

**DEREK**

842132  
Nimpkish

April 1983

DEREK BROWN

APRIL 7/83

LOCATION: NIMPKISH GROUP, VAN. IS.

WEATHER: SNOW !! + WINDY

AHNSB3-1:

- relatively unaltered volc.
- weather - pale green
- fresh - dark green
- fog to mg
- abundant ch
- minor ch + ep veinlets

vein attitude:

350/70 NE



△ HNB3-1:

- at 2+20 m

- ep-gtz veins up to 5 cm wide cutting fgn greenstone

HNB3-1

- grab sample across 1 m of veins + country rock
- pale green veins
- dark green, fgn get host

△ HNB3-5: (BASALTIC?)

- andesitic amygdaloidal flow pr (PP)
- massive dark grey rock with pale green (ep?) and white (gtz ± zeolites?) crystals throughout
- trace py ± chalc
- green crystals - radiating masses

HNSB3-10:

- Fs PORPHYRY
- white fs megacrysts up to 8 mm long
- altered dark grey, mafic phenocrysts up to 3 mm long
- weathers - light grey
- andesitic composition
- ch + ep veins or fractures

APRIL 8/83

LOCATION: NIMPKISH GROUP

WEATHER: AM → SUNNY !!

PM → CLOUDY, SNOW or RAIN

on Road 7:

4+50 m (Δ HNSB3-28):

- basalt with abundant pale green ~~knob~~ spots of ep
- ep is more weather resistant & forms a knobby weathered surface
- ep + qtz + zedites fill vesicles

= amygduloidal basalt

- small, isolated %'s

fractures: 270/70 N



3+80 m:

- // fractures in f  $\phi$
- ep alteration along fractures
- f altered to white "clayey mins."
- abundant ep + ch in groundmass
- % weathers pale grey
- fresh - dark green
- ep altered fractures < 3 cm wide

2+50 m:

- AMG. BASALT

- green + white mins. filling vesicles (ep + zeolites?)
- 10-15% amygdules
- relatively unaltered groundmass
- unaltered fractures



2+10 m to 1+75 m:

- rough weathering amy. basalt with white, altered f. phenocrysts < 2 mm long
- fractures are ep altered
- continuous %

1+50 m:

- 15 m long %
- completely epidotized %
  - pale green with colourless, pale green & white mins. filling vesicles
  - weathers - pale green

HNBB-2

- grab sample

1+20m to 0480:

- basalt and amy. bas
- variable amounts of ep alteration
- more ep towards 1+50m

0+65 to 0+25:

- continuous %
- basalt
  - mafic phenocrysts
    - altered to dark green ch(?)
  - ep along some fractures
  - relatively unaltered

"ROAD 8" (southeast end)

8+20 m from junction with Road 3:

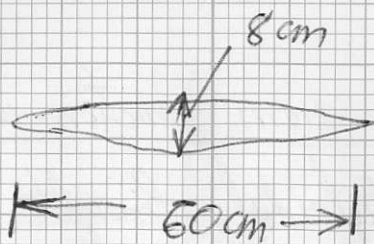
- amygduloidal basalt with altered mafic phenocrysts
- ep fills vesicles
- 10% amygdules
- isolated %'s

7+00 m:

- fgs, dark green basalt
- no amygdules
- "sand paper" weathered surface
- dark greenish grey weathering

5+60 m:

- white zeolite altered basalt
- highly fractured zone ~ 15m wide
- fgs basalt on both sides



flow layering (?);

180/15W 15-

5+50 m.

- lense shaped pocket of sulfides within amygdaloidal basalt

HNB3-3

- sample of sulfides
- malachite staining
- minor py <sup>metallic</sup>
- dull grey min - MT.
- ept + ch<sub>v</sub> in pocket  
+ qtz crystals

- large % from 5+25 m to 5+80 m

4+00 m.

- possible flow layering

dyke attitude

~ 050/90

~~40~~

2+10 m:

HNB3-4

- grab sample along the pyritic contact of a granitic dyke that intrudes the basalt
- dyke is ~5 m wide
- weathers rusty brown
- hb phenocrysts → ch
- fgs to mgs
- malachite staining locally
- rare chalc (?)

