Analyses of lunar mission cuff checklist from Gene Cernan, Apollo 17

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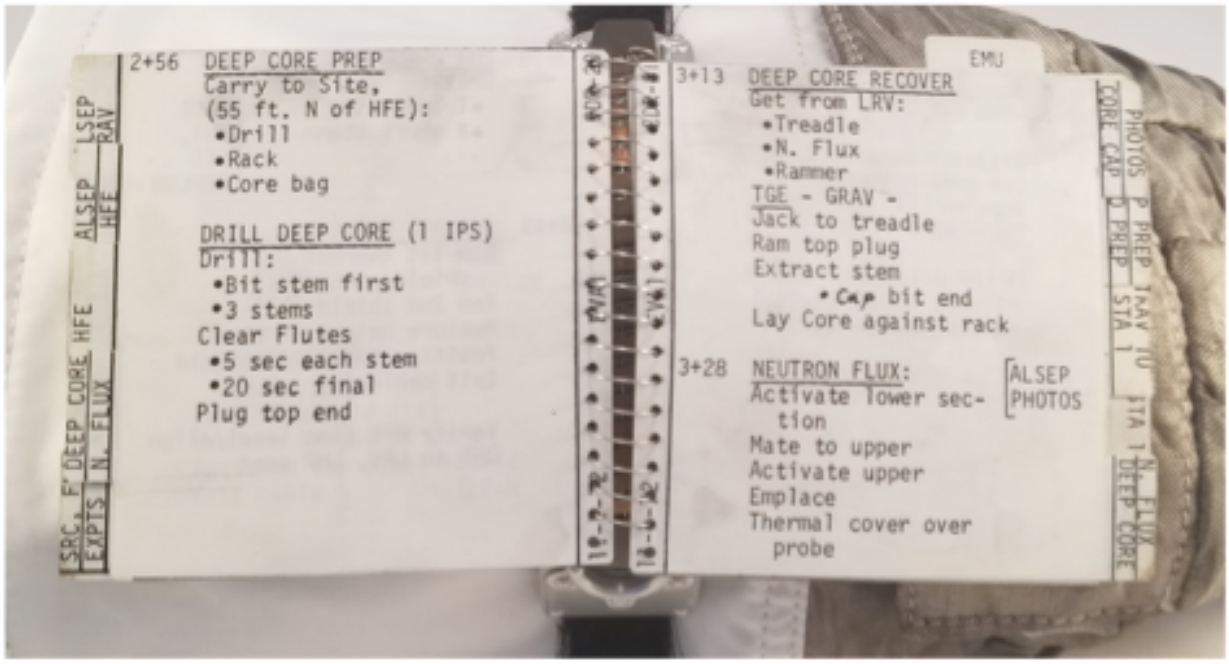
Supplemental Notes Detailing Where Samples Were Taken for the Six Aluminum Stubs Used in Secondary Electron Microscopy (SEM), with Energy-dispersive X-Ray analyzer (EDX) and Back-scattered Electron (BSE) imaging.

ST_1 corresponds to sample collected from a streak of material observed above the "t" in "Install". (LEFT PAGE, 0+46)

