/25 AXPL 210/85

FDAX = 210@30
R12 f27

another S_0 = 278/26

f29 in block of white RHYOLITE in welded tuff

f30 Rod & Mag. vein to S across Mitchell Glacier
w/ Red Gossan in Bound.

Under Gain by Maroon Tuff Bellyroch
00-2 not Reint no fabr
S_0 = 240/40 in Bellyroch w/ [illegible] of lineated structure
pebble dyke ⊥ bedding in maroon & lavender beds

f31-32 fissured vein & So in footwall w/ So ∥ shear in maroon bedded tuffs graded R way up
S_0 = 303/8 } X = 184@16
Vein = 008/78
fibers = 107@10
Hgwall moved east
fibre steps indicate Hgwall to E @ 05
So X vein = 008/@16 E vergent

f33-34 fluidized beds & dewatering dykes!

extension/shear fibers vein! in maroon bed

f35

OK for flex slip
BP vein 020/75
CH+Qz fibre 195@60

S_1 = 1 215/70 } $S_0 \times S_1$ = 025@24
S_0 = 320/25 } SW vergent

So locally 350/60

elevation = 2110m below cliff west of drop-off
at cliff edge S_0 = 350/80 } $S_0 \times S_1$ = 130@48
S_1 in f.g 55 = 060/50 } NW vergent

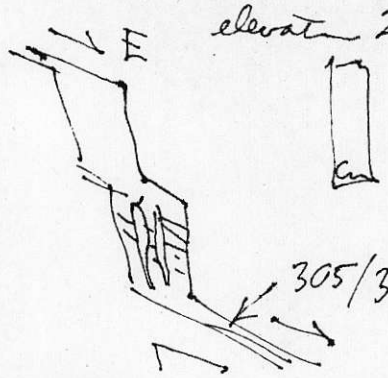
f36 graded maroon & lavender bed

f37 vein N cliff to E & treats glacier w/ MPH
f38 fod in kind vein West down B.Fach Glacier

Extension shear vein ?11 S_0 = 330/21, fibre 290@5
S_1 = 235/86 E Hgwall east
$S_0 \times S_1$ = 052@22
SE vergent

Station Date

Ø1501
Ki3 fi-2



elevation 2070 m s-west side cliff

maroon volcanic agglomerate/tuff breccia
coarse lapilli to 2 cm dia.
very massive bed > 20m thick

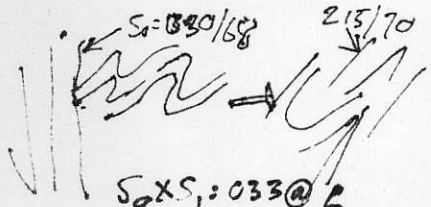
30m below S_1 frac 025/90

Ø1502
2015m Bottom vole breccia - poss near vent
some clasts 30×2 cm must have been very soft when they landed

alignment of clasts = S_0 = 028/85, 050/75
frac S_1 = 020/75

20m down slope Shear zone w/ drag folds
AxPL = 215/70
FD Ax = 020@15

S_0 = 030/68



$S_0 \times S_1$ = 033@6
NW vergent

West vergent

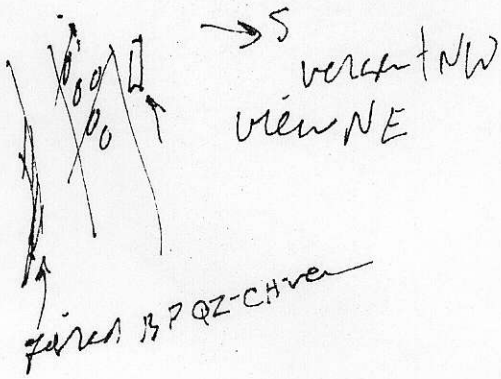
R13 of 4 w/ M & Rot
on cliff view NE

R13 of 5 vein N w/ rot fall on E & calcite on West side of Treaty Glacier

#6 vein SW w/ Rot & Qtz (?) to left & walking off Mitchell Glacier in Blind

PH503 lapilli tuff beds w/ S_1 frac clay
1995m S_0 = 052/65 } $S_0 \times S_1$ = 060@19 NW vergent
S_1 = 244/80

~~PH3~~ R13f



Spec S_1 065/72 = vein w flat lapilli in S.
(2 pcs)
f 8-9 accretionary lapilli 2:1 in S_1
w/ S_0 = 060/60 } $S_0 \times S_1$ = 115@56
S_1 = 115/90 NE vergent

