



# Aviation Investigation Final Report

|                                |                                      |                         |             |
|--------------------------------|--------------------------------------|-------------------------|-------------|
| <b>Location:</b>               | Lake Abert, Oregon                   | <b>Accident Number:</b> | WPR20LA324  |
| <b>Date &amp; Time:</b>        | September 14, 2020, 19:30 Local      | <b>Registration:</b>    | N1220A      |
| <b>Aircraft:</b>               | Pilatus Aircraft PC-12/47E           | <b>Aircraft Damage:</b> | Substantial |
| <b>Defining Event:</b>         | Ground collision                     | <b>Injuries:</b>        | 3 None      |
| <b>Flight Conducted Under:</b> | Part 91: General aviation - Personal |                         |             |

## Analysis

The pilot reported that, during the takeoff roll from a private dirt strip, the left wing was substantially damaged when it impacted a truck parked alongside of the runway. The pilot reported that it was dusk and he “just didn’t see the truck.” The pilot and two passengers were not injured. The pilot reported that there were no mechanical failures or malfunctions with the airplane that would have precluded normal operation.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot’s failure to maintain clearance from an object during the takeoff ground roll due to inadequate monitoring of the environment.

### Findings

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Personnel issues</b>     | Monitoring environment - Pilot |
| <b>Environmental issues</b> | Ground vehicle - Not specified |

## Factual Information

### History of Flight

|                |                                   |
|----------------|-----------------------------------|
| <b>Takeoff</b> | Ground collision (Defining event) |
|----------------|-----------------------------------|

### Pilot Information

|                                  |   |  |                    |
|----------------------------------|---|--|--------------------|
| <b>Certificate:</b>              | Commercial; Private   | <b>Age:</b>                              | 70, Male           |
| <b>Airplane Rating(s):</b>       | Single-engine land; Single-engine sea; Multi-engine land            | <b>Seat Occupied:</b>                    | Left               |
| <b>Other Aircraft Rating(s):</b> | Helicopter  | <b>Restraint Used:</b>                   | 3-point            |
| <b>Instrument Rating(s):</b>     | Airplane  | <b>Second Pilot Present:</b>             | No                 |
| <b>Instructor Rating(s):</b>     | None  | <b>Toxicology Performed:</b>             |                    |
| <b>Medical Certification:</b>    | Class 2 Without waivers/limitations                                 | <b>Last FAA Medical Exam:</b>            | September 15, 2019 |
| <b>Occupational Pilot:</b>       | Yes   | <b>Last Flight Review or Equivalent:</b> |                    |
| <b>Flight Time:</b>              | 1 hours (Total, all aircraft), 1 hours (Total, this make and model) |  |                    |

### Aircraft and Owner/Operator Information

|                                      |                        |                                       |              |
|--------------------------------------|------------------------|---------------------------------------|--------------|
| <b>Aircraft Make:</b>                | Pilatus Aircraft       | <b>Registration:</b>                  | N1220A       |
| <b>Model/Series:</b>                 | PC-12/47E              | <b>Aircraft Category:</b>             | Airplane     |
| <b>Year of Manufacture:</b>          | 2015                   | <b>Amateur Built:</b>                 |              |
| <b>Airworthiness Certificate:</b>    | Normal                 | <b>Serial Number:</b>                 | 1568         |
| <b>Landing Gear Type:</b>            | Retractable - Tricycle | <b>Seats:</b>                         |              |
| <b>Date/Type of Last Inspection:</b> | Unknown                | <b>Certified Max Gross Wt.:</b>       |              |
| <b>Time Since Last Inspection:</b>   |                        | <b>Engines:</b>                       | 1 Turbo prop |
| <b>Airframe Total Time:</b>          | 1170 Hrs               | <b>Engine Manufacturer:</b>           | P&W Canada   |
| <b>ELT:</b>                          | Installed              | <b>Engine Model/Series:</b>           | PT6A-67P     |
| <b>Registered Owner:</b>             | Rivers End Ranch LLC   | <b>Rated Power:</b>                   |              |
| <b>Operator:</b>                     | Rivers End Ranch LLC   | <b>Operating Certificate(s) Held:</b> | None         |

## Meteorological Information and Flight Plan

|   |                                  |   |                   |
|---|----------------------------------|---|-------------------|
| <b>Conditions at Accident Site:</b>     | Visual (VMC)                     | <b>Condition of Light:</b>                  | Dusk              |
| <b>Observation Facility, Elevation:</b> | LKV,4734 ft msl                  | <b>Distance from Accident Site:</b>         | 32 Nautical Miles |
| <b>Observation Time:</b>                | 19:53 Local                      | <b>Direction from Accident Site:</b>        | 193°              |
| <b>Lowest Cloud Condition:</b>          | Clear                            | <b>Visibility</b>                           | 7 miles           |
| <b>Lowest Ceiling:</b>                  | None                             | <b>Visibility (RVR):</b>                    |                   |
| <b>Wind Speed/Gusts:</b>                | 6 knots /                        | <b>Turbulence Type Forecast/Actual:</b>     | None / None       |
| <b>Wind Direction:</b>                  | 110°                             | <b>Turbulence Severity Forecast/Actual:</b> | N/A / N/A         |
| <b>Altimeter Setting:</b>               | 30.15 inches Hg                  | <b>Temperature/Dew Point:</b>               | 17°C / 0°C        |
| <b>Precipitation and Obscuration:</b>   | No Obscuration; No Precipitation |   |                   |
| <b>Departure Point:</b>                 | Lake Abert, OR                   | <b>Type of Flight Plan Filed:</b>           |                   |
| <b>Destination:</b>                     |                                  | <b>Type of Clearance:</b>                   | None              |
| <b>Departure Time:</b>                  |                                  | <b>Type of Airspace:</b>                    | Unknown           |

## Airport Information

|                             |                  |                                  |      |
|-----------------------------|------------------|----------------------------------|------|
| <b>Airport:</b>             | Private n/a      | <b>Runway Surface Type:</b>      | Dirt |
| <b>Airport Elevation:</b>   | 4800 ft msl      | <b>Runway Surface Condition:</b> | Dry  |
| <b>Runway Used:</b>         | 360              | <b>IFR Approach:</b>             | None |
| <b>Runway Length/Width:</b> | 3000 ft / 100 ft | <b>VFR Approach/Landing:</b>     | None |

## Wreckage and Impact Information

|                            |        |                             |                           |
|----------------------------|--------|-----------------------------|---------------------------|
| <b>Crew Injuries:</b>      | 1 None | <b>Aircraft Damage:</b>     | Substantial               |
| <b>Passenger Injuries:</b> | 2 None | <b>Aircraft Fire:</b>       | None                      |
| <b>Ground Injuries:</b>    |        | <b>Aircraft Explosion:</b>  | None                      |
| <b>Total Injuries:</b>     | 3 None | <b>Latitude, Longitude:</b> | 42.661111,-120.22972(est) |

## Administrative Information

|  |   |
|--|---|
| <b>Investigator In Charge (IIC):</b>     | Link, Samantha  |
| <b>Additional Participating Persons:</b> | Jon Bergstrom; Federal Aviation Administration; Hillsboro, OR   |
| <b>Original Publish Date:</b>            | July 15, 2021   |
| <b>Last Revision Date:</b>               |   |
| <b>Investigation Class:</b>              | <a href="#">Class 4</a>   |
| <b>Note:</b>                             | The NTSB did not travel to the scene of this accident.  |
| <b>Investigation Docket:</b>             | <a href="https://data.ntsb.gov/Docket?ProjectID=102061">https://data.ntsb.gov/Docket?ProjectID=102061</a> |

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