019488

Doug PERKINS

HY, SUN-MOON &
TILL NOTES

NEVILLE CROSBY INC. METRIC LEVEL

Sunny. 06/05/81 (2)

Silt sample orientation
ON High Property

(150 feet upstream from camp 1

DPH81 01 - Stream slightly stained with yellow stain on rock in bottom OK silt minor organics 20% Pebbles etc 30%. Elev -

DPH 81 04 - Stream intersect 150 m upstream from Doug's tent OK To poor silt 40% rock frags at least.

DPH 81 03 - Trib from large spring at clearing where Doug's tent is Trib is on left (south) side and is primarily mossy covered rocks OK sample 1 to 40% Org.

DPH 81 02 main Creek by Peter's tent 20% gravel 15% org.

06/05/81 cont

Flew up Bird to long lake at very South of property.

Orientation and silt sampling w/ Helene, Cathy at Peter Roberts.

Work started ≈ 1 pm and spent nearly an hour figuring out where we were.

Area is obviously a paleo channel with occasional OTC at side. Crew is very slow but catching on. Found small bear stuff.

DPHR8101 - on North side of creek approx 1600 m upstream of long lake. mosquito's very bad.

Bedding 185/62 SE

S$_1$ 143/65 W

06/05/81

DPHRB101 cont

This rock weathers light grey with dark grey 4 mm bedding layers. The light grey is a micaceous silty ~~fine~~ phyllite the darker areas are similar but possibly not as silty. Commonly w/ with 1mm to 1cm qtz vf.

larger Otc

So 050/40E

S1 330/55W

~~Geo~~ should return here - am in bit of hurry as crew passed by ½ hr ago

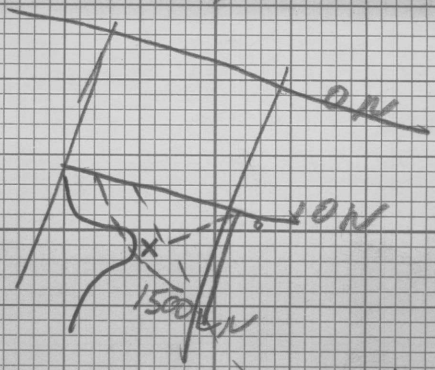
Sun o

06/8/81

1st day on Till Property

Chopper pad trail comes out at L 10 NW / 90 W.

10 N goes 60 W at



Claim line at 2700 runs to Chopper location

07/08/81 Tues 9th ⑨

On Tiff property w/ Joe
Digging profile holes
Peter K & Peter R runnings lines.
The girls on Hy as James & Peter. Hook.

Jim came & Picked me up after noon ~~[illegible]~~ went to town.

NEVILLE CROSBY INC. METRIC LEVEL

06/10/81 wed.

Everyone in camp etc Jim slept in ½ hour. whoops.
Peter Hoek & James down camp creek to south.
Peter Hoek & Joe over ridge & down to meet. silting women out spiling
Peter Roberts by himself.

I'm starting at my tent and working upstream looking at rocks - Finally.

Rock banging at my tent - large amount of qtz veining in Dacite ~~silty~~ silty to siliceous U.D.M.

DP HR 8102.

large qtz w/ fragments originally 40 cm square

Non-aligned rusty stains with numerous fractures in rock large massive smooth texture with no directional banding No visable salphides but Au possible? minor fragments of country rock. will send this out for rock geochem. Retaining smaller fraction.

obtained (6)

DRHR8103 - otc like 02 300 m downstream from confluence at camp JM807 directly upstream intensely qtz v/ blk ~~sh~~ silicified shale or Diorite? - very qtz rich & fine grained took 50 foot chip for assay & sample. Is directly on stream bank with otc of ~~black~~ grey to dark grey black w/ rusty stains upstream & otc of light grey phyllitic ~~sh~~ shale to a lighter ~~dk~~ grey version of what is upstream for the time will call different base on colour & stain.

We decided that we were dealing with a dyke when pheno crysts were visable and a silicified shale when they were not visable.

Note. It is fine grained intensely v/ sandstone.

(9) 06/11/81 Thurs.

DPHRB104

Samples of intrusive at border? ~ 400 m downstream from camp and 100 m above creek, layered Rock with grey chert. contact with intrusive? no bedding possible as still into intrusive. Sugary texture INT - grades to much like camp material.

DPHRB105 140 S / 1480 W

Near top of Baldy south of 00 / 1500W the area to North is silicified shale slightly flaky see 5 M samples as we met for lunch.

This location is anomalous due to intense quartz veining and a resistant rock running E-W. It is dark to medium grey with a fine sugary texture and intensely quartz veined in locations. This is much like 03 from previous day. Dike?

10 06/11/81

DPHR8106 - 1603 + 1500W

Light grey weathering in small plates
Small fold (.5 m between limbs),
towards 225 → 15°. The prominent
feature here appears to be bedding
Bedding seems to be disturbed
here because of slope creep the
reading is kinked best is
040/85 NW. which tends to agree
with what is on the other side of
the hill. The laminate tend to
break ~1 mm this parting is
probably due to a strong cleavage
nearly parallel to So - More
if is not all this study ~50%
the plates are hard. Slag rubble
but not hard enough to leave
metal although the more massive
folded plates are harder.

DPHR8107 - 0510S 1500W

South End of Bald Hummock that
fuel drums are on - S of
Baldy.

Rubble patch but probably in
place. looks black at surface
weathered but is a dark grey with
up to 60% light grey to white
discontinuous laminate or wispy
silt. The rock is relatively
hard and has qtz veining

DPHR8107 Cont.

the rock as a unit shows large amounts of minute crystal faces or silica fracture faces that are too small to see. (much like fine sugary). Blocky Quartzite fragments

DPHR8108

at Don's Camp.

- Relatively massive bedded shale with quartz v/ forms a resistant knob. Dark grey to Black with 1 mm to several cm v/. Plan on coming Back here w/ chopper & looking for structure.

VL 06/12/81

Crew list

Hook / Simpson - creek
Due N of Camp

Helen / Leja go to /
3000W 1500S then
go E to 1500W 1500S

WARD / Roberts 3000W 1500S
W to Lake then
N to creek that goes
due east and S/F up.

Kulich tag claim posts.

7:20 - -95°
60
DP/RB109

200m E of Don's camp
Black resistant siliceous chert
forming in layers or bands 2 to
5 cm thick minor fold seen
plunge 30S at 210
Reading on 1.m6. is 110/35S
minor qtz vn
For the crew 170/50W
looks like an accurate reading
as the qtz as a rule
trends that way.

06/12/81

(43)

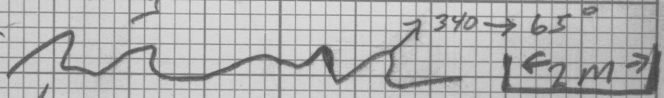
8109 cont

Some shaley interbeds 3 cm thick interbedded and the Chert may have minute silt laminates - light grey. The rock as a rule is not calcareous

TO E 25 m 015 /25 W

Becoming slightly shalier this is probably a good section for mapping.

