

896434

W. J. MC MILLAN

~~_____~~
DAY BOOK

LEVEL BOOK

370 WJM

~~_____~~
DAY BOOK

~~_____~~
1972

1972

Geologist No's

1972

M^cM — 15

DB — 16

NJ — 17

BI — 18

DMVC — 19

SL — 20

Party chief W.J. McMillan (WJM)
crew D. Blanchflower (D.B.)
N. Jorgensen (N.J.)
B. Isterwood (B.I.)
D. Coombes (May 14 to June 5)
(DMVC)

June

5 Victoria to Highland Valley Sunny

6 Organisation day around the Sunny
trailer base camp

7 N.J. Sunny, cloudy, local rain
Brassy Creek area -
kv/N and kv/N/Jr contacts

D.B., B.I. along tracks from
Semlin to Wallachin

on vols.

WJM - checking work done
by DMVC east of Barnes Lk.

8 DB to Indian gardens area - Sunny, cloudy, showers
kv/N contact

NJ to Brassy ck area then
fossil hunting

WJM Kamloops/Chilcoten? checking
near Barnes Lk
BI taking in linear maps

June

Sunny, Int. Showers

9 D.B., NJ - Indian gardens
area - WJM also
for part of day

BI rock cutting and
Lineament maps

Cloudy, Showers

10 DB, BI traverse NE of Forge

Mtn - Guichon / hybrid contact

NJ around Tunkwa and Nicola
of c's in 10c, also along powerline

WJM Bruce Farquaharson tour

Cloudy, Raining

11 In camp cutting, checking rocks
and getting plotting up to date.

Preparing for fly trip.

12

Rain, Cold
Snow on Hills
Barnes Hk road incredibly
slippery.

D. B., N.J. packed & left
for Chataway Lake fly camp.

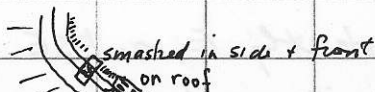
Took two operational bikes, one
not working (will drop it in Merritt)

WIM took Glen Rouse and
Ralph Murray (?) to Tertiary localities

- collected K/Ar samples & pollen
samples.

B. I. cutting rocks and cleaned
up trailer

Saw accident on Hwy - two
pickups smashed up - but did not
hit one another



Chap from Indian Gardens
Ranch said that:

* Inland Copper percussion drill near
Indian gardens

** Fellow from Calgary also working near there

confirmed by
my crew.

Rain, cold, warming
& clearing in afternoon

June 13

D.B., N.J. Chataway Fly
Camp

WJM worked on Tertiary
location map & sections
then went to Alwin.

Chatted with Webb Cummins -
arranged visit undergrd
Friday morning.

* Porphyry type mineralized
∴ pre-ore.

** Pyrite cubes occur in
post-ore grt - calcite - mud faults

~~***~~ ore continues to trend
consistently E or ESE - where ore
stops it pinches out over short
distances.

Working on #2, #3 zones now

- mining by longhole stoping.
- Porphyry dyke very consistent thru the mine - dips $\approx 50^\circ$ SE strikes N. The "main" fault is likewise very persistent.
- Mine Engineer - Ian Murray
- Mine Super~~visor~~^{intendent} - Art Datto

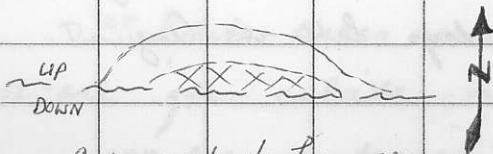
Suggested we arrive at 7:30 AM so we can let ^{stuff} super boss know where we will be on days we plan to work there. I said 2 days soon and 2 days late in August.

cloudy, sunny
intervals, odd light
shower

June 14 I went to Bethlehem Copper
in A.M. - Pete in Vancouver
so desert with John Bellamy.

The J.A. is "bounded" on the
south by a fault - north side
apparently up - is it my H.V.
north side fault?

The deposit has a Kspas core
near the fault and a H.V. zone
> 1% which is fairly extensive.



Arranged to log core and
examine the pits.

Went to Lornex in afternoon. Can
log core on weekdays from 7:45 to 3:30.

Mike tells me that one grade ^{trends and} ~~is~~
 mineralized fractures strike NE and
 in the case of the fractures, dip
 southeast at $\pm 50^\circ$.

Have taken > 50 MT out of ore prod.
 at $\approx 30,000$ TPD

Phoned AFS - some gear on the way
 BI working on lineation maps
 DB, NJ at Chataway Lake

Sheba - 6 holes drilled - some
 colors - core all gone - where?
 phone her Salehen + ~~find~~ out.
 find

Sunny → cloudy

June 15

W.S.M. & B.I.

Started out by going to Ashcroft picking up film & propane then to Kamloops. Tried to see Can Sup & tried to get maps reworked - ended up not seeing Can Sup & getting the maps printed instead. We had the Int. 4-wheel indicator switch replaced but the replacement was defective (new one ordered). We also picked up the bike from Kamloops.