PHSA504
black slate & silt und 10m f c sf w/ volc & chert pebbles
S_0 = 215/75 S_1 slaty = 215/42
vergent NW hgg wall down
calc. $S_0 \times S_1$ = 215@00 West vergent

f 10-11 bear crossing glacier taking from end spot
f 12 vein up Mitchell Glacier to South over to N

crossing talus on black slate S_0 = 210/55
west vergent S_1 = 240/50
hgg wall down
calc $S_0 \times S_1$ = SW vergent
335@50

Station Date

PH505 Contc knots within black slate w/ lsd & py concretions at top 5x10 to 10x20cm overlain by amygdaloidal vole blocks w/ lsd cement / some pillowed fragments
Contc 221/48
concretions flattened in planar clay cleavage

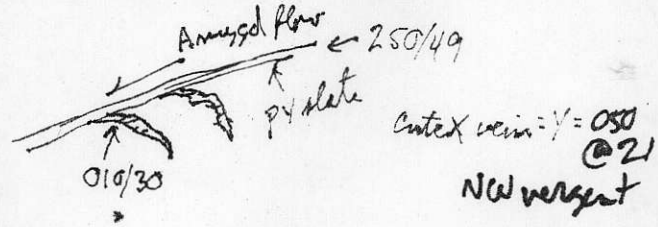
PH506
1900m (below lunch stop) black py slate w/ silts.
Bedding ~ ⊥ slaty clay
S_0 = 292/18
S_1 = 096/83 } $S_0 \times S_1$ = 090@6 S vergent

1880m Several 10m thick amygdaloidal flows (peperite) w/ sulfidic slate/felt between

pos fault slices of black slate (1m wide) between flows 082/75 = orient of slices pos N west side down (high angle or oversteepened normal fault block)

1860m 1m dibs cut off at contc of black slate below amygd. flow - looks like normal motion on contc 245/83 w/ gash veins in footwall dragged down-dip along contc parallel extension shear PZ veins

R.4 f.13



1810m 245/46 = contc Amygd. flow over BL py slate
lots of 10m scale intrafolial folds of slate fingers penetrating base of flow - look west vergent w/ is consistent w/ normal motion

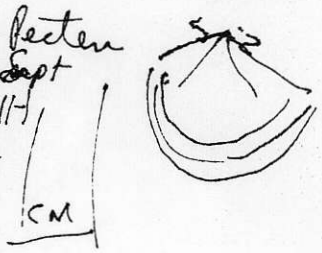
Station Date Map Photo

1780m [redacted] S_1 py slate 069/75 } $S_0 \times S_1$ = 077@75 S vergent
S_0 = 265/70

Pelecypoda looking like large mussels

X1 Cavity remove virtually dissolved w/ mold remaining

also Pecten
Roll begin scapt
f/1 on MNH
Camera



spec of Pecten

30m per decade

Cut c/ tuffaceous SS over bl slate S_0 = 355/65

3-5cm SS is lt tan w/ dk grey silt interbed 1-2cm
also 2m bl slate on tan to white SS

silts are slump folded & bound intraformally

50m Arson slope S_0 = 355/55 } $S_0 \times S_1$ = 058@19 NW vergent
S_1 = 196/71

[redacted] Belemnite on calcarenite

R13-frame 14 fossiliferous w/ Pelecypoda
Belemnite hook

S_0 @ lic edge = 265/40 } SE vergent
S_1 = 255/67 } $S_0 \times S_1$ = 068@12

[redacted]
f/5 pick up point looking N @ E vergent
Aden/Schr

R16-18 Salfasteles Glacier & Lake overlay Back w/ Dale

Photo 10-2.84
Sept Sunday Tasing from Leaks / Lingle Cr area
Retrospective partly cldy wind W 10 km +2

QHSA510
1775 m
Grey shale & siltstone (w/ So 11 cc concretion)
some fine laminated beds - mostly massive
well cleaved shales
S_0 = 325/85
S_1 = 178/68
$S_0 \times S_1$ = 331@50
So: 295, 90 m NH

510 Spec orient = S_1 = 185/5C lam silt/SS
Clinker upto expressive
1835 m S_0 = 315/80 white weathering SS matches N of grey Rock
S_1 210/58
$S_0 \times S_1$: 345/46 SW
$S_0 \times S_1$ = 328@84
X3 beaded white SS fine ste
510 Spec 194/60 = S_0 = orient

810m - for 20-21 view SW along Trail Pt, showing
near steep cute between black & brown
beds taken from pinnacle

QHS11 Dk grey silt f to talc chen
Spec QHS11LC

w side talus
Cute between black graphitic slate & dk grey
silt = 182/75 = fault w/ lineation on cute
but can't see lineation

QHS12
720m
Graphitic black sheared slate w/ folded
shear fabric
S_1 = 335/80 = shear plane fabric?
S_2 = AXSL folds in shear fabric = 280/45
general lineation on shear fabric = 090@50 where not folded
Spec QHS12LC black graph. sheared slate