015 /30W. 25 m further E. will pass 30 m south basically on strike with 1st otc the "Ribbon chert show a complexly folded structure looking W.



the Otc as a ~~whole~~ whole still ≈ 030 / 65 W.

DP HR 8110 This otc is very difficult to see clearly - Rounded exposure which tree has fallen on uncovered. This appears to be bedrock. I was looking to find light grey shale with minute laminae of qtz which I only found in float More qtz up to N. but country rock may not be as competent hard to tell

Followed OTC more or less along strike. at 10 Rock is up to 100 - 80% qtz v/ there is not continuous otc along strike but at

DP HR 8111 TL 15 w and 930 S there is 20 m of discontinuous otc this rock is a Dark Graphitic - carbonaceous shale which structurally is below the Ribbon Chert. It has enough silica that the fragments tinkle when dropped but is noticeably softer than the chert

This etc has a surface expression of 1.0 m and no talus - Tall timber. It is crosscut in part by veining thus it may be variably silicified..

DRHRBU2 - INT.

Below top of Baldy home creek side same elevation as W. ridge peak, small talus etc of INT that is different than comp INT - just weathered. 20% large Quartz eyes IDENTify as Comp.

06/13/81 Sat.

Crew list

Peter Kulich - claims

Helen & Peter Hoek go to small lake on E side do line 3900W to 4500W then not sampling but go North to 4500W & 10000S and W to ~~[illegible]~~ 10000S to 3000W

Joe & Cathy go to 1500W 2000S - it has been sampled part way to 00W 2000S pick up end - go N (no sampling) to 1500 3000W and

Peter Roberts & James go to 1500W 2500S sample to 3000W 2500S go up to 3000W 2000S. and sample back to 1500W 2000S.

sample back to 1500S 1500W.

Joe Leja hurt

I went to town w/ him

phone Vane or Prince George to get Workers Comp forms

06/14/81 (17)

James rest of 20S from 850 W to 00W & 15 S from 00 to 15W

Cathy & Helene 10S-00 E to 15W and sample 10S to 5S on 15E.

Peter Roberts & Peter Hoek sample 10S 00 to 15S 00 then 15S 00 to 15S 15E then 15S 15E to 10S 15E if line not chain just head down base line.

Dull & Dreary Day: wear out with Tim to Ridge near 00, 15E. Float of ~~shale~~ sandstone etc. & andesitic dykes in a poorly exposed silty shale. ANDESITE is fine grained dull med grey weathering often with a brownish cast to it. weathered

Sun 09/11/81 (18)

feldspars are very common and minor amounts of quartz eyes seen? The silty shale it intrudes often shows metamorphic or soln rings as Liesegang rings.

Further to South very well bedded dark grey shale 2mm to 1cm bedded with a silter shale (very light grey) Forms a bedded rhymite. This is in talus. no ote seen as yet.

DPHR 0113

Classic sample of weathering of Leisegang ring in shale with ~~Sandstone~~ DYKE in Rudding

Mon 06/15/81

Very overcast & Raining
May not go out today

Peter Kulich - post tagging
Peter Hook - 20S from W
950 W - where it was stopped
before west to 1500 E and
from 15S to 20S on 1500E
Peter Roberts - Base line
from 20S to 25S line
25S from BL to 15E and
on 15E from 25S to 20S.
James Ward - digging holes
on the Till.

Kathy Simpson - on Till
00+1000 N W to 1000W 1000N
the N to 2000 N then
back for pick up.
Helen Baril 00+1000 N
E to 1000N to 1000E
then North to 1000E to 2000N.

DMP - Chopper Pad at 3000

Tues 06/16/81

(20)

Helen & Kathy on Hill sampling
James Digging holes on Hill
Leja & Kulich in camp
Hook 30 E 20 S or High

I started out on Hill at 2000 W 3110 N and finished clearing out a pad.

Sample at 2000W 3100N

DPHR 8114 - thick bedded shale in subcrop. samples usually >2 cm to 10 cm thick of what looks like ribbon chert but is softer locally and rusty weathering on fractures - No Dip & Strike available. Overall it is hard enough to call ribbon chert. Locally small fragments of ~~carbonate~~ sandstone float.

DPHR 8115 - same as 14 on top of knoll due N of 2000W 4000N apparently last knoll to North.

Night of 16th ≈ 42500m done
11500m left to do South
grid on Hy. may be another
9 on South
North grid.
≈ 52,000 m to do

Till has 15,500m done
has ≈ 26,500m to do.
+6km

Sun Moon. ≈ 28000
cut + 13000 cut = 41000m

Totals

Hy - 63,500

Till ≈ 32,500

Sun - 41,000
÷6
7,000

06/17/81 (22)

Peter Roberts tagging claim posts on Hy

Everyone else (except Joe) on T.U. running lines.

I dropped off at 3110 N + 2000 W and at ≈ 330° 630 m found large etc of limestone that can be seen from air one face ≈ 25 ft high

DPTR81/16 - appear to be breccia flows composed 95% of limestone infilled by limestone. Many samples taken - should probably come back for Conodont sampling. OTC trends ≈ 250° may be exposed by fault running ≈ 160° this will probably show up better on air photo

≈ 600 m at 330° from 3110 N 2000 W.

06/18/84

Kathy Peter H., Helen late yesterday caught pick-up flights thus late.

For Today

15:30

Have ≈ 4700 m. to do.

≈ 6 pages

Peter Hoek - land at base pad. finish of yesterday's work. ≈ 4000 N 2000 W to 00 N 2000 W to 00 N 1000 W. then 500 N 1000 W to 500 N (B.L) 00 W.

Peter Kubick - finish his line off from 1500 N 00 to 1500 N 1000 E then (suggest this last) do ≈ 3500 N 00 to 3500 N 1000 E and then 4000 N 1000 E to 3000 N ≈ 4 1000 E.

Peter Roberts. 4000 N 00 to 3000 N

OVer

NEVILLE CROSBY INC. METRIC LEVEL

[redacted] Peter Kulich

[redacted]

1500N 00 to 1000[redacted] W & E &
then 2500N from
1000E to 1000W.

Kathy

4000 N to 3000N on 10E
then 3500 N on 10E to
3500 N on 00. then
3500 N to 3000N on 00

[redacted]

