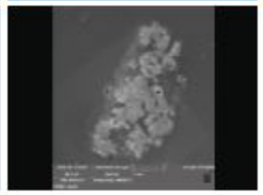
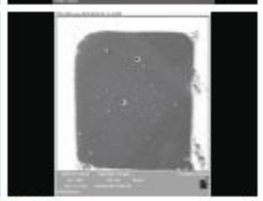
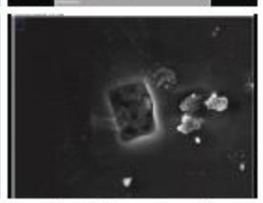
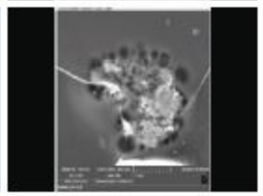
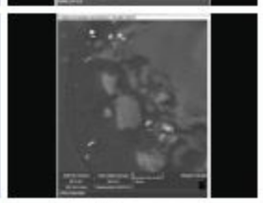
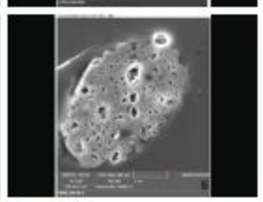
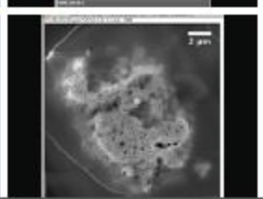
Stardust SEM Bullet Survey Volume 1

