357

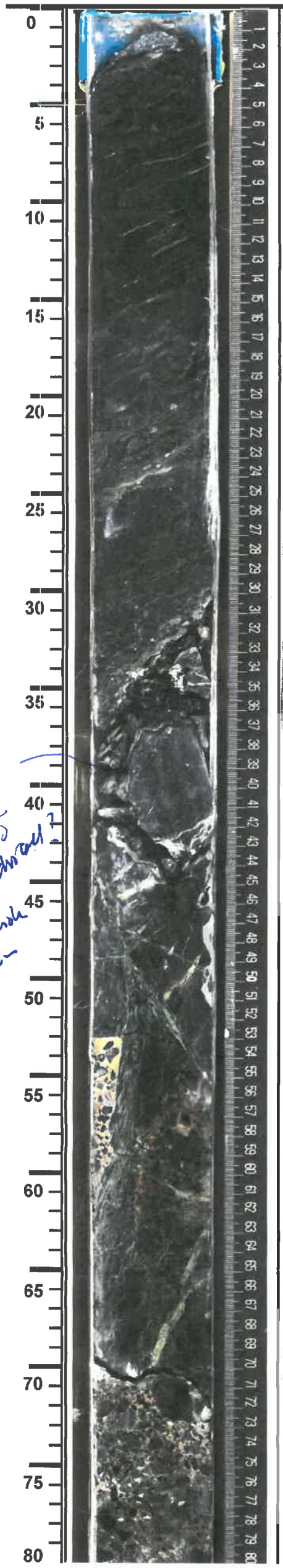
IODP-MSP (Exp. ~~325~~) VISUAL SECTION UNIT DESCRIPTION

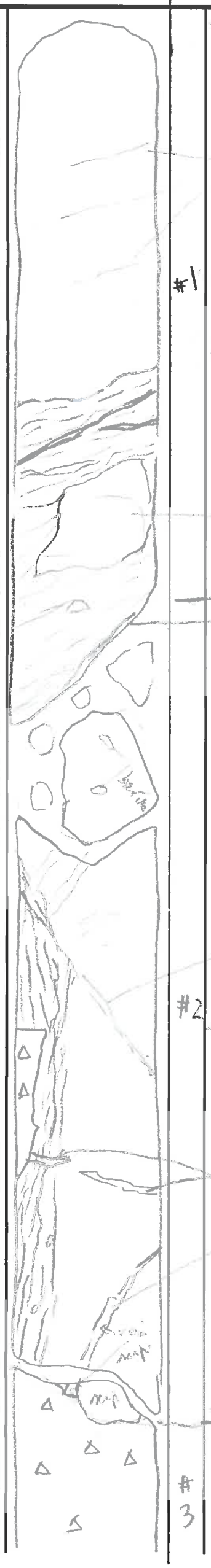
Exp.	Site	Hole	Core	Type	Section
357	68	B	1	R	1

Observers
AAAS

adjacent

[cm] | Scanned Image | Sketch | Piece | Description





#1

Unit 1: protomylonitic porphyroclastic serpentinite
porphyroclasts consist of altered opx (bastite)
patches of mesh-texture 0 to 300cm.

opx ~ 5mm
subrounded
(stretched)

thin white veins in interval 5-15cm
apparent dip 20° density 15/10cm

veins
straight
sig/irreg
IS/sing/branched
mass/crossit
uni/comp/banded

superimposed meridional with
intervals of foliated Vale-amphibole
mineral to 68A

foliated interval - notably Vale-Amphibole
with clast of serpentinite - 20-30cm.

serpentinite

30cm

highly foliated
Gajam from 44 to 70 cm.
(sub vertical foliation).

sheared contact
sep. vein ~ 3mm-wide apparent dip: 40°

WR

1-3 fractured moderately fine-

#2

Unit 2
30-73cm

the interval of unit 2
is also characterized with sub vertical
Cataclasite of 2 other rock types =

carbonated breccia

sheared
sep vein
app dip 65°

highly foliated
(mylonitic) Vale-amphibole
material

serpentinized
& heavy veined
with mesh
texture and
barren and
partly reddish
30cm - Hyaloclastite

0,5cm
(1,2-1cm

alteration in orange locally
of serpentinite

sep vein app dip 15°. cuts foliated shear zone
~3mm-wide

0.5cm-thick sep vein
apparent dip 65°

mesh ~1mm

veins:
straight / irreg
single / isolated
massive
uniform / banded.

