



National Transportation Safety Board Aviation Accident Final Report

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|-------------------------|----------------------|-------------------------|------------|
| Location: | HARTSVILLE, SC | Accident Number: | ATL87LA054 |
| Date & Time: | 01/04/1987, 1500 EST | Registration: | N70493 |
| Aircraft: | CESSNA 172M | Aircraft Damage: | Destroyed |
| Defining Event: | | Injuries: | 1 None |

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

THE STUDENT PLT MADE TWO GO-AROUNDS BEFORE STARTING HIS THIRD LANDING ATTEMPT WITH A VARIABLE WIND. AFTER TOUCHDOWN THE ACFT VEERED TO THE RIGHT AND DEPARTED THE RWY. THE PLT APPLIED POWER IN AN ATTEMPT TO TAKE-OFF BUT THE NOSE WHEEL HIT A HOLE AND THE ACFT NOSED OVER.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER
Phase of Operation: LANDING - ROLL

Findings

1. WEATHER CONDITION - CROSSWIND
2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
3. (C) GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Factual Information

Pilot Information

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|----------------------------------|---|--|----------------------------|
| Certificate: | Student | Age: | 44, Male |
| Airplane Rating(s): | None | Seat Occupied: | Left |
| Other Aircraft Rating(s): | None | Restraint Used: | Seatbelt, Shoulder harness |
| Instrument Rating(s): | None | Second Pilot Present: | No |
| Instructor Rating(s): | None | Toxicology Performed: | No |
| Medical Certification: | Class 3 Valid Medical--w/ waivers/lim. | Last FAA Medical Exam: | 09/22/1986 |
| Occupational Pilot: | | Last Flight Review or Equivalent: | |
| Flight Time: | 44 hours (Total, all aircraft), 5 hours (Total, this make and model), 17 hours (Pilot In Command, all aircraft), 26 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft) | | |

Aircraft and Owner/Operator Information

| | | | |
|--------------------------------------|---|---|-----------------|
| Aircraft Make: | CESSNA | Registration: | N70493 |
| Model/Series: | 172M 172M | Aircraft Category: | Airplane |
| Year of Manufacture: | | Amateur Built: | No |
| Airworthiness Certificate: | Normal | Serial Number: | 17267220 |
| Landing Gear Type: | Tricycle | Seats: | 4 |
| Date/Type of Last Inspection: | 01/02/1987, Annual | Certified Max Gross Wt.: | 2300 lbs |
| Time Since Last Inspection: | 4 Hours | Engines: | 1 Reciprocating |
| Airframe Total Time: | 5140 Hours | Engine Manufacturer: | LYCOMING |
| ELT: | Installed, activated, did not aid in locating accident | Engine Model/Series: | O-320-E2D |
| Registered Owner: | MARBELL PROPERTIES, INC. | Rated Power: | 150 hp |
| Operator: | AIRCRAFT SERVICES OF RALEIGH | Operating Certificate(s) Held: | |

Meteorological Information and Flight Plan

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|----------------------------------|-------------------------|---|-------------------|
| Conditions at Accident Site: | Visual Conditions | Condition of Light: | Day |
| Observation Facility, Elevation: | FLO, 147 ft msl | Distance from Accident Site: | 23 Nautical Miles |
| Observation Time: | 1450 EST | Direction from Accident Site: | 130° |
| Lowest Cloud Condition: | Unknown / 0 ft agl | Visibility | 7 Miles |
| Lowest Ceiling: | Overcast / 10000 ft agl | Visibility (RVR): | 0 ft |
| Wind Speed/Gusts: | 10 knots / | Turbulence Type Forecast/Actual: | / |
| Wind Direction: | 30° | Turbulence Severity Forecast/Actual: | / |
| Altimeter Setting: | 30 inches Hg | Temperature/Dew Point: | 7°C / 3°C |
| Precipitation and Obscuration: | | | |
| Departure Point: | FLORENCE, SC (FLO) | Type of Flight Plan Filed: | None |
| Destination: | | Type of Clearance: | None |
| Departure Time: | 1430 EST | Type of Airspace: | Class G |

Airport Information

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|----------------------|----------------------------|---------------------------|----------------------------|
| Airport: | HARTSVILLE MUNICIPAL (HVS) | Runway Surface Type: | Asphalt |
| Airport Elevation: | 379 ft | Runway Surface Condition: | Dry |
| Runway Used: | 20 | IFR Approach: | None |
| Runway Length/Width: | 3300 ft / 75 ft | VFR Approach/Landing: | Full Stop; Traffic Pattern |

Wreckage and Impact Information

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|---------------------|--------|----------------------|-----------|
| Crew Injuries: | 1 None | Aircraft Damage: | Destroyed |
| Passenger Injuries: | N/A | Aircraft Fire: | None |
| Ground Injuries: | N/A | Aircraft Explosion: | None |
| Total Injuries: | 1 None | Latitude, Longitude: | |

Administrative Information

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|-----------------------------------|--|--------------|------------|
| Investigator In Charge (IIC): | CHARLES T FOUTS | Report Date: | 03/10/1988 |
| Additional Participating Persons: | DAVE ANDERSON; COLUMBIA, SC | | |
| Publish Date: | | | |
| Investigation Docket: | NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ . | | |

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).