Helene

4000 N to 3500 on line
00 then 3500 N from
00 to 10 W and 4000N
to 3000 N on 10 W

James

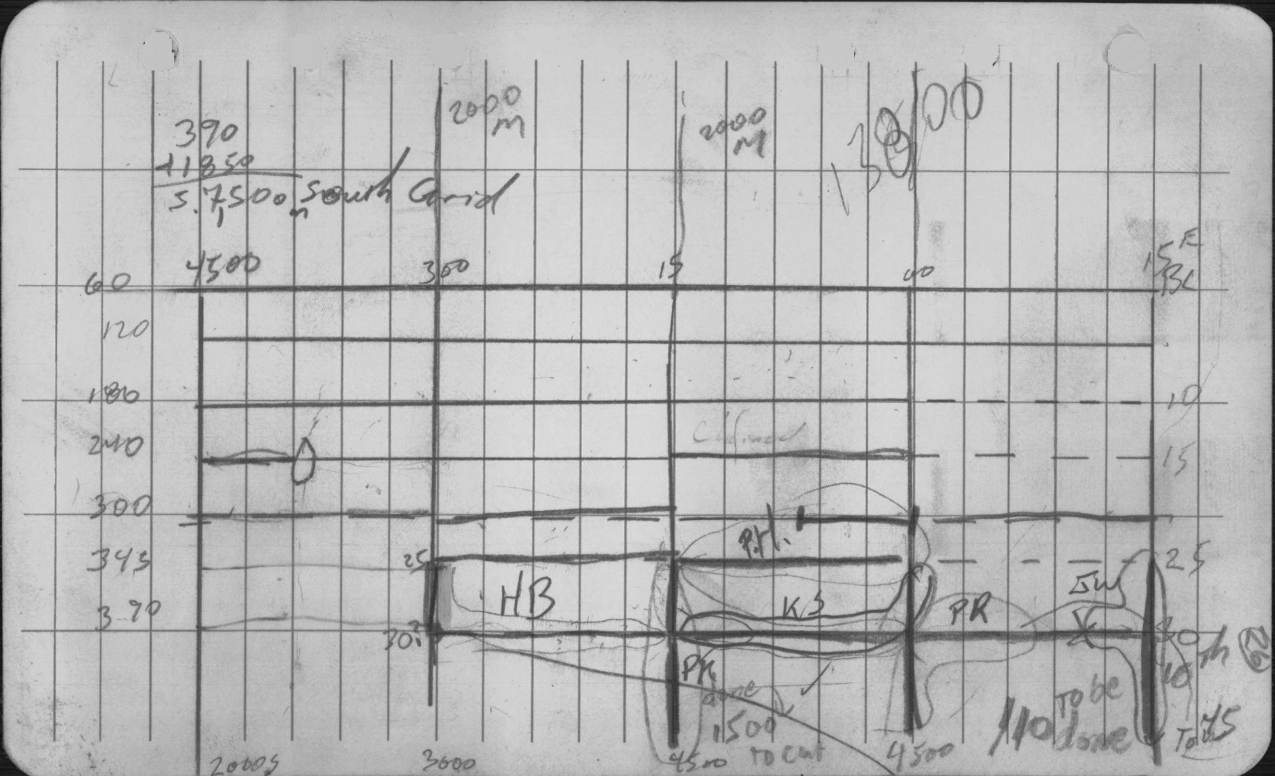
4000 N to 3000N on 20W
3500N from 20W to 10W
3000N from 20 to 10W.

Peter Roberts. 18th (25)

2000 N to 3000N on 20w
2500N from 20w to 10w
200 N from 20w to 10w.

June 19th

Day off.


390
11850
5,7500 South Corrid
4500
3600
1500
2000 M
2000 M
60
120
180
240
300
345
370
HB
KS
PR
PR
1500 TO Cut
4500
4500
TO be done
TO be done
Confined

June Sat 20/81

Peter Hoek Rest of 20S
from 300W to 00
and 25S from 15W to 000

Hélène ~~25~~ on 3000 W from
25S to 30S and from
3000 ~~W~~ 30S to 30W
to 15W

Kathy 15 W to 00 on 30S
and up base Line from
30S to 25S

Peter K 25S to 45S on 15W

Peter Roberts from Valley bottom
on 30S to 00 then
down 00 to 45 S.

James from Valley bottom
on 30S to 15E and
15 E from 25 to 45
S.

NEVILLE CROSBY INC. METRIC LEVEL

Sat
June 20 /81

Had to fly around to get pick up spots located.

Dropped at on gravel bar at South Eastern edge

DF HR 17 150005E 25005
100 m exposure on E side creek

S_1 150/35S ? Devonian Shale
Slighty Rusty weathering dark grey. Shaley parting's from 2 cm to less.

Relatively soft with silty shaley layering occasionally - Can be dark to black on fresh edges

Good measurement

S_1 140/27 ~~NE~~ ∠27 140

S_0 153/30 ~~NE~~

This shows the restricted Clevage effect often shown by these rocks bedding taken from dark grey laminate in lighter grey

These laminae regd to Be ≈ 1 mm thick.
Very minor amount of quartz ∴ this tends to cause more Fe rich stain area's exposed at creek level
minor cherty layer ~cm

DP1/R18

S_1 145/25 N [redacted]

on Creek below X on map
20 ft by 50 feet exposure of slaty shale
S_1 ≈ = a fair S_0
Tends to break 50 cm by 4 cm by ~cm but can part to mm.
It is still relatively ~~soft~~ soft but clinkly nature & weathering suggest that this is harder than most - dark grey.

DP HR81
18 cont.
A further look shows
S_0 at about 20° less
than S_1 but still parallel
-otc slumping but
suggest
S_0 145 /30 NE
S_0 145 /5 NE

≈100 m upstream
from ~~6000E 3000S~~
6 OE 3000 /S
Rapper Shale

DPHR 81 19

Immature sandstone
w/ shales interbedded

≈ 200m 3300S Part.
way up fork in creek
left side 100 m above
creek 200m above fork

S_1 150 /45 NE

~~ENTER~~ Bedded shales
in radius - have another

Rock at this later
Several samples - in large bag

NEVILLE CROSBY INC.
METRIC LEVEL

Sun June 21st

IN office organizing

Crew going out.

Peter K, Peter R, James and

left at 2 for Ross River

Cathy, Peter H, Helene at

N grid 15N & 500 south

to 10N on tie lines

June 22nd

Helene 15N 30W to 20N 30W

20N & 30W to 20N 15W

20N 15W to 15N 15W

Cathy 15N 00 to 20N BL & 20N BL

to 20N 15W.

Peter BL 20N to 15E 20N

& 20N to 15N on 15E.

Brian change INVOICE

in Rum. OK.

minus the 6 miles is OK.

June 22nd Cont.

I started out at Linecutters Camp and am progressing to chopper pad at foot of mountain.

at 10S 17W - From here to linecutters camp spotty near Continuous etc to subcrop. rends to be ① cherty bands ≈ 2 cm thick dark grey to black with a more graphitic shale interbedded - this graphitic shale tends to be softer but is often intensely ∥ wy quartz

So is 140/50 sw at

DPHR 8130 1050S 1740W

this etc shows the light to dark color variations of this unit - from 2 cm of a black chert to 2 cm light grey weathering shale

S, not pronounced.

this sample does not show the chert but shows that compositional banding only visable on weathered face

- this sample is quite friable

1075S ≈ 1750 120/30 sw

DPHR 8121

1500S 1970W - subcrop
at 9FT of fine grained ~~sandstone~~ Gabbro
quartzite apparently has blue quartz crags
10 Ft by 15Ft etc - could
be float

DPHR 8122

Just Below Executors camp
170 N15W 9,
medium soft grey shale with
darker 1mm dots - chloritic
clots ? much like ore SH
found above little lake
Note 150 m at Executors camp
graphitic shale almost completely
replaced by 2FZ ?
DPHR8123

8122 cont this spotty shale
has a phyllitic sheen and is
difficult to get a large sample
- one also taken for assay
local to 8122 more siliceous dark
grey & more massive.
as on top I think that
this is a interbedded
unit with

Graphite zones that are often replaced by quartz & silty cherty interbedded layer of variable siliceous and a phyllitic shale (slightly) that is lighter weathering and may or may not have chloritic clots.

samples taken of all types assay samples taken etc

DPHR 8124 as 22 (@ 25 ms of IDS 1700w

Probably along strike minor fe staining for assay 3 lighter gritter beds .3 soft black inter beds

DPHR 8125 1750 1700w for 50m N of

(24) S 140/10 NE

Rock is greener finely laminated blocky weathering - this is probably a altered 22. Some qtz calcite v/ hard. grades to a red grey layered looking rock - wispy leases - light grey 1mm run through it

DPHR 8126

S1 190 / 45 SW small knoll s.w. of Baldy & before Ridge knoll - may be subcrop.

