### Details of Electronic Supplementary Information (ESI) – Videos of single crystals tracked in solution slugs

N.B videos are rotated by 180° and thus is observed as residing in the top of solution slug, when in fact the single crystals position themselves in the rear end of a solution slug at the bottom.

**Unseeded PCM Form I**

**6.7 m**

* 20190728\_1517\_0003\_Unseeded PCM\_6\_7m\_Set 1 Video
* 20190728\_1521\_0003\_Unseeded PCM\_6\_7m\_Set 2 Video
* 20190728\_1521\_0009\_Unseeded PCM\_6\_7m\_Set 3 Video
* 20190728\_1559\_0003\_Unseeded PCM\_6\_7m\_Set 4 Video
* 20190728\_1614\_0001\_Unseeded PCM\_6\_7m\_Set 5 Video

**8.7 m**

* Set 1 - No video to accompany diffraction data
* Set 2 - No video to accompany diffraction data
* 20190726\_1839\_0014\_Unseeded PCM\_8\_7m\_Set 3 Video
* 20190726\_1928\_0010\_Unseeded PCM\_8\_7m\_Set 4\_Video
* 20190726\_2023\_0043\_Unseeded PCM\_8\_7m\_Set 5\_Video
* 20190726\_1405\_0014\_Unseeded PCM\_8\_7m\_Video with no accompanying diffraction data

**Seeded PCM Form II**

* 20190727\_2340\_0004\_Seeded PCM form II\_Set 1\_Get Form I\_Video
* 20190727\_2355\_0010\_Seeded PCM form II\_Set 2\_Get Form II\_Video
* 20190728\_0038\_0007\_Seeded PCM form II\_Set 3\_Get Form II\_Video
* 20190728\_0038\_0008\_Seeded PCM form II\_Set 4\_Get Form II\_Video
* 20190727\_1347\_0050\_Seeded PCM form II\_Video with no accompanying diffraction data