

# **Aviation Investigation Final Report**

Location:	THIEF RIVER FLS, I	Vinnesota	Accident Number:	CHI91FA108
Date & Time:	March 17, 1991, 19	9:49 Local	Registration:	N8290Y
Aircraft:	PIPER	PA-30	Aircraft Damage:	Destroyed
Defining Event:			Injuries:	4 Fatal
Flight Conducted Under:	Part 91: General av	viation		

## **Analysis**

DURING ARRIVAL, THE PLT WAS ADZD THAT THE 1745 CST WX WAS 500' BKN, 1000' OVC, VIS 3-1/2 MI WITH FOG. HE MADE AN ILS RWY 31 APCH, BUT AT 1928 CST, HE RPRTD A MISSED APCH. HE STATED THAT HE HAD SEEN 'THE LIGHTS' & REQUESTED ANOTHER APCH. THE ACFT WAS VECTORED FOR A 2ND ILS. WHEN IT WAS ABOUT 5 MI FROM THE OUTER MARKER (FAF), THE PLT WAS CLRD FOR THE APCH & TO CHANGE TO AN ADZY FREQ. HOWEVER, ABOUT 3 MI SE OF THE FAF, THE ACFT FLEW INTO LEVEL TERRAIN, WHILE STILL ON A WESTERLY HDG. MIN DSCNT ALT (MDA) FOR THIS SEGMENT OF THE APCH WAS 2700' MSL; THE ARPT ELEV WAS 1116'). NO PREIMPACT PART FAILURE OR MALFUNCTION OF THE AIRFRAME OR ENG WAS FOUND. THE 1945 CST WX AT THE ARPT HAD DETERIORATED TO 200' OVC & 1/4 MI VIS WITH FOG.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: IMPROPER IFR PROCEDURE OF THE PILOT, WHILE INTERCEPTING THE ILS LOCALIZER, BY NOT MAINTIANING THE MINIMUM DESCENT ALTITUDE (MDA) FOR THAT SEGMENT OF THE APPROACH.

**Findings** 

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: APPROACH - IAF TO FAF/OUTER MARKER (IFR) Findings 1. (C) IFR PROCEDURE - NOT FOLLOWED - PILOT IN COMMAND 2. (C) MINIMUM DESCENT ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND

## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	61,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:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	March 12, 1991
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	2400 hours (Total, all aircraft)		

#### Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N8290Y
Model/Series:	PA-30 PA-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	30-1428
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:	0 Hrs	Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	10-320
Registered Owner:		Rated Power:	160 Horsepower
Operator:	JUNE I. STEIGER	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:	TVF	Distance from Accident Site:	
Observation Time:	19:45 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	
Lowest Ceiling:	Broken / 200 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	1°C / -2°C
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:	BOZEMAN , MT (BZN )	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	14:15 Local	Type of Airspace:	

## **Airport Information**

Airport:	THIEF RIVER REGIONAL TVF	Runway Surface Type:	
Airport Elevation:	1116 ft msl	Runway Surface Condition:	
Runway Used:	31	IFR Approach:	ILS
Runway Length/Width:	6503 ft / 150 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Fatal	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 Fatal	Latitude, Longitude:	48.109626,-96.1707(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Bruce, William
Additional Participating Persons:	
Original Publish Date:	January 27, 1993
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=14896

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