Relatively hard med. grey with light grey wispy 1mm layers vein infillings. Entire rock has streaky texture - feels slightly heavy.

June 23 1981

Dave & Glenn in today

Peter 35N00 - 40N00 → 40N 15E
35N 15E

Helene 30N 15E 35N 15E 30N
15E → 30N00 → 25N00

Cathy 25N 15E → 30N then 30N00
the 25N00.

Spent day in office

NEVILLE CROSBY INC METRIC LEVEL

June 24/81

Helene 40N30W → 30N 30W
35N 30W → 35N 15W

Cathy 40N 15W → 35N 15W
→ 35N 00 → 40N 00

Peter 40N 30W → 40N 00

Stop 1 at Center of Hull Lake Appreciation.
middle Grit Grey to Dark grey weak variably siliceous to brown Grey 1/64 cm
middle unit of grit.

Stop 2 Medium Grey wea w/ clay & Grit - Green shale phyllites as well as grey

Stop 2 Grey grit - no typical phyllites, can be a silty phyllite.

Stop 3. fine grained grits with green and grey shale - poorly sorted quartz sandstone to grit

NEVILLE CROSBY INC. METRIC LEVEL

Time 24 /21

Start at Center

#4. qtz sandstone upper portion of Hull Lake anticlinorium moving slightly upward in grit

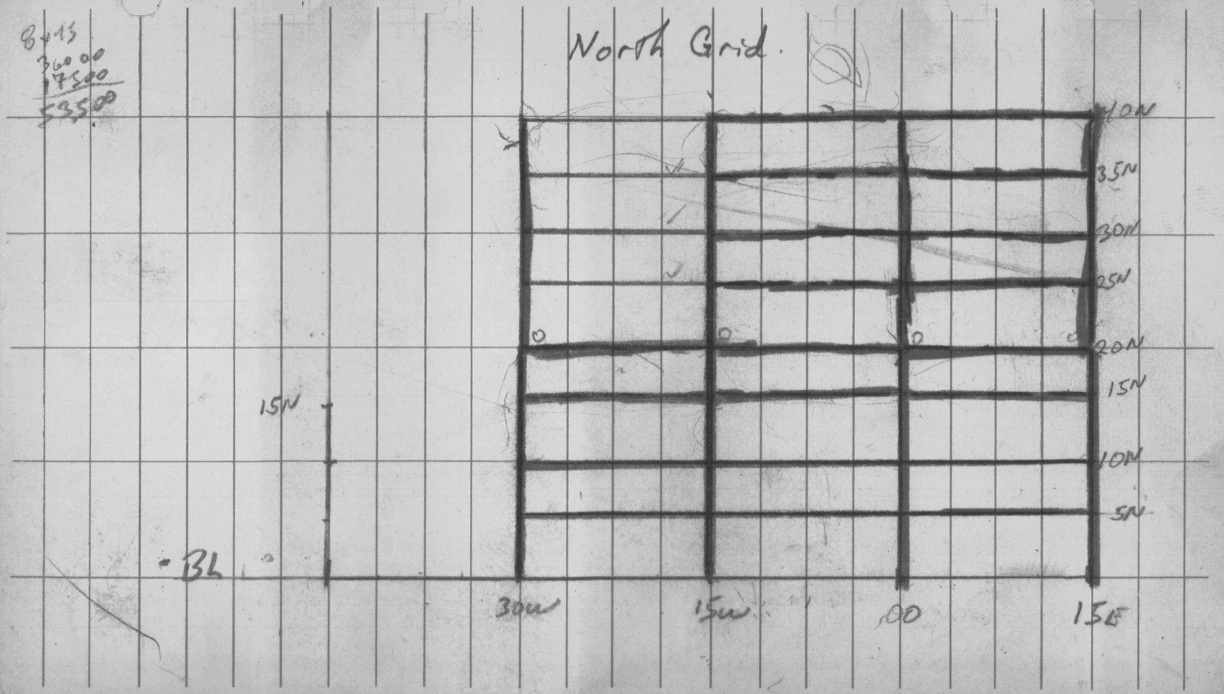
274 quartz Lake

#5 as 4

#6 shut down x bedding graded bedding in green phyllites. sub minor Calc & calc ~~[illegible]~~ Note this is green upper grit Note grit unit is buff to rusty weathering here. Not here in Upper grit Calcareous layers are not always but in Higgins can get some carbonaceous material. not very often

8+13
360.00
175.00
535.00

North Grid.



7 upper green qtzite
variably calc. but
weathering lithic frags
& galc. usually
in this unit

8. marker carbonate
unit grey - to blue
grey to black grey
blocky to platy weathering
covered by ~~green~~
scree brown qtzite
always in qtzite of
green phyllites of
upper unit
silty to meta-ite

9. Above marker changes
shut down - 10352
very fine grained sandstone
to very coarse.

10 - fine grained grit and sandstones this is well sorted minor pyrite light pinkish grey - very weakly calcarious - well sorted. very fine grained

11 - Mt Mye - ODM? what is it looks like Hy material to me, it is put on other side of major fault from obvious ODM Rocks

OC 10635 Mudstone & silt

June 25 /4

Samplers doing yesterday's Traverse as they did not find the grid.

Glen Dave and I on N E corner.

DPHR8127 - maroon shale
S, 090/35N S. difficult to find but have green interbed So ?
So ≈090/25N
∴ right side up.
Good reading

DPHR8128 on 1:2500
So ≈140/32 SW
S, 140/25 NE
This is the same unit that is seen at 15E 00N
we are approx at ~~15E~~ 14 7/8E 2100 N.

So is very difficult to find and was taken from the light - dark color variations in this soft silty shale. numerous poorly sorted relatively fine grained sandstones are found here. these appear poorly sorted with a layered pattern often parallel to S_1. Micas & pyrite in layers.

S_o 175 / 55 E
S_1 175 / 15 E
I think this reading is better.

DP HRB129 side of Ridge facing Glenn
S_0 150 near vertical to 85N
S_1 90/20 N.
this is obvious green HG grits without the grit.

Down Ridge from 28
same material S_1 140/85 NE
S_1 140/60 SW
sample of sandstone ≈ 150m down ridge - where it turns N
sample is fine grained relatively well sorted with minor py
note: this sandstone is not all that common
DP HRB130
S_0 175/≈90

DPHRB&31

silty sandstone subcrop rusty to very silty light grey siltstone minor kink banding subcrop very ~~f~~ soft.