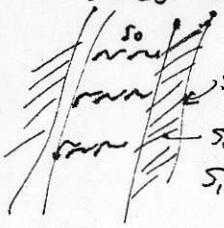
835 m
EE QV = 315/80 in Shear fabric = 315/90
E side up

1590m 248/80 = So in B+G Grey PY shales + silts
must be just S of shear zone

ØHS13 S_0 = 325/80 in 5-10 cm beds of rusty weathering
silts and shales
weak S_1 frac = 350/84 West vergent

Spec 513LC PY stone grey

ØHS14 fr 21-23 from clay + mullions in ~vert beds
of rusty SS and shale
view South



Evergent clay

$S_0 \times S_1$ = 160@32

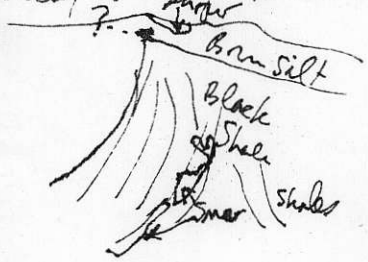
S_1 ∥ fibres gash vein 005/45
fibre axis on vein = 100@44

1400m
R13 f24 85 mm view of Kerr Property from
branch stop below Twin Peaks
(Kingras Creek area)

ØHS15
1400m ~~west~~ side of gulch grey black fissile shale
strong Soll shear
S_0 = 330/44

~~ØHS~~ photo up valley to N & ALLN

R13 f26



Ø#516 Bouma C-D-E turbs w/ Black Py shale in E
1290m div wiec climbing ripples. Some 2-3m
sands prob traction beds
Spec #516LC Black shale

Photo 9-268

Ø#517 Green shales So = 026/40
LC spec green shale

M on 10 Sept O/C N 1800m some old lower
spring Twin John Pks area again - try west
ridge
Photo 9-268

PH518 Grey silt & shale highly fract fractured
1930 m
010/78 = S_0
open not orient for petrology.

PH519 5m PC xl tuff in green SS beneath
grey silt + shale @ H518

S_0 = 010/90 GB says RT way up
S_1 flattening in tuff = 210/80 (not primary flattening)

Spec tuff orient = 315/55 fabric is S_1

PH520 Grey-green-brn SS silt + Arg
1750m S_0 = 195/58 no clog
LC Spec Black argillite 20m below snow drift

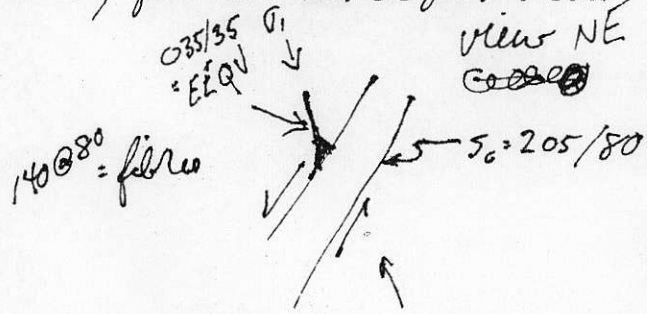
PH521 LS Carb/grey shale + silt below brown
with ssl/arg seq
S_0 = 180/55 no clog

PH522 Grey SS? channel on rust within grey shales
S_0 = 213/50
S_1 fine clog in green within silt = 185/70 Evdg
Spec w/ fine clog 185/70 = orient

PH523 Interbedded green & black shale & silt
some dis o.s.c. fragments floating in silt

Spec 523 LC Rusty shale

ØHSA524 Rusty black/grey shales & silts w/ lovely fibred tension gash vein



from 27 view SE: Mitchell Glacier on left snowfield above Sulphurets Glacier on right w/ Kerr prospects to rt of Sulph. Glacier Cloud on top of MT John Walker between glaciers

Bruce-Jack Lake Newhawke

Shore Zone GA & SP in Au-Ag Barite & Qz & Clay

West Zone veins = Ruby Silver veins

Shore Zone veined PY-bearing gray pres w/ yellow
with Qz-PY-MS w/ poly fol set + (altered tuff?)