- % from 2+00 to 2+30 m

# "ROAD 10"

## △ HNSB3-44:

- ~~sampled~~ 9/16 60 m long
- ~~the~~ basaltic f φ
  - fgs
  - massive
  - dark green

1

2+00 m:

- amy. basalt

3+00 m:

- 20 m long 9/16
- fgs dark green basaltic
- some epidote amygdules



bedding:

105/40

↖  
40

100/35

↖  
35

4+00 m ( $\Delta$ HNSB3-50):

- dark green amygduloidal basalt
- vesicles filled with ep + white & pink (zeolites  $\pm$  qtz)
- fgs groundmass
- massive
  
- % is 15 m long

5+35 m (end of Road 10):

- well layered amygduloidal basalt flows
- some fgs, bedded material between flows
- amygdules vary in size & are concentrated near the top of individual flows
  - beds are "right-side-up"
  
- % weathers greenish brown

"ROAD 12"

0+75 to 1+00 mi:

- amygduloidal basalt

end of Road 12:

- fgr. basalt
- weathers - light grey to brownish
- fresh - dark green

1+50 to 1+75:

- amy. basalt

APRIL 9/83

LOCATION: NIMPKISH GROUP

WEATHER: CLOUDY & COOL

on Road 21 ; 19+30m.

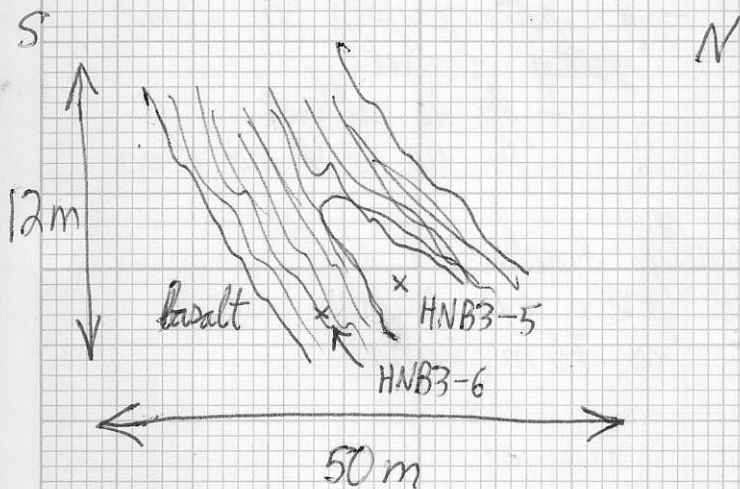
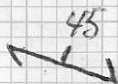
- Karmutsen volc.
  - fs phenocrysts in dark green basalt
    - fs is altered
    - fs up to 4 mm long
- locally fractured
- pale green ep patches
- % is 75 m long

1555  
930  

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2485

\* shear zone:  
~ 290 / ~ 45  
(\* strike & dip vary)



24+85 m:

- sheared Karmutsen volc.
- highly fractured
- locally pyritic (disseminated & along fractures)
- fractured zone ~ 8 m wide

HNB3-5

- resistant lens in shear zone
- pyritic, altered volc (?)

HNB3-6

- sheared volc.
- highly fractured
- dark green

- some unshaped basalt on footwall

April 10/83

Road 25

2+00 m:

- Karmutsen amy. basalt
  - ep filled vesicles
  - dark green
  - massive
- 9c is 8 m wide & continuous up the hillside

3+50 m to 4+00 m:

- dark green, fgs basalt
- some amygduloidal
- dark green mafic phenocrysts < 2 mm long
- massive

HNB3-8 FLOAT  
- malachite & azurite stained gtz-ep veins

4+50 to 5+75 m:

- continuous % of massive amy. basalt
  - trace disseminated py
  - pitted weathered surface
- rusty, pyritic fractures
- altered fs phenocrysts

5+60 m:

HNB3-7

FLOAT

- massive py in basalt boulder
- trace chalcocite (?)
- euhedral py.

