



# **Aviation Investigation Final Report**

Location: BINGHAM, New Mexico Accident Number: DEN90LA169

Date & Time: August 11, 1990, 08:42 Local Registration: N5470P

Aircraft: PIPER PA-24-250 Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

#### **Analysis**

THE PRIVATE PILOT REPORTED THE ENGINE QUIT AT CRUISE WHILE ON A CROSS COUNTRY FLIGHT. HE MADE AN EMERGENCY LANDING IN A FIELD COVERED WITH MADRONA CEDAR BRUSH. THE WINGS STRUCK THE BRUSH, TORE HALF THE LEFT WING OFF, BENT THE RIGHT WING BACK AND BENT THE FUSELAGE BEHIND THE CABIN. THE PILOT SAID HE FLEW 3 HOURS AND 15 MINUTES, AND SHOULD HAVE HAD FUEL LEFT. THE INVESTIGATION REVEALED NO FUEL IN THE AIRCRAFT'S TANKS, AND NO FUEL SPILL. THE INVESTIGATION COULD NOT VERIFY THE TAKEOFF TIME, AMOUNT OF FUEL ON BOARD, OR THE EXACT TIME OF THE ACCIDENT.

#### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE FUEL EXHAUSTION INDUCED POWER LOSS. FACTORS WERE THE PILOT'S FAILURE TO REFUEL AND THE UNSUITABLE TERRAIN IN WHICH THE FORCED LANDING WAS PERFORMED.

#### **Findings**

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: CRUISE - NORMAL

Findings

1. (C) FLUID, FUEL - EXHAUSTION

2. (F) REFUELING - NOT PERFORMED - PILOT IN COMMAND

3. FUEL CONSUMPTION CALCULATIONS - INADEQUATE - PILOT IN COMMAND

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - EMERGENCY

**Findings** 

4. TERRAIN CONDITION - HIGH VEGETATION

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## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	36,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	May 10, 1990
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	352 hours (Total, all aircraft), 14 hours (Total, this make and model), 294 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

## **Aircraft and Owner/Operator Information**

Aircraft Make:	PIPER	Registration:	N5470P
Model/Series:	PA-24-250 PA-24-250	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	PA-24-527
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2800 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-540-A1A5
Registered Owner:		Rated Power:	250 Horsepower
Operator:	A&E SERVICES INC	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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### **Meteorological Information and Flight Plan**

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	25 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	HENDERSON , NV (L15)	Type of Flight Plan Filed:	None
Destination:	ARTESIA , NM (ATS )	Type of Clearance:	None
Departure Time:	04:17 Local	Type of Airspace:	

## **Airport Information**

Airport:	NONE	Runway Surface Type:	
Airport Elevation:		<b>Runway Surface Condition:</b>	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

## **Wreckage and Impact Information**

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

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#### **Administrative Information**

Investigator In Charge (IIC): Collins, Robert

Additional Participating
Persons:

Original Publish Date: September 28, 1992

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=17978

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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