

018573

STATION #		17153		NIS		105G	
N				E			
lithology				color			
foliated gtz mnz				tan			
unit		P1?		S 1?		strike 052	
						dip 28	
						direct. SE	
S 1		strike 070		dip 20		direct. SE	
				Ls 172		azimuth down plunge 172	
						plunge 20	

strongly foliated non porphyro
biotite > muscovite gartz mnz(?)
medium grained and lacking
in aegir, but looks related
to aegir gneiss to north

some ofc show 2 folia are
pervasive dipping shallowly SW
blue after a wide spaced
fracture (average ~20° steep to
SW - strong lineation down
dip in ofc looks like cren
but in flint like streaking

~ 1000' up L. 11

S₂ = 052/14 SE

S₁ 340/32 NE

L₂? 173/07

32
14
↓
7

STATION #		11154		NTS	
		N		E	
mineral		color			
augen gneiss		tan			
unit		S	strike	dip	direct.
			326	33	NE
S	strike	dip	direct.	L	azimuth down plunge
					plunge

orange tinged grey brown
 weathering ksp + minor blue
 + clear quartz augen gneiss to schist -
 very strongly foliated - augen vary
 from 10 to 30% of rock mostly cream ksp

110/10 N S, ? Fluxion foliation
 342/07 L? Striking lineation
 ~ 500' down hill

STATION #		11155		NTS	
		N		E	
lithology			color		
unit		S		strike	dip
		1?		240	12
				direct	
				N	
S	strike	dip	direct	azimuth down plunge	plunge
				347	12
			streaking		

greenish grey moderately foliated gtz feld chl
 gneiss parts of sp well layered with
 thin foliated gtz bands and thicker
~~massive~~ ^{crystalline} ~~massive~~ even textured homogeneous
 possible metagranitic rx or feldspathic
 gneiss. Difficult to be sure that
 this is an igneous rock originally

Further to S see local slab of
 calc silicate and silicified marble -
 this feldsp. gtz is very much
 like Horse Ranch Range -

several 100's of feet further S
 see good deformed granitic rx
 like at '54 but no blue gtz

STATION #		11156		NTS			
N				E			
lithology Feldsp. gtzite + mbl				color			
unit		S		strike		dip	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

biotite bearing feldspathic gtzite.
 fine to medium grained well
 layered esp on 1m scale
 from distance - clearly not
 meta granite - seems to be mtl
 here too - same as 55 except
 no meta granites.

Further down ridge is interlayered
 marble and calc silicate. - rx all
 disturbed but metam foln (probably
 a second but?) ~~appears to~~ and
 layering dips very shallowly to
 S or horiz from nearby cliffs.

minor biotite schist lenses in
 feldsp gtzites.

STATION #		11157		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

fine grained gray / blk speckled
 4664 gtz diorite - minor epidote
 (2ndy) - massive no foln or
 layering

STATION #		11158		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				1.?	105	32	N
S	strike	dip	direct.	L	azimuth down plunge		plunge

grey brown Feldspathic
 gneiss - thin, foliated
 - int with striped
 o/s

some thin grey, b. or white
 comp laminated varieties
 + much biotite in some,

STATION #		1159		NTS		
		N		E		
lithology			color			
unit			S	strike	dip	direct.
			F	075	14	N
S	strike	dip	direct.	L	azimuth down plunge	plunge
				striking	000	40

^{clear}
 white feld + blue grt + chl well
 foliated ^{sparsely} augen bearing gneiss -
 - meta granitoid rock.

2 fol's noticeable in o/c but
 only main one measured.
 earlier? or stretching?
 one dips steeper to N

wavy foln as opposed
 to thin parallel regular
 foln in last o/c - no
 appreciable comp variation.

STATION #		11160		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	calculated down plunge		plunge

irregularly foliated light
grey weathering feld gte musc
chl orthogneiss

foliation difficult to measure
due to wavy nature but
strikes 11 to WNW. up!

Steep -

probably related to 11159 and
quartzite rx to S, Not 2 mica
gneisses.

minor brn bio f pink
feld.

not the excellent It gives
a pink rx but possibly
part of the + pks

STATION #		11161		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

foliated gneiss chert matrix
 sparse argon schist to
 gneiss - good plunger
 foliation but part of same
 unit as 11160 and
 trends N to E -

could be either a meladite
 or subvolte sill? suspect
 its related to the rx
 just beneath "ophiolite" rx
 in west of dome.

STATION #		11142		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

H gray weathering feld gtz
 chl ^{mus} orthogneiss. with
 irregular wavy foln - closely
 related to 11160 -

Felds white - no pink feld
 or bio seen

irregular foln made more
 irregular by strong
 refolding of main foln
 about cpxite ax plan.
 trending 010 axis
 plunging slightly to
 N - approx shut
 dip of S, is towards
 N ~ 10°

STATION #		11164		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				1?	166	20	W
S	strike	dip	direct	L	azimuth down plunge	plunge	
				348	348	0	

lt brown - cream
thinly bedded gte fold
mass ± bio gneiss with
rare ^{white} foliated argon - rare
strike

clearly part of ACPC
cont. with Kgm

STATION #		11145		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				17	125	12	WE
S	strike	dip	direct.	L	azimuth down plunge	plunge	
27	335	17	SW	X	325	6	

coarse musc bio gtz fold
schist and interlayered
musc bio gnt gtz -
slightly rusty, weath. first
true pelites I've seen in
this pile. -
possible sillimanite

STATION #		11/64		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
		17		092	11	NW	
S	strike	dip	direct.	L	azimuth down plunge	plunge	
				17	062	5	

strongly foliated and laminated
chert schist $\rightarrow$ amphibolite
commonly with ^{small} dark lenses
(perthite $\rightarrow$ biotite) which may
be relict phenos -

locally rock was layered
with it too with CO₂
rich bands now heavily
transposed into S₁(or 2) leaving
a strong color banding or
lineation on the surface - possibly
suggesting tuffs involved.

no clear relict amygd
pillows or bra frags seen
but rx badly strained

same bluish green color as ^{reported} for
to N and K sch in general. - Potolith
for ferro eclogites is a 10% graph pyroxene

STATION #		11167		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	estimate down plunge	plunge	

walking along the ridge
I met a meta gneiss
body. It was a coarse grained
irregularly foliated gneiss
bearing body consisting of
(coarse cordoned twinned Ksp
(crine) clear ribbon interstitial
qtz and chl + musc. -
It is foliated but not foliariform
and lies in the same urban
rocks seen previously

STATION #		11168		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

green foliated meta-
volcs as seen previously
interlayered with coarse
lt grey marble passing
up street into gneiss
to rusty, weath. brownish
grey gte mica schist
possibly with ksp. Wye-
no time to examine
before wks ??? or just
gte mica schist.

STATION #		1169		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	azimuth down plunge		plunge

whit Ksp + (blue) gtz + msc + chl
 + bio? argon gneiss to
 schist - similar to that
 beneath oph. in mink ck
 above.

apparently interfoliated
 greenish gray bio fold amphi?
 rx possibly high grade equivs
 of chl schist unit??

some bio rich rx have
 white argon.

some varieties of argon
 gneiss with flesh ksp
 bio clots.

Field Equipment + Supplies

3401 - 12

3301 - 12

STATION #		1170		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

medium grained moderately
foliated gneiss
gneiss monzonite (?) biotite
and muscovite bearing
abundant to 2 mm
grains mass.

STATION #		11171		NTS			
		M				E	
lithology							
unit		S		strike		dip	
S		strike		dip		direct.	
				azimuth down		plunge	

medium bluish grey green massive
hard vfg basaltic gneiss -
fairly typical of ARG basalts
but not quite same olive green
and not so much epid. like
as at Rose Natn etc.

lots of slicks trending
248/30 assoc with moderate
fishscale fabric trending 065/85NW
(some oblique flow)

on S side of Gut is a
sedimentary assemblage
that weathers similar to
ARG bars but is more
foliated with foliation trending
060/80 SE to 90

the rx are gte gfts (including blue
gte) with a greenish grey matrix
that reminds me of ARG bas. may
be a bit from that unit. The
other major component is black non
calc non silic highly foliated (as in
slickensiding) argillaceous rocks
with frags of former rocks plus
lesser grey massive meta chert -
sizable size frags are mainly
gte rocks and grey cherts occur
to 3' x 1 1/2' however that size ARG
bas frags is rare. There is some
evidence that the first basalt
d/c may be a huge frag however.
Some gte gfts have a
black argillaceous matrix and
matrix supported clasts occur
widely in the fish scale foliated
argillaceous rx - seems to be
a slick like lineation on that
folia which mostly strikes ~ 30° N.

STATION #		11172		NTS			
						E	
lithology							
unit		S		strike		dip	
S		strike		dip		direct.	
		L		azimuth down		plunge	

165/80W foliation in another type of
gta bearing "ARG like" ~~matrix~~ sandstone

In this case the matrix has a good
metam foliation defined by chl
+ musc - looks like it would be at
home in khndlike schist. I have the
feeling I'm about to see an
eclogite ?

well foliated lt green ARG weathering
metabasites are present as well.
Frag 22 but they don't look
like ARG.

another major lithology
is finely laminated argill. chl
rock which on a good
split looks like a thin layered
mudstone (tuff bands) -
could it be a mudstone??

Several not very good samples
for thin section -

These are the chloritic
grits as seen below(?) the
Finlayson Lake massive
carbonates

STATION #		11173		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	col. with dark plugs		plugs

same rx as 11172 but no
mbl and with addition
of a strange coarse
metabasite pod or is it
a elastic rock p?? - weathers
like ARG

STATION #		11174		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	estimate down plunge		plunge

145/32 NE Fish scale like fabric
 ~ 1 to metam. Foliation in
 is like those at 11172

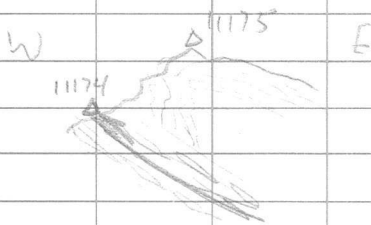
This str is the approximate
 contact with a pile of dark
 grey weathering rocks
 and greenish gray meta
 elastic^{etc} described previously
 The contact is 11's the
 Fishscale fabric and
 is may be a thrust
 fault??

Rx above contact are
 black phyllite, siliceous
 phyllite and black to

crème metabasalt -

Seems to be pods and
lenses 11 to 50m near
contact but up hill goes
into simply contact
ribbon chert which is
which is crème or lt
grey.

seems to be a large
inclined fold with geometry
something like:



and a horizontal axis but
not certain.

STATION #		11175		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

cream to lt grey clear
 ribbon metachert -
 looks like Franks place
 Pkg or Jackfish Pkg and
 metacherts rocks like the
 Finlayson Lk area gneiss.
 Clearly not mylonites or
 phyllonites but metacherts.
 Structure quite contorted
 and axpl foliation not
 easily defined but may
 be on crest of fold noted
 earlier.

STATION #		11176		NTS		105H	
				N		E	
lithology				color			
unit				S shearing	strike 187	dip 36	direct. E
S	strike	dip	direct.	L	estimate down plunge		plunge

dark grey to cream metab
chert and blk phyllite.
chr ribbon chert local.
object of str is small
gossan where there is
possible brittle chert but...

What Crap. but really
know what really is one but
this is the contact with
the obscure green siliceous
packing seen below the
carbonaceous^{chrt} unit - the
rx are quite extensively
affected by brittle shear.

in carbonaceous rx lowest
in that unit see shearing as

noted above for S surf - the
folia here is highly irregular and
as seen so often here.

more akin to sheensides
than a metabasite though
there was a metabasite
in the chert unit. -

seems this thrust(?) is
the same as the one
at 11174 - continuity
of carb. pkg. to NW
checked by chopper, it
stops here!

This is either part of
a great synclinally folded
thrust sheet or a
stepped stratigraphic
pkg.

STATION #		11177		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	eximuth down plunge		plunge

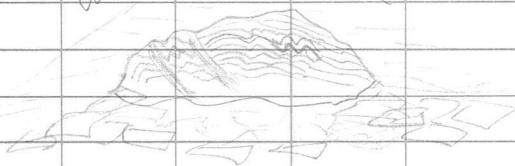
same rx as 11172 - they have
 are gtz bearing intermediate volc
 Flows $\rightarrow$ bxs with massive flow
 interiors and highly foliated
 margins which are the thinly
 laminated rx seen before (samples
 of each for petrography -)

structural picture for immediate
 vicinity is one of a shallowly
 E dipping to flat metam foln (S,?)
 cut by moderately E dipping
 late shears with Fishscale shearing
 perhaps related to upright open
 warps in metam foln - major
 units appear to 11 foln as
 shown by prominent lineation

seen on hill side which seems to
be the base of the more massive
flow unit (~50' thick)

Relations here suggest that
carbonaceous rx underlie the present
section - on hills to S the
carbonaceous rx appear to flat lying
and these rx appear to extend
above them - on hills to
E of rx may underlie ^{silic} quartz
but more work needed.

W ← 50' → E



sketch
showing
structural
relins

142/54NE - late shear
~ 1400 - metam folia = S,
072/11NW = S,
000/10 = stretching on S,

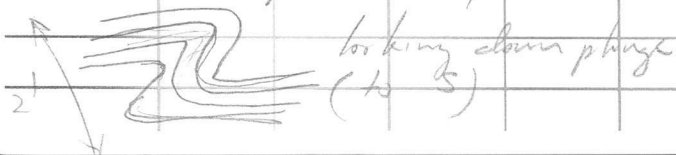
STATION #		11178		NTS	
N					
lithology			color		
unit			S	strike	dip
			1?	352	24 E
S	strike	dip	direct	L	azimuth down plunge

massive mod foliated gtz
bearing meta vokes, meta tuff box
or meta gneiss grit - can't
be sure Fresh surf looks
like meta voke - even the

surf looks sandy. -

is one basically a 1/4" to 1/2"
yellowish green mottled medium
to fine grained rock with
chert mass gtz and sparse
assemblage

015/215 stpl of tight fold
in S, 180/10 axis.



Streaking measured previously
and micro crins appear
to 11 xpl of 2nd ϕ fold.

① 12/27E 2nd S_1 ~ 500' to
N - again 2nd ϕ folds
came here made out through
lichen with difficulty -
same asymmetry

STATION #		11179		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down	plunge	plunge

thinly banded chlng
 gtz op. feld schist and
 off white - lt grey variably
 siliceous sub-calcite marble
 fine grained - concordant
 sample taken from pure
 layer - 8" thick.

thought to be banded variably
 calc felds & lts.

down hill is homogeneous
 slightly siliceous medium grained
 meta shales, strongly speckled
 with greenish grey relict feld
 & green relict mafics & chl.
 no gtz seen

STATION #		11180		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	003	09	E
S	strike	dip	direct	L	azimuth down plunge		plunge

measurement is of S, on limb
of asymmetric tight F_2 fold which
is essentially antithetical.
asymmetry is ~~SSS~~ looking
to south and no cpxl fabric
is developed - axis is ~ horizontal

Rx are redish br fngal
grey green weathering ^{green} gts wackes
with highly chloritic matrix -
may be meta tuffs - have
been in this stuff since last
str. - very similar to 11172 etc.
This pkg is certainly not
ARC but includes some rx
that may be similar -
To S are ^{moderately} ambiguous well foliated
quartzschists - probably meta
volcs.

This unit is not ARG but
is most similar to the chloritic
gits near Finkelson where
they seem to be structurally
beneath carbonates - these rx
are also the same as the
strange green metab. sil. pkg near
the ultramafic body to the North
which we have staked for ASB.

STATION #		11181		NTS	
N					
lithology			color		
unit			S	strike	dip
			S115 ₀	060	36
S	strike	dip	direct.	L	azimuth down plunge
					plunge

South slope of peak of ridge is
mainly underlain by speckled
metadiorite as seen before -
grains locally to $\frac{1}{2}$ cm.
also present minor amounts
of meta feld xtal tuff.

North S of peak underlain by
well foliated and kinked
ch. mass of calc epidote calcite
schist with irregular calcareous
lenses along S, - meta tuffs?

Peak of ridge is low to struct
underlain by foliated green metabasals
(greenschist or chlorite) - no relic
vol (struct) and thin wealth

crème well foliated mic
schists - with garnets??
false sole??

STATION #		11182		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
					000	10	W
S	strike	dip	direct.	Lact. min. along	estimate down plunge		plunge
					315		5

Feldspar schist
 chl musc ~~qtz~~ ^{feldspar} ~~so~~ ^{picrite} ~~schist~~
 schist - medium yellowish
 green - rare qtz eyes but
 otherwise can't tell protolith
 clearly part of green siliceous
 unit - may have been
 x fol folts or possibly
 meta chlorite and quite
 sheared.

Sta 11182 is at the top of
 a knob on the nose of a
 ridge - down the ridge to
 the N NE - W are grey meta
 cherts, dark grey phyllite with large
 lithic clasts ($\frac{1}{4}$ - 3" diam) and
 minor qtz sandstone apparently
 lying above a marble unit exposed
 near tree line to west.

the grey siliceous unit dips beneath
the green unit but dips in
the green unit zone towards
the contact perhaps implying
a thrust faulted contact



11
603



to north west is a 14 grey weather
massive to locally platy brecciated
(crinoid) limestone to marble - rock
is 14 grey to mid grey fresh and
slightly bedded - large chert nodules
in part of 6 ofc -

large concordant sample
taken

133/14 NE

STATION #		11183		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strikes	dip	direct.	L	azimuth down plunge		plunge

grey speckled gte + blk (minor
 green) chert + white pyrogranular
 gte. grit minor pebbles
 congl. of fine to medium grained
 sandstone - mostly massively
 bedded but in the core of
 available sec thin bedded
 parallel laminated fine ss.
 Not sure these are trilobites
 but suspect they are (little
 if any Abutil' inica.

The grey clastic sequence
 is underlain by lg grey to
 greenish grey meta chert with
 frag. dk grey phyllitic partings
 minor green gte feld gnt (or
 felsic to ss ??). Section overlies
 corundum 1st at 11182.

top of peak is ^{med} gray gtrite
(massive and ribbon metabasite)
and dk gray phyllite with
less grit ss as described
earlier

STATION #		11184		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth does plunge	
						plunge	

same crinoidal ls as 11182
 this may be a post metamorphic
 disrupted block in black
 phyllite matrix - photo here
 of possible "locally exotic block"
 to south

crinodont sample.

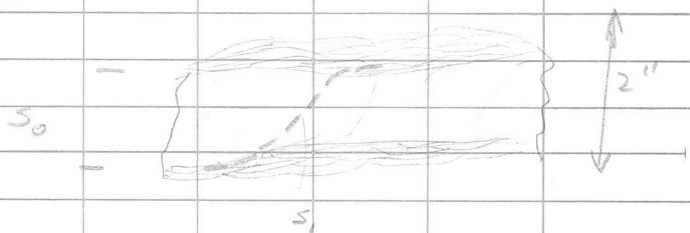
STATION #		11185-		NIS	
		N		E	
lithology		color			
unit		dip		direct.	
S		strike		plunge	

In an area of poor exposure and probably complex geology - from place to place I'm encountering small packages of different rock types which I'm not sure bear any relation to one another.

Here I'm in a mixture of lt to medium gray variably argillaceous very finely granular gneisses which look like they are meta argillaceous cherts - They do not show a 'good metam' folia but seems to have at least locally a fabric which is best described as an assemblage of overlapping elongate shingles which seem to be granular s.s. with micaceous folia separating them - the elongate

nature of the shingles reacts a striking but crude reaction to the surface of rubble - this may be due to late or post metam sheering - the ex remind me of the sheared cherts at the bottom of the Frank Place allochthon.

Those pieces with more granular interiors have a better metamorphic defined foliation that cuts across the probable S_0 at a strong $\angle$ intersecting S_0 such that $S_1 \times S_0$ is $\parallel$ to the lineation described earlier.



the overall impression is of the siliceous analog of a fishscale serp or basalt. I suspect sheering & metam foliation S_1 are related because of $\parallel$ lineation and that there is a gradation to foliated ribbon chert

STATION #		11185 (cont)		NTS			
				N		E	
lithology				color			
unit				S		strike dip	
S		strike		dip direct		L	
						dip down plunge	

light grey to slight greenish tinged grey meta cherts, are also present. ~~small~~ suggesting gradation to pkgs to east which is dominantly lt greenish meta chb.

second major lithology here is ^{massive} tan to orange weathered to finely xls dolomite with coarse ribby gts + clastic(?) veins, crosscutting through it.

no barite or int or chromite or don't think this is a SiO_2 Furthermore there are rare

silicified crinoids. - can locally see similar dol. veins invading meta cherts.

STATION #		11186		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				13	095	36	5
S	strike	dip	direct.	L	azimuth down plunge		plunge

Slaty chert + grt qtz
 to pebble congl with abundant
 chips of black phyllite
 in soil - same dk
 grey clastic pkgs as
 on top of hill.

STATION #		11187		NTS	1054		
N				E			
lithology				color			
unit				S	strike	dip	direct
				1?	107	30	N
S	strike	dip	direct	L	azimuth down plunge		plunge

light gray well foliated gneiss
and micaceous gneiss - may
be mylonitic metabasites -
much better metam foln than
11186

120/90 S, ? ~ 100' to
NE.

155/13 SW S; ax pl of
open weeps in S, ?

axis ~ horiz.

STATION #		11188		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	080	71	S
S	strike	dip	direct	L	azimuth down plunge		plunge
2	002	42	W				
CNV							

green siliceous package as seen
on ridge to S

114/64 S, ~100' to
NE.

rx here are mostly
soft chl/musc gtz (qtz?)
phyllites that might be
tuffaceous metavolcs - there
is lesser hard yellowish gn.
to med green gt, gold? chl
musc epi? rock with
rare gtz eyes (fluc??)
seems to be interfoliated
with black verily siliceous
phyllite and minor grey
metachert. Structurally
beneath is 11189

STATION #		11189		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
		12		100	45	5	
S	strike	dip	direct.	L	slight down plunge	plunge	

structurally below green silic.
unit beneath carbonate
phyllite is whitish weath.
to brownish to greenish
grey stony, but lenticular
banded. ~~By~~ finely granular
striae $\Rightarrow$ metabasalt?
similar to 11187 -
seems to be correct
underlain by rx that
are mixed 11189 and
some that would be carbonat-
able in green silic unit.

STATION #		11190		NTS			
N				E			
lithology				color			
unit				S FS	strike 160	dip 40	direct. W
S	strike	dip	direct.	L	azimuth down range		plunge

strongly fishscaled serpentinitized
ultramafic rock at least
locally a ^{coarse} hornblende (P) originally
may be much denser but not
really sure.

strike of fishscale foliation
directly towards fault zone
in next ridge to north.

STATION #		1119		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1.	092	54	S
S	strike	dip	direct.	L	azimuth down plunge		plunge

green silic. unit ??? mostly hard
 v. g. moderately foliated ⁸⁻¹² ch.
 m. s. interbedded? Feldsp becoming?

STATION #		11192		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	drop	L	down		plunge

lt grey weath o66 white to
 med grey finely xln calcite
 mbl appears interfoliated with
 possible green silic unit. -
 not like 11184 or 82 more
 like 11179

no crinoids seen

STATION #		11143		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				12	142	48	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

strongly planar foliated
 lt olive green fine grained
 gts (chrt?) chl msc "phyllite"
 probably a meta rock
 definitely part of same
 pkg as 11191 - not
 exactly like green silt
 unit but similar & weathers
 like it in part - much
 however has a greenish
 off white weathering.

just strat. below lt
 grey weath. massive (2)
 unit that 11192 was
 strat. top of. Fold
 nose $\frac{3}{4}$ - doesn't seem
 to extend to N

short underlain by more of
same with mld bands -
could be limb of above
noted possible old nose.

Thin brown short underlain
by possible old purple meta
andinite? - It olive green well
foliated rock with relief
ign text. mabk orange
tinged grey green.

STATION #		11194		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
				12		168	80
							E
S	strike	dip	direct.	L	azimuth	down	plunge

dk grey to black non calc
slightly siliceous phyllite
of the graphitic persuasion
Partly, with white siliceous
lenses to sheets along foliation.
grades into H to med grey
phyllitic gneiss

Assoc with light olive green
mottled med. calc - like 11193
may be meta andesite wt?

Also present are medium
greenish grey siliceous non
calc phyllite

STATION #		11195		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

just east of 11194 is a prominent
unit of light gray weather massive
to slightly foliated fine to
coarse grained qtz rich sandstone
no detrital mica or blue

qtz or chert seen

may have had a mylonitic
top or just a finer grained
grading upwards into the
vsz qtzose phyllites of 11194
no phyllitic partings -

a few piles of silica veined
tan weather dolomite (?) scattered
about seen only in this
unit but don't seem to
be beds - disrupted layers?

Remind me of the CO₃'s at 11185

To next we see rubble
of same stuff with
pieces of orange weather dol
gte ss and minor brick
red gte cracks → gte
eye grit

What is this gte ss unit?

STATION #		11196		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	azimuth down	plunge	
					plunge		

knob of V6g medium olive
green meta volcanic not
terribly unlike ARG bas-
has fine feldspar folios in
groundmass with some
larger phenocrysts also feld.
Andesite?

Structurally undisturbed by
well foliated highly weathered
ch. mass gtz oliv. green (?)
phyllite that appears to
have gtz eyes (gn silic unit?)

approx S, ? 140/30 NW
bit of chimped.

STATION #		11197		NTS		105G	
N				E			
lithology				color			
unit				S	strike	dip	direct.
				23	078	21	5
S	strike	dip	direct.	L	azimuth down plunge		plunge

coarse garnet gneiss bio
 gto solid poltite schist
 interfoliated on 10's of
 feet scale with calc
 schist.

STATION #		11198		NTS		1056	
N				E			
lithology				color			
unit				S	strike	dip	direct
				17	126	19	NE
S	strike	dip	direct	L	azimuth down plunge	plunge	

fine to med grained medium
 1/16 gray blocky + blocky
 weather moderately
 foliated but to gte
 folded ortho gneiss -
 not too hard to get
 100% gneiss from
 this. - no porphs.

Isoclinally folded gte
 veins along S(12) -
 rare comp banding
 on hand specimen size
 but large scale layering
 present as parts of
 of have no mafics

STATION #		1199		NTS			
lithology				color		N	
						E	
unit				S		strike dip direct.	
S		strike		dip		direct. L	
				azimuth down plunge		plunge	

massive mid-grained feldspar
 biotite > musc. granoblastic
 → gtz monzonite -

homogeneous and massive

musc (= bio) biotite larger
 than bio -

possible weak bio foln
 but can't see in o/c.

very sparse white feld
 porphs (comp?)

same comp as 1198 but no
 foln, coarser & no implied
 large scale 'banding'

W of Wolverine Lk.

June 15/81

STATION #		11321		NTS			
N				E			
lithology				color			
unit		ARG ?		S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- pale to med green, v fine grained
volcanic (intermediate to basaltic)
- aphyric.
- massive, shattered (highly
fractured.) - non-foliated
- sl. rusty weath.

11321

STATION #		11322		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
?	17B	28	NE				

- massive ~~stone~~ pole grey weath, cream to buff, fine to med grained marble underlain by highly sheared, variably calcareous (sl. to moderately) feldspathic gneiss w/ what appear to be dk. grey sheared shale fragments

STATION #		11323		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
?	109	17	N	?	353	11	

- thinly layered (2-10 mm) buff to brown to dk grey, rusty brown weath phyllitic gtzite.

- orientation of layering ^{"foliation"} as given.
- streaking ~~limbation~~ ^{foliation} appears on ~~foliation~~

Note may be a mylonite

STATION #		11324		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
flagon	030	16	SE	stealing	178	19	

~ 150 m NW of 11323 across a small SW
 trending ~~down~~
 - granitic mylonite - all 4 samples
 show grain size decrease
 & down to ultramylonite from
 sh. foliated granite w/in 1 m !

- intensely sheared zones are
 distributed randomly in the O/C

STATION #		11325		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
flux.		066		18		SE	
L		?		azimuth down plunge		plunge	
				176		16	

~200m W of 11324

- granitic campn mylonitic schist
- ~~flux~~
- fluxion surface as above
- well dev. streaking lineation (visible mainly as string out Qtz on fluxion surface) as above
- campn appears identical to Pz agn unit — Kfsn-plag-Qtz > mss > bt.

(campn also v. similar to K (?) 2-mica granite).

STATION #		11326		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- granitic gneiss - prob. mylonitic
gneiss - v. similar in
camp to 11324, 325
- v. strongly foliated
- all rubble, no measurement
- some parts appear to have small
($\approx < 3$ mm dia) mafic (hbl?)
clots.

STATION #		11327		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
?	122	32	NE				

- v. strongly foliated schists.
 Some looks like finer grained
 version of the catclastic
 granite but some has
 rounded blue glazeyes - deformed
 glaz eyes?

STATION #		11328		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	150	30	NE				

- strongly foliated gtz > Kypar > 7' micaceous phyllite w/ rounded gtz and euhedral Carlsbad twinned Kyanite eyes
- eyes look like phenocrysts.
- rock looks o. similar to sheared felsic metavolc seen elsewhere in the G.L.T.
- no obvious lineation

STATION #		11329		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
						direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	129	22	NE				

- carbonaceous phyllitic gtzite
 and siliceous carbonaceous
 phyllites. Sl. rusty weath.
 Overlain (and interlayered
 w/) felspar-gtz - musc phyllites
 that are cream to buff fresh,
 rusty weath

STATION #		11330		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	eximuth down plunge		plunge
	123	15	NE				

- foliated Kspar & Qtz porphyry.
Kspars are subhedral, range up to 2 cm in length. Qtz is clear to bluish, to 0.5 cm dia, and rounded.
- Groundmass is v. fine grained rock is pinkish white to grey fresh, weathers to rusty orange or orange grey.
- no mafics at all.
- looks like subvolcanic porphyry as in Pink Cr. Dome.
- no measurable lineation.

STATION #		11331		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	126	34	NE				

- foliated granitoid gneiss
exposed in ~ 50 m high bluff
along stream.
- rock is 795% granitoid gneiss
w/ relict K-feldspar (+ plagi?)
and sl. bluish grt? grains
- several (at least 3) foliaform
bands < 1.5 m. thick are
present - these seem more
felsic, although do have
some biotite flakes in the
foliation
- also have a lens (cut follow
it laterally more than 10 m
in either direction) that is
< 2m thick of bt >> fsp
> schist

STATION #		11332		NTS			
N				E			
lithology				color			
unit		S		strike		dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge

- rubble of extremely sheared out, greistail gneiss. Relatively felsic, but have minute mafic streaks present // lineation
- no o/c, all rubble

- merges to n along ridge (over ~ 400 m) w/ f. grained micaceous gneiss & pale green to gray banded calc. silicate w/ w. narrow marble bands.
- contact is difficult to pin down but the gneiss/calc sil sequence is rusty weath. greistail gneiss is not so much

STATION #		11333		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	160	06	W	33	350	05	

- thinly interlayered gtz - mica schist, calc-silicates, and bt >> gtz + fsp schists.
- planar lamination v. strongly dev // layering
- well dev. mineral streaking
preservation as given
- banded calc-silicates locally have rounded plagioclase blasts (?) or schist chlorite grain (prob. not) to 3 mm dia

STATION #		11334		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	strike down		plunge
	010	12	W				

- granitic augen gneiss
 Kyan augen to 2 cm dia
 in sl. Fine-grained plagioclase-
 ribbon Qtz groundmass

* augen gneiss is cut by a fine-
 grained, equigranular dike
 ~ 25-30 cm wide. Dike
 cuts foliation in ~~the~~ gneiss @
 ~ 60° but appears to be foliated
 itself || the foliation in the gneiss

ZIR CON

(no thin section) LOCALITY
 both gneiss & dike

STATION #		11335		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- rubble

- thinly banded cream to pale
green to grey micaceous
qtzites ± siliceous calc-silicates

STATION #		11336		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	095	27	NW				

Thinly layered white to pale
gray to pale greenish gray
pale to med gray weath. sl.
massive of tiles (may be a siliceous
mylonite)

- overlain by highly sheared
rusty weath serpentine and
serpentinized UMF
- contact not exposed
- UMF blocks are sl. slumped
so no tectonic fabric

mease.

- much red chert coming down
from top of knob.

STATION #		11337		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	
	146	15	SW		162	DD	

- Thinly interlayered sl to mod. rusty weath. pale to med grey, f.g.r. gtzites, micaceous gtzites, and pale green calc-silicates
- foliation || layering, one rootless fold hinge (d ~ 2m, amp. > 5m) visible on an adjacent inaccessible cliff w/ ax. R || layering
- mineral streaking / lineation locally well dev. on micaceous partings @ 162/00
- farther up the ridge (~ 100 m up section) have pale grey-green gtzite w/ plag' blasts (corrosion grains?) rounded, elongate || foliation, 63mm cont. over

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

- approx 2/3 of way from drop off
to UMF contact layering has
gone over to 010/40 NW

11338		NTS	
N		E	
lit	color		
unit	S	strike	dip
S	L	azimuth down plunge	
		plunge	

- thinly layered black, weath
gtzites, and banded gtzite
and red to dk green calc silicates
- a v. large (> 5 m dia) block
of non. foliated quartz as well
as smaller blocks of well. foliated
avg. gneiss

STATION #		11339		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- banded biotite and qtz-biotite schist and gneiss, and feldspathic gneiss.
- Intruded by a dike of co. grained bt. granite ~ 3m wide, steeply dipping - similar to an isolated block @ last station.

STATION #		11340		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- well foliated sl. shumped blocks of granitic gneiss. Relatively musc. rich compared to the other gneisses seen today.

W of Whitefish Lk.
f. along Moray Cr

June 16/81

STATION #		11341		NTS			
N				E			
lithology				color			
marble							
unit		S		strike		dip	
S		strike		dip		direct	
				azimuth down		plunge	
				plunge			

- massive pale grey weath., buff to pale grey f. granied marble
- all rubble, but no visible foliation anyway

STATION #		11342		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	134	75	NE	?	132	02	

- grey f-gr marble as above
- R fabric given is defined by a v. weak foliation, also by weak color banding (cream to pale grey)
- have a weakly dev "streaking" lineation on the foliation surface.

STATION #		11343		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	002	27	E		100		26

dk gray, sl. carbonaceous f. granitic
 gtz rls, gtz fsp. gnt and
 gtz fsp. pebble cglm.

- layering || foliation as given

- lineation defined by ~~the~~ elongation
 of fsp. granules.

STATION #		11344		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	175	25	E				

- foliated at least partly re-foliated
serpentine overlain by
rusty weath silica-carbonate
altered UMF w/ abundant
fuchsite.

STATION #				11345		NTS			
				N		E			
lithology				color					
unit				S		strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge		
	169	14	E		016		08		

- interlayered sl. rusty weath biotitic and muscovitic gztites (v. fine grained) or feldspathic gztites
- range from dk grey sl. carbonaceous to cream or white.
- rocks appear to be strongly sheared
- foliation as given - v. well dev
- "streaking" lineation as given
- v poorly dev. cren^d @ 347/00

STATION #		11346		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	014	25	E		010	00	

- intensely lineated, thinly banded quartz & feldspathic quartzite. Banding is on a scale of 1-2 mm, Beds are discontinuous
- varies from buff weath to rusty orange weath, but compn remains ~ the same
- in the specimen collected, the lineation is seen to be || the intersect of the main linear foliation and another less well dev. fol. Can't find the other one to measure in the O/C tho.

STATION #		11347		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	
	040	08	SE		188	02	

- cl - musc - ls - glz - fsp
schist. Rock is ~

15% rounded pinkish to
rusty weath fsp eyes to
3 mm dia.

- v. well foliated

- mineral shearing lineation
v. well dev

STATION #		11348		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge		plunge
	075	60	SE				

- white weath, cream to buff
fresh; v. fine grained sl.
muscovitic qtz and feldsparine
qtzite
- massive to poorly foliated
- abundant bull qtz (white)

STATION #		11349		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
						azimuth down plunge	
						plunge	

- fine to med grained gtz, micaceous gtzite (clear gtz) and arkose, w/ minor ss. grained arkose.
- can't find grain size variation in a single O/C so can't measure S_0
- v. poorly dev. foliation @ 070/72 NW - may just be jointing, tho'
- in uncertain contact w/ massive non foliated hbl - Kfsar - plagiophyry

STATION #		11350		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	azimuth down plunge	plunge	
	089	59	N		082	03	

- f. gr. sl. rusty weath, cream to buff gtzite
- strong jointing as above
- streaking lineation as given
- u. similar to Δ 11348

STATION #				11351		NTS				
N						E				
lithology					color					
unit					S		strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge				plunge	

- massive sl. rusty weath
ht. hbl. gtz variscite/variscite

- med grained, equigranular,
nm. foliated.

June 17/81

STATION #		11352		NTS		105 G	
N				E			
lithology granite				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- massive, non foliated
cs. gr. granite
- Kfs is pink (hornblitic),
plag is green, qtz is clear
- Hbl & biotite make up $< 10\%$
of rock, both are somewhat
chloritized
- This rock looks u similar to
the "qtz martz" phase of the
Simpson's Mochter.

STATION #		11354		NTS		105 G	
N				E			
lithology				color			
unit		S		strike		dip direct.	
S		strike		dip		direct. L	
098		33		N		azimuth down plunge	
						plunge	

- v. f. grain of rusty weath
poorly photed to massive
qtzite. v. pure qtzite looks
almost like bull qtz in
places.

- Foliation is exposed as a
jointing only

- same stuff as 11348, 350

STATION #		11335		NTS		105 G	
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		strike down plunge	
						plunge	

- mainly rusty weath ferrous
 but has some v. large
 (> 3m dia) blocks of altered
 & sheared pyritic gabbro(??)

STATION #		11356		NTS		105 G	
N				E			
lithology				color			
unit				S		strike dip direct.	
						025 18 W	
S		strike		dip		direct.	
bandy		020		25		W	
				L		strike down plunge	
						213	
						plunge	
						02	

- thinly banded, v. fine grained, locally d. carbonaceous buff to dk grey g. slate.
- sl. rusty with
- strongly foliated // bedding w/ a strong lineation as dev. on the foliation surfaces as intersect of the two foliations
- locally have d. phyllitic partings
- as go struct. up section go through more massive stuff then into rusty thinly banded g. slate as above

STATION #		11357		NTS		105G	
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
	052	07	NW		016		02

- at westgate, thinly layered buff to dk gray, fine gr. gt mts, locally w/ phyllitic partings.
- well foliated // bedding
- lineation given is the intersection of the main foliation and a more weakly dev sub parallel ~~line~~ foliation
- as go struct. up section get S/C of siliceous rusty weath musc phyllite.

STATION #		11358		NTS		105 G	
lithology				color			
unit				S			
S		strike		dip		direct.	
		dip		direct.		azimuth down plunge	
						plunge	

- impure gtz $\rightarrow$ fsp + gtz
- clasts to 0.7 cm dia
- micaceous & chloritic matrix
- gtz is clear (no blue gtz seen)

- all rotated blocks

- Some of this could be a meta plutonic rock but unlikely

STATION #		11353		NTS		105G	
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	102	16	N				

- sl. carbonaceous sl rusty weath, thin-banded tan to dk grey phyllitic g + ate
- v. fine grained
- locally narrow bands of siliceous carbonaceous musc. phyllite.
- all rotated blocks @ dip-46
- nearby o/c has good foliation as given

XXXXXXXXXX
FUEL - UP

STATION #		11360		NTS		1056	
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	strike		dip	direct.
	064	26	NW	068			00

- inter-layered rusty brown weath
 f. gr. gneiss, CL = MS schist,
 and yellow-orange weath
 pyritic gneiss or felsic metagneiss

STATION#		11361		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	slowness down stage		plunge
	120	27	NE				

- Kspar augen gneiss
- granitic campt, Kspar augen to 3cm dia separated by ribbon gtz and strongly crystallized plagioclase and/or mafic

— also have a med-grained, equigranular, foliated foliaform, alaskite lens ~ 0.8m thick

(*) collect for ZWCS from alaskite

STATION #		11362		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
		030		22		NW	
				L		azimuth down plunge	
						plunge	

- epidatized moderately to strongly
 foliated porphyritic granitoid
 gneiss. Kfs megacrysts
 to 4 cm length

- mineral streaking hereafter
 poorly dev

~~can~~

STATION #		11363		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
018		22		W	
azimuth down		plunge		plunge	

- large rusty zone in granitoid gneiss
- rusty weath $\circ\circ$ rock is intensely pyritized — to 30% as disseminations
- No other sulfides seen
- Trace of hematite

STATION#		11364		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
						azimuth & dip plunge	
						plunge	

- v. rusty weath. granitic gneiss as above.
- ~ 2% dissemin. py.

STATION #		11365		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
	118	28	N				

- interlayered chlorite > muscovite schist, micaceous to phyllitic f.g.r. clean quartz, and K-feldspar augen granitic gneiss.
- all units are sl. pyritic & the augen gneiss is w. rusty weath.
- the " " seems to be a foliation layer ~ 4-5 m thick w/in the layered sequence

STATION #

11366

NTS

N

E

lithology

color

unit

S

strike

dip

direct.

S

strike

dip

direct.

L

azimuth down
plunge

plunge

- rubble of highly sheared
granitic gneiss
- no megacrysts present

STATION #		11367		NTS	
		N		E	
lithology			color		
unit			S	strike	dip direct.
S	strike	dip	direct	azimuth down plunge	plunge
	050	28	NW		

- massive to moderately foliated blocky weath. med grey weath (w) abundant black (lichen) granitic gneiss (gneissic altered gtz monzonite)
- Kspars are pink, gtz is clear to v. sl. bluish, plagioclase is saussurite mafics (<20%) are chloritized
- looks a lot like Δ 11352 but is quite different from Δ 11366 also a strong fainting @ 080/62 N

STATION #		11368		NTS		1056	
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth		dip angle	
	045	25	NW				

- pale green, sl rusty weath
 chloritic gtz - musc schist
 rd muscovitic gtzite.

XXXXXXX

Fuel - up.

STATION #		11369		NTS		105 G	
		N				E	
lithology				color			
unit		ARG		S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

- massive red and grey green
chert

- also a red granular pink
weather. Kspn - hbl porphyry

STATION #		11370		NTS		1056	
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct	
				azimuth down plunge		plunge	

- carb gtzite - massive, white to
 dk grey
 also a v. small o/c nearby
 of v. well foliated & altered
 gtz - eye meta volcanic
 gtz - fspr - musc phyllite

STATION #		11372		NTS		105G	
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
		145 ±		18		NE	
				azimuth down plunge		plunge	
				356		02	

felsic

- well foliated Kspar - qtz
porphyry

- Kspar phenos to 1.5 cm,
greyish to sl. bluish qtz
eyes to 0.3 cm.

- Locally have as much as
5% bt as well.

STATION #		11373		NTS		105 G	
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	east-west down		plunge	
	120	47	NE				

- med grained, thinly layered gray to rusty brn gt zite.
- layering (bedding?) given
- pyrite content to 10% cubes to 1 cm wide

STATION #		11374		NTS		105 G	
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	strike	dip	direct
	138	44	NE				

- strongly foliated f.g.r. cl-MS-BT-EP schist
- pale to med green weath, pale to med green fresh.
- locally see little dk green spots - prob! relict mafic phenos.

STATION #		11375		NTS		1059	
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	
	50	62	NE				

- thinly layered (color banded, also amt of mica present)
carbonaceous, phyllitic gts
and v. siliceous, phyllite
- weathers dk grey, locally w/ rusty spots (chromite after pyrite cubes)

STATION #		11376		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge
	165	36	NE		165		00

- Qtz - fsp - bt - chl schist
- looks like it may be a metagranite

STATION #		11377		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive sl rusty weath.
sl foliated muscovite
granite

good for Zircon!!

X X X X X X X

Fuel - up.

STATION#		11378		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
						azimuth down plunge	
						plunge	

- blocky weath non foliated to well - foliated med granite
 - 2-mica granite
 - locally garnetiferous
 - locally w/ K-feldspar phenos to 2 cm
 - same
- Note - have abundant bt
Schist float - inclusions?
(xenoliths?)

* Zircon

STATION #		11375		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	

- non-foliated ~~3~~ med grained
2 mica granite.

- sub-horizontal jointing

STATION #		11300		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
						direct.	
S	strike	dip	direct.	azimuth down		plunge	
	070	11	NW				

2 (poor - blocks may be sl. rotated)

- v. poorly foliated 2 mica
granite asd last station
med. grained, no megacrysts

- abundant angular float
of bt schist that must
be fairly local, but can't
find in place.

STATION #		11301		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	040	14	NW		012		08

↖ ax. p. to minor folds ↗ fold axis

- highly deformed med grained
bt. fspn-quartz gneiss,
locally w/ minor muscovite
- strongly layered, (mineral
abundant layering)
- rusty brown weath (from
biotite)

STATION #		11382		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge
	102	22	N		352		12

- v. well foliated biotitic
granitoid gneiss
- abundant foliation hull
qtz lenses to 20 cm wide

STATION #		11383		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
						direct	
S		strike	dip	direct	azimuth down plunge		plunge
		084	19	N	338		17

- layered fspn of 2-amphibole
gneiss w/ biotite partings
- pronounced compn layering
on scale of 1 → 10 cm

lineation defined by mineral
streaking and amphibole
alignment.

STATION #		11384		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

- v well foliated granitic gneiss
- ~ 5-10% biotite^{hbl} plus relict
Kspn grains to 3 mm
- overall compn prob. a bt-hbl
monzonite.

W of white fish LK

June 18/81

STATION #		11385		NTS		105 G	
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	029	20	NW				

Thin to med layered, phyllitic
qtzite, and feldspathic
qtzite.

- well foliated

STATION #		11386		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	042	19	NE				

- most of Qc could be a sheared
 f.g. impure feldspathic
 gneiss, but can follow
 along ridge into rock w/ good
 relic igneous texture (Kspn
 and stubby hbl (or gpx?)
 grains to 1 cm dia

* Return later. - I was just inside
 contact of plutonic rock. The
 country rock is mostly with
 thinly layered gneiss & the
 intergneiss is somewhat finer
 grained, and pyritized near the
 contact (w/in 20 m)

STATION #		11387		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct
S	strike	dip	direct	L	azimuth plunge	down plunge	plunge

- well foliated granite - fairly altered, but still have good relict Qtz & Kspen eyes
- was originally medium grained, equigranular

STATION #		11389		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	045	24	NW				

- well foliated sl. rusty weath
sl. phyllitic white to cream
to pale grey f.g.v. quartz.

STATION #		11389		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	sl. down plunge		plunge

- as walk SW along ridge -
- dip off in fgr. phyllitic gneiss as above, then go into a zone ~ 30 m' wide that looks like a sl. sheared med grained alkali. Then (at pick-up pt.) back back into thinly layered gneiss again
- alt alkali body maybe ~~are~~ ~~exactly~~ a dyke or some such?

STATION #		11390		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- foliated blocky weath hbl
 ± bt gtz granodiorite - mafic
 largely chloritized, rock is
 locally sheared

STATION #		11391		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- rusty weath massive to
sl. foliated badly altered
pyritic metaigneous (meta plutonic)
- prob ~ the same sample as
11390

STATION #		11392		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
						horizontal	
S		strike		dip		direct.	
		025		30		NW	
				L		azimuth down plunge	
						plunge	

- doubly foliated siliceous musc. phyllites and chlorite-musc. phyllites -
- rusty brown weath., buff to med green to med gray
- horizontal foliation is dominant, NW dipping one looks like a jointing

STATION #		11393		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	105	13	N				

- slightly rusty brown to bright orange. red weather cream to pale grey & pyritic fine-grained gtzite and feldspathic gtzite.

- v. well foliated - foliations are "wrinkled" on a scale of 5 → 20 cm

XXXXXXXXXXXX

Fuel - up

Northern Simpson Rg.

STATION #		1394		NTS	
N				E	
lithology			color		
unit			S	strike	dip direct.
S	strike	dip	direct	azimuth down plunge	plunge

- thinly layered well foliated
buff to pale gray sl. purty
weath. phyllitic gtzite
w/ minor biotite & schist.

STATION #		11395		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	050	23	SE		196		10

- strongly foliated granitic gneiss
- mineralogy is quite variable - parts look granitic, other parts are ^{more} chloritic - still have relict Qtz & feldspar eyes locally visible

STATION #		11396		NTS			
		N					
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	160	18	W		195	10	

- v strongly foliated granitic gneiss
- good mineral streaking
- mafics make up ~ 5% of rock, remainder is pink K-feld rich
- as go down the slope, get into a rock that looks more like a feldspathic gtzite
- can't tell ~~what~~ whether this is granitic gneiss or not.

