

Aviation Investigation Final Report

Location:	BALMORHEA, Texas		Accident Number:	FTW83LA008
Date & Time:	October 4, 1982, 14:	15 Local	Registration:	N8045F
Aircraft:	HUGHES	TH-55A	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General avia	tion		

Analysis

A HUGHES HELICOPTER WAS DAMAGED WHEN IT LOST POWER DURING TAKEOFF AND WAS CRASHED INTO A TREE TO PREVENT IT FROM ROLLING DOWN A HILL. THE WEATHER WAS VMC AND NO FLIGHT PLAN WAS FILED. THE PILOT SAID THE MANIFOLD PRESSURE DECAYED FROM22 INCHES TO 18 INCHES AND ROTOR RPM BEGAN TO BLEED OFF. THE PILOT TRIED TO REGAIN MANIFOLD PRESSURE BY REDUCING COLLECTIVE BUT WAS UNSUCCESSFUL. DENSITY ALTITUDE WAS 8,800 FEET. NO DISCREPANCIES, OTHER THAN IMPACT RELATED, WERE FOUND DURING AN INSPECTION OF THE ENGINE.

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 Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED 2. (F) WEATHER CONDITION - HIGH DENSITY ALTITUDE

Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 3. (F) TERRAIN CONDITION - HIGH TERRAIN 4. (F) TERRAIN CONDITION - MOUNTAINOUS/HILLY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 5. (F) OBJECT - TREE(S) 6. (F) TERRAIN CONDITION - DOWNHILL

Factual Information

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	31,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical–no waivers/lim.	Last FAA Medical Exam:	January 22, 1982
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	5985 hours (Total, all aircraft), 280 hours (Total, this make and model), 5560 hours (Pilot In Command, all aircraft), 49 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	HUGHES	Registration:	N8045F
Model/Series:	TH-55A TH-55A	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	46-0518
Landing Gear Type:	Skid	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1550 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	4394 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	HIO-360-B1A
Registered Owner:	LOS HERMANOS DE LA FRONTERA	Rated Power:	180 Horsepower
Operator:	LOS HERMANOS DE LA FRONTERA	Operating Certificate(s) Held:	
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:	14:15 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 25000 ft AGL	Visibility	40 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	210°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	72°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	PECOS , TX	Type of Flight Plan Filed:	None
Destination:	PECOS , TX	Type of Clearance:	None
Departure Time:	13:40 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	Dirt
Airport Elevation:	0 ft msl	Runway Surface Condition:	Dry;Rough
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	None

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:	30.979259,-103.739196(est)

Administrative Information

Investigator In Charge (IIC):	
Additional Participating Persons:	
Original Publish Date:	October 4, 1983
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=69876

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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 <u>here</u>.