



# **Aviation Investigation Final Report**

Location: BOWMAN, North Dakota Accident Number: CHI93FA053

Date & Time: December 16, 1992, 17:45 Local Registration: N7243Y

Aircraft: PIPER PA-30 Aircraft Damage: Destroyed

**Defining Event:** 1 Fatal

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

THE NON INSTRUMENT RATED PRIVATE PILOT/MECHANIC DEPARTED SECOND IN A FLIGHT OF TWO COMPANY AIRCRAFT, TRAVELLING TO AN FAA MECHANICS SEMINAR. THE COMPANY CHIEF PILOT, IN THE LEAD AIRPLANE, REPORTED 'SHORTLY AFTER TAKEOFF, I FLEW INTO SOME LIGHT SNOW...I STARTED TO LOSE GROUND LIGHTS, SO I TOLD JARED WE SHOULD TURN AROUND...HE SAID HE WAS TURNING AROUND, TOO.' THERE WERE NO FURTHER RADIO TRANSMISSIONS FROM THE ACCIDENT AIRPLANE. THE CHIEF PILOT STATED IT WAS A DARK NIGHT, AND DETERIORATING WEATHER CONDITIONS INHIBITED AIRBORNE SEARCHES. THE ACCIDENT AIRPLANE WAS DISCOVERED THE NEXT MORNING. POSTACCIDENT EXAMINATION REVEALED NO EVIDENCE OF PREIMPACT MALFUNCTION.

#### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE NON INSTRUMENT RATED PRIVATE PILOT'S FAILURE TO MAINTAIN ADEQUATE TERRAIN CLEARANCE AFTER INADVERTENT VFR FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS.

#### **Findings**

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation: CRUISE - NORMAL

**Findings** 

- 1. LIGHT CONDITION DARK NIGHT
- 2. WEATHER CONDITION CLOUDS
- 3. WEATHER CONDITION SNOW
- 4. (F) VFR FLIGHT INTO IMC INADVERTENT PILOT IN COMMAND
- 5. (F) LACK OF TOTAL INSTRUMENT TIME PILOT IN COMMAND
- 6. (F) INADEQUATE SURVEILLANCE OF OPERATION COMPANY/OPERATOR MGMT

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: CRUISE

**Findings** 

7. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

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## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	25,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	July 8, 1992
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	192 hours (Total, all aircraft), 28 hours (Total, this make and model), 140 hours (Pilot In Command, all aircraft), 39 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

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### **Aircraft and Owner/Operator Information**

Aircraft Make:	PIPER	Registration:	N7243Y
Model/Series:	PA-30 PA-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal; Restricted (Special)	Serial Number:	30-268
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	May 22, 1992 100 hour	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:	70 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	4592 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-320-B1A
Registered Owner:	WEATHER MODIFICATION, INC.	Rated Power:	160 Horsepower
Operator:	WEATHER MODIFICATION, INC.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument (IMC)	Condition of Light:	Night/dark
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	1 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:	(D04)	Type of Flight Plan Filed:	None
Destination:	BISMARCK , ND (BIS )	Type of Clearance:	None
Departure Time:	17:35 Local	Type of Airspace:	Class G

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### **Airport Information**

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	46.179405,-103.399078(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Reeves, Jodi	
Additional Participating Persons:	CARL WELKE; FARGO , ND	
Original Publish Date:	October 25, 1993	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=15582	

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.

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