HAQAMM



DISTANCE

ROAD 25

end of Road 25 → 0+00

0+50

1+00

1+50

2+00

2+50

3+00

junction with Road 26 → 3+50

4+00

4+50

5+00

5+50

junction at 6+00

ROAD 26

end of Road 26 → 0+00

\* 0+80

junction with Road 25  
at 1+25m

STATION	ELEVATION	TEXTURE	COLOUR	DEPTH	HCR.	ORG.
HNSRB-32	038	silty	ln	12	B	L
-133	41	silty	ln	8	B	L
-134	44	silty	ln	12	B	L
-135	46	silty	ln	14	B	L
-136	47	silty/bandy	ln	10	B	L
-137	49	silty	ln	14	B	L
-138	51	silty	brick red	12	B	L
-139	55	silty	ln	18	B	L
-140	54	silty	ln	12	B	L
-141	52	silty	yellow ln	14	B	L
-142	49	silty	ln	16	B	L
-143	48	silty	ln	14	B	L
-144	49	silty	ln	4	B	L
-145	52	silty	ln	10	B	L

APRIL 10/83

end of Road 23 →

DISTANCE

0+00  
0+50  
1+00  
1+50  
2+00  
2+50  
3+00  
3+50  
4+00  
4+50  
5+00  
5+50  
6+00  
6+50  
7+00

on corner →

Road 21 junction at 7+50

ROAD 24

end of road 24 →

junction with 21 at 1+50

0+00  
0+50  
1+00

STATION	ELEVATION	TEXTURE	COLOUR	DEPTH	HOR.	ORG.
HNSB3-114	157	silty/sandy	ln	8 cm	B	L
115	158	silty	ln	12	B	L
116	160	silty/sandy	ln	10	B	L
117	154	silty	ln	12	B	L
118	146	silty/sandy	ln	10	B	L
119	138	silty/sandy	ln	12	B/sandy	L
120	132	silty	ln	12	B	L
121	128	silty	ln	10	B	L
122	122	silty	ln	10	B	L
123	110	silty	dark ln	12	B	L
124	106	silty	brick red	10	B	L
125	106	silty	yellow ln	12	B	L
126	106	silty	ln	14	B	L
127	110	silty	ln	16	B	L
128	117	silty	ln	12	B	L
129	58	silty	ln	14	B	L
130	53	silty	ln	12	B	L
131	55	silty	ln	12	B	L

DISTANCE

STATION

ELEVATION

TEXTURE

COLOUR

DEPTH

HOR.

ORG.

junction of Road 14 and 21 → 0+00

1+00

2+00

ROAD 21

3+00

4+00

5+00

6+00

\* 7+35

8+00

(9+30 ⇒ HNS65-105)

HNSB3-105

100

silty

bn

18

B

L

-106

100

silty

bn

16

B

L

-107

100

silty

bn

20

B

L

-108

100

silty

bn

14

B

L

-109

103

silty

bn

12

B

L

-110

104

silty

bn

22

B

L

-111

102

silty

bn

18

B

L

-112

102

silty

bn

12

B

L

-113

103

silty

bn

14

B

L

~~114~~~~115~~



DISTANCE

STATION

ELEVATION

TEXTURE

COLOUR

DEPTH

HOR.

ORG.

