

Cometary Cell C2052

Images

Aerogel Cell: [C2052-01.jpg](#)
[C2052_T1_20x.jpg](#)

Cell History: Cell C2052 was removed from the cometary grid in February 2006.

Track Information: The tile has several medium- to small-sized tracks, which were keystoneed / removed in April 2006 resulting in Tracks 66, 73, 76, & 81.

Feature Images

Allocation History

Results

Log Entries

Note: All track / features (e.g., T1) numbers assigned during the Level 3 scanning are to be considered “**Temporary**” and in do not relate to the “Official” track number that is assigned when a given features is extracted (e.g., Keystoneed) from a tile. Abbreviations: EH – Entrance Hole, TP – Terminal Particle, MTW – Maximum Track / Bulb Width, TL – Track Length.

02-14-06 – THSee

Mounted tile **C052** into the Level 3 jig and began processing this tile around ~9:30 am.

This tile contains one large track that is easily visible to the naked eye. During setup for Level 3, I noticed a small track in the top, front corner in an area that is cracked and could easily come off if not careful.

C052-T1-T2 – Possible two small tracks very close together. Could also be small fractures located ~1.8 cm from left end and 0.9 mm. Length of longest track(/) is 217 μm . Imaged @ 100x. Could not locate for diffuse imaging. **Re-examination of this feature shows it to be a fracture in the aerogel and not two small tracks.**

C052-T3 – Located 1.93 cm from left ~9.7 mm from the front surface. Particle at the end of the track. Track measures ~350 μm in length. Could not locate for diffuse image. Eh on the order of 9 μm with MTW of ~ 30 μm .

C052-T4 – Located a bit behind and to the right of the largest track in this tile. Could not image due to location and obstruction from large track. Small carrot located at 2.34 cm from left end and 1.12 cm from the front surface. Track appears to be ~500 μm in length. This track is actually bifurcated and terminates with two tracks and two terminal particles. Again imaging and measurements cannot be made due to the obstruction caused by the large track along the same line.

C052-T5 – Largest track in tile. Located 2.3 cm from left end and 7.6 mm into tile from front surface. Imaged at 12.5x. Turnip-shaped and bifurcated track splits in to three separate tracks below the main bulb. Lengths are ~ 4.2, 5, & 6 mm in length. Four terminal particles down separate tracks; and extra track was noticed in this lighting condition. Top two particles are ~ 13 to 15 μm in diameter, while the second longest track possesses a particle ~20 μm in diameter and the longest track particle is ~21 to 22 μm in diameter. Image five (5) terminal particles and 50x. EH is ~ 200 μm with MTW of ~ 1100 μm .

C052-T6 – Located ~2.9 cm from left end and ~9.3 mm from the front surface. Small, bulbous track with no obvious terminal particle. Track length ~275 μm . Imaged at 100x. No obvious particle to measure. EH of ~ 23 μm and MTW of ~ 120 μm .

C052-T7 – Another small bulbous tracks like T6. Located 3.2 cm from left and ~7.2 mm from front surface and ~ 300 μm long. Terminal Particle is too small to measure. EH on the order of 45 μm with MTW of ~125 μm .

C052-T8 – Track is located ~3.6 cm from left end and ~5 mm in from the front surface. Track is ~ 1.4 mm in length and is located partially in the fracture or chip in the right in of the tile. Imaged @40x. Terminal Particle ~ 10 μm in diameter.

C052-T9 – Small track on right end of tile located 3.8 cm from left end and ~0.4 mm from the front surface. Very small, but particle present. Appears to be in a chip that is coming loose from the main tile. Track is ~ 420 μm in length. Imaged @100x. Terminal particle ~ 5 μm in diameter. EH ~ 20 μm with MTW of ~ 40 μm .

C052-T10 – Another small track located in the front fragment or chip that is coming loose from the main tile. Located 3.85 cm from left end and ~0.56 mm in from front surface. Track measures ~ 545 μm in length. Imaged @ 100x. Terminal particle ~ 5 μm in diameter. EH ~ 14 μm with MTW of ~ 110 μm .

Acquired Top7 and Top20 around ~1:30 pm. Completed tile @ ~ 2:20 pm.