Veins are white Qz & Barite w/ black sooty
SP? (I can only recognize PY in wall rock)

Send of Shore Zone with N measuring late strike! the veins
20 cm white Barite vein 115/70 (~2m long)
25 cm white Barite vein 230/60 (~2 m long)
5 cm white Qz veins 292/80 (~50 cm veins)
3 cm white Qz vein 290/80 (1m long)
5 cm white Qz vein 268/80 (1m long)
10 cm BA + Qz vein 145/65 (2m long)
1 cm BA vein 305/90 (20 cm long)
Here veins are clean + not folded & poly = 210/80

Hairline black fractures w/ Sulphide JR 50
172/75, 142/90, 320/82, 130/90, 225/68
325/85, 320/90

Thereafter
massive Qz vein w/ wispy [illegible] in irregular
patches that vein = 100/85 w/ 5 m wide
at least 7 m long [illegible] poly fol
irregular patches that they [illegible]
Colour w/ veining

Thereafter Qz
massive Qz w/ sooty gray-brown PMN and
veins w/ Qz xtls pos apparent mineralized
mat'l in them
This could be another vein that was fractured
& open spaces filled w/ later drusy Qz

Map Photo

Trenches 21+20 [illegible] Qz vein 130/90
n±3m wide, cut by [illegible] veins 1-3cm wide
but look like open space filling in [illegible]
Main vein has [illegible]

Trenches 5+4+19 look like 1-5cm EE [illegible]
[illegible] to [illegible] orange [illegible]
[illegible] 5 [illegible] 175 [illegible]

Trench 17 [illegible] SA/QA
scattered thru whole SA-QZ in
[illegible] masses

No organized vein fault to veins
of mineralization [illegible]

Trench 13+12 @ NEND of slump

Breccia veins: very sinuous vein system
cutting PA-QZ-MS [illegible]. late veins
cut fol wall rock
vague impression of E side up if
veins are EE like trench 19

- f 27-28 [illegible] QZ-BARITE vein
@ Stone Zone

- [illegible] Rich across Sulfacets Ck in trackwater
of MR Montgomery

PHS-25 Joe Ruby Ag, electrum in Barite vein f/ dump
West Zone SE

PHSA-526 Bag of samples from channel in schistosity
[illegible] at SE end of West Zone Bruejack
[illegible] fabric in some specs looks
similar to SE material

f 29 View of New Hawk Camp @ Bruejack Lk

Wed 12 Sept CAVU

On Mitchell - Sulphurets Ridge
fl 30-34 view to E & N of previous traverses

ØHSA-527 Cgl and Breccia very massive black shale matrix mostly volc clasts but some bedded silt/shale clasts probably a debris flow

Spec w/ poss weak S1 flattening of clasts

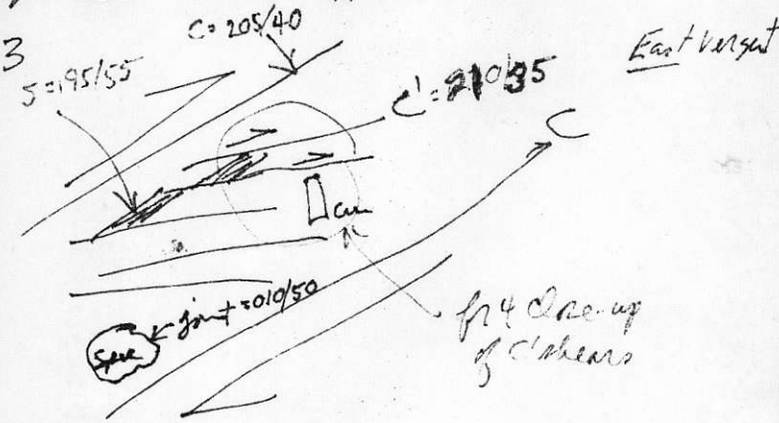
Photos to end of Roll #13 of 2 arms of Sulphurets, Hanging Glacier

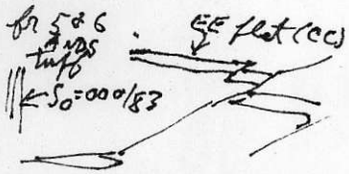
R14 f1 Sulphurets Glacier w/ Bell 205 slumping something to rt of medial moraine

ØHSA-528 Chebougamau Zone (KQ 90-164)

Main shear 205/40 w/ CPY on C plane
Sash vein w/ reverse offset horizontal
shear zone is 3m wide
Synthetic extensional shears

R14 f2-3





T Evans 13 Sept 90 McTagg 'Basin' area
O/C ore. zing get out below glacier by 205
w/B mace picked up by Dale in 206
IR Photo 29-109

QHSA-529 Black & gray thin bedded shale
rare sand
S_0 = 232/72
very weak S_1 in shale:
S_0 = 218/44 } $S_0 \times S_1$: 302@44
S_1 = 245/50 }

Discordant

QH530 Beds below (black carbonate) flow 3m thick, upper amygdaloidal

S_0 = 195/63 } 350@42 Syncline
S_1 = 236/45 }

Mess SGLN below thick flow unit
disconformity

SGLN ΣXPL = 208/40 FMAX = 310 @ 40
20cm thick

QH530 open intrafolial cgl lens w/in black shale
clasts aligned 41 plunge of sele
Bient Σ 230/40 = S_1

Mostly Black shales, but w/ folded intra-formational
cgl & debris flows below 20 thick
Bm with ring flow

QH531 Reverse imbricated of f.g. blm
containing rolled SS lens in graphitic
black shales

S_0 = 025/70
QZ-CC fibres in BP QV = 200/52
Grooves in footwall = 350/36

Spec P Vole = 531
Spec Black P Vol = 531-1 LC

Fri 14 Sept E of Treadwell Glacier CAVU calm!

