NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, DC 20594

September 10, 2021

Security Camera Recording

By Sean Payne

1. EVENT

Location:	Dinsmore, CA
Date:	July 15, 2021
Aircraft:	Mooney M20J
Registration:	N4474H
Operator:	Private
NTSB Number:	WPR21FA272

2. DETAILS OF INVESTIGATION

Beginning on August 24, 2021, the National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following electronic files:

Recorder Type:	**Personal Electronic Device (PED)**
Filetypes:	**.mov (IMG_0187.mov, IMG_0188.mov)**

2.1. Recorder Description

The recorded video files sent to the Investigator-In-Charge (IIC) were likely produced from a PED. The PED was used to record the playback screen of a security system. The IIC reported that the owner of the security camera system was unable to provide a raw download of the security camera's file system. Additionally, the IIC was unable to access the property in which the security camera system was installed. The owner of security camera system provided two .mov files that were a recording of the playback screen of the security camera system. The files were named IMG_0187.mov, IMG_0188.mov.

2.2. Timing and Correlation

The IIC's preliminary data reported that the accident occurred at 11:54 A.M. Pacific daylight time (PDT). One video file, IMG_0187.mov displayed a system time of around 10:48:09. The time settings of the security camera were unable to be obtained. The likely offset between the security camera's system time and PDT is around 1 hour and 6 minutes. Resulting timing information is not discussed in this report.

2.3. Summary of Video Recording Contents

Figure 1 shows the layout of the airfield, the camera locations, the wreckage location on a Google Earth plot. The figure is intended to give context to the rest of the report. The camera field of view annotations are approximate.

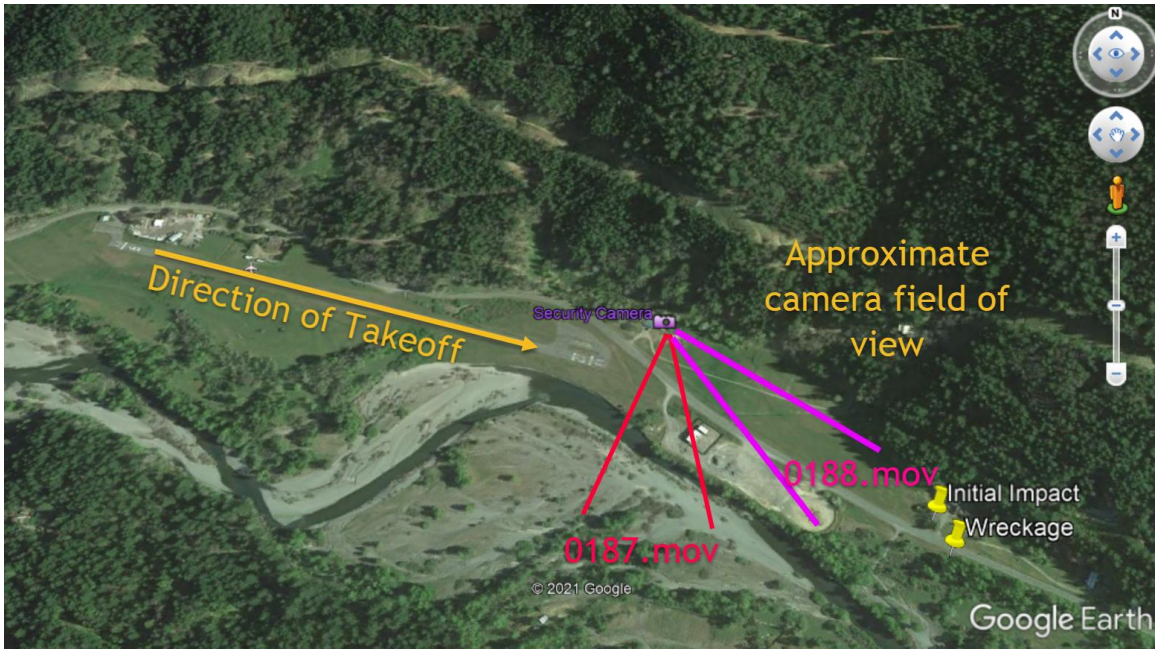

Figure 1. An annotated Google Earth plot showing the layout of the airfield, the camera locations and the wreckage location.

IMG_0187.mov

Figure 1 shows the camera position and approximate field of view for recording IMG_0187.mov. The recording was taken from a point of view which was just past and abeam the departure end of runway 9 (past and abeam the runway 27 markings). At this point, the paved surface for the departure end of runway 9 was approximately 2,600 feet downrange from the camera.