STATION #		11397		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct.
S	strike	dip	direct.	L	estimate down plunge	plunge	

- feldspathic gneiss or granite gneiss all above
- go down ridge into more striped rock - go to feldspathic & chlorite-amphibole-bt bands
- think this is the "striped unit"
- all rubble no structure

STATION #		11398		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- gneiss of granitic compn
could be either meta granitic
or meta-arkose ??

- no time for structure

STATION #		11399		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- rocky to ~~use~~ moderately foliated 2-mica granite

- S/C only

- don't see any of the biotite schist here that was present @ the other foliated 2-mica granite stops last day

11400

				S			
						E	
unit				S		strike dip direct.	
S				strike dip direct. L		azimuth down plunge	
						plunge	

- non-foliated to poorly foliated
2-mica granule as above.

- foliation is v. hard to see
in the in-place blocks but
appears to be sub-horizontal

STATION #		1/401		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

- med grained granitoid gneiss
- rusty weath
- Kspar megacrysts (or
porph. blasts or relict
detrital grains ??) to
1 cm dia

STATION #		11402		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	178	36	E		012	00	

- thinly layered red brn to
pale gray weath phylitic
qtzites

STATION #		11403		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- foliated 2-mica granite

STATION #		11404		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct.	L	
	120	38 NE		estimate down plunge	plunge

- non calcareous chlorite-
feldspar schist. Dk green
weath and fresh.

- nearby o/c is CL. schist
w/ abundant v. strong and
plogs.

STATION #		11405		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth	down plunge	plunge
	120	15	<u>sw</u>		152		05

- dk gray to rusty brown weath.
thinly layered carbonaceous
f. grained gtzite & musc.
phyllite.

X X X X X

fuel - up

STATION #		11406		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
	156	78	E				

- fine - grained sl. phyllite
 glt etc - no fsp
 pherars

STATION #		11407		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
132		28		NE			
		L		azimuth down		plunge	
				018		25	

well foliated, granitic gneiss
Kyan & blue qtz eyes to
1 cm dia.

STATION #		11708		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
		132		15		NE	
				azimuth down plunge		plunge	

- U. strongly gneissic granitoid
w/ local felsic gneiss
fspn-grt gneiss bands

STATION #		11409		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	150	18	SW				

- carbonaceous phyllitic gtzite
and siliceous phyllite

STATION #		11410		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	010	11	W				

- bt. qtz - feldspar banded
gneiss

- v. strong compin layering -
(qtz + fsp) / bt ratios - on
a scale of 1 → 5 cm

STATION #		11411		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	025	024	W				

- massive to poorly foliated
chloritized and epidotized
metabasalt and well foliated
chlorite muscov schist overlying
carbonaceous phyllites
gltate -

STATION #		114/12		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	estimate down plunge		plunge
	106	21	N				

- massive to weakly foliated
 & rusty weath. white to
 buff & gr. gtzite w/
 muscovite partings -

- a barrendars amt of vein
 gtz in marble around the
 o/c

STATION #		11414		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	073	48	N				

- sl. rusty weath. carbonaceous
siliceous phyllite & phyllitic
qtzite

STATION #		11415		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	100	18	N				

- cl-musc - qtz fagorphyllite
w/ abundant small
chalcedony qtz lenses
- sl. calcareous
- pale green & gray-green
fresh, weathers pale
gray

STATION #		11416		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	strike	dip	direct.
	110	47	N		350	25	

- v. well foliated bt - gtz. fsp
- Schist
- sl rusty weath.

STATION #		11417		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- v. well foliated sl. chartr.
- pale green auger gneiss
- subhedral Kspn auger
- to 1.5 cm dia
- no qtz auger - all qtz
- is as ribbons.

- overall compn - granite
- no fine for meas.

STATION #				114/8		NTS					
				N							
lithology				color							
unif				S		strike		dip		direct.	
S		strike		dip		direct.		L		essentially down plunge	

- m. foliated blacky weath
pinkish weath hbl > bt
granite

- Kspars are pink, plagi
green, qtz is clear.

hbl somewhat chloritized

STATION #		11419		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
	155	16	SW				

- v. fine grained thinly
 color banded ~~to~~ green
 cream to pale grey weath
 sl. phylitic g.t. etc

STATION #		11420		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- hbl - bt - clau - gtz - fsp
gneiss - meta sed or
metagneiss ?? (AC-DC!)

- Kzans are v. pinkish

STATION #		11421		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- well foliated rusty weath
sl. pyritic felsic meta rock.

- Qtz & feldspar eyes,
subhedral to
rounded

~~The chert layers
are ready.~~

That was

$\Delta 11326$

granitic gneiss

STATION #		11422		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge
	038	09	SE		014
					plunge
					02

"AC-DC" schist *

↑ mineral streak location

- bt - chl - gt ± feldspar schist grains

- v. well foliated, canyon layering moderately to well dev. 11 fol.

- could be metagranites - has bt ± hbl clots (relict mag.?) and some layers have fspgr eyes. However, the rock is v. well layered & has abundant gt ± lenses (foliaform)

* high up in section get. f. grained, rusty weath. phyll. of tile layers - make sed at least in part.

STATION #

11423

NTS

N

E

lithology

color

unit

S

strike

dip

direct.

S

strike

dip

direct

L

azimuth down
plunge

plunge

198

14

S

- layer of silica - carbonate
rock (v. rusty weath, w/ abundant
fuchsite) sheet overlying
thinly layered siliceous rusty
weath mass phyllite &
phyllite & gr grtite.

- looks like just a very
thin skin of s-x rock
overlying the phyllite.

STATION #		11424		MTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct	
S	strike	dip	direct	L	estimate down plunge		plunge

- massive to v. poorly foliated
 cream to rusty red weath.
 cream to buff f. gr. gtzite

STATION #		11425		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down plunge		plunge	
	034	20	NW	228		02	

- thin streaking
 - think layered (color banded)
 poorly to well foliated, phyllitic
 E.g. rusty weak g etc

STATION #		11426		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down		plunge	
	135	30	NE	plunge		plunge	

- med grained, med greenish
grey, moderately sorted
gtz ssn

- crude foliation || a vague
bedding (grain size
variation) as given

STATION #		11427		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip direct		azimuth down plunge	

- massive non-foliated
Hbl-rich monzonite w/ large
(to 3 cm dia) K-feld megacrysts

- looks like "Diablo Mtn
Pluton" South of Mink Cr.
Same.

- may be related to RCA Pluton

2 stations SE of North Lake, then
up to area between Grass Lake & Riverwalk

June 19/81

STATION #		11428		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
							direct.
S		strike	dip	direct.	L	slough down plunge	plunge

- blocky with bt gtz. feldspar
gneiss
- AC-DC gneiss unit
- all slump blocks

STATION #		11429		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	022	14	Nw				

- white to dk grey, locally sl. carbonaceous, rusty weath., poorly foliated to massive, f. gr. quartzite

- abundant & rusty weath. pyritic (dissem., PY) f. gr. cream to pale grey spotted feldspathic quartzite or felsic metagabbro

The "spots" are fine grained blackish material - may be sulfides (??)

STATION #

11430

NTS

N

E

lithology

unit

S

strike

dip

direct.

S

strike

dip

direct.

L

azimuth down
plunge

plunge

- non foliated, massive garnetiferous
alaskitic phase of the
Z-mica granite in uncertain
* relationship w/ moderately
foliated, relatively bt-rich
version of Z-mica granite

* note elsewhere in the O/C
can see the alaskite cross-
cutting (intrusive into) the
massive granite — the
"Z-mica granite" may be

** after seeing A 11431, this
is definitely alaskite into
AC-DC gneiss

STATION #		11431		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
		085		13		N	
				azimuth down plunge		plunge	

- Thinly layered (compn layers)
bt-lgtz. fspn schist / grains

AC-DC Greiss unit I think
same as greiss @ last
stop.

STATION #		11432		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge	plunge	
	112	17	S		100	10	✓

- S/c of v. calcareous
dk green metabasite ass.
w/ carbonaceous siliceous
phyllites.

- metabasites are actinolite +
chlorite + fsp + calcite
± Qtz.

- measurements are from
metabasite unit ~ 150 m
NE along the ridge

- mineral & texturing consistent

STATION #		11433		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
		065		20		SE	
				L		azimuth down plunge	
						plunge	

thinly interlayered pale to
 med green sl. chert
 subcous phyllite phyllite
 gneiss and chert - musc
 phyllite

STATION #		11434		NTS			
				N		E	
lithology				color			
unit				S		strike	dip direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
	155	20	NE				

- thinly layered, med. grained cream to pale gray bedded marble.
- locally w/ sl. chlorite partings
- bedding || foliation

STATION #		11435		NTS			
				N		E	
lithology				color			
unit				S		dip	
S	strike	dip	direct.	L	azimuth down		plunge
	064	46	SE				

- med grained ~~color~~ white
to med gray banded, foliated
marble as in Δ 11434

STATION #		11Y36		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
							direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	095	16	N				

- v. short (200 m) traverse
down ridge to SW on dead
run!
- start in biotite AC-DC
gneiss - biotite Qz-Fsp
- then down into garnetiferous
qtzite (thin layer < 15 m)
then down into highly
garnetiferous musc $> 90\%$
Fsp schist. Garnets get
bigger as go down hill
- as large as 1.5 cm dia.

STATION #		11437		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		strike down plunge	

- all dump blocks of altered
gneiss or cs. grained granite

- clear to bluish gtz,
pinkish Kfs, white
plag. — mafics are ≤ 1
→ 3% by ~~vol~~ volume
all completely chloritized

- varies from slightly to
well foliated

- not an augen gneiss — no
augen — just cs. grained
granitic gneiss

STATION #		11438		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- same as 11437
- more developed gneissic
text tho'
- all slump blocks
- some bt schist "bodies"
(whatever they are)
present in float.

STATION #		11439		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth	down plunge	plunge

S/C v. highly chloritic,
sl. to mod calcareous
Ch schist

- small calcite rhombs
to 2 mm dia give knobby
texture on foliation

STATION #		11440		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	122	12	NE				

- thickly layered med green to rusty green weath, pale to dk green Cl-musc phyllite

- sl. to non-calcareous
 - less ~~var~~ chloritic than
 Δ 11439

STATION #				11441				NTS																			
								N				E															
lithology								color																			
unit								S				strike				dip				direct							
S				strike				dip				direct				L				azimuth down plunge				plunge			

slump blocks of mod.
 calcareous dk. green
 metabasite

STATION #		11442		NTS	
		N			
lithology			color		
unit			S		strike
					dip
					direct
S	strike	dip	direct	L	estimate down plunge
					plunge

- O/C. of f. grained non layered
bt - hbl - f for gneiss
- prob a st coarser grained
version of the metabasite

No time for sketch.

Money 31, 32

1975

w K Akhurst

STATION #		11443		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down	plunge	plunge
	108	22	N				

- strongly foliated "spotted" schist = flattened chloritic clots to 1.5 cm in a whitish feldspathic groundmass
- looks like a strongly foliated metagabbro.

North Lakes Area

June 20/81

STATION #		11444		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
	009	20	E		020		02

thinly interbedded impure gneiss
 & feldspathic gneiss
 and biotite-musc. - hbl schist
 ("striped unit")

- abundant feldspar gneiss
- pale grey to brown. rusty tan to brown weath.

STATION #		11445		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	118	26	NE				

- interlayered chloritic schist (metabasite) and carbonaceous siliceous phyllite
- chlorite schist is mod. calcareous

- note - some of the metabasite is coarser grained, more gneissic

- may be a flow or small intrusion (In SK only)

STATION #		11446		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	093	27	S				

f. grained dk green chlaurite
schist

STATION #		11447		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	078	24	S				

- 1/2 in auger guess (badly
 altered) w/ foliation
 bt. schist

STATION #		11448		NTS			
N				E			
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
		103		48		N	
				azimuth down		plunge	
				plunge			

rusty weath felsic
metavals. — no relict
phenos at all

STATION #		11449		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	azimuth down		plunge	
	106	09	A				

- fine grained sl, rusty tan weath
platy weath brecciated of 7-10 gr
gneiss.
- no auger present - looks
somewhat like gneiss in
"AC-DC gneiss" unit - lot
as small clasts 1-3 mm
in dia in Q2. tan
quartz mass.

STATION #		11450		NTS	
N					
lithology			color		
unit			S	strike	dip
S	strike	dip	direct	azimuth down plunge	plunge

- altered hbl-rich foliated
plutonic rock - composition
variable - fsp content
varies from 0% to 30%
(from biotite ~~hbl~~ hbl gneiss to
hbl monzonite).

- is intruded by a
biotite granite - med grained
non foliated - dyke ~
1m wide

STATION #		11451		NTS	
N			E		
lithology			color		
unit			S	strike	dip
S	strike	dip	direct	azimuth down plunge	plunge

- large slump blocks of well foliated sl. biotitic Kzsp auger gneiss -
- Kzsp eye to 1 cm dia
- have a foliated layer of gtz ± Kzsp > bit gneiss 2 m thick.
- this may be Kzsp auger gneiss intrusive into AC-DC gneiss

STATION #		11452		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- slung blocks of muscovitic
rusty weath glz. fspn
schist & gneiss

AC-DC unit gneiss

STATION #		11453		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				azimuth down		plunge	
				plunge			

- sl. slumped O/C of sl
 carbonaceous, sl. to
 med. calcareous bt-gtz -
 f. par schist

XXXXXXXXXXXX
 Fuel - up -

STATION #		11454		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
						076	11
						direct.	
						S	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	136	12	NE		012		08

- mod calcareous cl-musc phyllite
- well dev. comp. in layering (dk green - pale green - white) on scale of < 1 cm $\frac{1}{2}$, deformed into minor folds w/ axes as given; fold axes as given verging to NW
- later foliation @ 076/115
 - no folding visible assoc. w/ this foliation

STATION #		11455		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	103	76	N				

~50-50 metabasite (chlorite +
 bt + fspn schist) and
 carbonaceous siliceous
 phyllite. Interlayered on a
 scale of 1-5 m

(6 samples)

STATION #		11456		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge

- f. grained white to rusty orange weath muscovitic feldspar rich gtzite (felsic metagabbro)
- as go struct down section to NW, gtzite v. rusty weath, d. pyritic felsic diff. w/ minor banding (soft, heavy) musc. - feldspar schist then this is all struct underlain by mod. carbonaceous phyllitic gtzite.
- Have some f. grained green gtzite present as angular float as well

STATION #		11457		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	estimate down plunge		plunge
	073	20	N				

- relatively f-gr. Kyan-blue
gtz augen gneiss
- Kspans & blue gtz grains
to 0.8 cm dia.

- also present are (the inevitable)
biotite schist lenses - foliated
and up to 3m thick.

STATION #		11458		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge
	019	08	S				

- interlayered med grained
 bt > gtz + fsp + schist (similar
 in comp to the rocks in
 the auger gneiss) and
 (gtz + fsp) >> bt gneiss

- also a narrow (~ 1 m thick)
 band of carbonaceous
 biotite & gtzite.

STATION #		11959		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

- S/C of 2L Mother
Kasper geyser gneiss

O/C on the run!!

STATION #		11460		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct	L	azimuth down plunge		plunge
	092	32	N				

- sl rusty tan to orange weath
v. strongly tabulated musc-
qtz - fgsen schist

- felsic metavolcanic prob -
still can see rare
relict Kfsen phenos (badly
altered though)

STATION #		11461		NTS	
N					
lithology				color	
unit				S	strike dip direct.
S	strike	dip	direct.	L	azimuth down plunge

- inter-layered dk green
chlorite schists, rusty weath
muscovite gneiss, baritic
and pyritic musc. phyllite,
and rusty weath. musc-gt &
Fe-carb. schists.

- looks like inter-layered
mafic & felsic ~~schists~~
metavolcanics

- the baritic musc gneiss
locally as clasts of
f.g. dissemin. Pyd to
1 cm dia. - relict
SUS clasts ??

XXXX FUEL X X X

STATION #		11462		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	067	92	NW				

- 10 feldspar augen gneiss
#4

- K-feldspar augen (subhedral to anhedral) to 2 cm dia
in a v. qtz rich, sl.
basaltic matrix.

- also fars (you guessed it!)
plagioclase bt. feldspar
gneiss lens $\geq$ 10 m long
and from 0.5 - 1 m thick

STATION #		11463		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	azimuth down plunge		plunge
	085	10	N				

- interlayered (on a scale of 1-3 m) bt-feldspar gneiss, cs. granoid red green actinolite schist & biotite glz - fsp gneiss - appears to be cross cut (I think!) by Kfs augen gneiss body which is paler weathering

STATION #		11464		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
						azimuth down	
						plunge	
						plunge	

- thickly layered & unmetamorphic
qtzite & feldspathic qtzite
& banded calc-silicates
- also K₂O augen gneiss
nearby - not sure
what relationship is to the
other gneisses

STATION #		11465		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge
	008	39	E				

- thinly ~~inter~~ interlayered (1-2m)
bt-fs par schist & gneiss
and muscovite feldspathic
qtzite & calc silicates
- same sequence as last
stop

STATION #		11466		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge
	036	16	SE				

buff to med dk rusty
 brown weath. f. grained
 at thinly layered white to
 pale grey gtales w/
 muscovite partings

"-fringed cont."

STATION #		11467		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
	156	12	SW				

- cream to dk green, thinly
layered siliceous chlorite
schist locally w/ biotitic
partings. Rare interbeds
of QZ - Fsp AR schist to
0.5 m thick.

- Q/C is predominantly chlorite
schist

- rock is intensely deformed,
foliation is axial to the
recumbent small scale
isoclinal

STATION #		11468		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	

- massive to sl. foliated
 well crystallized non-garnet-
 iferous 2-mica granite

STATION #		11469		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
						plunge	

- massive med gr. 2 mica granite
- locally v. st. foliated.
- abundant pegmatic dikes @ random orientation

STATION #		11470		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	
	070	05	SE				

- thinly interlayered dk green
 chlorite - biotite - feldspar schist,
 + gneiss of feldspar - feldspar gneiss,
 and rare

STATION #		11471		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	strike down plunge		plunge	
	145	22	NE				

- moderately foliated 2 mica
granite

XX X X XXXX

FUEL - UP

STATION #		11472		NTS					
				N		E			
lithology				color					
unit				S		strike		dip	
								direct	
S		strike		dip		direct		azimuth down	
		144		18		NE		plunge	

- Thinly layered med to coarse to
rusty to weath phylitic gtz to
and gtz - musc schist

STATION #		11473		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge
	085	48	N		

- brown weath thinly layered
 (Scale of 1 → 10 cm) f. grained
 of zite w/ muscovite partings
 underlain by fine - med
 grained dk green chlorite-
 actinolite - biotite - feldspar
 schist (metabasite)

STATION #		11474		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direction				
	160	20	NE				

non-foliated 2 mica granite
 intrusive into bt-fs per-gt
 schist & gneiss

STATION #		1147S		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	180	18	E		148	18	

- brown weath micaceous (biting)
gtzite, thinly layered
- overlain by st-cl-actinolite
schist
- then have a body of brown weath
cs. grained serpenitized UMF.
- much of the serp. has gone to
actinolite
- not sure what the relationship
between the UMF, metabasite
& folio is.

STATION #		11476		NTS	
		N		E	
lithology			color		
unit			S	strike	dip direct.
S	strike	dip	direct	L	azimuth down plunge
					plunge

- thinly layered muscovitic
 of 7-feldspar schist and
 gneiss, and CL- Actinolite-
 feldspar metabasite, intruded
 by non-foliated granite
 dike (locally pegmatitic)

STATION #		11477		NTS	
N			E		
lithology			color		
unit			S	strike	dip
S	strike	dip			

non- to moderately foliated
 med grained massive
 2 - mica granite -

STATION #		11478a		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	strike	dip	direct.

- med to d/k green, orange-brown weath, fine grained greenstone - locally ~~plagioclase~~ plagioclase-phypic

- massive non-foliated, looks like AR G basalt.

- also minor ~~st~~ f-grained diabase

Transverse N-SS along ridge
dus S. of Whitefish LK

June 21/81

STATION #		11478L		NTS	
N				E	
lithology			color		
unit			S	strike	dip direct
S	strike	dip	direct	L	estimate down plunge
	132	18	NE		35 3 18

(crenulation
unstable)

- thinly layered med brown to sl. rusty
br weath phyllitic gt zite and
gl - musc phyllite locally w/
med grey sl carbonaceous
beds (in S/C only).

- pronounced foliation

- v. weakly dev. crenulation unstable
developed - can't measure the
crenⁿ cleav (not well
enough dev) but dips ~ 75° NE

- as up thrust up section, get
inter beds to 5 m thick of
sl. calcareous cl phyllite w/
white feldspar dots ass. w/
sl. carbonaceous phyllitic of zite

STATION #

11479

NTS

N

lithology

color

unit

S

strike

dip

direct

067

19

S

S

strike

dip

direct. L

azimuth

down

plunge

125

18

NE

089

05

rusty for weath. thinly layered
muscovite foliation g. slate - v. fine
grained. locally st. chloritic

- v. well dev. pencil fracture -
NE dipping foliation is 11
layering, and is best dev.

- lineation is the intersect of
the two cleavages and is 11 a
vertical shearing lineation

- this may be at least in part
felsic metagranite - although don't
see any relic phenos

STATION #		11480		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	dir.	L	plunge
	108	22	N		096
				plunge	00

- thin layered tan to rusty
 brown with f.g.v. phyllitic
 feldspathic sites. Locally w/ v. minor
 carbonaceous quartzite (in float)

- main foliation is 11 layers (as
 given) - have another sub 11
~~to~~ cleavage that gives a pencil
 lineation w/ a 11 mineral
 streaking lineation

STATION #		11481		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
						082	52 N
S	strike	dip	direct.	L	azimuth down plunge		plunge
	070	19	N		272		04

tan to rusty orange, platy weath.
 muscovite feldspathic gneiss
 and musc. gtz-feldspar
 phyllite.

- Section 11 layering is shallow-
 dipping; location given is
 cleavage intersection

- have rare narrow (~1 cm)
 rods of pyrite & chloritic
 schist (see sample)

- this again, looks like a
 felsic metavolc. w/ more
 mafic stuff(?) interbeds

STATION #		114BZ		NTS			
		N				E	
lithology				color			
unit				S. common layers		strike	dip
						082	44
						direct. N	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	083	53	N				

- zone of highly pyritic, v. rusty
 weath gtz. - 15 per-muss phyllite,
 gtz-muss phyllite muss-chlente
 gtz phyllite, and chlente
 muss phyllite, w/ v. micron
 carbonaceous muss phyllite.

- SUS are concentrated in
 foliiform bands (11 common
 layers) to 1m thick.

- SUS are abundant over a
 structural thickness of ~ 15 m

- SUS are mainly pyrite, as
 desicm cubes and irregular blebs
 to 0.5 cm dia, and as foliiform
 bands 750% py to 1.5 cm thick
 (over)

- also have rare bands of py + galena and abundant hydrozincite
- the chlorite schists appear to struct. overlie and interfinger w/ the sulfide bearing layers - locally a good relic igneous texture (chloritic pseudomorphs after mafic phenocrs.) is preserved in the overlying chlorite schist.

- have local segregations of
bullqtz and cs. grained
Fe-carbonate w/in the chlorite
schist as well

The sketch shows a hill profile with several labeled features:

- Top left:** "drop off" with a downward arrow pointing to "11478".
- Left side:** "N" with a downward arrow pointing to "glate".
- Left slope:** "metabrite" with a downward arrow pointing to "11478".
- Center peak:** "felsic meta-sch" with a downward arrow pointing to "11481".
- Right slope:** "glate" with a downward arrow pointing to "11482".
- Far right:** "carb. phylite" with a downward arrow pointing to "11483".
- Bottom center:** "S45" with a diagonal line indicating a structural feature.

STATION #		11483		NTS			
N				E			
lithology				color			
unit				S comp layering		strike dip direction	
S	strike	dip	direction	L	azimuth down plunge		plunge
	083	43	N				

- pale gray to med brn weath. F. grained thinly layered phyllitic gts underlie the SLS bearing schists
- These are in turn underlain by carbonaceous siliceous phyllites and phyllitic gts
- ~~the~~ layering has flattened right out by this station
- as we move S along ridge foliation & layering steepen up again to ~ 30° N
- get several v. narrow (< 3m) interbeds of rusty weath. felsic metabasite, and dk green ~~calc~~ calcareous chlorite schist in the carbonaceous & schist

STATION #		11484		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	
Layer 1	092	39	N				

- section beneath the carbonaceous phyllitic gale and siliceous phyllites.
- mainly consists of interlayered white to tan to rusty brown weakly thinbedded f. gr. phyllitic quartzites, gt + feldspar schists, and v. rusty weak musc-gt + feldspar schists, with minor interbeds to 2 in thick of carbonaceous chlorite schist.
- layering in the gt sites is on a scale of 2 → 5 mm

STATION #		11485		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L				azimuth down plunge		plunge	
096		45		N		098 00	

v. rusty orange to red-brown weath
 v. fine grained sl. pyritic felsic
 metavolcanic → phyllitic
 feldspathic gneiss

- in the most rusty weath bands
 have narrow (< 1 cm) bands
 that are > 50% py.

- abundant highly pyritic
 (> 10%) chlorite gl? - musc
 schist in S/C

STATION #		11486		NTS			
N				E			
lithology				color			
unit?		S		strike		dip	
S	strike	dip	direct.	strike down plunge		plunge	
	060	42	NE	260		25	

thinly interlayered (4 cm → 20 cm)
carbonaceous phyllitic gtzite
and v. rusty weath. sporadic
gtz. Saper-nase phyllite and
phyllitic feldspathic gtzite.

* in some of the feldspathic gtzite
layers have small (1-2 mm dia.)
gtz eyes and badly altered
feldspars preserved — prob.
relict phenocrysts in felsic
meta volc.

STATION #		11487		NTS			
		N				E	
lithology				color			
unit				S		direct	
S		strike		dip		plunge	
045		33 NW		252		22	

- rusty weath. phyllitic feldspathic
qtzite (metavols) as in
Δ 11486 still w/ rare inter layers
of carbonaceous & siliceous
phyllite
- layering is // strongly dev.
foliation
- well dev. mineral streaking
lineation

Traverse N-S — continuation of
to June 21/81 traverse

June 23/81

STATION #		NTS			
		N		E	
lithology		color			
unit		S	strike	dip	direct
S	strike	dip	strength down plunge		plunge

WR Samples 1-4 taken for
geochem analysis (locations marked
on photo for traverse) — all near $\Delta 11987$

WR-1 — pale greenish grey, pyritic
(2-4%) phyllitic gneiss — meta
chert. V. rusty weath, thinly
layered

WR-2 — sl. rusty weath seems to
be f.g. phyllitic gneiss. V. d.
pyritic

WR-3 — pyritic (1-2%) felsic
metavolc — Muscovite-gne-
t-spar sheet

WR-4 — pyritic, rusty weath
felsic metavolc.

STATION #		11488		NTS			
N				E			
lithology				color			
unit				S. <i>Chlorite</i>	strike	dip	direct.
					040	37	NW
S. <i>garnet layers</i>	strike	dip	direct	50/51	azimuth down plunge		plunge
	018	35	W		268		35

- sl. to var calcareous chlorite-musc-gtz - feldspar schist. Med to dk green, weathers med greenish grey. Locally contains large (> 2m) irregular bodies of massive clear to white gtz and smaller bodies of v. co. grained marble. This chlorite schist is overlain (struck) by musc-gtz-Kspn schist, at least some of which is a more igneous rock w/ Kspn eyes (relict phenos) to 1.5 cm dia, and locally smaller gtz eyes. The U-1 schist is immediately underlain (see section on next page) by

STATION #				NTS			
		N				E	
lithology							
unit				S		direct	
S	strike	dip	direct	L	25m south down	plunge	

- strongly foliated med grained,
badly sheared & altered,
Hbl, Qtz, monzonite, stit
w/ euhedral Hbl and rounded
blue Qtz grains preserved.
This rock locally has fine
grained chert py and locally
abundant cubes of pyrite
(also in the (L-schist))
and is locally v. rusty with
Contact w/ the meta plutonic
rock is || rough layering

Foliated metabasals } Δ 11487
meta cherts }
Foliated K-feldspar gneiss 10m
Atlantic schist 10m
Hbl granodiorite.

STATION #		11489		NTS	
		N		E	
lithology		color			
unit		S			
S		strike		dip	
		060		42 NW	

~ foliaceous layer of v. rusty weath
 sl. papitic (fine dissem.) strongly
 sheared & altered is granoid

Kyan-qtz-plag-hbl intrusive.
 Locally is co. granoid & preserves
 good igneous equigranular texture,
 elsewhere is completely sheared
 and & looks almost like a
 debris matrix

- appears to be ~ 10-15m thick
- prob a late stage dyke or
 sill

Note - the equigranular part (see
sample) looks v. similar to
 the RCA phn to the NW

STATION #		11420		NTS			
		N				E	
lithology				color			
unit		poorly dev. jointing		→ 085		56 S	
S	strike	dip	direction	amount down plunge		plunge	

- massive altered non foliated
hbl granodiorite. Hbl is
chloritized around rims
Rock is med grained, equigran.
Qtz is clear to sl. bluish

- have rare inclusions of ~~the~~ fine-
grained hbl-rich diorite (?) to
5 cm dia. These are v. reminiscent
of the main part of the Thompson's
Gneiss

- Note the rock is essentially
unfoliated thin far in from the
margin of the pluton - foliation
is progressively more weakly dev.
as move in from contact

(over)

STATION #		11490		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	smooth down plunge		plunge

- as move along ridge to SE, get
 more abundant inclusions and
 irregular zones to 1 m(?) dia
 of the fine grained mafic
 material (hbl gte diorite @ this
 point) which are commonly
 surrounded by mafic free
 gneissite zones 1-2 cm
 wide

* note - locally have irregular
 co. grained, less hbl rich
 zones w/ diffuse borders
 These locally contain
 biotite

STATION #		11492		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direction	strike down		plunge	
	078	42	N.S	078		00	

- protomylonite to mylonite zone
w/in the Wb1 granulite
U. strongly foliated zone which
in part looks like a f. grained
meta volc. or meta sed, but
can trace the ~~rock~~ rock across
strike into progressively less
sheared granulite

Zone of most intense shearing (mylonite)
is ~8-10 meters thick, rock immediately
beneath it are un^(non-foliated)sheared, but
a shearing foliation is present far
up to 20m ~~is~~ thrust. above the
mylonite zone

STATION #		11493		N S	
lithology				E	
unit				v. weak folia 132 15 SW	
S	strike	dip	direct	plot	
	092	32	S	090	00

- moderately to strongly foliated highly altered H₂O grade schists.
- well dev. folⁿ - E mineral streaking lineation
- also have a v. weakly dev. SW dipping foliation (whose intersection w/ the main foliation is || the min streaking lineation)

STATION #		11494		NTS	
		N		E	
lithology					
unit					
S	strike	dip	direct	L	
	090	42	S		

massive med. gr. sl. indurified
hbl of gneiss as above

nearby (~100' to east) foliation
is med. to well dev.

STATION #		11495		NTS			
		N				E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
						L	
						azimuth down	
						plunge	
						plunge	

- massive med grained epidiorite,
locally biotitic Hbl of ?
marginalite / apophanite

- locally looks a bit like parts of
the R(A) pluton - not like
the ~~of~~ pink - blue-green part, tho'

STATION #		11496		NTS			
		N					
lithology							
unit							
S	strike	dip	direct	down	plunge		

- crosscutting near vertical dyke of epidotized granite
Contact is sharp, oriented of 098/78 N No chilled margins dev, no inclusions present in the dyke
- dyke rock is massive, non-foliated
- country rock is also massive and unfoliated @ this point
- dyke is ~10m thick

X Can land chopper nearby for streams

STATION #		11497	NTS	
		N		E
lithology				
unit		S	strike	dip
S	strike	dip	both down	plunge
	103	55	S	272 10

(immediately W of 11496)

- highly sheared med gr. gtr.
Hbl augen gneiss - sheared out
Hbl granodiorite

- v. strongly foliated, w/ a well
dev. mineral streaking in matrix
This station is <100 m from the
altered granite dyke

- shear zone is ~ 5 → 10 m wide

STATION #		11498		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	estimate down plunge		plunge

- massive red granitic rel. gts
rich gneissite

STATION #		11499		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
	110	33	N				

- massive f.u. d. foliated (appears to be flow alignment) Hbl granite/gneiss w/ Kspn mega crystals to 2.5 cm dia

- contact w/ Hbl gneiss is not exposed (under snow)

STATION #		11500		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	strike down		strike	
	115	13	N	plunge		plunge	

- massive granite, V. poor in mafic (45%). No megacrysts.

STATION #		11501		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	north down plunge		plunge	

- chloritic augen gneiss w/
1/2 cm ^{87z} augen to 1 cm dia.
- moderately foliated, NNE
dipping - no time to measure

- no time to check relation to
pluton

* recheck on June 27th

* This is part of the pluton - it
immediately overlies (struct)
in conformable (contact is "
foliated" is "
layering in under
lying rxn) thinly bedded st.

gtz - f-gneiss and white of
dk grey carbonaceous f.
gr - gtz

Neard of Tushitua R. Phuton. June 24/81

STATION #		11502		NTS			
				N		E	
lithology				color			
unit				S comp layering		strike 120	
						dip 17	
						direct. NE	
S,		strike		dip		azimuth down plunge	
		103		30 N		097	
						05	

- poorly layered pale grey to greenish grey phyllitic f. grained gneiss and felsic tuffaceous metachert.

- slightly rusty brown to orange weather

STATION #		11503		NTS					
		N						E	
lithology				color					
unit				S		strike		dip	
								direct	
S		strike		dip		north down		plunge	
5.115		090		10 N		285		04	

- med grey green to white
 med to highly rusty weath
 d. pyritic mass ($\pm$ chert) qtz
 fawn phyllite

- locally contains narrow, sl carbonaceous
 siliceous phyllite interbeds

- foliation given is shearing // canyon
 layering

- location is mineral stretching

STATION #		11504		NTS			
				N		E	
lithology				color			
unit		S		strike		dip	
						direct.	
S	strike	dip			azimuth down		plunge
	112	29	NE		plunge		

- thinly layered pale grey to f-gr g-tale and phyllitic pale grey to pale greenish grey to tan, locally d. rusty weather f-gr. g-tale.
- fairly blocky weather, unlike the felsic meta-volcs & tuffaceous meta-cherts. Also less rusty weather.
- this unit underlies (covered) the felsic unit.

STATION #		11505		NTS					
		N						E	
lithology				color					
unit				S		strike		dip	direct
S		strike		dip	direct	L		azimuth down plunge	
		114		24	NE		086		00

(right in bottom of creek)

- strongly foliated & lineated
as grained granite (RCA granite)

- v. colorful - large pink K-feldspar
mega-crysts to 3 cm dia, along
w/ sheared, and chloritized, &
epidiotized plagioclase + mafics, and
clear quartz.

* the valley bottom here is filled
(to 20 m thick or more) w/
ferricrete - gravel to large boulder
size blocks of pyritic, v. rusty
weath. fibrous metavol., metachert,
and chloritic metavol. Pyrite is
layered // comp. layering. No other S&S
seen.

STATION #		11506		NTS		
		N				E
lithology			color			
unit		S ₁		strike	dip	direct.
				110	26	<u>S</u>
S°	strike	dip	direct.	north down plunge		plunge
*	125	15	SW	50/S	268	17

- v. rusty weath. thinly interlayered
($< 1 \rightarrow 150$ cm) musc - gtl - fgs -
schist, phyllite fgs. gtl to
carbonaceous phyllite gtl and
siliceous phyllite and microm
chert - musc - gtl - fgs - phyllite
- all are d. pyrite (locally
banded)

* disregard these measurements -
this is a large, sl. disrupted
slide block that has moved at
least a short distance down slope

STATION #		11507		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				(⁰ S S ₁)	040	05	SE
S	strike	dip	unit	azimuth down plunge		plunge	
	017	18	N	177		02	

- pale gray to green sl rusty brown
to gray weath. sl phyllitic
fg. gtzite

- abundant clear to white gtzite veining

- strongly foliated, w/ S₀/S₁
intersected // mineral streaking
lineation

- locally has numerous dk gray, sl.
carbonaceous bands.

STATION #		11508					
		N				E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	131	30	SW	S 1/2	286	11	

- sl. to mod rusty weath f.g.r.
cream to white sl. phyllitic g. slate

STATION #		11509		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				1	178	11	E
S ₀	strike	dip	comp.	L	slough down plunge	plunge	
	111	48	N	S/S	111	12	

- sl. rusty tan to grey weath
fine grained pale grey to cream
to pale greenish grey E gr. g. slate

- blocky weath, only locally
spherulitic

STATION #		11510		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L		azimuth down plunge	plunge
	085	59	N				

- contact between bleached white to rusty in weath (buff fresh), sl pyritic, phyllitic feldspathic gneiss and v. strongly foliated sl. pyritic med grained ~~W/S~~ ^{W/S or S/L} gneiss w/ relict qtz eyes still present. This unit weathers med grey green, slabby. Becomes progressively less foliated as move away from contact. Contact not exposed in SLK only, but is well located.

- in O/K ~ 400M from the contact, have a poorly def. foliation @ 085/59N
- also have a primary layering in the rock that has been deformed into a mesoscopic ($\lambda = 1m$) Z-fold w/ axis @ 092/21 and axis @ 070/66S

STATION #		11511		NTS	
N					
lithology			color		
unit			S	strike	dip
				138	16 N
S	strike	dip	direction	L	azimuth down plunge
	078	17	S		

* 083 / 55N

- doubly foliated very rusty weathered felsic pyritic metaquartz, meta chert and a minor amt of pyrite (to 5%) extremely rusty weather chlorite metaigneous rock - dk green, seems to have attract pseudomorphs after mafic phases.
- N/E dipping foliation seems to be most pronounced, although this is not the case every where in the O/C.
- this section underlies the gabbro section @ 11511

* approx 100 m S along ridge, have one foliation only, as given

WR - chip samples @ $\Delta 11511$

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

WR-5 rusty weath., buff to cream colored, sl. pyritic, v. fine grained of rts (meta chert?)

WR-6 v. rusty weath. pyritic (w/ abundant bar work) felsic meta-vol.

WR-7 - v. pyritic, rusty weath. med grey to greenish grey felsic meta-vol or buff. chert.

WR-8 v. pyritic & rusty weath. dk green chloritic meta-volcanic rock. Seems to have pseudomorphs after relict phenos. This layer seems to be only a few m thick and v. foliated (|| NE dipping foliation)

STATION #		11512		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
						azimuth down plunge	
						plunge	

just S along ridge from Δ 11511

- large lense of pale greenish grey ribbon cherts (layers 1 → 10 cm thick w/in the felsic metavolcs. O. canus as very large blocks (> 5 m dia) that are Q. rotted - from O/C ~~prod~~ pattern this body is almost vertical @ this pt. and flattens rapidly to the W. ~~the chert body is~~

N. W. side of Tachistwa
R. Pluton

June 27/81

STATION #		11513		NTS	
		N		E	
lithology			color		
unit			S		strike dip direct.
S	strike	dip	direct	strike down plunge	plunge

massive blocky weath. & med
gray weath. v. ls. & varied
bl granite w/ Kspn mega-
crysts to 3 cm

STATION #		11514		NTS			
				N		E	
lithology				color			
unit				S		direct.	
S		strike		dip		direct.	
		143		42		NE	

- tilted zone in non-megacrystic
hbst-granite as above.
- zone is ~ 2m wide - rock varies
from sl. to strongly foliated
- green sl. rusty weather

STATION #		11515		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
		115		30		NE	
				strike down plunge		plunge	

- sparsely to highly megacrystic
 hbl of monzonite - granite
 Appears to be a sl. more hbl-
 rich version of Q11514.

- megacryst - poor zones are
 sl. to moderately foliated
 (looks like a shear foliation)
 and the Megacryst - rich zones
 generally are unfoliated.

STATION #		11516	NTS			
			N	E		
lithology			color			
unit			S Joints	strike 030	dip 16	direct. NW
S	strike 135	dip 09	direct. NE	azimuth down plunge		plunge

- badly altered & richly megacrystic
Hbl (± Bt) monzonite (Ksp megacrysts
to 7 cm long, ~~at~~ aligned || foliation,
make up 20 → 60% of the rock)
with foliaform layers 15 → 50 cm
thick of foliated mpx por, nor-
megacrystic granite.

- foliation is well dev. but there is
no obvious min. striking lineation.
The leucogranite bands are || foliation
as best can tell, but converge
somewhat. May be late folia
differentiates of the pluton that
~ parallel (but not quite) early
flow alignment, and they have
a superimposed shear foliation
|| that alignment.

STATION #		11517		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
					123	47	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
shear	109	32	N				

- 132 15 NE (low down in section)
- strongly sheared Hbl-bt ^{plagioclase} gneiss
 - internal. camp in between the Hbl gneiss & the Hbl gneiss of the pluton - has somewhat larger Kzons than the avg. grain size of the rock.
 - This Δ is just above the contact w/ the meta-seds.

~ 100 m to NW - have sheared, locally megacrystic Hbl-bt gneiss in foliiform contact w/ sl. rusty weath. thinly layered (scale of 5-20 cm, clear banding) siliceous f. - f. - bt gneiss - f. - gr. locally may be sl. carbonaceous (foliation (S.) given is in gneiss) (cont'd over)

- as go down street section to the
w, pass thinner thinly layered
(1 → 20 cm) bt gross as above,
w/ interlayered of f. gr carbonaceous
g slate and diffuse zones
and large foliiform bodies
of Kyan megacrystic Hbl
gtz marzante - Hbl = 10-25%
of rock - relatively mafic

In this part lower Hbl rich (to 60%)
megacryst free med grained zones
to 30 cm thick // foliation

STATION #		11518		NTS	
		N			
lithology		color			
unit		S		strike	dip
S	strike	dip	direct.	Limit	est. with down plunge
11518	108	48	N	shale	107
					03

v. massive, blocky med grey to
 sl. rusty brown weath fine
 to med grained "mixed gneiss"
 consisting of sl. micaceous gneiss
 leucogranite gneiss, bt-feldspar-gr
 gneiss and megacrystic
 Hbl -> bt granite/gneiss
 -AC-DC gneiss w/ intrusive
 granite

STATION #

11519

NTS

N

E

lithology

color

unit

S

strike

dip

direct

S

strike

dip

direct

azimuth down
plunge

plunge

108

55

N

crenⁿ
(poorly dev)

297

11

well dev. 092
crenⁿ

16

thinly layered lt - musc - gtz -
 fsp. schist / gneiss, and med
 greenish grey sl. schlastic gtz -
 fsp. - musc - lt gneiss w/ dk
 greenish grey fine gtz eyes.

- also Stuped cream to
 dk green calc schistates

STATION #		11520		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct.
\$	strike	dip	direct.	L	azimuth down plunge	plunge	
	125	58	NE		125	00	

Thinly interlayered (5-20cm)
fine to med grained gtsite and
pale to dk green calc-silicate
~~schists~~ greiss, locally w/ small
tan grey med grained marble pods.
to 15cm x 30cm

- Locally, this unit is v. rusty with
- foliation is // layering
- locally cross bedding is
preserved in the gtsites - tops
are up (to the NE)

- immediately up slope (down
street section) get into thinly
bedded dk grey (carbonaceous)
and white fine to med gr
gtsite, sl, micaceous

STATION #		11521		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	125	55	NE		120	05	

- Thinly layered cream to pale green to med brown grt rilles and calcisilicates. Brownish bands are knottier - usually occur only as partings
- Blocky to platy, med grey weath.

NEVILLE CROSBY INC.

STATION #		11522		NTS			
		N				E	
lithology				color			
unit				S		strike	
				S _o		dip	
				small		140	
						35	
						NE	
S		strike		dip		direct.	
125		45		NE			
				L		S _o /S ₁	
						estimate down plunge	
						112	
						plunge	
						02	

- pale green siliceous (chert?)
glaucophane & calc silicate

- have S_o/S₁ lineation 11 fold
axes of isoclinal to tight
minor folds - Z vergence,
 $\lambda \approx 5-15$ cm

STATION #

11523

NTS

N

E

lithology

color

unit

S

strike

dip

direct.

S

strike

dip

direct.

azimuth down
plunge

plunge

097

56

N

286

05

100 m
to W

035

12

NW

108

09

- blocky with well foliated migne
gt site - musc + bt + chlorite
to 1070

- also in flat mined up slope
is rusty brown weath, red to dark
green, of calcareous meta-
basite - locally has relict Wd.

- compn layering in gt site || foliation

- as go down section to W, foliation
flattens rapidly and get a
lot of the metabasite (w) Wd/
or cpx and fgsen eyes to 2 mm
along w/ chloritic feldspathic
quartz and pole to med green
of rusty weath Ch - musc +
schist -

STATION #		11525		NTS	
		N		E	
lithology		color			
unit		S		strike	dip direct.
S	strike	dip	direct.	L	azimuth down plunge
	075	42	NW		plunge

- well foliated partially chloritized
Hbl granodiorite - fine to
med grained.

- looks fairly similar to the
Hbl gneiss of the T.R. Pluton.

- some conspicuous layering
visible // foliation

- as go down section start
to get into some "interlayers"
of feldspathic gneiss
until just before D/1526
have no more sheared interlayers

STATION #		11526		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	estimate down plunge		plunge
	096	36	N		085		6

- pale grey to greenish grey
thinly bedded (< 1cm)
f.g.r. locally siliceous
gt site - locally w/ fsp
eyes - almost certainly
not on igneous rock - too
siliceous

Chopper hopping
 Area of Grass Lks, N. Lake June 28/81

STATION #		11527	NTS			
		N		E		
lithology						
unit						
S	strike	dip	direct.	L	correct down	plunge
	045	15	NW			

- thinly interlayered ~~msc~~ musc-bl-
 gft-fs-pn schist (rel co-grained
 w/ boxwork after purple cubes),
 chlorite-bl-schist (metabasite)
 and pale reddish green striped
 calc schists.

- looks like striped unit at
 st. higher grade than normal.

- locally large elongate
 feldspar // lineation

STATION #		11528		NTS			
		N				E	
lithology							
unit							
S		strike		dip		direct	
#1		112		09		N	
						down plunge	
						090	
						plunge	
						00	

blaty, plow to blocky weath
med green weath. bititic &
muscovitic gte-fldsp
gross and ~~gt~~-feldspathic gte

- schistose micaceous partings

- locally has dk green spots
to 2 m dia - may be relict
mafic grains in an orthogneiss

AC-DC green unit

- mineral streaking location

* Note - an old picket line goes
thru here.

STATION #		11529		NTS	
N					
lithology					
unit		S ₀		dip	direct.
				048 20	NW
S	strike	dip	plunge		
1	044	09	NW	269	06

(Foliation || fold axis)

- measurements taken on benderlinks of large recumbent isoclinal S-fold in AC-X gneiss
 λ of fold = 15 → 20 m.
 lots of minor folds.
- lineation is fold axes || S₀/_S
 || mineral stretching lineation
- Note there is no foliation || comp. bedding
- rocks present are ls. bt schist, bt actinolite schist, sl. micaceous gtzite and pale green gtzite, and bt-gtz-feldspar gneiss. Interbedded on a scale of 5 → 50 cm.
 Locally lenses to 30 cm thick of pinkish weak ferrous carbonate.

STATION #		11530		NTS			
		N				E	
lithology							
unit				dip		direct.	
S	strike	dip	up down		plunge		
	048	17 NW					

- med brn to rusty tan weath
f-gr. muscovite & biotite gtr.
ferruginous and micaceous
gltzite Thinly layered
looks like "striped unit"
from the air.

- looks v. similar to "mixed
gneiss unit" and gneisses that
underlie the Tachetua & Pluton.

- lots of fsp & auger gneiss in
flats in stream

STATION #		11531		NTS			
lithology						E	
unit		S		078		N	
S	strike	dip	direct.	085		00	
	083	32	N	085		00	

- chlorite - bt schist E
chlorite > musc schist
underlain by blocky
weath. granitoid
gneiss - could be
ortho or para gneiss
- the gran. gneiss has
good segregation of
minerals into distinct
beds, separated by
well foliated glz.
from gneiss

STATION #		11532		NTS	
lithology					
unit					
S	strike	dip	direct.	strike	dip

- U. quick traverse @ dead
 road along ridge - go
 through thinly interbedded
 (scale of 10 - 150 cm)
 pale gray f. gr. grites micaceous
 feldspathic grites thinly
 bedded pale & dk green
 calc schists and gte -
 fsp - musc schists.