CAB blow-up photo base

R14 fr ~~8-43~~ View west across Coast Ranges Red ramp

9-10 View of Rod on Cliff to North

Φ14SA534 Silty sands + sands + black shale (Stuhini)

S_0 = 200/30 } $S_0 \times S_1$: 3m beds of SS/Silt-Shale

S_1 = 006/85 } show folds on ridge

+50m S: S_0 = 232/25 } $S_0 \times S_1$: Black + brn silts

S_1 = 184/75 } 'pencil' clay

+100m S S_0 = 170/87 spec of brn weathering grey SS

Spec strike = S_0 = 170/87

3m chert + granule CGL Spec and next 53 ~~4~~2 granules are QZ, CHT, FS? No obvious code for map

Φ14-535

1-2m SS beds and 1-2m interpenetrated granule + cobble beds channelling says E facing on S limb of overturned Sclv

S_0 overturned limb = 170/70

S_0 in Sclv core = 325/35

R14 fr 11-14 CGL channelling sandy bellow w/ parallel bedded black silts above

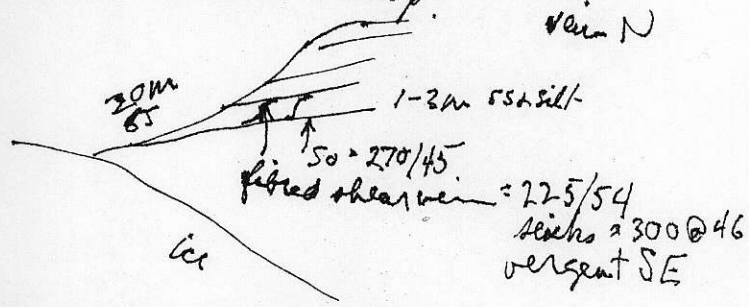
S_0 = 300/10 w/ slickenfibres 115?

Φ14-536 Interbedded Black-Grey Brown Sands-Silt-Shale

S_0 = 325/55

S_1 frac on SS = 170/65 (Nverlgnt) } $S_0 \times S_1$

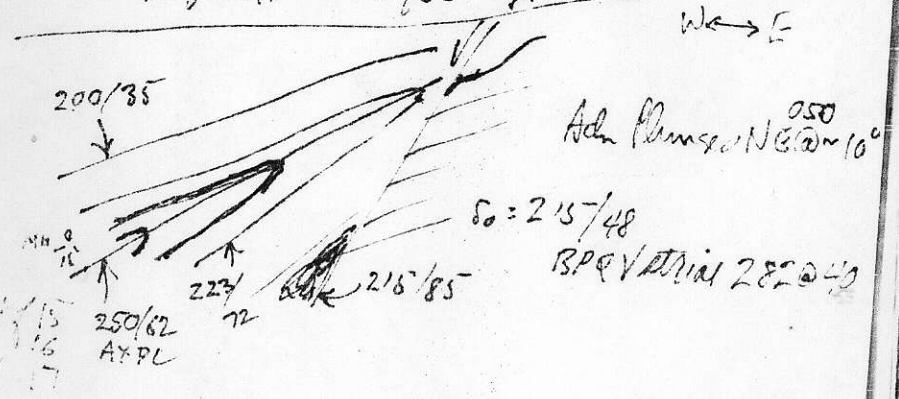
✓ PHSA-537 Is this a ramp?



☆ Wicked that the fold verges W, but the ramps verge E!

✓ PHSA 538 S east-vergent chevron ACLN in Bm Sandy / Bl Shales cut off to S by steep N dipping fault (? Normal)

Steep fault 215/85 Dip north



✓ 539 Conjugate EE & V in v. massive ss bed indicate vertical extension

Ref 18-19

NB Sill veins are 90% consistent w/ normal faulting - prob reactivated reverse

7/3/65

[redacted] [illegible] valley wall showing
bedding in shales

← 50 m → → SE

R14 p20

[redacted] massive paraacgl w/ angular sed clasts
prob debris flow, Dk grey-green
no Fo AS
[illegible] ? any vol clasts?
Rod says 'chalcite clasts' are amygdules
w/in volcanic fragments!

