

**NATIONAL TRANSPORTATION SAFETY BOARD
PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT**

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location
 Nearest City/Place: Mullins TX State: TX
 ZIP: 76864 Country: Mills
 Latitude: _____ Longitude: _____
(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time
 Date: 01-04-2020 Local Time: 4:00 pm
mm/dd/yyyy Time Zone: Central
 Collision with Other Aircraft: Midair On-ground None

AIRCRAFT INFORMATION

Registration Number: N5573M
 Manufacturer: Aero Commander
 Model: 100
 Serial Number: 107
 Year of Manufacture: 1967
 Amateur-Built: Yes No
 If Yes: Kit/Plans Original Design Make: _____

IFR-Equipped and Certified
 Commercial Space Flight
 Unmanned Aircraft
 Maximum Gross Weight: 2250 lbs
 Weight at Time of Accident/Incident: 2022.5 lbs
 Number of Seats: 4 Flight Crew Seats: 2
 Cabin Crew Seats: 0 Passenger Seats: 2
 Number of Engines: 2

Category of Aircraft <input checked="" type="radio"/> Airplane <input type="radio"/> Balloon <input type="radio"/> Blimp/Dirigible <input type="radio"/> Glider <input type="radio"/> Gyroplane <input type="radio"/> Helicopter <input type="radio"/> Powered Lift <input type="radio"/> Rocket <input type="radio"/> Ultralight <input type="radio"/> Unknown	Type of Airworthiness Certificate <i>(Check all that apply)</i> Standard <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Aerobatic <input type="checkbox"/> Balloon <input type="checkbox"/> Commuter <input type="checkbox"/> Transport <input type="checkbox"/> Utility <input type="checkbox"/> Certificate of Authorization or Waiver (COA) <input type="checkbox"/> None	Special <input type="checkbox"/> Restricted <input type="checkbox"/> Limited <input type="checkbox"/> Provisional <input type="checkbox"/> Special Flight <input type="checkbox"/> Experimental <input type="checkbox"/> Special Light-Sport <input type="checkbox"/> Experimental Light-Sport <input type="checkbox"/> Unknown	Landing Gear <i>(Check all that apply)</i> <input type="checkbox"/> Retractable <input checked="" type="checkbox"/> Tricycle <input type="checkbox"/> Amphibian <input type="checkbox"/> Emergency Float <input type="checkbox"/> Float <input type="checkbox"/> Hull <input type="checkbox"/> Other Launch/Recovery System <input type="checkbox"/> None	<input type="checkbox"/> Tailwheel <input type="checkbox"/> High Skid <input type="checkbox"/> Skid <input type="checkbox"/> Ski <input type="checkbox"/> Ski/Wheel <input type="checkbox"/> Unknown	Engine Type (Select one) <input checked="" type="radio"/> Reciprocating <input type="radio"/> Turbo Shaft <input type="radio"/> Turbo Prop <input type="radio"/> Turbo Jet <input type="radio"/> Turbo Fan <input type="radio"/> Electric <input type="radio"/> Liquid Rocket <input type="radio"/> Solid Rocket <input type="radio"/> Hybrid Rocket <input type="radio"/> None <input type="radio"/> Unknown Fuel System Type (Reciprocating) <input checked="" type="radio"/> Carburetor <input type="radio"/> Fuel-Injected
	Certificate of Authorization or Waiver (COA) <input type="checkbox"/> None <input type="checkbox"/> Unknown				