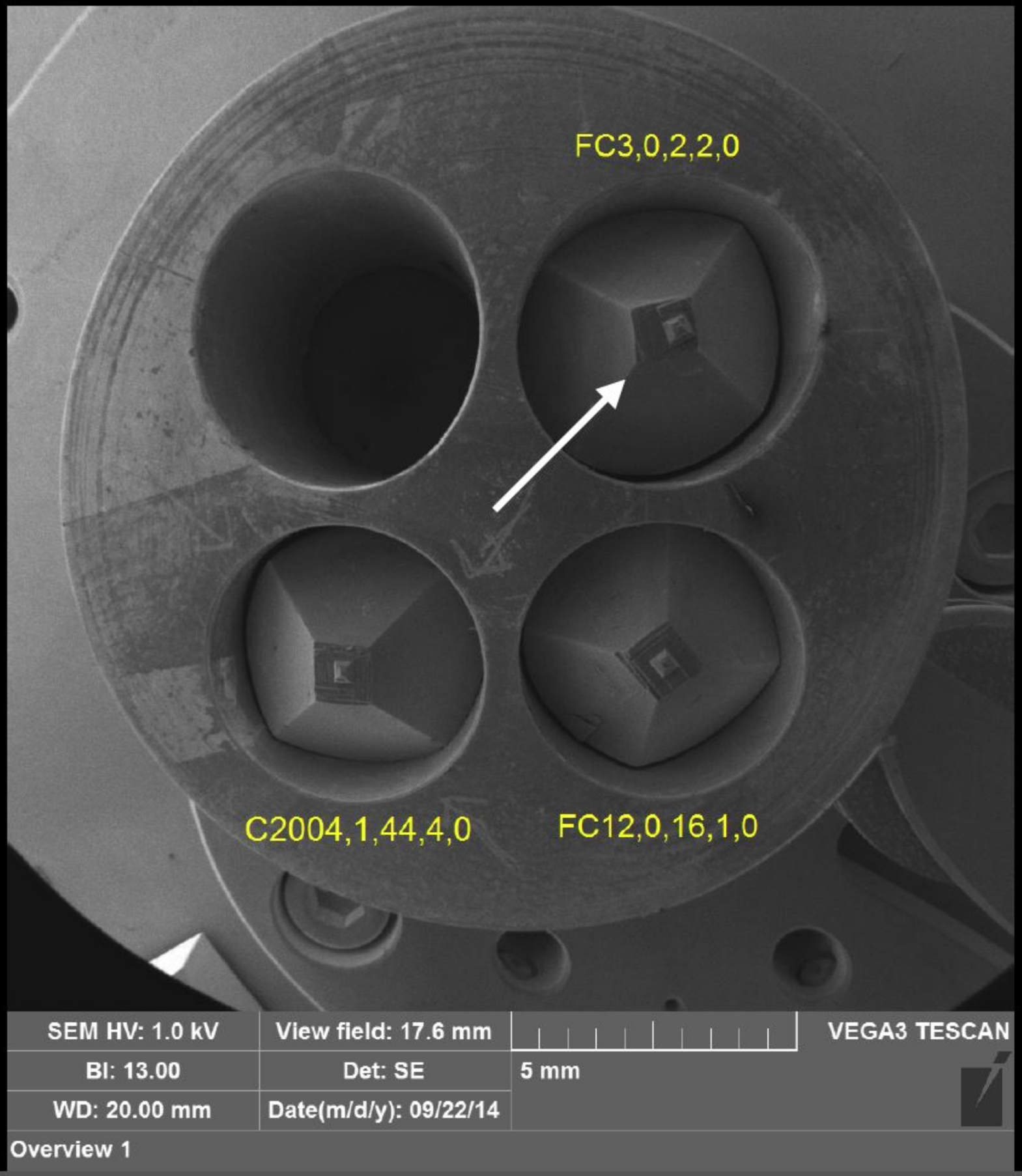
Zack Gainsforth

22 Sep 2014

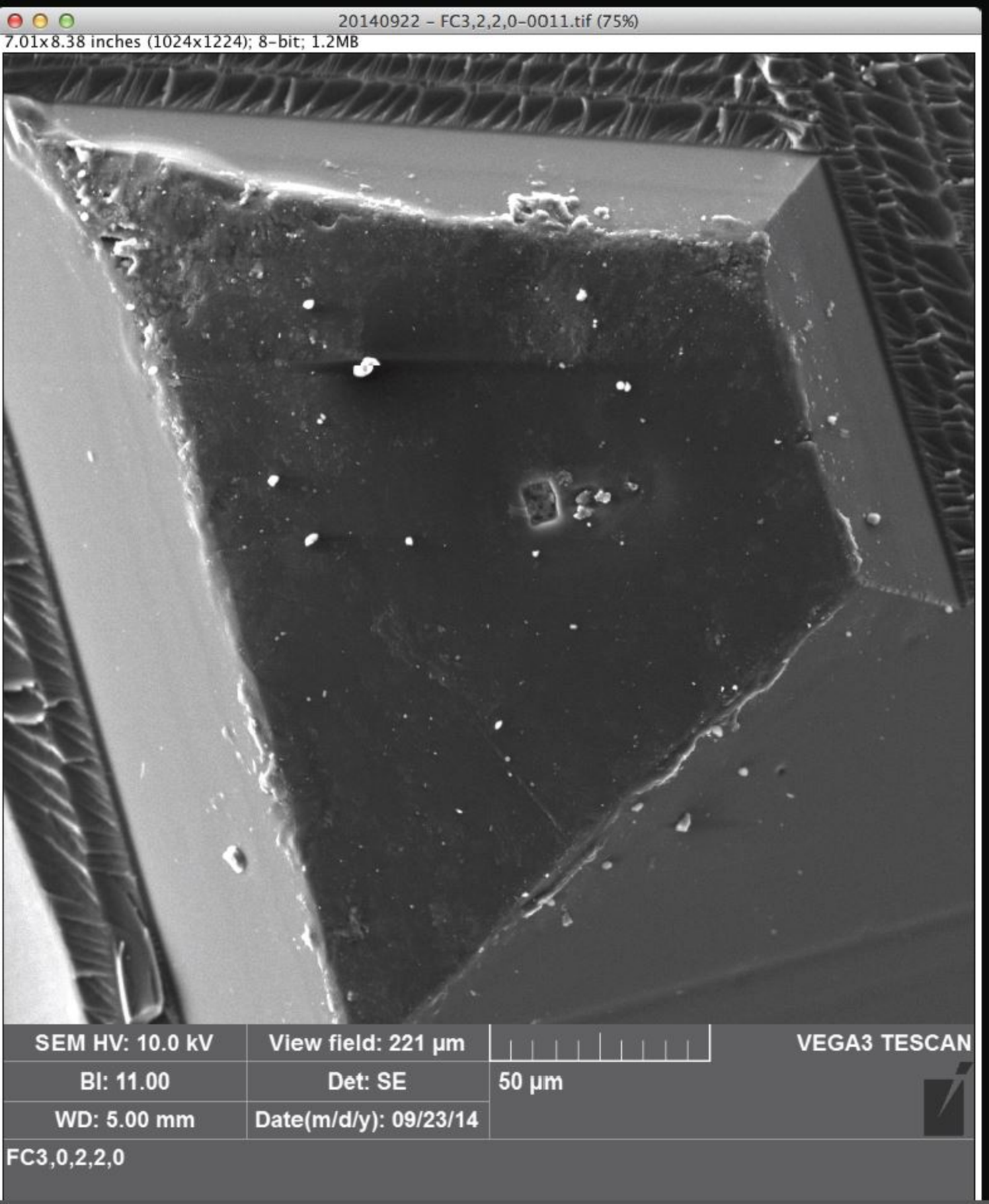
Summary

Bullet	Image	EDS	Summary	Recommend SIMS?
C2004,1,44,4,0		Y	Material clearly visible. Fine grained.	Y
FC12,0,16,1,0		N	Nothing visible.	N
FC3,0,2,2,0		N	Material visible, but likely altered by previous experiment.	N
C2054,0,35,16,0		N	Material visible, possibly altered by previous experiment	N