Summary: No dykes cutting the sediments
suggest to Browser Flo Rod.
Overlying grey volcanics are Dillworth

Chevron folds in seds are overlain
by well dipping trace of base of
Dillworth

are folds truncated by a thrust?

Sat 15 Sept Bruneejack Ck down from Newhawk Camp
Cloy morning. down scat showers wind SE
Photo 4-197

DH5A-542 ~~dag~~ - Rusty Cm-Yellow-Green white
coarse mafic fragmental volc
Spec of least altered mat'l which seems
to host the West Zone vein system
where it is very much silicified

DH543 cont PS porphyry to E of interbedded
grey sst Black Shales
10/75
S_0 = 10/75 No S, in shale

Cont w/ porphyry is sheared, but one dyke cuts
in some intrusive igneous bodies here

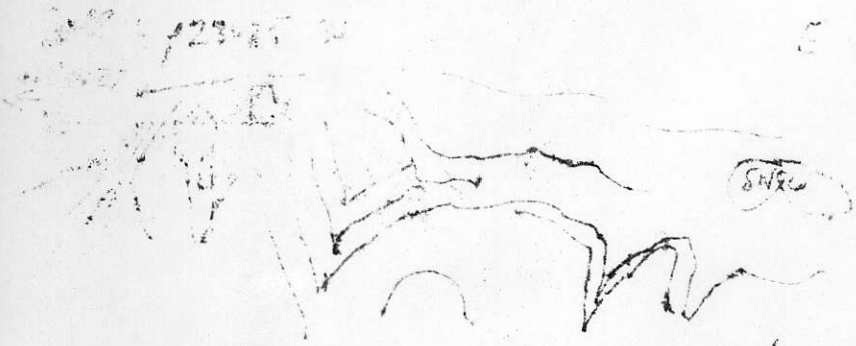
fault Cont = 620/80 slicks = 295@40

Creek S = 50/95 } S.XS.
S = 38/47 }

(non-
E wedge)

S_0 = 235/83

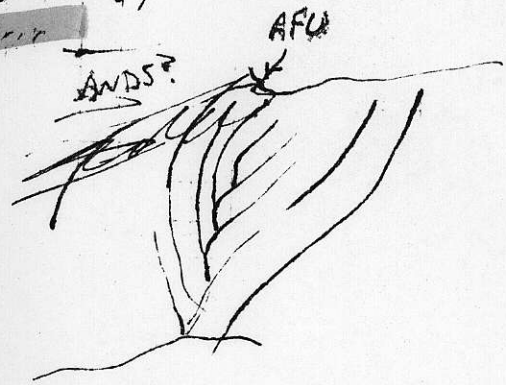
DH544 view of folds in canyon wall Bruneejack
Creek looking N



W bearing of canyon volc sequence is thrust E over
folded section

RIU 67.31-34

[redacted]



[redacted] [illegible] massive ? volcaniclastic
[illegible] ANDS comp^n
[illegible] small rock

Probably sediments intruded, folded and [illegible] by ANDS breccia

Spec [illegible] ANDS volcaniclastic

[redacted] cg ANDS breccia spec

Sunday 16 Sept

[redacted] top of Kern or Kaiser Ridge
2 holes in Lapilli tuff (good crust 52 cals
(Hadenny folds) suggest Varnish on
lower level
w/ R15 fl. Rogers Dale Cox copters
f2-3, Bell 205 and Bruce Jack take
f5 [illegible] Kaiser
f5-9 Hoary Marmot at Upper Camp
of Western Canadian site

PHSA-549 PC phenos AUDS pathology w/ primary alignment
of phenocrysts Spec for petrog
Collected at western Alpinism Camp site

Looking @ Ken Property W John Payne map F.G. in valley CP W wanty

PH537 Sandy & Shales — Shales intensely sheared

S_0 = 024/70 } $S_0 \times S_1$ = 122@70 Sw overturned
S_1 345/75 }

S_2 = 170/90, S_1 = 180/62

PH538 ? int. comp in dyke with black sh Shales
Spec

John Payne's Map
DDH K87-11
West Zone fault S_0 132/55 in sheared silt + shale
elongation ?? fragments L_1 = 282@34 / S_{0-1} = 132/58

No 80 = S_1 in west zone fault separation Rusty
altered footwall rock from grey unaltered
hangwall rock
Easting rock are serpentinite rest
28 grid 95 X 25N / 97 X 25W

DDH K 88-4 9561.5N/93X97.1E 1770M
S_1 = 140/80 in rusty PZ-PV-Ser rest

30m 514 ft DDH K-88-9 drilled wardsle. S_1 = 190/45 in lens of altered sed? in rusty PZ-PV-Ser rest

folds in S_1 } AXPL = 250/65, FOAX = 255@45
sinistral vergence AXPL = 275/66, FOAX = 328@40
~~AXPL = 285/80, FOAX =~~