On the way back we traversed along the tracks near Savona to check a complex area. Started ~ 4 P.M., back to truck by 8:30 P.M. dinner in Cache Ch then home by 11 P.M.

cool, windy, sunny \rightarrow cloudy

June 16

Went to Alwin for an underground tour with Webb Cummings

Work there won't be a problem.

Want me to arrive by \approx 8 AM

~~to~~ when I'm there.

Then to Highmont (in time for lunch!). Partially arranged logging with Al Reed. Will finalize it next visit.

We talked of his projected faults - waterhole (then Gnarred Lk) Jericho (gully between up. & lower adits)

Bn-rich stripes going across the countryside?

H.V. old rift - what gravity expression? Compare to classic rift areas.
(Guichon ck another?)

Bn Ridge - Gaza - Nat showings line up?

June 16 (cont'd)

Highmont dyke joins up with
Lornex gtz pp? New trenching!



\$100,000 program on Jericho - IP
done aeromag by chopper for JA
to Mamit Lk west of Roscoe Lake

Picked up pathfinder ground -
At least thought about what to
do yet (Vancouver picked it up!).

Have staked an area in Barnes
Ck along Lornex fault projection.

June 17 Did half of pipeline with BI - Cloudy
He continues to be rather inept.

Shopping, Laundry etc in P.M.

DB, NJ back from Chataway in P.M.

June 18

Plotting and rock checking day

June 19 Went to Chataway - BI traversed Cloudy, shower
near Gypsum Lk, DB + NJ east
of Cougar lake. WJM in trenches
near Gypsum Lk.

June 20 Rain early - WJM, BI to trenches
near Twilight Lake after mid-morn-
ing. DB, NJ "opened up" a road
east of Cougar Lake

Cloudy, a few showers

June 21

- WJM to trenches south of Gypsum Lake, then #4 zone of Chataway and finally down to Aberdeen.
- N.J., B.I. to valleys north of Gypsum Lake grid
- DB to logging roads east of Cougar Lake

Back to Trailer in Evening

June 22 Plotting, rock cutting, etc.

June 23, 24, 25, 26 Off - To

Vernon for Theresa, Emma & I -
to visit Ken, Ratic & Maya
Daughtry

Weather scruffy - cloudy, cool,
showery

Cloudy, Cool

June 27 Three traverses in Guichon Ck area east of Forge Mtn. B. I. blew his traverse ^{along Guichon Ck -} A only got $1\frac{1}{2}$ miles + then back tracked. DB on bike then traversed north of Guichon Ck. ^{traversed} WJM & NJA from end of road east of Canzac ^{camp} Road to Guichon Ck.

June 28

Windy, Cloudy, Sunny
periods

DB, NJ, BI to Tyner Lake for two weeks.

WJM to Bethlehem - talked to Pete Tsaparas then worked on East Jersey pit

— When is summer going to start? —

June 29

Sunny, cumulus
clouds

cool to warm

Spent the day on the E. Jersey

pit — mainly at the south end —

complex of dikes and granitic

rocks. — SLOW GOING!

DB, NJ, BI at Tyner Lake on

Fly Camp

Cloudy, Cool

June 30 Bethlehem — Jersey pit

+ E. Jersey

DB, NJ, BI Tyner Lake

— report submitted ^{complete} ~~valued~~ to here — 8

Bitterly cold in AM,
warm in PM, Sunny

July 1

Finished E. Jersey area —
worked roads from Iona north-
ward.

Crew at Tyner lake

July 2 WJM — sunny, nice,
some plotting
§ Cutting — overall a day off.

Crew at Tyner lake

July 3 WJM — ^{sunny, warm} ^{sunbarn} Finished
First

roads south of Jersey got to
edge of Huestis Pt.

July 4

Sunny, Hot

Worked Huestis Pit all day - one more day should finish it off.

Doug back - has moved camp to "Aberdeen area" on Guichen Ck. They are ahead of schedule.

July 5

Sunny, Hot

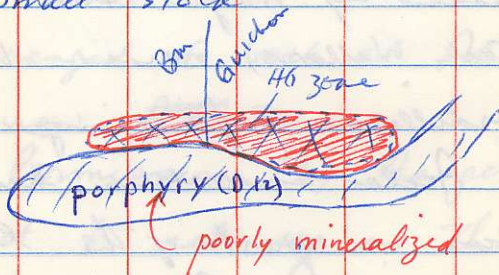
WJM in Huestis Pit - pretty well complete - will have to spend time at bottom of pit AND bottom of Jersey later
D.B. M.T., B.I. at Guichen Ck
fly camping

July 6

Sunny, Hot
cumulus clouds

Spent the day first
plotting, then up to Bethlehem -
looked at core with Pete
Tsaras & John Bellamy then
spent time in bottom of
Jersey & Huestis pits.

The K-spar-rich core at
JA is a "Bethsaida" dyke
or small stock



HG zone not intensely shattered
according to J. B.

