

# Recycling in debris-filled volcanic vents

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**Supplemental Table DR1:** 2015Pad1 crater geometries and buried subsurface tracer data.

Blast	Energy (J)	Scaled depth (m/J <sup>1/3</sup> )	depth (m)	diameter (m)	Depth of crater (m) above tracer position		Location of exposed tracer (position depth cm)
					A (0.5 m)	B (0.75 m)	
1	7.50x10 <sup>5</sup>	3.85E-03	0.37	1.26	0.12	0.00	-
2	7.50x10 <sup>5</sup>	3.85E-03	0.53	1.57	0.18	0.05	A15: ejecta 2.13 m
3	7.50x10 <sup>5</sup>	3.85E-03	0.60	1.63	0.25	0.05	-
4	7.50x10 <sup>5</sup>	3.85E-03	0.62	1.69	0.32	0.13	A30: crater rim 0.89 m
5	7.50x10 <sup>5</sup>	3.85E-03	0.66	1.76	0.51	0.34	A30: crater rim 0.89 m
6	7.50x10 <sup>5</sup>	3.85E-03	0.67	1.84	0.34	0.15	A30: in crater 0.58 m
7	7.50x10 <sup>5</sup>	3.85E-03	0.70	1.89	0.43	0.22	A30: in crater 0.45 m A45: ejecta 6.43 m
8	7.50x10 <sup>5</sup>	3.85E-03	0.74	1.89	0.45	0.25	A30: in crater 0.47 m
9	7.50x10 <sup>5</sup>	3.85E-03	0.76	1.90	0.47	0.28	A30: ejecta 1.13 m A60: ejecta 4.10 m
10	7.50x10 <sup>5</sup>	3.85E-03	0.81	2.02	0.46	0.24	B15: in crater 0 m

\*Tracer names include horizontal position A or B which indicates lateral distance from crater center and depth below original pad surface in cm e.g. A30. Final position distance is measured radially from the charge location.