30m N DDH 88-4 Soft weak eroded arg/55 = 205/70

88.2 Rusty tuffaceous Pritic/Mritic ss grey aphanitic frac intersection lineation = 310@10 looks like what John measured

87.5 S_1 = 143/80 Rusty
PH538 Spec w/ lots of PV-CP in grey f.g. matrix
FL = 194/85
Contact Zone exposed contacts grd at Pyrrhotite Zone

Bedding	BDNG	Contact
Boudin Axis	BUDN	Enveloping Surface
Cataclastic	CATA	Fold Axis
Chevron Fold	CVFD	Fold Mullion
		Foliation
		Gneissosity

TEXTURAL TERMS

FINE (to 1 mm), MED (1-2 mm) or CGR (over 2 mm), HØMØ or [illegible]
LAM (to 5 cm), LAYRD (spcg, dev?) or MASV, FØL or NØFØL, PØRPHYROCLASTIC
or PØRPHYRØBLASTIC

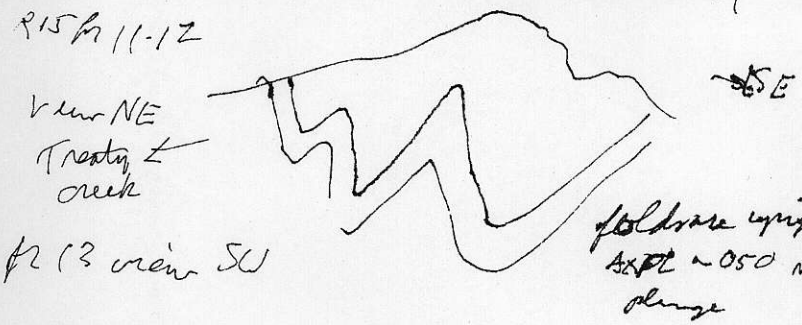
DOH 87-9 Should be cherty metagreywacke, tp can't. Massive grey aphanitic unfol shit!

Mon 17 Sept warm sun moving in fr SE
Treaty Glacier area area A

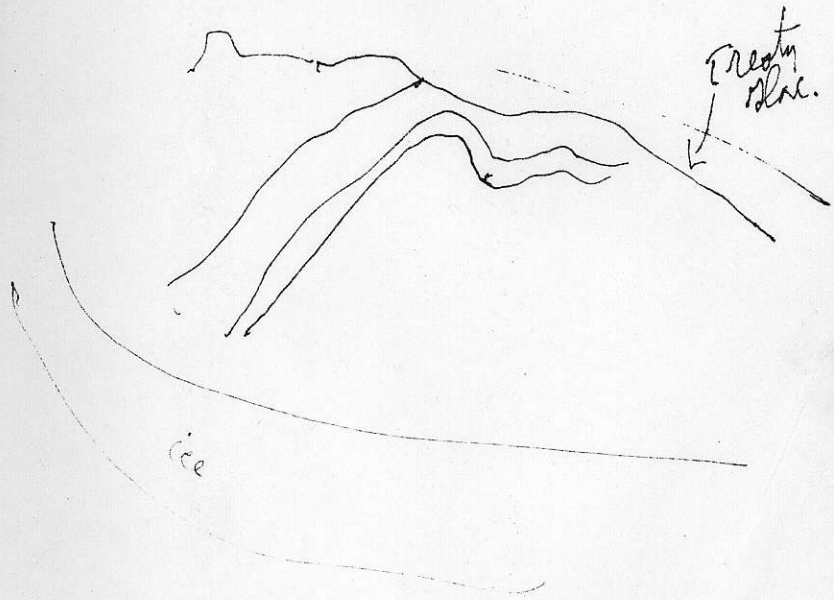
[redacted] QH539 Br 55 glass shale w/ minor mudst + sed cgl & intra formal breccia beds

Photo ridge to NE folds in Bouse

P15 fr 11-12



P13 view SW



[redacted] 540 midpoint of crest crit ang-fg PC crystal tuff breccia over white welded tuff w/ fiamme

So = 04/85 faces SE R-W-U

P14-15-16 queer distorted laddin in welded tuff mushroom 52 ?

Photo shaded tuff-breccia over welded tuff

1-2-3 Specs of Tuff for petrog

PH541 Green and some maroon CG vole breccias v. massive beds - Betty Creek?