$\perp S_1$ very pronounced 020/70 SW

$\times S_0$ 130/70 NE

DPHRB137

qtz vugs at contact of ~~Hg~~ green phyllites and qtz rich coarse sandstones.

June 26 On Snowpeak with Dave see his notes DPHR8133 on hill below a station sort of at corner before snow get Macraa siltstones beds ~ 30 cm ofc 10ft square So 135/55 S

DPHR8134 at ofc top of snow slide get light grey & dark green phyllites typical upper Grit get So 135/75N S1 125/35N mainly grey banded

DPHR8135 So 108/47NE S1 125/23NE green & grey phyllites in HG His is gully exposure of Dave after he knocked knee

DPHR 8136

Smoky quartz feldspar porphyry dyke. Feldspars 1 - 2 mm slightly zoned and slightly rounded greenish aphanitic ground mass - slightly calcareous.

Sat 27th

Helene - 3500N 15W to 3000N 15W
→ 3000N 00

Peter 2500N 15W to 3000N 15W
→ 3000N 30W then 2500N 30W
2000N 30W

Cathy 10N 15E → west to ?

Tues Moon Free
462-9022

Sun 28th

Flew w/ Joe on Mtg
survey - everyone else on
Mtg

Mon 29th

Weathered In

Tues 30th

Crumbies start at splitting lines. Joe on Mag survey

I walked out of camp down line cutters ridge

Black cherty float with siliceous grey wea. shale chips ~ 1750 S & 1900 W

DPHRB137

Ribbon banded Black chert as at linecutters camp definitely UDM. minor Folds seen no Azmuths available. Very stron So 130/30 SW.

also So - 245/30 SW

No OTC on Heading to 25NE/SE go to 2670 N/SE the Bearing 360° (200m) Pgtd at 255 1170W

DPHR81 38

So 60/11°SW

very siliceous shale with carbonaceous graphitic interbeds that are on the order of 10+cm and commonly qtz veined

The majority of this ote is thin banded 1mm to 2.5mm blk very siliceous shale. This is interbedded with a black siliceous chert from .5cm to 10 cm. This could just be a gradional variation. I believe that I am recording So as there are some poorly developed monoclinal flexures in this unit and the occassional suggestion of compositional variation.

This ote is right on stream at L 25+900W first reading 24950S+900W at →

25S + 900W / The rock plunges at 075/75S. but appears to flatten slightly to S. The shale at this ste is typically finely.

DTHRB139 /

Subcrop of very fine grained poorly sorted rusty to dark grey weak sandstone. Medium to dark grey is relatively soft but weathers in massive ~~chunks~~ .5m to 1m peices that are difficult to break.

south side of creek 50m above it 200m from confluence.

DPHR8140

Nearly due North of 8139

Light to dark grey slightly rusty weathering silty phyllite. Sometimes this was a light grey. It's relatively soft and will break to paper thin partings - only slightly (tinily). This is up stream of 8118 50m above creek.

Slumped? 025/30NE S1

DPHR8141

Same Approx location as DPHR8118

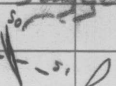
Rock is as DPHR8139 a ~~coa~~ ~~mica~~ poorly sorted sandstone with ~~quartz~~ up to 1mm lithic frags - coarser than 8139. slightly rusty wea.

Good So 165/60NE

From bedding stripping - can see the change in lithology of the samples. S1 predominates at 155/30NE best shown ~~also~~ in shaley interbeds.

So again 170/50NE showing sandstone beds 10 cm to 1m. in this location with shale ≈ 10 cm interbeds.

No way of checking tops - info suggests overturned



There is ≈ 15m of rock section 80 sandstone 20% shale med - light grey variably rusty wea. has lighter or darker bedding lines on S,

Not on Map

Subcrop poorly sorted fine grained sandstone as DPHR 814/ from 2550S 240W to 2500S 240W. in trees. to 2450S

from 2000S 340 to 2050 340 blk chert rubble

at 1660S 340 to 1700S 340 blk chert subcrop

1350S+340 W UDM fine grained sdst float 1200S+340W qtz v/ in shale bx & chert 1200

Blk graphitic shale & chert ~~FSLS~~ 800S+ 100W float

Blk shale & grey siltstone 700S + 180W float.

DPHR8142

THURS - 9th - Arrived in Watson LK

Fri - Drove to Bear Pass

Sat - on Hy

Sun 12th 1981.

DPHR8142

BM viewed siliceous graphitic cherts near contact of EAST. minor sheelite? in veins will assay for Cu, Pb, Zn, Ag, Au, W. on Hy about camp at Jim mustard's

JM 8122

Sun July 12th 1981

Hot & sunny although I feel sick.

On Sun Moon property landed at High knobs on South 20S 18W trying to straighten out grid locations.

~~DPHR~~ DP8143

On Moon 20S 21W line at 89°

Grey phyllitic shale - I not sure what unit $S_1 \cong$ 010 from subcrop So may be $\cong$ to that from float piece may look like grit grey shale but no congl. seen minor Leiseg ang dips

Notes on 10m lines

BL at 2000S runs 184° both
Foresight & Backsight

2000S going W from BL
goes 090° going East 86°

for 1° 80m then 30m
90 for 30m then to 80 from
120E to 150E 84° 150E 71BOE
180 - 300E @ 86, 300-330 90°
330-360/85 360-390/85°
390-420/90° 420-450/87°

150 480/510/95° 480/510/87°
510 540/570/90° 540/570/85°
570 610/89° 570/630/90°
Continue on
630/660/86° 660/690/89°
690/720/87° 720/750/85°
750/780/85° 780/810/84°
810/840/86° 840/870 88°
870/900/ Rel straight 900/930/86°
930/960/80° 960/990/80°
990/1020/90° 1020/1050/89°
1070/1080/89° 1080/1140/89°
line comes out at @ 1150m
at ~~BL~~ TL 10E 1860S

TL 10 E

to south of 1860 s is 175°

for ~ 100 m

1860 S. 1830 / 357° 1830 1800 / 00°

1800 1770 / 00 1770 1740 / 00°

1740 1710 / 358° 1710 1680 / 358°

1680 1650 / 358° line to 1590 wanders

± 355° then goes 0° for to 1500

the 355° to 1470 - creek // at

1500 s 1470 1440 358°

1440 / 1440 / 00° main creek 1430

00 to 1350 S 1350 1320 359°

1320 1280 / 358° 1280 1260 00°

1260 1230 / 000 1230 1170 00

1170 1050 / 00 1050 1020 358°

1020 1000 / 00 1000 960 359°

960 900 / 00

Moon

L 105 from where it intersects

10E to BL 1120E

105 1000E to 105 780E 090°

7801 690/86° 690 660/00°

660 600/88° ~~600~~ 600 570/187°

otc at 570E 105

Overturned trees expose fold axis dark grey to black wea. with minor rusty stains

S 165/57 NEE

this rock is very phyllitic with numerous minor folds usually monoclinal exposure poor, some question if otc is just subcrop. medium grey on fresh surfaces very soft sol

DP 8144.

