

[Handwritten scribbles]

CM Scale

0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100
102
104
106
108
110
112
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144
146
148
150
152

Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Comments
	sed	ag			yellow carbonate (limestone) with polygonite and some fresh glass fragments (e.g. at 5cm), pillow lava
-22		g T1 } ig contact } aphanitic } 35 } fine grained } 57 } aphanitic }			sparsely phytic 5% phen: plg euhedral/subhedral 0.5mm fine grained (aphanitic at margins) moderately vesicular, filled with calcite moderately altered to highly altered
-57		5 } fine grained }			sparsely plg phytic 5%, 0.5mm max fine-grained 57 thick vein is <u>not</u> chilled margin! moderately vesicular 8mm \varnothing 2mm highly altered to moderately altered
106 105	sed	ag } 705ag } fg } fg } fg } ag+gg }			yellow carbonate with polygonite aphanitic 5% microphenocrysts of plg similar to 1 sparsely vesicular 10mm \varnothing 3mm filled with calcite
-139	sed	ig-contact			yellow carbonate with polygonite

← good glass for GL

①

②

③

← good glass piece for GL in V-half!

continued
piller lava

CM Scale

Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Logged By:	Date:
					Comments	
	(4)	↓ slightly more coarse	aphanitic fine grained			moderately 10% plagiophyric basalt 2mm plagioclase 0-14cm moderately vesicular 10% 10mm filled with calc. 14-33 sparsely vesicular 33-46 fine 5mm plagioclase moderately vesicular slight to moderate alteration
-49	sed	ag	49			green carbonate sediment
-57						8% plagioclase 1mm, 0.5mm fine grained 57-74 aphanitic 74-97 fine grained 97-101 aphanitic fine grained (0.25-0.5mm) 15% filled vesicles, 20mm 2mm filled with calcite slightly altered
-107		F(10)				8% 1mm plagioclase, 0.5, glaucocysts fine-grained throughout highly vesicular (>20%) including large "blister" vesicles
	(6)					

PRF



CM Scale

0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
-50
-52
-54
-56
-58
-60
-62
-64
-66
-68
-70
-72
-74
-76
-78
-80
-82
-84
-86
-88
-90
-92
-94
-96
-98
-100
-102
-104
-106
-108
-110
-112
-114
-116
-118
-120
-122
-124
-126
-128
-130
-132
-134
-136
-138
-140
-142
-144
-146
-148
-150
-152

Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Logged By:	Date:
					Comments	
	still 75 6	#				

see Unit 6 description on
base of GR=2
fine-grained, moderately vesicular

* Good for
post-cruise
⁴⁰Ar/³⁹Ar

In total
160 cm
of Unit 6
recovered

CM Scale

0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
-50
-52
-54
-56
-58
-60
-62
-64
-66
-68
-70
-72
-74
-76
-78
-80
-82
-84
-86
-88
-90
-92
-94
-96
-98
-100
-102
-104
-106
-108
-110
-112
-114
-116
-118
-120
-122
-124
-126
-128
-130
-132
-134
-136
-138
-140
-142
-144
-146
-148
-150
-152

Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Comments
		full-lm Mg-nodule			
7					slight alteration fine grained
23					mod. vesicular 2/10mm 90% filled calcite low spher.
31	SH/AL (6)				5-8% plag phenos 0.5/1mm
45					sphers. ves. 1/1.5mm 90% filled calcite low spher.
55					
93					5-8% plag phenos 100/3mm mod. vesicular 2/10mm 95% calcite filled low spher.
94					
94		aphanitic			
100					3-5% plag phenos 0.5/1mm (needle-like)
113					
116					
118					
120					
122					
123					
128					
134					
					This piece probably was originally above the drilled margin and if that piece considered as still part of Unit 7

good for PC geochem sampling

good for glass sampling!

CM Scale	Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Logged By:	Date:
						PD	3/29/22
0						Comments	
2						fine grained	
4						2-5% plag	
6						0.5/2mm	
8						slight - mod. alteration	
10						sparse vesicles	
12	11 vein calcite					2/10mm low spher.	
14		(8)				95% filled w/ calcite	
16						↓	
18							
20						← abundant w/ice glass for post-coring sampling	
22							
24							
26							
28							
30							
32							
34							
36							
38	75						
40							
42							
44							
46							
48							
50							
52							
54	53				53		
56	56		III contact				
58							
60							
62							
64							
66							
68		(9)					
70							
72							
74							
76							
78							
80	52		aphanitic				
82	84		III contact				
84							
86	86				86		
88			III contact				
90							
92							
94	93						
96	96						
98	98						
100		(10)					
102							
104	106						
106		(11)					
108							
110	110				111		
112							
114	114		aphanitic				
116							
118							
120	121						
122							
124							
126		(11)					
128							
130							
132							
134	134						
136							
138	138						
140							
142							
144	144						
146							
148	149						
150							
152							