* also have one badly
 altered, v. sl. foliated
 body of Wbl granodiorite
 in S/C.

STATION #		11533		NTS			
		Alt				E	
lithology							
unit				strike		dip	direct.
S		strike		dip		dip	
		horizontal					

- moderately to well foliated
intermed. compn orthogneiss:
- overall compn is a wh-lt
granodiorite or monzonite.
- mafic content varies considerably,
from 20-50%.
- good relic texture preserved
tho.

STATION #		11534		NTS			
lithology							
unit				strike		dip	
S	strike	dip	direct	azimuth down		plunge	

— thinly interbedded micaceous
feldspathic gneiss, whl-bt
bearing feldspathic gneiss -
and banded bt-chl-bt
plagioclase gneiss.

XXXXXX
Fuel - up.

STATION #		11535		NTS	
lithology		N		color	
unit				strike	
S	strike	dip	direction	amount down plunge	pages

- massive white quartz (w/
abundant black lichen)

2 mica granite

- non-foliated

- 1/2 in megacrysts to 8 cm
long, some of which =
show zoned mafic inclusions

STATION #		11536		NTS			
		N				E	
lithology				color			
unit				strike		dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

- as above - massive bt (only, &
 no musc seen here*) granite w/
 abundant large (> 3cm)
 Kyan megacrysts

* actually there is a trace amt
 of muscovite

STATION #		11537		NTS			
		N				E	
lithology				color			
unit				strike		dip	
S	strike	dip	direct.	azimuth down		plunge	
S	135	16	SW	plunge			

- thin layered white & dk green
sl. mdy weath calc. sheets
& dk green blocky weath
calc. siltate w/p st. mottles
- no visible mineral streaking
formation

STATION #		11538		NTS			
		N					
lithology				color			
unit				strike		dip	
S	strike	dip	direction	slowness down		plunge	

- massive non-foliated
2 mica granitic

STATION #		11539		NTS			
		N				E	
lithology				color			
unit				strike		dip	direct.
S		strike				up down plunge	plunge

massive non foliated med
grained 2 mica granite
(bt > musc) no mega
crypts.

- locally altered & st
rusty weather

STATION #		11540		NTS	
		N			
lithology			color		
unit		strike		dip	direct
S	strike	down		plunge	
no meas. taken.					

- SKARN adjacent to pluton.
- Thinly to med. layered calc schists & grey weath med gr. locally garnetiferous marbles. Marble bands are up to 1 m thick @ drop off - but appears to be much thicker towards SW
- calc schists are banded green cream tan
- locally abundant garnet both in calc sch. and in marble.

(*) nodular sample of marble (complete w) meta garnets

STATION #		11541		NTS	
		N			
lithology			color		
unit			strike		dip
					direct.
S	strike	dip	plunge		plunge
	078	30	5	084	03

- rusty weath. thinly layered
micaceous gtsite - mined
overlies carbonate section
@ last stop, but is on
other side of photo

- good min. S breaking
reaction

- intruded in S/C by fine to
med grained dike or sill
(can't tell) of musc - bearing
granite - red - bleached

- lots of gto veining

STATION #	11542	NTS	
	N		E
lithology			
unit		dip	direct.
S	strike	dip	plunge

- massive megacrystic
bt $\Rightarrow$ musc grabb.

- well jointed a nodular structure

STATION #		1543		NTS	
		N		E	
lithology					
unit				dip	direct.
S	strike	dip	direct.	plunge	plunge
	070	20	NW	070	00

- blocky weath gl sandy
weath bt - gtz fsp
gross, thinly bedded
irregularly bedded and
pale to dk green calc-silicate

"5 striped unit"

STATION #		11541		NTS			
		N				E	
lithology							
unit							
				strike		dip	
S		strike		dip		direct	
						slimuth down plunge	
						plunge	

- massive blocky weak
foliated leucogranite
(kspn grains to 0.5 cm
still visible) gradational
into fine toned granitic
qtz - kspn gneiss

STATION #		11545		NTS	
lithology					
unit				dip	direct.
S	strike	dip	direct	azimuth down plunge	plunge
	145	38	NE		

garnetiferous
 layer of ^{bt}-chlorite gt &
 schist, locally rusty
 locally w/ trace dissemin
 chalcopyrite (locally
 abundant malachite stain)
 interbedded w/ chloritic gts
 and banded gts & chlorite
 schist.

- Cu-staining is only in the
 chlorite bt schist.

STATION #		11545		NTS			
		N				E	
lithology							
unit				S	strike	dip	direct.
S	strike	dip	direct.	N 279° E		dip angle	
	176	18 W		279		18	

blocky weath dk green
 metabasite (plag - chlorite
 ± bt, sl. to mod calcareous)
 intertongued on a scale of
 < 1 m w/ bt schist
 & pale green sl calcareous
 siliceous chlorite - musc schist

X X X X
 Fuel up

STATION #		11548 NTS	
lithology		N E	
unit		S	
S	strikes	dip	direct. L
			plunge

- rubble - S/C

- massive & blocky weath to well foliated & platy weath
granitoid greis -
v. poor in mafics < 2%

- red pinkish gray to pink
fresh

- lots of good euhedral Kspars
present to 1 cm dia

- foliation seen as a schistosity
defined by f.-gr. mssg
* ZIRCONS

STATION #		11549		NTS			
lithology				E			
unit				S			
S	strike	dip	direct.	azimuth down		plunge	

Thinly interlayered non-
to sl calcareous fine to
med gr. g. t. calc. schist
S, CL - BT 'schist

- all S/C

- rocks are sl. to moderately
weathered

- good fold hinges visible
in some blocks - $d > 3m$
ax Pz || main foliation

STATION #		11550		NTS			
				N		E	
lithology							
unit				S		dip	
				S ₂		12	
				015		E weak	
S ₁	strike	dip	direct.	L	azimuth down	plunge	
S₁	085	44	55	1/2	074	07	

best low.

chamber doubly faceted
apts w/ blade apt 2 eyes
to 3 mm and inter layered
lot schist

STATION #		11551		NTS	
		N		E	
lithology				color	
unit		S		direct.	
		0		119 23 NE	
S	strike	dip	direct.	L	azimuth down plunge
1	160	12	E	S ₀ /S ₁	092 06

- biotite^{plag.} - chlorite - musc. schist
- sl. to mod. calcareous
- dk green, weathers med gray green
- locally deformed into small folds
- compn layering? cuts across foliation @ low $\angle$
- locally have irregular lenses of pinkish 5m weath ferron carbonate || layering.
- layering defined by amt. of carbonate & amt of plag.
- photo location is S₀/S₁ || min shearing

STATION #		11552		NTS			
N				E			
lithology				color			
unit		S				direct.	
S	strike	dip	direct.	unit down		plunge	
1	092	115					

variably calcareous variably
 chloritic pale to dk green
 MS - CL schist and CL - MS
 schist - metabasite in
 part, at least.
 - most of the O/C is gl. to
 red rusty weath

STATION #		11553		NTS			
				N		E	
lithology				color			
unit				S		direct.	
S	strike	dip	direct.	L	down down plunge	plunge	

- no time for meas

- resistant ribs of sl rusty
brn weath. to siliceous
massive gl & gut
w/ eyes (rounded) to
3 mm dia

STATION #		11554		NTS			
				N		E	
lithology				color			
unit				S		dip	direct.
S	strike	dip	direct.	L	with down sides	plunge	

- co grained granitoid gneiss
- pinkish gray weath
- leucogranite common
- musc >> bt defining
a weak schistosity ||
the foliation

- this could be Grit Unit
gets are qtz - Kspar possible
cylm — but I don't
think so

(See Δ 11556)

STATION #		11555		NTS			
N				E			
lithology				002			
unit				S		dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
	082	13	S				

- sl. to mod cleavages, med
 gray to grey green weath
 med to dk green CL > MS+BT
 schist - metabasite

STATION #		11556		NTS			
				N		E	
lithology				color			
unit				S		direct.	
S	strike	dip	direct	azimuth down plunge		plunge	
	109	119	N	115		00	

- well foliated granitic
gneiss - co. grained
mafic (bt, st. chloritized)
22020

— this is the same rock as
△ 11554

STATION #		11557		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
		002		11		N	
				L		azimuth down plunge	
						298 03	

- rusty brn weath. micaceous
 quartz & thinly bedded cream
 E. dk green calc-silicates

STATION #		11558		NTS			
N				E			
lithology (bear-crop)				color			
unit				S	strike	dip	direct.
				0	080	25	S
S	strike	dip	direct.	L	azimuth down plunge	plunge	
1	090	09	N		255	04	

- moderately to strongly columnar med to dk green cl- ms phyllitic/compact
- locally has rusty tan weathering zones
- have med. gr. marble lenses to 20 cm x 75 cm w/ foliation warping around
- locally see canyon layering (defined by the carbonate lenses & by diff shade of green) deformed into small S-folds. (lineation given is fold axis || mineral streaking)

XXX FUEL - 4A XXX

STATION #		11559		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	north down plunge		plunge	
	049	24	SE				

- massive to moderately foliated -
gt - fsp - gneiss

- chlorite & muscovite define
a weak schistosity // foliation

- probably orthogneiss prob
related to Δ 11554, '556, 544

(END OF DAY)

June 30/81

STATION #		11560		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	
	016	09	E	098		05	

- think to mod. layered micaceous med gr. g. tuffs and feldspathic tuffs
- med grey to med brn. weath

STATION #		11561		NTS			
		N				E	
lithology							
unit		S		dip		direct.	
		1		110		035	
S	strike	dip	direct	azimuth down		plunge	
<u>0</u>	138	25	NE	280		06	

(dikes 11 mm.
shearing)

- hinge region of large recumbent fold - 3" vergence looking down plunge.
- rocks are dk green, strongly chloritic, CL > MS schist, and more blocky weath foliated CL-PLAG-MS schist and pale to med green weath, locally st. rusty med green micaceous and chloritic gtzite
- So measurement is on lower limb

STATION #		11562		NTS			
		N1				E	
lithology							
unit				dip		direct.	
S		strike		dip		direct.	
f51		044		28		SE	
				azimuth down plunge		plunge	

- thickly interbedded (< 30 cm)
 cs. gr. biotite & muscovitic
 gtz to per schist, and pale
 green to grey med. grained
 micaceous gtz

- med brn to cl rusty grey weath.

STATION #		1563	NTS	
		N		E
lithology				
unit				
		foliation in granite		dip circ. D19 68 E
S	strike	dip	direct.	azimuth down plunge
1	068	46	SE	

Layering & foliation in striped unit

- mod to well foliated 2 mica ^{hornblende-bearing} granite,
locally w/ K-feldspar phenos to
2 cm dia
in contact to NW w/ "striped
unit" pale to med green banded
calc - schists

- right adjacent to the
contact (not sure whether
an intrusive or country
rock), have ss. grains &
musc - bt - gt - fsp schist
w/ trace of hornblende

- foliation in this part is much
shallower dipping than in the
intrusion - similar to that in the
calc - sch.

STATION #		11569		NTS			
lithology						E	
unit							
S	strike	dip		run	orth down	plunge	plunge
	110	40	SE	striking	185	28	

- ss. gr. Kspen augen gneiss
- [musc - bt] makes up 15% of rock
- tourmaline - bearing
- overall compn - granite
- Kspen augen to 6cm length, all are lensoid.
- Rocks are somewhat rusty weath

STATION #		11565		NTS			
		N1				E	
lithology							
unit							
				067		20 SE	
S	strike	dip		azimuth down plunge		plunge	
	090	65	58				

0132/185W

SW contact of augen gneiss
body as @ Dist station

- tourmaline - bearing

- lose augen w/in 40m of
contact.

- foliation steepens near contact,
then flattens out into country rock

- Country rock are cr. gneiss
pale green to brown garnetiferous
musc - gtz - chlorite - Fe - carbonates
schists.

- contact appears to be conformable.

X FAX EX XXP X

STATION #		11566		NTS			
		A1				E	
lithology							
unit				dip		direct	
S	strike	dip	azimuth down plunge		plunge		
	060	52 SE					

- well foliated granitic Ksp. augen gneiss
- tourmaline bearing
- med brn to rusty augen, with
- v. minor bt; mainly musc.
- Ksp. augen to 3 cm length

* ZIRCONS

STATION #		11567		NTS			
						E	
lithology							
unit						dip	direct.
S	strike	dip			azimuth down plunge		plunge
	080	24	S				

- Thinly interlayered med to pale green and brownish green
MS = cl schist, med brown biotitic gtz & quartz ~~and~~ minor carbonaceous phyllites and v. siliceous med brown with ms. phyllites

- med brown schist by pink granitoid gneiss - locally w/ greenish musc + chlorite schistose bands

STATION #		11568		NTS			
						E	
lithology							
unit				dip		direct	
S	strike	dip		azimuth down plunge		plunge	
	012	10	E	082		09	

012 09 E (≈ 300m to the N)

- Sheared chlorite & muscovite
med gray brn weath. co.
qtz cpts - blue rounded
qtz cgs to 2 mm dia
make up > 40% of
rock locally, but
< 5% in some E
bands

- then traverse down slope to
N go through a fair
slug of qtz & qtz-fsp
with ch. chlorite siliceous
matrix & down through a bit
of carbonaceous siliceous phyllite
and med brn siliceous MS-phyllite

STATION #		11569		NTS			
E							
lithology							
unit				ike	dip	direct.	
S ₁	strike	dip	azimuth down plunge		plunge		
	035	16 SE	089		09		

- thinly layered sds to med
grey green weath, locally
w/ rusty orange patches
& bands, med to
dark green metabasite

- sl to med. calcareous

- locally have narrow (< 5cm)
siliceous rusty bands

S₁ is 11 comp. layers
- have interbeds (narrow, < 30m)
of carbonaceous Alucian
phyllite (over)

- as go up section (up creek)
go through a zone ~10m thick
of sheared med. grained, recessive
Omotic (fpx + bt + cpx?)
w/ "fish" < 1m long,
< 0.5m thick that are
unshaped, and undeformed

Note There is a considerable
thickness of metacarbonate
exposed here.

STATION #		11570		NTS			
						E	
lithology							
						strike	dip
unit							
S	strike	dip	direction	azimuth down		plunge	
	055	39	SE				

- traverse down slope
to Δ 11553

- starting good Kpsar auger
gneiss

- then go into visibleness
musc. gtzite (pelagonytoten)
then a narrow interval
of metabasite (med to dk
green CL > MS schist)

then more schist, ms. phyllite
and finally into the gtz-eye
crystals as @ Δ 11553

- note foliation (H layering)
flattens as go down slope

X X F U C K X X X

STATION #		11571		NTS			
							E
lithology							
unit				strike		dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

(just above old A-C cap)

- massive megacrystic
non-foliated 2-mica
granite
- megacrysts to 6 cm long,
locally w/ zoned mafic
inclusions
- much of this body is fairly
intensively jointed &
rusty weather

STATION #		11572		NTS			
						E	
lithology							
unit		S		strike		dip	
						direct.	
S	strike	dip	direct.	azimuth down plunge		plunge	
	048	33	SE	060		05	

- v. well foliated CS grained
Ksp or auger gneiss

U. Similar to White
Diner

STATION #		11573		NTS			
		A'				E	
lithology							
unit				dip		direct.	
S	strike	dip	direct.	down		plunge	
	055	22	SE				

- interlayered calcareous rusty
 weath fine - grt quartz, brown
 to purplish brown siliceous calc.
 schists, and pale to med
 green interbedded calc schist
 schists and marbles (bedded on
 scale of 1-5 cm)

calcsch. calc. have large garnet
 to 2 cm dia

STATION #		11574		NTS			
				N		E	
lithology							
unit						dip direct.	
S		strike	dip	direct	plunge down		plunge
		163	16	E			

fine-grained clean white to
 dk grey (carbonaceous)
 thinly layered strata

STATION #		11575		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
	609	28	E				

- section down ridge heading north.

↑ x calc phyllite & gts
felsic metarule (rusty banister)

260m

dk to black
fgr. magnesian-striated
gts
felsic metarule

↓

brn weath. v. siliceous
mass phyllite

lots of gts overlying

STATION #		11576		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

- all S/C

- fine to med grained,
locally brecciated, locally
sl carbonaceous
siliceous clastic rock.

- v. strongly oolitic

- blocky weath

STATION #		11577		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
006		25 W		slight down		plunge	

- interlayered micaceous
f. to med. grained st 7 fgr
schist and feldspar
qtzite, and med rusty
brown weath, highly
calcareous bt - Fe-carbonate
schist
- u. similar to parts of
△ 115 ~~73~~ 73

STATION #		11578		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S ₂	strike	dip	direct.	L	azimuth down	plunge	
S ₁	083	18	S	striking	063	13	

- thinly layered med grained
 varble (partly Fe - carb)
 w/ cl. ms schist layers,
 underlain by f. to med grained
 v. siliceous & micaceous
 g. rts.

STATION #		11579		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
	080	08	S				

- med green to pale grey-green
 highly garnetiferous, st to
 mod calcareous CL - MS and
 MS - chlorite schist. Locally
 w/ abundant qtz veins
 Often very rusty weather
 esp. near qtz veins

STATION #		11580		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	
<u>2</u>	140	20	NE				

- recrystallized, f. granitic
 dk green v. strongly crenulated
 (S2) serpentinite

~~XXXXXX~~

FUEL-UP

STATION #		11581		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S _o	strike	dip	direct	azimuth down plunge		plunge	
	165	70	W				

- med grained pale gray
 weath pale to med
 gray banded marble
 * cordant sample

STATION #		11582		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	170	10	EE				

- v. rusty weath cs.
 grained Kspn ~~gr~~ auger
 greiss.

- well foliated

- auger are aligned (generally
 not always) || foliation.

- auger are v. large (to 7 cm)
 and subhedral - v. abundant
 to 30% of rock by volume
 locally.

- not sure why the O/C is so
 rusty - small amt of F gr. PY
 on fractures.

STATION #		11583		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	130	65	NE				

- med gray to rusty brn
weath & auger appears as
chance - auger are small,
less abundant

- v. weath foliated.

STATION #		11585		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
		102		52 S		L	
						azimuth down plunge	
						plunge	

-cs grained relatively chlorite
 # of augen grains

-augen to 6 cm dia

hard to get good sample

STATION #		11586		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct	L	azimuth down plunge		plunge
	025	25	SE				

rusty weath. cs. gr. auger
gneiss — mafics are $< 2\%$

- well foliated

* in creek bottom @ 1st
drop-off pt. rocks were
shattered — fault Xia — looked
like may have originally been
auger gneiss — compn is
abrupt

STATION #		11587		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	azimuth down		plunge	
	085	12	NW				

- is grained augen gneiss
- bt = ~ 5% of rock.
- musc > bt.

STATION #		11588		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	azimuth down plunge		plunge	
	092	26	S				

- co. grained Kopen - plg.
gtz - musc augen gneiss

- no mafics

- no min. streaking lineation
dev.

* ZIRCONS

END OF DAY

S.E. of Mouth Cks July 1/81

STATION #		11589		NTS	
N				E	
lithology			color		
unit			S	strike	dip
					direct.
S	strike	dip	direct	compass	plunge
' ~ hwy				060	02

"3" syn

O/C is mainly orange-gneiss,
but have some bt-fsp and
bt-clonite schist as thin
interbeds w/ it
- "M" region of fold

Traverse this mess!

"mixed gneiss"

STATION #		11590		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
							direct.
S	strike	dip	direct.	L	azimuth	down	plunge
1	050	29	SE		085		11

"mixed gneiss"

- bt-chlorite schist, minor calc-schists and kyanite gneiss, as well as foliated, phanoclastic fine grained gneiss
- htl chlorite (?) (for garnets) - not altered.

traverse



STATION #		11591		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down plunge		plunge	
	083	39	N	080		00	

- all well extracted (Kyan ore) orthogneiss
- bt (part. chloritized) = musc
mica = 10% of rock.
- augen are rel small,
≤ 1 cm dia

* ZIRCONS

STATION #		11592		NTS			
N				E			
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
		060		50		NW	
						azimuth down plunge	
						082	
						03	

- is ^{large} grained ^{quartz} granitic
crystals average grains
K-feld average to 1.5 cm dia.
- locally have mafic (bt)
core in bands // foliation
to 2 cm thick.
- locally also have foliation
layers to 1 m thick of
is. BTU schist

STATION #

11593

NTS

N

E

lithology

color

unit

S

strike

dip

direct.

S

strike

dip

direct. L

azimuth

down

plunge

1

060

34

NW

255

02

pale to med green and
 green brown highly
 granatiferous MS = CL
 schist and pale green
 feldspathic gneiss (mainly
 MS CL schist)

- S. of drop off - co. g. rained
 BT-CL-Fspar
 schist similar to that
 seen in the auger
 green at last Δ

STATION #		11571		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
				azimuth down		plunge	

- All S/C - mobile field

- as @ Δ 11572 - med gr.
granitic augen gneiss w/
lt schist lenses & layers
(which are only present in
float here, but prob. are
not too abundant).

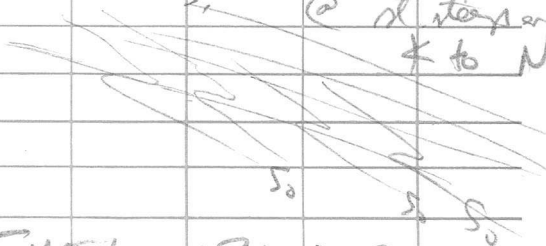
~~* zircons~~

STATION #		11595		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		estimate down plunge	
						plunge	

- no time to get to in place,
 ran rotated O/C

- sl calcareous CL $\rightarrow$ MS-Pg
 schists, rusty for weath
 musc - CL schist, and
 siliceous musc phyllite.

* note - have minor folds
 w/ S vergence forcing
 NW - So some layering dips
 @ sl steepen
 * to N



XXX FUEL UP XXXXX

STATION #		11596		NTS	
		N		E	
lithology				color	
unit		S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge
	000	10	w		262
					plunge 00

med to co. gr. granitic
average grain w/ chloritoid
lst on partings (MS 7BT)

- has a narrow zone ($< 2\text{m}$ thick) w/ chlorite & chlorite-bt segregations forming bands to 20 cm thick -
These bands & the interbedded augen gneiss are well folded

STATION #		11597		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge
1	090	10	S				

- mainly / hyper argon antho-
greiss w/ minor (<5%)
Schafum bands to 1 in thick
of LA schist and schist
schist

* Note this is not appropriate
as a type section
for AC-DC greiss !!

* Zircon

STATION #		11598		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
160		10		W			
				azimuth down		plunge	

- ~~matrix~~

- granitoid gneiss

- @ Bastin part orthogneiss
(good relict igneous texture)
but parts look like the
st-bearing gneiss - typical
mass of the AC-DC gneiss
unit

* Furcans

STATION #		11599		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
S		strike	dip	direct	L	azimuth down plunge	plunge
115		105	21	N			

- up into "Striped Unit"

- consists primarily (90%) of thinly
layered pale green weath,
calcareous, med to dk green
metabasals w/ interbeds to
2m thick of carbonaceous
phyllitic gts and "spotted"
biotitic feldspathic gts

STATION #		11600		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
1	035	12	NE				

- poorly to v. well foliated
metabasic section

- biotite, chlorite and
schist and chlorite-bt-
feldspar schist

"metabasic Passage"

STATION #		11601		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S ₁ parallel S ₀	strike	dip	direct	azimuth down plunge		plunge	
	122	24	NE striking	305		08	

- rusty weath carbonaceous phyllite
and phyllitic gneiss
w/ chlorite and chlorite-biotite
schist partings

STATION # 4602				NTS	
N				E	
lithology				color	
unit				S	
				2	
				strike	dip
				025	75
				direct. NW	
S ₀	strike	dip	direct.	L	azimuth down plunge
15	015	03	W	2	220
					plunge
					00

- Kspar augen gneiss -
pale gray to med gray green
due to chlorite in schistose
partings

- v well composed layered -
1st schist (which makes
up ~10% of unit)
is segregated into bands < 1 m
thick (usually < 0.5 m)
- and locally has Kspar augen
growing within it

- almost certainly
in the grains

STATION #		11603		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	strike	dip	direct
150	070	07	NW		163	07	

- micaceous (bt & musk)
 f. quartzite and calcareous
 gt etc

"Striped Unit" prob.

STATION#		11604		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	012	13	E		175		03

sl. calc. dk green to dk
brn. biotite CL-schist

w/ mica bt - glz. fgs
schist

metabasite unit -

(note - lost the sample
of ~~the~~ CL-schist
windy dc!)

XXXXFUEL - WP XXXXXX

STATION #		11605		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
					080	66	N
S	strike	dip	direct	L	plunge down		plunge
	066	27	NW	S/S	260		09

v. well foliated, pale green
weath., pale to med grey
green Kyan augen gneiss

- augen to 1 cm dia in a
fine grained gte. fgnr -
bt ± wbl matrix

* doubly foliated - neither
one is dominant.

STATION #		11606		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
1		080		45		N	
		ezimuth down plunge		075		02	

- med grained g Kspen augen gneiss
- augen to 2 cm dia
- ~~to~~ ~ 5-10% hbl (+bt) in this rock - overall country is a hbl-bt granodiorite
- is pale green on weathered surface

STATION #		11607		NTS	
lithology		N		color	
unit		S		strike dip dir	
S	strike	dip	direct.	L	azimuth down plunge
	891	19	N		

- fine to med grained d. chloritic feldspathic gneiss
- has a narrow band of v. sheared lbl ~~g~~ Kysan augen gneiss as above - prob. whole o/c is augen gneiss in diff. degrees of cataclasis

STATION #		11608		NTS	
		N		E	
lithology			color		
unit			S	strike	dip
S	strike	dip	direct.	L	azimuth down plunge
	104	14	N		

as in D 11607 but w/
 The Kypar auger extremely
 flattened (sample taken
 is not representative, not
 enough time to get good one.)

STATION #		11609		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	

S/C only

pale gray to green & to
rusty in weather intercalaneous
qtzite & feldspathic
qtzite

- don't think this is anywhere
near the center of the apog
gneiss of last few stops,
so prob is not a catadex
sequence

STATION #		11610		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
							direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- rubble only

- steamed Kyanogen
gneiss - same
comp as 11606

quick lit. I.D.

STATION #		161		NTS	
		N		E	
lithology		color			
unit		S	strike	dip	direct.
S ₁	strike	dip	direct.	L	azimuth down plunge
1.5' calc. layer	072	53	NW	min strike	069
					02

L₂ 062 / 00
(crin. w. m. b. l.)

- calcareous CL-fspar ± musc
schist (metabasite) and
carbonaceous siliceous phyllite.

STATION#		11612		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct	
S _o		strike		dip		direct		L		azimuth down plunge	
115		109		10		N					

of quick ID

- d rusty weath, d pyritic
micaceous (mus.) feldspathic
qtzite & fine gneiss.

(immed underlies the felsic
metavolcs - top of striped unit)

STATION #		11613		NTS			
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
				L		azimuth down plunge	
						plunge	

S/C of ~ 50/50 Kapan-
 hbl and/or gneiss as all
 the last few stages S,
 cs. grained st. ~~also~~
 Schist.

STATION #		11614		NTS	
		N		E	
lithology			color		
unit			S	strike	dip
S	strike	dip	direct.	azimuth down plunge	
	062	36	NW	plunge	

thinly bedded (color bedded)
 pale green to med grey
 green to dk green, st.
 to med calcareous CL > MS
 schist (metabasite) w/
 v. minor carbonaceous
 siliceous phyllite

STATION #		11615		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S,	strike	dip	Direct	azimuth	down	plunge	plunge
115	078	37	NW	striking	068		06

- muscovite friable
grained white to pale
gray feldspathic gneiss
w/ low interbeds to 5 cm
thick of red green sandy(?)
marble.

- further up slope, have red
green chlorite - muscovite
& calc siliceous phyllite

XXXXX FUEL - UPXXXXX

STATION #		11616		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		strike		dip		direct.	
azimuth down plunge		plunge					

- large slumped blocks
of tan to sl. rusty brown
weather micaceous (base > top)
fine grained gneiss
- garnetiferous

STATION #		11617		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S, ?	strike	dip	direct	L	azimuth down plunge		plunge
11617 log 11617	066	13	NW				

- opuntiferous pale gray
massive (MS → BT)
feldspathic granite

- like stuff we've assigned
to AC-BE gneiss

STATION #		11618		NTS	
		N		E	
lithology			color		
unit			S		strike
					dip
					direct.
S	strike	dip	direct.	L	azimuth down plunge
					plunge

med rusty tan to med
gray weath micaceous
st. calcareous feldspathic
qtzite - good congn
layering

* ("Ac - Dc")

- lots of carbonaceous siliceous
phyllites coming downhill
in float from up the ridge

STATION #		11619		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge
	035	39	SE				

- knobs by (knotted) MS-CL dolomite schist - locally biotitic
- rare interbeds to 30 cm thick of med grained grey marble
- knobs are caused by large (to 1 cm) porphyroblasts of (cordierite?) square XO section, look like fegs

STATION #		11620		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge		plunge

- rotated blocks of micaceous
fine to med grained feldspathic
glate and gtz feldspar
gneiss.

AC-DC.

- small granitoid congn
? AC-DC ?

STATION #		11621		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	azimuth down		plunge	
	070	20	NW	045		07	

AC-DC micaceous & feldspathic
 grites & gtzites underlain
 in O/K by dk green
 fine to med grained variably
 schistose C-AC Tmshite - bt -
 from schist / gneiss (metabole)

Note one of the hard samples
 from this Δ is
 noticeably heavier -
 ultramafic instead of
 just metabasite ??

STATION #		11622		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L		azimuth down plunge	
						plunge	

- med to dk brn weath
chlorite. bt schist (sl.
calcareous) w/ narrow
interbeds to (20 cm)
of micaceous feldspathic
gltite.

- main foliation is ax P
to $t_{1/2}$ isoclinal recumbent
minor folds.

- schistosity is locally defined
by a weak later
vermulation (S₂)

- all sl. slumped, no
measurement.

STATION #		11623		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down		plunge	
'	032	32	NW	plunge			

rusty weath micaceous
fine to med grained Rd Spathic
glaz

"AC-DC"

XXX END OF
DAY XXXX

Fyke Lake

July 2/81

STATION #		11624		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down	plunge	plunge
1	099	22	N	min shreddy	280		02

strongly sheared w/1
granodiorite

STATION #		11625		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S _g		strike		dip		direct.	
1/51		030		35		NW	
				azimuth down plunge		plunge	
				295		35	

- thinly interbedded (5-30cm)
fine to med grained g⁺to f⁺ feldspathic
g⁺to w/ micaceous partings

- locally sl. carbonaceous
(dk. grey)

STATION #		11626		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S,		strike		dip		direct. L	
		025		36		NW	
				azimuth down plunge		plunge	

large O/C on creek - top in
in top, was only able to get
to upper (struct) part.)

- 161 & 162 auger (to 3 mm)
auger grains interlayered
with ultra-siliceous sl. chert
musc. st. - f. par. shist. or
more sheared equiv. of the
auger grains.

- stuff struct. below this looks
from a distance like it
could be in part meta
sedgs - can't get to tho!

STATION #		11627		NTS	
lithology		N		E	
unit		S		color	
S,		strike		dip	
1/2 comp / 107		27		direct	
L,		azimuth down plunge		plunge	
		315		15	

- spectacular section exposed in creek
- thinly layered ($< 10\text{cm}$) feldspathic gneiss, gneiss, micaceous gneiss from pale green to rusty brown weath.
- locally chloritic and musc + bt partings
- have a red bedded ($< 0.5\text{m}$) or chloritic gneiss - feldspar gneiss layer - pale to red green weath downstream underlain by more of the gneiss.

STATION #		11628		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S ₀	strike	dip	direct	azimuth down		plunge	
1/5	132	90					

- thinly layered (1-2 cm)
 rusty with v. micaceous
 BT- MS-qtz schist and
 v. micaceous gneiss

STATION #		11625		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	plunge		plunge	
	172	75 E					
	150	144 NE					

tectonic fabric
 in serp.
 layering of foliation
 in metaseds

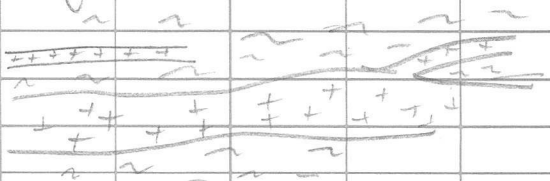
— highly sheared & greenschist
 wealth serpentine (w/ tectonic
 fabric as given)

— mined to E (on small ridge)
 have more shallowly dipping
 dk grey to white wealth, thin-
 bedded micaceous gneiss &
 felspathic gneiss — lots of
 carbonaceous gneiss & ~~and~~
 siliceous phyllite in flint.
 This looks like the meta sed.
 packing as @ last 3 stops.

XXXX FUEL-UP XXXX

STATION #		11630		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge				plunge	

massive to fishscale, completely
 superheated UMF
 w/ a ~~large~~ tectonic body
 of musc. qtz & diorite 3-4 m
 thick (~ horizontal) - med
 grained, ca 19p mafics
 which is itself foliated & encloses
 slices of the UMF



* ZIRCONS

STATION #		11631		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	estimated down stage		stage
tectonite	020	06	E				

- strongly to moderately foliated
~~massive~~ blocky with massive
serpentine and minor
pale to mid green talc - chlorite -
actinolite schist - actinolite
needles to 3 cm long.
- foliation is rather irregular

STATION #		11632		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S		strike	dip	direct	L	azimuth down plunge	plunge
1		155	12	NE		355	05

- med grained garnetiferous
 bt > musc gtz ($\pm$ Feldspar)
 schist

- lamination is 11 fold axis of
 v. small (scale of a few
 cm) F₁ minor folds w/ both
 S & Z vergences *

* have a large ($\lambda = 2m$)
 minor  Fold in sl.
 rotated block - axis 11 that
 given above

- also have highly calcareous
 grites here

STATION #		11633		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct	strike	dip

- massive, randomly fractured,
 locally sl. sheared (a
 random orientation) serpentinized
 hornblende - med to co.
 & rounded. Olivines are
 completely serp, opx is
 70% serp.

STATION #		11634		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	sl. with down plunge		plunge
	142	08	SW				

{ 116/20 SW (100 m down stream)
min. striking @ 145/14

start traverse down
creek N of Money Kippe

- start in shaded sup (11634a)
then goe down into ~~more~~ more
massive amphibolite (b)
then into massive to sl. shaded
mass. gtz. charact as @
△ 11630, then immed. underneath
see thinly layered, rusty weath
sl. mylonitic mass. gtz. f. per
phyllite (false gtz. ad.)
thendown into rusty weath, carbon-
aceous f. gtz. then
(over)

down into far to west him
wealth f. gy. micaceous
gtzites

- Note the musc gtz diorite
cross-cuts both
campy layering and foliation
in the meta sets under
the WMF

The "fine metadiorite(?)" and the
carb gtzites are virtually
identical to that above the
Tuchuia R. Pluton.

STATION #		11635		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	extremity down dip(s)		piece

S/c of footwall of UMF
 sheet — fine to medium weath
 fine to med grained thin
 layered, sl micaceous
 st etc. (as taken off, see
 that is dipping ~ 30° straight
 down slope — ridge) in
 foliation contact w/ cs. grains
 almost completely swap UMF

STATION #		11636		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down plunge		plunge

- well foliated, dk green
 serpentinite, metabasites
 (diag-chlorite act - $\pm$ diine
 schist), Serp-chlorite-act-
 schist, cut by rare foliated
 dykes & sills of co. grained
 mass Qtz masy. diorite or
 granodiorite (as @
 @ 11634 & @ 11630.

These dykes are post thrusting
 probably
 K-age.

- rare are too magnetic
 can't measure strikes
 well.

STATION #		11637		NTS			
		N				E	
lithology				color			
unit				S _{1/2}	strike	dip	direct.
					120	18	SW
S _{1/2}	strike	dip	direct.	L	azimuth down plunge	plunge	
	150	11	SW		293	05	

- inter-layered dk green cl
schists (metabasites) and
rusty weath carbonaceous
oil phyllites.

- 120/18 SW foliation is weakly
dev, the other fol is
the main one.

- the direction given is ~~rough~~
fold axis for small rootless
folds for which the 150/11
foliation is ax R

STATION #		11638		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direction
S	strike	dip	direction	example, 40°N, 30°E		strike	

- foliiform band of brn weath.
d. foliated highly altered, calcareous
(!!) Kpor - hbl porphyry - is
~ 5m thick - foliation is as a
fainting only and seems to
show narrow chill margins

- intrudes highly sheared serpent
serp - chlorite schist above
E, below

STATION #		11639		NTS					
		N						E	
lithology				color					
unit				S		strike		dip	
S		strike		dip		direct		L	
		098		15		N			
				estimate down		swings		phase	

- well foliated CL-schist
 Q-musc (or talc?) schist
 5 heterogeneous CL-schist

metabasite or meta-UMF?
 can't be sure ---

STATION #		11640		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge

- same unit as above - mainly
actinolite schist, act-serp
schist and talc-chlorite-
act. schist

- this is almost certainly at
least in part NME - may
have metabasite (gabbros,
basalts, etc), and well
as well, this.

STATION #				1164)		NTS			
				N				E	
lithology					color				
unit					S		strike		dip
S		strike		dip	direct.	L		azimuth down plunge	
								plunge	

- crudely layered (?) meta-
gabbro and serpentinitized
ol-cpx gneiss? - maybe
layered sequence but would
need more detailed work

STATION #		11642		NTS			
				N	E		
lithology				color			
unit				S	✓ strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

massive altered is gneiss
epxente, of gpxente and
massive serpentinite.

STATION #		11643		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	
	015	22	E	125		20	

— thinly layered & grained
mod. brn weath. micaceous
(musc) gneiss

(upper Stages unit)

STATION #		11644		NTS			
lithology				color			
unit				S		strike dip direct.	
S.		strike		dip		direct.	
		078		32		SE	
				azimuth down plunge		plunge	

- thickly layered (scale ≤ 1 cm)
carbonaceous gneiss w/
phyllitic partings and Bt schist

- underlain by med green
CL-MS S & MS-CL schist
(metabasite) w/ narrow pale
green gneiss & minor calc-
silicate

XXX END OF DAY XXX

Singha Station on N river just N of

STATION#		11645		NTS		Fire Edge	
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
		175		23		E	
				azimuth down plunge		plunge	

Carbonaceous musc. gtz

phyllite & f.g. schists

locally w/ biotite partings

- rusty brown weath

July 6/82

4 min streaking 125/16

- Note main foliation is a crenulation (Sr)

in most of ϕ , in other parts
($S_0 \cup S_1$) defined by comp. bying
is equally dev. to S_2

- farther up o/k, have interbeds
of bt.-folds, pathos of etc and rare
red to dk grey med grained fetid
marble - bands on scale of
1 m.

* Gradient Sample

STATION #		11642		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S, ?	strike	dip	direct.	L	azimuth down plunge		plunge
gray tuff	152	48	NE				

E 132/69 NE (100m Wd
12 measure)

- Thinly layered dk gray, gray to sl.
rusty brown weath. fine grained
phyllitic gtzite w/ minor carbonaceous
siliceous phyllite. — no metabasite
in O/C, or flat to this pt.
along the ridge (heading W)
- locally have interbeds of feldspathic
gtzite w/ lt. cbs in partings
0 to 2m thick
- as traverse west ~ 100 m, get into
more blocky weath. "zebra stripes"
(dk gray & white), sl phyllitic
f. gr gtzite

STATION #		11648		NTS			
N				E			
lithology				color			
unit				S ₁	strike	dip	direct.
				1150	155	68	NE
				azimuth down plunge			plunge
S	strike	dip	direct.	L2			
2	155	49	NW	S ₁ /S ₂ 1150 075	142	10	

L₃ - 075/55

- doubly foliated, thinly layered (scaled 1 → 10 m) cream to red gray, non-carbonaceous gtxite & muscovite gtxite, fine grained
- locally w/ interlayers (1150) < 2 m thick of very rusty weath gtx + musc + fsp schist and muscovite gtxite w/ 1 → 3% disseminated pyrite.
- S vergence on all F₂ lithons
- have a v. poorly dev. cren. umbilic locally on S₂ surfaces which is prob. an F₃ cren.

STATION #		1649		NTS			
N				E			
lithology				color			
unit				So		strike	
				11 S,		138	
						70	
						direct. NE	
S		strike		dip		azimuth down	
2		130		46		plunge	
				L ₁		plunge	
				(min str. "fold axis")		132	
						03	

L₂ 125/14

- as above - thinly layered (1 → 5 mm)
sl. phyllitic gneiss - pale grey to
pale brown to sl. greenish grey,
non calcareous - locally w/
rusty spots due to py concentrations
- contains a foliated ^(11 foli.) band ~ 12 m
thick of thinly layered (scale
of ≤ 10 mm) very rusty yellow to
orange brown, sl. phyllitic
feldspathic gneiss w/ v. finely
disseminated pyrite. This band
may be a felsic metabasite *
- No relief gtz or Fgr eyes at all
tho.

* collect for Zircons?

(over)

Note $S_0 \parallel S_1$ is here deformed
into a large F₂ S-fold
w/ $\lambda = 30m$ - this
gives several local repeats
of the rusty weath unit

- also interbeds of gte-musc-
bt schists - $\frac{1}{2}$ as grained
w/ bt in elongate strips @
random orientation - all
re X foliated $\parallel S_2$

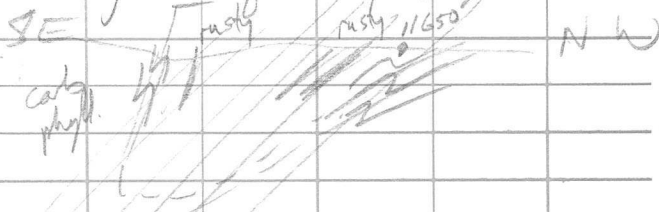
Looks like bt is after an
earlier mafic phenocryst (hbl?)
or pyroxenoblasts

* "b white" may be
salpionelone

STATION #		11650		NTS			
N				E			
lithology				color			
unit				S ₁	strike	dip	direct
				1150	023	36	SE
S ₂	strike	dip	direct	L ₂	azimuth down plunge	plunge	
	000	56	E		128	43	

- interlayered biotite brown to rusty
weath gtzite, feldspathic gtzite,
and minor brown weath bt & clst.
schist.

Note - the structures show that this
is on the NW limb of an F₂ fold
w/ the gtzite & feldspathic
gtzites in the core surrounded
by carb gtzites and phyllites



- This core would also exactly coincide
w/ a large aeromag high - nothing magnetic
too.

Note definitely have a foliation
deformed around F_2 hinges,
so is not F_1 fold



STATION #		11651		NTS		1056	
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	
2	170	41	E	2	120	30	

— thinly layered pale gray to pale gray-green micaceous gtrites (just below contact w/ carbonaceous unit.)

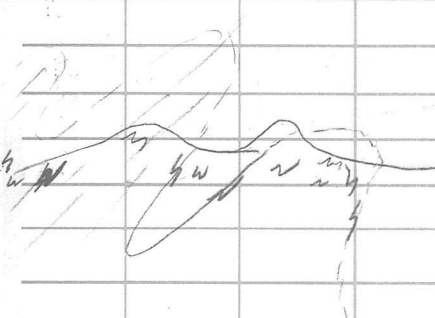
— S vergence in minor F₃ folds

NE

11651

SW

~~carb / gtrite / carb / gtrite~~



STATION #		11652		NTS			
lithology				N		E	
unit				color			
S		strike		dip		direct.	
2		160		40		E	
S		strike		dip		direct.	
1		175		32		E	
L		azimuth down		plunge		plunge	

- thinly layered micaceous gneiss
med thin to rusty by weath
- locally w/ narrow inter bands of
dk brn ls schist
 - lower limb of F_2 fold

STATION #		11653		NTS			
lithology				color		E	
unit				S ₀		strike	
				"S ₁		dip	
S		strike		dip		direct.	
2		120		42		NE	
L				azimuth down		plunge	

L₃ 083/42

(weakly dev. over?)

Thinly layered magnesian gneiss &
feldspathic gneiss w/ minor layers of
musc + qtz + actinolite + biotite schist

- upper limb of F₂ fold; S₁ steeper
than S₂ & vergence on lithology &
minor fold axes.

- immediately to E of Δ, have contact
w/ carbonaceous phyllites & biotitic
carbonaceous gneiss.

STATION #		11654		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down	plunge	
2	129	70	NE	2	131	22	

L. core wrinkles

- striped dk grey - white (gr.
d. plagioclase gneiss)

S₂ sub 11 S₂/S₀

(Δ is just ~~W~~ contact w/
metabasite.)

STATION #		11655		NTS		105G	
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
11/20	152	55	NE				

- pale to med green metabasite
- CL- ACTINOLITE ± plagioclase, locally calcareous

* Sample for geochem

Sz not low here
(or v. weakly at least)

STATION #		11656		NTS			
				N		E	
lithology				color			
unit				S ₂		strike	dip
						152	45
						NE	
S	strike	dip	direct.	L	azimuth down plunge		plunge
51	125	55	SE	2	125		15

- mainly med green act-chl metabasite w/ minor (as in core) dk gray carb siliceous phyllite and white to cream thickly layered f.g. g. slate

- still all Sverg in F₂ minor folds

- locally have a narrow (<2m) rusty iron weath bands.

STATION #		11657		NTS			
		N					
lithology				color			
unit				S ₂		strike	dip
						155	29 NE
S	strike	dip	direct.	L	az	math down	plunge
1/50	135	60	NE	2	124		25

calcareous sl. pyritic metabasite.

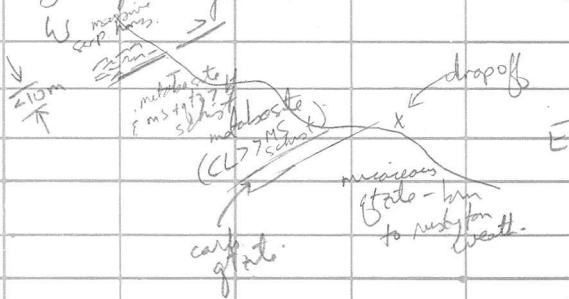
STATION #		11658		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
2		178		32		NE	
				seamuth down plunge		plunge	

bedding striped dk. grey
 carbonaceous ~~ph~~ micaceous
 of sites

July 8	traverse a ridge just w. of
North	River

STATION #		11653		NTS	
lithology		N		E	
unit		S		strike dip direct.	
S	strike	dip	direct	azimuth down plunge	
	030	39	NW		

- as go up ridge NW: NW



start out in the sl. rusty bn
gts, micaceous gts and
feldspathic gts w/ v. mic
interbeds of sl. carbonaceous
gts; up into Q7 MS + Q7 schist
(metasilt, med gr, well foliated
sl. calcareous) w/ micaceous
gts interbeds; then up into
(over)

Foliated serpentinite - fish scale
foliation, generally parallel to
measured fabric in the
underlying package. Foliated part
is < 10 m thick, then go
up into massive dk green to
dun with serpentized harzburgite
w/ local zones of shear surfaces
oriented in the same as the
measured fabric. Note: There is some
co-grained actinolite ($\pm$ Pyrite)
rock - (non-foliated) as boulders
just below the contact w/ the
UMT, but the UMT themselves
have not re-foliated to anything
but serps.

*Note: Sample of plagioclase-amphibolite
(meta-gabbro?) collected from
w/in 2m of base of UMT
sheet - occurs as diffuse band
in the foliated part.

STATION #		1/660		NTS	
lithology		N			
unit?		S		color	
S	strike	dip	direct	L	strike
					dip
					direct
					azimuth down
					plunge
					plunge

- massive to sl. foliated serp. hornblende

- ant. gl measurement ∞ rock
to magnetic?

- over lain by strongly foliated
ACT-Talc - cl schist, Cl-ACT
schist & foliated metabasite.
The Cl-ACT schist is impossible
to dist. from metabasite
package w/in Klundike Schist.

STATION #		11662		NTS	
lithology		N		E	
unit		S		strike dip direct	
S?	strike	dip	direct	estimate down plunge	plunge
11 ft long	135	24 SW	L min streak	065	23

- pale to med green calcareous CL-MB schist (underlying package) v. well foliated.

- also interbedded (on scale of 1-2 m) are tan weath. thinly bedded med. gr. gneiss & micaceous gneiss.

- mined below on O/C of dm. with massive UMF.

