



NATIONAL TRANSPORTATION SAFETY BOARD

**Office of Aviation Safety
Western Pacific Region**

DEBRIS FIELD INFORMATION

**NTSB Accident: WPR18FA035
Accident Date: November 19, 2017**

Data Collection Date: November 20, 2017

This document contains 3 embedded images

A. ACCIDENT

Location: Tehachapi, California
Date: November 19, 2017
Aircraft: Cessna 152, N24987, Serial # 15280496
NTSB IIC: Michael Huhn

B. EXAMINATION PARTICIPANTS:

Michael Huhn
Air Safety Investigator
National Transportation Safety Board
Western Pacific Region

Frank L. Motter
Airworthiness Inspector
Federal Aviation Administration
Van Nuys, California

Shane Cavette
Avionics Inspector
Federal Aviation Administration
Van Nuys, California

C. ACCIDENT SUMMARY

On November 19, 2017, about 1756 Pacific standard time, a Cessna 152, N24987, was destroyed when it impacted terrain shortly after takeoff from Tehachapi Municipal Airport (TSP), Tehachapi, California. The private pilot received fatal injuries. The personal flight was conducted under the provisions of Title 14 Code of Federal Regulations Part 91. Night visual meteorological conditions prevailed.

D. DATABASE SUMMARY

All components were accounted for at the accident site. The data was collected using GPS-provided coordinates from an iPhone, and converted to a kml file for visualization plotting in Google Earth.

When plotted, the location of the end of the first ground scar was observed to be in conflict with the photographic evidence and investigator's sketches. Although the reason(s) for that discrepancy could not be determined, the coordinates for that point ('B') were revised to match the physical evidence.

There was no means to verify the accuracy of the GPS coordinates of the remainder of the items, but inspection of the plotted data indicated that their locations appeared correct, and therefore no other coordinates were modified for this report.

E. DATABASE

1.0 Items and Coordinates

ID	Item	Lat	Long
A	1st ground impact	35.143412	-118.441769
B	End of 1st strike	35.143369	-118.441711
C	Start of second impact mark	35.143386	-118.441712
D	Ground scar enters vegetation line	35.143305	-118.44164
1	RH outbd aileron section	35.143322	-118.441697
2	RH Lwr right wing strut cuff	35.143281	-118.441671
3	RH wingtip LE	35.143275	-118.441534
4	Sheet Metal TBD	35.143293	-118.441542
5	Starter	35.143208	-118.441522
6	Alternator Bracket	35.143154	-118.441469
7	Propeller Flange segment	35.143129	-118.4415
8	Upper Cowl	35.143104	-118.441587
9	Upper nose bowl	35.143104	-118.441587
10	Propeller	35.143066	-118.441526
11	Clipboard & DG	35.143093	-118.441412
12	VSI	35.143084	-118.441407
13	Inst Panel Section w ASI	35.143078	-118.441449
14	LH Fwd Door Post & Battery Box	35.143043	-118.441397
15	Prop Flange Large section	35.142983	-118.441403
16	Flight Bag	35.142951	-118.441323
17	Main wreckage	35.142905	-118.441205
18	PIC	35.142951	-118.441245
19	Left Seat	35.14292	-118.441224
20	Yoke w fractured Left horn	35.142763	-118.441085
21	RH fwd bottom (#1) spark plug	35.142075	-118.441093
22	Alternator rotor assy	35.142471	-118.440785
23	Battery	35.142124	-118.440703
24	RH MLG wheel/tire	35.1419	-118.440039
25	NLG Strut	35.1427	-118.441336
26	NLG Wheel/tire & fork	35.142825	-118.439627

2.0 Selected Item Distances and Bearings

Measurement	Distance (ft)	Bearing (° True)
First impact to main wreckage	252	137°
First impact to right main wheel/tire (farthest item)	755	137°
Main wreckage to NLG wheel/tire	473	093°
Main wreckage to alternator core	198	142°
Main wreckage to battery	320	153°
Main wreckage to RMLG wheel/tire	505	137°
Main wreckage to spark plug	304	174°

