



# Aviation Investigation Final Report

<b>Location:</b>	Denton, Texas	<b>Accident Number:</b>	CEN24LA016
<b>Date &amp; Time:</b>	October 13, 2023, 09:00 Local	<b>Registration:</b>	N6605J
<b>Aircraft:</b>	Piper PA-28-180	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	N/A
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

The student pilot was landing on runway 18R on a solo flight and the airplane drifted to the left while between 100-200 ft above the runway. The student pilot initiated a go around. During the go around attempt, the main landing gear touched the ground; one wheel touched the runway surface, and the other wheel touched the grass adjacent to the runway. The right wing impacted the ground. The airplane departed the runway and came to rest upright. The airplane sustained substantial damage to the right wing.

The student pilot reported there were no preaccident mechanical malfunctions or failures that would have precluded normal operation. The student pilot further reported that the surface wind had shifted to a tailwind during the flight and that the wind at the time of the accident, as observed at the windsock, was from 330°.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The student pilot's failure to maintain directional control while landing with a tailwind.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Tailwind - Contributed to outcome
<b>Personnel issues</b>	Aircraft control - Student/instructed pilot

## Factual Information

### History of Flight

<b>Landing-landing roll</b>	Other weather encounter
<b>Landing-landing roll</b>	Loss of control on ground (Defining event)
<b>Landing-aborted after touchdown</b>	Dragged wing/rotor/float/other
<b>Landing</b>	Runway excursion

### Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	17,Female
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	
<b>Medical Certification:</b>	Class 1 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	August 7, 2023
<b>Occupational Pilot:</b>	<b>Last Flight Review or Equivalent:</b>		
<b>Flight Time:</b>	47.2 hours (Total, all aircraft), 46.2 hours (Total, this make and model), 3.5 hours (Pilot In Command, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N6605J
<b>Model/Series:</b>	PA-28-180	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1968	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	28-5066
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	July 12, 2023 100 hour	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4084 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-360-ACIA
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KDTO, 642 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	08:59 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	13 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	270°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.79 inches Hg	<b>Temperature/Dew Point:</b>	23°C / 19°C
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Denton, TX	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Denton, TX	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>		<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	Denton Enterprise Airport KDTO	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	643 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	18R	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	7002 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop;Go around;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	N/A	<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>	N/A	<b>Latitude, Longitude:</b>	33.2012,-97.1966

## Administrative Information

**Investigator In Charge (IIC):** Rutt, Brian

**Additional Participating Persons:** Michael Kimball; FAA North Texas FSDO

**Original Publish Date:** January 25, 2024

**Last Revision Date:**

**Investigation Class:** [Class 4](#)

**Note:** The NTSB did not travel to the scene of this accident.

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=193265>

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