STATION #		11663		NTS	
lithology		N		color	
unit		S		strike	
dip		direct.		dip	
S, ?		strikes		dip	
11 camp		160		31	
large		min		streak	
		260		plunge	
		30		plunge	

right in contact @ base of UMF
 - metabasites as last Δ
 (calcareous med. grained
 BT- plagi schist)

STATION #		11667		NTS	
Lithology		N		E	
unit		S		strike dip direct.	
S		strike		dip direct.	
137		15 NE		estimates down plunge	
137		15 NE		plunge	

as above — lot - chloride - plagioclase
 schist interbedded w/ feldspathic
 med. gr. gneiss in a scale
 of 1-2 m

- also narrow (< 20 cm) interbeds
 of carbonaceous micaceous
 gneiss

STATION #		1165		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S. ? (11 cap days)		strike		dip		direct	
		125		14		NE	
				L min sheet		azimuth down plunge	
						356 12	

ed. creans meta basite or shale
(just below URE shot)

STATION #		1166		NTS	
N				E	
lithology		color			
unit		S		strike	dip
				direct	
S, ? (11 layers) (lgn)	strike	dip	direct	azimuth down plunge	
	155	45	SW	plunge	

- basal contact (yet again!)
of UMF sheet (or slds, or
body, or whatever....)
- f. banded gr. horn with musc. bt-
gtz ($\pm$ fsp?) schist & carbonaceous
of granitic siliceous schist.

654

N

3

libholcs

color

unlike

5

20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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dia

direct.

$S_1?$

總發行所

412

Direct.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

exit with down plunge

[illegible]

(11.4) 062

16 Nov

thinly layered sl. calc.

med. sun & blue weath

maisons d'été / new house

~~acid~~ carb. citrate

inter bands

area around N. Lakes

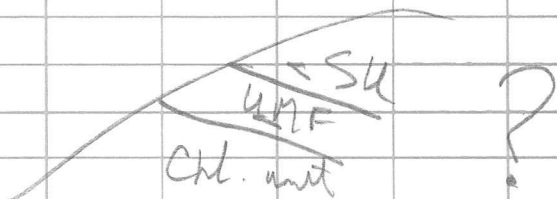
July 12/81

STATION #		11668		NTS		1056	
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- large tabular (?) body of dur
with partly to completely
imp UMF

- overlain (only foot looked at)
by biotite gneiss and
bt. gtz. fgn schist (Su)

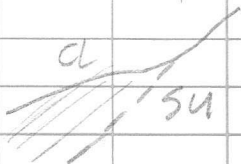
- underlain by biotite melanite
- CL-actinolite schists plus
actinolite - bt. fgn (+ gtz)
Schist



STATION #		11669		NTS	
lithology		N		E	
unit		S		strike dip direct.	
S,	strike	dip	direct	azimuth down plunge	
11669	154	34	NE	plunge	

- dk green chl - act metabasites w/
thin interbeds of biotite gneiss
& feldspathic gneiss - some
of the metabasite has lot of flakes
as partings. Also some rare
biotite - gneiss - feldspar schist
(as gneiss) -

- as go up slope come to sharp
break in slope - above this
have mainly SU (w/ minor
green chloritic gneiss) coming
down in fault - foliation are



? stop enough
that SU
could underlie
the chloritic
unit.

STATION #		11/670		NTS	
		N		E	
lithology				color	
unit		S		strike	dip
					direct.
S	strikes,	dip	direct.	azimuth down	
11/670	~ 1/2 way		L	plunge	plunge

- start traverse down ridge

- start in pool #54
calc. silicates - thinly layered
white, med green, i med purplish
brown w/ micaceous gtlite
interbands

- go down section into
cs gneiss bt $\pm$ fsp $\pm$ gtl
schist then start covered
interval (< 5 m of section)
then into rusty weath v. fine
grained thinly layered feldspathic
gtite (false meta v. s. ??)
underlain by good layered
dk green CL - actinolite $\pm$ gtl and
fsp metabasite

STATION #		11671		NTS	
lithology		N		E	
unit		S		strike dip direct.	
SL	strikes	dip	direct	azimuth down plunge	
11 cap layers	130	13	NE	plunge	

- mainly inter layered co. grained
biotite schist bt. fgsr schist,
~~the~~ muscovite marble (rare)
and muscovite rusty weath
fzite and feldspathic gte

- also rare int bands of dk
green-brown biotite actinolite
chlorite schist

— looks like transition between
chloritic unit & SU

STATION #		11672		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
strike		dip		direct	
L		azimuth down		plunge	
plunge		plunge		plunge	

→ S. 1150 - dipping $\sim 10^\circ$ SW - no meas taken.

- interbedded as gneiss & schist
 bt. fsp. schist & foliiform
 sl. foliated fine grained, white
 weath. alaskite sills

- as go down ridge to SSW, get
 into dk open actinolite
 ± channel actinolite schist

STATION #		11673		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
strike		dip		direct	
azimuth down		plunge		plunge	

- interlayered micaceous f. gneiss
qtz and bst ($\pm$ musc) - cfr.
f. schist

SU

- also some interlayered white
to weath. foliated f. gneiss
as last Δ as well
as (prob.) micaceous qtz

SU as above UMF @
 Δ 11668

STATION #		11675		NTS	
lithology		N		E	
unit		S		strike dip direct	
S		strike dip direct		L	
				azimuth down plunge	
				plunge	

- large rubble pile of meta UMF
- all +ols schist (same of it is 95% +ols!) w/ sand relict px to 1cm dia

STATION #		11676		NTS	
lithology		N		E	
unit		S		strike dip direct	
S	strike	dip	direct	azimuth down plunge	plunge

- st. rusty weath. micaceous & garnetiferous gneiss & gabbro
 gneiss mic. calc. schists &
 thin med grained marble

SU but must be just
 below contact 0° have
 actinolite metabasite &
 carb. gneiss that coming
 down from above Δ

XX FUEL X X

STATION #		11677		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
11/20/77		strike		dip	
11/20/77		dip		direct	
11/20/77		azimuth down		plunge	
11/20/77		plunge		plunge	

- 1st. more glt. & gneiss schists w/
 more chloritic versions of the same
 interlayered - abundant Ch. schist
 in flat coming down from up
 slope

STATION #		11678		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
11 Comp Layer ~ horiz		dip		direct	
azimuth down plunge		plunge			

- white to med green chlorite
 & muscovitic gtales - f. grained

prob. part of chlorite package

XXX END-OF-D BY XX

STATION #		11679		NTS	
N					
lithology				color	
unit				S	strike
					dip
S	strike	dip	direct.	L	azimuth down plunge

- massive med grained equigranular
open to 2. brown weath
lbt granodiorite (S.R. sub)
w/o any of the more mafic
inclusions seen elsewhere

- as we go downhill to SW get into
cs-grained lbt granite that has
almost totally disintegrated -
seems to locally have pinkish
weath. K-feld & epidote
veining → prob' some affinities
to RLA pluton

STATION #		11680		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- contact between fine to med
grained pale gray weath
flasser (?) marble overlain
by S.R. smile hbl / granodiorite

- plutonics here are fairly
extensively fractured &
strongly chloritized (dk green,
fine grained) near their
lower contact (lower 1 → 2m)
but not megacrysts - more like
fault xias

- as go up get into normal
granite variety S.R. Rox

- Concordant Sample

STATION #		17681		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
no		fine		!!!		azimuth down plunge plunge	

- v. rusty weath well bleached
 siliceous impure - felsic
 for the most part - could be
 felsic metavolcs, but locally
 see med grey green clots +
 appear to be altered mafic
 grains - may be a v. strongly
 sheared & porphyritic ($\leq 2\%$
 diagen. py. version of S.R.
 type of plutonic rock

STATION #		11682		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	005	25	W		230	05	

- start start traverse near last @
and head W towards CO3
o/c.

- start out in same rock type as
last @ but have more
interbeds of v. thin, sh. med grey sl. carbonaceous phyllite

- ~~as~~ just beneath this have
ox like @ 11681 but have same
w/ very good retic. green
texture - looks like S.R. suite
type compn.

- then go up section through
a bunch of fine grained
white to med grey slightly to
med. carbonaceous f. grained
g. ste and silt phyllite

STATION #		11683		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

very strongly epidotized (40-
60% by vol) & fine to med
grained "rock" — could
be: ① fault X is from med
grained plutonic rock
such as S.R. suite, & locally
do see a relict med grained
- equigranular texture
preserved:

② strongly altered ARG
basalt ± diabase — have
seen some ARG elsewhere
that doesn't look too dissimilar

③ several other more charitable
possibilities

— down dip to NE get abundant
that is few O/C of white to
pale to med grey sl. carb sil over

phyllites & f. q. g. g. g.
(as in gut @ last Δ) that
dip under the epidotized
stuff — dip is consistent
w/ this Δ being on strike
w/ the last Δ

STATION #		1168 4		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S,	strikes	dip	direct.	L	azimuth down plunge		plunge
?	054	38	N		050		14

- sl. rusty weath. carbonaceous siliceous phyllites
- Note have 2 sub 11 foliations, equally well dev., lineation given is intersection of them
- not sure which is S₁, which S₂
- no con dev. that is visible

(*) whole ridge (for 100m traverse SW) is rusty carb. phyllite w/ minor interbeds of rusty gtzite pebble cglm & v. strongly foliated tho' - have either clasts or narrow interbeds of carb phyllite in the coarse beds.

STATION #		11685		NTS	
N				E	
lithology			color		
unit			S ₁ comp	strike 045	dip 39
			direct. NW		
S ₁ comp	strike 082	dip 06	direct. N	L	
				azimuth down plunge	plunge

(after move to north)

- pale to dk green v. well foliated sl. to mod. calcareous Cl
- ~~phyllite~~ phyllite & schist
- overlain by thickly layered (bedded or flaser? East tall) fine to med grained pale grey marble.

(after move to sl lower in section)

- get interlayered sl chloritic pale green gt & qtz (good clean to sl. bluish gt & qtz); rusty sl. pyritic slightly micaceous f. gr. quartz and gt & musc schists. These all underlie the chlorite schist unit.

STATION #		11686		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S ₁ ?		strike		dip		direct.	
		100		29		N	
		L _{min}		azimuth down		plunge	
		Strike.		105		02	

strongly foliated gray meta
med. ~~gray~~ grained lb granodiorite
(comp is approximate)

S.R. Suite - dips under
W₃ & metavol sequence

XXXX FUEL-HPXXXX

(during fuel up)

STATION #		11687		NTS	
N				E	
lithology				color	
unit				S	strike dip direct.
S1?	strike	dip	direct.	L	azimuth down plunge
	100	19	N		

- moderately to strongly foliated
chloritized E, locally epidotized
hbl granodiorite as @ D11686

STATION #		11688		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- massive to sl. foliated

Hbl. garnetite as @

△ 11687 - goes upwards
into thinly layered white to
red grey, sl. rusty fgr
qtzites. - contact w/
igneous rock is conformable.

STATION #		1689		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S ₁	strike	dip	direct.	L	azimuth down plunge		plunge
(coro)	070	16	N				

← layering in marble

pale grey massive, finely banded
marble (fine locally med.
grained) - has a rounded
structure that may be a

→ 12 cm ← corol

- overlain by cleared, strongly
chloritized, RKA granite (cs.
grained) w/ abundant hematite
staining - go up w/in
15 m (structural) into good
RKA granite - non
foliated

- X Corodent Sample

STATION #				1169D		NTS			
				N				E	
lithology					color				
unit					S	strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge		

med. grained massive, sl.
pinkish brown weath
Hbl granite - no mica
at all

- non-foliated

- comp ~ = RCA pluton

STATION #		11691		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
shear	030	34	NW				

- creek bed w/ RCA cs. gr. pink weath intrusive
- near drop off is badly sheared & chloritized
- after move up creek - med grained troctolite (50-50 ol - plag - ans w med grained altered gabbro ± ol gabbro
- shear foliation near pickups as given 030/34NW
- minor amt of dk green serpentine

STATION #		11692		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge				plunge	

- non-foliated, med grained
pink weath RCA hbl.
granite

- much dk - grey - green
lichen, which gets
confusing.

STATION #		11693		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	165	39	E				

↳ in gtz purph.

- start in dk green basalt (cpx or Serp. OPX in serp groundmass)
- then get into N. rusty with siliceous carbonate rock and gtz pebbles? cobble cglm w/ rusty Fe brls matrix, then into non - foliated gtz porphyry (f grained) then finally into med. grained RCA gneiss.

XXX fuel - up XXXXX

STATION #		116894		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive rusty brown with
 f. gr. felsic c/tz eye
 rough

STATION #				11695				NTS																			
								N				E															
lithology								color																			
unit								S				strike				dip				direct.							
S				strike				dip				direct.				L				azimuth down plunge				plunge			

- massive red grained pink weath RCA hbl granite
- on - foliated

STATION #			11696		NTS			
			N				E	
lithology				color				
unit				S	strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge	
	135	34	NE		135		00	

- thick layered v. fine grained
sl phyllitic cream to med
green ~~flag~~ g. tates (?) or siliceous
g. tates (?) - this rock is
messy - looks like may be
a ~~ss~~ f-gr. cataclastite -
sheared version of S.R. plutonic?
or also part of Chlantic
package (??)

- measurement is on local
minia ~~but~~ fold that
warps the layering - no
ax R cleavage @ all.

STATION #		11697		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- dk green finely layered
f. gr. meta basite

- too f. gr. to tell
mineralogy - not a w. well
dev. seen on foliation tho'

- prob related to best stop

STATION #		11698		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- badly planed (sheared, fractured, altered) dk green basalt — no meta fabric dev. at all.

- also present (in uncertain contact w/ basalt) is a tan breccia. gtz - epidiorite (or altered albite granite?)
- no K-spar seen — could be either related to the gtz porphy of earlier W's or else maybe albite granite.

Note this rock has been sheared along w/ the basalt

STATION #		11699		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	0	strike	dip	direct.	L	azimuth down plunge	plunge
		047	19	NW			

- massive dk green locally epidotized ARG basalt
dk green to med rusty brn
weath
- locally have epidotized
diabase (?) in uncertain
contact w/ the basalt
- down the creek have
bleached white thinly layered
grey cherts (f. gr. glauco-
nate)
- abundant hematite here

ARG

STATION#		11780		NTS			
lithology				N		color	
ent						E	
S		strike		dip		direct.	
						2299	

biotite granulite -
 med. grained equigran-
 ular foliated but ofc is
 platy & slicked implying
 shearing.

also present is bio rich
 gtz feldph sch which has
 a pervasive metamorphic
 can't see good enough to
 work out relations of
 > rx suspect it has rx
 are g'n & rocky weath
 are bio rich

STATION #		11701		NTS			
lithology		N		color		E	
unit				strike		dip	
S		strike		dip		direct.	
						plunge	

152 / 42 NE very subtle

folia in pelagial

fine - med gr. bio
crinoids - no porphs -
ragged folia

has ~ folia form bio rich
rusty weather metamorphic?
zones running through of

very rusty weather band is a coarse
well foliated wavy strobil +
+ mass +
a good ribbon strobil +
seems folia form in 6 ft
1st 2 rx

F08 rocky patch is
a small foliated coarse
musc bio granitic rock
which seems the dominant
rock here - further E:

Is a finer musc bio rock
which is comp similar
to the coarse rx but
has a grain size of 1st rx
main rock type is coarse
2 mica foliated granitic
1st type probably sits
1/ to folia

STATION #		11702		NTS			
		N				E	
lithology							
unit						d. red.	
S		strike		dip		dip	

coarse granofoid quartz
 with white granodiorite
 massive pegmatite of
 pegmatite with biotite
 mass

STATION #		11703		NTS	
lithology		N		E	
unit		+			
S	strike	dip	direction	1° 095	60 N
				slight down	plunge

thinly foliated gtz bed
 six groups. - granitic
 comp could be the
 fine bio granodiorite
 foliated but?
 no argon.

some coarser altered granite
 pods along S₁

STATION #		11704		NTS		1056	
lithology							
unit							
strike				dip		direct	
						plunge	

very weathering medium
 gray to dark gray butite
 bearing quartzite with
 a few p.p.s. - these
 thin lens layers
 of $\sim 1/4$ " siliceous layers
 with paper thin butite
 folia. not carbonaceous

STATION #		11705		NTS	
lithology		N		E	
unit					
S		strike		dip	direct.
				down dip	plunge

platy biotite and biotite
+ trace Feldspathic quartzite -
better platy color / layering
than last one not
as pure and no S=

some rx with biotite
spots in folia -
also some specimens
with tremolite & needles

STATION #		11706	NTS	
		N		E
lithology				
unit				
S	strike	105	65	NE
		plunge	down	plunge
		13	080	65

well foliated biotite
bearing gabbro
quartz or epidioritic
gneiss.

much less muscovite
+ biotite

similar to 1198

Ac/c unit?

rootless isoclinal along S₂

STATION #		11708		NTS	
		N		E	
lithology					
unit					
S		strike		direct.	
				plunge	

fine to med grained
 arg. granitic gneiss
 rock

STATION #		11709		NTS			
		N				E	
lithology							
unit							
		ES ₂ 158		24		direct. NE	
S	strike	dip	plunge down		plunge		

Cr. like + coarse gneiss.
 Feldsp?? - seems more
 like a dirty gneiss
 than last few stops.

120/415 NE ax pl
 of 3rd of upper
 foliation.

STATION #		11710		NTS			
		N				E	
lithology							
unit						contact	
S	strike	dip	down	up down plunge		plunge	

med to fine grained biotite
 granodiorite with leathery
 tourmaline
 massive unfoliated
 equigranular

STATION #		11711		NTS			
		NI				E	
lithology							
unit							
S		strike		dip		direct.	
						plunge	

medium grained biotite
 + more garnet-like
 massive crystalline.

in contact with
 biotite rich gneiss
 gneiss. like seen
 nearby.

STATION #		11712		NTS			
		N				E	
lithology							
unit							
						dip	direct.
S	strike	dip	direct.	L	up	down	plunge
					plunge		

low rise granodiorite +
 sillimanite + quartz
 gneiss.

STATION #		117/S		NTS			
N							
lithology							
E							
unit							
S		strike		dip		direct.	
				22132		52	
						NE	
						dip down	
						plunge	

med to dk grey biotite
 - musc gtzite - may have
 been a little carbonaceous
 but don't see clear graph.
 - granitic to gneiss
 schist

has little randomly
 oriented blk prismatic
 xtal

lesser chl >> cordierite
 schist = metab.

STATION #		11714		NTS			
				N		E	
lithology							
unit				S		dip	
				2 120		24	
S		strike		dip		direct.	
				L		NE	
				north down		plunge	
						plunge	

Used to dk grey silic
 core musc phyllite to
 fine schist - carbonaceous
 slightly - varies to
 fine micaceous gneiss
 biotite purple common

Same unit as last stop
 related to 11709.

STATION #		11715		NTS			
				N		E	
lithology							
unit							
				13		110 90	
S		strike		dip		direct	
				L		plunge	

slightly foliated to well
 foliated biotite bearing
 gneiss. Feldspar gneiss
 granitic biotite
 to well banded to subtly
 foliated gneiss - some that
 but no st of augen.
 unfoliated granobites -
 some of less foliated
 or are 2 micron granoblastic?

STATION #

11716

NTS

N

E

lithology

color

unit

S

strike

dip

direct

2°

065

80

SE

S

strike

dip

direct

L

align with down
plunge

plunge

heavily chloritized
biotite to celad or tho
gneiss with pods
of it'er weathering
granulite and
pegmatite.

doubly foliated
grades to Lr gneiss

STATION #		11717		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	vertical down plunge		plunge

poly, chlorinated biotite
 & the feld gneiss (orthogneiss?)
 which is medium grained
 and intruded by medium
 grained granitic (biotite
 granodiorite) rx like those
 seen earlier -

orthogneisses are clearly
 related to the chlorinated
 gneiss complex of Simpson
 Range (not the Sump All. h!)
 and are variably chlorinated
 here.

STATION #		11718		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

med to dk grey
 purple grey brot.
 gtrike with Eem
 & 00 (rollie)

same rx as early str.
 in brot & 00 gtrikes

STATION #		11719		NTS	
N				E	
lithology			color		
unit		CS 21		strike	dip
		V65		50	E
S	strike	dip	direct	L	estimate down plunge
					plunge

brittle gtz + bedd
 gneiss - not sure if
 orthogneiss or para
 gneiss - no sill seen
 despite search.
 may grade to brittle
 gtz

STATION #		11720		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				1?	185	12	W
S	strike	dip	direct	L	azimuth down plunge	plunge	
				1?	295	09	

chl Goldmuss - orthogon?
 not seen this before.
 don't see gtz
 Specimens have actinolite
 also.

STATION #		11721		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				2	113	24	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

It is a grey biotite
gabbro and brown
quartz pelitic schist -
lower off white or very
(1 grey gabbro)

seems to be intruded
by calcic gabbro (?)
bearing pegmatite sills
which in detail cut
S2 - 1st specimen showing
contact -

Minor chl get ex
calc sil or metab?

STATION #		11722		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				23	135	32	NE
S	strike	dip	direct.	L	estimate down plunge		plunge
				23	109		19

rusty weathering med brown
 bio & musc gte foliated schist
 may be pelitic or psammite
 pelitic in comp. no
 good garnet seen in
 sillimanite but has
 elongate dk brown
 prisms to needles -

lesser carbonaceous dk
 grey gte like minor gnt
 possible bio but gte like
 dark to be sure, minor
 po(?) in carb. gte like.

some biotite gte schist to
 biotite gte like grading into
 the more micaceous, possibly
 feldspathic down lith

STATION #		11723		NTS			
				N		E	
lithology				color			
unit				S ₂		strike	dip
						137	32 NE
S	strike	dip	direct	L	elevation down		plunge
					plunge		

med tan to gray, brn slightly
 rusty gray, brn weather
 bio > musc gte ss schist
 grading to micaceous gtzite

no carbonate rx seen

not good pelites but siliceous
 pelite grading to dirty gtzite

abundant gtz exs after
 vein gtz; lesser diffuse
 exs may be lithologic or
 S₁ S₂ interaction

STATION #		11724		NTS	
N				E	
lithology			color		
unit		CS		strike	dip
		2		107	10
				direct	
S	strike	dip	direct	L	plunge

medium olive green
 biotite m. th. chl
 act schist / metab.
 seems blocky due
 to imperfect CS_2
 development but actually
 full of chl. -

Similar to metab bands
 in carb. ply near here
 (A) - may
 be carb. ply in creek

seems to grade into more
 massive finely granular
 heavily recrystallized metab
 with lighter and olive green
 color

STATION #		11725		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				2?	315	22	NE
S	strike	dip	direct	L	azimuth down	plunge	plunge

medium dark to dark grey
 non calc. variably
 musc. phyllite with
 sparse bit like porphy

STATION #		11726		NTS	
			N	E	
lithology			color		
unit			S?	strike	dip
			2?	156	22
					direct.
					NE
S	strike	dip	direct.	L?	original down
				2?	plunge
				striking	122
					plunge
					7

med to dk grey uncalc s.l.c
phyll to fine schist. as
before.

quite quartzose on the average
possibly not carbonaceous enough
to be conductive

STATION #		11727		NTS	
		N			
lithology			color		
unit					
			S	strike	dip
			27	135	30
S	strike	dip	direct	plunge	
			L	azimuth down	plunge

medium yellowish gray
 epi. calc. ch. calc. bio
 schist / metab.

STATION #		11728		NTS	
		N			
lithology			color		
unit			S		
			strike		dip
			155		32
					NE
S	strike	dip	direct	L	
				azimuth down plunge	
				plunge	

medium to dk gray
 bio & musc gtz schist
 grading into much
 lesser biotite gtrite.

Darker rx may be
 carbonaceous.

dominant lithology
 is the lighter ~~siliceous~~
 siliceous pelite with
 distinctly siliceous Foliation

structurally overlain by
 very lt green chl phy.

STATION #		11729		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
						128	35
S	strike	dip	direct	L	azimuth down plunge		plunge

dk green chl bio bed
 quartz schist / metab.
 reasonably calcareous.

grades into blockier
 chl act metab + bio
 blocks.

Same chl unit seen
 at last stop no
 evidence of relation
 to ultramafics

STATION #		11730		NTS			
lithology				N		E	
				color			
unit							
S		strike		dip		direct.	
27		172		36		E	
S		strike		dip		direct.	
						L	
						or mouth down plunge	
						plunge	

fair weathering strongly
 kyzeeal sequence of
 interbedded non calc
 coarse bio mure guts
 schist (some chl retrograde)
 non calc bio mure
~~guts~~ feldsparitic
 gneiss and very
 calcareous gneiss
 with clastics.

blocky biotite at throat
 tops of psammite
 layers $\Rightarrow$ blocky bio f
 orthogneiss + beds
 probably gneiss. tops
 up 50 11 52 (2)

STATION #		11731		NTS			
		N				E	
lithology				color			
unit				S		strike	dip direct
S	strike	dip	direct	L	azimuth down plunge		plunge

med green mottled chl
 foliated gneiss with lesser
 actinolite breccia(?) rock
 (schist?) that consists
 of interlocking sheets
 of actinolite appearing
 around randomly
 oriented white
 (rubble only here)

most mafic rock is the
 actinolitic stuff & not
 sure if a genuine alpine
 ultramafic.

no other rock types
 minor talc on one actinolite
 specimen.

STATION #		11732		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				2	126	10	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
				2	108		4

↑
striking line

all very strongly
striated carb. micr.
phyllite. no other
rx line.

o/c is drusy but
rx not calcareous -
some ~~inter~~ thin
finely granular siliceous
layers ⇒ this is
carb. pelite gte silty
sequence.

STATION #		11733		NTS			
N				E			
lithology				color			
unit				S 2	strike 138	dip 32	direct. NE
S	strike	dip	direct	azimuth down plunge		plunge	

-d. Ho - lighter actually
medium to dark and
grey phyllites are
better developed here.
not particularly siliceous
but has siliceous rich
layers - seems
generally more calc.

STATION #		11736/		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S		strike		dip		direct	
				azimuth down		plunge	

medium yellowish
 green chert epi
 Fels(?) - minor black
 mafic schist/metab
 seems like chert
 unit seen around here

STATION #		11735		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direction
				2	125	20	SW
S	strike	dip	direction	L	strike	dip	direction

med yellowish green
ch / act. & l. calc. teph.
green schist of the
metabasic package
no assoc. rx

STATION #		11736		NTS			
N				E			
lithology				color			
only		S		strike		dip	
S.	strike	dip	direct	L	azimuth down plunge		plunge

It tan to cream breccia
 blocky. Euldeputhic to
 low grt. Feld. para. quartz
 of AC/DC unit or grit
 unit - possible grt eyes
 in some.
 rubble only

STATION #		11737		NTS	
N					
lithology			color		
unit			S	strike	dip
			S?	030	14
S	strike	dip	direct.	L	azimuth down plunge

dark yellowish green
 chlorite + actinolite +
 epidote schists - variably
 calcareous - some seem heavy
 but won't fizz.
 traces of cpy.

STATION #		11738		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				17	135	14/	NE
S	strike	dip	direct.	azimuth down plunge		plunge	
				17 080		9	

L technique - bio + mvs
 gtz old orthogress
 with screens of
 bio sch.

STATION #		11739		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				11	123	12	NE
S	strike	dip	direct.	L	azimuth down plunge	plunge	

tan weath thinly
 layered and strongly
 foliated gte & l. musc
 per. gneiss (meta sandstn)
 which is slightly calcareous
 but not strongly so anywhere
 and mostly not
 interlayers of gte musc
 cal sch

STATION #		1174/0		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				17	125	9	SW
S	strike	dip	direct.	L	slmsh down plunge		plunge

dark green strongly biotite
 spotted chl act schist.
 Structurally overlain by
 chl musc rich argen
 gneiss like at

STATION #		11741		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						azimuth down plunge	
S		strike		dip		direct	
						L	
						plunge	

hbl'd & fld rare gte II

unfoliated & massive

appears to be at top
of body

weath reddish brn

STATION #		11742		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direction
				1?	097	22	N
S	strike	dip	direction	L	estimate down plunge		plunge
					056		10

poor streaking
lin.

chlorite not bio schist
overlain by biotite bearing
"metagritze" interbedded by
augen / white ksp / gneiss

"strike" may actually be
more sheared augen gneiss
or chilled zone with
no porphy.

STATION #		11743		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

massive grey green blbl
porphyry like '41 but
finer blbl & here they
are extensively chloritized

no foliation

STATION #		11744		NTS	
		N			
lithology			color		
unit			S		
			strike		dip
			120		09
S	strike	dip	direct	plunge	
				085 06	

biotite & muscovite + feld quartz
with well developed layering
and zones of pea sized
white feldspar.

slightly calcareous

I think this is pergneiss
after gnt unit. like rx

rx are well layered & fairly
calcareous.

lineation is alignment
of biotite clds

STATION #		11745		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				2	072	7	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

tan to cream colored
 musc > bio grt. bed minor
 calc. ke + grt per & quartz

also lt green calcarenos
 (badly weathered however)
 chl bio schist

STATION #		11746		NTS		
		N				E
lithology			color			
unit		S	strike	dip	direct.	
S	strike	dip	direct	L	select down plunge	plunge

S	off	dig	direct	slants down	plunge
---	-----	-----	--------	-------------	--------

STATION #		11747		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				27	110	20	S
S	strike	dip	direct	L	azimuth down plunge		plunge

biot + gtz minor
 calcite schist and
 biot + gtz + feldsp. gneiss
 probably a paragneiss because
 of good ^{plagioclase} foliation and
 assoc rx.

STATION #		11748		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				17	030	46	NW
S	strike	dip	direct.	L	azimuth	down plunge	plunge

rubble of blocky serpentinized
 ultramafic - g/s is lt green
 chl schist and further
 rubble of chl schist orthogneiss
 massive foln is in lt green
 chl sch and is decidedly not
 parallel to met foln in surrounding
 rocks which are chl bio schists
 that seem strangely altered
 and have small faults dipping
 NW with slickens down dip.

STATION #		11749		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1.2	074	13	NW
S	strike	dip	direct.	L	azimuth down plunge	down plunge	plunge

bio (much altered $\rightarrow$ chl) + musc ^{minor} gneiss
 strobiloid gneiss with minor
 calcite $\Rightarrow$ paragneiss.

well layered 11 to 10m
 but there is obvious metam
 layering or may not mean
 much - well developed gtz ribbons
 along S/L as is typical
 for this unit.

STATION #		11750		NTS			
		N				E	
lithology				color			
unit				S 21		strike 157	
						dip 20	
						direct E	
S		strike		dip		direct	
						L	
						azimuth down plunge	
						plunge	

variably calcareous 2 micron
 pelitic schist with coarse
 garnets ~ pen size & up to
 3/4" diam also tan weath
 erable layers.

STATION #		11751		NTS					
		N						E	
lithology				color					
unit				S		strike		dip	
						007		30	
								E	
S		strike		dip		direct		L	
						azimuth down plunge		plunge	
						100		25	

actinolite elongation //
to comp layering
stripping

medium green actinolite
chl biotite schist part
of metabasite unit
because of general
appearance and dusty
of + slight calcite
contrast -
minor malachite

STATION #		11753		NTS			
				N		E	
lithology				color			
unit				S 2.7		strike 090	dip 50
						direct. 5	
S	strike	dip	direct.	L	azimuth down plunge		plunge

color very approximate - dk
 to med green ~~act~~ feld
 schist to med grained
 gneiss - seems related
 to metabasite pkg
 see earlier to deny
 & coarser rx may be
 sills

cross act feld gneiss
 commonly strikingly banded
 perhaps metamorphic?

STATION #		11754		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	L	azimuth down plunge		plunge

Seems to be a mixture
 of sillimanite gneiss
 migmatite gneiss weathering
 rusty brown and actinolite
 feldspar gneiss reminiscent
 of coarser rx from
 last stop.

Suggest either interlayers of
 mafic unit and Pse. or
 base of mafic unit or
 infolds of mafic in Pse.
 can't be sure - but foly
 seems to dip mild to
 NW which is at odds
 to regional dip.

STATION #		11755		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				2	045	45	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

calcareous biotite schist
 and it gneiss thin marble
 bands - weathers tan.
 unit is clearly ptsc.

STATION #		11756		NTS			
				N		E	
lithology				color			
unit				S		strike	
				2°		110	
				dip		40	
				direct.		SW	
S	strike	dip	direct.	L	azimuth down	plunge	plunge

medium grained equigranular
 foliated bio + musc
 granodiorite or gte
 monz. ? -

in contact with ribby
 weathering scale gte biotite
 schist and lesser interlayered
 marble.

STATION #		11757		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

med grained biotite granodiorite
 megacrystic & not foliated
 but has some slightly
 foliated zones where chl is
 after biotite.

STATION #		1758		NTS	
		N		E	
Phology				Co.	
unit		S	strike	dip	direct
		2?	130- 150	35	NE
S	strike	dip	direct	L	azimuth down plunge
					plunge

course and green chl/musc
gts schist minor small
gnts 1 for calc. -

specimen is chloritized
s. white schist. does not
look like marble pky.
looks like psc.

looks like until ~
500' to west.

STATION # 11759

NTS

N

E

lithology

color

unit

S

strike

dip

direct

S

strike

dip

direct

L

azimuth down
plunge

plunge

004/19E S₂? 11 cm play

bio mure gtz field gnt
schist interlayered with
gtz field bio mure gnt
para gneiss after ss layers?
unit RE SC

gnts are quite pale &
seem to be mixture of
gtz + gnt
local chlorite zones
when ~20% of bio is
→ chp

STATION #		11760		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				2.7	162	31	E
S	strike	dip	direct	L	azimuth down plunge		plunge

dk brn
thinly interlayered, biotite
& feld schist and off
white very small foliated
biotite bearing feldspathic
quartzite which I
suspect shows mylonitic
structure but I doubt
there is much significance
in relation to contact
here.

Some gneiss is one slightly
calcareous - but none strongly
so - all gradations exist
to ~~near~~ biotite schist.

Further down in section
is argon schist after over
grit → pebble congl

thin layers bearing rx are in
layers only a few" thick
thus the implication of gneiss.

there are also interlayers
of chlorite + bio metab
basic igneous rocks which
are very similar to overlying
unit. Rx are not well exposed
but metabasic layers appear
to range from a few inches
to several feet thick. Also
there seem to be intermediate
lt greenish gneiss rx that
may be mixtures of the
metre & clastic packages.

Photo of thin layered (bedded)
gneiss: biotite schist.

STATION #		11761		NTS	
		N			
lithology				color	
unit				S	strike dip dire
S	strike	dip	direct	L	azimuth down plunge

rubble of marble silicified
 marble, muscovite schist
 and muscovite gneiss bearing
 grains of pyrite.

STATION #		11762		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				21	000	22	E
S	strike	dip	direct.	L	azimuth down plunge		plunge

60 + more gtz feld gneiss -
 non calc - has interlayers
 of brn mss rich gnt
 bearing gtz feld schist
 and in places in ok
 seem to have variation
 in pelitic component in
 bands ~ 2" thick
 parallel to foln perhaps
 both implying peragneiss.

later seen much pelitic
 to psomipelitic or some
 of which are very slightly
 calc.

re/oc unit?

STATION #		11763		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
					105	25	S
S	strike	dip	direct.	L	azimuth down plunge		plunge

poor reading or foliation
 in coarse argen gneiss.
 large white ksp argen
 in gneissic ribboned
 gne + feld matrix -
 good flaser structure.

STATION #				11764		NTS			
				N				E	
lithology				color					
unit				S		strike		dip	
S		strike		dip		direct.		L	
						azimuth down plunge		plunge	

sheared pyritized
 and garnetiferous
 granulite (?) - can't
 get shear direction but
 seems to dip west
 to steep SW.

STATION #		11765		NTS			
		N					
lithology				color			
unit				S 17	strike 052	dip 28	SE
S	strike	dip	direct.	L	azimuth down plunge		F

coarse white ksp argen
orthogneiss like '763
seems to be muscovite
rich with perhaps some
chl but no biotite
seen -

rocks seem altered
& are crumbly or no
sample - from
distance see foliation
aplike sills.

Photos of the large
argen - a walnut
sized

STATION #		11766		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct.
				?	100	29	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

pale green variably
 calc. chl musc Schist
 and calcareous gneiss
 similar to pfs -
 again these are
 100% quite retrograded
 bio → chl

additional foliation
 is intensely crumpled and
 foliation gorge zones
 are developed - average
 trend of this gorge is
 folia is what's measured

STATION #		11767		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				23	110	28	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

non calc chl musc gtz
schist with good
relicts of almand garnets.

090 / 725 ax pl of
basal cross in S_2 (?)

again rx are badly
retrograded - same
unit as last stop
but not calc here just
pelites - no gtzite
boudins either.

But on taking off can see
calciferous rx ~ 200' down
hill.

STATION #		11768		NTS	
		N		E	
lithology			color		
unit			S	strike	dip
S	strike	dip	direct.	L	azimuth down plunge
					plunge

323 / 65 SW = av. attitude
 of shear zone exposed on
 cliff - rx are intensely
 fishscaled ~~the~~ mafic rocks
 with poss. bk serpentinite
 but nothing clear cut ultramafic

Rx up hill are normal
 dk green actinolite + chl
 + epid. schists locally
 with tan chlorite rhombs
 and a few thin rusty
 weath. quartz veins
 same metab both sides of shear.

342 / 52 SW S₂? in
 metabasic rx ~~in~~ valley

bottom - across ck is

mica schist 1 mi E of PESC
 with foln. 348 / 20 SW.

area schists are clayey musc-
chl schists with large
pento-gonite bean size
garnets ~~sch~~ (partly retrograded)

on east side of creek
is interleaved metabasite
and feldspathic biotite
bearing gneiss, argon
gneiss (grit?) and biotite
schist. Photo of thin
light gneiss layer between
act chl bio schs. to illustrate
interlayering of the two
units

STATION #		11769		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

Foln is ~ horizontal

rx are tan weathr thinly
layered. It goes to ~~open~~
~~slightly~~ slightly calcareous
feldspathic gneiss (grippy?)
interbanded with mica

schist as seen so commonly
in this unit. Top of

peak is chlorite schist
perhaps of metab. unit but

suspect it's just an
interband in psc

STATION #		11770		NTS	
lithology		N		E	
unit		S		color	
S		strike		dip	
strike		107		32	
dip		direct		N	
L		azimuth down		plunge	
plunge					

silvery med grey w/ calc
 more phyllite - not particularly
 carbonaceous nor is it
 siliceous.

well I find since it
 grades into gray micaceous
 gtside quite commonly -
 also is dk grey in places
 no chloritic rocks seen
 either as o/c or flat

STATION #				11771				NTS					
				N				E					
lithology						color							
unit						S		strike		dip		direct.	
S		strike		dip		direct.		L		azimuth down plunge		plunge	

biotite rich metabasite ??
has sections which are
etc. & old rich and garnet
bearing -

probably just a high
grade pelitic schist but
seems awfully biotite
rich and ~~very~~
granular as opposed to
the usual highly foliated
pelites in place.

unit has thin tan
weathered chlorite
as lenses along the
foliation.

STATION# 11772 NTS

N

lithology				color			
unit				S	strike	dip	direct
				2?	210	16	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

dark green metabasite
interlayered with and
overlying meta seds of
Pesc. which have one
gtr mus chl + calcite schists
grading into mus + chl
+ calcite grites with good
Flaser fabric and sparse
small auger -

metabasites have zones of
coarse texture and also
^{a few 'thick}
zones where there seem
to be abundant carbonate
rhombs

some metabasic rx

STATION #		11773		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				20	160	20	E
S	strike	dip	direct.	L	azimuth down plunge		plunge

unusually light or med
grey mass chl garnet
± calcite schist of PESC
overlain by schistose
(pelitic) marble.

Schists have gabb.
bean size garnets fairly
well preserved.

STATION #		11774		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				2?	067	18	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

meta seds as before but
 with an ~2m thick
 sill of meta - plite
 upper & lower contacts
 meta-cherty but have primitive
 gte phenos implying
 this is a "glassy" chill
 zone not an ultramylonite
 zone.

STATION #		11775		NTS			
		N				E	
lithology				color			
unit				S 1??		strike 357	
						dip 15	
						direct. E	
S	strike	dip	direct.	L	azimuth down plunge		plunge

well foliated augen gneiss
with large flattened white
Ksp augen.

mus mainly musc
with minor chl.

weak streaking location
a East west but this
and foln are not good
measurements

STATION #		11776		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				2?	255	10	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

thinly layered tan weath
 musc chl schistose mbl
 as seen at several
 stops rocky interlayered
 with pea sized garnet
 bearing musc chl schists
 gnts look fairly fresh
 but musc chl no biotite
 assemblage may suggest
 these are retrograde.

crack E - in breccia

STATION #		11777		NTS			
				N			
lithology				color			
unit				S	strike	dip	direction
				17	210	06	SE
S	strike	dip	direction	L	azimuth down plunge		plus

bio ← musc argen greiss
 much faster than most
 of this body

STATION #		11778		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				1?	120	16	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

musc >> chl argen gneiss
 as before but seems
 to have been sheared
 again - very messy
 and retrograded.
 no biotite.
 UGLY!

STATION #		11779		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				27	012	24	E
S	strike	dip	direct.	L	azimuth down plunge		plunge

tan weath. muscovite
 & strike of with good bio
 and more muscovite
 and pea or smaller pale
 pink garnet - interbedded
 with coarse musc chl
 schist. Pelites are soft
 and seem retrograded
 but gneisses which are
 harder have good clotted
 biotite.

pelites & gneisses completely
 granulated - does this
 imply protolith to boulders
 seem to have been originally
 coarser grained in gneiss
 but not sure sedimentary.

glaziers are probably
quite strongly felspathic

(hope this machine gets
tracked soon!)

STATION #		11780		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				21°	132	32	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

muscovite non calc
 albitic gneiss and
 gneiss bio schist grading
 into one another.

down hill see grey
 phyllite (musc + bio bearing)
 to schistose gneiss which
 are characteristically ^{me} grey
 rather than lt brownish
 grey weathering and
 may be truly quartzites -
 they grade into mel
 to rarely dk grey gne
 phyllites which I have
 never seen in the striped
 unit. Some grey phyllites
 clearly have graphite. -

This is same as 11770 etc.

STATION #		11781		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
							direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

sequence that seems to fit best in the grey pelite / gneiss and metabasite unit.

Rx are dk to med green chlorite + biotite schist and highly lustrous med grey chlit + musc fine schist.

no calcareous rx seen - this doesn't look like psc

I think we are way up in the section and rx are wrapping over the large anticline to N and getting chopped off by a combination of granite and orthogneiss to SW.

there are several dics of
tan weath argen bearing schist
or fine argen gneiss that
may be meta gpts, felsic
volcs or fine intrusives - I favor
the latter - they are definitely
metamorphosed and could be
offshoots of the orthogneiss

One of these gts more field
rk has several ϕ py and
seems to be the source of a
fairly interesting pill zone, -
no base metals seen.

STATION #		11782		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				25	142	35	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

chl act bio schist / metab.
 with interlayered rx that
 look like the grey pelite
 siliceous pelite / gneiss pkgs
 there is very good carbonaceous
 phyllite here -

Also see minor amounts
 of tan weather muscovite
 gneiss schist that
 has a fine augen
 structure; could be
 gneiss or felsic metabasite
 or meta ign

all in all these rx
 are remarkably reminiscent
 of 11781 but metabasite
 is way dominant

STATION #		11783		NTS	
		N			
lithology			color		
unit			S	strike	dip
			27	145	22
S	strike	dip	direct	L	plunge

darkish
 dark green blacky green
 matrix chl act metabasite
 with moderate foliation.
 cant tell if intrusive
 or volcanic - its just
 too metam.

STATION #		11784		NTS			
				N		E	
lithology				color			
unit				S		strike	dip direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

rubble of tan weather
 cream colored fine grained
 well foliated (flaser folia)
 and bimineralic banded
 (metam) gte folcl musc > bio
 small augen greiss/schist
 small < pl size augen of
 white ksp? and probable
 poly xln gte - a few
 larger poly xln gte augen
 after vein gte?

STATION #		11785		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				21	112	20	NE
S	strike	dip	direct	L	azimuth down plunge	plunge	
				2	108	04	

medium to dk grey basic bio
 gte - appears to be slightly
 carbonaceous because of
 stately grey to bluish grey
 foliation surfaces.

L₂ is str-ping and overlap
 lineation

STATION #		11786		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
				L		azimuth down plunge	
						plunge	

rubble of dk grey gtz
 feld mss bio sch - slightly
 carbonaceous and spiky
 blue grey weathering
 micaceous gtzite. -
 same unit as last stop.
 Some gtz grains are
 almost granule size
 but not sure if original
 or relict.

STATION#		11787		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

100/30 S S_2 in hld
 old bio act orthoquartz
 medium grained good
 speckled texture but might
 be mainly metamorphic
 good foliation in body
 but still blocky as
 little mica's

rusty weath rx one hornblnd
 bio & garnet bearing alk qtz
 g. tarts with up to 5% po.

STATION #		11788		NTS			
		N					
lithology				color			
unit				S	strike	dip	circ.
				27	090	65	5
S	strike	dip	direct	L	azimuth	down	plunge

same meta igneous rx as
last stop but seem more
biotite rich here. In
contact with carbonaceous
phyllite and turn as
creme muse bearing gztites
that might be related to
the small argen gneiss seen
yesterday across valley

Unfortunately these rx
are so broken & weathered
that I can't get a good
fresh surface.

STATION #		11789		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1?	075	78	5
S	strike	dip	direct.	L	upbath down plunge	plunge	

well layered (metam?)
 fine to med gr.
 n gtz fol bio - gneiss
 seems to have a lot
 of pinkish w. ksp -
 rootless folds of gtz &
 ksp presumably ^{old} veins.

homogeneous comp over
 05 and appearance from
 our suggest this is
 orthogneiss but foln + lamin
 layering like AC/UC unit -

no accn unless you include
 the gtz blobs + cunech
 folds along foln.

bio → chl locally.

STATION #		11790		NTS				
				N		E		
lithology				color				
unit				S		strike	dip	direct.
				2		135	56	NE
S	strike	dip	direct	L		azimuth down plunge		plunge

this station seems to be
 on a sequence of tan
 weath to rusty tan
 weath creme colored well
 foliated gtz feld musc
 biotite gneiss which rarely
 has small quartz and is
 interlayered with gtz muscov
 schist and very fine grained
 muscovite gtz like - to the
 east the sequence includes
 biotite musc gtz feld schist
 which grades into gtz feld
 rich rocks not terribly unlike
 first package lithology but
 for more biotite.

See the rx of the first
 pkg interlayered on 1 foot

scale with biotite rich metabasals
with both clear razor sharp and
gradational contacts over 2".

A samples are 1st ptg.
B samples are second.

There are thin (few feet
to tens ?) of metabasic
rx as well.

STATION #		11791		NTS				
		N				E		
lithology				color				
unit				S 17		strike 154	dip 22	direct. NE
S	strike	dip	direct.	L	azimuth	down plunge	plunge	

argen gneiss - coarse
 grained with white
 to lt grey ksp (K) argen
 and coarse clotty black
 biotite much of which
 is $\rightarrow$ chlorite.

can't measure strong
 lineations

STATION #		11792		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				2?	150	34	NE
S	strike	dip	direct.	L	strike down plunge		plunge

non calc gtz musc bio
 minor chl schist to musc
 bio gtz - unclain by
 tan weath calc schists & gtzites
 some pear sized garnets
 particularly in the
 calcareous schists

STATION #		11793		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
		1?		000	44	E	
S	strike	dip	direct	azimuth down		plunge	
				plunge			

augen gneiss.

$\frac{1}{2}$ - 1" (Ksp?) augen
 well foliated with strongly
 developed gte ribbons +
 musc → bio some chl

STATION #		11794		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct
				2?	152	32	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

medium greenish grey
 fld chl bio moderately
 foliated yet granular rock
 that could be a metab.
 or calc sil suspect its
 metab because there
 is really good med graind
 chl bio rich metab which
 is med-dk green.

STATION #		11795		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
L		strike		dip		direct	

rubble only though suspect
 Turn on a dip slope.

rx are dk green metabasite.
 c41 act bio feld schist
 some ^{lt} gray gts. as well
 but very minor.

STATION #		11796		NTS			
				N		E	
lithology				color			
unit				S		strikes	dip
						040	15
S		strike	dip	direct	azimuth down plunge		plunge

bioargillaceous argon gneiss
with white ksp(?) argon
to $3/4 \times 2''$ in cross section
foliation development
seems to vary considerably
in intensity

argon up to $4''$ but
rare most $\frac{1}{2} - 1''$ range
for long dimension.

has large biotite clots
which are locally altered
to chlorite - same
unit as 11791

STATION #		11797		NTS							
		N						E			
lithology				color							
unit				S		strike		dip		direct.	
				12		137		36		NE	
S		strikes		dip		direct		L		azimuth down plunge	
										plunge	

now oxygen bearing glc field
bro inverse orthogress -
actually has some ksp.

