



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	LK IN THE HILLS, IL	<b>Accident Number:</b>	CHI84LA100
<b>Date &amp; Time:</b>	02/01/1984, 2135 CST	<b>Registration:</b>	N3631S
<b>Aircraft:</b>	CESSNA 172E	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor, 3 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

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## Analysis

THE PLT MADE A HARD LANDING WHICH DAMAGED THE NOSE GEAR MAKING IT IMPOSSIBLE FOR THE PLT TO AVOID A COLLISION WITH A SNOWBANK DURING A SUBSEQUENT LANDING.

## Probable Cause and Findings

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

## Findings

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Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) LIGHT CONDITION - NIGHT
2. (F) AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - WET
3. (F) TERRAIN CONDITION - SNOW COVERED
4. (C) FLARE - MISJUDGED - PILOT IN COMMAND
5. (F) VISUAL/AURAL DETECTION - PILOT IN COMMAND

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Occurrence #2: NOSE GEAR COLLAPSED

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

6. LANDING GEAR, NOSE GEAR - OVERLOAD

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Occurrence #3: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

7. DIRECTIONAL CONTROL - NOT POSSIBLE
8. GROUND LOOP/SWERVE - UNCONTROLLED

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Occurrence #4: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

9. (F) TERRAIN CONDITION - SNOWBANK

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	45, 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
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	08/12/1983
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	351 hours (Total, all aircraft), 351 hours (Total, this make and model), 283 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N3631S
<b>Model/Series:</b>	172E 172E	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>		<b>Serial Number:</b>	7250831
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	07/01/1983, Annual	<b>Certified Max Gross Wt.:</b>	2300 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	3982 Hours	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-300-D
<b>Registered Owner:</b>	RONNIE D. OWEN	<b>Rated Power:</b>	145 hp
<b>Operator:</b>	RONNIE D. OWEN	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Bright
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	2° C
Precipitation and Obscuration:			
Departure Point:	MILWAUKEE, WI (WMC)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	2030 CST	Type of Airspace:	Airport Advisory Area

## Airport Information

Airport:	LAKE IN THE HILLS (3CK)	Runway Surface Type:	Asphalt
Airport Elevation:	890 ft	Runway Surface Condition:	Wet
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	3000 ft / 50 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

## Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 3 None	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	FRED A RATHKE	Report Date:	
Additional Participating Persons:			
Publish Date:			
Investigation Docket:	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> .		

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).