



# Aviation Investigation Final Report

<b>Location:</b>	GRAIN VALLEY, Missouri	<b>Accident Number:</b>	MKC87LA053
<b>Date &amp; Time:</b>	March 1, 1987, 10:15 Local	<b>Registration:</b>	N6001M
<b>Aircraft:</b>	BEECH C23	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

THE PLT REPORTED THAT THE PREFLIGHT ENG RUN-UP WAS SATISFACTORY. SHORTLY AFTER TAKEOFF, THE ENG FAULTERED BRIEFLY AND THE PLT ATTEMPTED A LANDING BACK ON THE RWY. UPON ESTABLISHING A POINT TO LAND, THE ENG RESPONDED AND THE ACFT OVERSHOT THE INTENDED LANDING AREA. THE ENG FAULTERED ONCE AGAIN AND THE PLT WAS ABLE TO MAKE A FORCED LANDING IN AN OPEN FIELD JUST OFF THE DEPARTURE END OF THE RWY. INSPECTION OF THE ENG AFTER SEVERAL ATTEMPTS TO DUPLICATE THE ENG MALFUNCTION FAILED TO PROVIDE EVIDENCE THAT WOULD CONCLUSIVELY DETERMINE WHAT CAUSED THE FAILURE.

## 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  
Phase of Operation: TAKEOFF - INITIAL CLIMB

#### Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Findings

2. (C) ABORTED TAKEOFF - IMPROPER - PILOT IN COMMAND
3. (C) THROTTLE/POWER CONTROL - IMPROPER USE OF - PILOT IN COMMAND

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

4. TERRAIN CONDITION - GROUND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	22, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	August 1, 1985
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	231 hours (Total, all aircraft), 1 hours (Total, this make and model), 170 hours (Pilot In Command, all aircraft), 43 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	BEECH	<b>Registration:</b>	N6001M
<b>Model/Series:</b>	C23 C23	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	M-2111
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	May 31, 1986 Annual	<b>Certified Max Gross Wt.:</b>	2450 lbs
<b>Time Since Last Inspection:</b>	30 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2088 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-360-A4K
<b>Registered Owner:</b>	HAMILTON AVIATION	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	HAMILTON AVIATION	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Unknown / 3000 ft AGL	<b>Visibility</b>	3 miles
<b>Lowest Ceiling:</b>	Overcast / 3000 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	10 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	270°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	GRAIN VALLEY , MO	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	10:15 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>		<b>Runway Surface Condition:</b>	Rough;Soft;Wet
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>		<b>VFR Approach/Landing:</b>	Forced landing

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	39.000724,-94.199714(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Thorpe, Clint
<b>Additional Participating Persons:</b>	ROBERT STERNECKER; KANSAS CITY , MI
<b>Original Publish Date:</b>	March 10, 1988
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=34343">https://data.nts.gov/Docket?ProjectID=34343</a>

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