120/50 NE another folm
meas ~ 150' to E.

compositionally this is like
the argon gneiss but
with out the argon
and the ribbon foliation
is not so well developed,

There are Screens of retrograd.
or jet weathered garnet
in schist and at east
end of portion of ridge
seen is normal wht ksp.

algen 940155

STATION #		11798		NTS			
			N	E			
lithology				color			
unit				S	strike	dip	direct.
				17	130	45	NE
S	strike	dip	direct.	L	elevation down plunge		plunge

strongly sheared (bittly)
 argen gneiss with bio →
 chl. to west of argen
 gneiss is a crush zone
 with slicks raking
 $\pm 30^\circ$ N ~ 11 to trench
 on steep surfaces. The
 rx are so badly crushed
 that all I can say
 is their composition
 was granitic probably
 though some metabasic
 rx are present but minor

STATION #		11799		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				17	010	40	E
S	strike	dip	direct	L	azimuth down plunge		plunge

well foliated argen gneiss

STATION #		11800		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

massive dk green ARG
basalt w/ locally
dev. cpx (?) pheros?

- dk green to med brn weath

STATION #		11801		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

- thinly bedded med to dk green
meta igneous rock - weathers
like ARG but appears to
have relict feldspar grains,
some of which are pinkish
(Kspar?)

- rock shows @ good layering
but is not particularly
well foliated

- could be ARG related
or a sheared out & deformed
metaplutonic rock - can't
tell for sure

* later - after several other stops in
same stuff - prob. maybe dtr
RCA granite

STATION #		11802		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- thinly layered dk green cl-act
metabasites locally sl. pyritic,
locally calcareous.

- minor med green f.g. r gfts
dss.

CL - package

XXX End of Day XXX

Chopper logging Mass
Klippe

July 15

STATION #		11803		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- massive med grained d. pinkish
brn weath hbl granodiorite
of Simpson Range suite.

- non foliated, quite fresh
oxidized

- pale green (bleached ^) on
fractures

- appears to have a prominent
jointing dipping $\sim 10^\circ$ N

- no slicks observed on these
joints

STATION #		11804		NTS	
		N		E	
lithology				color	
unit		S		strike	dip
S	strike	dip	direct	azimuth down plunge	
1500 day	145	28	SW		

- white to cream to pale grey to med green thinly layered slate or siliceous siltstone. Interbedded w/ med to dk green, soft (to scratch, that is) fine grained rock with a fishscale type foliation rather than a good meta foliation (Phyllon?).

- This could be a sequence of mylonite

STATION #		11805		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	strike	dip	direct.

- med green f g rained fishscale
 rock as above - all
 slumped blocks - this
 is certainly a fishscale
 mylonite - not sure what
 original canyon ~~was~~ would
 have been the

STATION #		11806		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct	azimuth down		plunge	
				plunge			

- massive, highly chloritized
 randomly fractured
 med to dk green
 dk green to black

STATION #		11807		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- interlayered badly altered
dk grey weath. f. gneisses
disbanded or metabasalt.

and extremely altered

pinkish weath. shattered
and calcite cemented
RCA granite.

STATION #		11808		NTS			
		N				E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		plunge	

- massive, highly chloritized
 & epidotized, highly fractured
 med. grained RCA Nb
 granite

STATION #		11809		NTS			
		N				E	
lithology		carbon.					
unit		S		strike		dip	
						direct	
S	strike	dip	direct	down		plunge	
	no	trace					

- thinly layered white to
dk gray, sl. carbonaceous
sil. phylites and gneisses.

STATION #		11810	NTS	
		N		E
lithology				
unit		S	dip	direct.
S	strike	dip	direct.	L
fluxion	25	75	NE	

- pale to med green "soft" mylonite
w/ wispy laminations
- U. similar to D11804, 11805
- locally have small gtz
eyes (U. rare)
- locally looks like could
be a sheared ~~gabbro~~
granite!

STATION #		11811		NTS			
		N				E	
lithology							
unit		S				dip	direct.
S	strike	dip	direct.	L			
fluxion ?	125	34	NE		310	02	

L min streak.
11 even =

red green "fishscale" mylonites
on west side also minor
carbonaceous phyllite which
also shows the fishscale
fabric

(one of these days when they
get the vibration out of
this machine....)

(fishscale fabric appears to
be 11 (at least in the
carbonaceous part) to ax 12
of small crenulation folds
(note the cren^l is the small
fold in the carb. sample).

the min streaking is 11 crenulation

STATION #		11812		NTS			
		N				E	
lithology				color			
unit				S		direct.	
S		strike		dip		direct. L	
						strike	

- pinkish weath med grained
massive locally chloritized
RtA gneiss

STATION #		11813		NTS			
				N		E	
lithology				color			
unit				S		dip direct	
S		strike		dip direct		L	
						with down plunge	
						plunge	

massive, v. pink weath. red
 hb/- pear (2 → 4%)
 RCA granite.

STATION #		11814		NTS			
lithology				N		E	
unit				S		dip	
S		strike		dip		direct	
				L		dip down	
						plunge	

- as grained pale pink with
VCA granite - locally
shattered w/ abundant
calcite on fractures

STATION #		1/875		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct	plunge	
				plunge	

- massive to somewhat shattered
dk green cpx-phyrri ARG
looking basalt locally w/
NW dipping irregular shears

- locally have a small pile
of rubble of un shattered
dk green green Hbl porphyry
(local dyke?)

- also have small bodies
(lenses) of highly altered
RCA granite included
w/in the sheared ARG

STATION #		11B16					
		N				E	
lithology							
unit		S		strike		dip	
S	strike	dip	direct.	L	north down		plunge
Sh	010	25	W				

- crudely interlayered (scale of 1 to 10 m), diff to say oo is mainly subble).

badly altered / silicified, highly fractured, RCA, granite and altered ARG, basalt ± diabase

STATION #		11817		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth	dip	plunge
flux	72	32	W				

med green mylonite

— pl. phyllite green
locally dev. on foliation
partings

STATION #		11818		NTS			
		N				E	
lithology				color			
unit				S		strike	
						direct	
S		strike		dip		direct	
L						plunge	
flux		133		40		SW	

- pale cream & f. grained
gltite or schisteous phyllite

- v. poor in mafic minerals

- locally have layers or
lenses of "fishscale"
textured albite fine-grained
metabasite - doesn't have
a good meta fabric tho'

looks like a mylonite
zone overall

STATION #		11819		NTS			
		N				E	
lithology							
unit				S		dip direct	
Stratigraphic fluxion		strike	dip	direct	L	down range	plunge
		022	36	NW			

- strongly sheared well foliated
pale to dk green, rusty with
sl. pyritic. Bl carbonaceous
glaucous & sl. phyllite.

STATION #		11820		NTS			
		N				E	
lithology				color			
unit		S		strike			
S	strike	dip	direct	st. m. d. d. plunge	plunge		
flux	175	10	W	st. m. d. d. plunge	000 0		

- v. f. gr. siliceous ultrabasic
white to cream to pale grey
green striped, locally w/
med grey horn streaks.

- no idea what problem
was

(SU? - could be

- G.L. says that
where it should sit
stuck.)

STATION #		11821		NT			
				N		E	
lithology				color			
unit				S		strike dip trend	
S		strike		dip		trend	
172		15		W		000 02	

- siliceous ultramylonite as above.
 - striped appearance
 - locally have muscovite
 (SU?) parting

STATION #		11822		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						azimuth down	
						plunge	
S		strike		dip		direct. L	
flux		138		18 SW		165 N	

- same package as last two, but sl. coarser grained
- abundant micaceous (baritic) parting
- looks like was a fairly homogeneous proclitic, could have been a bit granulate or something like that

(SU ?)

STATION #		11823		NTS			
		N				E	
lithology				color			
unit				S		strike	
St?	strike	dip	direct.	L	azimuth down plunge		plunge
	139	24	SW				

thinly layered int. to dk
 grey sl. carbonaceous
 sl. & rusty weath. f. gr.
 of siliceous phylite
 partings

- no obvious lineation

STATION #		11825		NTS			
				N		E	
lithology				color			
unit				S		strike	
						direct	
S		strike		dip		direct	
				L		estimate down plunge	
						plunge	

massive rusty with f. gr.
 dk grey to greyish non-
 foliated volcanic - aphyric

- have a small body (inclusion)
 of highly altered cs. gr. gabbro

STATION #		11826		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- (qv aphyre) ^{volcanic} ~~as above~~ as above
 - rusty weath, pale to dk grey

- locally vesicular.

STATION #		11827		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- narrow layer of f.gv
pale grey marble 1-2 m
thick w/ green fishscale
basalt above and below.
- up ridge from the Ozard
basalt get aphyric
rusty var. foliated rocks.
(T)

STATION #		11823		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
flux _{con}	040	13	NW				

- massive to sheared ARG
basalt w/ "fish" of badly
sheared chloritized
RCA (?) granite.

- as go N on ridge get
contact w/ Talc-
massive ^{locally} feldspar
phyric.
non-foliated med to dk
grey green rusty weath

- some of this non foliated ^{vole} basalt
is hard to tell from the
ARG itself except for
the rare ts or phenos

STATION #		11829		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S _o	strike	dip	direct.	L	azimuth down plunge		plunge
	058	54	Nd				

- dk green pillow basalts
badly altered, but pillows
still intact
- much hematite staining,
but no red chert
- v. minor inter bedded
thinly layered (seeds of 1 cm)
grey chert and tuff
defines bedding.

STATION #		1183		NTS	
		N		E	
lithology			color		
unit			S		strike dip direct.
S	strike	dip	direct.	L	azimuth down plunge
11 sample layer	OSS	13	NW		

- SU thinly layered white to cream f.g. slate and pale green and purplish brown banded calcareous, minor CL. actinolite. Schist bands to 10 cm thick

STATION #		11831		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				azimuth down plunge		plunge	

badly altered dk green
 ARh Basalt
 texturally mixed
 w/ RCh granite.

- may have some
 non foliated & gts
 porph as well. - all
 in badly fractured
 & altered. O/C so
 hard to tell

STATION #		11832		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct
S,	strike	dip	direct	L	azimuth down plunge		plunge
11 up	035	12	NW				

(dry lake)

- sl. to non-foliated
locally pegmatitic mass
granite w/ foliation
screens of bl-fg
gneiss & bl-foliated
schist

- looks like alaskite
sills E of N. lakes

STATION #		11833		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
Hc.1		052		25		SE	
				L		azimuth down	
						plunge	
						plunge	

- thinly layered "streaked" gneiss & feldspathic gneiss, white to cream to dk brown
- abundant biotite partings and bt schist bands.
- go down struct. section into sl. foliated Zirconia granite
- foliation in granite is 11 that in the metagranites.

STATION #		11834		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- V. rusty with massive
 aphyric. mag grey green
 volcanic - locally st.
 vesicular & amygdaloid
 (w/ calcite filling vesicles)

- Some bunch of rx as have
 seen w/ the ARG stuff
 upon nearby ridges -
is definitely not ARG
 tho'

~~XXX FUEL XXX~~

STATION #		11835		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
Sanity	050	32	N				

- Mostly med green & grey-green
f. gr. non foliated volcanic

Same as last Δ

XXX FUELXXX

STATION #		11836		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S1		strike		dip		direct.	
11 c.u.		000		31		E	
		fold		azimuth down		plunge	
		192		18			

- "metabasite package"

- actinolite - plagioclase + chlorite schist

STATION #		11837		NTS			
				N		E	
lithology				color			
unit				S		strikes dip direct	
S, "CL		strike 073		dip 16		direct SE	
				L		azimuth down plunge	
						plunge	

"Striped unit" Thinly
layered quartz & feldspathic
quartzites often w/
micaceous (muscovite)
partings and rare
rarely chert parting

STATION #		11838		NTS	
lithology		N		E	
unit		color			
S		strike		dip	
strike		dip		direct	
down		up		plunge	

— Massive pinkish weath.
 cs-gv. RCA hbl granite

STATION #		11839		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
show	strike	dip	direct.	L	azimuth down plunge		plunge
	030	90	SE				

- highly altered RCA granite (rel. W/S rich) w/ serp & altered ARC (body shales) sitting on top
- foliation given all shear surfaces in the serp.
- have small lenses of RCA granite to 0.5m thick & > 5m long w/in the serp.

XXX End of Day XXX

Edg Fure Lk

run

July 6/88

STATION #		11840		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

massive grey weath. blocky
med gr. non foliated
RCA hbl monite.

STATION #		11941		NTS						
				N		E				
lithology				color						
unit				S		strike		dip		direct.
S		strike		dip		direct.		L		azimuth down plunge
										plunge

rubble & S/C of badly
 altered & fractured hbl
 granite — locally have
 concentrations of serpentinite
 chips in float — probably
 have deep or shear
 zones w/in the granite

STATION #		11842		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S ₀	strike	dip	direct.	L	azimuth down plunge		plunge
?	155	90					

(short traverse down ridge)

- start out in co. grained cpx gabbro (badly altered) then into ratio layered med. to co. grained cpx gabbro w/ good layering measurement as given (scale of 1 → 10 cm) then go through a lot of med gr. gabbro.
- then have a narrow band (fish?) of res. gr. RCA granite, then some badly sheared' alk. basalt, w/ some interlayered med gr gabbro (over)

Then have a narrow band (< 2 m thick) of pale grey fine to med grained marble as a band between dk brn to green weath serp on NE and sheared felsic ARC basalt on SW.

- another 50m down ridge (in cut) have ^(massive) micaceous gto. feldspathic schist and gto. fgs. gneiss.

Note all the units have an orientation similar to that measured in the layered gabbro, but throughout most of the section is a shear fabric.

STATION #		11843		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S flux.	strike	dip	direct.	L min stroke	azimuth down plunge		plunge
	000	22	E		130		10

- traverse down ridge
- start in cs. gr. pink RCA granite
- then into a sequence of thinly banded pale to dk green, variably chloritic "green mylonite."
- This band is locally rusty tan weath, and includes some muscovitic feldspathic gneiss as @ the last rock described @ last Δ
- have a few narrow bands of hyperaugen gneiss -
pink rounded hyper
green

green to tan dia - derived
from RFA granite??

Then down into more
grey to green, locally
~~at the~~ gneiss schists,
locally w/ a fairly well
defined migmatite foliation
(part of meta morphic
pkg.??) - then down into
same green mylonite again
which is compositionally not
to diff. from ARB basalt

1.0m
4.0m

0.5m
1.0m
2.0m
3.0m
4.0m
5.0m
6.0m
7.0m
8.0m
9.0m
10.0m

030/40E

1.0m
2.0m
3.0m
4.0m
5.0m
6.0m
7.0m
8.0m
9.0m
10.0m

STATION #		11894		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S, 11 C.L.	strike 160	dip 50	direct. NE	L	azimuth down plunge		plunge

thinly bedded, rusty with,
pale gray to brown med
grained micaceous gfoite

prob SU

STATION #		11045		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive dk green cs. grained
 completely smp. YMF -
 prob. hard, brittle.

STATION #		11846		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

massive cs. gr. pink weath
RCA granite .

STATION #		11847		NTS				
				N				
lithology				color				
unit				S		strike	dip	direct.
S	strike	dip	direct.	L	azimuth down	plunge	plunge	

chanitized RCA granite

STATION #		11848		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

med gr. isotropic altered
gabbro

STATION #		11849		NTS			
				N		E	
lithology				color			
unit				S			
		strike		dip		direct.	
S	strike	dip	direct.	L	azimuth-down plunge		plunge

chloritized RCA granite thin
 ~ 30m to W on ridge,
 massive Bsp

STATION#		11850		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
flux	015	70	E				

X - dk green thinly layered Kspar
 auger gneiss - looks like
 X Kspars are relict gneiss -
 X v. pink - locally have
 polyfoliated Kspar auger to
 6 cm in length
 - this could be sheared out
 PCA granite - is identical
 to some seen @ D11843

X - upridge (across narrow gut)
 X have abundant float of
 X gabbroic orthogneiss
 v. well foliated & directed,
 leucocratic - looks like
 orthogneiss seen west of
 Fire Lake

STATION #		11851		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
		165		80		E	
				L		azimuth down plunge	
						plunge	

thinly layered pale to dk green
 Ksp (pink) to auger
 gneiss — same package
 as 11850

STATION #		11852		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S ₁	strike	dip	direct	L 11	azimuth down plunge	plunge	
11" comp layer	175	35	E	minor fold core	345	00	

thick layered CO₃, pale grey
 weath. locally rusty and
 pink (dolomitic) ~ 3m
 thick. Underlain by chloritic
 sl. carbonaceous (?) gtzite
 & sil. phyllites, overlain
 by a thick sequence of
 thickly layered, rusty
 carbonaceous gtzite &
 sil. phyllites and
 finally by same rusty
 weath. white sl. micaceous
 feldspathic gtzite - could
 be in part felsic metagrey.

STATION #		11853		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	136	56	NE				

- showed chloritized RC A granite
w/ all variations of shearing
from moderately (but probably
still quite obvious)
to open mylonite

STATION #		11054		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge
	140	56	NE				

- interlayered carbonaceous (mainly)
 Sil. phyllite & chlorite
 & actinolite schist &
 gneiss

STATION #				11855		NTS		
N								
lithology					color			
unit					S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge	
	015	34	SE					

- Thinly layered dk green
Ksp or augen gneiss
(similar to 11851, 11853)
- augen are Ksp & white to
pink.
- rare interbeds to 5 cm thick
of white micaceous feldspathic
gabbro

STATION #		11856		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

- thinly banded well selected
white to med green to
dk gray green micaceous
feldspathic gneiss

- may be related to belt
△

STATION #		11857		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive cs. gr. leucogranite
(< 3% schlierized mafics)
prob related to RCA granite
(pink K-felds, qtz veins)
- further to W get into definite
RCA granite.

STATION #		11958		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down		plunge	
flux	070	51	S				

badly sheared & altered
 mod to ss. gr. gpx
 galenose

STATION #		11859		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down plunge		plunge	

(- hike along scree slide followed by gully)

- all rs. gr. RCA granite in float, w/ dk grey-green, locally rusty weath, non foliated. cpx porphyry - presumably Tertiary

STATION #		11860		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L.	estimated down plunge		plunge

- med gr. gabbro

quick I.D. only.

STATION #		11861		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- rel. felsic (plagioclase)
- Zone w/in the gabbros.
- much shearing
- check for qtz in hand sample

STATION #		11862		NTS			
N							
lithology				color			
unit				S			
		strike		dip		direct	
S	strike	dip	direct	L	azimuth down plunge		plunge

2 gns of massive bull gts
 locally w/ minor chlorite
 locally w/ some malachite
 Cu-stain

- as go S along ridge,
 get into S.R. type
 Hbl granodiorite — has
 finer grained, more hbl-
 rich inclusions as is
 typical

XXX Fuel-up XXXX

STATION #		11863		NTS	
		N			
lithology		color			
unit		S		strike	dip
S	strike	dip	direct.	azimuth down plunge	
Shear	094	12	N		

cs. gneiss ^{sericite} chloritized
 RFA granite overlies onto
 foliated gneiss basalt

STATION #		11864		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

contact (fault) between
met gr. RCA granite to
SE & good cpx
gabbro to NW

maybe! Maybe intrusive!

STATION #		11865		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

massive ss. gr.
bb / fl + diorite (?)

STATION #		11866		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

— massive cs. gr. gabbro

STATION #		11867		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct
G	strike	dip	direct	L	azimuth down	plunge	
flux	130	35	NE		plunge		

- massive ARG basalt w/
local narrow zones of
foliated texture

- to W of small gut have
a v fine grained pale
grey green rock - meta-ty.
aceous chert ??, metabas.
?? (no time !)

STATION #		11868		NTS	
		N			
lithology			color		
unit			S		
			strike		dip
					direct
S	strike	dip	direct	L	azimuth down
	115	42	NE		plunge
					plunge

— micaceous feldspathic gneiss

looks like ⁿ Stuped

unit?

STATION #		11869		NTS			
		N					
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
L		azimuth		down		plunge	

pale green siliceous
 mylonite over thin bedded
 Alb basalt - locally
 festooned

STATION #		11370		NTS			
		N					
lithology				color			
unit				S		strike	dip
S	strike	dip	direct.	L	azimuth down	plunge	plunge
fluxion	030	72	NW	min streak	292		15

- well foliated, well lined
med gr. Hbl granodiorite.

STATION #		11871		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S.	strike	dip	direct.	L.	azimuth down	plunge	
Plux	004	32	W	streak	276	32	

- foliated med gr. S.R.
hbl. granodiorite

STATION #		11872		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
	170	27W			310	25	

- get rare sheared hb / gross
limbs

XX END OF DAY X

traverse S of Money Claims to SiO_2 - CO_2 bodies

STATION #		11873		NTS			
		N				E $\frac{1}{2}$	
lithology				color			
unit		S		strike		dip direct.	
S	strike	dip	direct.	L	azimuth down plunge	plunge	

- massive to d. gneiss bt ($\pm$ musc) granite. Med grained, equigran. pale grey to sl. pinkish grey weath.
- all in large rotated blocks
- rare angular float of rusty weath gte - mica schist & micaceous gte - inclusions?
- in nearby OK foliation is poorly to mod ~~well~~ dev.
- sub horizontal to shallow ($\leq 10^\circ$) NW dips in least-rotated blocks

STATION #		11874		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

platy med gray to sl. rusty
gray weath well foliated
Kyan auger gneiss biotitic
($< 5\%$)

- grain size is quite variable
as is kyan auger abundance
- auger are ~~alt~~ always
present, from 5 $\rightarrow$ 30% by
vol, and 0.5 $\rightarrow$ 1.0 cm
in dia.
- all in S/C

STATION #		11875		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	
11 large large	horizontal						

- Thinly layered ($< 1\text{cm} \rightarrow 1\text{m}$) micaceous feldspathic gneiss, micaceous gneiss and co. gr. bt schist (micaceous)
- in the feldspathic schists the Kyan is often present as flattened auger to 1cm long, 0.3 cm thick

- AC/DC !!

- further to SSW, get some interbeds to 50cm (in w Kyan auger bearing micaceous gneiss) of co. gr. bt - diopside schist - calc. silicate?

STATION #		11876		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S ₁ 11 C.L.	strike	dip	direct	L	azimuth down plunge		plunge
	015	09	E				

- foliation, locally K₂O augen bearing of numerous g₁ slate as above w/ bt and rare bt + diopside schist interbeds
- no obvious lineation developed
- some of the co. gr. bt schist bands contain abundant red garnet to 1 cm dia.

* This part of the section exposed in the cliff is becoming more platy and rusty on weather - would be base of S₄ / top of AC-DC contact from our

STATION #		10877		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S 1?	strike	dip	direct.	L _{min}	azimuth down plunge	plunge	
comp layer	060	08	SE	5 thick	225	04	

- thin interbed (0.8 m) of rusty
weath. sl. purplish, sl. micaceous
qtzite, w/in Kspar augen gneiss
(grey blocky weath) - Kspar
are v. flattened, & rel. f. qtz.
and garnets are v. strongly
foliated qtz + musc ± chlorite

- have rare flattened cpx + eps
as well - this is almost
certainly an orthogneiss

STATION #		11870		NTS			
N				E			
lithology				color			
unit		S	strike	dip	direct.		
Sr?	strike	dip	direct.	azimuth down plunge		plunge	
U.C.	055	06	SE				

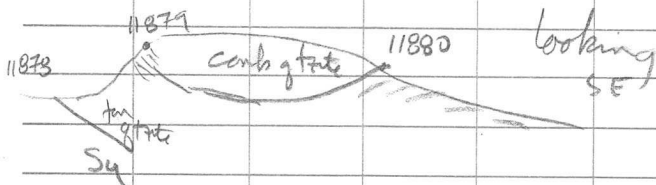
- thick layered, blocky, med gray weath, med gray to gray green micaceous gts w/ lesser mts of feldspathic gts.

- good min streaking lineation dev. (see sample) but can only find in S/C, not in O/C

- along ridge to S w/ (in saddle) get white to pale gray weath feldspathic gts, and med grained orthogneiss w/ relict K-feldspar augen 2 mm

STATION #		11880		NTS	
		N		E	
lithology			color		
unit		S		strike	dip direct.
S?	strike	dip	direct	azimuth down plunge	plunge
11880	170	24	NE ^{min} strike	000	13

- south west limb of a broad synform w/ carb gtzls in core.



- pass lam section into tan to rusty tan locally sh. carbonaceous sl. phyllitic gtzls
 - as go to SW, get back into interlayered carb gtzls & felsic metarocks & white rusty weath gtzls — pluton starts to flare over to E again

STATION #		1188		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S1?	strike	dip	direct	L	azimuth down plunge		plunge
11 C.L.	178	15	E				

- all sl. slumped blocks of dyilitic carbonaceous, f.g. grites & feldspathic grites underlain & (apparently) interlayered w/ well foliated gtz & feldspar augen schist (sheared gtz f.g. porphyry, - prob. a flow or sill)
- DC just down into valley abt.

* Zircos.

(locality is just down ridge and over edge into creek valley from set of claim poles)

STATION #		11882		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
Sill	strike	dip	direct.	L	azimuth down	plunge	
Comp layer	horiz			min steep	plunge	plunge	
					175	00	

- thinly layered pale to med gray to tan to med rusty brown weath. cream to sl. greenish to dk gray phyllitic gtales - narrow carbonaceous interbeds.
- minor feldspathic gtales

STATION #		11883		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S ₁	strike	dip	direct	azimuth down		plunge	
C.L.	025	13	E	min strike		003	02

- as above mined underlies a
mass of sil. carb. altered UMP
(w/ fuchsite & minor talc,
old station from chopper-
hopping)
- rock all of fates &
phyll. g. fates, all rusty
weath ~ 50% are
carbonaceous

STATION #		11884		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S,	strike	dip	direct.	L -	azimuth down	plunge	
1. cu	025	35	E	min	172	03	
				strike			

(re-visit to old Δ)

thinly layered ^{f.g.v.} slates, white to tan to dk grey (carbonaceous), locally w/ phyllitic partings

- overlain by ~ 10-15 m. of med green CL. schist well foliated, def. not a mylonitic fabric, just a good meta

re X fold
- this is overlain (presumably conformably, but is all rubble) by massive fuchsite-bearing silica - carbonate altered UMF

STATION #		11885		NTS	
lithology		N		E	
unit		color			
		S		strike	dip
					direct.
S	strike	dip	direct.	L	estimate down plunge
					plunge

- massive chloritized RCA granite
 This rock is badly altered
 strongly fractured (randomly
 oriented) and badly exposed
BUT is RCA granite in
 spite of all that!

Traverse up section thru Mary Knapp ^{July 19.}

STATION #		11286		NTS	
		N		E	
lithology			color		
unit			S	strike	dip
					direct.
S	strike	dip	direct.	L	azimuth down plunge
flux	086	42	N		plunge

- well foliated pale to dk green mylonite
- locally f. gr. and fairly massive
 - may be Rodringite
- locally have white cpx -
prob. a mylonitized gabbro
at least in part
- as go up section get into
sh. sh. to fishscale
MRC basalt

m

STATION#		11887		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
all fluxion fabric		032		12		NW	
						azimuth down plunge	
						plunge	

thinly layered (scale of 1mm $\rightarrow$ 5cm)
 bands of grey to grey green
 chert in fishscale ALG basalt.

- chert bands are 10 $\rightarrow$ 50 cm thick,
 deformed somewhat (not folded,
 just crumpled.)

- So defined by general orientation
 of undeformed chert layers

STATION #		11888		NTS	
lithology		N		E	
unit		S		strike	dip
S	strike	dip	direct	L	
	050	34	NW	azimuth down plunge	
				plunge	

- thin bedded (scale of 2 → 20 cm)
 fine to med grained white to pale
 green qtz + qtzs & sandstone
 - has narrow layers of chloritic & xcs
 beds interbedded
 - both overlain and underlain
 by ARG basalt - above
 the qtzs appear to be gradation
 into ~~etc~~ thinly bedded tuffs(?)
 ~ 3m thick which then goes
 up into massive ARG basalt that
 gives the impression of being
 pillowed but can't be sure.

STATION #		11889		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- angular float in talus slope below cliff of RCA granite
- see east of pale grey green fine grained siliceous clastic or aphyric volcanic - not Ark type basalt if it is a vol.

STATION #		11890		NTS			
N				E			
lithology			color				
unit			S	strike		dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
fault plane	062	25	N				

- Thrust contact between RCA
 & massive to fishscale
 ARG basalt - separated
 by a zone of f.g.v. green
 (med to dk) mylonite ~10m
 thick - looks like
 is mainly derived from the ARG
 but hard to be sure.

* - just upstream ~100 m from ↑
 have hbl. granite (=RCA) in
 uncertain, but highly irregular
 contact w/ massive, dark weath.
 med grained partly serp.
 diorite (makes up much of

the top of cirque, ~~the~~ along w/ same
 - lying in 4th fieldy diorite & thick layered
 @ 045/55SE d. gabbro

STATION #		11892		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S				strike		dip	
L				azimuth down plunge		plunge	

- gabbro near contact w/ RCA granite
- have irregular small bodies of f. gr. tonalite that have gradational boundaries w/ cs. gr. gabbro over 2-4 cm
- on upper part of slope (on roadside of ridge) have similar relation
- in foot, get cs. gr. leucogranite w/ pink spots v. similar to RCA intruding cs. gr. gabbro.

~~X~~ Zircon

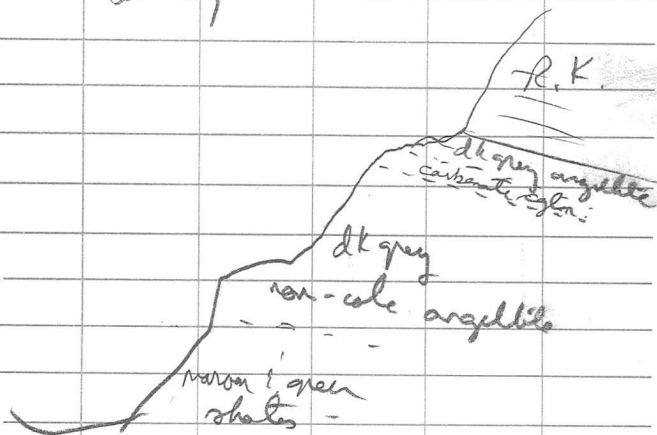
July 26

STATION #		11893		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	azimuth down plunge	plunge	
	135	25					

bedding strikes north & south
 slates overlain by Reddish
 Kettle orange weather, mainly
 laminated dk grey argillaceous
 limestone, in turn overlain by
 med grey weather argillaceous
 limestone

STATION #		11894		NTS			
lithology				N		E	
unit				color			
				S		strike	
				(R.K.)		dip	
						direct	
S		strike		dip		direct	
						NW	
				L		azimuth down	
						plunge	
						plunge	

looking W



STATION #			11895			NTS					
			N						E		
lithology						color					
unit						S		strike		dip	direct.
S						strike		dip		direct.	
S		strike		dip	direct.	azimuth down plunge		plunge			
1		120		41	NE	50/51		015		15	

"Grit Unit" purplish brown to brown and pale grey green weath., well foliated / locally bedding striped argillite-shale. Locally rusty weath.

- as go down ridge to south get into a band ~ 10 m thick overlain & underlain by sl. rusty dk grey shales (non-calc.) of med. to cs. grained gtz-fs per pebbles cglm w/ some flat dk greenish grey shale clasts and a rusty brown weath highly calcareous matrix

STATION #		11896		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				S	154	75	SW
S	strike	dip	direct.	L	azimuth down	plunge	plunge
1	150	56	NE	50	337		03

- calcareous gte qtzs (rusty weath)
- overlain by red gray to orange gray weath thinly laminated sl. calcareous argillite

STATION #				11897		NTS			
				N				E	
lithology				color					
unit				S		strike		dip	direct.
S ₀		strike		dip	direct.	L		azimuth down plunge	
R.L.		160		13	E			plunge	

rusty orange weath ~~at~~ argillaceous
limestone @ base of Rabbit Kettle

- as go up section get into
thinly laminated, wedged
to orange grey weath dk
grey argillaceous limestone
and v. calcareous argillite
- mixed overlying green & green
shales
- around corner of ridge can almost
see shale - Rabbit Kettle contact -
have a zone ~ 15 m thick of
sl. rusty dark grey brown to red.
purplish brown weath shales, locally
sl. hematitic - red-beds?
this unit is v. poorly exposed

STATION #		11898		NTS			
				N		E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	azimuth down plunge		plunge	

(no sample taken)

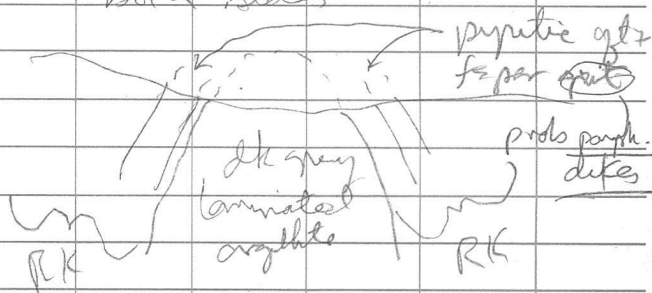
- contact between marian shale below & orange weath arg. limestone on top.
Contact is not exposed.
- no dk grey argillite chips noted in soil

XXX LUNCH XXX

STATION #		11899		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge

- (flagged)

- anticline w/ dk grey
thinly laminated argillite in
core - Rabbit Kettle on
both sides -



STATION #		11900		NTS			
		N				E	
lithology		color					
unit		S		strikes		dip	
		1?		140		11	
S		strike		dip		direct	
		1?		070		11	

medium gray/tan weathering
 finely saccate well foliated
 medium gray ^{micaceous} quartzite
 (probably muscovite + graph?)
 grading into tan to
 orangy cream mass gztites
 which weather rusty due
 to traces of disseminated
 pyrite - These look like
 meta cherts especially the
 medium blue gray rx which
 look like the meta chert
 package seen in Campbell
 range near Finlayson only
 more foliated here - also
 same rx as on Kneil
 claims.

Section includes much cream
colored musc. gte. that
could be cherty tuff but
no evidence - looks similar
to mt at di. lolo natn and
in uppermost of Fortin
ck sheets which are assoc.
with felsic meta volcs.

STATION #		11901		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direction
		13		152		16	NE
S	strike	dip	direction	estimate down plunge		plunge	

~4' thick layer of layered
barite + dolomite(?) underlain
by cream colored rusty
weathering poorly foliated
mass gneisses(?) which
may be siliceous metabasites
but lack gne or feldspar
exps. Barite is underlain
by moderately carbonaceous
siliceous phyllite and
meta cherts as seen
previously.

'Sea layer' may be as
much as 10' thick
(partly exposed) and extends
at least 200'

much of the rusty to tan or
mossy green has a H olive
to yellowish green color
which is similar to rx mapped
as Mt E of Finlayson Lk
and ^{uppermost} 1st Fortin sheet

STATION #		11902		NTS	
N				E	
lithology		color			
unit		S		strike	dip
				109	19
S		strike	dip	direct	L
				azimuth down plunge	plunge

creme to lt grey mic gtsite
 that weathers orange/tan -
 I suspect this is a
 felsic meta volcanic -
 it is identical to rx
 above berke noted
 before. The sequence
 here is

Remainder of
Section eroded

50' +

creme med grey.
 lt grey mic gtsite

~ 100'

Berke ~ 20' thick
 med - dk grey
 slightly carb site
 phyllite - mic
 gtsite

100' +

creme/lt grey
 "mic gtsite" really
 w feldsp. & probably
 gts phnoms.

on E side of ridge see
 rusty flint with gtz phos
 and rarely see rx from
 foliated o/s which are
 lb green gtz rx but
 can see slender feldsp micro
 phynocrysts. rarely -
 also see a possible meta
 andesite / diorite but badly
 altered & not much present.

oops - just beneath this o/s is
 local flint & coarsely xln Barite
 suggesting section really is.

700' +
 4-20'

 felsic meta rocks $\pm$ metachert.
 Barite
 variably
 siliceous grey phyllite -
 gtzite $\rightarrow$ cream mic
 gtzite / metacherts.

STATION #		11903		NTS			
				N		E	
lithology				color			
unit				S		strike dip	
S		strike		dip		direct L	
						azimuth down plunge	
						plunge	

very rusty weathering blocky
 meta(?) igneous rock. Seems
 to be greenish gray & mottled
 when fresh but mostly
 highly weathered and
 rust coated due to
 presence of a few %
 disseminated pyrrhotite

not sure this is part of the
 metamorphic package

STATION #		11904		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				17	038	18	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

have passed through a little
dk grey "carb" micaceous gtzite but
basically been in a package
of felsic igneous rocks which
at this station are quite
obviously both igneous and
metamorphosed. - Rx are
lt grey to white small
gtz phenocryst bearing rx
with matrix that yet looks
like slightly foliated massive
gtz and presumably some
feldspar + minor mica.

020 28 SE 5(?) in dk-med
grey slightly carb micaceous

Strike just up hill.

STATION #		11925		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

in a sequence of mixed
 gtz phenocryst bearing felsic
 intrusives. It greenish
 coarse well foliated musc
 gtzites and dk gray well
 foliated musc gtzite to
 silic carb. phyll - non calc.
 minor interlayered gtz
 + felsic volc frag (?) bearing
 gr. f to coarse ss. - some
 bluish gtz.

STATION #		11906		NTS			
				N		E	
lithology				color			
unit				S		strike	
				1		072	
				dip		36	
				direct.		NW	
S		strike		dip		direct.	
Z		270		12		N	
				azimuth down		plunge	

felsic metavol? - cream to
 lt green mass "glaite"
 with gte eyes - phyllonitic
 in layers as much as
 50' thick overturn!
 underlain by dk grey
 silic. phyl. >> gte bearing
 polymict ss

Some felsic metavolcs may
 actually be gte rich sandstone
 layers - see sample

a little up section the
 grey silic. phyllite is interlayered
 with substantial greenish
 fine gte ss - grit that
 looks like Broadview/Bagle

Bay Sm.

182/156 S, 115, ~ 200'
up hill

in thin bedded
lt grey phyllite and
green gbs ^{fine} ss = gbk

STATION #		11907		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				110	000	24	E
S	strike	dip	direct.	L	azimuth down plunge		plunge

dike (?) of green/white/
 pinkish mottled well sorted
 gtz ksp play chl meta
 igneous rock which has
 definite affinity to
 Simpson plutonic suite
 intrusive into gtz ss →
 pebble cong with interbeds
 of grey variably siliceous
 non calc phyllite. part
 of same pkgs as top
 of knob to N and
 that started getting
 into above felsic
 units volcs - same pkg
 as west of camp?
 where cut by RCN granite?

STATION #		11908		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
		1?		143		25 NE	
S	strike	dip	direct.	L	azimuth down plunge		plunge

1st greenish gray foliated
 quartz feldspar crowded
 porphyry. - no real question
 these rx are metamorphosed
 but there are specimens presumed
 to be from flow cores which
 have little foliation.

greenish gray T1 seems to
 overlie a rusty weathering
 orange tinged porphyry.
 1st 9T here has minor py.

not sure these rx are porphyry
 could be gneiss or xtal
 feld.

STATION #		11909		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	
				13	105	35	N
S	strike	dip	direct	L	azimuth down plunge		plunge

coarse gtz feld more mod
 well foliated probable
 felsic rock or shallow
 intrusive - weathers
 to white brown, lichen
 covered mounds ~200'
 in diam, 50' high

appears to be overlain by
 rusty weathering well foliated
 extreme to white (fresh) gtz
 porphyry.

Every porphyry I've seen
 up here is quite noticeably
 foliated.

STATION #		11910		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				1?	105	24	N
S	strike	dip	direct.	L	azimuth down plunge		plunge

green chlorite gtz clast rich
grit or possibly ~~rock~~ xtal
trbb.

Similar to 11909

~500' to W encountered cherty
local flat of meta andesite?
which seems to be a minor
unit beneath these "grits"

to east the grits look like
crystal trbb and I suspect
both lithologies are present.

STATION #		11911		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1?	110	44	N
S	strike	dip	direct.	L	azimuth down plunge	plunge	

rust tinged tan weathering
well foliated to greenish cream
also metabasaltic (gbs etc.)
more phyllite)

overlain by white
weathering silty gte
porphyry locally with
dominant foliation in
crumpled cleavage

Finish Grass Lks for now.

STATION #		11912		NTS				
		N				E		
lithology				color				
unit				S		strike	dip	direct.
				1?		160	24	NE
S	strike	dip	direct	L	azimuth	down	plunge	plunge

poor rdy on strongly foliated & doubly foliated med-dk gray s.lky, siliceous phyllite and interlayered fine ~~grained~~ sil. olive green siltstone to fine ss. -

Top(?) of unit contains distinctive flattened conglom with mottled foliation surfaces.

Seems as though this unit must underlie the rusty gte porphyry unit.

118/35 N S₂ ~ 500' down hill in "sheared" (flattened) congl.

Start Loc 1 Pp.

STATION #		11913		NTS		104P	
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	110	70	W
S	strike	dip	direct.	L	azimuth down plunge		plunge
64	075	42	SE				

thinly layered to laminated
 set mostly plane layering
 in 5" scale - tan to
 medium grey brown weath.
 Fine grained limestone
 probably silty (but ?)
 medium grey fresh - may
 be somewhat chloritic
 in places.

STATION #		11914		NTS		104P	
N				E			
lithology				color			
				S	strike	dip	direct.
				0	135	50	-
strike		dip	direct	L	azimuth down plunge		plunge
1	305	50	NE				

rusty tan to orange tan weath
 thickly laminated argillaceous
 limestone with a few beds
 of lt tan weath silty to
 finely sandy limestone interbedded
 - very fine grained almost
 lithographic but has a good
 medium folia cutting layering

some common thin beds of
 brown CO_3

may be some dark shale below
 of

STATION #		1195		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				1	080	60	N
S	strike	dip	direct	L	azimuth down plunge	plunge	
0	080	230	5	1	080	00	

It - tan to gray weathering
 fine grained finely laminated
 platy and probably is argillaceous
 but also may be silty but
 can't see grains but weather
 in relief on weathered
 surface in some beds not
 at all in others which are
 the more argillaceous layers

STATION #		11916		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
\$	strike	dip	direct.	L	azimuth down plunge		plunge

massive slightly blue-medium
 grey weathering medium
 brownish grey fresh limestone
 with abundant conchoidal
 masses of medium grey
 brown weathering medium
 grey cherty silicates lined
 with calcareous veins. Nodules(?)
 weather out in relief.

STATION #		11817		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	140	45	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

medium tan-gray weath
 thin bedded to laminated
 very fine grained grey brown
 limestone (silty micrite?)
 Similar to Keokuk but
 Not very argillaceous -
 inter layered with similar
 rock which lacks lamination
 but quite similar otherwise
 (homogeneous? homogenized?)

no metam foliation $\Rightarrow$ no
 argillaceous component??

STATION #		11918		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	113	57	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	045	26	SE				

very finely laminated
 bedded dark grey shale -
 from core - ofc is
 bed with orange weather
 detrital veins!
 crackle bxa along
 small faults.

STATION #		11919		NTS			
N				E			
lithology				color			
silty arg. lt				m. grey			
unit		S	strike	dip	direct.		
60K		11/0	352	59	E		
S	strike	dip	direct.	L	azimuth down plunge		plunge

orange-tan weather thin
bedded silty (?) mud grey
micrite and argillaceous
micrite

STATION #		11920		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
?							
S	strike	dip	direct.	L	azimuth down plunge		plunge

Dark grey non calc phyllite
 with interbeds of orange
 - tan to med grey weath
 slightly calcareous & possibly
 dolomitic dk grey siltstone

overlain by tan/wh thin bedded
 calc siltstones which are
 like interbeds in the
 dk grey sh - they are
 dk grey brown on the freshest
 surf available - seem to
 have trilobite debris

Not like last stop - seem
 to be interbedded with
 dk grey sh but can't get to
 the shale.

STATION #		11921		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct		azimuth down plunge	plunge	

Fine grained medium grey
 carbonate - cant tell if its
 ls or dol as is lined
 with calcite veinlets -
 on weathered surface have
 what looks like amorphous
 silicate bodies but cant get
 a fresh piece to confirm
 what they are - dont really
 look like chert - may
 be dolomite but ?? - do seem
 to be patchy dolomitized
 parts which x cut bedding
 and may be some small
 chert nodules.

may be some silty beds to
 fine sandy beds -
 5.4.4. rt.

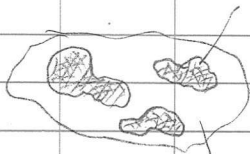
STATION #		11922		NTS			
N				E			
lithology				color			
calc gtz ss				cream - off white			
unit				S	strike	dip	direct.
Atan?				0	030 - 020	45	SE
S	strike	dip	direct	L	grain with down plunge		plunge

medium to coarse grained
highly fractured & veined
gtz sandstone - slightly
calcareous - weathers
it from wet is
cream colored when
fresh.

fairly well sorted - well
rounded grains - grain
support - appear entirely
gtz - may be x bedded
but lots of confusing
veins

STATION #		11423		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
		azimuth down		plunge			

same rx as '21 - appears
to be a dr-dolomite - heavily
calcite veined & fractured.
no relief except around
patches may be dol rest
is 1st
massive rocks.



dk whetw patches
- family xln
gay dals.
weath dk gay
i characteristcally
have low weath
cokete vintaleps

uniform with
(14 gyl) fine grained
15.7 - massive lower
Klunkts

STATION #		11924		NTS			
				N		E	
lithology				color			
SS				dk grey brn			
unit				S		sfrike	
Ca??				0		112	
				dip		60	
				direct.		N	
S	strike	dip	direct.	L	azimuth down plunge		plunge

thin bedded tan w gtz
+ Feld^{1/4} lithics (?) sandstone -

fine grained ~~is~~ difficult to
judge sorting - ~~looks~~ slightly
calcareous

fresh color is dark grey brn.
SS ranges to cream fresh.

underlain by irregularly
platy med - dk grey brn
lst w abundant brachs

some very large & well preserved
lst interlayered with
dk grey sh.

STATION #		11925		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	107	80	N
S	strike	dip	direct.	L	azimuth down plunge		plunge

medium slightly brownish gray
 thin bedded micrite - could be
 silty but can't be sure -
 weathers orange tan -
 not particularly argillaceous.

has some gray & orange weathering
 beds

STATION #		11926		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	120	45	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

white to cream, lt grey, with
 very calc & strike to ^{m.} grey brown
 irregularly platy, finely sandy
 lst with 2 abls brachs.

~~Some~~ gtoctis grade to
 sandy brecciated lst rich
 in brachs.

minor black ~~bl~~ shale.

platy lst & brachs same
 as 11924 but ~~in~~
 brachs are not cherty in the
 lst.

STATION #		11927		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				2	187	77	W
S	strike	dip	direct.	L	azimuth down plunge		plunge

red grey brown silicified bioclastic
wackestone - has silicified
fauna of brachiopods and horn
corals may be some
bryozoan - thin to medium
bedded - not sandy but only
saw few 10's of feet
of section.

overlain struct by 14
grey wacke red grained
to coarse grained rextallined
ls.

STATION #		11928		NTS			
				N		E	
lithology				color			
unit		S		strike	dip	direct.	
		1		145	80	SW	
S	strike	dip	direct.	L	azimuth down plunge	plunge	
				1	145	03	

S₀ ~ L₅

thinly bedded lt grey and
 lt tan w grey brn
 fresh micrite - not
 argillaceous - seems to
 be same unit as 11925
 some beds have distinct
 lower bdy and fuzzy top suggesting
 grading with tops up.

probably Kechika

STATION #		11929		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

thin bedded to laminated
 med grey brn mica exactly
 same as 11928 similar to
 11925 and apparently the
 host to the massive CO_3
 "ruffs"

has a bit of the grey
 & orange with beds.

STATION #				11930		NTS				
				N		E				
lithology				color						
unit				S		strike		dip		direct.
S		strike		dip		direct.		L		azimuth down plunge

platy dark grey weakly
calcareous siltstone with
a few interbeds of dark grey
fg 3t2 + lithics ss.

125/37 NE av S₀

105/45 NE S₀ ~ 500' down section

ss become mud gained
d lt grey locally - clastic
sequence underlain by
lenticularly to almost nodular
bedded grey brn silty ?
lst with abundant
branch trash

minor interbedded black
silty(?) ribbon chert.

