



Aviation Investigation Final Report

Location:	DOYLESTOWN, Pennsylvania	Accident Number:	NYC93LA072
Date & Time:	April 7, 1993, 18:00 Local	Registration:	N46TM
Aircraft:	CESSNA 140	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Fatal, 1 Serious
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE AIRPLANE WAS OBSERVED TO MAKE A TOUCH AND GO. ON CLIMBOUT AT AN ALTITUDE OF APPROXIMATELY 300 FEET, THE AIRPLANE WAS OBSERVED TO ENTER A DESCENDING RIGHT TURN AND IMPACT THE GROUND ON THE RIGHT WING AND NOSE. POST ACCIDENT INVESTIGATION FOUND THE TACHOMETER STUCK AT APPROXIMATELY 2200 RPM AND CHORD WISE SCRATCHES WERE VISIBLE ON ONE BLADE OF THE PROPELLER. FUEL WAS FOUND IN THE CARBURETOR AND NO DEFECTS WERE FOUND WITH THE ENGINE OR AIRFRAME. THE PIC WHO OCCUPIED THE LEFT SEAT SAID HE DID NOT REMEMBER WHAT HAPPENED, AND THAT THE RIGHT SEAT PILOT WAS OPERATING THE FLIGHT CONTROLS JUST PRIOR TO THE ACCIDENT.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FAILURE OF THE PILOT PASSENGER TO MAINTAIN ADEQUATE AIRSPEED AND THE FAILURE OF THE PILOT IN COMMAND TO ADEQUATELY SUPERVISE THE FLIGHT.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) SUPERVISION - INADEQUATE - PILOT IN COMMAND

2. (C) AIRSPEED - NOT MAINTAINED - PILOT PASSENGER

3. (C) STALL/SPIN - INADVERTENT - PILOT PASSENGER

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

4. TERRAIN CONDITION - OPEN FIELD

Factual Information

Pilot Information

Certificate:	Commercial	Age:	47, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	July 1, 1992
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	8800 hours (Total, all aircraft), 150 hours (Total, this make and model), 8000 hours (Pilot In Command, all aircraft), 75 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N46TM
Model/Series:	140 140	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	9969
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	October 23, 1992 Annual	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:		Engine Model/Series:	C-85
Registered Owner:	P.J. SMITH	Rated Power:	85 Horsepower
Operator:	RICHARD E. FARLEY	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	(N88)	Type of Flight Plan Filed:	None
Destination:	(N88)	Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Airport advisory area;Class G

Airport Information

Airport:	DOYLESTOWN N88	Runway Surface Type:	Asphalt
Airport Elevation:	394 ft msl	Runway Surface Condition:	Dry
Runway Used:	5	IFR Approach:	None
Runway Length/Width:	3004 ft / 60 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 Fatal	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal, 1 Serious	Latitude, Longitude:	40.309692,-75.120384(est)

Administrative Information

Investigator In Charge (IIC):	Hancock, Robert
Additional Participating Persons:	ROD BOUREY; ALLENTOWN , PA FRANK ALOTTA, JR.; ALLENTOWN , PA ANDREW HALL; WICHITA , KS GEORGE HOLLINGSWORTH; MOBIL , AL
Original Publish Date:	December 3, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=37302

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