

National Transportation Safety Board Aviation Accident Final Report

Location: Ferris, TX Accident Number: GAA18CA149

Date & Time: 03/01/2018, 1100 UTC Registration: N77MM

Aircraft: BEECH B Aircraft Damage: Substantial

Defining Event: Fuel exhaustion **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General Aviation - Ferry

Analysis

The pilot in the multi-engine, retractable landing gear airplane reported that, during an instrument flight rules cross-country flight, about 5,000 ft above mean sea level, the left engine surged several times and he performed an emergency engine shutdown. Shortly afterward, the right engine lost power.

During the emergency descent, the airplane struck treetops, and landed hard in a field with the landing gear retracted.

The airplane sustained substantial damage to both wings, the engine mounts, and the lower fuselage.

The pilot reported that he had requested 200 gallons of fuel from his home airport fixed base operator, but they did not fuel the airplane. The pilot did not check the fuel quantity during his preflight inspection.

According to the Federal Aviation Administration Airplane Flying Handbook, Chapter 2, page 2-7, pilots must always positively confirm the fuel quantity by visually inspecting the fuel level in each tank.

The pilot reported that there were no mechanical malfunctions or failures with the airplane that would have precluded normal operation.

Probable Cause and Findings

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

The pilot's improper preflight inspection of the fuel level, which resulted in a loss of engine power due to fuel exhaustion. Contributing to the accident was the pilot's failure to lower the landing gear before the emergency landing.

Findings

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Aircraft	Fuel - Not inspected (Cause)
	Fuel - Fluid level (Cause)
	Main landing gear - Not used/operated (Factor)
Personnel issues	Preflight inspection - Pilot (Cause)
Environmental issues	Tree(s) - Contributed to outcome

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Factual Information

History of Flight

Enroute	Fuel exhaustion (Defining event)
Emergency descent	Collision with terr/obj (non-CFIT)
Landing	Hard landing

Pilot Information

Certificate:	Private	Age:	79, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Waiver Time Limited Special	Last FAA Medical Exam:	12/16/2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	07/27/2017
Flight Time:	(Estimated) 6400 hours (Total, all aircraft), 2200 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N77MM
Model/Series:	B 60	Aircraft Category:	Airplane
Year of Manufacture:	1982	Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	P-587
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	12/01/2017, Continuous Airworthiness	Certified Max Gross Wt.:	6775 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	2210 Hours at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	TIO-541
Registered Owner:	MIKE & MAYO PARTNERS LP	Rated Power:	380 hp
Operator:	MIKE & MAYO PARTNERS LP	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KCRS, 448 ft msl	Distance from Accident Site:	16 Nautical Miles
Observation Time:	1653 UTC	Direction from Accident Site:	185°
Lowest Cloud Condition:		Visibility	6 Miles
Lowest Ceiling:	Overcast / 1800 ft agl	Visibility (RVR):	
Wind Speed/Gusts:	13 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.11 inches Hg	Temperature/Dew Point:	14°C / 12°C
Precipitation and Obscuration:	Moderate - Mist		
Departure Point:	DALLAS, TX (ADS)	Type of Flight Plan Filed:	IFR
Destination:	MEXIA, TX (LXY)	Type of Clearance:	IFR
Departure Time:	1030 CST	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	32.301389, -96.372222 (est)

Administrative Information

Investigator In Charge (IIC):	Michael A Hicks	Adopted Date:	08/27/2018
Additional Participating Persons:	Chuck Kuykendall; FAA; Irving, TX		
Publish Date:	08/27/2018		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.ntsb.gov/pubdms/search/dockl	_ist.cfm?mKey=968	<u>329</u>

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