STATION #		11931		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
EOK				07	110	90	
S	strike	dip	direct.	L	azimuth down plunge		plunge

thinly bedded orange
 weathered mud gray to
 brownish gray micritic
 possibly silty - not
 identical to 11925
 etc but similar.

probably kachika and
 has a bit of the orange
 gray stained weathering

overlain at least
 structurally by NE dipping
 sand of Mississippian(?)
 rocks as at last stop and
 11926.

17 Aug

STATION #		11932		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
UDM							
S		strike		dip		direct	
L		azimuth down		plunge			

010 / 15 E
200 / 21 E } S. 11 S,

black non calc shales and
black chert to porcellanite
has weathered out nodules
of something but not
sure what.

Negative reaction to
zinc zap, nothing
very heavy.

may be some chert
enough but nothing else
due to weathering - ^{doubt the congl}
probably all ^{chert}

suspect this would be
general weathering if there
were a better op

North of drop off is a soft
 dk gray to black silty shale
 with characteristic brown
 rusty coatings on the foliation
 - suspect this would weather
 brown on a steeper slope not
 gunsteel.

Feel this is vDNA sequence
 but see no proof.

STATION#		11933		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
?				?	102	45	S
S	strike	dip	direct.	L	azimuth down plunge		plunge

med bluish grey weath
fine grained medium grey limestone
of has a slight platiness
in parts which may be S, or
So

STATION #		11934		NTS			
N				E			
lithology				color			
unit		mAn?		S	strike	dip	direct.
				0?	155	90	±
S	strike	dip	direct.	L	azimuth down plunge		plunge

white weathering came fresh to it
 but fresh fg sandy 1st or calc
 ss to possible finely xln dolomite
 hard to get fresh surf

STATION #		11935		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
P M.							
S	strike	dip	direct	L	azimuth down plunge		plunge

White wealth massive highly
fractured meta chert or silicified
rock of some sort. Seen in
Watson Lake, at CN tower,
possibly on airport road and
in an oc on Liard river
near Hyland. Riv.

098° trend of glacial
stations.

STATION #		11936		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
we???							
S	strike	dip	direct.	L	azimuth down plunge		plunge

rubble but no o/c of orange
 weath dk grey calc siltstone
 soil is dk grey and rx
 may be same sequence as
 11920

STATION #		11937		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
mE ???				1	140	85	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

platy dk brownish gray
calc siltstone - faint
so lamination but generally
not bedded.

Thinly undercut
not like Kachika more
like the underlying siltstones
assoc w dk sh at 11920
with med brn - tan.

STATION #		11938		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
ME 222				110	333	40	NB
S	strike	dip	direct.	L	azimuth down plunge		plunge

blk to dk gray platy
 calc siltstone - weathers
 lt tan at top of d/c

similar to last stop but
 darker and possibly partly
 because it wasn't as
 weathered, - same package
 at least but probably is
 a bit more carbonaceous.

STATION #		11939		NTS			
				N		E	
lithology				color			
unit				S		strike	
P						dip	
						135	
						72	
						direct.	
						NE	
S	strike	dip	direct.	L	azimuth down		plunge
					plunge		

medium gray ls - med
grained - may be a grainstone
~~not~~ not well layered or
laminated but has a
distinct platiness - not
seen before.

STATION #		11940		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
EOK							
S	strike	dip	direct	L	azimuth down plunge		plunge

It brownish grey to
 lt tan weather
 phyllitic med grey micrite
 similar to Keokuk -
 grades to calcareous (?)
 locally weather phyllite.

STATION #		11941		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
mDm ?							
S		strike		dip		direct.	
				L		plunge	

massive fine grained
dark gray ls. -
not bedded - not
fossil - no fossils.

heavily fractured and
veined with white
coarse calcite -
weath. mud gray,
rubby

18 Aug.

STATION #		11942		NTS			
		N				E	
lithology				color			
unit				S		strike	
EOK				0		035	
						dip	
						25	
						direct.	
						NW	
S	strike	dip	direct.	L	azimuth down plunge		plunge

Thin bedded mud grey /
lt tan striped weather
mud grey micrite -
minor laminar bedding within
thin beds.

S₂ idg is good average for o/c

lt tan weather grades to
lt orange tan.

Same unit as 11928 11930

10. good Kachilua

STATION #		11943		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
lea		d		113	18	S	
S	strike	dip	direct	L	striations down plunge		plunge

fine grained cream to very
light tan ~~the~~ gte ss.

weathers to gray tan and
finely blocky versus platy
to phyllitic of EOK.

well sorted, grain support,
well rounded grains.

seems to be calcic cement
but look to be particles
of S. l. cement in
d/c.

Typified by
irregular laminar bedding on good
exposure but think bedded

to massive overall

slight tendency towards orange tan
weath.

STATION #		11944		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
EOK				O	005	65	W
S	strike	dip	direct.	L	strike down plunge		plunge

med grey platy micrite -
 blocky, bedded with common
 internal laminations -
 could be silty - weathers
 medium grey to tan grey
 with a few orange tan
 speckles but not stopped
 weathering - same
 unit as 11942.

Bedding almost ribbon
 bedding style but doesn't
 really have argillaceous
 partings just slightly
 more recessive. CO_2 perhaps
 a bit more argillaceous.

STATION #		11945		NTS			
				N		E	
lithology				color			
unit				S		strike	
SDa or Sss				0		096	
						dip	
						68	
S				strike		dip	
				direct. L		azimuth down plunge	
						plunge	

platy undulating gray brown
 calcareous siltstone with
 dark organic rich
 laminae at 1 mm
 intervals. - platy
 stuff identical to platy
 Askia - overlain by
 more massive rock of
 similar character which
 contains a few brach
 frags

siltstone appears to be
 micaceous

STATION #		11946		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	342	51	W
S	strike	dip	direct.	L	azimuth down plunge		plunge

dark gray laminarly bedded
(bedded) calcareous siltstone
good ~~not~~ slaty cleavage

also present is a yellow-
orange weather dark gray
non folial limestone
(perhaps dolomite) which
is faintly similar to dark
weather rx but quite blocky
- also has laminar bedding

may be related to last of
the dk siltstones seen
yesterday (ie 11936, 37 + 38)

STATION #		11947		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	140	68	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge
				1	147		32

medium gray laminar to
bedded phyllitic units of
Kachikan gp. - prominent
S, folia with S x S lamination
- looks somewhat undeveloped
to wavy foliation development
can't get clear S sheet
clips.

weathers med gray + phyllitic
platy on N facing exposure -
orange tan on S facing
exposures across ck.

STATION #		11948		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				11/0	102	37	N
S	strike	dip	direct.	L	azimuth down plunge		plunge

dark grey shaly siltstone and
irregularly laminated calcareous
siltstone. like 11945 -

one 2" thick bed of COK
like micrite -

also float of lg gr ss
seen.

beds could be stobby clast
as hard to trace more
than 3' despite good
exposure.

STATION #		11949		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	125	70	SW
S	strike	dip	direct.	L	azimuth down plunge	down plunge	

cream colored calcareous
 gtz ss with brachiopods
 frags and dark gray
 fcl, & bioclastic wackestone
 (crinoids + brachiopods + bryozoan
 + corals(?))

ss are fine grained mainly gtz
 + shells

2 rx grade into one another
 through a pink wacke fossil
 calc bioclastic siltstone -

most crinoids have small
 ossicle + single ax canal but
 one has star shape suggesting
 possible index age.

STATION #		11950		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				110°	135	36	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

orange ~~tan~~ weathering phyllitic
rocks probably part of Kechikan
too weathered to get a decent
surface but look to be grey
brn phyllitic interite - look
most like ~~rock~~ on weath
surf which is similar to
11947 but bright colored here
not grey.

STATION #		11951		NTS			
				N		E	
lithology				color			
unit				S 0		strike 103	
						dip 54	
						direct N	
S	strike	dip	direct	L	azimuth down plunge		plunge

dk grey med xln fctd
slightly brecciated dolomite.
medium bedded from distance
massive close up.

drab weathering in shades
of mid-dark to lt grey.
some weather to striped
dk & lt grey esp where
brecciated.

(S₀ dips SW on other side
(NE) of ridge from a dist)

STATION #		11952		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
CO k				17	128	76	SW
S	strike	dip	direct	L	azimuth down	plunge	plunge

homogeneous foliated, blue gray
fresh med 17 gray weath irregularly
platy 1st.

associated with typical facies
w med gray fresh phyllitic
(nodular) micrite like 11947

not seen the more massive
rx before but must be
behlken

STATION #		11953		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
MDM							
S	strike	dip	direct.	L	azimuth down plunge		plunge

med xln med gray fctid
massive dolomite - weath
dark gray.

essentially identical to 11951
o.s no samples - not biolastic
here but poor exposure.

STATION #		11954		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	148	20	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

lt grey to lt tan weath
fine - med xln dolomite -
medium bedded.

approx S₀ 140/20 SW

sparsely crystalline.

Differences from McDame :

Finer grain size

not bedded

lighter colored

less variable across bedding

STATION #		1955		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

mud and dk grey mudst
 respectively mud + dk
 grey fine - mud xln ± fctid
 dolomite with minor
 interlayered gts ss.

STATION #		11956		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
COR							
S	strike	dip	direct.	L	azimuth down plunge		plunge

med grey micrite - and
phyritic micrite - weathers
to orange / gray stripes.

good EOR

Flint only.

August 19 1981

STATION #		11957		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	305	10	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

thin bedded med grey
micrite with internal
lamination - weathers
14 tan with some
orange + grey stripes on
weathered surf.

STATION #		11958		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	140	80	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

cream colored - 14 ft
weather calc. Fg gtz ss

underlain by platy 14
to 20 ft weather calc
gtz ss → siltstone like
platy calc or sil. ss.

some white non calc orthoqz
etc and black chert or sil
cherty clastic also present

STATION #		11959		NTS			
lithology				N		E	
unit				S		color	
S		strike	dip	direct.			
1		087	55	5	L		
		plunge		plunge			

STATION #		11959		NTS			
lithology				N		E	
unit				S		color	
S		strike	dip	direct.			
1		087	55	5	L		
		plunge		plunge			

STATION #		11959		NTS			
lithology				N		E	
unit				S		color	
S		strike	dip	direct.			
1		087	55	5	L		
		plunge		plunge			

thin bedded med gray
micrite - weathers to
orange + med gray stripes
is good kachikar,

STATION #		11950		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	094	20	S
S	strike	dip	direct.	L	azimuth down plunge	plunge	

platy calc siltstone
 as in basal SDu. -
 has fine color lamination
 even thin orange tan -
 overlain by lt tan -
 and tan w calc streak
 with salt x seals.

102 / 45 S better so

Same rx as 11958

STATION #		11961		NTS			
N				E			
lithology				color			
unit				S 1	strike 115	dip 67	direct. SW (av. rdg)
S	strike	dip	direct.	L ₁ S, Xs.	azimuth down plunge 110		plunge 13

phyllitic mud gray to orange tan
w. kechikan argillaceous
(phyllitic) micrite.

seems to be underlain by
black to dk gray silty non
calc sh with interbeds
of rusty orange weather
shaly siltstone with
well developed laminar
bedding

former rx identical to st o/e
of kechikan seen yesterday (119)
later not distinctive but similar
to dk sh in ck and on ridge
to S of here.

not much like dlc. rx
seen to date in Miss
Smith

STATION #		11962		NTS			
				N		E	
lithology				color			
unit				S		strike	
				O		335	
						75	
						SW	
S		strike		dip		direct.	
				L		estimate down plunge	
						plunge	

grey & lt orange tan striped
 weathering mud grey platy
 thin bedded micrite silty? with
 prominent internal lamination

good FO foliation

STATION #		11963		NTS			
		N				E	
lithology				color			
unit				S		strike	
				0		dip	
						118	
S				strike		dip	
						70	
				direct.		SW	
L				azimuth down		plunge	

- lith

STATION #		11964		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct	
				0		140		45		SW	
S		strike		dip		direct		L		azimuth down plunge	
1		125		80		NE					

1. Ho -

gray & orange tan
striped platy mud grey
matrix of EO
karstified

STATION #		11965		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				0	146	80	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

med brn fine-med grained lt
 grey weath limestone - moderately
 bedded. has irregular cherty
 lenses and blobs along S_0

142 62 NE S_0 at pickup

lst appears to be a basaltic
 gneiss - but can't recognize
 fringes - some possible crinoid stems

chert actually seems to be
 thin S_2 -

STATION #		11966		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	195	10	W
S	strike	dip	direct	L	azimuth down plunge		plunge

interbedded black platy calc
siltstone, black shale and
light colored carbonaceous
gtz. - minor float
of black chert

some mud to blk grey gtz
ss as well. - could be
the basal Mississippian
pkg as similar to rx seen
in Turnagain River

STATION #		11967		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

platy black calcareous siltstone.
 finely laminated.

STATION #		11968		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				6	170	20	W
S	strike	dip	direct	L	azimuth down plunge		plunge

dk gray lg sparsely fossiliferous
limestone - medium bedded. -
has partings of soft dk gray
~~interbedded~~ ~~stale~~ shale
probably a fine grained stone
but not sure.

The one fossil apparent to be
a brachiopod
slightly foliated

STATION #		11969		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				O	130	74	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

medium to dark grey fine grained
 fossiliferous limestone = weathered
 soft shows amygdaloid masses of H. tan
 weather in a sea of med grey weather.
 There are also chert nodules.
 The lt tan weather rock is
 a finer grained darker grey
 lat.

that is fine grained and
 lacks the thin even bedding
 of Kachikan

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STATION #		11970		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	147	45	W
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	132	80	W				

medium grey bn weather
 med-dk grey bn on relatively
 fresher surface weath. dense
 coarse slate with interbeds
 of ^{laminated} fine grained tan weather
 (no fresh) ^{calc} gtz ss.
 ~5% 2% ss beds

slate is thin bedded and
 prominently bedding
 striped - can't get a
 fresh enough piece to
 be sure its calc. or not
 seems as though only the
 dense is calc.

slate is actually a slaty
 siltstone with fine lamination
 GS RR ?? UDM ?? Rs??

STATION #		11971		NTS			
N				E			
lithology				color			
unit				S		strike	
Ag				0		150	
				dip		35	
				direct		SW	
S	strike	dip	direct	L	azimuth down plunge		plunge

white massive gte ss -
moderately sorted - non
calc - mod well rounded
grains - pure gte no chert
or lithics.

underlain by ^{dill} olive green
non calc well foliated ss
fine gte ss to siltstn
with no bedding preserved
only a unburn folia
which dips steeply SW.

STATION #		11972		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
1E?				0	158	40	NE
S	strike	dip	direct	L	azimuth down plunge		plunge
1	142	69	NE				

thinly bedded striped and
 brown mottled medium
 and dark grey non calc
 phyllite - sfc is heavily
 base covered but is
 one non calc with
 the exception of a few
 thin beds of olive green
 calc browned s.lts. fow.

STATION #		11973		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
Silt.				0	122	82	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	172	35	E				

platy 4 tan/med grey
laminated dolomite
gtc siltstone -
weathers sandy tan
and platy.

also some that
appears extensively
beveled

⇒ Silty siltstone.

seems micaceous.

some siltstones are dk
grey & not laminated
probably not calc

STATION #		11974		NTS			
				N		E	
lithology				color			
calc phg				gray			
unit				S		strike dip direct.	
EOK							
S		strike		dip		direct. L.	
						azimuth down plunge	
						plunge	

dark to med gray
phyllite with interbeds
of med gray phyllitic
laminated micrite creating
tan to orangey tan.

good Vandyke 1.00 = EOK _{exhibits}

also interbedded calc & t
siltstone. - med gray.

STATION #		11925		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
Hg ???							
S	strike	dip	direct	L	azimuth down plunge		plunge

fine to med grained foliated
 but otherwise massive
 dk-med grey ^{calcite} med weath
 med blue grey + blacky.

~ horizontal foliation

non diagnostic - probably
 sub unit as a fair amount
 of questionably local Hg
 just that around

STATION #		11978		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
Ag ??							
S	strike	dip	direct	L	azimuth down plunge	plunge	

prominent rusty knob. -

appears to be same carbonate
as last stop assoc with
orange with fersan
carbonate - could be
dolomite but heavily
calcite veined.

no S = seen.

Ag Flat here too.

STATION#		11977		NTS			
				N		E	
lithology				color			
unit				S		strike	
Hq				1		055	
						dip	
						67	
						direct	
						NW	
S	strike	dip	direct	L	azimuth	down	plunge
				1	2055		20

microon to purple and
green sh with interlayered
g b z 55. which is green
fine grained or white
and med - fine grained
only weakly calc.

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STATION #		11978		NTS			
N				E			
lithology				color			
unit		Ov or Hgv?		S	strike	dip	direct
				1	335	50	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

It is med. olive green metabasaltic
rocks - well foliated - mainly
appear to be tabular to blocky
with frags to several inches
across of white weather amygd
intervein. - could be Ordovician
as looks like Manx or
could be Hg volcs.

STATION #		11979		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
H _g				1	010	75	W
S	strike	dip	direct	L	azimuth down plunge	plunge	

It - mud olive green
 3rd member of Galt
 unit. non calc.

interlayered with
 gray to grey green
 bedding striped phyllite
 which is dirty but
 appears non calc.

STATION #		11980		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	038	60	NW
S	strike	dip	direct.	E	azimuth down plunge		plunge

2 able rdg on S₁

heavily carbonated
orange tan weathering
shiny green gte wacke -
so carbonated that
it's hard to get a
good ID but all
pieces broken have
gte grains - overlain?
and interlayered with
med grey med-fine
sh mbl. - lower
part of o/c are definitely
gte wacke where
less carbonated.
appears to be underlain by
mbl brs - here it's very
fine grained med grey

STATION #		11981		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
EOK							
S	strike	dip	direct.	L	azimuth down plunge		plunge

Rubble only of H grey
 with phyllitic matrix
 to calc phyllite. - med
 grey fresh.

STATION #		11982		NTS			
				N		E	
lithology				color			
unit				S		strike	
Hg??				1		32	
						dip	
						40	
						direct	
						SW	
S		strike		dip		direct	
						L	
						azimuth down	
						plunge	

med grey unbedded but well
 laminated slightly to iron
 calc siltstone - weathers
 white with rusty tinges

weathers slightly greenish
 grey on partly weath
 surface perhaps suggesting
 its part of Gort unit.

Not terribly dissimilar
 to Fg ss - siltstone interbedded
 with maroon + green
 phyllite but don't see
 either of those lithologies
 here.

STATION #		11983		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
		1		340		10	
						direct. NE	
S		strike		dip		direct	
				estimate down		plunge	

soft med gray to very
slightly greenish gray
thin calc siltstone
with interbeds of
dk gray to black
carbonaceous phyllite to
siltstone - former
rock like a finer
equivalent of or at
least of

Rose bushes! shitfull place

STATION #		11984		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	333	90	
S	strike	dip	direct	L	azimuth down plunge		plunge

It brown to off white
rust tinged weathering
thin-laminarly bedded
Fg gr. red slightly
carbonaceous sandstone.

seems to be interbedded
with dk grey slaty siltstone
judging from float but
no sp of same - some
laminated siltstone may be sil. interaceous.
may be same unit as
last 2 stops but ? - weak
affinities to Silurian siltstone
but not right on - could
be Triassic

STATION #		11985		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				0	070	26	5
S	strike	dip	direct	L	azimuth down plunge		plunge

medium bedded med
 grey to dk-med grey non
 calc soft siltstone to
 fine grained sandstone -
 clasts seem to be mainly
 8 to - generally homogeneous
 except one specimen with
 a wispy lamination
 involving med grey siltstn
 & dk grey shale which
 looks burrowed - poor
 example however - see
 lots of dk grey shaly chips
 on lake shore but none
 present in this of except
 as noted where it is minor
 May be same sequence as

STATION #		1986		NTS			
lithology				N		E	
unit				color			
				S		strike	
				0		dip	
				20		45	
				direct.		E	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

poor rdg on av S₀

black ribbon bedded chert
to porcellanite - almost has
good conchoidal fract. -
classic ribbon bedding

⇒ VDM?

STATION #		198		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S		strike		dip		direct	
L		azimuth down		plunge		plunge	

dark grey ribbon porcellanite
 → chert

⇒ JDM

STATION #		11988		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				1	095	35	S
S	strike	dip	direct.	L	azimuth down plunge		plunge

gray to gray brown in
relatively fresh surf - with
color mottling suggestive of
burrowing - slightly dolomitic?
siltstone - homogeneous but
well foliated - very similar
to the pkg seen in stns
11982 - 11985 - lacks the
characteristic platy bedding
usually seen in sil siltstn.
weathers orangy tan.

has a wavy foliation similar
to that at 11982.

STATION #		11989		NTS			
lithology				N			
unit				color			
S		strike		dip		direct.	
1		345		53		SW	
S		strike		dip		direct.	
1		345		53		SW	
L		azimuth down		plunge		plunge	
L		azimuth down		plunge		plunge	

med grey very slightly
chromatic siltstone - generally
not bedded and weathering

14 green grey to orange - tan
but part of o/c is
thin to med bedded with
internal laminar and
slump folds in the
larger bed forms - same
rx as 11988 etc - still
not exactly s.l. sltstr
nor is it particularly close
but maybe that's the best
word.

STATION #		11990		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				1	118	15	NE
S	strike	dip	direct.	L	azimuth down plunge	plunge	

dk grey to black slaty
 silty to silty slate -
 not terribly different
 from soft grey phyllite
 down at Cirque

much darker & more
 argillaceous than the
 previous 2 stops

23 Aug 51

STATION #		1991		NTS			
				N		E	
lithology				color			
unit							
		S		strike		dip	
		0		000		55	
S		strike		dip		direct.	
				azimuth down		plunge	
				plunge			

S. 2 m. rdy on par
 'variably oriented bedding

black ribbon chert →
 pore.

STATION #		11992		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	132	40	SW
S	strike	dip	direct	L	azimuth down plunge	plunge	

med grey med bedded
 siltstones - minor
 frams bedded; py.
 non calc - non dolomitic

STATION #		11993		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				17	000	10	W approx
S	strike	dip	direct.	L	azimuth down plunge		plunge

same siltstone pkg - here bedding is destroyed by a shallow ^(10°) SW dipping unkm. foliation

Rx are med gray to dark gray with the darker rocks being very subordinate - they are argillaceous carbonaceous siltstone that wouldn't be out of place in the VDM but are so minor here as to be of almost no consequence (<5% of c rock)

Med gray rocks are massive and dolomitic and weather to drabgy tan to med gray small py blobs (1/2" diam biggest) locally

STATION #		11994		NTS	
		N		E	
lithology			color		
unit			S		
			strike		dip
			000		65
					direct. E
S	strike	dip	direct.	L	azimuth down plunge
					plunge

black ribbon chert / porcellanous

STATION #		11995		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	340	26	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

med grey brownish (mottling
in dk greys) tan weathering
to orange tan with
sparsely abundant
siltstone -

wavy foliation as
seen elsewhere

STATION #		11996		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	170	65	E
S	strike	dip	direct.	L	azimuth down plunge		plunge
				1	334		34

soft black non calc silty
 s linto - beakling shaped
 1" - 2" flake beds

STATION #

11997

NTS

E

N

lithology

unit

S

strike

dip

direct.

S

strike

dip

direct.

L

azimuth down
plunge

plunge

rubble of orange-tan
 matrix med gray siltstone
 in bedded - every folia.
 ⇒ immersed?

STATION #		11998		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				/	133	77	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

greenish gray silty non calc
 phyllite with ^{much} lesser interlayered
 olivgreen gtz ss and white gtz
 ss both non calc —

Typical rx of Grit unit.

STATION #		11999		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	098	55	5
S	strike	dip	direct.	L	azimuth down plunge	plunge	

black to dark gray argillaceous
fined fine grained limestone
to calcareous shale.

overlain by ~35' of black
thin bedded shale which
is internally overlain by
medium gray argillaceous
lgy limestone weathering
tan to light gray which
could be kachikan but
isn't identified

STATION #		12000		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

Carbonate spring - @ or near
 base of Rabbit Kettle. Boulders
 include carbonate pebbles & rubble
 of fm w/ a carbonate (in part
 ferrous carbonate) matrix,
 as well as pyrite (to 2% py)
 of a fsp grt or sand of z-nuc
 porphyry (?? check carefully)

all sitting in carbonate

STATION #		2002		NTS	
lithology		color		E	
unit		S		strike dip	
S		strike		dip direct	

(Flagged)

- contact as above
- R.L. overlies dk grey to black ~~shale~~ sates & argillite that is distinctly rusty weather

Have some thinly laminated orange weather v. calc. argillite within the dk grey argillite

STATION #		12003		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

"fuzzy" weath inter bedded
 resistant sl. orangey grey weath
 argillaceous limestone and more
 recessive dk grey arg. limestone
 - sits below more massive
 normal Rabbit Kettle.

July 27

Δ 12004

- S0 • 115/71 NE

- thinly laminated med to dk grey
argillaceous locally silty
limestone

- pyrite nodules and irregular
blebs to 0.5 cm dia are
fairly common

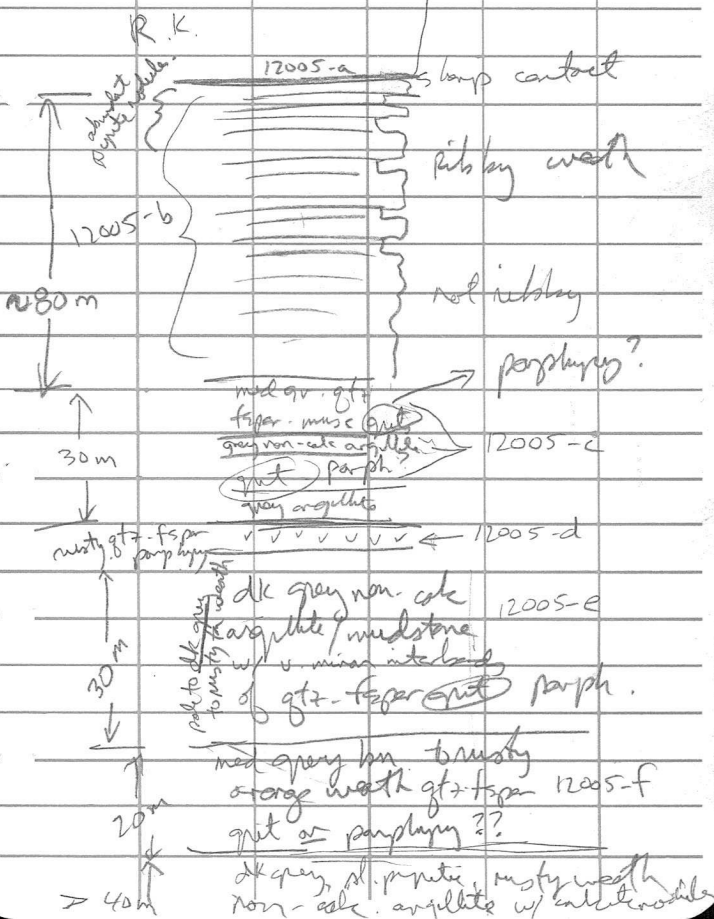
- locally has minor desiccation
along discrete bedding planes

- O/c locally rusty weather

Δ12005

S0@020/37 NW

- section from base of R.K. down



D12006

- contact @ base of felsic Kettle
- R.K. here is thinly laminated pale grey to tan weath. argill. LSTW
- contact is conformable @ this pt.
- below contact have interbedded thin-bedded pale grey to orange brown weath. dk grey argillaceous limestone w/ abundant pyrite nodules to 3 cm w/ interbeds to 10 cm thick of dk grey weath. sl pyritic (nodules) and thin beds w/ abundant disseminated pyrite, thinly laminated argill. LSTW

XX LUNCH XXXX

12007

S₀@ 005/33 W

medium bedded sl. calcareous
pale greenish grey to grey
f. gr. qtz & ostr. Sl. to mod.
calcareous. One bed ~ 1 m thick
contains abundant (5%) gray
calcrete nodules to 0.5 cm that
weather out recessively giving
a "swiss-cheese" weathered
surface.

D12008

- base of sandy dk grey argillite
- argillite is dk grey weath generally
v rusty on fractures & weath
surfaces. Fairly abundant
qtz ($\pm$ fsp) porphyry present
- as go down section, the grey
argillite becomes progressively
more calcareous until is
an argillaceous LSTW @ the
base

Then go into pale grey weath
thin to thick bedded, med to
dk grey LSTW (Sekwi Fm??)
Note there is considerable cgl
cgl in this unit - no real time
to see how much.

Δ 12009

dk grey weath, non-calc. argillite
w/ rare interbeds of dk grey-
ben weath argillaceous LSTN.

- intruded by a rusty orange weath
d. pyritic gtz. - to per-orthopyrox dyke
trending @ 140/90

- groundmass of dyke is aphanitic

- phenos to 4mm

* check the rex from 12005 - some
of them were identical to this

Δ12010

- base of P.K.
- P.K. is thinly laminated grey to tan weath. dk grey arg. LSTW
- underlain by dk grey thinly lam. ~~argillaceous~~ argillaceous LSTW and highly calcareous argillite. The LSTW has rare pyrite nodules and has a distinctive discontinuous wispy dk grey lamination similar to that seen @ Δ12006

Δ 12011

base of R.K. again

- R.K. is under him by at least
50 m of dk grey, pale grey
to sl. rusty fm. & sl. calc.
to non calc. argillite.

- argillite is intruded (?) by
rusty weath. qtz. - fsp
parph. as @ Δ 12009
Good embedded fsp parph. in
hand sample

Δ12012

thick bedded, med to dk grey and
grey brn. sl micaceous
f. gr. qtz & sstn.

Backbone Ranges ??

X X X FUEL X X X

July 28

STATION #		12013		NTS			
lithology				color		E	
unit				S		strike dip dire	
				1		175 77 NE	
S ₀		strike		dip		direct. L	
		156		56		SW	
				azimuth down		plunge	

- med grey to rusty brown locally pale grey weath, med to dk grey
 non-calc argillite and minor
 argillaceous siltstone w/ rare
 interbeds of f. gr. pure qtz & sandstone
 and ~~very~~ rare beds to 40 cm
 of thinly bedded calcareous qtz &
 sandstone w/ local cross beds.

STATION #		12017		NTS	
lithology		N		E	
unit		S		strike	
S		018		49	
dip		direct.		L	
strike		dip		direct.	
138		72		NE	
azimuth down		plunge		plunge	

med to thick bedded, med grey
to dk rusty brown, med to dk
grey non-calc. argillite
and minor siltstone

- beds are 20 cm to 2.5 m thick
- locally has small py nodules
- same as last stop, but w/o
the SSTN interbeds

* as go up-section, get rare, narrow
interbeds to 8 cm thick of f.gr.
pure gtz strn as @ last Δ.

- also narrow interbeds of
dk grey brown, highly calcareous
gtz strn

STATION #		12015		NTS			
				N		E	
lithology				color			
unit				S ₁	strike 142	dip 71	direct. SW
S	strike	dip	direct.	azimuth down plunge		plunge	
0	040	55	NW				

trend of dike - 145 / 90

dk grey, grey to rusty brn weath
 non-calc argillite w/ narrow
 (< 20 cm) of dk brn and
 red grey brn massive to thinly
 bedded LSTN. Cut by a dike
 ~ 2 m wide of Qtz porphyry
 (sl. pyritic, rusty weath).
 As traverse along ridge to E
 (down section) get into
 massive dk grey, pale grey
 to brn weath fossiliferous
 limestone

STATION #		1206		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	slowness down plunge		plunge

touchdown w/ chopper.

- cobble conglomerate w/ rounded
clasts to 10 cm of med grained
calcareous well-sorted gtz
ssw and $\frac{1}{2}$ pale grey weath
thinly laminated limestone in a
pale grey micritic LSTN
matrix.

- similar to Seton LSTN
seen before except for the
gtz ssw clasts

STATION #		12017		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	125	74	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	120	81	SW				

interbedded dk grey, med grey to
 dk grey brn. weath non-calc
 argillite dk grey siliceous siltstone
 and pale grey brn weath, med
 grey LSTN.

XX FUEL XXX

STATION #		12018		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

- Skarn dev. in thin bedded fairly pure LSTN adjacent to bt-granite intrusion.

- skarn zone is ~ 50 m wide @ this point E consists mainly of thinly bedded silicified garnetiferous med grained white marble

- have abundant garnet leopards skarn and much w. rusty magnetite and magnetite-pyrrhotite deformed skarn (in flat from above Δ)

STATION #		12019		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	148	65	NE
S	strike	dip	direct.	L	estimate down plunge		plunge
1	130	85	SW				

dk. gray to calc argillite, dk gray to rusty
 brown weath. w/ narrow (< 5 cm)
 interbeds of d. calc. f. grained
 qtz & ss.

July 29/81

STATION #		12020		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	

S worn d. gtz. and gtz.
 musc (+ ~~pegs~~) porphyry
 dikes from 1 to 3 m wide
 intruding thinly laminated
 med. gray to orange weath.
 argillaceous LSTN (R.K.)

dikes are rusty weath, sl.
 pyritic, ~ vertical

STATION #		1202		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

gtz eye and gtz - fapa (E. zone)
 porph. like as above including
 pale to dk rusty gray to tan
 weath. dk grey iron - ore
 argillite

STATION #		12022		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

- massive thick bedded (apparently no bed contacts visible)
orange to pale bluish gray
weath med gray LSTN L
virtually all det is cobble
cglm w/ clasts of blue-gray
LSTN in an orange-br
weath matrix

Looks like Sekwi seen elsewhere

- float coming down from above
is thinly laminated pale gray to
sl. orange-br weath, dk
gray argill. LSTN
— Rabbit Kettle

XX LUNCH XX XX

STATION #		12023		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	175	27	NE				

garden variety Bunning Pot Fm.
thin bedded fr to med grey
weath argillaceous and locally
silty LSTN

- rare narrow apparently lensed
units of dk grey weath arg.
LSTN

STATION #		12024		NTS									
		N						E					
lithology				color									
unit				S		strike		dip		direct.			
				1		112		81		N			
S		strike		dip		direct.		L		azimuth down plunge		plunge	
0		140		40		NE		(50 1/2)		112		76	

- thinly bedded R.X. Fm.

tan to pale grey, sl. silty
weath argill med grey LSTN

- cross a antiformal fold hinge
and go up section on other side
into more flaggy weath.
gray to tan weath arg. LSTN

STATION #		12025		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				1	113	90	
S	strike	dip	direct.	L	azimuth down plunge		plunge

dk grey to rusty brown weath
non-calcareous sh carbon-
aceous. shale & silt

well dev. platy chng.

- locally v. rusty weath due
to f. gr. dissim. py. and
small flattened f. gr. py
nodules to 1cm X 15cm

STATION #		12026		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	132	77	SW				

- med to thick bedded fine grained
 med to dk grey, brown calc
 siltstone (pale grey weath)
 separated by sequences to
 4 meters thick of red bedded to
 thin bedded (scale of 5 to
 20 cm) dk grey weath
 med calc siltstone and massive
 med grey brown weath rd. argillaceous
 ls med.

STATION #		12027		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct	
				1		135		85		NE	
S		strike		dip		direct		azimuth down plunge		plunge	
0		108		25		S.					

- unbedded pebble - cobble con - angular to subrounded frags of pale to dk grey weath. med bedded, thinly laminated LSTN in a fine grained fr to orange tan weath locally sandy LSTN matrix

prob. Sekwi - $\frac{1}{2}$ v. similar to Δ 12022

- well dev. cleavage
- bedding weas. just down section in pale blue grey weath thin bedded LSTN
- farther down section have tan weath, thinly laminated arg. LSTN (interbedded w/ pale blue-grey LSTN)

STATION #		12028		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	145	70	NE
S	strike	dip	direct.	L	azimuth down	plunge	plunge
				F ₁ axes	145	0.0	

- pale bluish gray weath. limestone similar to last Δ .
- to S along side of ridge have fm to grayish tan weath. thinly laminated argill. LSTN. (R.K.)

abundant minor folds in the R.K. and near the contact w/ the blue-gray LSTN. The bedding dips NE, so could underlie the blue gray (Sektur)

Contact is not exposed however, so could be overturned fold limb or fault contact.

STATION #		12029		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	066	38	N
S ₁	strike	dip	direct.	L	azimuth down	plunge	
	010	30	W		plunge		

- interbedded dk grey-br, locally rusty, thinly laminated non-calc argillite and pale to med grey-green weath, non calc, siltstone.

- looks like stuff in Backbone Range but ~~could~~ be the argillite above the Sekwi

STATION #		12030		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	055	34	NW				

thinly laminated pale grey to tan to orange tan weath very argillaceous
 LSTND. Fairly abundant py
 nodules

- does not look like Red but
 Kettle - looks more like the
 "Ribby" interbedded unit @
 below R. K.

STATION #		12031		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

st. to mod calcareous dk
grey bn argillite

STATION #		12032		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	038	40	NW				

- garden variety thinly lam.
R. K. fm. Pale grey to
tan-grey weath avg. LSTN

12033 dk grey, sl. rusty
weath non' - calc argillite

12034 med grained, grey to
sl. rusty, brn weath
qtz & sandstone
- sl. calcareous

Aug 1/81

STATION #		12035		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	172	45	W
S	strike	dip	direct.	L	scissouth down plunge		plunge
#1	169	59	W				

dk grey, sl. carbonaceous, sl
rusty weath, var calcareous
shale and slate with narrow
($< 1\text{cm}$) interbeds of white to
pale grey, var. calc., f. gr.
gt + ss.

Backbone Ranges.

overlain by dk grey weath.
dk narrow grey fine-grained
stone - thin bedded.

(also B. Rgs.)

STATION #		12036		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	060	13	NW
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	155	85	W				

massive to very crudely bedded
pale blue - gray LSTN, locally
w/ some irregular zones of
LSTN cobble cgl w/ pink
to orange - in matrix of dolom.
matrix

Sekwi Fm

- a fairly cursory examⁿ
along the ridge did not
turn up any fossils

STATION #		120347		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

- massive LSTN cobble & boulder
 cglm. Cherts to 0.5m dia of
 f. gr. pale to med grey; blue-grey
 LSTN. in a pale gray to
 tan weath matrix

- From air this part of the
 unit looks med. bedded,
 but can't identify bedding
 on the ground in this part of
 the section

Sekwi - no fossils

STATION #		12038		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	strike down		plunge	
1	088	62	N				

bedding striped pale & dk grey,
sl. rusty weath. thinly
bedded slates, stly argillites
(non-calc) and siliceous
pale grey metstones

Backbone Lys.

Bedding dips ~ 30-40° NW
no time to measure

STATION #		12039		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	
1	133	40	SW				

- med grey to grey br weather
dk grey to grey br non-ole
slates & phyllites
- similar to slates @ Coal stns
but w/o the siltstone

STATION #		no 40		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
1	165	60	E				

- traverse down section from base of Sekwi CO₂. Starting orange tan weath down. shales and dk grey phyllites w/ abundant rusty orange weath Fe-CO₃ lenses. Then go through a thick section of med. to dk grey and grey. Sm weath dk grey shales & phyllites that contain increasingly abundant (down section) med to pale grey green diffuse bands and stripes. (A pickup pt. are in entirely pale grey green phyllite. Back home Ranges/ Grit Unit phyllite transition?

STATION #		12041		NTS									
N				E									
lithology				color									
unit				S		strike		dip		direct.			
S		strike		dip		direct.		L		strike-slip plunge		plunge	
1		155		35		NE							

- med gray to gray-green to
gray-brown sl. carbonaceous
non-calcareous sl. mostly
weath. phylites. Similar to
parts of the section seen @
last Δ

STATION #		12042		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

bedding steeped med to pale
grey green phyllite, dipping
steep down into locally
sl. hematitic dk grey carbonaceous
phyllites.

STATION #		12073		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	088	39	N				

- sheared to par porphyry
- foliated, massive usually
blackish weath
- locally rusty weath

STATION #		12044		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
strike		dip	direct.	plunge		plunge	

massive med bedded
 med granitic cream to buff
 marble, intruded by
 massive med gr. quartz
 bt-hbl gtz massive

STATION #		12046		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	apparent dip plunge	plunge	
sub So	020	25	W				

Thinly interbedded dk gray and
gray horn gtz - quartz, calcareous
phyllites, and gtx or siltstone

~ 200 m to the w. have a
massive blocky weath. fsp
(± gtx) porphyry sill ~ 10-15 m
thick (non-foliated)
- underlying - this is wave of the
above, along w/ cream to buff color
- bedding @ 088/13 N in the
underlying rx.

STATION #		12047		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	dip-south down plunge		plunge

- pale grey weath, cream to buff med gr. marble w/ narrow siliceous bands (could be Grit unit or Sekwi CO₃)

- as go S^w towards granite contact, go (struct.) down section, get into rusty weath hornfels (brown and grey) bkn siliceous siltstone

- some narrow garnet diopside skarn interbeds near base of CO₃

STATION #		12048		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	170	52	W				

thin to med bedded, thinly laminated
 sandy med gr grey marble w/ narrow
 calcareous siliceous siltstone
 interbeds (resistant weath).

- good X bedding in some of the
 sandier marble - tops to
 west

- below the main mass of marble
 get into interlayered med grey
 green and grey-maroon phyllite
 w/ narrow marble interbeds
 of grey marble

STATION #		12049		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	120	14	Sw
S	1	strike	dip	direct	L	azimuth down plunge	plunge
		146	54	Sw			

- Thick sequence of variegated med to dk grey siliceous phyllites locally w/ a sl. maroon tint!

- Bedding striping locally visible due to pale grey siliceous silt interbeds.

- underlain by fn weath med grained marble, which is thinly interbedded w/ gtose silt stone in the upper 3m.

STATION #		12050		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive pale to med grey w/ath
locally rusty, sl. calcareous
gtz > fsp. pebble cglm

rare pale grey - green dykelets
clasts.

STATION #		12057		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	147	45	SW
1	strike	dip	direct.	S	down	plunge	plunge
	130	76	SW	50/51	313		16

" bedding
strips

bedding striped pale to med grey and
grey green weath. phyllites

med grey - to grey green fresh

- underlain by med grained red
grey weath. non. calc. gtz
sandstone

STATION #		12052		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct.	
				1		096		77		N	
S		strike		dip		direct		azimuth down		plunge	
0		072		25		NW					

- interlayered med grey weath, sandy fine to med grained marbles and dk grey non calc. phyllites
- in contact to W w/ a pale to med grey green weath massive non foliated feldspar porphyry (same as @ $\Delta 1204$)

STATION #		12053		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
0	042	49	Nw				

pale grey to orange tan with
highly calcareous gtz qtzs and
gtz pebble carbon w/ abundant
irregular bodies of med grey
phyllite (prob rip-up clasts)

- narrow (< 1 m thick) interbed
of thinly laminated highly
calcareous orange and med
grey striped siltstone, locally
w/ detrital mica

- as go up section (to NW) qtzs
become less abundant and
siltstone & narrow marble
interbeds more abundant.

- cutting a fine grained granitic
pale grey bn to grey green (over)

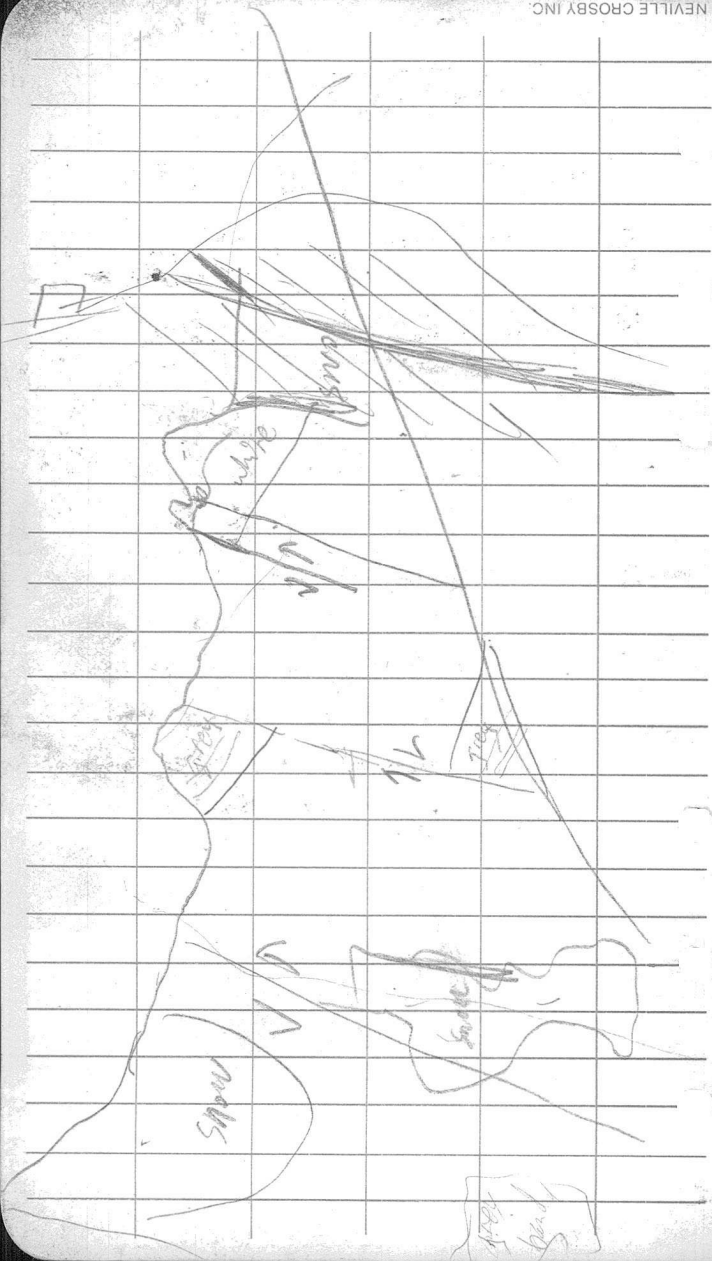
weath dyke trending ~ 060/90
 ~ 1 m wide - good X-cutting
 relation exposed. This is the same
 rock as the porphyry seen @
 last Δ - rare faser
 phenos visible here. Also
 is mod calcareous throughout.

STATION #		1205#		NTS	
lithology		N		E	
unit		S		strike	
S		080		dip	
0		SS		direct. L	
				azimuth down plunge	
				plunge	

-exactly the same suite of rock as last Δ most of the O/C is orange-fan weather, have interbedding of volcanics of quartz & pebbly conglomerate, thin, laminated orange and grey quartz & siltstone and a scale of 1-4 m

STATION #		12055		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	color with down	plunge	plunge
1	172	46	E				

med to dk grey and grey brown
 non calcareous locally rusty
 in weath slate and phyllite
 locally w/ bedding striping
 visible. Also rare chert
 nodules to 2 cm dia.
 also have an interbed < 3m
 thick (contacts not exposed)
 of med grained pale grey
 weath marble.



STATION # 12057 NTS

lithology

color

unit

S

strike

dip

direct

S

strike

dip

direct

azimuth down
plunge

plunge

° 000 78 E

- massive pale gray with
LSTN as above locally sl.
sandy. To west in contact
w/ banded pale to red green-green
and brown phyllites locally
w/ siliceous siltstone & f. gr.
gt + sandstone inter beds.

XXX LUNCH XXX

STATION #		12058		NTS	
		N		E	
lithology		color			
unit		S		strike dip direct	
				045 31 NW	
S	strike	dip	direct	L	
0	022	53	NW	L	
				width down plunge	
				plunge	

-bedding stoned maroon & green
phyllites

underlain by massive ~~mar~~ pale
to med grey. locally only
LSTN. (same LSTN as of
@ 12056, 12057

STATION #		12066		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S		strike		dip		direct	
				azimuth down plunge		plunge	

pale to med gray weath LSTW interbeds
 w/ dk gray, sl. to on calc,
 locally rusty weath
 argillite.

STATION#		12061		N 70	
N				E	
lithology				color	
unit		S	strike	dip	direct.
S	strike	dip	direct	L	strike east plunge
					plunge

thickly bedded sl dolomite
v. f. gr. qtz sandstone (tan to
pale gray to pinkish weath)

inter bedded w/ pale gray to
blue gray non fossil LSTN

STATION#		12062		NTS	
		N		E	
lithology		color			
unit		S	strikes	dip	direct.
			≈ 000	40	E
S	strikes	dip	direct.	growth down plunge	
1	150	58	NW	very!	

med to dk grey and brownish
grey weath (locally w/sl.
greenish tint) med to dk
grey non-calc phyllite

- locally rusty weath.
- contains small (< 0.8 cm)
round nodules of black chert
(* note: this was also seen
@ Δ 12055)

- go up section to W along ridge
through none of the sand (w/o
the nodules) then through
a band 5-8 m thick of
f. gv.; pale grey to tan weath med
grey marble. Then up into dk grey
variously bedded striped rusty grey phyllite

STATION #		12063		NTS	
lithology		N		E	
unit		S		strike dip direct	
S	strike	dip	direct	elevation down plunge	
1	140	39	SW		
				plunge	

red grey to greenish grey, locally rusty weath, non-calc phyllite / phyllitic argillite. Locally has an irregular wispy laminar texture defined by sl. darker grey streaks.