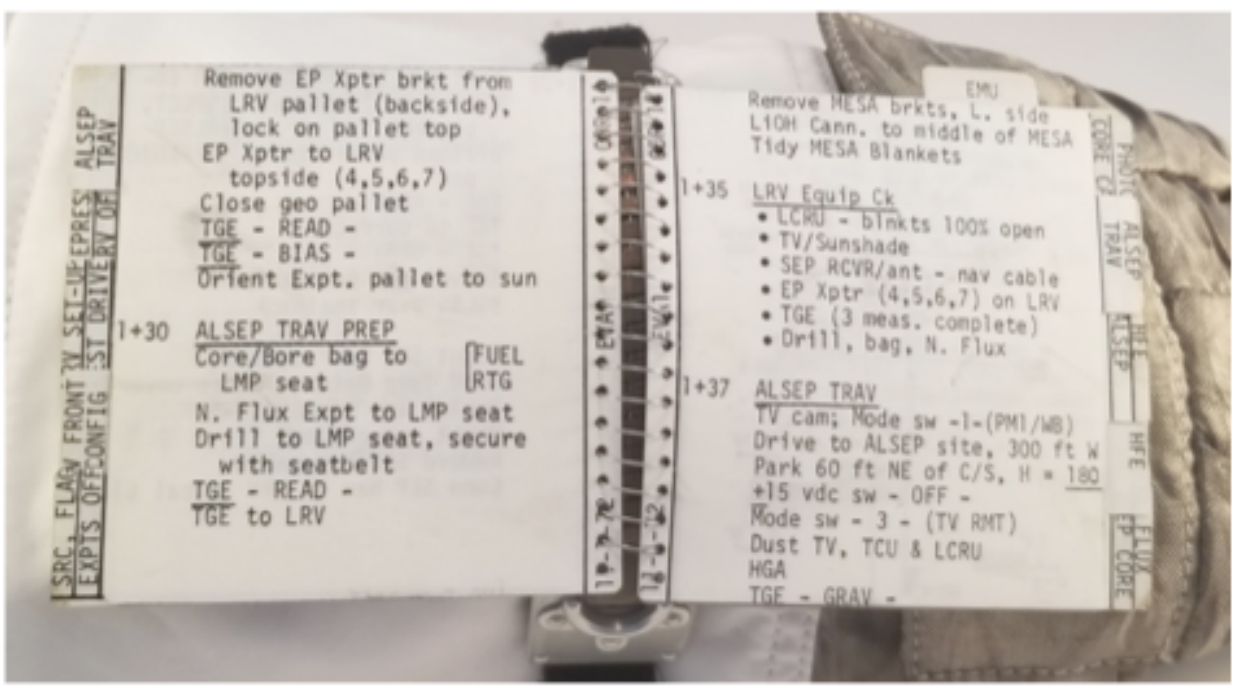
ST_2 sample collected from a smudge at center bottom of page (RIGHT PAGE, 1+08)

ST_3 Sample collected from streaks near the upper right corner. (RIGHT PAGE, 3+13),

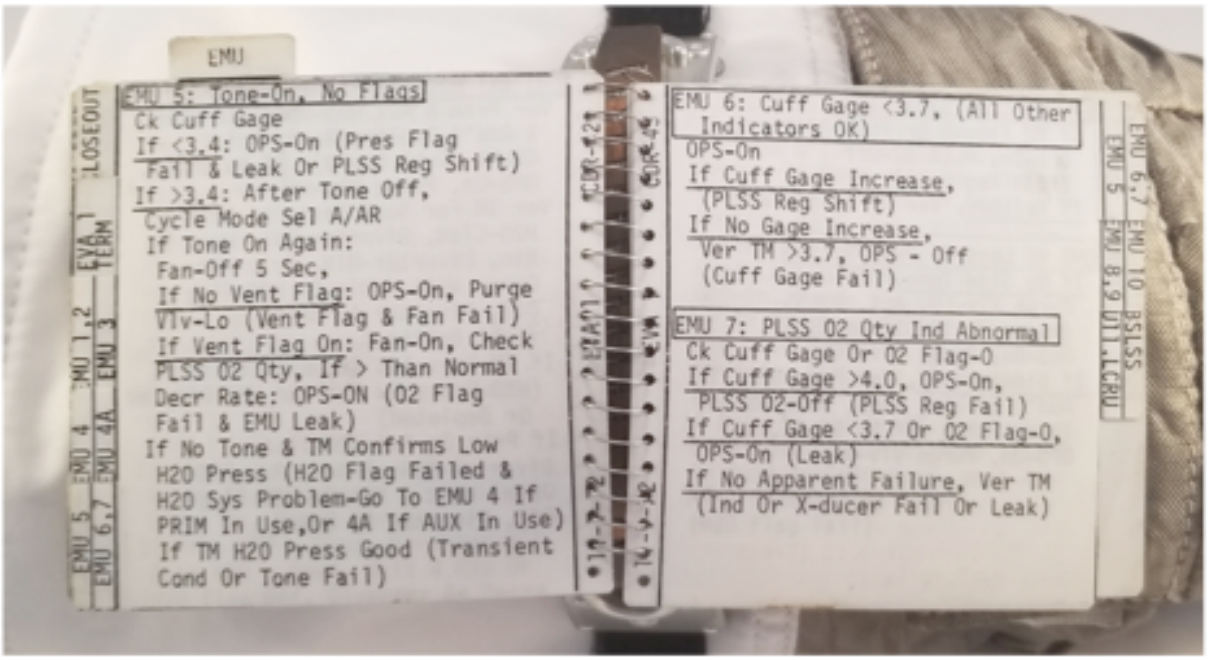


ST_4 Sample collected from a streak between "LMP" and "seat". (LEFT PAGE, 1+30)