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power <input checked="" type="radio"/> Horsepower or <input type="radio"/> lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	<u>Lycoming</u>	<u>O-320-A2B</u>	<u>L17101-27A</u>	<u>7-6-67</u>	<u>150</u>	<u>2335.38</u>	<u>57.53</u>	<u>365.39</u>
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type <input checked="" type="radio"/> 100-Hour <input type="radio"/> AAIP <input checked="" type="radio"/> Annual <input type="radio"/> Continuous Airworthiness <input type="radio"/> Conditional Inspection <input type="radio"/> Unknown Date Last Inspection: <u>6-28-19</u> <i>mm/dd/yyyy</i> Airframe Total Time: <u>2335.38</u> hrs hours measured at (Select one) <input checked="" type="radio"/> Last Inspection <input type="radio"/> Time of Accident/Incident	Propeller 1 <input checked="" type="checkbox"/> Fixed Pitch <input type="checkbox"/> Controllable Pitch <input type="checkbox"/> Ground Adjustable Manufacturer: <u>Sensenich</u> Model: <u>M74DM-0-60</u>	Propeller 2 <input type="checkbox"/> Fixed Pitch <input type="checkbox"/> Controllable Pitch <input type="checkbox"/> Ground Adjustable Manufacturer: _____ Model: _____
Type of Maintenance Program (Select one) <input checked="" type="radio"/> Annual <input type="radio"/> Conditional (Amateur-built only) <input type="radio"/> Manufacturer's Inspection Program <input type="radio"/> Other Approved Inspection Program (AAIP) <input checked="" type="radio"/> Continuous Airworthiness <input type="radio"/> Other, specify: _____	ELT Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes: ELT Manufacturer: <u>Narco</u> Model or Part No.: <u>BP-1010</u> TSO No.: <input checked="" type="checkbox"/> C91 (121.5 MHz) <input type="checkbox"/> C91a (121.5 MHz) <input type="checkbox"/> C126 (406 MHz) Was ELT still mounted in aircraft? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was ELT still connected to antenna? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did ELT Activate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If activated: Did ELT Aid in Locating Aircraft? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If not activated: Indicate Reason: <input type="checkbox"/> Impact Damage <input type="checkbox"/> Fire Damage <input type="checkbox"/> Battery Expired/Damaged <input checked="" type="checkbox"/> Unknown	Additional Equipment (Check all that apply) <input type="checkbox"/> ADS-B <input type="checkbox"/> Airframe Parachute <input type="checkbox"/> Angle of Attack Indicator <input type="checkbox"/> Autopilot <input type="checkbox"/> Data Recorder <input type="checkbox"/> Electronic Flight Bag or Handheld Device <input type="checkbox"/> Electronic Multifunction Display <input type="checkbox"/> Electronic Primary Flight Display <input checked="" type="checkbox"/> Handheld GPS <input type="checkbox"/> Heads Up Display <input type="checkbox"/> Onboard Weather <input type="checkbox"/> Satellite Tracking Device <input checked="" type="checkbox"/> Stall Warning System <input type="checkbox"/> Video Recording Device <input checked="" type="checkbox"/> Other, Specify: <u>Fore Flight FFly GPS</u>
Description of Fire Extinguishing System <input type="radio"/> None <input checked="" type="radio"/> Specify: <u>Fire Extinguisher on board.</u>		

OWNER/OPERATOR INFORMATION

Registered Aircraft Owner
 Name: Jeremy Clay City: Dublin Tx
 State: TX ZIP: 76446
 Fractional Ownership Aircraft: Yes No Country: Erath

Operator of Aircraft Same As Registered Owner Same Address as Registered Owner
 Name: _____ City: _____
 Doing Business As: _____ State: _____ ZIP: _____
 Air Carrier/Operator Designator (4 Character Code): _____ Country: _____

Operating Certificates Held <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Flag Carrier Operating Certificate (FAR 121) <input type="checkbox"/> Supplemental <input type="checkbox"/> Air Cargo <input type="checkbox"/> Foreign Air Carriers (FAR 129) <input type="checkbox"/> Rotorcraft External Load (FAR 133) <input type="checkbox"/> Commuter Air Carrier (FAR 135) <input type="checkbox"/> On-Demand Air Taxi (FAR 135) <input type="checkbox"/> Commercial Air Tour (FAR 136) <input type="checkbox"/> Agricultural Aircraft (FAR 137) <input type="checkbox"/> Pilot School (FAR 141) <input type="checkbox"/> Certificate of Authorization or Waiver (COA) <input type="checkbox"/> Commercial Space Transportation Experimental Permit <input type="checkbox"/> Commercial Space Transportation License <input type="checkbox"/> Other Operator of Large Aircraft	Regulation Flight Conducted Under <input checked="" type="checkbox"/> FAR 91 <input type="checkbox"/> FAR 129 <input type="checkbox"/> FAR 415 <input type="checkbox"/> FAR 103 <input type="checkbox"/> FAR 133 <input type="checkbox"/> FAR 431 <input type="checkbox"/> FAR 121 <input type="checkbox"/> FAR 135 <input type="checkbox"/> FAR 435 <input type="checkbox"/> FAR 125 <input type="checkbox"/> FAR 137 <input type="checkbox"/> FAR 437 <input type="checkbox"/> FAR 91 Special Flight <input type="checkbox"/> Non-US, Commercial <input type="checkbox"/> Non-US, Non-commercial <input type="checkbox"/> Public Aircraft <i>(Select one)</i> <input type="checkbox"/> Armed Forces <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Local <input type="checkbox"/> Unknown	Revenue Operation for FAR 121, 125, 129, 135 <i>(Select one for each group)</i> <input type="checkbox"/> Scheduled or Commuter <input type="checkbox"/> Domestic <input type="checkbox"/> Non-Scheduled or Air Taxi <input type="checkbox"/> International <input type="checkbox"/> Passenger <input type="checkbox"/> Cargo <input type="checkbox"/> Mail Contract Only
	Purpose of Flight for FAR 91, 103, 133, 137 <i>(Select one)</i> <input type="checkbox"/> Aerial Application <input type="checkbox"/> Firefighting <input type="checkbox"/> Unknown <input type="checkbox"/> Aerial Observation <input type="checkbox"/> Flight Test <input type="checkbox"/> Air Drop <input type="checkbox"/> Glider Tow <input type="checkbox"/> Air Race/Show <input type="checkbox"/> Instructional <input type="checkbox"/> Banner Tow <input type="checkbox"/> Other Work Use <input type="checkbox"/> Business <input checked="" type="checkbox"/> Personal <input type="checkbox"/> Executive/Corporate <input type="checkbox"/> Positioning <input type="checkbox"/> External Load <input type="checkbox"/> Skydiving <input type="checkbox"/> Ferry	
Revenue Sightseeing Flight <input type="radio"/> Yes <input type="radio"/> No	Air Medical Flight <input type="radio"/> Yes <input type="radio"/> No	

AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)

Airport Name: NA Private Distance From Airport Center: 1.2 sm
 Airport Identifier: NA Direction From Airport: South degrees true
 Proximity to Airport: Off Airport/Airstrip On Airport/Airstrip N/A
 Airport Elevation: 1500 ft. msl

Runway Information Runway ID: <u>NA</u> (L/R/C) Length: <u>NA</u> ft Width: <u>NA</u> ft	Condition of Runway/Landing Surface <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Snow-Compacted <input type="checkbox"/> Water-Calm <input type="checkbox"/> Holes <input type="checkbox"/> Snow-Crusted <input type="checkbox"/> Water-Choppy <input type="checkbox"/> Ice Covered <input type="checkbox"/> Snow-Dry <input type="checkbox"/> Water-Glassy <input checked="" type="checkbox"/> Rough <input type="checkbox"/> Snow-Wet <input type="checkbox"/> Wet <input type="checkbox"/> Rubber Deposits <input checked="" type="checkbox"/> Soft <input type="checkbox"/> Slush-Covered <input type="checkbox"/> Vegetation <input type="checkbox"/> Unknown
Runway/Landing Surface <i>(Check all that apply)</i> <input type="checkbox"/> Asphalt <input type="checkbox"/> Grass/Turf <input type="checkbox"/> Macadam <input type="checkbox"/> Water <input type="checkbox"/> Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Metal/Wood <input checked="" type="checkbox"/> Dirt <input type="checkbox"/> Ice <input type="checkbox"/> Snow <input type="checkbox"/> Unknown	

Approach/Departure Segment *(Select one)*

<input type="radio"/> Taxi	<input type="radio"/> VFR Departure	<input type="radio"/> On Instrument Approach	<input type="radio"/> Downwind	<input type="radio"/> Low Approach
<input type="radio"/> Takeoff	<input type="radio"/> IFR Departure Procedure/Clearance	<input type="radio"/> Landing	<input type="radio"/> Base	<input type="radio"/> Go Around
<input type="radio"/> Initial Climb			<input type="radio"/> Final	<input type="radio"/> Aborted Landing (after touchdown)
			<input type="radio"/> Crosswind	<input checked="" type="radio"/> Unknown

IFR Approach <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> ADF/NDB <input type="checkbox"/> PAR <input type="checkbox"/> MLS <input type="checkbox"/> Practice <input type="checkbox"/> SDF <input type="checkbox"/> Sidestep <input type="checkbox"/> LDA <input type="checkbox"/> GPS <input type="checkbox"/> VOR/TVOR <input type="checkbox"/> ILS <input type="checkbox"/> ASR <input type="checkbox"/> VOR/DME <input type="checkbox"/> Localizer Only <input type="checkbox"/> Visual <input type="checkbox"/> TACAN <input type="checkbox"/> LOC-back course <input type="checkbox"/> Contact <input type="checkbox"/> RNAV <input type="checkbox"/> Circling <input type="checkbox"/> Unknown	VFR Approach <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> Traffic Pattern <input type="checkbox"/> Stop and Go <input type="checkbox"/> Straight-In <input type="checkbox"/> Touch and Go <input type="checkbox"/> Valley/Terrain Following <input type="checkbox"/> Simulated Forced Landing <input type="checkbox"/> Go Around <input type="checkbox"/> Forced Landing <input type="checkbox"/> Full Stop <input type="checkbox"/> Precautionary Landing <input type="checkbox"/> Unknown
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"FLIGHT CREWMEMBER 1" INFORMATION