C2044,2,41,3,0		Y	Material visible. Heterogeneous assembly of different phases.	Y
C2092,2,80,46,0		Y	Aerogel visible, not clear if much track is present.	Y
C2092,2,80,48,0		Y	Material clearly visible. Fine grained.	Y
C2092,2,80,49,0		Y	Material clearly visible. Fine grained.	Y

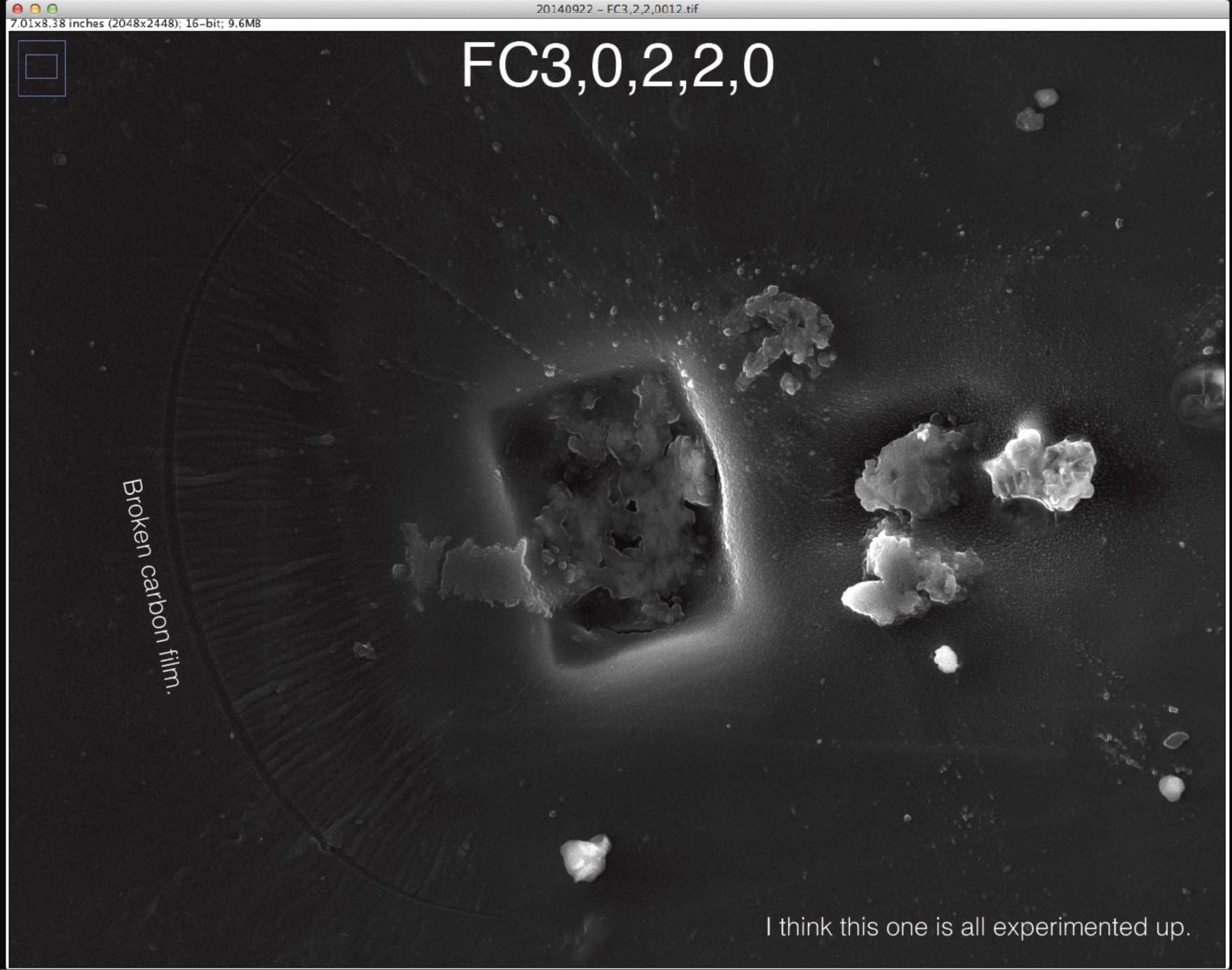
Overview


FC3,0,2,2,0
C2004,1,44,4,0
FC12,0,16,1,0
SEM HV: 1.0 kV
View field: 17.6 mm
VEGA3 TESCAN
BI: 13.00
Det: SE
5 mm
WD: 20.00 mm
Date(m/d/y): 09/22/14
Overview 1