3.0 Accident Location



Figure 1 - Accident Location (Takeoff direction was northwest)

F. DEBRIS FIELD PLOTS

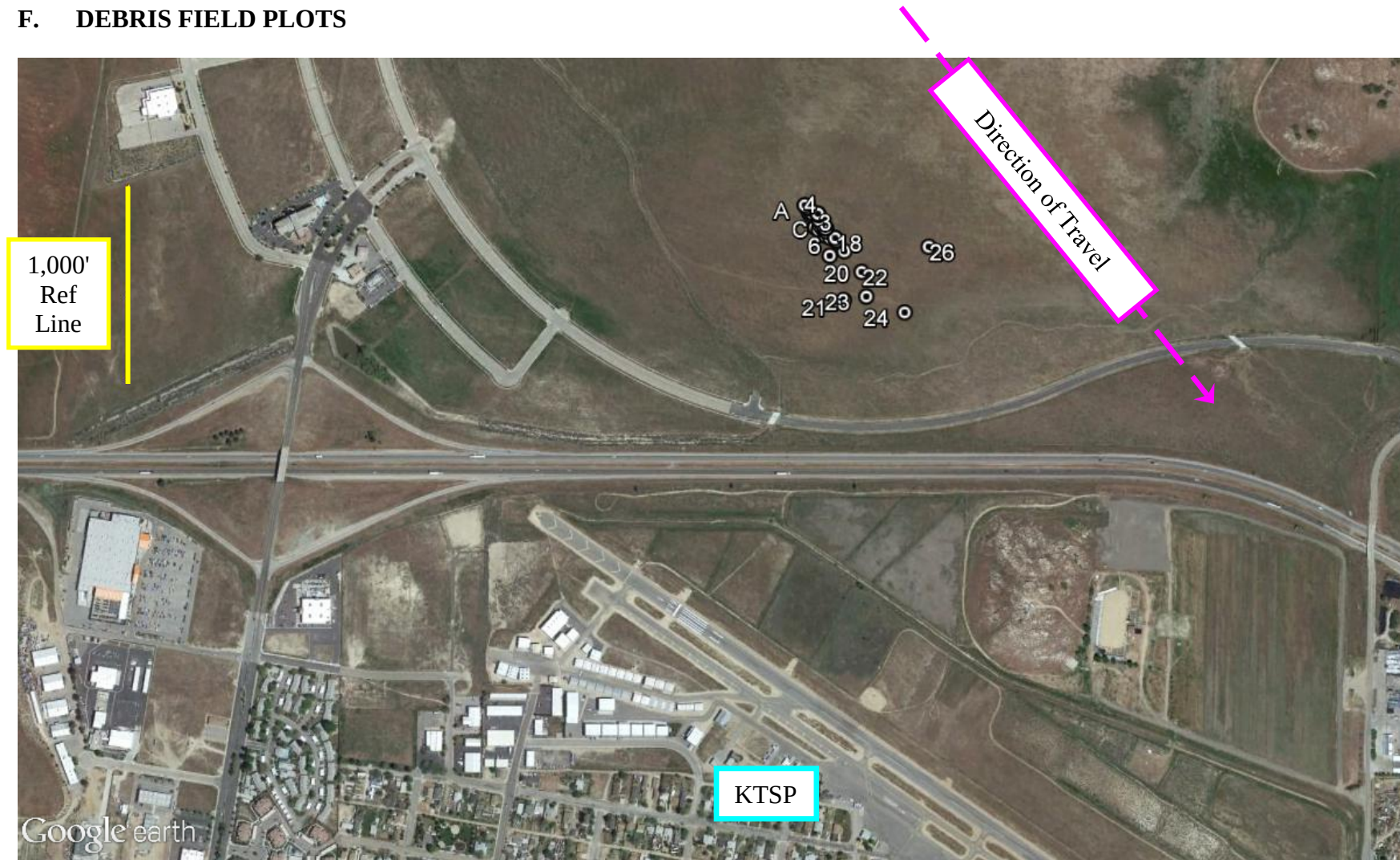


Figure 2 - Debris Field with KTSP

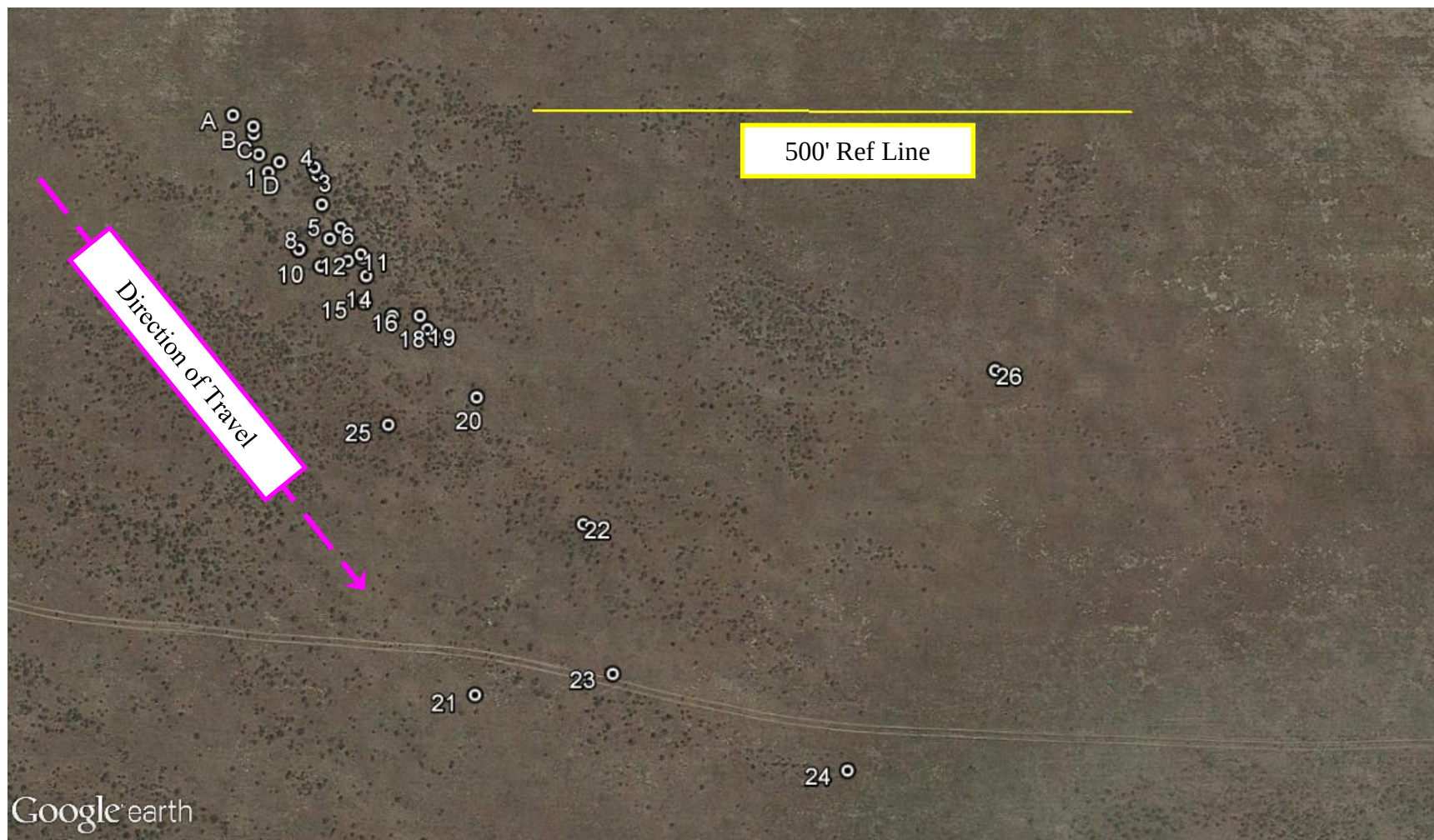


Figure 3 - Debris Field