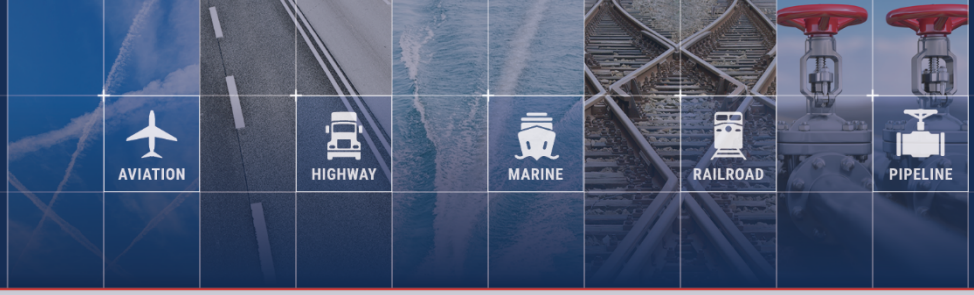

Aviation Investigation Final Report

Location:	SLATER, Missouri	**Accident Number:**	MKC84LA283
Date & Time:	September 22, 1984, 16:30 Local	**Registration:**	N30HW
Aircraft:	ENSTROM F-28A	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

PLT QUICKLY PULLED EXCESSIVE COLLECTIVE WHILE ATTEMPTING TAKEOFF FROM A HOVER. ROTOR RPM DECREASED AND THE ACFT TOUCHED DOWN HARD ON THE RIGHT SKID. A POST ACCIDENT ENGINE RUN REVEALED NO DISCREPANCIES.

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) COLLECTIVE - IMPROPER USE OF - PILOT IN COMMAND
2. (C) ROTOR RPM - NOT MAINTAINED - PILOT IN COMMAND
3. LACK OF TOTAL EXPERIENCE IN KIND OF AIRCRAFT - PILOT IN COMMAND
4. PRECAUTIONARY LANDING - ATTEMPTED - PILOT IN COMMAND

Occurrence #2: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

Certificate:	Private	**Age:**	59,Male
Airplane Rating(s):	Single-engine land	**Seat Occupied:**	Left
Other Aircraft Rating(s):	Helicopter	**Restraint Used:**	
Instrument Rating(s):	Airplane	**Second Pilot Present:**	No
Instructor Rating(s):	None	**Toxicology Performed:**	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	**Last FAA Medical Exam:**	April 7, 1984
Occupational Pilot:	UNK	**Last Flight Review or Equivalent:**	
Flight Time:	1182 hours (Total, all aircraft), 7 hours (Total, this make and model), 1024 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	ENSTROM	**Registration:**	N30HW
Model/Series:	F-28A F-28A	**Aircraft Category:**	Helicopter
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	172
Landing Gear Type:	Skid	**Seats:**	3
Date/Type of Last Inspection:	March 13, 1984 Annual	**Certified Max Gross Wt.:**	2150 lbs
Time Since Last Inspection:	52 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	870 Hrs	**Engine Manufacturer:**	LYCOMING
ELT:	Installed	**Engine Model/Series:**	HIO-360-C1B
Registered Owner:	CHARLES R. LARUE	**Rated Power:**	205 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:		**Distance from Accident Site:**	
Observation Time:		**Direction from Accident Site:**	
Lowest Cloud Condition:	Clear	**Visibility**	15 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	7 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	240°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:	29 inches Hg	**Temperature/Dew Point:**	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		**Type of Flight Plan Filed:**	None
Destination:		**Type of Clearance:**	None
Departure Time:	16:00 Local	**Type of Airspace:**	Class G

Airport Information

Airport:	SLATER MEMORIAL 9K5	**Runway Surface Type:**	Grass/turf
Airport Elevation:	860 ft msl	**Runway Surface Condition:**	Dry
Runway Used:	22	**IFR Approach:**	None
Runway Length/Width:	2365 ft / 150 ft	**VFR Approach/Landing:**	None

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:		**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 None	**Latitude, Longitude:**	39.219863,-93.059532(est)

Administrative Information

Investigator In Charge (IIC):	Johnson, Robert
Additional Participating Persons:	R. STERNICKER; KANSAS CITY , MO
Original Publish Date:	
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=33797