

Hope Area **BZ1045** 092H/15  
aug 23/83

H2507 start ✓

Reguson Creek **BCS 0445**  
wid. FK 6262  
54607 ✓

Manning Paul Border **BCS 446**  
FK 6318  
54575

Road to E of Hope slide  
- up to 3300 ft, little  
o/c (2) but what is  
present intermediate <sup>to massive</sup> tuff,  
massive, med. green, finely  
xline

- Andesite tuff  
- tr. py. to 1%

H2507 910 me (860 me) ✓ 2820 ft

? based w/ local Bi on  
fracture surfaces  
± cut w/ py using lenses  
to scars

→ sawed number suggests  
could be PB, <sup>from</sup>  
contracting vesicles sizes  
→ PPB but elsewhere  
where multiple intrusions + wright  
- trace Coy or open  
fracture ≠ PD

- PPB -

860me

elsewhere agglomerate  
(tuff Bx) angular  
light green frag.  
in darker green matrix  
-o/c massive, no beds

H2508

800me

2600ft

- as above mafic fragmental andesite tuff Bx (aggmt)
- masses of green amphibole randomly oriented throughout
- trace finely xlns py to 1%
- massive

H2509

700me

3000ft

andesite <sup>aggmt</sup> fragmental <sup>to tuff</sup> as above, elongate subangular fragments (? whiskers)

- Ms - Bi along fracture planes
- 1-2% finely xlns py
- + 1-2% py along fractures

SWITCHBACK



planes

- in places looks slightly bleached to mottled but no difference in shades
- c. very tall chert lenses
- irregular discart. veins



→ Peers Creek; new road not on our photos

- end of road 1350m (3592')

→ 4.1 km from top @ 1095 m begin unimbricate weathering argillites / phyllites with thin chert bands & lenses  
↓ 165° vertical but cr. → micro fold

→ 100 m to switchback  
1105 m (3624')

+50m ↓ 180/60w

BCS 0448 rusty weathering  
~~argillite ± chert bands~~

- very contorted, sheared,  
shattered  
- graphitic

+150m 160/70W 1125 me  
(3690')

+150m fault in graphitic <sup>1150 me</sup>  
argillites w. some small  
scale BR, Q veins +  
shearification  
est 170/vertical ↗

+150m dent x cutting  
faults → some of  
weathering + fracturing rock  
→ sense of shear  
smear out along  
fault planes 1160me  
(3804')

+20m same 1160me  
(3804')

+10m 1160me  
HZ 510 (3804')

↔ opposite Capelli tuff;

- weathering surface suggests  
walcove Bx - Jagget 757

680m

+ 740m 12 km/mile

780

relatively fresh with angular  
darker green lapilli  
sharp apt light green  
ground mass containing  
lighter green more  
diffuse lapilli?

- 1-2% po in mm clots
- relatively fresh except for  
whorls along slickensided  
surfaces
- apt irreg. discart

Quartz but no real evidence  
of faults at this station  
→ faults between or apt  
Quartz + shatter

+100m

dikes  $F_p \phi$  - diabase  
(3788)

dikes - are large? 5

- ground  $F_p$  to 2cm up to  
15%

- trace cpy, 1% po locally

- no real chilled or bleached  
zone.



H2  
511

- + 50m low angle igneous
- + "pillow-type" weathering dikes → mafic dikes
- pillowed andesite ?
- small scale pillows → pillow Bx
- w. diabasic material in other areas of o/c
- flow interpretation
- ? pressure alt in P And but diabase, 1/2 fresh

+ 20m core 1150m (3772)

H2512

+ 150m

fragment

1140m (3739')

- andesiteuff or pillow Bx - large fragments surrounded by linear patterns in matrix plus lapilli size fragments
- relatively fresh
- 2-3% p<sub>o</sub> finely clotted
- + smeared out along fractures

30  
1.18 km

was sheared while  
soft

GVA: multiply intruded  
gabbro i.e. an initial  
pulse partly solidified +  
was re-intruded → fragmented  
by a second pulse  
- worked out py cubes  
along open fractures  
→ GABBRO

SWITCHBACK

COVER.