S_0 = 018/70

PH542 Green vole breccia w/ aphanitic pale green flattened ?bombs, altr CH filled amyg: lava frags
flattening plane = 330/50

PH543 Olive green w/ thin graded cgl-ss & argillite w/ convolute laminate, red ll concretions, some are chert, flame structure

330/58 faces NE (RWV)

Belemnites in maroon ss vars overlying welded tuffs

Ramp in maroon beds = 256/52 cuts bedding 315/70

256/52 } int = Y =
315/70 }

located on piece of blow-up photo
PH544 dark green lava flow w/ CH amygdules
spec ch if lava (prob a Cork like bedded rock)

Snow on mtns last night
Fog in valleys clear above out of ESKAY camp
19.09.90 w/ Raven (Crequer) Rod, MNH
(yellow & brown)
Log on blowup
PHSA-545 f.g. rusty, rust weathering gossan Qz-PY rest
bag of chips & nuggets from smooth vcp above
Pretty blocks
bag of chips from 70m area

S_1 = 065/75 very var.
S_2 crnl = 270/36 var.

PHSA-546 base of gossan on top of talus
w/ bitsh grey, yellow weathering ? pn plagioclase
vfg Qz-PY rest, poss MVAC flow - relict
white lapilli fragments flattened in S_0
S_{0-1} = 150/45
S_1 = 218/45 (sm up slope)
Spec (bag + hand spec)
massive PY in clots to 5cm diam. and S, II
lenses vfg pale grey

PHSA546-1 spec of fresh float from up slope
w/ folded sulfides and? native sulfur
folding vags (too hard - unknown yellow mineral).

PHSA-546-2 bag from up slope where MNH
gave S_1 = 218/45

NB volcanics underlie the maroon & grey seds
at tree of ice
Log on 1:60,000 photo #009
PHSA547 Maroon & grey SS & Sh over felsic
tuff breccia gossan
S_0 = 310/53

PHS48 Massive cobble-boulder cgl of green mafic lava frags.
So sheared = 327/35 w/ rare slaty interbeds
felsed qz 125@28

PH549 choc brn siltstone w/ scattered belemnites over green & brn cgl beds which overlies volc. breccia

S_1 in silt = 098/90 ? looks like 'S' is S_0 parallel parting
S_0 in silt = 275/85

Belemnite siltstone bed is overlain by autobrecciated amygdaloidal flow w/ belemnite shattrip
Spec of brecciated flow

Beds over the lava flow are x-bedded & face N (RWU)

PH550 Maroon, black, brown well bedded 10-50cm SS silt argillite beds. BPQV 1cm wide spaced 20-30cm apart

Transition from Hazelton to Bowser is over lnd by interbedded Maroon seds and autobrecciated lava flows. Belemnite-rich beds occur w/in transition sequence

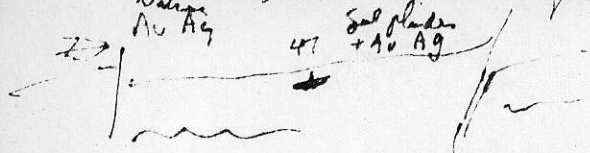
Also great thickness in center of Treaty Glacier

PH551 Maroon & brown SS, black shales
S_0=270/60 RWU (flame, g.b. SS

BPQV not filled, but very dirty & laminated
EEQV ~⊥ S_0 - seem later than folding
Many small normal faults cut bed w/ 2cm displacement.
Nothing very interesting in this sequence structurally

Sedimentologically interesting slumps folds. flames slight rip-ups, mullet seed cgl. NB not good Bouma A-E turbs

Jerry MacArthur Colpine chief Bolongpit
Summer of E.Kay Geol



SNS dykes ? Pedestrian exploitation
along prominent faults

E.KAY Creek

ore horizon w/in contact aureole
strike 1500 x 200m down-dip
2-60m thick plunges N

Sequence is conformable
0-40m jasperoid Andes (Schist) / sinter (no Lime in Bonzer)
0-12m Cutler ss. argillite extensive Au/Ag + sulfides "B" zone
3-150m Rusty limest (Mt Delwort) Realgar + stibnite "A" zone
50-200m Footwall Dacite (Bolly Creek) stibnite and sulfides

Mineralization Schist because
jasperoid west dipping
ironstone

mottled

acicular chlorite

Cutler ss. Scarley Mg
Ilmenite enriched

see report by Jerry Brachevelles for DS stuff

Greenstone Colour Metabasalt and Sulfides

Kalgoorlie type Analog Nature Geol 1989
Golbach Geol vol 3-38

Prime Res. Dep Inc wall poster

George Ale - Pres + R. E. Ebey Chm - Stevens / arm group

Phone (604) 687 7463, (Prime Capital Gp of Companies)

cntc Investor Relations Dept

Mine Tour w/ Steve Kenwood (Calgine Holdings)

Photos: Complex fault w/ drag
Sulphide tar beds,
Duplexed Dol. Bed.
Drag folds
Mineralized EEBV

$1/1552 Spec w/ press free Clva
from drill into bedded
Re