CM Scale

Drilling Disturbance	Color	Sedimentary Structures	Bioturbation	Samples	Logged By:	Date:
					PD	3/29/22
Comments						
1-4 ag	(11)				mod highly altered sparse-mod. vesicular 5/10mm 100% calcite filled	
7-13 ag	(12)				3-5% plag phenos 0.5/1mm 5/10mm filled	
15-17 ag	(11)	aphanitic		14	fine grained aphanitic	
	(13)	-20			mod vesicular 2/15mm 90% calcite filled low-mod alteration fine grained 1-3% plag phenos 0.5/1mm excellent gm for dating	
				34	EOH because strom (wow)	

0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
-50
-52
-54
-56
-58
-60
-62
-64
-66
-68
-70
-72
-74
-76
-78
-80
-82
-84
-86
-88
-90
-92
-94
-96
-98
-100
-102
-104
-106
-108
-110
-112
-114
-116
-118
-120
-122
-124
-126
-128
-130
-132
-134
-136
-138
-140
-142
-144
-146
-148
-150
-152

THIN SECTION LABEL ID: 392-U1582A-6R-3-W 11/14-TSB-TS 27

Thin section no.: 27

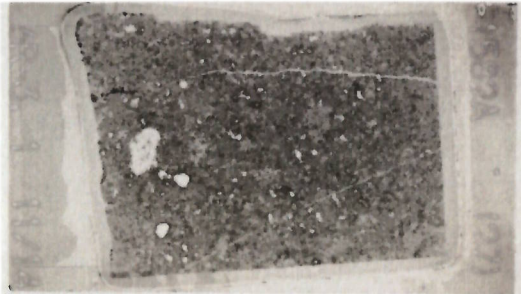
Observer: PD

Piece no.:

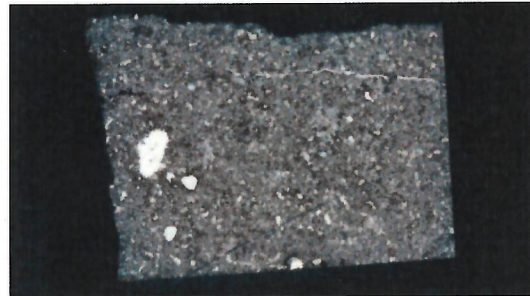
Thin section summary:

Unit/subunit: 6

Plane-polarized:



Cross-polarized:



Igneous Petrology

Lithology: plagioclase phyric basalt

Groundmass grain size (avg.): fine grained

Texture 1: sparsely phyric

Texture 2: openly spherulitic texture of plag needles, phenocrysts often form clots of glomerocrysts

Phenocrysts	Original (%)	Replaced (%)	Size mode (mm)	Size max. (mm)	Shape	Comments
Plagioclase	3	5	4	4	Eu	reaction rim, lots of small melt incl.
Qpx	1	5	1.5	1.5	Sub	highly fractured, cleavage

Groundmass	Original (%)	Replaced (%)	Size mode (mm)	Shape	Comments
Plag	35	50	0.2	Eu-Sub	
Qpx	20	80	0.05	An	
clay minerals	40				clay minerals
Micaceous iron ore	5	-	0.05	anhedral	very small + granular or dendritic

Vesicle	Original (%)	Filled (%)	Size mode (mm)	Size max. (mm)	Shape	Comments
Vesicle	15	100	0.4	1.5	irregular	3/4 3/4 filled w/ clay, 1/4 filled w/ calcite

↑
no cleavage??

THIN SECTION LABEL ID: 392-U1582A-7R-2-W 35/38-TSB-TS 28

Observer: PD

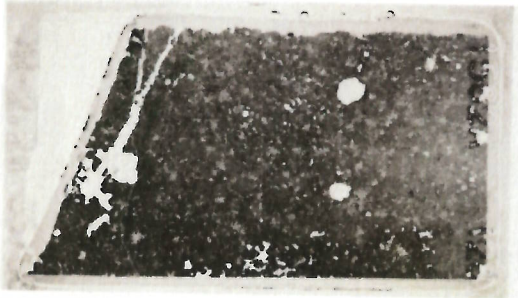
Thin section no.: 28

Piece no.:

Unit/subunit: 8

Thin section summary:

Plane-polarized:



Cross-polarized:



Igneous Petrology

Lithology:

Groundmass grain size (avg.)

Texture 1:

Texture 2:

Phenocrysts	Original (%)	Replaced (%)	Size mode (mm)	Size max. (mm)	Shape	Comments
Plag	1	90	0.5	1.5	Eu	
Op(?)	1	100	0.2	0.5	Eu	100% replaced w/ calcite plag

Groundmass	Original (%)	Replaced (%)	Size mode (mm)	Shape	Comments
Plag	20	90	0.15	Eu-Sub	
CPX	5	90	0.05	An	
Mesostasis	75	68			clay minerals
iron ore	8				granular

Vesicle	Original (%)	Filled (%)	Size mode (mm)	Size max. (mm)	Shape	Comments
Vesicle	10	100	1	4	irregular	mostly calcite filled, small filled w/ clay