road 17 junction →

road 16 junction →

10 m long monzonite % →

junction →

bridge →

18+95 junction with Road 13 →

22+00 junction with Road 20

6+50

7+00

7+50

8+00

8+50

9+00

9+50

10+00

10+50

11+00

11+50

12+00

\* 13+40

\* 14+40

\* 15+90

16+50

17+00

18+00

\* 18+75

\* 20+00

HNSB3-85

-86

-87

-88

-89

-90

-91

-92

-93

-94

-95

-96

-97

-98

-99

-100

-101

-102

-103

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APRIL 9/83

	DISTANCE	STATION	ELEVATION	TEXTURE	COLOR	DEPTH	HOR.	ORG.	
"ROAD 13"	0+00	HNSB3-65	170	silty	bn	14	B	L	
	0+50	-66	165	silty	bn	10	B	L	
	1+50	-67	146	silty	bn	16	B	L	
	2+00	-68	142	silty	bn	10	B	L	
	2+50	-69	120	silty	bn	14	B	L	
	3+00	-70	108	silty	bn	10	B	L	
	* 3+65	-71	100	silty	bn	5-14	B	L	
	road 14 at 4+45 m →	4+00	-72	98	silty	bn	10	B	L
	junction of road 14 & road 15 →	0+00	-73	148	silty	bn	14	B	L
		* 0+65	-74	140	silty	bn	8	B	L
* 1+50		-75	132	silty	bn	12	B	L	
2+00		-76	130	silty	bn	14	B	L	
* 2+65		-77	125	silty	bn	18	B	L	
3+00		-78	130	silty	bn	16	B	L	
3+50		-79	128	silty	bn	14	B	L	
4+00		-80	127	silty	bn	16	B	L	
4+50		-81	122	silty	bn	20	B	L	
5+00		-82	120	silty	bn	12	B	L	
5+50		-83	119	silty	bn	16	B	L	
6+00		-84	115	silty	bn	12	B	L	

"ROAD 15"

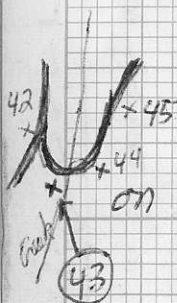
TRAV 1 across the gully  
adjacent to the spring

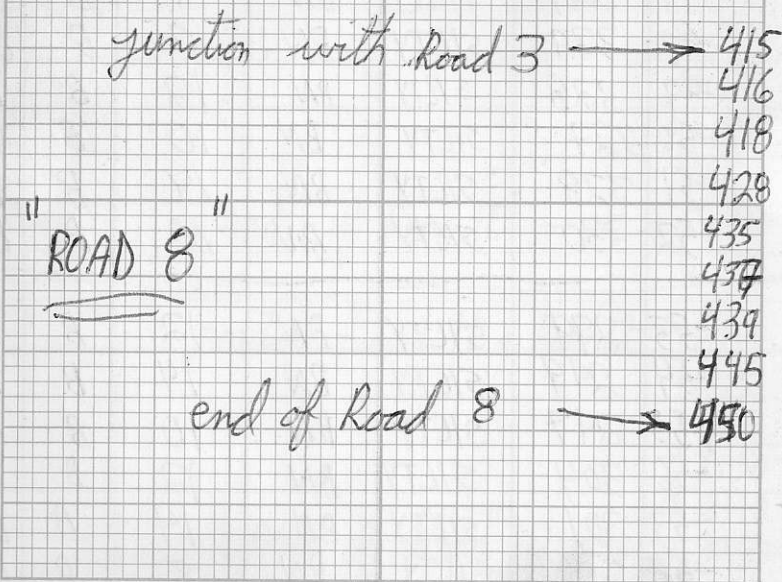
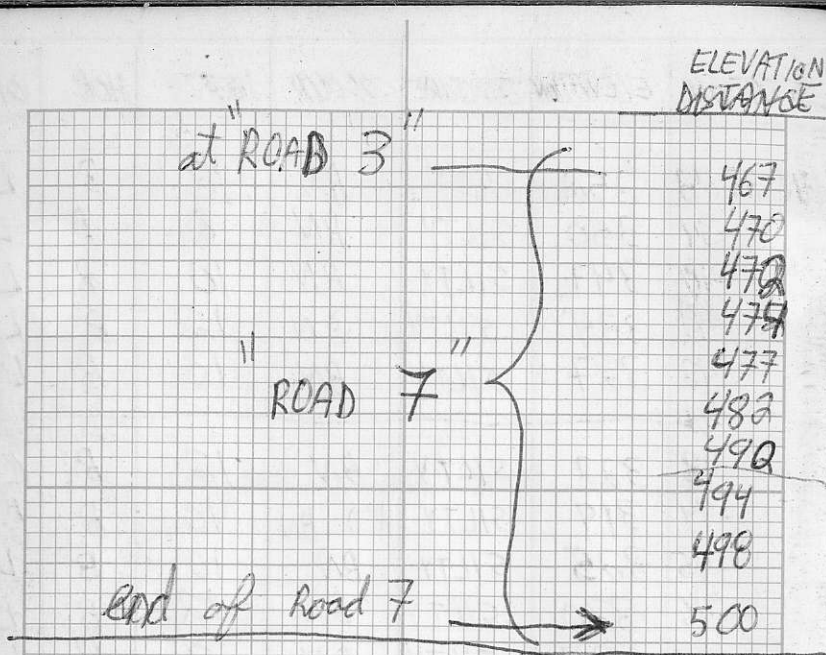
AMY. BAS