Second dyke (Sheba-type - ie D1)

may help to define fault movement on S
bounding fault

DOT LAKE = Radio, channel JL
(Chataway camp)

Sunny, cloudy
warm → cool

July 7

visited by Mike Sanguinetti
(Cordilleran Eng.) + JACK WILLARS
^{International}
(~~Mogul~~ ~~Contract~~) with ref. to
the Chataway property. in A.M.
To Highmont & set up for
core logging in P.M.

Chataway - western part
optioned by Mogul Int —
(Jack Willars) aided by
Cordilleran Engineering

Aselo Industries has an
option on part of the Chat.
ground also. Bill Coulter (VP)
involved — it have same Vice
Pres. as Chataway

Morning showers, cloudy,
windy, cool

July 8 At Highmont - logged
core

showers,
Morning 1 Cloudy, Cool, sunny
periods

July 9

Spent the day cutting and
examining and describing rocks.
Did expense account also and
paid some bills.

arranged to work at Alwin
tomorrow. ~~AAA~~

Permission by Ranger in
Merrett to set up in the
Forest Fire Suppression Camp
at Lower Nicola
(contact Don Wilson)

July 10

Cold, Cloudy, rain in evening

Alwin Underground work -
completed (?)

Spent some time tracing
maps in the office (had
a vicious headache &
upset stomach by then -
unable to eat in evening)

DON PRINGLE said

Alwin is talking with S. Seas
with regard
~~relative~~ to mining the main
(shaft) zone with a 200,000 Ton
open pit to start (for a good
bulk sample - grade so erratic
can't get a good estimate)

Alwin has grade probs & where
dilution was known (the access
adits) grade was expected to

be 3% - millheads say it was
2%! Were expecting to
mine at $2\frac{1}{2}\%$ - ~~is~~ working
out at 1.7% + compensating
by upping tonnage
- thinking of custom milling
ore from Jericho possibly.
(under open).

Soggy phoned at 11:15 PM -
he will be here 8 AM Monday.

Cloudy, rain (yetch)

July 11

At Alwin until 2 PM going over maps & sections then to Hornex & Bethlehem to set up ASB - ICG visit next week.

Crew back from Fly Camp for dinner.

July 12

Cloudy, cold

Staining, cutting, checking rocks and plotting.

Int. to Cache tk for oil change + lube

Pack rocks for trip to Victoria

July 13-16. off

Thurs Cloudy
Fri } ~~cloudy~~
Sat } Sunny,
Sun } warm

July 17 Crew plotting + working
on rocks

+ DB

WJM +

Bethlehem + Larnex

wrt IGC tour - with ASB &

Charly Ney

July 18

Cloudy, cool, showers

WJM & DB working on rocks, etc.

NJ + BI to Lower Nicola

to set up camp

Thunderstorms, sunny

July 19 Worked our way down via

Mamut Lk road to Lower Nic-

ola - visited Craigmont

DB with me, NJ & BI down

Gouchon Creek

Sunny, eve. shower.

July 20

WJM, DB - looking for Kingsvale
- sp Bage unconformity & collect-
ing fossils in Gordon Ck.

NJ & BI near Tyner Lake.

Someone stole MC7 which
BI was using - I have to
fault BI for being stupid enough
to leave the bike where it could
be seen by people using the
Tyner Lk road.

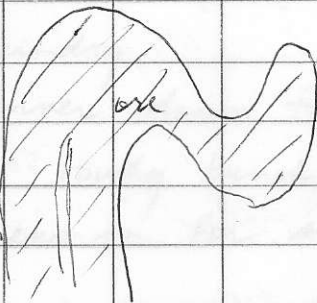
Sunny, rain in
aft & eve

July 21

@ balls - up of a day -
Doug took off to do a traverse
near Tyner Lk - the motor bike
keys went with him. We tried
to find the truck but couldn't

so NJ & BI traversed near
Craigmont pit. I scrounged
a colored Craigmont's 100
scale pit map for Tim Bristol.
Went underground with Gerry San-
ford for 2+ hours in aft -
not much to see.

Ore in "drag
folds" on a large
anticline



ore is actin. skarn

Rocks - andesite - marker - assumed
one layer - *the basis of their
structural interpretation"

The people at the suppression
camp are treating us royally -
they put a fly over our borrowed
tables & covered both with oil
cloth as well as giving us some
homemade bread today -
(Don Wilson - an ex-infantry (28 yrs)
warrant officer runs the place)

Sunny, warm

July 22

WJM to Promontory Hill lookout.
Looking at details of Nicola to
work out structure & section.

DB down powerline fm lookout
to Hwy.

NJ & BI - Fraverses east
of Gordon Lake

Phone Theresa

Laundry

Dinner down town (married
by a rowdy bunch of drunk
Germans in for supper)

SUNDAY
Sunny

July 23

WJM - traversing down road -
Promontory Hill

DB working on Coyle - Nicola
contact

NJ lower slope of Promontory
near Winney Ck

BI from Prom. Hill road ^{up} across
then along ridge of Hill S. of
cragmont (in Kingsvale)

July 24

Sunny

WJM "finished" ~~walking~~ road then

did walking traverse on west
slope of Promontory Hill

NJ + BI - head of Shuckelly
Creek + Jackson Lake

DB - Nicola / Coyle contact

a winning day - I could
have liked virtually all the
route I walked - BI broke
MC9 (can chain?) and DB
broke the other red bike
(hit a stick with the gear
change lever - no longer
changes gears) - thus we
are now a one-bike crew.

