



# National Transportation Safety Board Aviation Accident Factual Report

---

<b>Location:</b>	Panama City, FL	<b>Accident Number:</b>	MIA08FA010
<b>Date &amp; Time:</b>	11/01/2007, 1406 CDT	<b>Registration:</b>	N4091H
<b>Aircraft:</b>	Mooney M20K	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Fatal, 1 Minor
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

---

## HISTORY OF FLIGHT

On November 1, 2007, at 1406 central daylight time, a Mooney M20K, N4091H, experienced an engine failure during cruise flight and was ditched 1 mile off the shore of Panama City Beach, Florida. The airplane was substantially damaged. The certificated private pilot was killed, and the passenger incurred minor injuries. Visual meteorological conditions prevailed at the time of the accident, and no flight plan was filed for the personal flight. The airplane was registered to Treasure Realty Incorporated and operated by the private pilot, under the provisions of Title 14 Code of Federal Regulations (CFR) Part 91. The flight originated from Panama City International Airport (PFN), Panama City, Florida, at 1345.

The pilot's mechanic stated that the pilot contacted him at approximately 1219, and requested that he prepare the airplane for a short flight. He advised the pilot that he would need some time to get it ready. The mechanic further stated that the pilot told him that he was only going on a 30-minute local flight, and that he would be there shortly. The mechanic tried to start the engine but was unsuccessful. He then pulled the fuel drain inside the cockpit and water started to drain out of the right fuel tank. He continued to drain water out of both fuel tanks for approximately 45 minutes, then connected a power cart to the airplane and attempted to start the engine. The engine finally started and he let it run for 15 minutes. The mechanic added that when the pilot arrived at the airport, he suggested that the pilot should allow him to fully drain the fuel tanks. In response, the pilot told him that he was going on a short flight and that "he had to go." At that point the pilot and the passenger boarded the airplane and began to taxi. The pilot began taxiing the airplane while the power cart was still connected to the airplane. After that, he had no further contact with the pilot.

The PFN air traffic control tower personnel reported that at 1345, the pilot contacted the PFN tower controller and requested to depart "VFR" to the west. The controller advised the pilot to taxi to runway 32. At 1348, the PFN tower controller cleared the pilot for takeoff. At 1403, the pilot contacted the tower and advised the controller that he had lost engine power and was attempting to restart the engine. The tower controller advised the pilot that he was "cleared to land on runway 5, and squawk 7700." The controller stated that the airplane was at 2,100 feet

over the beach, and 13 miles west of PFN, when the pilot radioed that he lost engine power. At 1406, the controller observed the airplane on radar at 600 feet. The pilot made no other radio transmissions to the air traffic controller.

#### PILOT INFORMATION

The pilot, age 57, held a private pilot certificate with ratings for instrument airplane and airplane single-engine land. His certificate was issued on May 27, 1979. He held a third-class medical certificate issued on July 28, 2005, with limitations for corrective lenses. The Federal Aviation Administration (FAA) blue ribbon medical records revealed that at the time of his last medical certificate, the pilot had a total flight time of 2,000 hours, and 50 hours within the last 6 months. The pilot's logbooks were not recovered for review.

#### AIRCRAFT INFORMATION

The airplane is a 1980 Mooney M20K, serial number 20-0468. It is a four-seat, low-wing airplane of predominantly aluminum construction with retractable tricycle landing gear. It was powered by a Teledyne Continental Motors (TCM) TSIO-360-GB, 220-horsepower engine and equipped with a two-bladed McCauley propeller, model 2A34C216.

The airplane's logbooks were not recovered for review. Review of a maintenance receipt revealed that the last annual inspection was conducted on March 6, 2007, at a total Hobbs time of 1,264.8. The total airframe time could not be determined. Review of refueling records revealed that the airplane was last refueled on August 8, 2007 at Sheltair Aviation Services, Panama City, Florida, with 51.10 gallons of aviation fuel.

#### WRECKAGE INFORMATION

The airplane was located 1,500 feet off the shore of Panama City Beach, in the Gulf of Mexico, and approximately 13 miles west of PFN.

The airplane was recovered from the Gulf and remained intact. All primary flight control surfaces and airframe components were accounted for on the airplane during the recovery. Examination of the primary flight control surfaces did not reveal any mechanical anomalies. Examination of the left and right wing assemblies revealed that both fuel tanks were not breached, and both fuel tanks contained an undetermined amount water and fuel.

