



# Aviation Investigation Final Report

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<b>Location:</b>	Reserve, New Mexico	<b>Accident Number:</b>	GAA16CA505
<b>Date &amp; Time:</b>	September 8, 2016, 20:12 Local	<b>Registration:</b>	N563WT
<b>Aircraft:</b>	PIPER AIRCRAFT INC PA46R	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

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## Analysis

The pilot reported that while landing at dusk, he attempted to activate the pilot controlled lighting system, but was not successful. He further reported that there was a significant left crosswind, and that perhaps he did not crab enough. The airplane touched down on the grass to the right of the runway, he applied left rudder, the airplane veered to the left, crossed the runway, and continued off the runway to the left into rough terrain. The nose landing gear collapsed and the airplane came to rest in a nose down position.

The airplane sustained substantial damage to the left wing.

The pilot reported no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

According to the pilot, the weather at the time of the accident was wind 170 degrees true at 11 knots. The airplane landed on runway 24.

## Probable Cause and Findings

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

The pilot's failure to maintain directional control during landing with a crosswind.

## Findings

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<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Aircraft</b>	Crosswind correction - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Environmental issues</b>	Crosswind - Effect on operation
<b>Environmental issues</b>	Dark - Effect on personnel
<b>Environmental issues</b>	Rough terrain - Contributed to outcome

## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Other weather encounter
<b>Landing</b>	Loss of control on ground (Defining event)
<b>Landing-landing roll</b>	Runway excursion
<b>Landing-landing roll</b>	Nose over/nose down

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	53, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<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 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	July 14, 2015
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	July 31, 2015
<b>Flight Time:</b>	(Estimated) 776 hours (Total, all aircraft), 560 hours (Total, this make and model), 674 hours (Pilot In Command, all aircraft), 38 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 8 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	PIPER AIRCRAFT INC	<b>Registration:</b>	N563WT
<b>Model/Series:</b>	PA46R 350T	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2008	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	4692074
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	December 8, 2015 Annual	<b>Certified Max Gross Wt.:</b>	4340 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	987.8 Hrs at time of accident	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	C126 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	TIO-540-AE2A
<b>Registered Owner:</b>	AIRTREK INVESTMENTS LTD	<b>Rated Power:</b>	350 Horsepower
<b>Operator:</b>	AIRTREK INVESTMENTS LTD	<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>	Dusk
<b>Observation Facility, Elevation:</b>	KSJN,5733 ft msl	<b>Distance from Accident Site:</b>	56 Nautical Miles
<b>Observation Time:</b>	02:54 Local	<b>Direction from Accident Site:</b>	332°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>	270°	<b>Turbulence Severity Forecast/Actual:</b>	/ N/A
<b>Altimeter Setting:</b>	30.15 inches Hg	<b>Temperature/Dew Point:</b>	21°C / 2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	SOCORRO, NM (ONM )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Reserve, NM (T16 )	<b>Type of Clearance:</b>	VFR;VFR flight following
<b>Departure Time:</b>	19:30 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	RESERVE T16	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	6360 ft msl	<b>Runway Surface Condition:</b>	Dry;Holes;Vegetation
<b>Runway Used:</b>	24	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	4777 ft / 50 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 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>	1 None	<b>Latitude, Longitude:</b>	33.694168,-108.85083

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Vanover, Jackie
<b>Additional Participating Persons:</b>	Gary Medina; FAA; Albuquerque, NM
<b>Original Publish Date:</b>	February 6, 2017
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=94069">https://data.nts.gov/Docket?ProjectID=94069</a>

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