ST_5 Sample collected from a smear near "H=180". (RIGHT PAGE, 1+37)

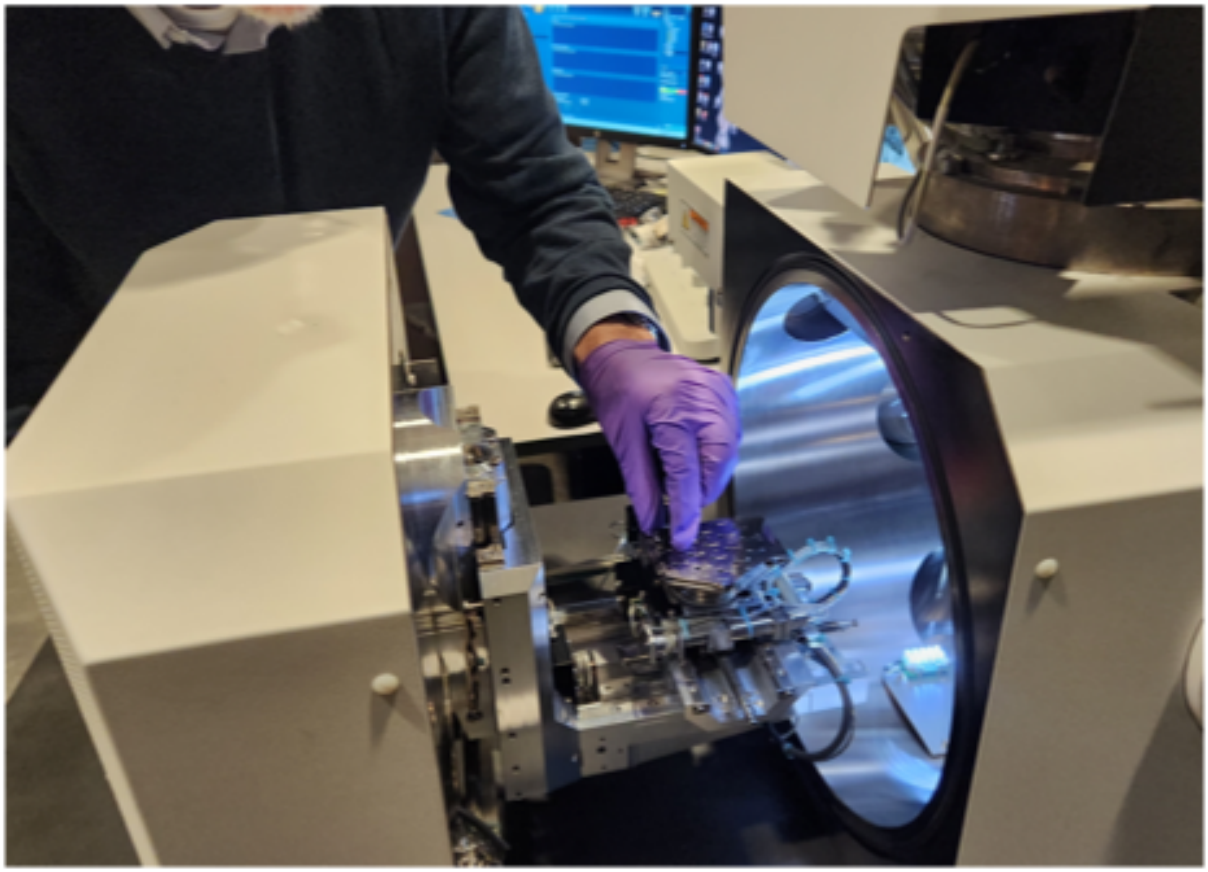
