



Aviation Investigation Final Report

Location:	New Castle, Pennsylvania	Accident Number:	MIA08CA198
Date & Time:	September 20, 2008, 19:50 Local	Registration:	N2184N
Aircraft:	MOONEY AIRCRAFT CORP. M20S	Aircraft Damage:	Substantial
Defining Event:	Wildlife encounter (non-bird)	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

During the takeoff roll from an airport that did not have the perimeter completely fenced, the airplane collided with a deer that ran across the runway. The pilot successfully aborted the takeoff and taxied to his hangar.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The on-ground collision with a deer during the takeoff roll. A contributing factor in the accident was the failure to completely secure the airport perimeter.

Findings

Environmental issues	(general) - Contributed to outcome
Environmental issues	Animal(s)/bird(s) - Not specified

Factual Information

History of Flight

Takeoff	Wildlife encounter (non-bird) (Defining event)
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The pilot stated that during the takeoff roll while accelerating through 50 knots, the airplane collided with one of a group of four deer that ran across the runway from the left to the right. He aborted the takeoff without experiencing a loss of directional control and taxied the airplane to the hangar. He further stated that the airport is fenced around the perimeter with the exception of the main driveway, which provides access to the facility.

Pilot Information

Certificate:	Commercial	Age:	51, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	April 17, 2008
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 16, 2008
Flight Time:	2157 hours (Total, all aircraft), 690 hours (Total, this make and model), 2087 hours (Pilot In Command, all aircraft), 24 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MOONEY AIRCRAFT CORP.	Registration:	N2184N
Model/Series:	M20S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	30-0039
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	November 10, 2007 Annual	Certified Max Gross Wt.:	3200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	942 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	Installed, not activated	Engine Model/Series:	IO-550 SERIES
Registered Owner:	C & M AERONAUTICAL INC	Rated Power:	300 Horsepower
Operator:	C & M AERONAUTICAL INC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Dusk
Observation Facility, Elevation:	UCP,1070 ft msl	Distance from Accident Site:	
Observation Time:	19:56 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.2 inches Hg	Temperature/Dew Point:	17°C / 14°C
Precipitation and Obscuration:			
Departure Point:	New Castle, PA (UCP)	Type of Flight Plan Filed:	None
Destination:	New Castle, PA (UCP)	Type of Clearance:	None
Departure Time:	19:50 Local	Type of Airspace:	

Airport Information

Airport:	New Castle Municipal Airport UCP	Runway Surface Type:	Asphalt
Airport Elevation:	1070 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	3995 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	41.025276,-80.41333(est)

Administrative Information

Investigator In Charge (IIC):	Monville, Timothy
Additional Participating Persons:	John Hochendoner; FAA/FSDO; Pittsburgh, PA
Original Publish Date:	January 22, 2009
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=68974

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, “accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person” (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB’s statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available [here](#).