Figure 2 is a photo of the aircraft crossing the position of the camera that recorded IMG_0187.mov. The still image export shows the aircraft at a low altitude, traveling east. The recording also shows the aircraft in a right bank. An arrow points to the aircraft, and another arrow points to the direction of runway 9/27.

Figure 3 is an exemplar photo of the accident aircraft. Note the accident aircraft's belly is red and the upper fuselage is white.

Attachment 1 is the video file IMG_0187.mov which has been cropped to highlight the flightpath of the aircraft. The video has been compressed to an .mp4 file.

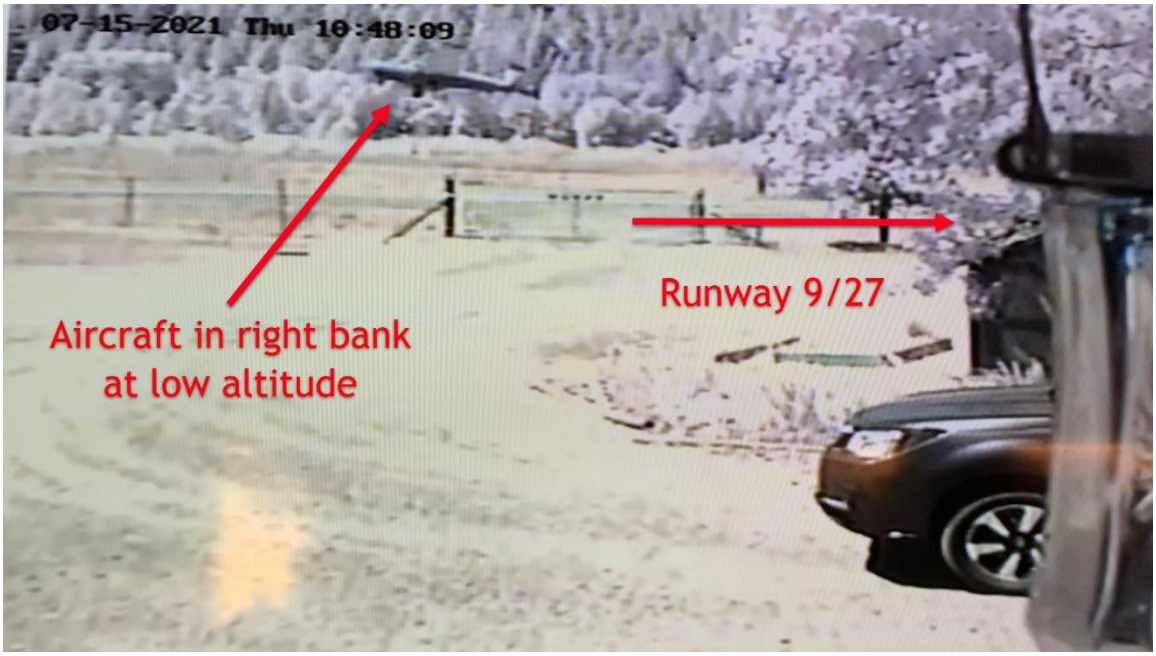

Figure 2. A still image export from the IMG_0187.mov recording.

Figure 3. An exemplar photo of the accident aircraft. Note the color of the accident aircraft's belly.

IMG_0188.mov

Figure 1 shows the camera position and approximate field of view for recording IMG_0188.mov. The recording was taken from a point of view looking roughly southeast from the camera location.

Figure 4 is a still image export of the aircraft entering the field of view in recording IMG_0188.mov.

Figure 5 is a still image export of the aircraft further down range from runway 9/27. Noted earlier was the accident aircraft's color scheme, the belly being red and the upper fuselage being white. The orientation of the colors indicates the aircraft is in a pitch up condition. The image is annotated to show this.

Figure 6 is a still image export of the aircraft after it had banked toward trees toward what was ultimately found to be consistent with the wreckage location. An arrow and reticle denotes the accident aircraft in the still image export.

Attachment 2 is the video file IMG_0188.mov which has been cropped to highlight the flightpath of the aircraft. The video has been compressed to an .mp4 file.

Figure 4. A still image export of the aircraft entering the field of view in IMG_0188.mov.