570 7330 88° 330 7300/80

300 7240 88° 240 210/90

210 1180 ~~1~~ ~~88~~° 180 120/~~88~~ 90

120 90/90 90 00/91

July 14 / 81

Day Journal not filled in

Joe at Hy all July except
12th at Till, 13 on Frances Lake
14th on Till with Doug

Doug & Joe on Till
sampling Hole profiles.
Till P #1 at 2000 N 1020W

1A - Podzol 2 cm; ash (grey 1-2 cm)
Organic 35% ash 20%
5% transported Regolith
slope ∠ 30% ±20°

1B - slightly ruddy brown no sharp gradation to lower horizon except lower horizon slightly lighter brown 20% gravel - this would be a typical B sample 20 cm

1C - larger rounded cobbles of Devonian sandstone 5 → 10 cm with two distinct Phi sizes the smaller being ≈ 2 cm on elongate axis. This is typical subglacial & slope transported - Probably underlying rock is Devonian sandstone with alot of quartz veining w/ Au.?

NEVILLE CROSBY INC. METRIC LEVEL

Till P2 at 2000N 1240W
Slope < 15°

P2A - Podzol 10 cm

P2B Ruddy B 20 cm gravel 15%

P2C lighter Brown B 30cm
more gravel gradational contact
at base no large fragments.
gravel 30% long Axis
≤ 5cm end of org roots
These soils have only minor
amounts of clay.

P2D. 30cm + gravel 0 to 40%
no org. roots all gravel
appears transported
no rego sol. Subcrop Float
to last location was Dav
sandstone.

Till P3 at 2000N 1260W
Slope <10° near small
depression

P3A - top 5 cm podzol

P3B - light grey Ash 10 cm

P3C - light brown minor org.
5 to 10% gravel 20 cm

P3D - dark brown 20 cm
20% gravel ≤ 10 cm Float
rounded no division between
D & E

P3E ≈ 1m down dark brown
30% Float gravel.

Till

P4 2000N 1380W

Slope 15 %

P4A 10 cm organic podzol.

P4B 10 cm Dark soil w/ org

P4C 20 cm B Horizon with minor orgs.

P4D 1 m down gravel 20cm round 40% light Brown

Till P5 2000N 1500W

Slope 15°

P5A - 20 cm organic Podzol

P5B - Transition between A & B light grey Ash mixed in organic soil - Ash 20% org 30% 15 cm

P5C - 20 cm B horizon minor blackish band ? old organic ? red Brown

P5D Med to dark Brown 1½ m gravel 30 % cobbles to 15 cm - all rounded - mass parked

Till 1620 W 2000 N
Till P6 30% slope

P6A - Black & dark brown org
Podzol 10 cm

P6B light grey to brown
B horizon 20% rock
chips 15 cm

P6C very rocky 70 cm 60%
rock Black micaceous
phyllite chips & larger 20 cm by
20 cm qtz sandstone with
mica - not apparently alligned
in sandstone but bordering
phylite mica's alligned -

Till 1740 2000 W
25% slope

P7A 15 cm Ash & Podzol

P7B med Brown B good
5% rocky 20 cm

P7C - water at Bottom of hole
@ 7 m rock 50% wet
sample reached?

Till 1860 2000N 5% slope
near top of rise

Till BPA - 10 cm Ash & Podzol

Till BPB 10 cm Ruddy Brown soil

Till BPC - 10 cm light brown soil

Till BPD - Rock chips etc 80% of
rock Black phyllitic
graphitic shale minor
quartz vioning.
S_1 at 335/75 E

Till 1440 00 slope
at top of Rise

Till 9PA. 10 cm Ash & Podzol

Till 9PB - Ruddy brown 30 cm
grades into C

Till 9PC light brown directly
above subcrop. C soil

Till 9PD - Regolith of Black phyllitic
shale 045°/70 - S_1

July 15/81

Sunny & hot
on moon with Cathy & Helene
Landed on Gulley at trailing edge
of Ridge N end of property

DP 8144 - at landing location
S1 165/20SW - 165/80 - probably stumped
Very pronounced S1
relatively coarse quartz sandstone
quartz fragments 7 to 1 cm. in a
mottled grey to black matrix. The
closest thing that I've seen to this
is shear grit quartzites.
Common internal rust staining.

DP 8145
about 200 m South of gully
Sub crop? below overturned tree
this outcrop is only .6 to 1 foot
below surface.

Spotted rel. soft grey phyllite
has a minor alignment in a 2nd
direction? S1 is very pronounced
minor Fe staining & spotting through
rock. Rock is light grey (green
range) with chloritic clots 1-3 mm
and quartz frags? 2 mm which stand
out in relief on weathered surface
aphanitic micaceous sheen on clean
surfaces only mineral pronounced
- this looks like sample I was
found on Hy above little lake
S1 175°/vert may be large boulder but float
suggest same unit South of gully.

DP 8146

Med. grey weathering resistant fine grained quartz sandstone with interlayered (minor) black phyllite 1cm thick. This forms one outcrop 15 feet long & 6 feet thick (wide)
So 045°/30° NW
S1 340°/vert

nearby S1 355 vert
This unit much like ~~other~~ 8147 but finer grained.

Could be found as beds in grey green spotted phyllite
This slope could be very close to dip angle if dip flattens out and we may not be looking at much of a section.

Beds .5m to <1m thick
minor quartz veining. This is isolated outcrop in the middle trees.

DP 8147

A finer grained qtz sandstone. more intensely veined outcrop no structure visable although line of outcrop (poor) goes at 030° as does gully. subcrop of this between 46 & 47.

B152

S_0 ? 045°/45 SE

S_1 : 180/190 vert

These Readings are very questionable possible slumped exposure at edge of gully

is quartz rich sandstone as S1 very fine grained to light grey siltstone/ very rusty wea fracture surfaces.

Bedding not well developed & questionable if outcrop is in place. At 250m 30W

Good S_1 160 / 55NE

S_0 still questionable but taken from 30m of rubble and ote

~ 60m N of B152

S_0 ? Not Available

B153 - ~~green~~ South side small gully - Orange - butt wea. Black lmst apparently in grey phyllitic siltstone sandstone - lmst sample B153

8148

S_1 345/20 Sw

next gully up slope

S_1 pronounced in a micaceous grey green phyllite with dark grey phyllite zones - dirks dark grey could be the rocks unweathered colours are example. S_1 not entirely planar - wavy. often rusty tan to light brown on weat. surfaces. the grey areas are softer than the light grey green - the grey is silty - whereas the light grey green is sandy. could be ~~the~~ gradational contact to sandstone?.

8149

gulley going 115° on E side ridge

limestone breccia with fragments of beforementioned units frags up to 30 cm not rounded. outcrops 10 m by 3 on both sides of gully - subcrop only on west. West side doesn't appear as breccia.

8150 LMST Ridge 10 m by 3 m

Rubble on top Float indicates LMST from 49-50 LMST Sx no structure available

8151 at 2750N 3000W

relatively massive grey green ~~sandstone~~ quartz sdst minor Fe stain.

frags 1 mm to 3 mm. some clean-pure white grey LMST w/ Fe coating float this is 20m long at about 90° rubble subcrop.