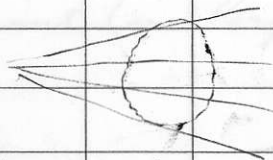
July 24/72

Sunny

WJM spent the entire day
in the Craymont office -
looked at sections, xfd
etc's fm 200 to 1000 scale map.

- Got a violent headache -

Guichenon
space
ore



tight
folds
NO ORE

ore
zone

VERY OPEN
FOLDS
NO ORE

Fold axes appear to wobble
but plunge generally south-
ward

one skarns followed laterally
- go into pure lot (no ore)

marker zones - andesite
flows - discontinuous
though - there really are
no true

- Faults - one through Jackson
hk has down throw $> 2000'$?

- one S. of pit offsetting
Kingsdale $\sim 2000'$ laterally.

- one N of pit down?

July 24

Sunny

WJM on Preliminary Hill

DB started on new road

above Gordon Ch

NJ + BI started fm Hwy

x worked up hill in Sp. Bridge

July 25

Sunny

WJM - In Craymont ~~area~~ office

all day

NJ, ~~BI~~ fm New logging road
to Hwy

BI head of Gordon Ch

DB New road - cont'd.

Dept of Agriculture
Environmental Land
Use Study

Studying Pleistocene
geol. of batholith
Have 1" = 2 mi photos
taken last fall

went to show "I love my wife" in
evening

July 26/72

Sunny

WJM - Broom Creek area

BT, NJ north of Craigmont

DB - had a doctor lance

& drain a boil of on his
backside. Has another Doc's
appointment tomorrow & Monday.
May not be able to traverse
over weekend.

Sunny

July 27

WJM - Broom Creek

NJ + BI north of Jackson
Lk

DB New logging road west
of Promontory Hill

July 28

Sunny

WJM Broom Ch then

Aberdeen then Chataway

DB logging road

NJ Petite Ch

BI Jackson Lake area

July 29

Sunny
Hot

WJM + NJ working on
Petite Ck checking interpretation
(WJM) & mapping NJ

DB - got bike from Vic's crew,
then worked on logging road again

BI worked off Hwy east of
Petite Ck

July 30

Sunny
Hot

Blue Bike (Handlebar) broken
Vic's Red Bike - odometer doesn't work

WJM + NJ: section through
Spences Bridge gp near Shackelly
Creek

BI: north of Craigmont pit
and south of Jackson Lake

DB: logging road above
Gordon Creek

July 31

Sunny, some
cumulus clouds

WJM - core logging - Chataway

DB - a balls-up day - Blue bike left

in Int. so DB ended up a chat.

- set him to core logging -

he took bike in ~ noon & had doc's

apptment at 3:30

BI north of Gordon Creek

NT - around Gordon Lake

Aug 1

sunny then thunder
clouds + showers

WJM - spent the day core logging
at Chataway - Jack Williams &
Clayton Powell?? of Int. Magal have almost
finished mapping & will begin to
spot holes for a modest drill program
soon. Aselo will drill near #4
(N4 W) zone soon - four holes
planned.

BI down Guichon Ck - found
one fossiliferous Coldwater? etc

DB finishing Nicola/Coyle
contact area near Promontory Hill

NJ finished Petite Creek
area off.

Sunny, warm

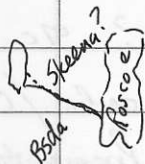
Aug 2/72

Plotting and rock cutting

DB to Vancouver in evening

G. Ulrych and Glen Davidson (BCIT)

dropped in in evening - they gave us a copy of their Mamit Lake work - looks excellent - they have just finished working on the N half of Path fender - gtz-eye D2 on N shore of Mamit



Teck will do IP + plan to drill - are also going to put in new lines on the Mamit Lake property.

* Gump hls much further south than we show - also have hybrid near the FIDDLER.

(Sunny)

Aug. 3/72

Plotting + rock cutting + staining

? DB left for Van. after dinner

Aug 4 left trailer at 5 AM for the coast & went to the office in apt.
(Sunny)
dropped MS + BI off on the way.

-scrounged Nick Carter's bike but was at Pearson's from 7:50 to 5:55 to get it - NO KEY AND COULDN'T FIND BIKE! (Sunny)

Aug 5 Took bike in in AM & had

a new key cut. Wasn't able to get a duplicate. Saw Puppet show then washed car & truck.

Aug 6 Gardened in AM. (Sunny)

Picnic with family in P.M.

(Sunny)

Aug 7 BI arrived and got the truck at 9:30 AM.