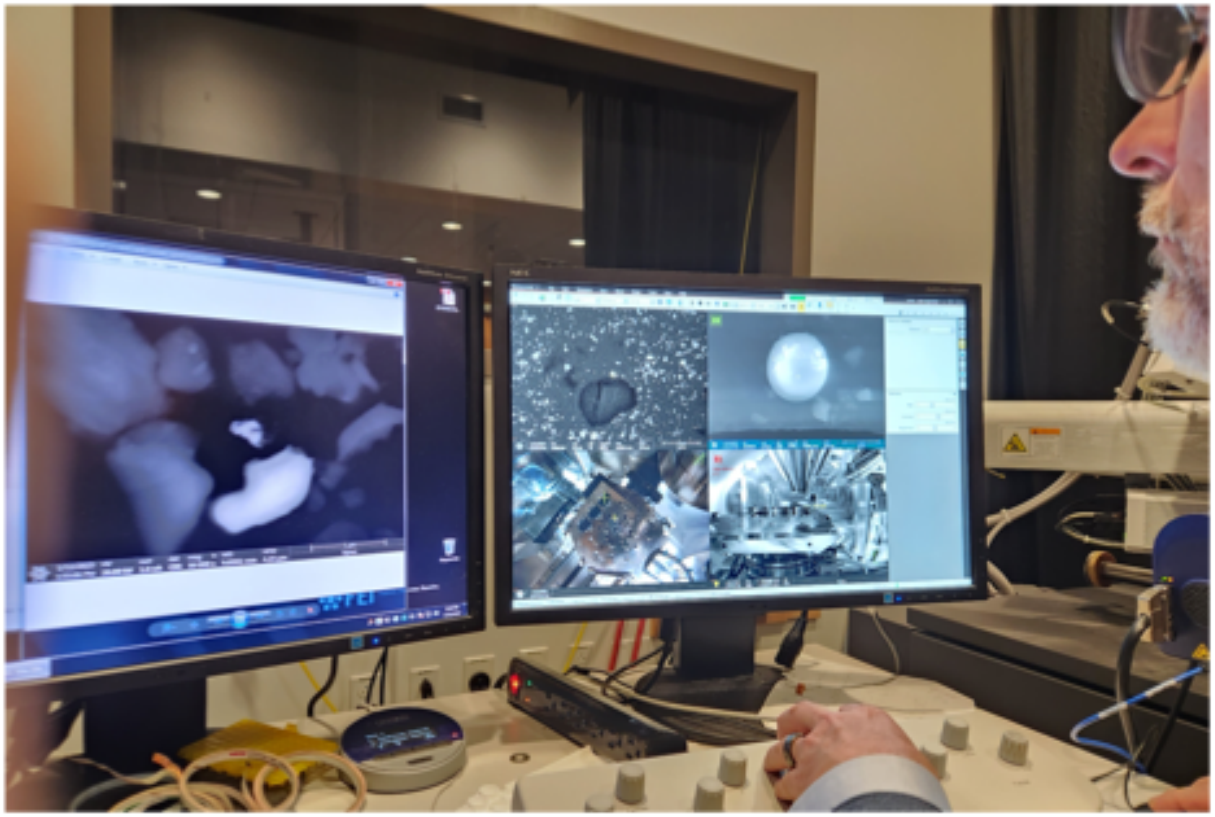
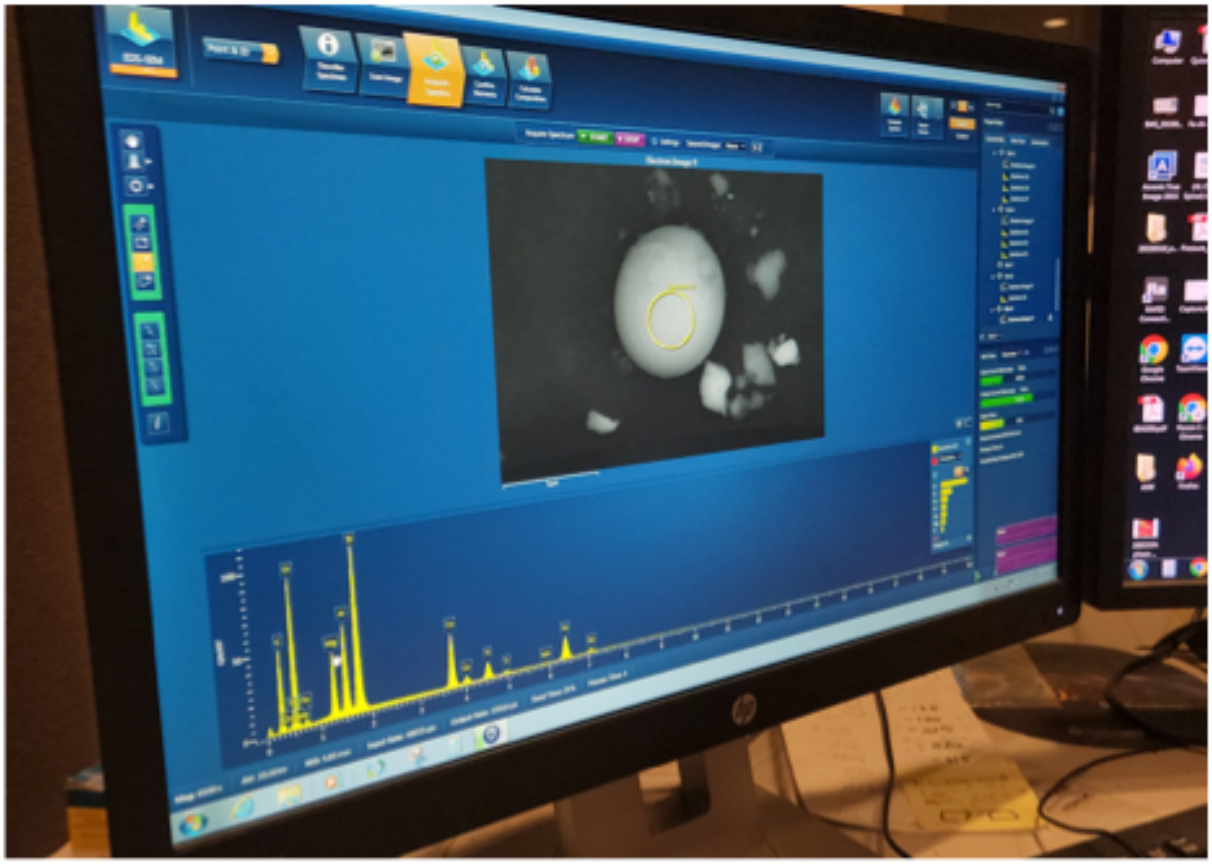