+100m → argillites, waxy  
very shattered FAULTS

+80m as above if not possible  
plus ? little waxes or  
fault product?, alnt  
Querns 1120m.  
(3673')

+30m arg ± cherts, very  
deformed, recrystallized  
→ COVER  $\{$  fault  $\}$

H2 513 +120m 1130m (3706')  
- andesitic volcanic ? alnt  
chlorite on slickensided  
surfaces  
- vague fragment shape  
suggested, might be andesitic  
tuff / agglnt  
- chlorite ? saussurite  
alteration volume

+20m switchbacks 1125m  
(3696')

Total 1.74 from start  
at 4.1 km from top



→ dykes do below (3783)

H2514 +130m 1155me

as before andesitic  
lapilliuff tho maybe  
larger fragments difficult  
to 1800

- vauzeitized? / chloritized  
as before - very soft  
- chlorite along slickensided  
surfaces

(3821)  
+100m 1165me

→ cherts + argillites + shales  
shear → likely fault

+150m start of VC  
+40m Steve Puddys

H2193 1185me  
(3837)

Second Leap Frog  
from 4.1 km at top

1500ft

→ Bottom at bridge 485me

+100m → 515me switchback

755 ft

+230m 565m d/c  
- Qtz, dark grey, finely x line  
Plus chert, dark grey, conchoidal  
fracture  
- no red beds -> h. folded

\* +70m 165/75 S ✓ 560m (1740 ft)  
- Q to little wackes  
argillites + chert  
→ argillites

+170m 1920 ft  
585m  
→ argillites dominates

#2515  
~~+150m~~ @ 9 1/2 km (P. nudo) mark  
595m (1950 ft)  
- andesite capilli tuff,  
fresh, massive, minor crossite  
alteration  
- h p

+130m 610m SWITCHBACK  
2000 ft

#2516 +20m 620m  
2035 ft

LEVEL

1 km

1.03 km

SWITCHBACK

andesite lapilli tuff  
locally bleached +  
silicified, elsewhere may  
be unconsolidated

2150 ft

→ 655m + 190m  
cherts, argillites, shattered

+ 30m switchback / curve  
680m 2230 ft

→ 42517 andesite lapilli  
tuff, light green in  
colour, well silicified  
in shattered / sheared  
contact w. pyrite-bearing  
cherty argillites

✓ 175 / vertical ✓

- alt. meg. Quens. BxR  
(small-scale)

- arg >>>

→ CURVE

725m + 170m SWITCHBACK  
2385 ft



→ H2518

~~sandstone~~ → basalt, very  
light green, finely crystalline  
- no texture visible, soft  
→ chlorite alteration  
- 1-2%  $P_0$ , ↑ w. more  
coarsely ex. ch.  
lenses

+100m → argillites

2445 ft

+100m curve - 745me

2510 ft

H2519 +100m 765me

~~sandstone~~ lapilli tuff  
light green, saussurite  
w. 1%  $P_0$  abnt.  
- chl along slickensided  
surfaces

+100m 10m mark,  
Old Road to left (up)

+100m 780me

CURVE

→ CT - 2-3

Fp porphyritic 10-20%

mod. crystalline

no plagi

Q - 40%

→ granodiorite

550

→ PC 1 Fp  $\phi$  intrusive,  
light grey green  
medium crystalline  
- massive o/c weathers  
light grey

+100m 800me (2625ft)  
argillites, shattered  
probable faults/shears

+300m o/c discontinuous

✓ 2790ft  
200m switchback 850me  
w. abundant  $\phi$  bedded  
argillites → discontinuous  
no o/c

+200m discont argillites  
v. shattered

+155m 10 1/2 onlo mat

2985ft  
H2520 ✓ +50m 910me

- andesite lapilli: tuff  
insaisants alteration

shattered  $\rightarrow$  ? nearby  
- fault  
- more altered than previous

+100m 930m (3050 ft)  
- intrusive as below

H2 +20m

52

andesite volcano  
but bleached, altered  
as H2 520, weathered  
surface may suggest  
pillow breccia

- diabase Fp  $\phi$  dyke  
70° vertical  $\rightarrow$  with zones  
of patchy silicification  
extending outward

- adjacent to sheared  
zone (probable fault)

$\rightarrow$  180° vertical  $\phi$  agt  
} chert & argillites on  
opposite side

+150m southback/ 945m  
300 ft)

LEVEL

← ASSAY NUMBER →

3.0 km

800 m at branch road  
(3025 ft)