Road

DISTANCE	STATION	ELEVATION	TEXTURE	COLOUR	DEPTH	HOR.	ORG.
0+00	HNSB3-59		SILTY	BN	8cm	B	L
0+50	-60		SILTY	GREY	14cm	B	L
1+00	-61		SILTY	BN	12	B	L
→ 1+50	-62		SILTY	GREY	14	B	L
2+00	-63		SILTY/SANDY	BN	10	B	L
→ 2+50	-64		SILTY	BN	14	B	L



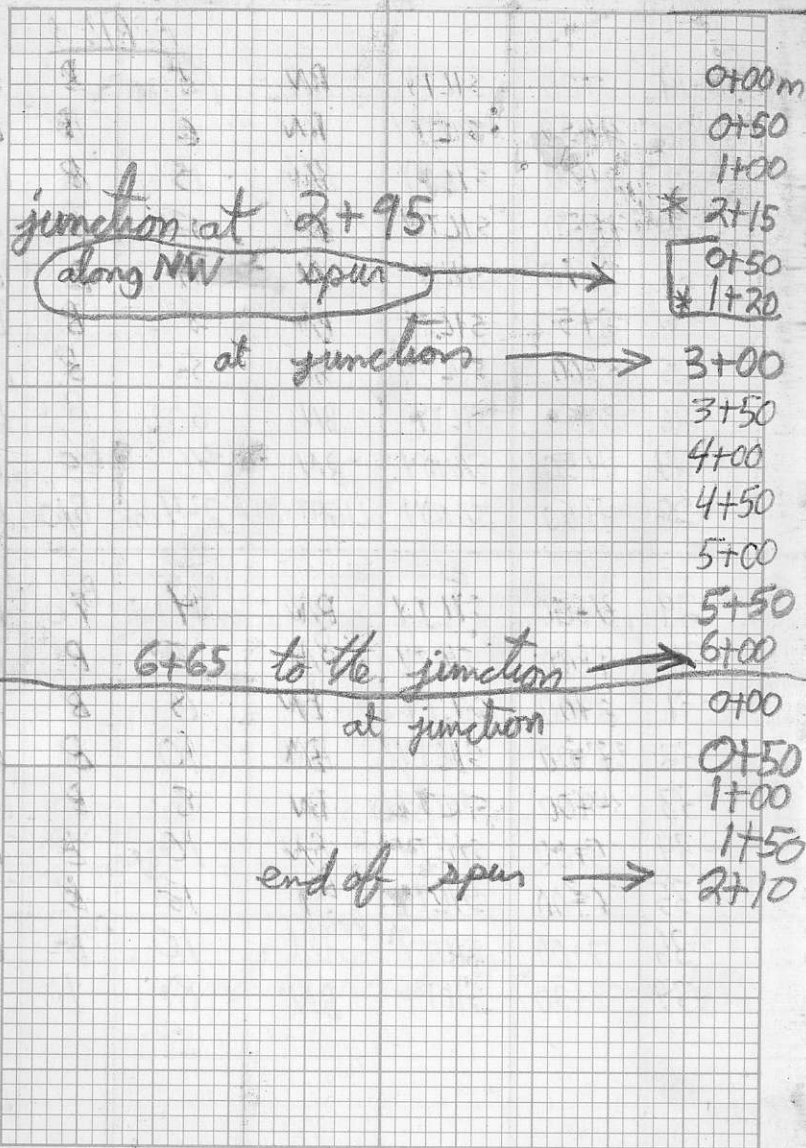
	DISTANCE	STATION	ELEVATION	TEXTURE	COLOR	DEPTH	HCR.	ORG.	
Road 10 at junction with Road E →	0+00	HNSB3-38	352	SILTY	BN	12	B	L	
	0+50	-39	350	SILTY	BN	8	B	L	
	1+00	-40	347	SILTY	BN	10	B	L	
	1+50	-41	334	SILTY	BN	12	B	L	
	* 2+25	-42	327	SILTY	BN	10	B	L	
		<del>-43</del>							
NW side of Creek → 	0+00	-43	323	SILTY	BN	12	B	L	
	* 0+60	-44	319	SILTY	RED BN	10	B	L	
	* 1+20	-45	325	SILTY	BN	10	B	L	
	* 1+75	-46	330	SILTY	BN	12	B	L	
	* 2+25	-47	327	SILTY	BN	8	B	L	
	3+00	-48	329	SILTY	BN	10	B	L	
	3+50	-49	328	SILTY	BN	12	B	L	
	4+00	-50	327	SILTY	BN	10	B	L	
	4+50	-51	328	SILTY	BN	14	B	L	
	end of Road 10 →	* 5+35	-52	330	SILTY	BN	10	B	L
	junction of Road 11 & Road 12 →	0+00	-53	299	SILTY	BN	12	B	L
0+50		-54	294	SILTY	BN	14	B	L	
1+00		-55	297	SILTY	BN	10	B	L	
1+50		-56	304	SILTY	BN	12	B	L	
* 2+10		-57	301	SILTY	BN	14	B	L	
end of Road 12 →		* 2+60	-58	300	SILTY	BN	8	B	L



