



# **Aviation Investigation Final Report**

Location: CHUGIAK, Alaska Accident Number: ANC84FA189

Date & Time: September 22, 1984, 08:30 Local Registration: N84490

Aircraft: CESSNA 188 Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 135: Air taxi & commuter - Non-scheduled

### **Analysis**

THE PLT STATED THE ACFT WAS COVERED WITH ICE BUT HE REMOVED THE MAJORITY OF IT BEFORE TAKING OFF. THE ACFT CONTAINED A 200 GAL LOAD OF FUEL IN THE HOPPER. THE PLT STATED THE ACFT ACCELERATED SLOWER THAN NORMAL AND THE TAKEOFF GROUND RUN WAS LONG. HE STATED THAT ONCE AIRBORNE THE ACFT WOULD NOT CLIMB. THE ACFT CONTACTED SEVERAL SMALL TREES THEN CRASHED IN A CLEARING IN A WOODED AREA. A THIN LAYER OF ICE WAS FOUND ON THE LEADING EDGES OF BOTH WINGS AND ON THE HORIZONTAL STABILIZER AFTER THE ACCIDENT.

### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: TAKEOFF - INITIAL CLIMB

#### **Findings**

- 1. (C) AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND
- 2. (C) ICE/FROST REMOVAL FROM AIRCRAFT INADEQUATE PILOT IN COMMAND
- 3. CLIMB NOT POSSIBLE PILOT IN COMMAND
- 4. (F) OBJECT TREE(S)

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: DESCENT - UNCONTROLLED

Findings
5. TERRAIN CONDITION - GROUND

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## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial	Age:	47,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	April 27, 1984
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	2500 hours (Total, all aircraft), 600 hours (Total, this make and model), 2500 hours (Pilot In Command, all aircraft), 300 hours (Last 90 days, all aircraft), 150 hours (Last 30 days, all aircraft)		

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

Aircraft Make:	CESSNA	Registration:	N84490
Model/Series:	188 188	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	A188131986T
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	July 15, 1984 100 hour	Certified Max Gross Wt.:	4000 lbs
Time Since Last Inspection:	18 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1340 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-520
Registered Owner:	G AND G CORP	Rated Power:	300 Horsepower
Operator:		Operating Certificate(s) Held:	On-demand air taxi (135)
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:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	50 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	60°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	16°C / -2°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:	SKWENTNA , AK (SKW )	Type of Clearance:	None
Departure Time:	08:30 Local	Type of Airspace:	Class G

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### **Airport Information**

Airport:	BIRCHWOOD Z15	Runway Surface Type:	Asphalt
Airport Elevation:	96 ft msl	Runway Surface Condition:	Dry
Runway Used:	10	IFR Approach:	None
Runway Length/Width:	4000 ft / 100 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	61.410686,-149.170013(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Michelangelo, James	
Additional Participating Persons:	DICK POWERS; ANCHORAGE , AK	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=4232	

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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