



# Aviation Investigation Final Report

<b>Location:</b>	WALL, South Dakota	<b>Accident Number:</b>	DEN86LA116
<b>Date &amp; Time:</b>	April 13, 1986, 13:25 Local	<b>Registration:</b>	N4479W
<b>Aircraft:</b>	BEECH A-36	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Serious, 1 Minor, 1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation		

## Analysis

ACCORDING TO THE PLT HE WAS MAKING A PRECAUTIONARY LANDING DUE TO WX, WHEN THE ACFT HE WAS PILOTING ENCOUNTERED AN UNEXPECTED CROSSWIND JUST PRIOR TO TOUCHDOWN. THE PLT SAID THE LEFT WING DIPPED & MADE CONTACT WITH THE GROUND. THE IMPACT RESULTED IN SUBSTANTIAL DAMAGE TO THE ACFT. WITNESSES AT THE ACCIDENT SITE REPORTED THE VISIBILITY TO BE LESS THAN 1/2 MI WITH SNOW AND BLOWING SNOW.

## Probable Cause and Findings

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

### Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER  
Phase of Operation: MANEUVERING - TURN TO REVERSE DIRECTION

- Findings
1. WEATHER CONDITION - SNOW
  2. (C) VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND
  3. REMEDIAL ACTION - NOT POSSIBLE - PILOT IN COMMAND
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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: LANDING

Findings

4. AIRPORT FACILITIES,RUNWAY/LANDING AREA CONDITION - SNOW COVERED
5. (F) WEATHER CONDITION - CROSSWIND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	43, 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>	
<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>	August 19, 1985
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	468 hours (Total, all aircraft), 4 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	BEECH	<b>Registration:</b>	N4479W
<b>Model/Series:</b>	A-36 A-36	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	3-544
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	September 9, 1985 Annual	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>	63 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	1758 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	IO-520-BA
<b>Registered Owner:</b>		<b>Rated Power:</b>	285 Horsepower
<b>Operator:</b>	RONALD E. BRODOWICZ AND	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	WILLIAM LEE	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Instrument (IMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Unknown	<b>Visibility</b>	
<b>Lowest Ceiling:</b>	Overcast / 200 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	15 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	360°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	-1°C
<b>Precipitation and Obscuration:</b>	Moderate - None - Snow		
<b>Departure Point:</b>	GREGORY , SD (9D1 )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	RAPID CITY , SD (RAP )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	12:45 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	WALL MUNICIPAL 6V4	<b>Runway Surface Type:</b>	Grass/turf;Snow
<b>Airport Elevation:</b>	2810 ft msl	<b>Runway Surface Condition:</b>	Snow
<b>Runway Used:</b>	30	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3000 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 Minor, 1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Serious, 1 Minor, 1 None	<b>Latitude, Longitude:</b>	43.990684,-102.230606(est)

## Administrative Information

**Investigator In Charge (IIC):** Mickle, Ronald

**Additional Participating Persons:** KATHY JONES; RAPID CITY , SD

**Original Publish Date:**

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=16949>

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