



# Aviation Investigation Final Report

<b>Location:</b>	PHOENIX, Arizona	<b>Accident Number:</b>	LAX82DA289
<b>Date &amp; Time:</b>	August 5, 1982, 09:45 Local	<b>Registration:</b>	N6349M
<b>Aircraft:</b>	CESSNA 152	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

DURING A DUAL INSTRUCTIONAL FLIGHT, THE INSTRUCTOR PILOT (IP) INITIATED A FORCED LANDING FOR A STUDENT BY PULLING THE MIXTURE CONTROL OUT. THE FORCED LANDING WAS TAKEN TO AN ALTITUDE OF ABOUT 400 FT AGL, THEN THE IP PUSHED THE MIXTURE CONTROL IN AND TOLD THE STUDENT TO CLIMB. AFTER REACHING AN ALTITUDE OF ABOUT 1000 FT, THE IP PULLED THE MIXTURE CONTROL AGAIN, INITIATING ANOTHER FORCED LANDING. AFTER A SHORT TIME, THE IP PUSHED THE MIXTURE CONTROL IN TO RETURN TO NORMAL FLIGHT, BUT THE ENGINE FAILED TO START. THE IP MADE A NUMBER OF ATTEMPTS TO START THE ENGINE, BUT WAS UNSUCCESSFUL. THE AIRCRAFT WAS DAMAGED DURING A FORCED LANDING IN THE DESERT. AN EXAMINATION OF THE ENGINE REVEALED NO PREIMPACT FAILURES. THE ENGINE WAS RUN TO 1800 RPM AND A MAGNETO CHECK SHOWED A DROP OF ABOUT 100 RPM ON EACH MAGNETO.

## 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: APPROACH

Findings

1. (C) JUDGMENT - POOR - PILOT IN COMMAND(CFI)

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Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

2. (F) TERRAIN CONDITION - ROUGH/UNEVEN

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	31, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Unknown
<b>Other Aircraft Rating(s):</b>		<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	September 2, 1981
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	655 hours (Total, all aircraft), 388 hours (Total, this make and model), 387 hours (Pilot In Command, all aircraft), 158 hours (Last 90 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N6349M
<b>Model/Series:</b>	152 152	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>		<b>Serial Number:</b>	15284688
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	1670 lbs
<b>Time Since Last Inspection:</b>	83 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	888 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed	<b>Engine Model/Series:</b>	O-235-L2C
<b>Registered Owner:</b>	DAVID A. MANKOWSKI	<b>Rated Power:</b>	110 Horsepower
<b>Operator:</b>	SCOTTSDALE FLIGHT CENTER	<b>Operating Certificate(s) Held:</b>	
<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>	Clear	<b>Visibility</b>	35 miles
<b>Lowest Ceiling:</b>	Unknown	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	96°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	SCOTTSDALE , AZ (SDL )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	SCOTTSDALE , AZ (SDL )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	08:15 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>	0 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	0 ft / 0 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 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>	2 None	<b>Latitude, Longitude:</b>	

## Administrative Information

**Investigator In Charge (IIC):**

**Additional Participating Persons:**

**Original Publish Date:** August 5, 1983

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=72215>

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