



# Aviation Investigation Final Report

|                                |                           |                         |             |
|--------------------------------|---------------------------|-------------------------|-------------|
| <b>Location:</b>               | ENGLEWOOD, Colorado       | <b>Accident Number:</b> | DEN87LA126  |
| <b>Date &amp; Time:</b>        | May 17, 1987, 08:40 Local | <b>Registration:</b>    | N201MK      |
| <b>Aircraft:</b>               | MOONEY M20J               | <b>Aircraft Damage:</b> | Substantial |
| <b>Defining Event:</b>         |                           | <b>Injuries:</b>        | 2 None      |
| <b>Flight Conducted Under:</b> | Part 91: General aviation |                         |             |

## Analysis

THE PRIVATE PLT AND HIS PAX WERE STARTING A CROSS COUNTRY BUSINESS FLT. THE PLT REPORTED THAT ON INITIAL CLIMB, AT 100 FEET AGL. THE ACFT LOST PARTIAL PWR AND BEGAN TO SETTLE. A GEAR UP, FORCED LANDING TO A FIELD RESULTED IN SUBSTANTIAL DAMAGE TO THE ACFT. INVESTIGATION DID NOT REVEAL ANY PREIMPACT MECHANICAL FAILURES/MALFUNCTIONS.

## Probable Cause and Findings

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

### Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL  
Phase of Operation: TAKEOFF - INITIAL CLIMB

#### Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED  
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Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY  
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: DESCENT - UNCONTROLLED

Findings

2. (F) WHEELS UP LANDING - PERFORMED - PILOT IN COMMAND
3. TERRAIN CONDITION - OPEN FIELD

## Factual Information

### Pilot Information

|                                  |  |  |               |
|----------------------------------|--|--|---------------|
| <b>Certificate:</b>              | Private  | <b>Age:</b>                              | 26, Male      |
| <b>Airplane Rating(s):</b>       | Single-engine land; Multi-engine land  | <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>             | No            |
| <b>Instructor Rating(s):</b>     | None   | <b>Toxicology Performed:</b>             | No            |
| <b>Medical Certification:</b>    | Class 3 Valid Medical--no waivers/lim.   | <b>Last FAA Medical Exam:</b>            | July 23, 1986 |
| <b>Occupational Pilot:</b>       | No   | <b>Last Flight Review or Equivalent:</b> |               |
| <b>Flight Time:</b>              | 278 hours (Total, all aircraft), 1 hours (Total, this make and model), 183 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft) |  |               |

### Aircraft and Owner/Operator Information

|                                      |                          |                                       |                          |
|--------------------------------------|--------------------------|---------------------------------------|--------------------------|
| <b>Aircraft Make:</b>                | MOONEY                   | <b>Registration:</b>                  | N201MK                   |
| <b>Model/Series:</b>                 | M20J M20J                | <b>Aircraft Category:</b>             | Airplane                 |
| <b>Year of Manufacture:</b>          |                          | <b>Amateur Built:</b>                 |                          |
| <b>Airworthiness Certificate:</b>    | Normal                   | <b>Serial Number:</b>                 | 24-0204                  |
| <b>Landing Gear Type:</b>            | Retractable - Tricycle   | <b>Seats:</b>                         | 4                        |
| <b>Date/Type of Last Inspection:</b> | December 1, 1986 Annual  | <b>Certified Max Gross Wt.:</b>       | 2740 lbs                 |
| <b>Time Since Last Inspection:</b>   | 33 Hrs                   | <b>Engines:</b>                       | 1 Reciprocating          |
| <b>Airframe Total Time:</b>          | 2461 Hrs                 | <b>Engine Manufacturer:</b>           | LYCOMING                 |
| <b>ELT:</b>                          | Installed, not activated | <b>Engine Model/Series:</b>           | IO-360-A1B6D             |
| <b>Registered Owner:</b>             | WINGS OF DENVER          | <b>Rated Power:</b>                   | 200 Horsepower           |
| <b>Operator:</b>                     |                          | <b>Operating Certificate(s) Held:</b> | On-demand air taxi (135) |
| <b>Operator Does Business As:</b>    |                          | <b>Operator Designator Code:</b>      |                          |

## Meteorological Information and Flight Plan

|   |                                  |   |            |
|---|----------------------------------|---|------------|
| <b>Conditions at Accident Site:</b>     | Visual (VMC)                     | <b>Condition of Light:</b>                  | Day        |
| <b>Observation Facility, Elevation:</b> | APA ,5872 ft msl                 | <b>Distance from Accident Site:</b>         |            |
| <b>Observation Time:</b>                | 08:45 Local                      | <b>Direction from Accident Site:</b>        |            |
| <b>Lowest Cloud Condition:</b>          | Scattered / 800 ft AGL           | <b>Visibility</b>                           | 50 miles   |
| <b>Lowest Ceiling:</b>                  | None                             | <b>Visibility (RVR):</b>                    |            |
| <b>Wind Speed/Gusts:</b>                | /                                | <b>Turbulence Type Forecast/Actual:</b>     | /          |
| <b>Wind Direction:</b>                  | 0°                               | <b>Turbulence Severity Forecast/Actual:</b> | /          |
| <b>Altimeter Setting:</b>               | 29 inches Hg                     | <b>Temperature/Dew Point:</b>               | 17°C / 9°C |
| <b>Precipitation and Obscuration:</b>   | No Obscuration; No Precipitation |   |            |
| <b>Departure Point:</b>                 |                                  | <b>Type of Flight Plan Filed:</b>           | VFR        |
| <b>Destination:</b>                     | SIoux CITY , IA (SUX )           | <b>Type of Clearance:</b>                   | None       |
| <b>Departure Time:</b>                  | 08:40 Local                      | <b>Type of Airspace:</b>                    | Class D    |

## Airport Information

|                             |             |                                  |                |
|-----------------------------|-------------|----------------------------------|----------------|
| <b>Airport:</b>             |             | <b>Runway Surface Type:</b>      | Grass/turf     |
| <b>Airport Elevation:</b>   | 0 ft msl    | <b>Runway Surface Condition:</b> | Dry            |
| <b>Runway Used:</b>         | 0           | <b>IFR Approach:</b>             | None           |
| <b>Runway Length/Width:</b> | 0 ft / 0 ft | <b>VFR Approach/Landing:</b>     | Forced landing |

## Wreckage and Impact Information

|                            |        |                             |                            |
|----------------------------|--------|-----------------------------|----------------------------|
| <b>Crew Injuries:</b>      | 1 None | <b>Aircraft Damage:</b>     | Substantial                |
| <b>Passenger Injuries:</b> | 1 None | <b>Aircraft Fire:</b>       | None                       |
| <b>Ground Injuries:</b>    | N/A    | <b>Aircraft Explosion:</b>  | None                       |
| <b>Total Injuries:</b>     | 2 None | <b>Latitude, Longitude:</b> | 39.580982,-104.859344(est) |

## Administrative Information

|  |   |
|--|---|
| <b>Investigator In Charge (IIC):</b>     | Collins, Robert   |
| <b>Additional Participating Persons:</b> | AL LUNDQUIST; AURORA , CO<br>TOM CONWAY; AURORA , CO  |
| <b>Original Publish Date:</b>            | October 7, 1988   |
| <b>Last Revision Date:</b>               |   |
| <b>Investigation Class:</b>              | <a href="#">Class</a>   |
| <b>Note:</b>                             |   |
| <b>Investigation Docket:</b>             | <a href="https://data.nts.gov/Docket?ProjectID=17226">https://data.nts.gov/Docket?ProjectID=17226</a> |

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