

National Transportation Safety Board Aviation Accident Final Report

Location:	MILES CITY, MT	Accident Number:	DEN84FA121	
Date & Time:	03/31/1984, 0203 MST	Registration:	N743W	
Aircraft:	AERO COMMANDER 500-B	Aircraft Damage:	Destroyed	
Defining Event:	Injuries: 1 Serious			
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled			

Analysis

THE PLT SAID THAT WHEN HE CALLED ON THE RADIO PRIOR TO THE APPROACH FOR AN ALTIMETER SETTING THE REPLY WAS '30.11 OR 30.12, SOMETHING LIKE THAT.' THE ACFT ALTIMETER WAS FOUND AFTER THE ACCIDENT SET AT 30.22 INCHES OF MERCURY. THE VISIBILITY WAS DESCRIBED AS 1 AND 1/2 MILES IN SNOW SHOWERS. HE CONTINUED THE APPROACH 'BECAUSE MINIMUMS ARE ONE MILE.' HE DESCENDED OUTBOUND TO 4500 FT. MINIMUM PROCEDURE TURN ALT IS 4700 FT MSL. THE PLT THEN DESCENDED TO 3700 FT MSL AS HEAPPROACHED THE VOR. POWER WAS REDUCED TO 17-18 INCHES OF MANIFOLD PRESSURE AND AIRSPEED REDUCED TO 120 KTS. AS THE VOR WAS CROSSED HE GLANCED AT THE ALTIMETER AND 'THE HANDS WERE IN THE TWO O'CLOCK POSITION.' LANDING GEAR WAS EXTENDED AND APPROACH FLAPS SET. THE PLT SAID ALL SEEMED NORMAL. HE LOOKED OUT THE WINDOW AND SAW 'WISPY CLOUDS GOING BY RAPIDLY. THEN THERE WERE THE SOUNDS OF IMPACT.' THE NEXT THING REMEMBERED WAS THE SOUND OF DRIPPING GASOLINE. THE PLT SAID HE CRAWLED OUT OF THE COCKPIT WINDOW AND WANDERED 'FOR A COUPLE HOURS TRYING TO CHASE DOWN THE SEARCH LIGHTS.'

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: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Findings

1. (F) TERRAIN CONDITION - MOUNTAINOUS/HILLY

- 2. (C) ALTIMETER SETTING IMPROPER PILOT IN COMMAND
- 3. (F) WEATHER CONDITION LOW CEILING
- 4. (C) IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 5. (F) WEATHER CONDITION OBSCURATION
- 6. (C) PROPER ALTITUDE BELOW PILOT IN COMMAND
- 7. (F) LIGHT CONDITION DARK NIGHT
- 8. (C) MINIMUM DESCENT ALTITUDE NOT MAINTAINED PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial	Age:	34, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Single-engine; Helicopter; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalw/ waivers/lim.	Last FAA Medical Exam:	06/07/1983
Occupational Pilot:	Last Flight Review or Equivalent:		
Flight Time:	2750 hours (Total, all aircraft), 394 hours (Total, this make and model), 2131 hours (Pilot In Command, all aircraft), 199 hours (Last 90 days, all aircraft), 66 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	AERO COMMANDER	Registration:	N743W
Model/Series:	500-В 500-В	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	500B117389
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	03/23/1984, AAIP	Certified Max Gross Wt.:	6750 lbs
Time Since Last Inspection:	12 Hours	Engines:	2 Reciprocating
Airframe Total Time:	13453 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-540-B1A5
Registered Owner:	COMBS AIRWAYS, INC.	Rated Power:	290 hp
Operator:	COMBS AIRWAYS, INC.	Operating Certificate(s) Held:	Air Cargo
Operator Does Business As:		Operator Designator Code:	СМВА

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MLS, 2628 ft msl	Distance from Accident Site:	2 Nautical Miles
Observation Time:	0209 MST	Direction from Accident Site:	360°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	Obscured / 1500 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	1
Wind Direction:	100°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	0°C/-3°C
Precipitation and Obscuration:			
Departure Point:	BILLINGS, MT (BIL)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	0107 MST	Type of Airspace:	Airport Advisory Area; Class E

Airport Information

Airport:	FRANK WILEY (MLS)	Runway Surface Type:	Asphalt
Airport Elevation:	2628 ft	Runway Surface Condition:	Snowwet
Runway Used:	12	IFR Approach:	VOR
Runway Length/Width:	5602 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	ARNOLD	W SCOTT	Report Date:
Additional Participating Persons:	LEE ASK	ELSON /NM-FSDO-63; BILLINGS, M	г
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 <u>publing@ntsb.gov</u> , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/.		

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