



# Aviation Investigation Final Report

<b>Location:</b>	EDGEWOOD, New Mexico	<b>Accident Number:</b>	FTW93LA271
<b>Date &amp; Time:</b>	September 30, 1993, 08:30 Local	<b>Registration:</b>	N777HB
<b>Aircraft:</b>	CESSNA 310Q	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	3 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

WHILE ON A VFR CROSS COUNTRY FLIGHT, THE LEFT PROPELLER CONTROL RING FAILED AND THE LEFT PROPELLER COULD NOT BE FEATHERED. THE PILOT SHUT DOWN THE ENGINE DUE TO VIBRATION, DECLARED AN EMERGENCY, AND WAS VECTORED TO THE NEAREST AIRPORT. UNABLE TO MAKE IT TO THE RUNWAY, THE PILOT MADE A FORCED LANDING SHORT OF THE RUNWAY ON UNSUITABLE TERRAIN AND THE RIGHT MAIN LANDING GEAR COLLAPSED DURING LANDING ROLL.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A PROPELLER CONTROL UNIT FAILURE, AND LOSS OF THE PILOT'S OPTION TO FEATHER THE PROPELLER. A FACTOR WAS THE LACK OF SUITABLE TERRAIN FOR A FORCED LANDING.

## Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF  
Phase of Operation: CRUISE

### Findings

1. (C) PROPELLER SYSTEM/ACCESSORIES,PROP CONTROL UNIT - FAILURE,TOTAL
2. (C) PROPELLER FEATHERING - NOT POSSIBLE - 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

3. TERRAIN CONDITION - NONE SUITABLE

## Factual Information

On September 30, 1993, at 0830 mountain daylight time, a Cessna 310Q, N777HB, impacted the ground short of the runway during a forced landing at Sandia Airpark, Edgewood, New Mexico. The pilot and his two passengers were not injured and the aircraft sustained substantial damage. Visual meteorological conditions prevailed and a VFR flight plan was on file. The flight departed Clovis, New Mexico, at 0700 with a filed destination of Saint George, Utah.

Examination of the aircraft by FAA personnel provided evidence that the left engine propeller control ring and counter weights came off causing a loss of control of the propeller and eliminating the ability of the pilot to feather the propeller. According to the pilot, he secured that engine due to vibration and was unable to maintain flight on the remaining engine due to excessive drag from the propeller. He said he attempted a forced landing at Animas Airpark, being vectored to that facility by Albuquerque Center. Unable to extend the flight, he landed approximately 150 feet short of the runway on rough terrain and the right main landing gear collapsed during landing roll.

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	45, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical-w/ waivers/lim	<b>Last FAA Medical Exam:</b>	November 25, 1992
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1450 hours (Total, all aircraft), 24 hours (Total, this make and model), 385 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 13 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N777HB
<b>Model/Series:</b>	310Q 310Q	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	310Q-0073
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	August 20, 1993 100 hour	<b>Certified Max Gross Wt.:</b>	5300 lbs
<b>Time Since Last Inspection:</b>	58 Hrs	<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	5295 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-470-VO
<b>Registered Owner:</b>	MCLELLAN AFB AERO CLUB	<b>Rated Power:</b>	260 Horsepower
<b>Operator:</b>		<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>	ABQ ,5352 ft msl	<b>Distance from Accident Site:</b>	100 Nautical Miles
<b>Observation Time:</b>	07:50 Local	<b>Direction from Accident Site:</b>	180°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	60 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	130°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	13°C / -2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	CLOVIS , NM (CVN )	<b>Type of Flight Plan Filed:</b>	VFR
<b>Destination:</b>	SAINT GEORGE , UT (SGU )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	07:00 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	SANDIA AIRPARK, EAST NM51	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	6550 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	27	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5280 ft / 30 ft	<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>	2 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	3 None	<b>Latitude, Longitude:</b>	35.080627,-106.169136(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Wiemeyer, Norman
<b>Additional Participating Persons:</b>	MANUEL C LOPEZ; ALBUQUERQUE , NM
<b>Original Publish Date:</b>	August 1, 1994
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.ntsb.gov/Docket?ProjectID=18840">https://data.ntsb.gov/Docket?ProjectID=18840</a>

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