NEVILLE CROSBY INC. METRIC LEVEL

June 19 -

June 18 Turn DAP Jas DST
in office
Peter & Peter Mag High
Joe Cathy Helene James
on media all times

~~June~~ 19 Turn DAP Hy
Peter & Peter Mag
Joe Cathy Helene James
Creeks all Hy.

DTB/54 ~ 2 km South of
405 00 on creek old
station here.

Very promanent S, in Rusty
weathering to tan shale
mm chips to dinner plates
so not ~~ready~~ readily visible
S, partings mm thick

S, 110/50 N
Very fine silty light getting
quartz seen in this shale - otherwise
no clastic component seen.

100 m upsection
So 126/80 NE
S1 108/57 NE
Beds from 1 mm to 4 cm or
71 m.

DP8155

Grey BLK shales, limestone more massive than the Lupine limestone but apparently the closest thing to it.

Just 200 m N E of chopper pad at 40005 00.

this otc breaks in plates from .5 cm to ~~3~~ 15 cm

S1 variably pronounce so questionable

both brown to ~~red~~ med grey weat.

S0 030°/75 NW fracture

S1 120° / 20° NE

→ Sim gost 140°/90

upstream Sim found a Black shale this shale is much like the paper shale at 8154 but has limestone interbeddS it is more massive his sample is 2 cm thick by 3cm by 10 cm see his sample 81107 series

DP8136
well sorted light grey sandstone
½ way down hill facing rounded knee creek.
This looks like reefer Dave
Mapped at top of Hill
Probably plots 100 feet Work
& up hill at Dyke
Rubble crop - massive
2 m boulders heavily rivuled
Grit ?

Mon - went to Doig w/ Peter & Peter I have Pneumonia

Tues - with Jim chopper hopping.

ore
#281547 - grey banded shale with interbedded quartzites

So 135/65 NE

S1 100/20 NE

across gulley
upon looking shale & cherty shale
So 140/40 SW

I believe the med grey shale with light grey silty layers 1m → 3 m is a grit unit? possible UDM? but the unit below is siliceous bedded material UDM. 1 → 3 cm more siliceous beds in a siliceous shale S1 predominates S0 poor?

Downstream 50m across creek 140/40 → 20 W
this is far more siliceous would be mapped as Ribbon Chert. Fault down valley?

July 22/81

DP in Camp mornings.

In camp All day up Jim
23 Camp 1/2 Day July

July 24/81

24 On Traverse Forgotten Ridge
Below linecutters

DP81 57

Variably layered chert to siliceous siltstone. Ribbon like texture seen at some locations whereas more massive softer more carbonaceous material seen also - tentatively would put this more in Ribbon bedded chert of this etc 20m from chopper Pad on Forgotten Ridge below line cutters camp.
So 120/45 SW ?

~~DP81~~ Just 20m at 190° to 30m OTC at 130/20 SW this is far better OTC showing Ribbon Chert 1cm to 3cm with shaley inter beds 1cm more massive Si rich areas from veining and folding? overall unit has same strike.

More in top of found rugs with rehr sulphides weathered.

This OTC is ~20m from SS 2580W. at bearing 190 at 2610 Ribbon chert slightly folded 120/30 SW

NEVILLE CROSBY INC. METRIC LEVEL

DP 81-58

ONNO Camp INT
Z 25 m at ≈2200'
Quartz feldspar porphyry
OTC 20 m Sz.
Slightly rusty stain on Rock
1ST 10 m weathered rim
center portion is usual white.
Z 20 m South of 2570.

DP 8159

Ribbon bedded chert vaguely siliceous beds 1 cm to 4 cm to 10? + larger ones are veined
So 110/45 SW, minor flexures seen 15 m S (updip) of 2505 2660 W. (2 lines)

DP 81 60

150/50 SW this is S, So can be partially observed on some pieces orientation ± 30° possible steeper dip. Suggest that it may be 120 - see sample why this excuse need.
Talus subcrop 20 m upstream the talus shows some finely laminated pieces but this otc is medium grey with light grey splotches

NEVILLE CROSBY INC. METRIC LEVEL

and So features. this etc
then so weather in
blocky fashion then crumble
to pieces 5cm by 20cm
or less. - Definitely not
or flat platy paper shale
this etc is on stream at
2505 + 2500W almost
where the crosses H_2O.
135 /20SW S_1 ?
at 2505 2500

355 /70 W is So on N side
Creek looks like it is the
N side of a Antiform. Plunging
to 230°

Note major quartz sandstones
2cm thick very fine grained
Pb seen in quartz ½ in
very graphitic shales

2160m downstream
Line 500S 3180W.
very quartz veined fine grained
sandstone with graphitic
ripped up frags.?

The 250S line is ? Fucked
Bedding folded here
So 355 varying dip.

DP81 61

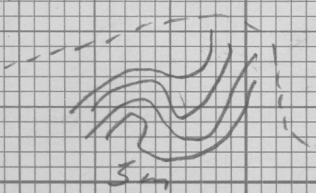
Across stream gully.

Directly across the rock is the same as lower 61 All quartz veined & Dipping crazy 355/vert then flattening off

The end of this ofc - downstream this ofc being in patch of aspen forms a strike ridge with S, ? So prominent at 180/35-45 W. The variability of this unit suggests the more massive grit viewed mattered is part of this unit

This ofc END at Creek & 500 S line

Edge on looks:



looks much like Ribbon chert

SS 3240 W at Base of ofc

≈ 400 S 1200

OTC in Gullies

S1 070/40 NW

DP8162

very crumbly grey weathering with occasional tan stains (zones rusty). Poor OTE all samples smell slightly funky but overall light grey color makes me not call it Paper shale

100 m down stream N side

S1 130/70 NE

OTC has 2 cm to 15 cm beds that are internally DP8163 shaley.

this in hand specimen looks more like a massive paper shale but is not

slightly rusty weat. light grey silty layers limit Say So = 130/70 NE

INTERNAL color dark grey → Blk graphitic shale partings

July 25 h. EW Camp
morning
out at Alt

July 26 w/ Jim early

July 27 in Camp

July 28 out Prospecty
on Hy

10S 2050 W - 2650 W

20N Bl 1930 N 1750 N 60 W

5N 2200 W (1980 W) 2160 W 2220 W).

5S 2000 W 2450 W

25OS 2210 W 2400 - 2500 W

DP 8163

Fdly quartz intensely veined, varies in colour from mauve black to tan - the majority is tan & is veined & altered minor boxwork & some sorting

10S 1900 W.

Black siltstone shale, interbeds clay cleaves < 1 cm & silty interbeds occasional very rusty stain. Sample taken / Rock Creek chem?

Sandstone beds .5 m to 2 m

W. Fluorite in qtz veining

Note this may approximate a dip slope for may be going slightly down section based on this ote although minor folds common & otc may be slump down hill otc is 50m long 7m true thickness

S1 335/20SW
S0 335/15SW

Location 105 2050 mN

No apparent answer for anomally. IN float have
- qtz vein material
- Blk resively siliceous shale chips
- Fragments of ribbon chert.
- wispy shale
- minor Bakby quartzite

locally have black chert ribbon & relatively siliceous black shale - minor INT.

Suggest ① quartz vieing from INT.

