

14 CREW PROJECT DEBRIEF - 2-17-71

0900 -

- * Launch + insertion - good description of fullness in head + stuffiness. C.V. effect. No effect on perf. No vertigo, disorient or N/V. No fogs on SNO.

Locking - Probe extended normally. ① Locked + came out. 0.2 ft/sec
 ② 2nd one 1' / sec contact again + no capture. Noted two scratches 120° apart on dogue. Thought latches locked + wouldn't go in.
 ③ Tried contact @ 4 sec + X - no capture. IVB vented. Discovered hard painted ④ Tried another - no capture.
 ⑤ Try again - held + X, let retract + 2-3 sec later - not working. No further pole change. Then flush further pole + latches - hard dash. Scratches into metal. "Hard dock" - sounds bad - define terms.

* Generally - food was good!
 minor complaints for dietetic dept.
 Glb of hot water on probe all the time - Kleenex used.
 * What? Exercised - maintained good state of health by this.

Al invol. held on c feet + legs - tending legs → Tired legs back.

Ed - Tension in small back + legs from 2nd day on. "Could it be mine". Exer. gym relieved this feeling. Head full all time 1st nasal spray relieved for 6-8 hrs.

Stu - closed after 1st day. Used some close to entry.

Al - if relaxed - head clear. Disappeared in 1/6 g.

Stu could relax anywhere except in couch. Legs bent - back - legs of front. Think horns in the tunnel + can't sleep better.

Ed - Tendency to float up. always higher by 3" than 1 g. location.

Al - couldn't find up or down in the dark.

* Sleep - only about periods 2-3 hrs. - awake, drowsy - asleep 2-3 hrs.

* Urine Kleenex - "Nyxell" - Day - Overboard drain open. Top closed. worked well - little residual urine. Overboard dump freezing up.

Cup blew off if out of P.T.C. + opening froze. like GT-7.

PHOTO - No clogging of filter. Flushed w/ water gun. Freezing at vent opening.

* Ed - did you wear device + how long.

Can see millions of particles (urine) thru telescope. Stop dump alcohol.

Warmed atmosphere of mine continually. Fell best when dark adapted.

LiOH containers well marked + not tamable.

Chlorinated insecticide - no taste in H₂O at all. Noted great!

no real bubble problems. Accepted those in hot water. Some bubbles whether you used gas separator or not.
Daylight savings time - no problems.

PTC - easy to start & worked well.

Loi -: Windows clear at outset. Later intermittent condensation inner side inner pane. Tacky oil. Ice flecks occ.

Hyeon Camera problem - noise.

Drench suit time in training.

* ECG sensor malfunctions. Connector at ECG end. stripped. Ed. & al.

* Need time history ECG malfunctions.

Plan for trouble shooting the sensor difficulties. Very good conditions?

C.M. Common during separation was terrible! Couldn't talk to anyone. Antenna problem.

Beautiful help from ground prior to lon landing.

Landing - Site looked just as expected. Ready & not behind at PDI. Guidance initiate on looked good until landing index switch - worked. AGS & PGWS. worked well. Nominal from then on. at 1000' auto targeting looked short.

Dunk over & flew over triplet at 250' & then descended.

Dust at 100' rocks visible thru it. Touched lightly.

3'/sec $\downarrow$ 0.14" slow forward, 7° angle $\downarrow$ rt. sl. yaw.

Dust problem $\bar{c}$ exp. on edge, bolts covered $\bar{c}$ dust on palette.

Antennae hang up - Ed undid it. Large amt. time wasted adjusting T.V. Pon of the area was excellent. Bob G. stressed imp. of crew adjusting T.V.

NET Use Clumsy at first. Landing went well. Bounced well.

Loped 10'-12' steps $\bar{c}$ NET. Smooth trucks - no dust thrown around - squished out to sides. Jires inflated to 1 1/2 #. even.

Bushell flexed like fishing rod - Nanted several arms - everything.

Landed in 100' of rate. ALSEP at site.

Geophones difficult to get in ground.

Thumper very hard to fire. Took all his strength like cracking ice nuts.

STID. Super thermal ion detector.