Eye doctor visit, then to office

Sunny
Aug 8 Cut lawn & babysat
in AM - to work in after-
noon - maps reduced after
data x fcd.

Crew to Puniamus Ck for fly camp
Sunny

Aug 9 Trip to Highland Valley.

Got 10 AM ferry - arrived
in Valley at 8:30 PM. Stopped
at Hope (1 hour, lunch), Hell's
gate (went on Air Tram, lost
camera case - recovered also) +
Cache Creek (dinner)

Crew on fly trip

Cloudy, sunny

Aug 10

Went to Dot Lake to
get map — visited Sho II



and to area with Chert
cut by Bm dykes

Logged core in after-
noon (including latest
Drill Hole ~~by~~ by Asele)

being logged by Mike Kenyon
a student from Calgary who
is with Cordilleran Engineering

A pretty blah hole with
chert at altm of fg 3.02?

Crew on fly top

Cloudy, Sunny
cool

Aug 11

Logged core at Hornex -

on 8 → 3:30 shift due to rules
imposed by Hornex

Got propane in afternoon

Met Bob Schmueck at Hornex

finally

Met Webb Cummings downtown -

Alwin was missing by shrinkage

stopping - found a few thousand tons
of 4-5% Cu under the old workings

near the portal.

crew on Pimaus Ok fly trap

Sunny, Cloudy
Rain overnight

Aug 12

- Plotted Bethlehem mat'l and looked at rocks.
 - crew back in evening
 - Quintana has drilled ~400' N of Foot Lk (nr Bose Hill) - all kv. Jim logging core
 - hit ppy near bottom of holes - ppy under whole area?
- Cloudy, Sunny

Aug 13

crew plotted & cut rocks

WJM to Sheba & looked at

all 4500' ± of 1972 core

Discussed traverses for next 9 days in evening.

Aug 14

Cloudy

worked on Bethlehem pit
rocks + finished plotting maps -
started talk preparation in P.M.
crew to Spences Bridge

15

Logged core at Hornex

all day

cloudy
showery

16

worked on IGC talk

showery

17 Visited Lornax + Bethlehem in
afternoon to be sure ~~to~~ everything
set up for tour.

Finished talk preparation in
A.M.

18 IGC tour - went OK - ended
at ~ 4 PM

Headed for Kamloops in evening

19 } on vacation - visiting brother

20 } in Kamloops
crew at Spences Bridge

Aug 21

Cool to warm
Cloudy, late
aft. showers

Logged JA core all day -
got thru holes 3 to 20 on
a quick-pass basis (17000' of core)

There is an odd quartz-
eye Sheena in the core rather
like that seen ~~at~~ on the
Sheba ground.

Crew at Spences Bridge

Aug 22

Showery, Cool

Logged \approx 2000' of core at
hornex - finished Hole 49,
did 8 and \approx 600' of 51.

Crew at Spences Bridge

Sunny

Aug 23

Logging core at hornex

Crew back in evening

(DB to Vancouver)

Aug 24

Sunny, Hot

Logging core at ^(Novely) ~~hornex~~

~~Copper~~

hornex

Norm + Bill cutting rocks -

Norm had the GMC lubed +

the oil changed.

Sunny, warm

Aug 25 Core logging at

hornex (arrived 8:10 AM, left

6:15 PM) - Bob Schmuck leaving

for Oregon next week

NJ + BI ^{working} Non rocks at camp

Aug 25 (cont'd)

phone # 573-3185

Jay Murphy of Cdn Superior visited in the evening - we talked of general explor ideas. Jay quitting CdnSup at month end. Alwin has taken an option on Transvaal?

Aug 26

Sunny,
warm

Going over roads with NJ + BI and planning traverses for next week.
DB back \approx midnight

Sunny

Aug 27 JA core

NJ, BI south of Gnawed Mtn
west of Roscoe Lk

DB working on rocks.

Sunny

28 JA core

Crew in Chataway / Roscoe Lk / Aberdeen
area

~~28 JA core sunny~~

29

Sunny →

Cloudy - poured
overnight

JA core

DB - 60 miles on bike - Sheba / Sando roads

NJ - Nic / C. CK "unconformity" - Barnes Lk

BI - pipeline for folk stns ~~49~~ - 60

30 Highmont visit - went to
cloudy
trenches

McPhar doing IP on
Mamit Lk ground (along shore
of lake - 6 line cutters)

BI near Gordon de

NJ Petite ct.

DB checking Tech Mamit Lake work
Sunny, cool

31 JA core - WJM - packed
breeze

office gear in ~~P.M.~~ evening

Crew packing up - end
of season

Sunny

SEPT 1 went to Highmont in
AM - looked briefly at core
from J1, J5, J6, J7, J8
& J9. Had lunch with
Al + invited him to
IGC dinner.

John Bellamy dropped by -
Bethlehem percussion drilling
at South Seas.

Crew packed and departed
As usual Bill Isherwood sucked the
hard tit (by over 2 hours) -
as expected Blanch flower first
out - by 1 hour.

