



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	GARDEN CITY, KS	<b>Accident Number:</b>	CHI94LA220
<b>Date &amp; Time:</b>	07/01/1994, 2240 CDT	<b>Registration:</b>	N901JM
<b>Aircraft:</b>	CESSNA 182E	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

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## Analysis

THE PILOT STATED THAT HE DEPARTED LAWRENCE, KANSAS, AT 1950 CENTRAL DAYLIGHT TIME WITH THE INTENDED DESTINATION OF LAMAR, COLORADO. EN ROUTE HE ELECTED TO LAND AT GARDEN CITY, KANSAS, TO REFUEL. WHILE ATTEMPTING TO LAND AT GARDEN CITY, THE AIRPLANE SUFFERED A TOTAL LOSS OF ENGINE POWER AT APPROXIMATELY 2235, ACCORDING TO THE PILOT. THE PILOT PERFORMED A FORCED LANDING IN A CROP FIELD, WHERE ON LANDING THE AIRPLANE IMPACTED THE ROUGH/UNEVEN TERRAIN. SUBSEQUENT EXAMINATION OF THE AIRPLANE REVEALED ONLY UNUSABLE FUEL REMAINING IN THE TANKS.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: fuel exhaustion for reason or reasons undetermined. A factor was the rough/uneven terrain.

## Findings

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Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL  
Phase of Operation: APPROACH - VFR PATTERN - DOWNWIND

### Findings

1. FLUID,FUEL - EXHAUSTION
2. (C) REASON FOR OCCURRENCE UNDETERMINED

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Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

3. (F) TERRAIN CONDITION - ROUGH/UNEVEN

## Factual Information

On July 1, 1994, at 2240 central daylight time, a Cessna 182E, N901JM, registered to Larry G. Howes of Superior, Colorado, and piloted by a commercial pilot, impacted the terrain while attempting to land at Garden City Municipal Airport, Garden City, Kansas. Visual meteorological conditions prevailed at the time of the accident and an instrument flight plan was filed. The personal flight was operated under 14 CFR part 91. The aircraft sustained substantial damage. The pilot reported minor injuries. The flight originated from Lawrence, Kansas, at approximately 1950, with the intended destination of Lamar, Colorado.

En route to Lamar County the pilot-in-command decided to stop at Garden City Municipal Airport to refuel. According to the pilot's statement the engine quit at approximately 2235. He stated that he attempted to restart the engine, but was unable to do so. He decided to land in a furrowed wheat field approximately four miles northeast of Garden City Municipal Airport. During the landing the airplane impacted rough terrain.

A subsequent examination of the airplane revealed only unusable fuel remaining in the tank. There were no leaks in the fuel system observed at the scene of the accident.

The pilot supplied fuel receipts indicating fuel purchased en route. He was unable to speculate as to why the airplane suffered fuel exhaustion. He said that the loss of engine power came as a surprise to him. He stated the stop for fuel was being made, not because he felt an immediate need for fuel, but that he would be unable to obtain fuel on arrival at his final destination due to the late hour.

## Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	24, 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 2 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	05/11/1994
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	299 hours (Total, all aircraft), 172 hours (Total, this make and model), 254 hours (Pilot In Command, all aircraft), 82 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 9 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N901JM
Model/Series:	182E 182E	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	18253901
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	09/10/1993, Annual	Certified Max Gross Wt.:	2800 lbs
Time Since Last Inspection:	219 Hours	Engines:	1 Reciprocating
Airframe Total Time:	2539 Hours	Engine Manufacturer:	CONTINENTAL
ELT:		Engine Model/Series:	O-470-R
Registered Owner:	HOWES, LARRY G.	Rated Power:	230 hp
Operator:	HOWES, LARRY G.	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	GCK, 2889 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	2250 CDT	Direction from Accident Site:	0°
Lowest Cloud Condition:	Scattered / 14000 ft agl	Visibility	20 Miles
Lowest Ceiling:	Broken / 25000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	15 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	28° C / 11° C
Precipitation and Obscuration:			
Departure Point:	LAWRENCE, KS (LWC)	Type of Flight Plan Filed:	None
Destination:	LAMAR, CO (LAA)	Type of Clearance:	None
Departure Time:	1950 CDT	Type of Airspace:	Class G

## Wreckage and Impact Information

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

## Administrative Information

**Investigator In Charge (IIC):** STEPHEN A WILSON **Report Date:** 02/14/1995

**Additional Participating Persons:** ANDREW NELSON; WICHITA, KS

**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 [pubinq@ntsb.gov](mailto:pubinq@ntsb.gov), or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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