Thinner layer of dust than 11 & 12. Shit on suit - easier off metal. Could remove loose dust & knock off on ladder. Less dust

* * mkm. - some on floor. Kinked urine hose - Ed thru zipper to fix - grease lubricated pad on neck & wrist hinges. Took torso off.

outer shoes off - Towel for dust on hands.
 Hammocks out. Didn't sleep more than 1 hr at
 time. Suits on difficulty - comfort. Tilted 7°
 settling - at worried & awake Ed. Did feel rested.
 Ed head down. Up early

? Feeling @ 1/6 g.

* Glue anomaly - jumped to left side & down. More effort
 to move hand & wrist.

try seriousness?

Magnetometer coil was a problem. 1st 2 steps OK. Navigation
 problems - surface not like the maps. go very close to large
 100' crater & not see it. Distances were very difficult.

* Lighting or contrast?

West flank of cone 20° incline. 18° slope the way they went.
 0 phase? Could tug & lift MET. Adhering to time line -
 uneasy feeling. May have been 2 in 150-200' from S rim.
 Saw some great boulders. Raindrops dappled regolith surface.
 New rock material - saw inclusions & crystal structures.

White rock near cone. 1/2 brn 1/2 white boulder.

Talk MET back coming down hill - 10-14' leaps. No good for slts.

* 2x as hard to climb 18° slope as go over flat area.

Wind around a great deal. Didn't feel they were reaching

* physical limit at anytime.

Temp rate? _____ Heart rate? _____ got warm -
 shifted cooling - rested & then OK.

What feeling - movement easy, uneasy re position & time line.
 Always aware of being on alien planet but could psych yourself
 into being on earth.

Feel you're on a scale model. Unreal.

Never lost but difficult to see location on map.

Halo effect around your shadow - can't see in shadow or in
 halogen shine & directly at ^{down} sun.

Ingress. Trench - no good vertical walls but thru several layers.

Extra rock bags. Box in one hand. Rock bag in 1 hand.

golf ball hit down sun -

Lot of stuff in lim. much storage.

Tag H-8 left on surface - Ed. screw up.

Can't see light hyteresis on T.O. or landing. Reson
1 dust ore imppt.

Al - good to get Ror2 out of way in hurry, especially after long day!
Com at 5.7 all day - little leak!

No floating dust in suit transfers though suits dirty.
Vacuum cleaner worked very well - decon. procedure good.
Little dust in km. Vacuumed then in bags. Some swept from
rock bag when it's opened on T.V. show.

Lm sep. moved away solid & easy - no waver.

* Time line was as tight as any one can do
* Dragging the next day - tired & busy 2 days.

→ Wind up razor carried & worked well daily. No loose whiskers.

* Al - blue bag during electrophoresis. ? results. only red & green lines
in cell!
Experiments loaded well by MSCF. long day, etc.

News Conf. was not traceable.

? * Did they tape down the PRD's in overall pocket?
No real water condensate in tunnel or s/c.

Lite flashes - random diff. configurations, prominent.
Do not have to be dark adapted to see them.
More soon in early am to sleep.

No pentry storage problems.

Red outside before 0.5 g.

? * Did they feel inc. g. Whole chute & s/c system rotated on way down.
Cabin pressure rise + good backup to chute.
Impact was very easy - everything stayed in place.
Recovery went very well.

* → No medications - no motion sickness.

Moved in LEB to reorient c.v. No leg heaviness.

Ed felt in gravity - heavy.

* Still no problems until on bunk & got up fast & got weak.

* Really down tubes in exercise - Didn't eat or drink as well.

Inlet exercise - exergym - 1 session each day isometric + 5 min.
To good sweat worked up.

glass in craters - rare.
 " splatter on rocks - 1x..

Why did science guys (Brett) do briefing of Staff.?

96# rocks.

no vacuum used. Using N_2 line. Smooth LRL operation.

12 rocks (> 2cm) 2.3 Kg. largest 570 gm.
 700 gm fines.

2 rocks { 1.3 Kg
 380 Kg..

2nd box to 1 atm pressure.. - other at 60 micra.

4 rock types - 1. fragmental white - feldspar fine grain. 80 gms.
 2. Soil compressed clastic rocks.
 3. fragmental - grey brown - fine grain white fragments.
 4. Igneous rock diff. from 11 & 12 basalts.

[K - Thor. Uranium 10X, 11 & 12 basalts.. - Low level counting LRL.

are different!
 why rock to other bldg.?