



# **Aviation Investigation Final Report**

Location: ANCHORAGE, Alaska Accident Number: ANC86FA035

Date & Time: March 16, 1986, 16:10 Local Registration: N70010

Aircraft: CESSNA A185E Aircraft Damage: Substantial

**Defining Event:** 1 Serious, 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

ACFT HIT TREES AND POWER LINES AND CRASHED ON CITY RESIDENTIAL STREET FOLLOWING ENGINE FAILURE DURING TAKEOFF CLIMB. ENGINE DRIVEN FUEL PUMP FAILED DUE TO LONG TERM EXPOSURE TO WATER IN FUEL. OVER TWO QUARTS WATER WAS COLLECTED FROM AIRCRAFT TANKS AFTER CRASH. PILOT MISJUDGED ALTITUDE AND DISTANCE FROM SUITABLE LANDING AREA.

### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation: TAKEOFF - INITIAL CLIMB

#### **Findings**

- 1. (F) FUEL SYSTEM, PUMP FAILURE, TOTAL
- 2. (F) MAINTENANCE, SERVICE OF AIRCRAFT/EQUIPMENT IMPROPER PILOT IN COMMAND
- 3. (F) FLUID, FUEL WATER
- 4. (F) MAINTENANCE, SERVICE OF AIRCRAFT/EQUIPMENT IMPROPER OTHER MAINTENANCE PERSONNEL
- 5. (F) AIRCRAFT PREFLIGHT IMPROPER PILOT IN COMMAND
- 6. (F) JUDGMENT POOR PILOT IN COMMAND

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - EMERGENCY

#### **Findings**

- 7. (F) TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 8. (C) ALTITUDE MISJUDGED PILOT IN COMMAND
- 9. (C) PROPER GLIDEPATH NOT UNDERSTOOD PILOT IN COMMAND

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## **Factual Information**

### **Pilot Information**

Certificate:	Private	Age:	43,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	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 Medicalw/ waivers/lim	Last FAA Medical Exam:	May 22, 1985
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1532 hours (Total, all aircraft), 500 hours (Total, this make and model), 1478 hours (Pilot In Command, all aircraft), 4 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

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

Aircraft Make:	CESSNA	Registration:	N70010
Model/Series:	A185E A185E	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18501890
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	April 10, 1985 Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:	120 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2371 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:		Engine Model/Series:	IO-520-F-D
Registered Owner:	FRED E. JOHNSON	Rated Power:	300 Horsepower
Operator:		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:	ANC ,75 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	15:51 Local	Direction from Accident Site:	240°
<b>Lowest Cloud Condition:</b>	Scattered / 5000 ft AGL	Visibility	90 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	4°C / -4°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	ANCHORAGE , AK	Type of Flight Plan Filed:	None
Destination:	ANCHORAGE , AK (LHD )	Type of Clearance:	VFR
Departure Time:	16:05 Local	Type of Airspace:	Class D;Class E

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## **Airport Information**

Airport:	LAKE HOOD LHD	Runway Surface Type:	Ice;Snow
Airport Elevation:	144 ft msl	<b>Runway Surface Condition:</b>	Ice;Rough;Snow
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

### Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 Minor	Latitude, Longitude:	61.159374,-149.989089(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Daw, Roy Additional Participating ALFRED E FLEENER; ANCHORAGE JOHN R HALLINAN; ANCHORAGE , AK Persons: GERALD PATTERSON; ANCHORAGE , AK **Original Publish Date:** Last Revision Date: **Investigation Class:** Class Note: **Investigation Docket:** https://data.ntsb.gov/Docket?ProjectID=4588

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