



Aviation Investigation Final Report

Location: Beluga, Alaska Accident Number: ANC11CA106

Date & Time: September 23, 2011, 10:30 Local Registration: N78564

Aircraft: Piper PA-12 Aircraft Damage: Substantial

Defining Event: Collision during takeoff/land **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot elected to take off uphill from a remote site due to a light wind coming down the slope. He said that during the takeoff roll, the airplane hit a bump and became airborne prematurely. The airplane was unable to outclimb the rising terrain and vegetation. After the main landing gear encountered high vegetation, the airplane slowed, impacted terrain, and nosed over, sustaining substantial damage to the wings. There were no mechanical problems with the airplane prior to the accident.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's decision to take off uphill into rising terrain.

Findings

 Personnel issues
 Decision making/judgment - Pilot

 Environmental issues
 Rough terrain - Contributed to outcome

 Aircraft
 Takeoff distance - Capability exceeded

Factual Information

History of Flight

Takeoff	Collision during takeoff/land (Defining event)
Takeoff	Nose over/nose down

Pilot Information

Certificate:	Private	Age:	37,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
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 With waivers/limitations	Last FAA Medical Exam:	March 10, 2008
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 30, 2010
Flight Time:	632 hours (Total, all aircraft), 553 hours (Total, this make and model), 328 hours (Pilot In Command, all aircraft), 60 hours (Last 90 days, all aircraft), 43 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N78564
Model/Series:	PA-12	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	12-3939
Landing Gear Type:	Tailwheel	Seats:	3
Date/Type of Last Inspection:	October 6, 2010 Annual	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3797 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	0-320 SERIES
Registered Owner:	KNUTSON TAD T	Rated Power:	160 Horsepower
Operator:	KNUTSON TAD T	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Condition of Light: Day
Distance from Accident Site:
Direction from Accident Site:
Visibility 50 miles
Visibility (RVR):
Turbulence Type / Forecast/Actual:
Turbulence Severity / Forecast/Actual:
Temperature/Dew Point: 7°C
Type of Flight Plan Filed: None
Type of Clearance: None
Type of Airspace:
C \ \ \ \ T F T

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	55.919685,-159.490005(est)

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Administrative Information

Investigator In Charge (IIC):	Lewis, Lawrence
Additional Participating Persons:	Steven W Wolletz; FAA FSDO-03; Anchorage, AK
Original Publish Date:	December 27, 2011
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=81882

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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