Went to Cache Ck drive-in
for dinner.

Sunny
sept 2/72

Spent the day with Jim
Christie of Puntana going
over maps, sections & core
then visiting the Ksair
deposit. — oxide cap trends
easterly apparently. Faulting
appears to be very import-
ant — not as a control
but by moving ore. Guichon
— dyke contacts have most
intense actn & best mines-
alization.

— CREW NO LONGER EMPLOYED. —

Russians 7 Canada 3

Horrible

Sunday
Sunny, warm
Sept 3/72

Logging core from JA

deposit. Holes 70 → 72, 81 → 87

done.

SEPT. 4/1972: Monday

Sunny, warm

Logging core at Bethel (JA
deposit). Did 73 - 77 ; 88 - 92.

Canada 4 Russia 1

Excellent Hockey.

Sept. 5/72

Cloudy, Rain

Logging core from JA zone

- holes 94, 95, 96, 99, 100, 101, 102,

104. ~~also~~ also finished finding
for stations 1 → 2, 20 - 23

Sept 6

Cloudy, cool,
showers

Plotting JA data in
K

early A.M. - then went to Beth-

lehem and went over core

logs (holes 3-24) in Bethlehem

office.

Hockey game (4-4) and

IGC dinner & talk in evening.

Ken Daugherty

Went OK - invited Al Reed,
Webb Cumming, John Bellamy, Jim
Christie and Colin Herriot
to the talk also.

Sept 7

IGC tour - sunny, cool

gradually changed to cloudy, showery
and cold. Tour went okay.

Ken Daugherty left for Vernon
again after dinner

Worked on Bethlehem's J.A.
zone logs all evening

Sept. 8

Cold, Raining

Went over Bethlehem's JA core
logs in A.M. + core in P.M.

Hockey game was pathetic
5-3 for Russia

Sep 8

Rain (snow
on Forge Mt.)

Logging & sampling core at
JA + visited Krain to
look at percussion rig
& diamond drill rig.

Native Cu + colloidal
gel (?) at 950 in DDH.

Percussion rig on cat
continues to present
problems.

Packing & dropped
in at Puustana trailer
for a drink in the
evening.

Sept 10 Cloudy
Finished packing and
went to Kamloops -
stayed overnight - unable
to locate Jay Murphy (Cdn
Superior)

Sept 11 → 15 General sunny, warm

Sept 10 Went to Vernon -
ended up painting a
bedroom.

12

12 Worked on Promontory Hills

13 geology in Ken's office

15 Went to Merritt and

visited Jim Bristow (Craig-
mont) for a general discussion
in the evening.

16, 17 Cloudy →
sunny, showers

Sept 16 Travelled on to

Vancouver - spent the
16 + 17th visiting
Marion + Dick. I helped
Dick with his cabinet
building for their remodel-
ling job on the kitchen

Sept 18

Cloudy,
rain, cool

Left Vancouver + return-
ed to Victoria - spent the
afternoon trying to get
things organised.

Sept 19

Rain

Cool

Talked to D. Coombes, Roz
Moir, EV Jackson, etc

Moved rocks to basement &
started sorting gear in office

M125 went 100' + ran out of
Gas - dammed Carter?
Torgensen?! Used
mill to get enough gas to get to a station

Sept 20

Rain, Cool

Transferred rocks to basement,
sorted maps + continued un-
packing.

Contacted Fabco re trailer -
is still there!
talked to EV Jackson

K Crabtree

Started on correspondence
& reports + forms.

Sept 20

Cloudy →
sunny, showers
Rain

see last

page

Sept 21

sunny, showery,
blustery

Sorting gear & maps,
working in warehouse -

wrote to J Christie

PLD Thesis notes, etc.

taken home.

Sept 22

Rain

□

Stayed home to watch
Hockey game Russia won
5-4 (scored 4 times in 3rd period)
Hanscut

Sept 23

Showery

Weekend

Shopped Sat with Th -
got Recliner, ^{paint, etc} priced other
~~to~~ items

In-laws over in P.M.

Sept 24 Sunday

Sunny periods

Worked on picture frame
after hockey game (Canada
3 Russia 2 - chippy game)
Cleaned up chain saws

Sept 25

Cloudy, sunny

worked on truck cost records
in A.M. - Chatted with Jack
Garnett, Bob Thompson (Got to work
~ 9:30 AM - grossed truck up on the
way - very slow - would only take 1 or
2 cents worth then click off!)

Went to Eaton's, optical dispensing
place after lunch

Wrote to Blendflower
Cardanmier
Al. Reed

1
Sept 26 Took Day off

Cloudy

Canada & Russia 3

went downtown - got a particle board, staples, propane torch, paint, etc.

Worked on picture frame in evening

Sunny

Sept 27

Worked on accumulated reading matter - reports & journals to 11:00 A.M.

Cleaning up office & doing reports etc rest of day.

☐ Sept 28 Day off ^{cloudy}
Canada 6 Russia 5
Great

Went shopping for lumber,
etc in afternoon.

