

# **Aviation Investigation Final Report**

Location: Moriarty, New Mexico Accident Number: CEN18LA218

Date & Time: June 8, 2018, 07:53 Local Registration: N4323N

Aircraft: AEROVODOCHODY L 29 DELFIN Aircraft Damage: Substantial

**Defining Event:** Collision during takeoff/land **Injuries:** 2 Minor

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

The commercial pilot was receiving his second training flight after purchasing the vintage single-engine, turbine-powered airplane. While on a visual approach, the pilot flew below the glidepath with a slow airspeed and allowed a sink rate to develop. Subsequently, the flight instructor assumed control of the airplane and applied full engine power; however, the airplane continued to settle and impacted terrain 1/2 mile short of the runway. The flight instructor stated that he had "let his guard down" during the final approach and had not intervened quickly enough because the airplane descended below the glidepath. The pilot's failure to maintain a proper glidepath and the flight instructor's delayed remedial action allowed the airplane to descend and hit terrain short of the runway.

## **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 a proper glidepath during a visual approach and the flight instructor's delayed remedial action, which resulted in ground impact before the runway.

## **Findings**

Personnel issues Aircraft control - Pilot

Personnel issues Delayed action - Instructor/check pilot

Aircraft Descent/approach/glide path - Not attained/maintained

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#### **Factual Information**

### **History of Flight**

Approach-VFR pattern final

Collision during takeoff/land (Defining event)

On June 8, 2018, about 0753 mountain daylight time, an Aerovodochody L29 Deflin airplane, N4323N, was substantially damaged during a visual approach to Moriarty Airport (0E0), Moriarty, New Mexico. The pilot and flight instructor suffered minor injuries. The airplane was registered to and operated by the pilot under the provisions of 14 *Code of Federal Regulations* Part 91 as an instructional flight. Day visual meteorological conditions prevailed for the local flight, which departed about 0745 without a flight plan.

Following his recent purchase of the vintage, single-engine, turbine powered trainer airplane, the pilot was receiving his second training flight and accomplished a takeoff and traffic pattern for Runway 26. While on final approach, the flight instructor told the pilot to increase engine power after the airplane descended below glide path with a slow airspeed. After the engine did not respond as the flight instructor expected, he assumed control of the airplane and applied full power. The airplane continued to settle and impacted the ground about ½ mile short of the Runway 26 threshold, damaging both wings.

The flight instructor stated that he had "let his guard down" during the final approach and had not intervened quick enough as the airplane descended below the glide path. He was aware of the engine's "slow spool up" characteristic and viewed this issue, as well as the high-density altitude conditions, as contributors to his inability to counteract the airplane's sink rate after applying full power.

The pilot did not recall details of the final approach due to a concussion that he suffered during the accident. Although a previous military navigator, the pilot was not experienced piloting a turbine powered airplane. The flight instructor did not realize the pilot's military flight experience occurred as a navigator.

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## Flight instructor Information

Certificate:	Airline transport; Commercial; Flight engineer; Flight instructor	Age:	65,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	BasicMed Without waivers/limitations	Last FAA Medical Exam:	January 25, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	March 15, 2018
Flight Time:	(Estimated) 25000 hours (Total, all aircraft), 900 hours (Total, this make and model)		

### **Pilot Information**

Certificate:	Private	Age:	75,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None None	Last FAA Medical Exam:	September 14, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	September 9, 2006
Flight Time:	2878 hours (Total, all aircraft), 2 hours (Total, this make and model), 878 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft) hours (Last 24 hours, all aircraft)		

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## Aircraft and Owner/Operator Information

Aircraft Make:	AEROVODOCHODY	Registration:	N4323N
Model/Series:	L 29 DELFIN NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1971	Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	194145
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	August 1, 2017 Condition	Certified Max Gross Wt.:	6000 lbs
Time Since Last Inspection:		Engines:	1 Turbo jet
Airframe Total Time:	739 Hrs at time of accident	Engine Manufacturer:	Motorlet
ELT:	Installed, not activated	Engine Model/Series:	M701-500C
Registered Owner:		Rated Power:	1960 Lbs thrust
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KCQC,7086 ft msl	Distance from Accident Site:	17 Nautical Miles
Observation Time:	07:53 Local	Direction from Accident Site:	85°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.31 inches Hg	Temperature/Dew Point:	19°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Moriarty, NM (0E0)	Type of Flight Plan Filed:	None
Destination:	Moriarty, NM (0E0 )	Type of Clearance:	None
Departure Time:	07:45 Local	Type of Airspace:	Class E

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#### **Airport Information**

Airport:	MORIARTY 0E0	Runway Surface Type:	Asphalt
Airport Elevation:	6204 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	7702 ft / 75 ft	VFR Approach/Landing	Full stop:Traffic pattern

#### **Wreckage and Impact Information**

Crew Injuries:	2 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	34.982223,-105.990837(est)

#### **Administrative Information**

Administrative information		
Investigator In Charge (IIC):	Folkerts, Michael	
Additional Participating Persons:	Ken Hand; Flight Standards District Office; Albququerque, NM	
Original Publish Date:	February 5, 2019	
Note:	The NTSB did not travel to the scene of this accident.	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97440	

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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