

**Table 3**

Description, location, Sr and Nd isotope compositions, and Sr and carbonate contents for samples from Hole 1309D (30°10.12'N, 42°7.11'W, 1656.0 mbsl) and Hole 1309B (30°10.11'N, 42°7.11'W, 1653.4 mbsl)

Hole/leg	Sample number	Piece	Types of rock	Depth (mbsf)	Alteration (%)	Sr (ppm)	Nd (ppm)	CaCO <sub>3</sub> content wt.%	<sup>87</sup> Sr/ <sup>86</sup> Sr (±2σ int. error×10 <sup>5</sup> )	<sup>143</sup> Nd/ <sup>144</sup> Nd (±2σ int. error×10 <sup>5</sup> )	ε <sub>Nd</sub> <sup>a</sup> (±2σ int. error)
304-1309D	1R-1 72–80 cm	3B	Basalt	21.2	50	92	n.d.	0.084	0.702962 ± 11	0.513201 ± 07	11.0 ± 0.14
304-1309D	1R-3 4–8 cm	1	Talc/amph schist	23.3	100	2	4.37	0.106	0.704477 ± 14	0.513161 ± 13	10.2 ± 0.26
304-1309D	17R-2 9–17 cm	1	Olivine gabbro	100.0	40	n.d.	n.d.	0.101	0.702841 ± 14	0.513174 ± 12	10.5 ± 0.25
304-1309D	31R-2 19–30 cm	2	Harzburgite	173.2	90	32	n.d.	4.000	0.709036 ± 11	0.513261 ± 65	12.1 ± 1.27
304-1309D	42R-1 0–8 cm	1	Talc-rich harzburgite	224.3	90	4	0.32	0.686	0.708571 ± 15	0.513381 ± 76	14.5 ± 1.48
304-1309D	51R-4 30–38 cm	1A	Gabbro	271.0	10	86	n.d.	0.196	0.702686 ± 11	0.513185 ± 10	10.7 ± 0.21
304-1309D	60R-3 35–45 cm	4	Troctolite	313.2	50	n.d.	n.d.	0.225	0.703354 ± 12	0.513107 ± 46	9.1 ± 0.89
304-1309D	65R-2 22–30 cm	3B	Cr-rich harzburgite	335.7	50	n.d.	0.08	2.755	0.706870 ± 79	0.513059 ± 71	8.2 ± 1.39
305-1309D	83R-1 16–26 cm	2A	Olivine gabbro	415.2	5	54	n.d.	0.144	0.702721 ± 12	0.513149 ± 17	10.0 ± 0.33
305-1309D	83R-1 53–64 cm	2B	Olivine gabbro	415.5	50	n.d.	n.d.	3.482	0.703202 ± 12	0.513197 ± 14	10.9 ± 0.26
305-1309D	84R-2 8–17 cm	1A	Oxide-/leucogabbro	421.0	60	n.d.	n.d.	4.025	0.703698 ± 12	0.513205 ± 12	11.1 ± 0.23
305-1309D	87R2 63–71 cm	2E	Oxide gabbro	436.3	20	95	n.d.	0.948	0.702857 ± 12	0.513205 ± 07	11.1 ± 0.14
305-1309D	100R-1 42–46 cm	1B	Olivine-rich troctolite	497.0	10	44	n.d.	0.127	0.702688 ± 10	0.513171 ± 22	10.4 ± 0.44
305-1309D	116R-1 58–68 cm	2F	Oxide-/leucogabbro	574.0	50	n.d.	n.d.	2.158	0.703604 ± 13	0.513192 ± 11	10.8 ± 0.22
305-1309D	136R-2 21–29 cm	2A	Olivine gabbro	671.0	20	29	n.d.	0.166	0.702814 ± 12	0.513167 ± 19	10.3 ± 0.37
305-1309D	137R-2 85–91 cm	4	Oxide gabbro	675.1	40	n.d.	n.d.	0.080	0.702709 ± 12	0.513187 ± 09	10.7 ± 0.19
305-1309D	169R-1 90–100 cm	3D	Gabbro	823.9	5	102	n.d.	0.159	0.702627 ± 12	0.513221 ± 10	11.4 ± 0.19
305-1309D	227R-3 6–12 cm	2A	Olivine-rich troctolite	1095.0	50	30	n.d.	0.199	0.702686 ± 13	0.513129 ± 38	9.6 ± 0.73
305-1309D	237R-2 6–18 cm	1B	Olivine-rich troctolite	1140.6	10	21	0.26	0.201	0.702693 ± 10	0.513227 ± 07	11.5 ± 1.35
305-1309D	292R-2 78–88 cm	4	Gabbro	1398.6	20	n.d.	n.d.	0.172	0.702614 ± 12	0.513203 ± 08	11.0 ± 0.16
304-1309B	11R-1 23–31 cm	1B	Harzburgite	58.6	90	2	n.d.	0.348	0.708862 ± 06	n.d.	n.d.

<sup>a</sup> Epsilon values were calculated with Eq. (1) from the initial <sup>143</sup>Nd/<sup>144</sup>Nd relative to CHUR (Nd)=0.512638 (Jacobsen and Wasserburg, 1980).