The engine remained attached to the airframe and the engine was displaced downward in the engine mounts. No other external visual anomalies were observed on the engine. All engine accessories remained attached to the engine assembly. The firewall sustained impact damaged on the lower section. The electrical wiring harness, and all flexible fluid lines aft of the engine were intact. The throttle control was in the full forward position. The mixture control at the carburetor was in the full rich position. The carburetor heat was in the off position.

Examination of the fuel system revealed that the fuel manifold valve was intact and secured. The TCM lead seal was not observed on the fuel manifold. When disassembled, there was water inside the manifold valve. The screen was intact and no debris was observed beneath the screen.

The fuel pump assembly was intact and secured, and there was visible surface corrosion to the pump housing and fuel lines. All fuel lines were intact and secured. Water was observed in the fuel lines when disconnected at the pump, and no fuel was observed. The pump was rotated by hand and water was observed to flow from the fuel outlet line.

The propeller assembly remained attached to the propeller crankshaft flange. The propeller spinner assembly remained attached to the propeller spinner back plate and no damage was observed. Both propeller blades remained attached to the propeller hub. The propeller governor was intact and secured. The propeller control lever and cable were connected and actuated normally with no anomalies observed. No visual damage was observed to the hub assembly or blades.

#### MEDICAL AND PATHOLOGICAL INFORMATION

An autopsy was performed on the pilot on November 2, 2007 by the State of Florida Office of the Medical Examiner, District Fourteen, as authorized by the Chief Medical Examiner of Panama City, Florida. The cause of death was reported as "drowning."

Forensic toxicology was performed on specimens from the pilot by the FAA Bioaeronautical Sciences Research Laboratory, Oklahoma City, Oklahoma. The toxicology report stated no ethanol was detected in the liver or muscle. Review of the toxicology report revealed:

0.583 (ug/ml, ug/g) cocaine detected in the blood

6.702 (ug/ml, ug/g) benzoylecgonine detected in blood

ecgonine methyl ester detected in blood

anhydroecgonine methylester detected in the blood.

35.605(ug/ml, ug/g) cocaine detected in urine

1478.1 (ug/ml, ug/g) benzoylecgonine detected in urine

ecgonine methyl ester detected in urine

anhydroecgonine methylester detected in urine

0.055(ug/ml, ug/g) cocaethylene detected in the urine.

A review of FAA medical records revealed that the pilot's most recent application for a third-class Airman Medical Certificate indicates "No" in response to "Do You Currently Use Any Medication" and in response to all other items under "Medical History," including specifically "Substance dependence or failed a drug test ever, or substance abuse or use of illegal substance in the last 2 years," "Admission to hospital" and "Other illness, disability, and surgery." The application also indicates "No" in response to "history of any convictions involving driving while intoxicated by, while impaired by, or while under the influence of alcohol or a drug..." and to "History of non-traffic convictions (misdemeanors or felonies)." The report of medical examination accompanying the application notes that the pilot "has been issued" a medical certificate.

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	57, 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>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	Yes
<b>Medical Certification:</b>	Class 3 With Waivers/Limitations	<b>Last FAA Medical Exam:</b>	07/01/2005
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	2000 hours (Total, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N4091H
Model/Series:	M20K	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	25-0468
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	03/01/2007, Annual	Certified Max Gross Wt.:	2370 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1264.8 Hours as of last inspection	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	TSIO-360-GB
Registered Owner:	Treasure Realty Incorporated	Rated Power:	220 hp
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KPFN, 20 ft msl	Distance from Accident Site:	13 Nautical Miles
Observation Time:	1353 CDT	Direction from Accident Site:	80°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	15 knots / 21 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	40°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.97 inches Hg	Temperature/Dew Point:	27° C / 14° C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Panama City, FL (PFN)	Type of Flight Plan Filed:	None
Destination:	Panama City, FL (PFN)	Type of Clearance:	None
Departure Time:	1348 CDT	Type of Airspace:	

## Airport Information

Airport:	Panama City International (PFN)	Runway Surface Type:	
Airport Elevation:	20 ft	Runway Surface Condition:	
Runway Used:	NA	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced Landing

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Fatal	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 Minor	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Fatal, 1 Minor	<b>Latitude, Longitude:</b>	30.209167, -85.887500

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Eric H Alleyne
<b>Additional Participating Persons:</b>	George Colbow; FAA/FSDO; Birmingham, AL Greg Schmidt; Teledyne Continental Motors; Mobile, AL
<b>Investigation Docket:</b>	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .