



# **Aviation Investigation Final Report**

Location: HEALY LAKE, Alaska Accident Number: ANC89LA005

Date & Time: October 2, 1988, 18:40 Local Registration: N3421A

Aircraft: PIPER PA-22 Aircraft Damage: Substantial

**Defining Event:** 2 Serious

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

AFTER WAITING FOR MORE FAVORABLE WIND CONDITIONS, THE STUDENT PILOT AND HIS PASSENGER ATTEMPTED A DEPARTURE FROM A DIRT STRIP SURROUNDED BY TREES. THE NON-RATED PASSENGER STATED THAT 'AFTER BECOMING AIRBORNE AND CLIMBING SLIGHTLY ABOVE THE TREETOPS, IT FELT LIKE I WAS IN AN ELEVATOR AND THE AIRCRAFT BEGAN TO HIT THE TOPS OF THE TREES...'. WITNESSES INDICATED THAT THE WINDS WERE OUT OF THE SOUTH-SOUTHEAST AT 35 KNOTS, GUSTING TO 40 KNOTS.

### **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 - IN FLIGHT Phase of Operation: TAKEOFF - INITIAL CLIMB

#### **Findings**

- 1. (F) WEATHER CONDITION CROSSWIND
- 2. (F) WEATHER CONDITION HIGH WIND
- 3. (C) PREFLIGHT PLANNING/PREPARATION IMPROPER PILOT IN COMMAND
- 4. (C) COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. (F) LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 6. (C) STALL/MUSH INADVERTENT PILOT IN COMMAND

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Occurrence #2: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: TAKEOFF - INITIAL CLIMB

Page 2 of 5 ANC89LA005

## **Factual Information**

#### **Pilot Information**

Certificate:	Student	Age:	40,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	April 17, 1988
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	50 hours (Total, all aircraft), 50 hours (Total, this make and model), 50 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N3421A
Model/Series:	PA-22 PA-22	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-1608
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-320
Registered Owner:	DOYLE L. GABRIEL	Rated Power:	135 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 ANC89LA005

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:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	20 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	35 knots / 40 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	160°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	2°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class G

## **Airport Information**

Airport:	HEALY LAKE	Runway Surface Type:	Dirt
Airport Elevation:	1300 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	9	IFR Approach:	
Runway Length/Width:	2800 ft / 40 ft	VFR Approach/Landing:	None

## **Wreckage and Impact Information**

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 Serious	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Serious	Latitude, Longitude:	

Page 4 of 5 ANC89LA005

#### **Administrative Information**

Investigator In Charge (IIC):	Michelangelo, James
Additional Participating Persons:	
Original Publish Date:	October 2, 1989
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=5136

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 5 of 5 ANC89LA005