Cold developing all day

Sept 29 ^{cloudy → Sunny}

☐ Nose-running phase of
cold. In to work for 2 hours -
banked cheque, got glasses.

In aft. mounted house #1's
plaque, stained frame for cruel
work, pruned juniper and
evergreens along fence.

Planned bed frame +
wash room area in basement
in evening, then read.

Sept ~~27~~³⁰ (Saturday) Sunny
Canada 3 ~~by~~ ~~check~~ ~~over~~ ~~at~~ 3
Canada scored in last 4
seconds!

Scraped, sanded &
painted back steps.

Bob + Joan over for
Fondue in evening
~~Read~~

Oct 1
~~Sept 30~~ Sunday Sunny/cloudy
Put second coat of paint
on steps + did all underside.

Read an SF novel

Visited Theresa's parents
for a short time in the evening.
Varnished frame for Th's art
work.

Oct 2 Mon worked

□ 3 Tues Took Day off I think

4 Wed worked

□ 1/2 5 Thurs - worked 1/2 day

□ 6 Fri - worked around the
House

7 Sat - Shelagh + Robin's wedding
- took 40 pictures

8 Sunday - worked around
the House - went to lighthouse
park

9 Thanksgiving
To Cusings for dinner

10 At work

Truck repair forms,

- pollen sample locations

- ran $1\frac{1}{2}$ miles in 12 mins @ lunch

- finished pollen data & picked
mat'l out for x-raying in aft

|| Frank Vokes visit

wrote out forms for x-ray

samples

continued unpacking

Sullivan Trip 17 Oct 72

Hugh Morris

James West

Geologists

Paul Ransom

C - thin bedded
pyrite layers
3-4' thick

2' waste

B like C

1' waste

A like C
waste

Main Band - 10'

massive pyrite,
porphyroblastic
pyrite, Qtz

down through are (sw
fringe) then along 11 to
strike below are^{for ~ 2500'} - then
back up through

cgl area in foot wall
200' where we are

Tops from some X beds
& grading
some slump structures

cgl - large matrix/clast
ratio

Aldridge 15,000'

folds

squashed conc → Chevron
in a few feet
defmn + slump —

squashed pebbles in cgl
— soft sed defmn?

Then up to higher level
+ on to Tour - rock
F.W. (300' below main
ore band)

Got a sample in a
four-inched cgl zone.

then up a raise

pyrite + chl

pyrrhotite

Group toward pillar Sn

A9	Pb	Zn	Fe	
1.5	4.7	5.1	40.7	.01
	4.3			

In the pillar 4460 Elev.

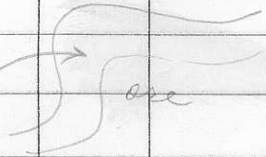
(Q91)

pyrite +
bxtal albite

ore

upper pyrite

carries Zn



E1 4450'

Fringe of Ore

NW part of mine

pyrite

red sphal

A, B, C & Main Band

all in one 10' band

Rel. massive

Kitchener

~~Creston-Kitchener~~

Aldridge

purcell sills
metagabbro
800 My

Hellmaning Ck stock 1.3 BY

Structures

Gentle N-plunging antiform

Faults

NE → N-S faults

ie Moyie fault

US Border



Model

Basin Infilling

Aldridge 12-16000' of Turbidites -

Aldridge

graded

args & sands interbedded

Scale marks

other zones ↑

sand ↑

lam. argillite

↑
quartz

Creston

greenish + pinkish siltites

& bedded sands

shallow water conds

Kitchener

Dolomites

stromatolites (?)

very shallow

Sullivan - between mid + lower

Aldredge?

Lower - w/ rust
- gtzites have much a.g. mat

Middle then bedded

Middle - up to 1 m thick massive
sets (white)

Lower Aldridge

8-10000' ?

Cominco - perhaps 3-4000'

Middle Aldridge \approx 5000'

have markers \approx 14

2-3000' above contact

to within 1000' of top

Interbedded arg + meta-
sst

Upper Aldridge

Thin bedded argillites

Conglomerate 200-300' max

laterally \rightarrow gut (100' thick)

a great sheet \approx 50 miles

long (vulcan prop) to

"chest", albite at \approx same
horizon away fm mine

Host at Mine has more
calcium

Estelle ?

Kootenay King - higher than
L - M aldrige contact

Morning Glory lower - mid
ald. contact

Sullivan, N Star, Stemwinder - "

St Eugene - vein - higher
in mid aldrige

Mine area

Cgl in channels

Xpt from the west
x beds west → east

pyrrhotite boulder w.

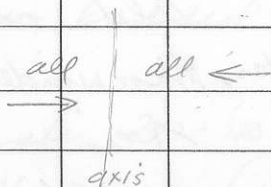
↑ weathered and
syngenetic?