Location 105 2650
manly cherty material that is heavily vienced minor amount INT float suggest V/ location ≈ 15m from creek

Location 1740N 00

from 1730N 00 to 1770N + 10E
a 10m swack of
Quartz fieldspar porphory.
from trees it probably
continues over at 1900N done
this is undoubtably a good
reason for this anomaly.
this subcrop is weathered
to frags 20cm by 20cm
by 5cm w. 7cm
weathering with 1mm
quartz eyes ~~fresh~~ unweathered
fieldspars.

1750N 60W
silicified massive blk
chert - qtz vt would
expect this to be INT
Alteration halo.
sample taken maybe rock
geochem but this is probably
very localized
although I have seen this
rock all the way up from
1950
at 1725N 30W subcrop
wispy shale minor Py

Zinc Zap

NEVILLE CROSBY INC. METRIC LEVEL

END of INT Talks
1750N ? 230 E
S this is undoubtably incorrect
must be from pacing
1780N 760E

STATION #		NTS	
N			E
lithology		color	
unit		S	strike dip direct.
S	strike dip direct	L	azimuth down plunge plunge

First day back on Hy
INT just at forgotten
ridge down backbone from
chopper pad past
2600W 720S - ≈ 700S
is ridge line. This
INT continues down ridge

AREA 1
B) 730S 2400W
INT Boulders locally prob.
represents subcrop. rock
2 samples of siliceous
very quartz ∥ rock

STATION #		NTS	
	N		E
lithology		color	
unit		S	strike / dip / direct.
S	strike / dip / direct.	L	azimuth down plunge / plunge

this may be locally alter from intrusive. could not find sample location

Area 1

A) 2400W 900S

77,450,280 RK

on hill side no visable OTC old claim line runs at ~ 090S. - it's a wonder that they didn't sample location

STATION #		NTS	5	
	N			E
lithology		color		
unit		S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge

Sun / Moon

a) 250N 600E Pb 2nd

B) 500N 540E Pb

C) 1000 ~~W~~E 240N

Brad

400 ~~E~~E BL 7100N

500 ~~E~~E BL 7000

600

700 Get Bank INFO

800.

900

Not mistake

on Base Line

or 910?

run 120m east & 120m N

at ~~540~~ (C)

STATION #		NTS	
N			E
lithology		color	
unit		S	strike / dip
S	strike / dip		range

Sun Moon

SM1 - Grit quartzite ran to rusty brown (Py < 2mm) subcrop to > 10x20 feet talus - most float similar

SM2 - Lmst as seen before - Dolomitic occasionally has a "cherty" look to it as in sheen & texture. It is probably breccia unit seen in Grit occasional higher geochem why? no sulphides seen - grey weathering

STATION #		NTS	
N			E
lithology		color	
unit		S	strike dip
S	strike	dip	

SM3

Grey Phylite w/ occasional quartz v/. These v/ have Py ↑ to 2cm nodules (oxidized). Phylite has partings along S_1? - very prominate samples cleave from .5mm to 1mm they break in fine chips But samples fist sized tend to be .5cm to 2cm thick. Occasionall reddish cast. S_0 is questionable.

STATION #		NTS	
N			E
lithology		color	
unit		S	strike / dip / direct.
S	strike / dip / direct.	L	azimuth down plunge / plunge

500N 540E

(station labled 540W)

So 70/170 S

S, 170/80 E

Grey grit phylite apparently dead sample of chips 10m to east taken.

could line be labelled incorrectly on bags also? Thus anomalie is on W. 540?

minor Pyrite seen in grey phylite w/ qtz vn also fg qtz sandstone (Dyke like) right below dirt hole - have sample for assay

STATION #		NTS	
N			E
lithology		color	
unit		S	strike / dip / direct.
S	strike / dip / direct.		strike of fold / plunge

SM4 Near 1000E
230 N. on cliff 10m high
20m long. S_1 180/40E
S_0 70/vert.
sample taken gr.
limonite oxide on grey phyllite
S_1 very prominate

At
600E / 250 N soil taken
in gulley Hydromorphic?
Sample A - dirt - mainly org
Sample B - float in hole
C - ote. S_0? 180/25NE
or 70/80E
S_1 130/30 NE good
grey Phyllite

STATION #		NTS	
N			E
lithology		color	
unit		S	strike / dip / direct.
S	strike / dip / direct	L	azimuth down plunge / plunge

HT 1

Hy Trench 1 at 2400 W 900 S. No Rock OTC

1A - 20 lb sample of B. horizon near 3 → 4 above a hard pan. very little ash seen in trench if any but original dirt hole had some visable (1 → 1.5 ft down)

1B. ~ 3 feet down sample is clay like matterial with 10% rock fragments. fragments up to 30 cm by 30 cm. A layered texture parallel to the soil hill slope is apparent

This layered texture is wavy & to 20 cm partings it does not appear to cause any alignment of the rock fragments.

Fragments run the gambit of composition but ≈ 80% black chert as seen at Haccutters camp. Rest is qtz w/ ∈ rounded INT. Note large weathered qtz w/ frags at top of trench may have had sulphides but are now weathered.

Chert other has qtz w/ with occasional Py stains.

HIT 1C - as B at 4-6 feet

HIT 1D - at bottom as B - at 10 ft.

HT2
High Trench 2
at 240W 840S
This was down directly upslope at HT2 it is closer to the top of the hill and the slope angle ~ 5° less at 28°. This was 60 m. upslope to avoid the deep OVB. found in the last hole and to get closer to the top where otc at Blk chert & INT otcs.

HT2A.
top 1.5 feet - slightly better defined soil here but no sharp edges - at HT1 a) soil black 2A is ruddy brown mixed ash (white) very soft. slightly more rock than 2B

HT2B
soil @ 2-3 feet
just in more brown material not as red - gradational contact - very little rock
HT2C just above layered clay seen in HT1
not as sharp boundary as in HT1. 4ft. dwn. 30° rock chips as comp same as HT1
HT2D. as in HT2
8ft down. clay has layered texture parallel to slope same as HT1.

NEVILLE CROSBY INC.
METRIC LEVEL

HT3

Hy Trench 3

1200W 540S

68, 890, 398

Trench is ≈ 25ft long with good exposure of Rock - it is apparently in chert wispy ~~black~~ unit. to more massive chert unit ET fractures in large blocks. Rusty pyritic stains are common on large blocks. So ε S1 ? wisps trend at

S1 010/30 W.

Plane surface parallels slope that may be fault or So ?

? is 030/30 E

No major quartz veins although rock ~~is~~ is quite ~~hard~~ siliceous.

Overall this looks like fault with greenish mineral common in rock - elongate ~~stikea~~ slickensided textures.

Sample A from top 5 west feet

B 5 - 10

C 10 - 15

D - L - R at BC contact

E - L - R at AB contact

NEVILLE CROSBY INC.

METRIC LEVEL

cont

larger duplicate hand samples also taken from this location

SM-T-1A E Left to Right

Left 6 feet 2m

SM-T-1B - ~~Bottom~~ 4 feet 1.5m 2m

SM-T-1C top 6 feet. very soft phyllite B was very gossanous appearance. light white yellow to ruddy

Dup sample for SM-1B

Doug

PERKINS

137