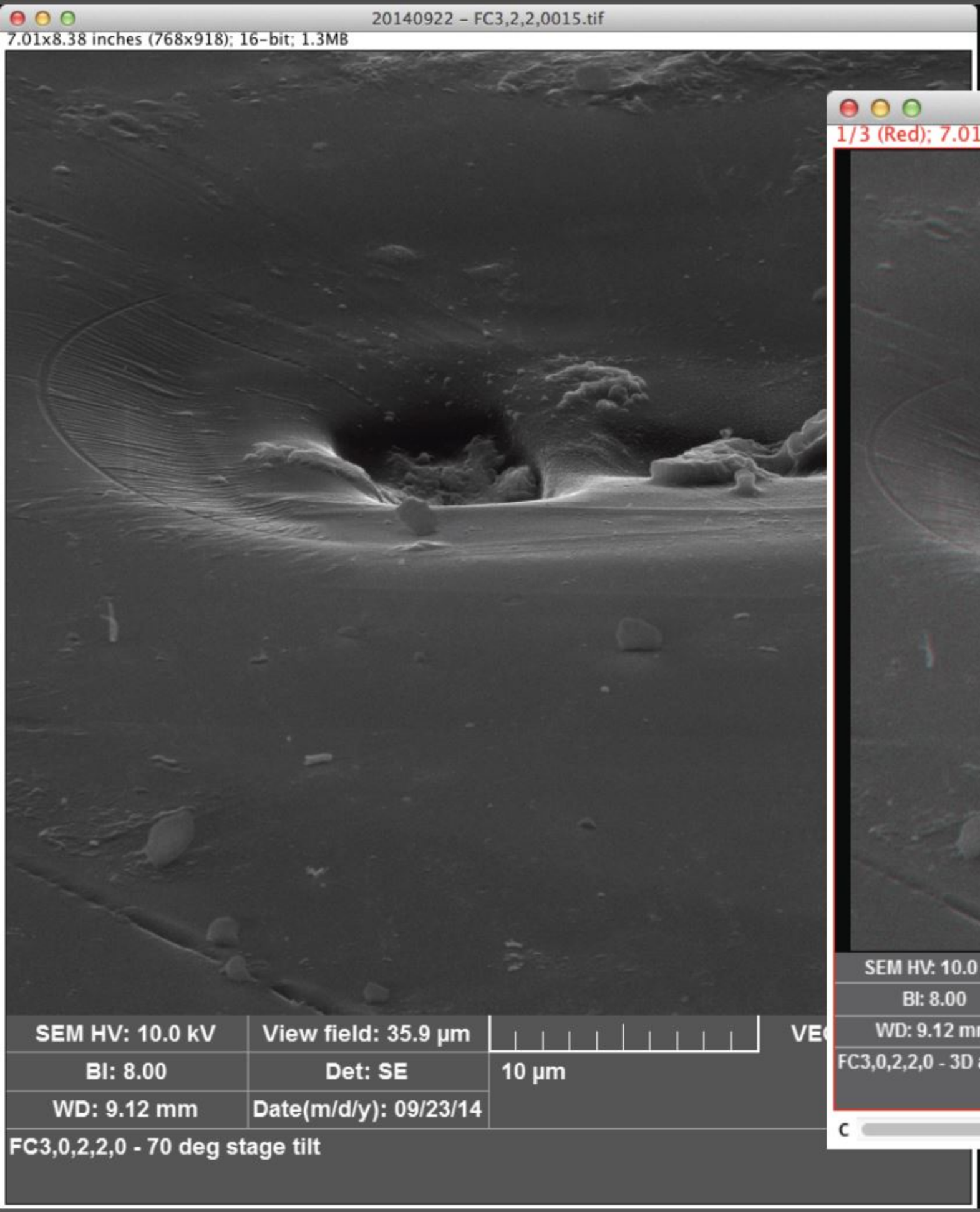
FC3,0,2,2,0

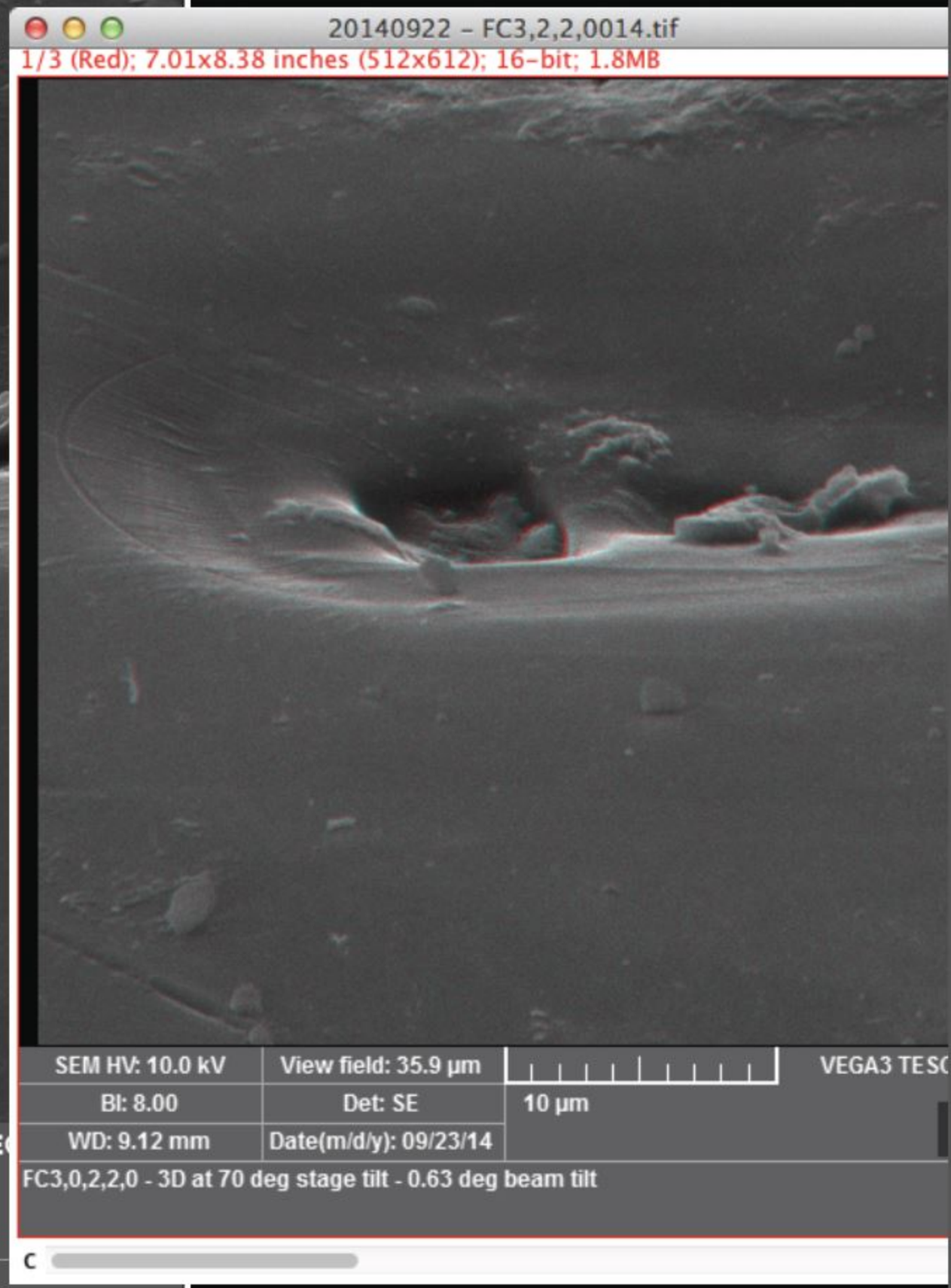


Already a crater in the middle.


20140922 – FC3,2,2,0012.tif
7.01x8.38 inches (2048x2448); 16-bit; 9.6MB
FC3,0,2,2,0
Broken carbon film.
I think this one is all experimented up.

FC3,0,2,2,0


20140922 - FC3,2,2,0015.tif
7.01x8.38 inches (768x918); 16-bit; 1.3MB
SEM HV: 10.0 kV
View field: 35.9 µm
BI: 8.00
Det: SE
10 µm
WD: 9.12 mm
Date(m/d/y): 09/23/14
FC3,0,2,2,0 - 70 deg stage tilt


20140922 - FC3,2,2,0014.tif
1/3 (Red); 7.01x8.38 inches (512x612); 16-bit; 1.8MB
SEM HV: 10.0 kV
View field: 35.9 µm
BI: 8.00
Det: SE
10 µm
WD: 9.12 mm
Date(m/d/y): 09/23/14
FC3,0,2,2,0 - 3D at 70 deg stage tilt - 0.63 deg beam tilt