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STATION	DISTANCE ELEVATION	TEXTURE	COLOUR	DEPTH	HOR.	ORE
MNSB-19	0+00	SILTY	BN	12	B	L
-20	0+50	SILTY	BN	6	B	L
-21	1+00	SILTY	BN	8	B	L
-22	1+50	SILTY	BN	8	B	L
-23	2+00*	SILTY	BN	10	B	L
-24	2+50	SILTY	BN	8	B	L
-25	3+00	SILTY	BN	8	B	L
-26	3+50	SILTY	BN	6	B	L
-27	4+00	SANDY	BN	4	B/c	L
-28	4+50	SANDY	LIGHT BN	2-4cm	B/c	L
-29	0+00	SILTY	BN	4	B/c	L
-30	1+00	SILTY	BN	6	B	L
-31	2+00	SILTY	BN	8	B	L
-32	3+00	SILTY	BN	10	B	L
-33	4+00	SILTY/SANDY	BN	8	B	L
-34	5+00	SILTY	BN	10	B	L
-35	6+00	SILTY	BN	12	B	L
-36	7+00	SILTY	brick red	10	B	L
-37	8+20*	SILTY	BN	8	B	L





DISTANCE

STATION	ELEVATION	TEXTURE	COLOUR	DEPTH	HORIZON	ORG.
APRIL 7/83						
HNSB3-1	—	SILTY	BN	5 cm	B	LOW
-2	480 m	SILTY	BN	6	B	LOW
-3	477	SILTY	BN	8	B	L
-4	465	SILTY	BN	12	B	L
-5	445	SILTY	BN	14	B	L
-6	437	SILTY	BN	10	B	L
-7	450	SILTY	BN	8	B	L
-8	453	SILTY	BN	10	B	L
-9	452	SILTY	BN	6	B	L
-10	448	SILTY	BN	8	B	L
-11	450	SILTY	BN	12	B	L
-12	435	SILTY	BN	14	B	L
-13	430	SILTY	BN	12	B	L
-14	440	SILTY	BN	14	B	L
-15	442	SILTY	BN	10	B	L
-16	442	SILTY	BN	6	B	L
-17	448	SILTY	BN	8	B	MED
-18	452	SILTY	BN	8	B	L
-19						
-20						