

← Mn Oxide  
Coating

8-11cm vein n=9  
0.5mm to 0.2mm  
straight  
cracks

13-16cm vein network n=10  
irregular 0.4mm

21-22cm vein n=1  
0.2mm straight

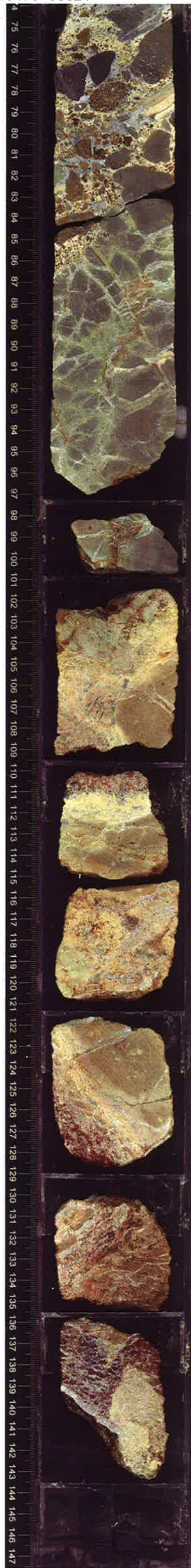
53 gopetal → 179

→ Type 1

gopetal UP 5  
180°

53.5 gopetal  
→ 1850  
84 gopetal → 1871

BWT sediments in  
them probably not  
deposited horizontally,  
so these two gopetals  
do not bear on  
the orientation of  
the seams.  
Useful only as  
indicators of  
younging direction



75-80 gopetal → 1874  
81 gopetal → 1867  
82 gopetal → 1865  
see comments for gopetals  
@ 53.5-54cm

→ Type 1

85-97cm  
vein network n=30

↓ all pieces from 98 to 146  
cm  
contain vein networks



<Type 1>

APHYRIC BASALT

MOTTLED GRAY BROWN

PHENOCRYSTS: NONE

FINE GRAINED

VESICLES: NONE

<Type 2>

MODERATELY OL-PX-PHYRIC BASALT

MEDIUM GRAY ORANGE

5% OLIVINE (ALTERED) MAX: 9mm  
MOD: 2mm

3% PYROXENE (FRESH) MAX: 5mm  
MOD: 2.5mm

FINE GRAINED

VESICLES: 0-5%

MODERATE, ROUNDED

<Type 3>

APHYRIC BASALT

MOTTLED BROWN

PHENOCRYSTS: NONE

FINE GRAINED

VESICLES: 10%

HIGH, ROUNDED

<Type 4>

MODERATELY OL-PL-PHYRIC BASALT

MOTTLED GRAY CREAM BROWN

3% OLIVINE (ALTERED) MAX: 3mm  
MOD: 1mm

5% PYROXENE (FRESH) MAX: 4mm  
MOD: 2mm

3% PLAGIOCLASE (ALTERED)  
MAX: 2mm  
MOD: 1mm

FINE GRAINED

VESICLES 1%, HIGH, ROUNDED

<Type 5>

HIGHLY OL-PX-PHYRIC BASALT

MEDIUM GRAY ORANGE

25% OLIVINE (ALTERED) MAX: 5.5mm  
MOD: 2mm

5% PYROXENE (FRESH) MAX: 6mm  
MOD: 3mm

FINE GRAINED

VESICLES 0-3%, MODERATE, ROUNDED

330-U1375A-2R-2-A\_SHLF2867451\_20110125180938



2-12cm ves  
network n~20  
max 8mm  
branch + recombine



330-U1375B-1R-1-A\_SHLF2867881\_20110126032334

UNIT ①

Moderately olivine-  
(-Augite)-phyric  
Microgabbro (dolerite)

Color:  
Brownish medium  
grey

Texture:  
Medium grained (1mm)  
holocrystalline,  
moderately porphyritic

Phenocrysts:  
2% # Olivine (altered)  
10mm max  
3mm mod  
0.8% # Pyroxene (fresh)  
15mm max  
5mm mod



Not Recovered

No vesicles  
3cm conjugate vein n=1 straight 0.2mm  
30-144°

0-9cm vein n=1 1mm  
90-115° curved

10-22cm vein n=1  
0.5mm straight 80-102°

21cm conjugate vein n=1  
0.1mm irregular 15-184°



35-40cm vein n=1 1mm  
straight 88-102°

Groundmass:  
Plagioclase  
Pyroxenes  
Olivines

38-39cm conjugate vein n=1  
0.1mm irregular 15-204°

42-55cm vein n=1 1mm  
straight 88-106°

50-55cm conjugate vein n=3  
curved 90-340°

46-59cm vein n=1 1mm  
straight 88-106°

54-60cm vein n=1 0.5mm straight  
88-106°

END of  
UNIT ①  
(pieces: 1-5)  
Not recovered