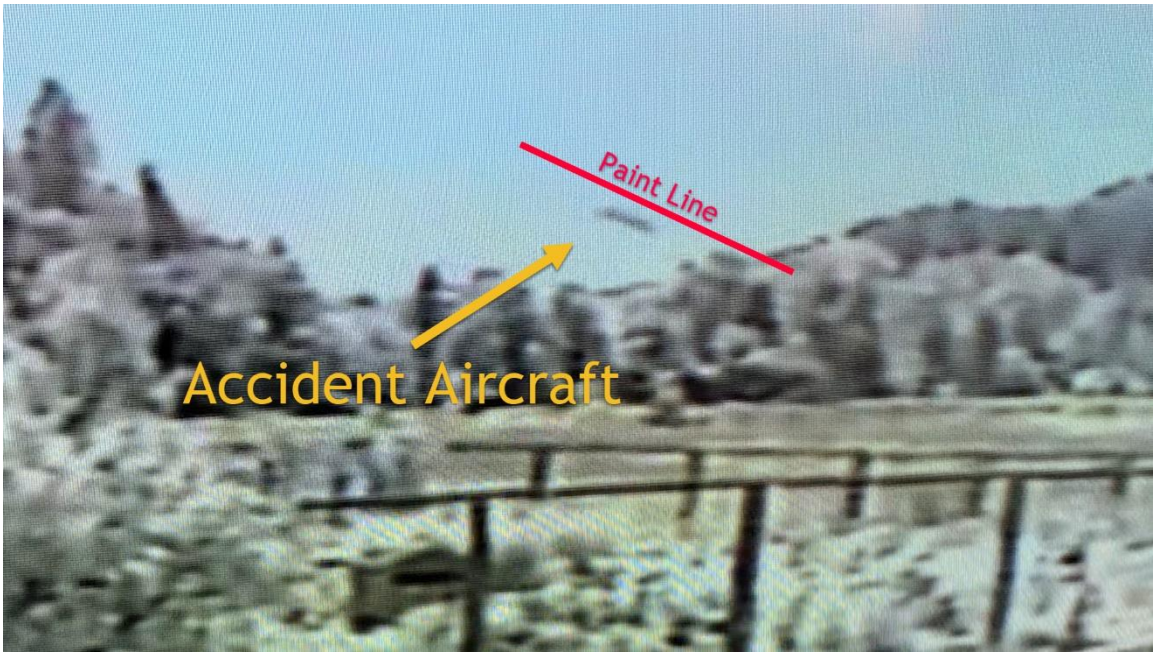

Figure 5. A still image export of the aircraft down range from runway 9/27. The aircraft is in a nose high condition. The paint line is annotated.

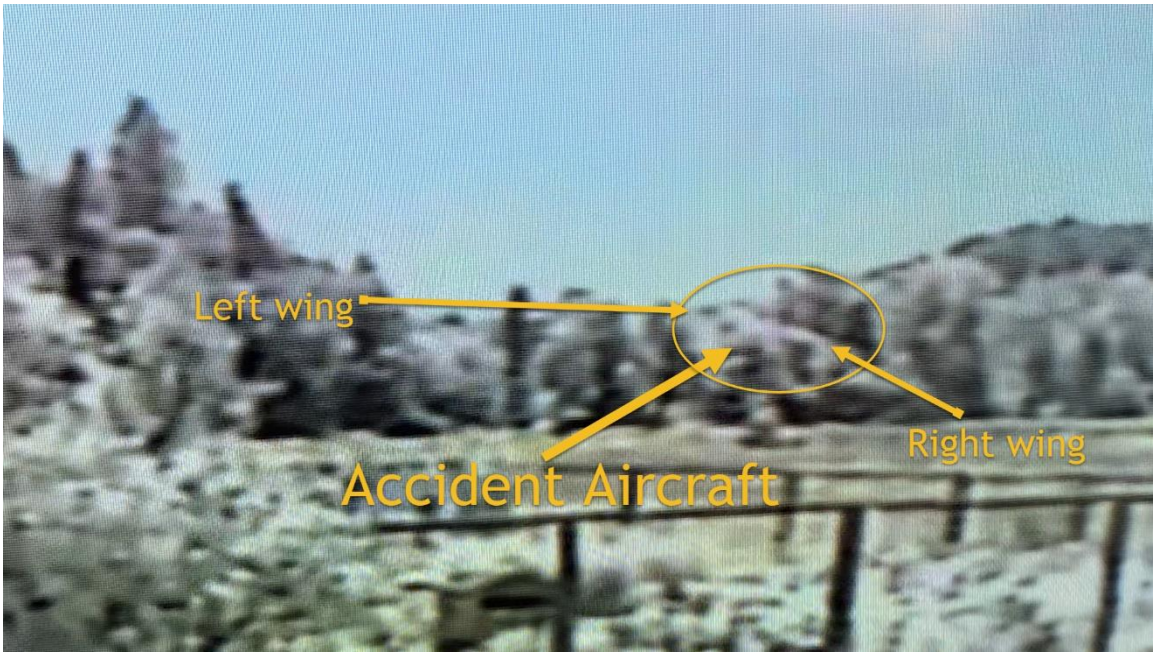

Figure 6. A still image export of the aircraft as it banked toward trees toward the wreckage location. The left and right wing are visible as the aircraft is viewed from behind.