separation between
#2 and #3 is
drilling-induced fracture

73cm

sharp contact, curved

#3

73-93cm

several
pieces of serp. mylonite 1x1cm
mesh texture + veins
TSS

Unit 3: Carbonated breccia polygenetic
angular clasts of oxidized ...
Clasts range in size from a view mm up to cm

green-schist facies basalt
"basalt": few mm-2cm
"talc-schist": green mm-3cm
+ talc-schist green

red: 1x1cm
yellow/brown: 1cm

60%
green ~ 70%
black ~ 20%
yellow+red ~ 10%

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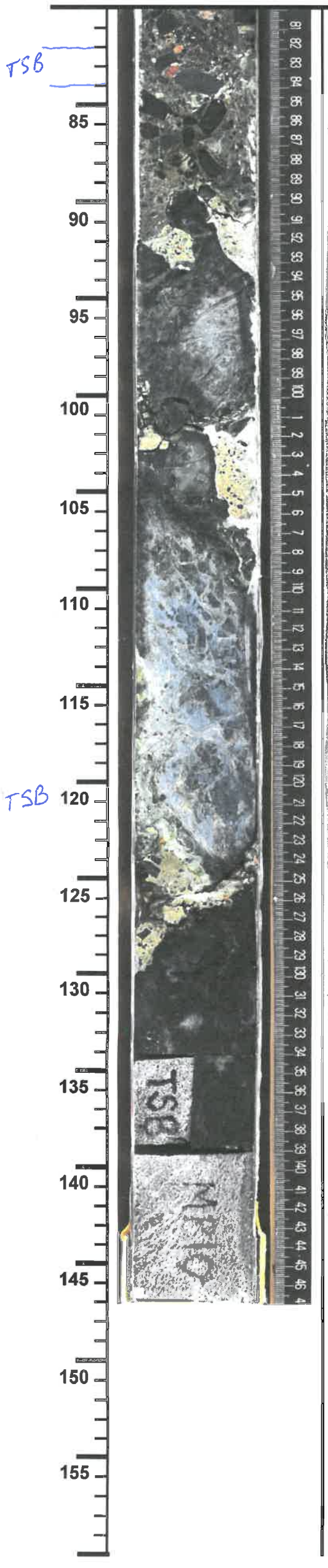
[cm] | Scanned Image | Sketch | Piece | Description



breccia:
Unit 3 (continued)

there is a change in the color of the matrix but the clasts look the same

#3

sharp contact, curved

3 cm. 93-125 cm

Unit 4 : top looks very much like Unit 1.

Strongly foliated interval: 90-101 cm.

THE COLOR IS MORE BROWNISH AND IT SEEMS AN EVOLUTION OF THE INTERVAL. 30-35 CM (MORE ~~AMPH~~-RICH ZONE) ↓PROTOLITH THE SAME "TALC

bottom is highly altered

is variably foliated metasomatized [illegible] talc-amphibole and serpentine material

#4

Segment of pieces 3 and 4

is only shallow-induced fracture.

serpentinites highly altered brownish area?

Straight branched/single
Massive wiggy ribbon
banded with thin wiggy ribbons
pale green - breccia on the other side.

sheared vein ← apparent dip (in core) = 60° true dip: 20-
Sero/talc

sheared contact

Idem

between Units 5 and 6 there are ~5 cm a few cms of breccia.
calcitized

#4 and #5
125 cm
are originally
in continuity

?

I do not think
so → J5

#5

Unit 5
dark green

50%
gabbro CPX + Plag + brown amphibole
35% (TS) 15%

accessory

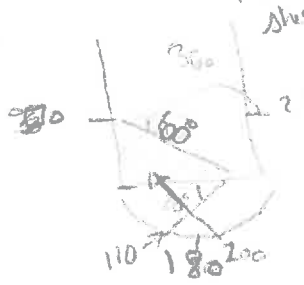
original grain size: 0.5-2.5 cm in diameter
→ thin section
~~amphibole~~

plag: 0.5-4 mm
oxides ≥<5%
vermicular

Pyroxenite

opx single grains <5%
1 mm
30% of dark ~ amph
~2 mm
rims of cpx

mean orientation of sheared vein
125 cm



dir. of thin section

Straight
branched/single
massive
banded.