0.9 km to main road  
→ +1.0 to main line

w. deformed phylites on  
uphill side, about 9  
veins

+ 380m 970me (3180ft)  
deformed argillite  
faults - very shattered

August 24/83

Dendrey Creek

- trying to look for  
Anderson's differentiated pile  
to W of Dendrey Creek →  
alt roads through  
Yadner Group argillite →  
lithic / Q rocks, siltstones  
- locally abundant py lenses  
+ claystone clots / to  
10% very finely crystalline  
BCS 0448  
920me (3020ft)

→ Alfred soil samples. →

→ to MAIN LINE at

↳ to main line ←  
chest

likely best approach is  
to get air photos + try  
to walk relevant roads  
- bulk of o/c pyllites/  
argillites

Peas Creek last short  
road with white o/c  
end of road at 740m  
2430ft

fault? orientation  
west. Quenched chert,  
argillites, in part  
silicified with? base VC  
V finely crystalline,  
dk grey, shaly  
- some bleaching  
x cut by very altered/  
weathered spheroidal  
weathering mafic dykes  
diabase



- ? Fe carbonate alteration  
some ~~Schistogang~~ rings?

B/A



✓ Gneissite, w. 5-10% Fp  
to light grey, finely  
w. fine felsite plug  
± good ~~Schistogang~~ rings  
- may be sparse Fe carbonate  
alteration

→ argillites, silicified or  
cherty, rusty-weathering

→ andesitic Ve, light  
green band, finely  
crystalline

about 5m wide - between  
very shattered arg  
+ light grey, finely  
crystalline, conchoidal  
fracturing, massive  
intrusive 8.24.1

H2  
22 - andesite tuffs  
- silicified, silicified  
- shaly

- may also be agglut  
sized fragments but  
hard to be sure

- intrusive continues → +100m  
darts of 8.24.2  
much into that on other  
side Aug 23

Sawed samples  $\rightarrow$  multiple  
inclusion gabbro prior to  
solidification  $\rightarrow$  "pseudo-  
fragments"



$H \geq 523 +$   
sheared gabbro w  $P_0 > C_{py}$   
along unog. discord fractures

up to 50% mafic content  
as light green amphibole

+ 50m sheared contact  
after cover with andesitic  
vc 720m 2360ft

AZ 523

- andesitic tuff?  
chlorite + saussureite

- slightly gassy texture  
may → some serpentine  
- minor Cpx in sheared  
area 2m across

→ BCS 0511  
across 1m of shear  
2-5% po, up to 1% Cpx

→ andesite tuff → ? agglut

+ 10m → whole 2 < 1m  
exposed to Cpx 1-2% po  
white chlorite > serpentine

o/c 4m X 2.5m, cover  
on all sides

SAWED → c grained GABBRO,  
very fresh, strongly magnetic  
but w. blades of visible  
elements  
- good sulphuric texture

- Cpy less evenly by itself  
w. other sulphides

→ andesite duff, massive,  
bleached, probably relicified  
(nearby intrusive)

→ 1.5m crusty weathering o/c  
on o/c no obvious  
foliation → shear but  
hand samples showed  
chlorite + mod. green  
c. granod. amp. (? GABBRO  
intrusive)

up to 2-3% Cpy to 60% (rare)  
15% pink-silver sulphide  
non magnetic to strongly  
magnetic.

→ Best GRAB BGR 0449

? all  $P_0$   
- Cpy + silver sulphide  
tend to occur together in  
discrete clumps or intergrowths  
- base bluish sulphide

- some samples relatively massive  
but others apparently in

mostly in irregular,  
discontinuous fractures ←  
rather than more massive  
intergranular / intercrystalline

irregular discontinuous  
fractures

↓ about slickensided surfaces

- away from more massive  
areas return to light  
green andesite volcanic <sup>showed</sup> to gabbro

- well sorted, unconsolidated

- little different from  
that of gabbro H2 523

<sup>h2</sup> - cpx extends to limit of  
o/c within 5m.

but o/c as well above

v. distorted phylloites  
w about 0.5m



- gabbro sheared in places or  
integrated while still soft  
(GVA)

- sparse v. coarsely crystalline  
clots of cpx

- bluish tannish or same  $P_0$   
+ wide variation in degree of  
magnetism

+ sample across length dimension  
of o/c BCS 0550

- average grade much  
decreased with total  
sulphides  $< 3\%$  to to  
minor Cpy (1%)

- strongly to weakly  
magnetic with galena  
not fine medium fine  
crystalline to finely  
coarse crystalline

- po, cpy inclusions, finely  
disseminated throughout

+ not confined to obvious  
sheared lenses

- oxidized structure X  
at all samples