Flax markings N-S

axial currents for the S

erosional base marks

aggradational ones (supples)



Rob Edmonds

Eric McDonald - Pine Pt

Doug Anderson - Valley Cr

Paul Ransom - Bluebell

Jerry Mason - Pinchi (was gone)

James West - Boss Mtn

Howard Holland - Bluebell

Fording

Alex Bournowski

W. Expln

18 Oct '72

stop 1 staurolite? micac.

qtzite

stop 2 gneisses + turbidites

2000' above h-m Aldridge

contact

some pale markings

" grading

source to south

Xbeds - transverse currents

stop 3 Beyond Mayne fault -

south side down

Creston / Kitchener

contact



Kitchener — molar tooth wtg

Photo 1 Creston

2. Creston (wt) / Kitchener
Contact

doi brn wtg
molar tooth

3. Pull-apart structures

4 Squashed " " " "

5 Hugh Gabriels shooting 4

Stop 6 a mile or so along

Creston — green + red beds
with desiccation (?) cracks

① photo

2 Ripples

3

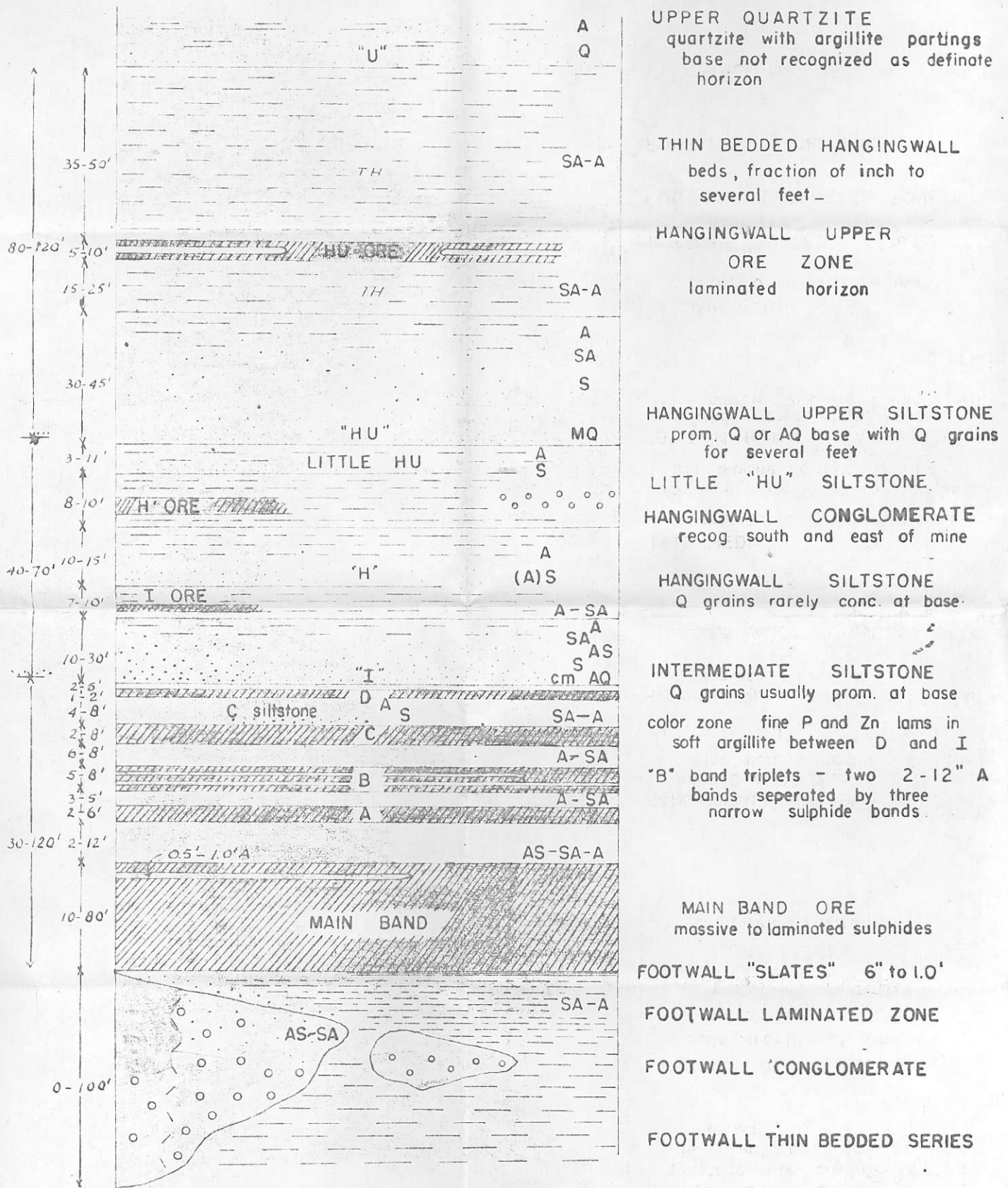
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5

} Load casts

COMINCO LTD.
SULLIVAN MINE, KIMBERLEY, B.C.

IDEAL GEOLOGY SECTION



Q - Quartzite S - Siltstone A - argillite AQ - argillaceous quartzite
 AS - argillaceous siltstone SA - silty argillite