



Aviation Investigation Final Report

Location:	KENNEWICK, Washington	Accident Number:	SEA88LA040
Date & Time:	January 24, 1988, 11:20 Local	Registration:	N3316Z
Aircraft:	PIPER PA-22-150	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

AT ABOUT 75 FEET AGL A TOTAL LOSS OF POWER OCCURRED. THE PLT LANDED ON THE REMAINING RUNWAY BUT OVERRAN THE RWY, COMING TO REST 200 FT BEYOND THE END. DURING THE OVERRUN, THE NOSE GEAR STRUCK A ROCK AND THE ACFT NOSED OVER. THE AIRCRAFT'S FUEL TANKS CONTAINED AUTOMOTIVE FUEL ALTHOUGH THE AIRCRAFT HAD NO STC FOR THE USE OF AUTOMOTIVE FUEL. THE FUEL WAS EXAMINED AFTER THE ACCIDENT AND WAS ALSO CONTAMINATED WITH WATER AND DIRT. SAMPLES OF FUEL WERE TAKEN FROM THE SUMP DRAINS AND THE GASCOLATOR. THE PLT DID NOT FILE AN ACC REPORT.

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(TOTAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) MAINTENANCE,SERVICE OF AIRCRAFT/EQUIPMENT - IMPROPER
2. (F) FLUID,FUEL GRADE - IMPROPER
3. (C) FLUID,FUEL - WATER
4. (C) FLUID,FUEL - CONTAMINATION

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

Occurrence #3: OVERRUN
Phase of Operation: LANDING - ROLL

Occurrence #4: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING - ROLL

Findings
5. (F) TERRAIN CONDITION - ROUGH/UNEVEN

Occurrence #5: NOSE OVER
Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Private	Age:	31, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	March 14, 1986
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	300 hours (Total, all aircraft), 150 hours (Total, this make and model), 35 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N3316Z
Model/Series:	PA-22-150 PA-22-150	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-7250
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	1950 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1800 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-320-A1A
Registered Owner:	DOUGLAS MCCANCE	Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	S98 ,521 ft msl	Distance from Accident Site:	
Observation Time:	11:00 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	35 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	KENNEWICK , WA (S98)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	11:20 Local	Type of Airspace:	Class G

Airport Information

Airport:	VISTA FIELD S98	Runway Surface Type:	Asphalt
Airport Elevation:	521 ft msl	Runway Surface Condition:	Dry
Runway Used:	2	IFR Approach:	None
Runway Length/Width:	3490 ft / 150 ft	VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	46.209735,-119.159645(est)

Administrative Information

Investigator In Charge (IIC): Carrera, Candace

Additional Participating Persons: MARY HOY; SEATTLE , WA
HERMAN ROSS; SEATTLE , WA

Original Publish Date: April 25, 1989

Last Revision Date:

Investigation Class: [Class](#)

Note:

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=40773>

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, “accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person” (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB’s statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available [here](#).