ST_6 Sample collected from the upper right of the page where a large smudge was found. (RIGHT PAGE, EMU 5)



EMU

EMU 5: Tone-On, No Flags
Ck Cuff Gage
If <3.4: OPS-On (Pres Flag Fail & Leak Or PLSS Reg Shift)
If >3.4: After Tone Off, Cycle Mode Sel A/AR
If Tone On Again:
Fan-Off 5 Sec,
If No Vent Flag: OPS-On, Purge Vlv-Lo (Vent Flag & Fan Fail)
If Vent Flag On: Fan-On, Check PLSS O2 Qty, If > Than Normal Decr Rate: OPS-ON (O2 Flag Fail & EMU Leak)
If No Tone & TM Confirms Low H2O Press (H2O Flag Failed & H2O Sys Problem-Go To EMU 4 If PRIM In Use,Or 4A If AUX In Use)
If TM H2O Press Good (Transient Cond Or Tone Fail)

EMU 6: Cuff Gage <3.7, (All Other Indicators OK)
OPS-On
If Cuff Gage Increase, (PLSS Reg Shift)
If No Gage Increase, Ver TM >3.7, OPS - Off (Cuff Gage Fail)

EMU 7: PLSS O2 Qty Ind Abnormal
Ck Cuff Gage Or O2 Flag-O
If Cuff Gage >4.0, OPS-On, PLSS O2-Off (PLSS Reg Fail)
If Cuff Gage <3.7 Or O2 Flag-O, OPS-On (Leak)
If No Apparent Failure, Ver TM (Ind Or X-ducer Fail Or Leak)