- looks like transition zone between B.R. and Grit Units from last day.

XX FUEL XXX

STATION #		12064		NTS	
lithology		color		F	
unit		S		strike dip direct	
S	0	strike	dip	direct	
	082	42	S	plunge	plunge

Thinly interbedded (Scale of 2 → 25 cm) pale to med grey and bluish grey weath dk grey LSTN and v. calcareous f gr resistant weath. qtz rstr and sandy LSTN

- rippling weath
out resistant

- extra weather

STATION #		12065		NTS	
		N		E	
lithology		color			
unit		S		strike dip direct	
S		strike		dip direct	
				plunge	

two rusty bands w/in red
bluish grey weath. rusty weath.
marble & sl. silty marble
as above.

- rusty bands one in part
d/c him to purplish brown
f.g. marquette (?) - sl. pyritic
and in part pyritic &
pyritic color-schistose
marble

X X END of Day X X

Aug 3/81

STATION #		12066		NTS	
lithology		color			
unit		S		strike	dip
S	strike	dip	direct	strike down	plunge

- massive orange to dk rusty
brn weath fgr. non calc.,
med grey (fresh) ss. str.

Backbone Ranges

STATION #		1267		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S		strike		dip		strike	
						plunge	

section from upper Sekwi CO₃ to lower.

Upper CO₃ is thin (<10m) massive to poorly bedded go down into thinly interlayered (5cm — 2m) cream to rusty brown sh. pyritic (mainly on fractures) m-calc, f.gr., gt + ssbn, siltstone and med to dk grey weath LSTN, along w/ minor rusty dk grey var calc. argillite
- go down into a thicker more massive CO₃ unit that is v. similar in appearance to the upper one

STATION #		12068		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- thin formed into bedded pale grey weath LSTN and sandy LSTN, and dk grey weath mod calcareous, f. gr. gtz gstr and siltstns. Bed thicknesses are on scale of 0.4-72 m.

STATION #		12069		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
0	028	30	NW				

pale to med grey 15TN and
fgr. marble & foliated
marble. Thinly layered

- have a narrow zone w/
med green to rusty with
calcareous siltstone — appears
to be related to alt^c
along a fracture

STATION #		12070		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive, rusty brown weath., med to dk grey brown and purplish brown non calcareous hornfelsed f. gr. qtz etc.
- sl pyritic throughout.
- v. vague color banding & grain size layering defines bedding - only seen in rotated blocks

STATION #		12071		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

(rusty O/L in creek)

- mainly dk grey - ls to deep
maroon siliceous hornfels
w/ abundant 1st gtz + magnetite
dykes.

- same rock as last Δ

STATION #		12072		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

pale grey to med grey green
 & grey brown weath. deep
 brown gt rose siltstone w/
 rare f. q. v. gt & silt
 interbeds

- rock appears to be sh.
 laminated - v. tough.

STATION #		12073		NTS					
N				E					
lithology				color					
unit				S		strike		dip	direct.
S		strike		dip		direct.		L	
						azimuth down plunge		plunge	

massive & rusty weath. of
 pyritic & pyroclastic deep
 massive siliceous conglomerate

- similar to last stop, but
 no primary bedding visible
 here

- rock is non calcareous,
 but has recessive weath
 "pock marks" - possible a
 recessive pephroblast

XXX FUEL XXX

STATION #		12074		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

lower dyke intersect @ ~ 100/75N

- steeply N-dipping dyke > 10m thick of Wbl. - Qtz - fsp - porphyry, intruding Bm with non-calcareous lamellae.

STATION #		12075		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S	strike	dip	direct	azimuth down		plunge	
0	010	90					

- thinly laminated pale gray
 weath f. gr. marble and
 sl. sandy marble in contact
 w/ f. gr. hornfelsed gtz ss
 and non-calcareous rusty
 weath. impure sandstone.

STATION #				12076				NTS			
				N				E			
lithology						color					
unit						S		strike		dip	
S		strike		dip		direct.		L		azimuth down	
										plunge	

- red grained equigranular
hbl. bt gtz muscovite.

STATION #		12077		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down	plunge	plunge
0	140	63	SW				

- interlayered rusty weath
dk grey to green (fresh)
mar. calc, and calc of f. gr.
qtz + ssht, and pale green
sandy calc. schists. W/in 50' m
of granite contact.

- further away from granite
contact have a marble bed
~ 10-15 m thick - thinly to
med. layered w/ abundant
rusty weath calc. qtz
sandstone interbands

Looks like a Grit Unit
Marble, but could be
Sekwi equiv., similar to
12067

STATION #		1078		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct.	
S		strike		dip		direct.		azimuth down plunge		plunge	

massive non-calcareous gtz
pebble cfm.

STATION #		1207 ⁹		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

massive med gr. equigranular
 1/2" to 1" quartzite

STATION #		12030		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- white to rusty brown weath
 fine grained gtz and feldspathic
 gtzite - locally have white
 texture preserved & can see are
 red grained gtzite

STATION #		12081		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
1	167	25	W				

v. rusty weath dk gray to
 deep maroon siliceous f.gv.
 hornfels^{alt. fine} in contact to south
 w/ fine grained pale gray
 weath massive to highly
 fractured marble - no
 bedding visible

- Marble is relatively pure
 not at all sandy or silty

STATION #		12082		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	150	38	NE				

- Thinly interlayered calcareous
pale creamy grey to greenish
grey calcareous silt & sstn E,
pale green to purplish
brown calcarenite w/
f. gr. hbl & f. sp. porphyry
isles

STATION #		12083		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	141	90					

maroon & green phyllites
 interbedded by red green weather
 Fsp or pyrophyllite like to 0.4 m
 thick (cont'd ~140/90)

XX FUEL XX

STATION #		12084		NTS						
				N		E				
lithology				color						
unit				S		strike		dip		direct.
S		strike		dip		direct.		L		plunge
								azimuth down		plunge

- tan to sl. rusty brown weath
v. calcareous gtz & gtz-fsps
grits and sandy (STN)
- has clasts of bedding striped gray phyllite
undbl. fossiliferous bedding
°° all rotated blocks in
mined area of pickup

STATION #		12085		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
0	035	40	NE				

tops are up (graded bedding)

- thick bedded (scale of 1 → 1.5m) sl. to med calcareous qtz + ss + sstns and qtzs, separated by thinly laminated pale and dk grey siltstns.

could be v. thick turbidites

STATION #		12086		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	bedding	azimuth down	plunge	plunge
	135	50	NE	strike	110		08

- bedding striped deep maroon and green phyllite, intruded by a ~ vertical dikes @ ~ 165/90 - greenish grey weath fsp. purph

STATION #		12087		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
0		025		85		SE	
				azimuth down		plunge	
				plunge			

- med purplish brown spotted
 boulders - prob. originally
 a f. gr. non carbonaceous
 clastic rock.

STATION #		12088		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge
1	125	70	SW				

dk. purplish to purplish brown
 (hornfelsed?) Kspar porphyry (at
 least in part) as well as some
 thinly bedded purplish brown
 rusty weath. f.g. quartz

STATION #		12083		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
					170	90	
S	strike	dip	direct	L	azimuth down plunge		plunge
0	125	46	SW				

- thinly inter-layered tan to med grey weath. & to highly calcareous siltstones, locally w/ a wispy lamination defined by discontinuous dk grey laminae, w/ minor inter-beds of med grey phyllite and dk grey non-calc. argillite, overlain by Rabbit Kettle argillaceous and silty, thinly laminated med grey LSTN

cut by several dikes ~~some~~ of which are grey weath. rel. resistant - both bt - granite and dk green weath. somewhat more mafic canyon - next day traverse down ridge - all in R.R. w/ uniform SW dip of 50

STATION #		12090		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	150	85	SW
S	strike	dip	direct	L	azimuth down plunge		plunge
↓	040	90					

traverse down ridge

- start in red grey to grey-green calcareous phyllite, then down slope through nearly vertical beds of strongly foliated grey marble (fine grained sl. sandy) ~ 3-5 m thick - have 3 of these w/ interbeds of dk grey calcareous rusty weather phyllite and sl. phyllitic siltstone.

- @ pickup point have maroon & green phyllite mined adjacent to one of the marbles.

Aug 4/81

STATION #		12091		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

- massive rusty brown weath
sl foliated, med brown altered
monzonite on diorite (??) - no
time to make sure.

- move w/ shovels ~ 200m
to S into spotted sample -
50-60% cordierite (?)
porphyroblasts to 3 mm

- prob. a f.g.v. clastic
originally

STATION #		12092		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direction	azimuth down plunge			
1	128	30	NE				

dk grey to grey bn bedding
 striped, non-calc phyllites
 w/ interbeds to 1 m thick
 of f gr, locally micaceous,
 note to pl. calcareous
 gt + SSW.

Back bone frozen

STATION #		12093		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
				azimuth down plunge		plunge	

pale gray-green, to tan, brownish
 weath non-calc phyl/lite

STATION #		12094		NTS			
				N			
lithology				color			
unit				S		strike	
				0		040	
						dip	
						67	
						direct	
						SE	
S		strike		dip		direct	
1		150		72		sw	
				L		azimuth down	
						plunge	
						plunge	

- dk gray non calc, non bedding
 striped, white w/ non calc
 f qv. ostr interbeds

same ~~as~~ as 012092

STATION #		12095		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge	
1	137	68	NE				

+

X

X

ADNMT

+

up ridge

+

base

SEKURI CO2

+

up ridge

+

weath.

+

non calc

argillite

becoming

more calcareous

down ridge through basal Sekuri CO2

up ridge have dk grey, rusty weath, non calc argillite, becoming more calcareous downwards

then into "Swiss cheese" weath (STN) pebble to boulder cglom (unsorted) w/a ~~soft~~ stony matrix becoming more

calcareous in lower part.

thin calcareous dk grey

argillite interbedded w/ the

cglom.

then down into mottled sl. calcareous

non bedding striped argillite

- section could be overturned but no evidence from m. con.

STATION #		12096		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge
1	135	15	NE	1	000		11

med gray to grey green non-cole
bedding striped phylite

STATION #		12097		NTS			
lithology				N		E	
unit				S		color	
S		strike		dip		direct.	
0		039		67		NW	
		strike		dip		direct.	
		135		16		NE	
		strike		dip		direct.	
		135		16		NE	
		strike		dip		direct.	
		135		16		NE	
		strike		dip		direct.	
		135		16		NE	

- thin to med bedded (scale of 2 cm to 0.5 m) med grey to tan weath highly calcareous. gtl & qtz, and med to dk grey and tan weath f. gr non-calcareous siltstries & phyllites.
- looks like Grit Unit qtz transitional (into layered w/ Backbone Ranges siltstrie & phyllite)

STATION #		1298		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	155	37	NE
S	strike	dip	direct	L	azimuth down plunge		plunge
1	165	11	E				

massive to poorly foliated
med bn weath gtz >>
fapor pebbles cfm

- in contact to SW (underlain
by) dk grey to grey bn
~~thin~~ to cream thin
laminated siltstones + interbedded
w/ calcareous bn weath
med graded gtz + gtz

tops appear to be up (one
poor detⁿ of graded bedding)

STATION #		12099		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

interlayered gtz >> fgsr pebble
 calc (sl. calcareous) w/
 med grey to grey green
 phyllite and med calcareous
 gtz grit.

STATION #		12100		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	140	85	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	152	60	SW				

med grey bedding striped
phyllite (non calc) and
olive green siltstone to fine
ss - siltstone look
to be micaceous -

interbedded greenish
grey with red tinge

looks like gravel but
not esp 3rd clastics.

STATION #		12101		NTS							
				N		E					
lithology				color							
unit				S		strike		dip		direct	
				0		325		38		NE	
S		strike		dip		direct		azimuth down plunge		plunge	

massive to laminated
 med grey fine grained gtz
 sandstone - no calc

position w/ kachuk and
 dk shale chips in soil
 suggest this is "Round River"

STATION #		12102		NTS			
				N		E	
lithology				color			
unit				S		strike	
				/		158	
						dip	
						75	
						direct.	
						NE	
S		strike		dip		direct.	
0		150		18		SW	
				azimuth down		plunge	

dark grey carbonaceous slaty
 non calc thin bedded
 siltstone - breaks to
 prominent pencil lineations

STATION #		12103		NTS						
		N						E		
lithology				color						
unit				S		strike		dip		direct
S		strike		dip		direct		L		azimuth down plunge
										plunge

dk grey slaty siltstone -
not ~~weak~~ thin bedded is ch.Ho
to last of

also this ~10' thick
beds of massive fine
grained or calc
gtz ss with some lithic
rip up clasts.

STATION #		12104		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				0/11	000	60	W
S	strike	dip	direct	L	azimuth down plunge		plunge

thinly to ribbon bedded
 coarse colored rusty weather
 slightly pyritic matrix chert
 overlying felsic matrix
 with small pools of
 chert siliceous, mainly
 poopy with possible
 sphil.

chert overlain by gray
 brown soft matrix
 phyllitic rock that is not
 heavy and may be
 a matrix tuff.

Below or on strike
 with felsic rocks are carbonate
 cemented chert supported
 rusty weather rock box

which I ~~so~~ wanted to
get a fresh surf.

STATION #		12105		NTS			
N				E			
lithology				color			
unit				S?	strike	dip	direct.
				1110	355	70	W
S	strike	dip	direct.	L	azimuth down plunge		plunge

site of TGS DP-81-2

4 brn earth crease to
 very lt brn / tan fresh
 fine grained thin
 layered gte / meter
 calc / chert ??

cut by gte veins 1 to
 meter. foly and later.

alt of that here of
 slightly purplish brn v. silcons
 rx that weath almost
 white with relief weath and
 streaky internal lamination
 suggestive of rx in Ecm Gp.

Also present is ~~g~~ feld gte bio
 porphyry but not seen
 in ope

STATION #		12106		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				12	055	76	5
S	strike	dip	direct.	L	strike down plunge		plunge
1	105	75	W				

?
↓
not sure
about this
is!

↖ good foln

massive to slightly platy
med dk grey fine to med
grained graminstone?
or mbl - appears to
be faulted against massive
very rusty with dark
crackle brex and sigmoidal
to w. by massive med
grained gte + feld gits
which are not calc &
well foliated but not bedded.
- don't look like vokes -

STATION #		1210		NTS			
				N		E	
lithology				color			
unit				S		strike	
				12		330	
						dip	
						45	
						direct.	
						SW	
S		strike		dip		direct.	
						L	
						azimuth down	
						plunge	

mud grey weath. Spherul. lot
 otherwise generally massive
 and grainy etc bearing
 calcareous ss 30 - not
 bedded and quite weath. -
 is difficult to get clear
 t.d. - seems to be
 interlayered with gtz
 porphyry that could be
 metabole or intrusive. -

may just be a badly weathered
 marble. See 12108 where same
 rx are present.

STATION #		12108		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				azimuth down plunge		plunge	

med grey weath. foliated massive
 calc gte ss?? as at first
 stop but here assoc with
 rx that look like calc silicate
 - very fine med green
 massive to thinly banded
 green - pinkish cream rx
 that have highly contorted
 banding.

The grey rx here are
 probably just marbles with
 very strong foliation.

STATION #		12109		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

blk - dark grey slaty siltstone -
 w/ calc, carbonaceous -
 has minor thin (1/4" max)
 of lt colored gty ss beds.

So, dips $\sim 4/5^\circ$ towards SW.

STATION #		12111		NTS		
N				E		
lithology			color			
unit			S	strike	dip	direct.
			0	145	44	NE
S	strike	dip	direct.	L	azimuth down plunge	plunge
1	138	65	SW			

335 / 72 NE S₀ ~ 400' to E

1st is a fine sand / dk grey
thin bedded ^{silt} slate sand
grey salt & pepper gtz <
l. thin f. calcareous ss (graywacke)
with bursier bedding -
minor ripple x lam

To E is a greenish grey
sand greenish brown / tan
with gtz + l. thin poorly
sorted ss (wacke) which
is not terribly different
from ss of gtz unit.
may be some chert frags
in coarser ss suggesting UDM
or T₂ but coarser than latter.

STATION #		12/12		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	132	77	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	125	14	NW				

med to dk grey very thin bedded to laminarly bedded turbidites. - same unit as last of what ever that is.

Staty siltstone interbeds are dk grey & non calc - remind me of 12109 but not as dark as that unit overall. - ss are med to lt grey salt & pepper and slightly calcareous with some x-bedds.

may be dendroidic graptolites here.

STATION #		12113		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

limestone cobble cong
also sandy limestone -
cobbles set in matrix support
in dark calc siltstone to
gritty siltstone which
may have chert cherts.

- also seem to have
thinly bedded tan to
med grey with dark
grey calc siltstone.

STATION #		12114		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

massive calcite cemented
shale (?) with clasts
mainly of ore weathering
metamorphosed looking gneiss
which is well rounded
and approximately spherical
with subequal amounts
of flat cobbles but well
rounded to grey ls.
rare clasts that look like
the matrix.

Matrix is a well sorted
poorly sorted calcite cemented
at 55.

~~targets~~ Clasts are matrix to clast supported.

after break

12 Sept 81

STATION #		12115		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct	
						azimuth down	
						plunge	

much lesser -
 dull brick red and lb.
 olive green slate to silty
 slate of gub unit.

no of just small pieces
 of rubble but most likely
 local.

reddish tinged off white to very
it tan weath very slightly to
non ~~calc~~ dolomitic grt 3. l.t. stone
is very fine ss mud gray
fresh

well foliated but lacks clear bedding - has the peculiar particular foliation of the siltstone unit & may be so heavily burrowed - some possible burrowing seen but not clear. may be thickly bedded with S_0 dipping $\sim 15^\circ$ to N but not certain. S_1 approx $345/90$

STATION #		1217		NTS			
		N					
lithology				color			
unit				S	strike	dip	dir
				1	128	34	SW
S	strike	dip	direct	L	azimuth down plunge		plus
				1	128		00

med grey phyllitic micrite of
EOK

S₀ dips more steeply to
SW than S₁

interlayered with highly
argillaceous calc phyllite

STATION #		12118		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct	L	azimuth down plunge		plunge

NEVILLE CROSBY INC.

road to dk grey silty, phyllite
with laminae by bedded
slightly greenish grey slightly
dolomitic to gts ss to
siltstone. - also 1-2"

thick interbeds and nodules
of dolomitic which
appears to have gypsum
pseudomorphs.

This is not VOM -
reminds me of E(?) rx
seen below LOK across
trench.

no time for struct
S, S, both dip shallowly
to N or NW

STATION #		1219		NTS			
				N		E	
lithology				color			
unit		S		strike		dip	
		1		090		15	
S		strike		dip		direct.	
0		295		70±		5	
				azimuth down		plunge	
				plunge			

dark grey with rusty
 coating weathering soft
 slaty siltstone. - fairly
 homogeneous. across foliation
 but subtle color lamination
 in parts of d/c 15 S.

non calc

000/25 E better S,

rare 1/2" py nodules - many
 have zoned Smithsonite
 needles on S,

STATION #		12120		NTS			
		N				E	
lithology				color			
unit				S		strike	
				0		150	
						dip	
						15	
						direct	
						NE	
S		strike		dip		azimuth down	
						plunge	
						plunge	

medium gray heavily banded
looking non calc and non
dolomitic siltstone interlayered
with dk gray sluggy carbonaceous
and highly micaceous siltstone
gray rx weather orangish, but
black rx weath just dk gray
with some orange rusty spots

small fault in ope juxtaposes
rx of same unit eastern
rx are more carbonaceous
on av but identical to
rx at base of western
block.

STATION#		12121		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	058	40	SE
S	strike	dip	direct	L	azimuth down plunge		plunge

black chert - medium bedded -
 not ribboned. seems to have
 white chert as irregular bodies
 along S_0 - not sure if its a
 diagenetic bleaching & oxidation
 or if this sp might include
 some chert congl - seems most
 likely the former.

STATION #		12122		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		azimuth down plunge	

med gray grainstone
 med grained - not sure what
 all clasts are but not much
 ofc may be mainly CO_3
 and possibly some fine
 grained lithics - homogeneous
 of - heavily calcite
 veined and fractured.

sharp flatness on ofc appears
 to be unfr. folia but not
 sure - no time to meas.

strike is elongation of ofc

similar to some rx ive seen
 in Kg but not necessarily
 a sure fit.

Sun 13 Sept 81

STATION #		12123		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	312	40	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

black ribbon chert, interbedded
 in at least 10's of feet
 scale with dk grey variably
 calc gte siltstone thin-bed
 bedded and sandy to silty
 dk grey fetid 1st.
 weathers dk grey brn.

probably DM,

STATION #		12124		NTS			
		N					
lithology				color			
unit		S		strike		dip	
		011		126		48	
						SW	
S	strike	dip	direct.	L	azimuth down plunge		plunge

dark grey non calc ^{dk} rusty grey
 brn weath (rusty contrings) silty, slate
 with ~ 10% - 5% interbedded med
 grey to slightly greenish grey fg
 gts ss to siltstone which varies from
 massive to xbedded to laminarly
 bedded. of may be inverted
 on possible A → E Bornea sequence.

STATION #		12125		NTS			
				N		E	
lithology				color			
unit				S		strike	
				0		352	
				dip		20	
				direct.		W	
S	strike	dip	direct.	L	azimuth down plunge		plunge

v. thin bedded porcellanite to ribbon
bedded chert. - black weath
tan/grey

STATION #		12126		NTS			
				N		E	
lithology				color			
unit				S		strike	
				1		345	
				dip		26	
				direct.		SW	
S		strike		dip		direct.	
0		345		30		NE	
				azimuth down		plunge	

greenish gray
med. to dk gray thin bedded
slate with minor py heavily
dissemin in some layers
soft and non calc.

UDPA??

some brown m-Hing

STATION #		12127		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		and both down plunge	
						average	

thin to med bedded mud
to dk grey argillaceous and
silty ^{fg.} limestone - not bedd.
no fossils

minor associated black chert
no other rx.

rubble only.

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STATION #		12128		NTS			
				N		E	
lithology				color			
unit				S		strike	
				12/10		292	
				dip		35	
				direct.		SW	
S		strike		dip		direct.	
				azimuth down		plunge	

ofc is ~ 50% greenish grey
 to med grey fresh / orangy
 tan weath fine to med grained
 thin to med bedded gtz ss.
 grains poorly sorted to med
 sorted and generally well sorted
 some gtz wareke - some ss
 is micaceous - ss are non calc non dolo.

remainder of ofc is non
 calc med to dark grey non
 bedding striped phyllite. too
 lt colored for usual vdrn.

suggest this is middle gtb unit.
 important subord. unit rock types
 are foliated ^{olive} green ~~qtz~~ s. lts stone
 and greenish grey to med grey
 foliated gtz wareke.

STATION #		12129		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				011	145	SS	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

of 13 80% pink weath
 (no apparent reason) poorly
 sorted med to fine gravel
 gte average to coarse grit.
 non calc non dolom. -
 greenish grey fresh.

remainder of dc is dark to
 med grey phyllite and
 phyllitic siltstone - non
 calc no S₀ striping -
 same unit as last dc.

minor bluish gte in grits
 quite a few carbonaceous
 1. thin rip up clasts in some
 beds. - look like turb. dikes.
 some punky white clasts could be feldsp.
 - not bad for Grit unit

STATION #		12130		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

rubble of massively bedded
 or thick bedded off white
 coarse to med grained quartz
 grit - non calc -
 some bluish gr possible feldsp.
 larger clasts sub & most
 round.

STATION #		12131		NTS	
lithology		N		E	
unit		S		strike	
S		0		125	
strike		dip		direct.	
L		34		SW	
azimuth down		plunge		plunge	

dk grey fine grained dirty
 limestone - argillaceous & silty?
 may be a fine grained
 thin bedded and interbedded
 with med bedded coarse
 grey/white speckled grained

STATION #		12132		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		azimuth down plunge	
						plunge	

sandy coarse grainstone as
at last stop but coarser
here & massively bedded -
clearly same unit however -
sand grains well rounded &
clean

STATION #		12133		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		azimuth down		plunge	
				plunge			

gt2 sand (15%) bearing
 coarse crinoid grains -
 crinoids heavily abraded
 massive or thick bedded some
 specimens are laminarly
 bedded.

STATION #		12134		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		estimate down plunge	
						plunge	

dark gray non calc rusty grey
 thin layered siltstone laminarly
 bedded to friable & homogeneous

OS or CPM

STATION #		12135		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

med gray phyllitic m. & k
 interlayered with sub
 equal amounts of dk to
 darkish med gray non calc
 phyllite -
 60%.

me day
in all
ways.

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STATION #		12136		NTS	
lithology		N		E	
unit		S		color	
S	strike	dip	strike	dip	direct.
1	—	00	325	70	NE
		L	azimuth down plunge		plunge

table edge →

well foliated non calc
fine grained blk grey
gts weather to siltstone
weathers drab grey.
but lower portions of
etc look like possible 60k
phyllites.

These ex seem to
be gnt unit.

good crystallization
cleavage developed.

from hill on horizon dark
med grey non calc phyllites
which are locally drusy because
of thinly interbedded calc
str. fgs which weather
orangish.

STATION #		12137		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
		2		356	62	E	
S	strike	dip	direct.	L	azimuth down plunge		plunge
				2	170		12

lustrous dark gray non
 calc to very slightly calc
 silty phyllite to phyllitic
 siltstone - clearly same
 unit as last str is
 also no really diagnostic
 rx here - too light
 for XRD probably

STATION #		12138		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
				1-		018	52
S		strike	dip	direct.	L	azimuth down plunge	plunge
0		023	42	W			

very thin bedded orange
weathering phyllitic
finely xln possibly
silty dolomite. -
and grey fresh - soft.

some possible graded beds
implies tops up.

quite an elegant rock.

STATION #		12139		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	076	19	NW
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	086	25	N				

black thin bedded to med
 bedded porcellanite with
 some beds of chunky
 siltstones. grades to softer
 only weakly siliceous shales.
 more siliceous rx bedded on
 1/4 - 1/2" scale softer rx
 on 3 - 4" scale

STATION #		12140		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0///	030	25	NW
S	strike	dip	direct.	L	azimuth down plunge		plunge

platy phyllitic med grey
 calc phy f phyllitic micrite
 Good EOR but quite platy
 and dark grey probably
 implying basinal env.

has distinctive thin orange
 and grey weathering beds.

STATION #		12141		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	125	25	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

black to dk grey non calc phyllitic
siltstone to black phyllite has
some interbedded calcareous black
siltstone - much of d/c is
thin bedded with striping on
S, but it is fairly subtle -
cant get to much of d/c
to measure

not like Kechikan may be 05m

STATION #		12142		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	east with down plunge		plunge

silvery to dk grey weath thin
 bedded micrite to silty E_g
 limestone - not bad E_{OK} but
 darker than usual and with
 slightly coarser beds.

STATION #		12143		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	100	60	N
S	strike	dip	direct.	L	alternate down -orange		plunge

light grey medium to thin bedded
micale to very calc in part
laminarly internally bedded
quartz ss. fine grained to
med grained in thicker beds.

Interlayered on 10's of foot
scale with ^{med} dk grey platy arg.
lst not terribly different from
ss.

Ss is. Pale red on an ss.

platy or reminds me a little 12140 but
not orange & grey weather.

STATION #		12144		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip		direct	
						azimuth down plunge	
						plunge	

6m mouth blocky mud
 grained butite gte diorite-
 massive gray - intrudes
 dk gray to black thin
 bedded calc siltstones like

12141

STATION #		12145		NTS			
				N		E	
lithology				color			
unit				S		strike	
				0111		115°	
				dip		47	
				direct.		5	
S	strike	dip	direct	L	azimuth down		plunge
2	135	70	NE		plunge		

black non to slightly cakery
thinly & well bedded siltstones -
similar to 12141 & not like
Kechikan as no micrite and
also dark colored.

very argillaceous and quite
carbonaceous.

STATION #		1246		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				140	015	35	E
S	strike	dip	direct.	L	azimuth down plunge		plunge

med grey, thin to laminary
bedded very slightly calc
fg gte ss with grey rustous
phyllitic partings.

has color of CO₂ but doesn't
look like it is mainly
clastics - no micrite

don't know what unit

STATION #		12147		NTS	
		N		E	
lithology			color		
unit			S	strike	dip
			2	003	60
					direct. E
S	strike	dip	direct	L	azimuth down plunge
1	000	45		2	003
					plunge 00

→ rdg ↑

med gray, unmineralized bedded
 lg ~~mostly~~ non to very slightly
 calc gte 55 with luster
 med gray phy partings (ie
 nearly identical to last str)
 also a fine-med grained
 bio gte(?) diorite as cut

12144

STATION #		12/48		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				110	022	34	E
C	S	strike	dip	direct	L	azimuth down plunge	plunge
	Z	340	80	W			

med gray to dk gray lustrous phyllite
with thin⁶9² ss laminae -

Some med/dk gray
thin bedded phyllitic portions
ss layers never more than
1/4" thick - slightly
calcareous -

same unit as last 2
steps

STATION #		12/30 ⁴⁹		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

med grey lustrous wavy
 phyllitic sandstone slightly
 calcareous - grades to laminated
 saltstone / dk grey phyllite

ie same as last 3 stops

173°

STATION #		12/4 ⁵⁰		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	167	35	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge

med to dk gray slightly
 fetid and ^{fine} grained limestone
 varies from thin to medium
 bedded to massive.
 seems to have larger
 calcite grains perhaps
 implying oolitic
 grains

Wed 16 Sept 81

STATION #		12151		NTS	
lithology		N		color	
unit		S		strike	
		1		136	
				dip	
				27	
				direct.	
				SW	
S	strike	dip	direct	L	azimuth down
G	140	33	SW	1	plunge
				317	
				04	

drab olive gray green slaty siltstone
with laminar grey phyllite interbeds
and about 5% 1/4" and less thick
beds of fine grained grey
gizite giving flyschoid looking
bedding

siltstones with drab olive green
ss as. off white to orange.

Fine ss are sl. calc. - siltstones
aren't.

upper grit to 1/2.

possible brown m. thin on
S₁

STATION #		12152		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
				O		122	65
						direct. NE	
S	strike	dip	direct	L	azimuth down plunge		plunge
1	144	85	NE				

Fine to med to fine grained
 moderately well sorted g & s
 ss both calc and noncalc.
 medium to thin bedded. -
 overlain by green ^{drab to grey green slightly stony} ~~phyllite~~ siltstone
 and interbedded thin bedded
 fine sandstone - similar to
 last stop - clearly same unit
 but much more ^{coarser} clastics
 here. & less argillaceous
 minor bluish g & s in ss.

minor grey phy interbeds and
 suggestions of burrowing on
 s, surf.

STATION #		12153		NTS			
				N		E	
lithology				color			
unit				S	strikes	dip	direct.
				1	118	79	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	138	52	SW				

dark grey slaty non calc siltstone
 weakly bedded but mostly homogeneous.
 weathers a dark rusty ^{brn} grey - interbedded
 with mid grey & greenish grey
 siltstone and fine sandstone.
 The latter rx one no real problem
 for grad unit.

STATION #		12154		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	118	32	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge

gray calcareous laminarly
banded 1" siltstone to very
fine sandstone - has med gray
argillaceous partings.

STATION #		12155		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				/	128	62	NE
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	~130	~30	NE				

thin bedded dk gray very slightly
to mostly non calc siltstone and
green-gray siltstone - underlain by
at least 20' of dk gray massive
siltstone - same rx as 12153

STATION #		12156		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				0	178	SS	E
S	strike	dip	direct	L	azimuth down plunge	plunge	

thin bedded med grey micrite
and lt grey calcareous fine
grained gtz sandstone to
siltstone - looks like sandy
kechikan!

STATION #		12157		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	135	80	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

medium grained equigranular white/
 dk green speckled metabasite similar
 to SC in Smul Range - intrudes
 Kechikan which is here horizontalised
 to white hard ^{laminated} calcisilicate ^{thinly} interbedded
 with marble as seen at Gataga
 near a gabbro sill.

STATION #		12158		NTS	
N			E		
lithology			color		
unit			S	strike	dip
					direct.
S	strike	dip	direct.	L	strike down plunge
					plunge

massive fine to med grained
moderately poorly sorted
fine (a field?) ss - non
calc. - weathers lt tan
with pink tinges -
cream colored fresh.

varies to slightly calcareous - may
all be with variation due to
weathering

Grass Lks -

18 Sept 81

STATION #		12159		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				Flx	100	11	N
S	strike	dip	direct	L	azimuth down plunge	plunge	
				Str	067	5	

well foliated and moderately
linearized gte bearing schistose
metaplastic rx.

110/5 N $S_F \sim 300' N$

STATION #		12160		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
					055	14	NW
S	strike	dip	direct.	L	azimuth down plunge	plunge	
				S	062	5	

essentially as above but
has been in and out of
argen (white feldsp) bearing
zones and also zones
~20' thick where rock
is soft and fairly chaotic
presumably more abraded
equivalents

STATION #		12161		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				F	050	21	NW
S	strike	dip	direct	L	azimuth down plunge		plunge
				S	062		J

Feld chl gtz metaphonic.
 Felds are flesh to fleshy white
 colored and gtz is mainly
 rt grey - much augen feld
 in this ofc but up h. 11
 has been more augen bearing
 rx of similar compn.
 and Felds chl metaphonies
 which appear to be quite
 a bit more mafic (mostly
 lack gtz)

STATION #		12162		NTS			
		E					
lithology				color			
unit				S		strike	
				F		035	
						dip	
						10	
						direct.	
						NW	
S	strike	dip	direct.	L	azimuth down		plunge
				S	plunge		
					258		00

Flashy white feldspar + Qtz to sparse augen
 metablastic as up hill.
 up hill largest augen
 seen in more massive zones
 are 1-1 1/2" long.

STATION #		12163		N75			
				N		E	
lithology				color			
unit				S		strike	
				F		068	
						dip	
						32	
						direct.	
						NW	
S	strike	dip	direct.	L	azimuth down	plunge	plunge

tan with muscovite
 & zircon - a meta chert?
 near contact with gneiss
 but conceivably could be
 within it

19 Sept 81

STATION #		12164		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

mostly lt shive green ^{Fg.} gbsite
 with small amounts of mica
 (musc + chl.) and a peculiar
 scaly foliation apparently
 due to discontinuous lenses
 of fine grained silica with
 even finer gte + mica between
 on these metaclasts;

STATION #		12165		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
				F	038	15	NW
S	strike	dip	direct	L	azimuth down plunge		plunge
				S	245		02

cream colored micaceous
 gtzite like 164 but for
 color.

A X

STATION #		12166		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge

Y

STATION #		12167		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge

25 Sept 81

STATION #		12168		NTS			
				N		E	
lithology				color			
unit				S		strike	
				0		300	
				dip		17	
				direct		NW	
S		strike		dip		direct	
L		azimuth		down		plunge	

"metabasite" sill in Karkiken
behind -

collection of sample
of metabasite from contact
0' to ~+25' from contact
to ~14' below

The Karkiken is silty weathering
It green/white interbedded
mud + vfg calc sinter.

STATION #		12170		NFS					
N				E					
lithology				color					
unit				S	strike	dip	direct.		
				#	130	72	SW		
S	strike	dip	direct.	L	azimuth down plunge		plunge		
①	130	38	SW						

thinly interbedded grey
 or phry, olive green or
 phry and of g. or laminarly
 bedded gtz ss —
 Grit unit.

phyllites are actually better
 described as slaty siltstones.

STATION #		12171		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S		strike		dip direct		L	
						strike down plunge	
						plunge	

massively bedded sandy
 (fine sand) bedded dark
 grey lit with
~~apparent~~ minimal trash
 but nothing diagnostic

26 Sept 81

STATION #		12172		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	314	72	NE
S	strike	dip	direct	L	azimuth down plunge		plunge

med bluish gray and redish
tinged it brown ^{locally} thin
interbedded, redish weathering
v. ~~lt~~ ^{rbg} green calc silicate and
v. xln calcite med off
white → lt gray - in
contact with metabasite
as seen yesterday -
presumably hornfelsed
kechikan.

sill is ~150' thick & hornfelsing
extends at least 50' structurally
below the sill - at 50'
out are rx that look
lts SD in Anvil Range.
Several specimens taken for
thin section.

STATION #		12173		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S. l. m. & H. str.		1		112		57	
						direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

med grey to dark grey to ^{minor} black, ^{mostly} non
to very slightly calcareous phyllitic
gt to siltstone with minor
interbedded vfg gt to ss. to siltstn.
not seen below - basal
siliceous siltstone

STATION #		12174		NTS			
		N				E	
lithology				color			
unit		Silurian stsh S,		strike	dip	direct.	
				042	85	SE	
S	strike	dip	direct	L	azimuth down plunge		plunge

with patchy red tinge
 turn north a well
 foliated un bedded homogeneous
 chloritic grey siltstone -
 weathers like the sil
 siltstone - Freshest surf
 is mud greenish grey
 but it is questionably
 fresh.

determine attributes to
 last str but lighter
 colored - clearly related
 here to sil str.

Some mottling on weath
 surf suggestive of brecciating

118 / 75 NE S, ~100' to
 S - both equally good
 eds - this may be more
 representative.

STATION #		1217S		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				0	112	45	SW
S	strike	dip	direct	L	azimuth down plunge		plunge

thin to medium bedded blk
to dk gray calcareous, argillaceous
siltstone and fine possible
chert ^{gtzose} bearing sandstone also
very calcareous.

grades to paper thin silty
argillites - no graptolites seen.

not seen this unit of
dark calc clastics before -
minor mud to dk gray
chert.

paper shales

STATION #		12176		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0	138	35	SW
S	strike	dip	direct	L	azimuth down plunge		plunge

platy dk gray calcareous
laminated siltstone.

Similar to ~~parts~~ paper
parts of last of and
the dark laminated
parts of silurian
siltstone.

is this Road River or silurian
tx into Road River?

STATION #		12177		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0	110	80	W
S	strike	dip	direct.	L	azimuth down	plunge	

med grey arenite lt grey
 fresh med greenish ^{poorly sorted} very
 slightly calc ϕ ss.
 assoc. with thin bedded lg med
 grey sandstone -
 again dont know unit - doesnt
 look like WDM or Hg or EOK

STATION #		12178		NTS			
		N				E	
lithology				color			
unit				S		strike	
				1		153	
				dip		80	
				direct.		SW	
S		strike		dip		direct.	
				L		azimuth down plunge	
				1		153	
						plunge	
						#10	

thinly bedded
 med to dk grey (mainly med) calc
 argillaceous (non phyllitic) calcareous siltstone
 and calc vbg qtz ss with local cross
 bedding.

Need of o/c is non calc
 med grey phyllite - silty, phyllite
 with very thin dk grey beds
 prominent S₀ striping in
 S₁

externally like Techika but
 not lithologically similar as
 no mprite. - like cor? rx
 to S in River but not
 exactly same as them either.

STATION#		12179		MTE			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	

dk gray to black non
calc silty shale - soft non
siliceous - probably UDM

STATION #		12180		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

and olive green phyllite siltstone
 and minor red grey - not
 bedded.

STATION #		12181		NTS	
N				E	
lithology			color		
unit			S	strike	dip
					direct.
S	strike	dip	direct.	L	azimuth down plunge
					plunge

thin bedded lt grey
 med silty med to
 darkish med grey limestone
 and what appears to
 be dk grey shale -
 RR ?? - don't know with

STATION#		12182		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

dark gray ribbon bedded
sandstone and black
shale.

LDM,?

Sta 27 Sept 81

STATION #		12183		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
				0 av.	100	45	N
S	strike	dip	direct	L	plunge down		plunge

sequence of less weather
thin bedded mud brown
grey shale and mud
grey siltstone turbidites
with abundant brown
mottling overlain by dk

slimy grey silty dk
grey to black rocks, value
b. cant really get to.

The basal most massive
part is rusty but cant
see substantial 5" quartzite
assoc with 8" ixia etc.

contact between 1000
rock units is a steep fault
trending 150° 110/45 S 15 S
on E side of fault.

STATION #		12184		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge	plunge	

NEVILLE CROSBY INC.

silvery gray to tan medium
platy laminarly bedded
iron to very slightly dolomitic
argill. siltstones interbedded with
darkish med grey tan bedded
argill. siltstones - characteristic
dark curculionid streaks on
S₀ ~ 1/4" wide are brown
traces.

100/855 5, 11 S₀ sand of
of

Nand of of is tan grey medium
thin bedded heavily browned grt
siltstn to vfg ss which is slightly
dolomitic.

middle of it is black
 slightly siliceous sh that
 looks like WDM and is
 faulted against S.I str. along
 a fault striking $N/100^{\circ}$
 dipping 70 or 50 to N.
 seems to be some dk gray
 vfg gte waste in WDM too



STATION #		12186		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
							direct.
S		strike	dip	direct.	L	plunge down plunge	plunge

massive to slightly bedded
dk grey calcite mbr no
intermixed lithologies

STATION #		12187		NTS			
		N				E	
lithology				dip			
unit				S		strike dip direct	
S		strike dip direct		L		azimuth down plunge	
						plunge	

med grey and orangish
tan weather thinly layered
phyllitic med grey micrite -
possible -OK

STATION #		12155		NTS			
				N		E	
lithology				color			
unit				S		strike	
				off		dip	
				010		40	
						direct.	
						W	
S	strike	dip	direct	azimuth down		plunge	
				plunge			

black non to moderately siliceous
shale - thinly bedded

obviously ~~DM~~ you idiot!

STATION #		12189		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct	
				L		plumb down plunge	

moderately calcareous bl
 white it tan / grey
 weath massive poorly
 sorted mud gravel
 3 to 55 - 100 to 5
 like grit unit.

STATION #		12190		NTS			
				N		E	
lithology				color			
unit				S		strike	
				1		135	
						dip	
						25	
						direct.	
						NE	
S		strike		dip		direct.	
						azimuth down	
						plunge	
						plunge	

black sh. shale and
 chert to porcellanite - some
 lighter grey sh. also.
 seems to be Ferriferous
 here too -
 looks like UDM.

STATION #		12191		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	azimuth down plunge		plunge

small dc or boulder
of black cherty rx - and
gunsteele weather black
silt shale chips ⇒
UDM

STATION #		12192		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	125	70	SW
S	strike	dip	direct.	azimuth down plunge		plunge	

thinly to laminarly bedded
black to dark grey shale
and laminar weathering
(due to laminar silty beds)
dk grey siltstone ^{to very fine sandstone} seems to
be mainly gts. It is slightly
chalcous - appears to
be a sequence of turbidites

tops to SW on X beds
seen

finely sandier layers weather white
giving a distinctive ^{fine} striped
appearance to rx.

beds in mnts of dk weather
red for no good reason
some beds very rusty but no
S = seen

STATION #		12/93		NTS			
				N		E	
lithology				color			
unit		S		strike		dip	
S		strike		dip		direct.	
				color & down		plunge	

darkish mud grey calcareous
 phyllite ^{laminately} interbedded with
 lt grey grs siltstone and
 thinly interbedded with
 lt grey barren mottled
 phyllite. Some sparse
 beds of platy grey marl.

has aspects of EOK and
 OSer. - faintly similar
 to SDp of Hyland River

STATION #		12194		NTS			
		N				E	
lithology				color			
unit		S		strike		dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

poly mict grit - to worked
 from xtal lithic tuff -
 seems to have smoky glassy
 looking bipyramidal qtz
 possible felsic volcanic
 frags and also rounded
 cobbles of sandy rx
 gneiss chert flaking in
 a tuffaceous looking
 matrix -
 Tertiary

STATION#		12195		NTS			
N				E			
lithology				color			
unit				S		strike dip	
S	strike	dip	direct	L	compass strike		dip

med grey thin bedded
 lg limestone interbedded
 with med to fine grained
 soft white gaskets
 1st weather reddish grey
 gaskets turn

? unit not cut not
 cor.

MISS 2,2

STATION #		12185		NTS			
				N		E	
lithology				color			
unit		S		strike		dip	
		0		094		47	
						N	
S	strike	dip	direct.	L	azimuth down plunge		plunge

had black siliceous siltstone
 then bedded with partings
 of sooty black shale
 all now calcareous -
 overlies Keebiken looking
 mud grey phyllites which
 we can see but can't
 get to. - Nothing
 distinctive about these
 rocks to place them in
 either OSr or UDM

STATION #		12196		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

massive chert pebble congl to
 chert bearing grit - quite rich
 in green and lesser red cherts
 also a fair amount of ^{H.} grey
 chert but no dk greys or
 blacks - rock is off white
 fresh.

STATION #		12197		NTS			
				N		E	
lithology				color			
unit				S		strike dip trend.	
S		strike		dip		direct.	
				azimuth down		plunge	

blocky massive dark greenish
 gray medium grained dark
 gabbro dark px $\frac{1}{2}$ gray feldsp -
 no olivine seen -
 probably the Tvb suite.
 matrix brownish gray.

STATION #		12198		NTS			
		N					
lithology				color			
unit				S	strike	dip	direct
				0	080	55	5, ?
S	strike	dip	direct	L	azimuth down plunge	plunge	

thinly bedded greenish to
weathering and grey to greenish
crane colored vfg siliceous
rocks - may be best called
porcellanite - not sure what
unit but may be same

STATION #		12199		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

massive heavily fractured
and iron coated rock
that appears to be a fine
grained ~~at~~ fairly felsic
volcanic flow breccia. Probably
part of Tv suite as no foliation
at all. - sort of a dirty
greenish yellow or freshest set
available similar to some
of the sandstone colors.

may have amygdalites locally
but terrible at for teaching
anything - no bedding or
foliation seen just random
fractures - no sign of granular
in rock implying not a crystalline
Think I can see ^{tiny} felsic laths

Doug Perkins notes - Bear Pass followup

STATION #		12100	NTS	95E-12	
6839000		N	577500	E	
lithology			color white to tan white		
Granite -					
unit Cretaceous INT.			S	strike	dip direct.
S	strike	dip	direct.	L	azimuth down plunge
					plunge

Just Included this unit to have
representative INTRUSIVE

xstal Size 1mm (most Biotite) to 1cm
quartz & Feldspars. The only thing
different about this sample is

<1% grass green xstals 1mm to
masses? clots 2mm of Epidote?

Feldspar ~ 40% slightly weathered

grt ~ 20%? difficult to distinguish
may be very minor

STATION #		12101		NTS		95E12	
683900		N		577000E		E	
lithology Ribby weathering shale massive grey quartzite				color Black to Rusty Brown shales grey - dark grey quartzites			
unit Selkirk Devonian				S 0		strike 120	
						dip 30	
						direct. SW	
S		strike		dip		direct.	
						azimuth down plunge	
						plunge	

This is a suite of rocks collected from the first 50 M of Exposure & out of the INT. contact.

12101A - Non calcareous slightly rusty weathering poorly sorted quartz feldspars sandstone with up to 1 cm^{blk} shale frags - slight greenish ~~to~~ ringe to rock - this could be due to proximity to INT.

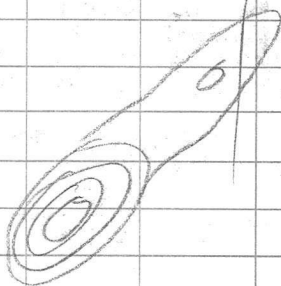
12101B - med to dark grey silty shale mod hard - light to med grey wear occasionally very rusty. - For Assay

12101C - very quartz vined & silicified blk cherty shale as 12101B but silicified - this rock is very difficult to get a good sample as the non vined material is just orange cherty (blk) rubbley mass.

12101D - Fine grained medium tan to white sandstone

Sketch of 12101 A-D locations

S



INT

12100

12101A

D₀

N

All like 12101D
white quartzite Py boxwork

Note (B&C) location is Ribby weathering
schist formation. Apparently on
strike with Black micaceous
carbonaceous ridge

End of small into white
quartzite

STATION #		12102	NTS		95E-12
6832200			N	579500	E
lithology predominately Carbonaceous shales minor sandstone & LMS			color sooty Black minor Rusty stains		
unit	UDM		S.	strike 55	dip 15 direct. NW
S.	strike	dip	direct	L.	azimuth down plunge

This unit has relatively been mapped as UDM.

