



National Transportation Safety Board Aviation Accident Final Report

Location:	CALHAN, CO	Accident Number:	DEN82DA124
Date & Time:	07/01/1982, 1200 MDT	Registration:	N1370B
Aircraft:	LUSCOMBE 8F	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

THE PILOT TOOK OFF FROM AN AIRPORT WITH A DENSITY ALTITUDE OF ABOUT 9500 FT. AFTER LIFT-OFF, THE AIRCRAFT REACHED AN ALTITUDE OF ABOUT 100 FT AGL AND THEN STOPPED CLIMBING. THE PILOT INITIATED EMERGENCY PROCEDURES WHICH INCLUDED LEANING THE MIXTURE AND APPLYING CARBURETOR HEAT MOMENTARILY, BUT THESE DID NOT HELP. WHEN IT BECAME OBVIOUS THAT THE PLANE WAS GOING TO SETTLE INTO RISING TERRAIN, A SLIGHT TURN WAS MADE TO PICK THE MOST FAVORABLE PLACE TO TOUCH DOWN. WHEN THE AIRCRAFT TOUCHED DOWN, THE MAIN GEAR WAS DAMAGED AND THE PLANE WENT THROUGH A FENCE AND NOSED OVER. AN INVESTIGATION REVEALED THAT THE PLANE WAS LOADED ALMOST TO ITS MAXIMUM GROSS WEIGHT LIMIT. AN INSPECTION AND RUN-UP OF THE ENGINE REVEALED NO PREIMPACT MALFUNCTION OR FAILURE.

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 TERRAIN/WATER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) WEATHER CONDITION - HIGH DENSITY ALTITUDE
2. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND
3. (F) TERRAIN CONDITION - RISING
4. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND
5. STALL/MUSH - INADVERTENT - PILOT IN COMMAND

Occurrence #2: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

6. (F) OBJECT - FENCE

Occurrence #3: NOSE OVER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Factual Information

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	24, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	09/30/1981
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1939 hours (Total, all aircraft), 98 hours (Total, this make and model), 1779 hours (Pilot In Command, all aircraft), 33 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	LUSCOMBE	Registration:	N1370B
Model/Series:	8F 8F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	5997
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1400 lbs
Time Since Last Inspection:	45 Hours	Engines:	1 Reciprocating
Airframe Total Time:	3081 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	C-90
Registered Owner:	RICHARD DEMARS	Rated Power:	90 hp
Operator:	GEORGE A. CATALANO	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Scattered / 11000 ft agl	Visibility	20 Miles
Lowest Ceiling:	Unknown / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	140°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	83° C / 0° C
Precipitation and Obscuration:			
Departure Point:	CALHAN, CO (5V4)	Type of Flight Plan Filed:	None
Destination:	FORT COLLINS, CO (3V5)	Type of Clearance:	None
Departure Time:	1200	Type of Airspace:	

Airport Information

Airport:	CALHAN (5V4)	Runway Surface Type:	Gravel
Airport Elevation:	0 ft	Runway Surface Condition:	Dry
Runway Used:	35	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:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):		Report Date:	07/01/1983
Additional Participating Persons:			
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).