Large quartzite weathering to black shaley hills. Very limited, etc but when seen displays the ribby weathering that makes one suggest siltstone. A fine grained blk sdst - quartzite directly overlies this unit apparently conformable.

Note - very carbonaceous - generally not calcareous although some carbonate (black limestone) is probably interbedded.

STATION #		12103	NTS	95E12
6831400		N	579200	E
lithology		color green matrix with Quartz Feldspar Porphyry predominant yellow white feldspars		
unit Dyke		S	strike	dip
S	strike	dip	direct	L

This is undoubtedly unit Conzo mapped as Station #

This unit is difficult to differentiate from blocky weathering grey to dark grey quartzite (sandstone) from the air.

The Dyke has a overall greenish cast to it that is occasionally recognizably but both dyke & quartzite weather in approx. the same profile.

The large $\approx 1\text{cm}$ whitish to yellowish white feldspars are the most noticeable thing is this green aphanitic groundmass.

Quartz $\approx$ to 1 cm is also found.

Biotite is also common

125/70 W. 190/103

05/30 E - Banded worm by Ba?

Will put this in as starting
later

STATION #		12104	NTS		95E-12
6833900			N	556800	E
lithology			color white to grey white rusty - black near.		
unit Dike			S	strike	dip
					direct
S	strike	dip	direct	L	plunge

usually grey white (minor tan occasionally)
generally aphanitic siliceous dike
with 10-25% 1 to 3 mm quartz
eyes & euhedral feldspars.

~ 10 samples taken for assay.
minor pyrite & pyrrhotite.

The pyrrhotite recognizable by
x shaped shape. 1 mm $\rightarrow$ 3 mm Py from
0.5 mm $\rightarrow$ 2 mm

Ridge traverse sampling
Dikes

STATION #		12105		NTS		95E-12	
6834000		N		557000		E	
lithology				color white to greenish white grey white rusty black wec.			
unit dike				S	strike	dip	direct.
S	strike	dip	direct	L	downish down plunge		plunge

As 12104 but greenish
white samples noted at contact
margins. Thin muscovite
seen in two samples

STATION #		12106		NTS		95-E-12	
6834100		N		557300		E	
lithology				color white-grey-tan Rusty-black on wea. surface			
unit Dike				S	strike	dip	direct.
S	strike	dip	direct.	L	extra down plunge		plunge

As samples 12104, 12105.
variable amount of Qtz & pyrite
This may have more py than
12105 and the same as 104
but pyrite content varies
drastically.

STATION #		12107		NTS		95E12	
6834500		N		558200		E	
lithology				color white-grey Black to Rusty Black wea			
unit Dike				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

Again similar lithology

This Dike still in

Rabbit Kettle. sample 81T0057

4 m Away but appears to
have only sampled Rabbit
Kettle as slightly on far side
of minor 2 ft deep cut.

Minor Dike influence.

STATION #		12108		NTS		95E 12	
6834550 N				558500			E
lithology				color			
unit Dike				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

Dike is
 this ~~1210~~ m. INTO Sekwi formation
 5m. across. Has white rhomb
 xstals in vein 1cm wide non-calc.
 soft. Bu? from where?

The contact with the Rabbit
 Kettle is conformable with Sekwi.

Very cold wind Blowing.

It is Definitely Bu
 but am not able to find
 any Bedded Bu in Sekwi
 carbonates & minor shales surrounding
 this Dike. Sekwi carb. is orange
 weathering with typical py nodules
 up to 3 cm.

STATION #		12109		NTS		95 E 17	
6834560		N		558560		E	
lithology				color			
unit Dike				S		strike dip direct	
S		strike		dip		direct	
L		strike		dip		direct	

This is 20 m. from last sta.
12108 This Dike is only
< 5 m. across & does not
appear different from ~~12108~~ 12108
except no veining seen.

~~The~~ The Dike is largely in
siltstone but large boulders or
fault slices of Rabbit Kettle
nearby. The base of the
large Rabbit Kettle that
8/10061 sits on has slicken
sides and the bedding does
not agree with underlying
Siltstone.

- It's cold.

STATION #		12110		NTS		95 E17	
6835100		N		559500		E	
lithology				color <i>white</i>			
				Black & white mottled near			
unit <i>dike</i>				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

Basically white aphanitic
ground mass with minor amounts
of ~~white~~ quartz eyes. Black
staining ~~out~~ along some fracture
surfaces. S.O.S.

This is ~ 30 m E of 81T060

STATION #		12111		NTS		95 E 12	
6835500 N				559700		E	
lithology				color white Black wea.			
unit Dike				S		dip	
S		strike		dip		direct.	
S		strike		dip		direct.	
				L		with down plunge	
						plunge	

white aphanitic with grt eyes
 this one weathers quite white
 is way between this & Schri
 Lmst is sample # 817071
 about 15 m from either one
 the line just rejoined the
 ridge as ridge line was
 relatively narrow. there is another
 dike between sample 95 E 12
 & Lmst. this will be 12112

Ridge was too narrow
 for Gumbo traffic.

STATION #		12112		NTS		95 E12	
6835600 N				559750 E			
lithology				color white Black weather			
unit dike				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down plunge		plunge			

Poor exposure of this <5m dike
usual white w/ qtz eyes & 2m
E Fldspar up to 1mm most
visible in aphanitic groundmass
on weathered surface. ~ 5m
up slope of sample 81T071.
qtz veining common.
minor green "stain" in some INT.

STATION #		12113	NTS	95E12
6836400N			556500	E
lithology ^{med} Grey siltstone with laminated light grey siltstone			color med grey occasional Rusty wea	
unit Sekui			S ₁	strike dip direct
				125 60 NE
S ₂	strike 150 Poor	dip 45 SW	plunge	

Large regions of this side slope
is covered by medium grey siltstone
with light grey wispy silty laminae.
These light grey laminae are usually
less than 3 mm. Commonly 1 mm.

Often they form discontinuous
wisps - fragments 3-2 mm long 1 mm
wide - This is the most common
form.

This sample was taken for
assay of any apparently bedded
pyrite - This pyrite is usually so
highly oxidized that it is difficult
to get sample. Py may be
replacing wisps.

STATION #		12114		NTS		95 E-12	
6836100 N				560500		E	
lithology				color white Black white wea minor Rust			
unit		Dike		S	strike	dip	direct
S	strike	dip	direct	L	strength & sort clasts		plunge

13 m w o r 81T083
 Sample 81T083 is down
 the slope but off the
 crest of the Ridge it is
 doubtful that it will
 have any dike material.

Dike is aphanitic white
 ground mass w/ weathered
 out pyrite < 4mm. Quartz
 & ~~the~~ Feldspar content as
 before. Recognizable xstals
 < 20 %

STATION #		12115		NTS		95 E-5	
		N				E	
lithology π				color green grey			
unit Rabbit Kettle.				S.	strike	dip	direct
					160	45	SW
S	strike	dip	direct	L	azimuth down plunge		plunge

At the base of a series of silicified slightly cooked Lmsst within a much larger Lmsst package.

Many different lites carrying various amounts of pyrite abound here. This may be part of 1216 which is taken from a few meters away am not sure if 12116 goes this low.

analyse for W, Sn primarily but should run Au, Ag etc.

STATION #		12116		NTS		95E-12	
		N				E	
lithology				color greeny			
unit		Rabbit footy		S _o		strike dip direct	
						160 45 sw	
S		strike		dip		direct	
				L		azimuth down	
						plunge	

silicified Limestone as 15
 6 m of etc. Part
 of 12117 etc This is
 basal section. Top & Bottom
 is defined by 6 inch basal dike
 No Tungsten banded in this
 area.

STATION #		12117		NTS		95E-B	
		N				E	
lithology				color			
unit				S		strike	
				0		160	
						dip	
						45	
						direct	
						SW	
S	strike	dip	direct	L	up-south-down	change	plunge

As 16 top 5m small
very basic dike separates
2 sample locations.

Note None of the dikes
in this area show w.

Aug 5th Traversed by Corcoran the
 sample BT-T-859 at LMS / Sekwi
 contact.

green & maroon shales.

S. 015 / 60 SW

S. 345 / 75 SW

STATION #		12118		NTS			
N				E			
lithology very Rusty silicified Black shale				color Rusty Brown			
unit		Sekwi		S	strike	dip	direct
S	strike	dip	direct	L	length down plunge		plunge

This ~~str~~ outcrops directly below Sekwi carbonate and a soil Traverse has been run across it.

The soil Traverse is all in grass but starts in definite Sekwi Lmsr before going into this unit. Although the Lmsr talus may cover some of this outcrop there is a break in slope at sample

81-T- where the first OTC is - OTC is ≈ 25 m long

STATION #		12200		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	160	44	SW				

Thick bedded var to sl. calcareous
 med. brn to reddish brn with
 gtz > 2 ft per grits and fine
 pebble calin interlayered w/
 var calcareous grits and brn
 to grey brn with var-
 calc. phylite

STATION #		12201		NTS			
		N				E	
lithology				color			
unit				S		strike	dip
							direct.
S	strike	dip	direct.	L	bedrock down plunge		plunge
1	010	11	W				

~ 150 m NW ridge, S. has gone over to 118/47 NE
 v. well foliated, non-cole, non-
 bedding striped pale green
 to grey green phyllite, becoming
 pale to med grey & grey green up ridge.

- @ dropoff is tan to orange to white
 (similar to BR - GU transition

@ Δ12093) but don't see
 this further up the ridge

STATION #		12207		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
1	120	62	NE				

massive to poorly foliated
 pale grey LSTN. Non-fossiliferous
 Goes up section (apparently)
 S along ridge into "Swiss-
 cheese" weath LSTN pebble-
 cobble cglm in tan weath phyllite
 matrix - similar to S by
 dk-grey argillites

Schwe

STATION #				12203		NTS				
				N		E				
lithology					color					
unit					S		strike		dip	direct.
S	strike	dip	direct.	L	calmata down plunge		plunge			

- carbonaceous facies of Sekwi as above - pale blue-grey LSTN pebbles & cobbles in a tan calcareous siltstone and silty LSTN matrix.
- also have more massive pale ~~inter~~ grey carbonate present esp. left 
- in contact up ridge (to NW) w/ med greyish green var. calc phylites that look like Gint Unit phylite

XXX END-OF-DAY XX

Aug 5/81

STATION #		12204		NTS			
N				E			
lithology				color			
unit				S		strike	
				0		005	
						dip	
						85	
						direct	
						E	
S		strike		dip		direct	
1		135		70		NE	
				L		estimate down plunge	
						plunge	

well foliated (at high angle to bedding) thinly laminated orange to tan to pale grey brown weath. Rabbit Kettle arg. and silty limestone

So here may be a fairly local ~~the~~ orientation of the fold ~~is~~ minor folds in the float here

- in contact (prob fault) to W w/ gts pebbles cglm (aer. ch) w/ minor interlayered dk grey phyllite

So in gpts @ 082/497 N

STATION #		12205		NTS			
lithology		N				E	
unit		S		strike		dip	
S		strike		dip		direct	
2		165		73		E	
		L		estimate down plunge		plunge	

- cs. ^{non} calcareous to mod calcareous
 qtz & quartz? qtz & pebbles calcareous
 w/ non calc mod to blk gray
 phyllite interbeds

STATION #		17206		NTS	
N					
lithology			color		
unit			S	strike	dip
			1	112	63 N
S	strike	dip	direct	L	azimuth down plunge
0	012	73	W		

Rabbit Kettle grey to tan with
 dk grey argill & silty
 CSN

STATION #		12207			
		N			
lithology			color		
unit			S		strike
S ₀	strike	dip	direct	L	exposure
11 S ₁	120	66	NE		

- pale grey - fm weath, dk grey, d. argillaceous LSTN

Non laminated, unlike normal R.K.

- Thin bedded

- prob is R.K. but is not nearly as silty

STATION #		12208		NT	
lithology		N		color	
unit		S		strike	
		°		165 26 W	
S	strike	dip	direct	L	eximuth & plunge
1	145	55	NE	(bedding strikes)	145 10

thinly laminated grey to tan weath
 dk grey and yellowish to sl.
 silty LSTN

- prominently jointed // S,
 bedding

STATION #		12209		NTS	
N					
lithology			color		
unit			S	strike	dip
S	strike	dip	direct	azimuth down plunge	
1	112	17	N		

massive to highly fractured,
 unbedded, fr to rusty brown
 weath. pl. to mod calcareous
 gt >> fsp & quartz

STATION #		17210		NT	
		N			
lithology			color		
unit			S		strike
S	strike	dip	direct.	L	azimuth of plunge
1	153	30	NE		

note may be sl. notatg

- massive to well foliated, sl. to
non calcareous gtz and gtz
to per pebble calum & gtz
Rare med to dk grey phyllite
chips.

XX FUEL XX

STATION #		12211		NTS	
		N			
lithology			color		
unit			S	strike	90
			1	122	
S	strike	dip	direct	L	azimuth down-plunge
0	040	18	SE		

- pale green to gray-green. Locally
 tan to orange beneath phyllites
 & phyllitic siltstones.
 Locally poorly bedding striated

- ass w/ narrow phyllites to the
 N

STATION #		12212		NTS			
N							
lithology				color			
unit				S	strike		dip
S	strike	dip	direct	L	azimuth down plunge		plunge
0	023	28	SE				

- pale to med grey green, med - calc phyllite interbedded on a scale of 5 → 20 cm w/ med brn weath. sandy LSTN and v. calcareous siltstone
- as go down ridge (down section) to NW, lose the LSTN and calc. siltstone? just have med grey green bedding striped phyllite.
- @ pickup are getting interbeds of maroon phyllite.

STATION #		12213		NTS			
				N			
lithology				color			
unit				S		strike dip	
S	strike	dip	direct.	L	estimate down plunge		plunge
1	128	72	NE				

- med grayish, sl. rusty weath
non-calc. phyllites

STATION #		12214		NTS			
N							
lithology				color			
unit				S	strike	dip	
				1	125	55	ME
S	strike	dip	direct	L	azimuth down plunge		
0	037	44	N				

- dk grey carbonaceous locally
rusty weath argillites interbedded
w/ white to dk grey fgr
qtz ss/w (non-calc).

- much small scale defn -
So measurement is only local,
but S. meas. is
representative

STATION #		12215		NTS	
N					
lithology			color		
unit			S	strike	dip
S	strike	dip	direct	L	azimuth down plunge
0	038	70	NW		

pale grey ^{weath.} massive LSTN,
 becoming conglomeratic near top
 (w/ tan weath. silty matrix).

Rare rounded black chert
 pebbles in the uppermost meter.

Interbed @ upper contact w/
 dk grey non. to mod.
 calc. argillite and siltstone.

Immed. overlain by f.r.

then weath. calcareous of sandstone

in turn overlain by dk grey,

locally crusty weath. non-calc
 argillites and siltstone — this is

the same sequence as last L.

- [Sekwi basal CO₃ overlain by
 Sekwi equiv. shales & siltstone]

Aug 6/81

STATION #		12216		NTS			
lithology				color			
unit				S			
strike		dip		strike		dip	
S		direct		azimuth down plunge		plunge	

carbonate ~~conglomerate~~ conglomerate as last
 Δ (same unit) - all in S/C
 @ upper part of rubbels patch
 have calcareous qtz + sstn
 interlayered. Conglomerate appears
 to be underlain (down slope)
 by st. calc. dk grey locally
 cherty with argillite

STATION #		12217		NTS	
N					
lithology				color	
unit				S	strike
S	strike	dip	direct	estimate down plunge	
1	120°	43	SW		

pointing @ 150/40 NE - appears
 to be at least locally
 bedding 0° elongate (oblate)
 clasts are 11 it

- LSTN column as @ last (1)
 completed w/ dk grey
 argillaceous chert clasts

underlain by grey green
 phyllite underlain by
 dk grey to black, locally
 rusty weather massive
 phyllite

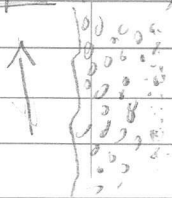
STATION #		12218		NTS		
		N				
lithology			color			
unit			S		strike	dip
S	strike	dip	direct	L ₁	azimuth down plunge	plunge
1	136	68	SW	(bedding strips)	310	21

- med to dk grey and grey green non-calc phyllites.
- vaguely bedding striped (shades of grey)
- locally has dk grey mottles and streaks - irregularly distributed
- in contact to NW along ridge w/ a narrow (<15m) section of LSTW pebble & cobble caplain as @ last 3 Δ's complete w/ dk grey argill. chert clasts & orange silty matrix
- further NW grad into dk grey fine to medly medly non-calc phyllites

STATION #		17219		NTS			
N				E			
lithology				color			
unit				S		strike dip	
S		strike		dip		direction	
0		154		90		strike down plunge	

cs gr. run tosl. calc qtz
 from pebble column, over
 red grey brn run calc
 phyllite

- good graded bedding in cs detrital
 tops to SW (~10 graded beds)
- good ripple casts on base of
 grit beds - crests hard
 (on avg) 155/100
 and are pt. asymmetric
- current direction is straight
 down the o/c (top to bottom)



looking NW

1m

STATION #				12220		NTS	
lithology				N		color	
unit				S		strike	
S				1		000	
strike				dip		direct.	
0 172				14		76 W	
dip				direct.		L	
14				E		azimuth down plunge	
						plunge	

gt + > fs per quartz and pebble
 capan. Mon - calc. Rusty
 tan to red weath - not
 sure why. Abundant leuconite
 in matrix - may be in
 part Fe-carbonate. Abundant
 narrow gt + stingers throughout
 may have had some Fe
 introduced during
 Weening

- minor non - calc dk grey
 phylite

STATION #		12221		NTS			
N				E			
lithology				color			
unit				S	strike	dip	
S	strike	dip	direct	L	azimuth down	plunge	
0	132	40	SW				

- med gray non-alc bedding
 striped (shades of gray)
 phyllites w/ narrow (< 15cm)
 bands of med bn weath.
 sandy ls TN (locally Xbedded)
 but this was seen only in
 rubble blocks.

XXX FUELXXX

STATION #		12222		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strikes		dip		direct.	
0		078		17		S	
						azimuth down plunge	
						plunge	

- med bn to rusty bn weath highly calcareous qtz grit w/ dk grey phyllite clasts
- interlayered w/ sl. to med calcareous, finely laminated cream to tan to dk. grey f. gr. qtz sandstone & siltstone
- lots of graded beds, cross beds show tops are up

STATION #		12223		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct	
S	strikes	dip	direct	strike down plunge		plunge	
0	112	72	S				

med grey green non-calc phyllites,
interlayered w/ & overlain by
sl. to med calcareous, cream
to buff to med grey bn weath
fine to cs. gr. qtz & sandstone,

- good graded bedding - top
to South

- traverse up section to
South through wavy
med to cs. qtz & rich
clastics & minor deep
phyllite

uniform S dip

STATION #		12224		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	

massive rusty with qtz
 >> fsp in pebble cgl

- no calcareous

- fsp content is a bit higher
 than typical for Grt Unit
 in this area at least —
 up to 10 → 15%

- minor box work & after
 cubic py to 1 mm in
 dia.

STATION #		12225		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	090	42	N				

- Thin to med bedded med to
 dk grey weath. dk grey sandy
~~fine~~ fine to med grained marbled,
 underlain by narrow band of
 non. calc. med grey non
 phyllite, underlain by st.
 calc. yf + pebbly
 cglm

STATION #		12226		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	102	62	N
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	072	48	Nw				

- Thinly interbedded (scale of 10 → 40 cm) pale to med grey weath non-calc sphyllite and med grey to brn weath sl to highly calcareous gtz sstn & gtz pebble cglm.
- ops are up (graded bedding)
- gtz is white to grey, rarely blue.
- rare pyrite cubes to 2 mm dia. in the calcareous gtz.

STATION #		12277		NTS			
		N				E	
lithology							
unit						dip	direct.
						plunge	
S	strike	dip					
1	030	29	SE				

- pale green phyllites & mica
pale green siliceous & etc.

STATION #		12278		NTS			
		N				E	
lithology							
unit							
S		strike		dip		plunge	

pale to med gray & gray green
 non-calc phylites going
 up section through basal
 Sekwi CO₃ (in rubble
 only) then v. narrow
 (< 30 m) of orange & dk
 gray weath v. argillaceous
 dk gray LSTN (Sekwi
 equivalent?) then up into
 orange tan weath Pabst
 Kettle

STATION #		12229		NTS			
		N				E	
lithology							
unit				dip		direct.	
S	strike	dip	direct.	L	down	down	plunge

- red brownish grey weath
Rabbit Kellee org. LSTW

STATION #		12230		NTS			
		N				E	
lithology							
unit						62	direct
		1		130		62	NE
S	strike	dip			plunge		
0	140	71	SW				

- considerable local structural complication here - Some measurement is only local

- pale grey weath ~~to~~ basal Sekew CO₂ - Mainly carbonatic facies, but some massive as well.

- overlain by ~~mass~~ dk grey non-bd. calcareous, med brn to dk grey weath phyllite w/ interbeds of med grey - brn weath sandy and silty dk grey LSTN; then up into only dk grey phyllite

- underlain by dk grey phyllite

STATION #		12231		NTS	
N					
lithology			color		
unit			S		
S	strike	dip	direct	azimuth down	plunge
?	126	37	NE		

- thick section of massive basal
Selenite CO₃ - most is carbonate
facies.

- mined overlain by ~~R.K.~~

↙
nix, nix, nix, etc.!

- overlain by nix that look somewhat
like R.K. but are actually
part of Selenite - they are
integrated over lain by
massive dk gray rusty
argillite

STATION #		12232		NTS			
N				E			
lithology				color			
unit				S		direct.	
S	strike	dip	direct.	L	azimuth down	plunge	plunge
0	108	90					

dk grey m. calc. phylite overlain
 by typical basal Sekwi LSTN
 calcareous, in turn overlain
 by thin bedded (scale of 2-210
 cm) silty and argillaceous
 med grey & tan striped LSTN
not R.K.

- locally has interbeds of
 LSTN pebbles/cobble cglm

STATION #		12233		NTS			
				N		E	
lithology				color			
unit				direct			
S	strike	dip	direct	smooth down		plunge	
0	005	46	W				

- same sequence as last (2)
- parts look somewhat like R.K. but have LSTM cglm like Sekwi interbedded throughout

STATION #		12234		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	120	62	NE
S	strike	dip	direct	L	azimuth down plunge		plunge
2	120	64	SW				

- normal garden variety Bunny
Horn Fm - thinly laminated
tan and brownish gray argillaceous
and silty dk gray LSTN

12235						
lithology						
unit			\$	strike	dip	direct.
			1	090	39	N
S	strike	dip	direct.	azimuth down plunge		plunge
0	078	70	S			

50 @ 075 / 32 N upslope from C₃
 down slope

- "Synformal infold" (Uep!)
 of Sekwi cglm underlain
 by med to dk grey bn,
 slt calcareous phyllite,
 in turn underlain by green
 phyllite

- grey bn phyllite is fairly
 thin — < 20m

XX FUEL XX

STATION #		12236		NTS			
				N		E	
lithology							
unit				S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	~ 45°						

- thin to thick bedded (up to 1.5 m)
highly calcareous gtz ss &
quartz - Good graded beds -
tops are up.

- narrow intervals of dk grey
calcareous argillite

STATION #		17258		NTS			
		N				E	
lithology							
unit				S		direct.	
S	strike	dip	direct	L	azimuth down plunge	plunge	

rusty with dk gray
shales in S/C - recessive
part of Sekwi equivale
shales.

- underlain by a variation in
the basal Sekwi conform-
LSTW & calcareous sandstone
(minor) clasts in a calcareous
sandstone matrix. Also have
^{massive} med bed with dk. to non
calcareous gts & sandstone
associated - presumably
bedded, but all in rubble.

STATION #		12239		NTS			
		N				E	
lithology							
unit				S		dip	direct.
S	strike	dip	direct.	L	estimate down plunge	plunge	

gossan -- cold CO₂ spring
 large tufa deposits all
 around -- no rock

XX END OF DAY XX

Aug 7/81

STATION #		12240		NTS			
				N		E	
lithology							
unit				S		dip	direct.
S	strike	dip	direct.	L		azimuth down plunge	plunge
0	061	41	SE				

- thin bedded white cream and dk grey
non calc. f.g.r. gtz ssstr.
- have thick interbeds of what
appears to be a cobble
calm - non calc massive
gtz ssstr clasts in a ssstr
matrix

- could be an even more
sandy variant of last days
Sediment

STATION #		NTS			
		N			E
lithology					
unit		S	1	141	80
		azimuth down plunge			direct. NE
S	strike	dip	direct		
0	175	37	E		

- dk grey, rusty weak non-coal
~~asphatic~~ phyllite. Vaguely bedding
 striped

STATION #		12242		NTS			
		N				E	
lithology							
unit						direct.	
S	strike	dip	direct	L	azimuth down plunge	plunge	

tan to grey to rusty to rusty
 brown weak, massive, highly
 fractured fine-grained non-calc.
 gtz ss. sh.

Barabone Koggs.

STATION #		12243		NTS			
		N				E	
lithology							
unit						direct.	
S	strike	dis	direct	L	app. down	plunge	

start out in dk grey to grey bn
 banded siliceous siltstones
 & minor dk grey phyllite
 - Go up section into banded red to
 dk bn & grey bn calc siliceous
 white to cream marble. Further
 up section into red greywacke,
 thinly bedded marble &
 sandy marble. V. minor (STN
 cobble calc (a few angular
 boulders seen.

- overlain by rusty weath.
 dk grey phyllite w/ "spots"
 (pyrophyllite)
 cut by bt-grt - fs per porph
 dykes

STATION #		12244		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct. L	
						azimuth down plunge	
						plunge	

thin bedded (scales of 1-4 cm)
 cream & med brown calc shale
 similar to that seen in
 Selawi @ last Δ

STATION #		12245		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

rusty with dk green var color
var. bedding striped siltstone

STATION #		12246		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

dk greyish phyllite as
above w/ narrow interbed
of sl. to med calcareous,
med grained highly
botte hornfels - not sure
what patch was - prob
an impure gtz str.

STATION #		12247		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
	145	51	SW				

- Thick-bedded pink to tan weath calcareous & dolomitic f. gr. qtz. ss. locally finely laminated. has a narrow (< 5 m) interbed of v. f. gr. non calc. qtz. ss.

- Looks like sequence that replaces upper Sakuragi equiv. box SE of Caesar Lts.

STATION#		12248		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	estimate down plunge		plunge

- Real "Swiss Cheese" LSTN
 - N. of Cushing

- tabular cobbles of blue gray
 weath LSTN w/ rounded
 edges in a v. persistent
 weath, tan to red brown weath
 silty matrix. Minor interbeds
 of thin bedded calcareous
 glt rstr

XX FUEL XXX

STATION #		12249		NTS			
				N		E	
lithology				color			
unit				S		strike	
						148	
						dip	
						50 NE	
S		strike		dip		direct. L	
0		065		26		NW	
						azimuth down plunge	
						plunge	

Thick bedded sl. to mod
calcareous qtz grts
w/ v. minor interlayered
dk gray var calc phyllite
(thick turbidites)

-overlaid by dk gray var calc
phyllites

STATION #		12250		NTS			
				N		E	
lithology				color			
unit				S		strike	
						dip	
						direct.	
S		strike		dip		direct.	
						L	
						azimuth down plunge	
						plunge	

- non calc pale grey to med rusty
brn weath, thick bedded
gt + > fsp + pebbles caln.
underlain by rusty tan to brn
weath sandy ls + w/
dk grey phyllite interbeds

STATION #		12251		NTS			
		N				E	
lithology				color			
unit				S	strike	dip	direct.
				1	103	37	S
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	135	90					

- U, dk maroon and pale green
bedding striped, non-calcareous,
phyllites

STATION #		12252		NTS			
				N			
lithology				color			
unit				S		strike	dip
S		strike	dip	direct.	L	azimuth down plunge	plunge

- d. calcareous gt 77 fsp. grit
 & pebble calcs. in contact
 to S w/ sandy fm LSM
 E, dk grey, bedding stupa,
 non-calc phyllite. Same
 sequence as Δ 12250

STATION #		12253		NTS			
				N		E	
lithology				color			
unit				S		strike	
				1		079	
				dip		21	
				direct.		N	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

dk gray, locally rusty weath,
 locally bedding striped
 med. calc phyllite w/ narrow
 white to pale gray siliceous
 siltstone interbeds to 4cm

STATION #		12254		NTS			
lithology				N		E	
unit				S		strike dip direct.	
				1		115 46 S	
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	135	44	SW				

same sequence as above
exactly!

STATION #				NTS			
N				E			
lithology				color			
unit				S			
				strike		dip	direct
S	strike	dip	direct	azimuth down plunge		plunge	
1	156	53	NE				

- med to deep grey to dk greenish-grey, faintly bedding sharp
non calc ~~etc~~ phyllite

locally ~~has~~ rusty weath

- ~~etc~~

STATION #		12256		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

rusty brown to dk grey weath
 dk grey var calc phyllite
 (@ CBC upstate)

STATION #		17257		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge		plunge

massive con to d calc
f.g.v. gt + sandstone. Pale grey
to med brown weath, mid grey
brown fresh

B. R.

STATION #		12758		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike dip direct.		L		azimuth down plunge	
						plunge	

- pale to med grey-green and
v. deep maroon and purplish-grey
bedding striped phyllite

STATION #				12259		NTS			
				N				E	
lithology						color			
unit						S		strike dip direct.	
S		strike		dip		direct.		L	
								azimuth down plunge	
								plunge	

normal garden variety bed
 Sakur LST N 1#
 calc qtz sdsl stable
 color, overline by dk
 grey to rusty brown weath
 dk grey non calc phyllite
 & minor phyllitic siltstone

NEVILLE CROSBY INC.

STATION #		12760		NTS			
N				E			
lithology				color			
unit				S,	strike	dip	direct.
					133	48	SW
S	strike	dip	direct.	L	azimuth down plunge		plunge
0	103	23	S				

in R.K.

contact between red and green
phyllites - E Rabbit Kettle
argillaceous LSTN

appears to be a steep fault

- have boulders of basal Selkirk
LSTN cobble ~~cap~~ along
the contact @ one location
can't find in O/C

~100 m SSE along contact
have highly wangled rusty
iron-calc phyllite

STATION #		12261		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
1		000		17		E	
				azimuth down plunge		plunge	

maroon & green phyllites

STATION #		12262		NTS			
		NI				E	
lithology							
unit		S		strike		dip	
S		strike		dip		direct.	
				ex north down		plunge	

narrow bed of Sekwi (STW)
conglomerate w/ in dk grey

STATION #		12263		NTS			
						E	
lithology							
unit						direct.	
S	strike	dip	direct	L	distance	plunge	

- Siskiyou LSTN cobble cglm
w/ dk grey rusty non-calc
argillite

- not sure what is going on
street here — seem to
have CO₂ interbedded
on a scale of several
meters w/ dk grey
argillite

STATION #		12264		NTS			
						E	
lithology							
unit						dip	direct.
S	strike	dip	direct.	L		plunge	

- orange weath (st. dolomite?)
 thinly laminated silty &
 argillaceous dk grey LSTN

- avalies upper Schwi pole
 blue-grey weath CO₃ —
 at least in part ~~are~~ fine
 cobble congl. in CO₃
 matrix

STATION #		12265		NTS	
		N		E	
lithology					
unit					
S		strike		dip	
				direct	

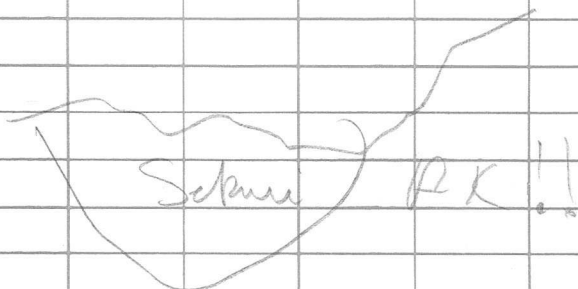
symmetrical infold (!!) of (apparent)
 Sekine calcareous fgr. gtr
 ash and pale blue grey weath
 LSTN pebble/cobble calc w/
 minor tan weath silty matrix

- silty

- silt thrust above tan weath

Thinly laminated silty & argillaceous

Many LSTN — looks like RK



END OF DAY, PROJECT, ETC.

Bear Pass Revisited

Aug 8/87

STATION #		12266		NTS			
		N				E	
lithology							
unit				dip		direct.	
				148		73 NE	
S		strike		dip		plunge	
0.2 (C.L.)		162		43 NE			

med to dk grey and grey brn,
locally purplish brn
non - calc spotted boulders

- v. rusty weath

- rock is 20-60% rounded
dk grey p'blasts (cordierite?)

- have a vague sense of camp
larging (as given)

STATION #		12267		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	L	down	pages	
0	126	80	NE	1?	310	21	

- isoclinal fold ($\lambda = 4m$)
 in thinly layered siliceous
 calc. silicates pinned adjacent
 to a st. quartzite streak.

- Same dykes extending and
 into the ~~basal~~ beds.

- These calc. silicates look
 somewhat like some of the
 hornfelsed basal ~~siliceous~~
 seen yesterday, but could
 be related to Grit Unit

STATION #		12268		NTS	
lithology		N		E	
unit		S		strike dip direct.	
S	strike	dip	direct.	L	azimuth down plunge
0	100	62	N		plunge

- thinly to med. ~~to~~ bedded
v. calcareous f. to med grains
gt + str and grits
(Ant Unit)

- Traverse a couple of 100 m
down ridge to South through
most of the same - and up
in interlayered orange weath
sandy carbonate (prob of
dolomitic but no time to check)
and med grey-green phyllite

w/ So. @ 155/90°

STATION #		12269		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		plunge	

- mainly med bedded br
 weath med calcareous
 med gr. gtz sstr
 w. interbeds of dk grey, non-calc, locally
 bedding-striated phyllites
 and phyllitic ~~siltstone~~
 siltstones

STATION #		12270		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
D		169		71		E	
				azimuth down plunge		plunge	

-med blue-gray weath f. gr.
 sl. foliated marble. Overlain
 by med to dk purplish brown
 and minor pale greenish gray
 non calc phyllites

STATION #		12271		NTS			
		N				E	
lithology							
unit				strike		dip direct.	
S	strike	dip	direct.	azimuth down		plunge	
0	025	11	SE				

thinly interbedded (scale of ≤ 10 cm)
 pale grey weath. mottled sandy
 variable and highly calc.
 fine to med grained gtz
 55m.

- a single narrow (0.8m) fill
 of rusty weath. bt porphyry

STATION #		12272		NTS			
		N				E	
lithology		color					
unit		S		strike		dip	
S		strike		dip		direct.	

- tan to rusty orange weath
fine grained white to cream
grite

XX FUELXXX

STATION #		12273		NTS			
		N				E	
lithology				color			
unit		S		strike	dip	direct.	
		1		125	72	NE	
S	strike	dip	azimuth	azimuth down plunge		plunge	
-	008	45	E				

bedding striped med to dark
maroon phyllite

- U. minor interbeds of pale
green phyllite

- ripple axes @ 113/30 preserved
on bedding planes locally
ripples are either symmetrical
or show asymmetry in both
directions

STATION #		1274		NTS			
		N				E	
lithology							
unit				strike		dip	
S		strike		dip		azimuth down plunge	

mainly thickbedded (1-3 m)
 non-calcareous qtz-grit and
 qtz > fsp pr pebbles cgl
 w/ minor interbedded dk grey, non-
 calc.

- cut by med grained massive
 Hbl > fsp perphyry dyke @
 ~ 076/90° 2/5 m thick.

STATION #		12275		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
°		005		65		E	

- med to pale grey weath, thinly laminated, silicated fine grained marble and minor quartziferous calcisilicate, overlain by dk grey to rusty orange weath, hornfelsed non-calc phyllite.
- cut by a narrow glt-biotite porphyry dyke.

STATION #		12276		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				north down plunge		plunge	

- med grained lt qtz monzonite
cut by (apparently) aplitic
qtz. fsp porphyry dykes /
sills

- all med grey and rusty brown
weather

STATION #		12277		NTS			
		N				E	
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct.	L	azimuth down plunge	plunge	

massive white to rusty orange
 weath. at 7 ft. from top purple
 as a last ②. Appears to be
 a fairly large body continues
 for @ least 100m to the W along
 the ridge @ pickup pt have
 0.1 m.

STATION #		12278		NTS			
				N		E	
lithology				color			
unit				S		direct.	
				1		165 46 E	
S	strike	dip	direct.	L	strike	dip	direct.
0	135	26	N6		strike	dip	direct.
					strike	dip	direct.

- fine grained pale greenish
gray weath g slate (locally
w/ white weath fsp. up to
2 mm dia)

w/ minor interbedded dk grey
mud. weath phyllite.

STATION #		12279		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	
1	155	40	NE	bedding shape	045	38	

~~at~~ med to dk grey var. color
vaguely bedding shaped
phyllite

STATION #		12280		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
173		39		E			
L		azimuth down		plunge		plunge	

med to dk rusty brn weath
 purplish black f. gr. bt. mass-
 andulante schist - high-
 grade hornfels (near a granitic
 body)

STATION #		12281		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	0	strike	dip	azimuth down		plunge	
		105	40	N			

fine grained, var. - calcareous, white
to cream to v. pale green
locally rusty weath. thinly
laminated gft str.

minor interbedded dk grey,
var. calc., not-bedding-
striped phyllite

STATION #		12282		NTS		
		N		E		
lithology			color			
unit			S	strike	dip	direct.
S	strike	dip	direct	azimuth down plunge		plunge

- calcareous & t₂ > f₃ par
 opals & breccia sandy
 med. grained marble

- cut by a greenish grey
 weath. f₃ parphy
 dyke that from the air would
 look v. similar to the calc.
 opals.

STATION #		12283		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				1	155	52	NE
S	strike	dip	direct.	azimuth down plunge		plunge	
				103		16	
axis							

- isoclinal fold ($\lambda \geq 3m$)
 in Backbone Ranges - Interbedded
 non - calc ls with wealth f.g.
 qtz ss (micaceous) and
 med grey and grey ls
 non calc phylites

- forms an isoclinal antiform
 overturned to the SW

STATION #		12284		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge	plunge	

mainly med to dk grey and
grey bn locally rusty
weath dk grey phyllite
& phyllite shales siltstone
w/ interbeds to 10 cm d
non-calc med bn weath
f. gr. gtz sstn. Same
sequence as last Δ

(B.R.)

STATION #		12285		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down plunge	plunge	

(all in 5/c)

interbedded horn to fine weath
argillaceous LSTN and v.
calc. enophite, and
red to dk gray, ~~to~~ locally
rusty fine weath, non calc
phyllite.

STATION #		12286		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

very rusty weath, dk grey,
 platy - weath banded
 pyritic argillite & phyllite (prob
 same siltstone as well)

- v. pyritic as v. f. gr.
 disseminations.

- looks like Sekwi equiv.
 shales. cooked up a bit
 adjacent to the granite-

underlain by LSTN (pebbles/
 cobbles) boulder conglom -
 in resistant red gray silt
 matrix w/ narrow interbeds
 of red-alc siliceous siltstone

STATION #		12287		NTS	
		N		E	
lithology		color			
unit		S		strike	dip
				direct.	
S	strike	dip	direct.	azimuth down plunge	
0	103	83	S	plunge	

- traverse to N towards last Δ

- start in med grey & greyish sl. rusty weath. non-calc phyllite, then into Swiss-cheese w/ interlayers of interbedded grey & STN and resistant weath. siliceous siltstone, then into dk grey, v rusty weath. pyritic, locally hornfelsed (purplish) argillite as @ last Δ

- looks like same sequence as last Δ but on other side of fold (sequence is reversed)

STATION #		11288		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	azimuth down plunge		plunge	
0	112	75	S				

2m upper Co₃

—massive, pale grey weath, pale to med grey LSTW. overlain (apparently) by a darker grey and grey-brown weath, dk grey thinly laminated silty LSTW. w/ X bedding in some beds showing tops to South

upper Co₃ looks similar to R.K. lower one could be Sekwi, but not enough of QC could be reached to be sure

X & REALLY the END XX

Chopper hopping in Cross Lake Sept 24

STATION #		12289		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct	
S	strike	dip	direct	L	azimuth down plunge		plunge

rubble of felsic metavolc -
rare K-feldspar eyes. Appears to
have minor undeformed quartz
or feldspathic quartzite (meta
chert or trypocous chert)

no carbonaceous material

no quartz eyes, only K-feldspar

STATION #		12290		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
?		008		43		E	
				azimuth down plunge		plunge	

as above - no gkayes, only
1/2 gkay

no carbonaceous material

STATION #		1229/		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct
S	strike	dip	direct	L	azimuth down	plunge	
1/2	rding.				plunge		

- thinly layered & massive
of size w/ rare 1/2 sparsely
to 1mm - metastable interbeds?
- locally have brittle parting

STATION #		12292		NTS			
N				E			
lithology				color			
unit		S		strike		dip	
S	strike	dip	direct	azimuth down		plunge	
'?	080	20	S				

v. siliceous fgr. quartz and
feldspathic quartz - some has
greenish streaks that could
be string and wafers in a
mylonitized plutonic - overall
aspects of a metased
though.

rare dissemination of
molybdenite

→ calcareous - appears to be a
calc-silicate

STATION #		12293		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S1?		strike		dip		direct.	
C.L.		~ horiz.					
				azimuth down		plunge	

S.U. micaceous grites - thin, comp. bedded - a narrow dk grey band ~ 10 cm thick is present - metatic grites, not carbonaceous

LIARD - E side of Che Mtn.

mm

STATION #		12294		NTS			
N				E			
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- Thin to med bedded locally thinning laminated dk grey, sl. fold LSTN & argillaceous LSTN w/ black shale partings

STATION #		12300		NTS			
				N		E	
lithology				color			
unit				S	strike	dip	direct.
				0	055	50	NW
S	strike	dip	direct.	L	azimuth down plunge		plunge

thin to medium bedded darkish
medium grey non foliated granitoid -
weathers medium grey Not
sure what unit other than
probably the mdr or older
sequence

STATION #				12301		NTS			
				N				E	
lithology				color					
unit				S		strike		dip	
S		strike		dip		direct		L	
						azimuth down plunge		plunge	

yellowish tan weather - light yellow
 poorly sorted medium grained
 gta sandstone - massive
 cut by gta veins in places -
 quite vuggy. looks like
 its quite young. Test ?? ~~it~~
 mainly because ~~weathering~~ it doesn't
 seem very lithified but may
 just be due to weathering of
 hydrothermal alter. - has small
 globules of metallic steel, round
 on joint surfaces - may just
 be hematite but could be some
 galena & sphalerite.
 don't know what.

STATION #		12302		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
				0 ₂	065	16	NN
S	strike	dip	direct.	L	azimuth down plunge		plunge

fine chert qtz + qtzite congl
 to grit - poorly sorted -
 greenish cherts common
 (creath white) black chert
 not common - no other
 lithologies obvious -
 light colored rock not
 the usual WMA spec

massive - can't get
 a bedding

STATION #		12303		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge		plunge

massive outcrop of rock
to slightly darkish and grey
dirty rocks and a tan
colored slightly more granular
siliceous rocks - heavily
moss stained - some
strange iridescent coating
on some specimens reminds
me of barnacle but doubt
it is. - don't know
what these are but
the tan specimens are the
same as 12199 and the
red m. chry. may be
the source of frags in
the cage at the last str.

STATION #		12334		NTS			
				N		E	
lithology				color			
unit				S ?		strike 349	dip 45
						direct W	
S	strike	dip	direct	L	azimuth down plunge		plunge

It gray to off white
 weathering off white with
 orange tinge moderately
 fractured very finely
 granular to almost cherty
 quartzite rocks - have
 strongly lenticular laminar
 texture & don't quite
 understand - "bleaching"

STATION #		12305		NTS			
				N		E	
lithology				color			
unit				S		strike	dip
S	strike	dip	direct	L	azimuth down plunge		plunge

gte and minor feldspar
 phenocryst bearing very
 sparsely porphyritic feld-
 spodumene is fine to
 and ground unhealed
 gte and feldspar - has
 a few % green magnetite
~~at~~ which may be
 only matrix but could
 have some hornblende -
 looks like a tertiary
 intrusive.

STATION #		12306		NTS						
				N		E				
lithology				color						
unit				S		strike		dip		direct.
S		strike		dip		direct		L		azimuth down plunge
										plunge

dark gray iron calc shale
to slate and dark gray
argillaceous limestone
OS, or possibly WMA?

STATION #		12307		NTS									
				N		E							
lithology				color									
unit				S		strike		dip		direct			
S		strike		dip		direct		L		azimuth down plunge		plunge	

dk grey non calc
 Silken's shale - no
 grapholites - nothing
 diagnostic

STATION #		12308		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

4' bluish bed of tan to
lt brown weath. calcareous
partly sorted med. grained
dark gray gte ss has
minor bluish gte -

it has chips of dk
gray chert - it's gray
weath. platy dk gray
limestone and black
chert.

NE-SE of Whitefish LK.

June 14/81

STATION #		14000		NTS			
		N				E	
lithology gtzite				color white weath. pink to buff fresh			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	asimuth	pitch	plunge

- massive gtzite / gtz sandstone
- medium to coarse-grained; moderately to well sorted.
- rounded clear qtz grains to 1 cm diameter
- no measurable structures.

STATION #		14001		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- pale green chlorite and muscovitic
gtzsch schist and siliceous
musc. chlorite - gtz schist
- non-calcareous
- sl. rusty weath.
- has rhombs of plagioclase (?)
- pronounced schistosity @ 000/82E
(good)
- later locally dev. crenulation
cleavage
(no time to measure)

STATION #		14002		NTS			
				N		E	
lithology				color			
altered basalt				purplish brown to dk. green			
unit				S		strike dip direct.	
ARG							
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

- massive sl. rusty orange-brown
weath. olivine(?) - phytic
meta basalt
- no foliation dev. at all

STATION #		14003		NTS			
N				E			
lithology basalt & chert				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- massive f. grained siliceous - phytic
dk purplish brown rusty weath
basalt
- two basalt o/c ~ 100' apart
are separated by an o/c of
massive whitish to pale grey
weath bleached f. gr. quartzite
(meta chert). Chert is pale to
med green fresh

STATION #		14007		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- sl rusty, med brown weath "glatter-breccia" - layering still visible in some fragments - layers have been "exploded" & infilled w/ carbonate spar.
- rock frags are rusty weath, fine grained, Pale grey green & siliceous

STATION #		14005		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
0?	1/4	35	SW				

- v. fine grained, med to dk grey, pale to med grey weath gtzite w/ v. narrow (< 2 cm) interbeds of dk grey^{at} phyllitic gtzite. Gtzite beds are > 10 cm thick
- locally there is a v. faint color banding (shades of grey) in the gtzite - roughly || the layering defined

STATION #		14006		NTS			
				N		E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
?		045		21		NW	
				azimuth down plunge		plunge	

- fine grained sl. foliated diorite
- good relict granular texture

STATION #		14007		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- v. fine grained pale green and
dk grey phyllitic gtzite.

STATION #		14008		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge
?	148	35	SW				

- phyllitic gtz granule grit - blue gtz eyes to 3 mm dia
- v. chloritic on partings.

- the measured foliation is v.

pronounced & is extensively wrinkled @ random orientation

STATION #		14009		NTS			
				N		E	
lithology				color			
A							
unit		ARG		S	strike	dip	direct.
S	strike	dip	direct.	L	azimuth down plunge		plunge

- fine-grained aphyric pole to med green massive basalt
- sil rusty weath

STATION #		14010		NTS			
		N				E	
lithology				color			
unit				S		strike dip direct.	
S		strike		dip		direct.	
				L		azimuth down plunge	
						plunge	

- v. fine grained med to pale grey
weath. med to dk grey, v. fine -
grained, thinly laminated g/tite

- ~~bedded~~ layering @ 147/57 NE

STATION #		14011		NTS			
N				E			
lithology				color			
unit				S	strike	dip	direct.
S	strike	dip	direct	L	azimuth down plunge	plunge	
	146	44	NE	10	109	22	

- dk gray, sl rusty weath
 very siliceous phyllite to fine gr.
 phyllitic qtzite

STATION #		15000		NTS		105H	
				N		E	
lithology				color			
m basalt				lt olive gn.			
unit				S		strike	
ARG?				Jt		075	
				dip		90	
				direct.		—	
S		strike		dip		direct.	
L		azimuth down		plunge		plunge	

massive heavily fractured
mud basalt of probable
ARG - no prev. metam foli-
can see what felds laths
very hard & looks like it
could be siliceous but probably
basaltic.

o/c surf is bubbly suggesting
originally lake bas. but
not clear on fresh surf.

weathers to the typical orange
tinged grey.