"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident

- Pilot
 Co-Pilot
 Student Pilot
 Flight Instructor
 Check Pilot
 Flight Engineer
 Other Flight Crew

"Flight Crewmember 1" was pilot flying Yes No

"Flight Crewmember 1" Identification

First Name: Scott

City of Residence: Mullin

Middle Initial: R

State: TX ZIP: 76864

Last Name: Mangham

Country: Mexico

Age at time of Accident/Incident: 33 Date of Birth: [REDACTED]

Certificate Number: [REDACTED]

Degree of Injury

- None
 Fatal
 Minor
 Unknown
 Serious

Seat Occupied

- Left
 Front
 Unknown
 Right
 Rear
 Center
 Single

Restraint Type

- | Available | Used |
|---|---|
| <input type="radio"/> None | <input type="radio"/> None |
| <input checked="" type="radio"/> Lap only | <input checked="" type="radio"/> Lap only |
| <input type="radio"/> 3-point | <input type="radio"/> 3-point |
| <input type="radio"/> 4-point | <input type="radio"/> 4-point |
| <input type="radio"/> 5-point | <input type="radio"/> 5-point |
| <input type="radio"/> Unknown | <input type="radio"/> Unknown |

Inflatable Restraints

- Not Installed
 Installed
 Not Deployed
 Deployed
 Unknown

Pilot Certificate(s) (Check all that apply)

- None
 Flight Instructor
 Commercial
 US Military
 Private
 Recreational
 Airline Transport
 Foreign
 Student
 Sport
 Flight Engineer

Principal Occupation

- Pilot
 Other
 Unknown

Medical Certificate

- None
 Class 3
 Class 1
 Driver's License (Sport Pilot only)
 Class 2
 Unknown

Medical Certificate Validity

- Without limitations/waivers
 Unknown
 With limitations/waivers
 N/A
 Special Issuance

Date of Last Medical

07/05/2016
mm/dd/yyyy

Medical Certificate Limitations

NA

Medical Certificate Special Issuance

NA

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:

4/22/2019
mm/dd/yyyy

Flight Review Aircraft

Make: Cessna 180
Model: 180

Airplane Rating(s) (Check all that apply)

- None
 Single-Engine Land
 Single-Engine Sea
 Multiengine Land
 Multiengine Sea

Other Aircraft Rating(s) (Check all that apply)

- None
 Airship
 Balloon
 Glider
 Gyroplane
 Helicopter
 Powered Lift

Instrument Rating(s) (Check all that apply)

- None
 Airplane
 Helicopter
 Powered Lift

Instructor Rating(s) (Check all that apply)

- None
 Airplane Single-Engine
 Airplane Multi-Engine
 Gyroplane
 Powered Lift
 Instrument Airplane
 Instrument Helicopter
 Helicopter
 Glider
 Sport

Type Ratings

[Signature]

Student Endorsements (Include dates)

Flight Time (Enter appropriate number of hours in each box)

	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	6756	10	1701	55	129	29	73			
Pilot in Command (PIC)	6659	10	604	55	120	29	70			
Time as Instructor	593	10	593	0	100	20	53			
This Make/Model										
Last 90 Days	25	10	25	0	3	0	0			
Last 30 Days	10	25	10	0	0	0	0			
Last 24 Hours	6	0	0	0	0	0	0			

"FLIGHT CREWMEMBER 2" INFORMATION

"Flight Crewmember 2" Responsibilities at the Time of Accident/Incident

Pilot Co-Pilot Student Pilot Flight Instructor Check Pilot Flight Engineer Other Flight Crew

"Flight Crewmember 2" was pilot flying Yes No

"Flight Crewmember 2" Identification

First Name: Jeremy City of Residence: Dublin
 Middle Initial: N State: TX ZIP: 76446
 Last Name: Clay Country: Earth
 Age at time of Accident/Incident: 42 Date of Birth: [REDACTED] mm/dd/yyyy
 Certificate Number: [REDACTED]

Degree of Injury <input checked="" type="radio"/> None <input type="radio"/> Fatal <input type="radio"/> Minor <input type="radio"/> Unknown <input type="radio"/> Serious	Seat Occupied <input checked="" type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Unknown <input type="radio"/> Right <input type="radio"/> Rear <input type="radio"/> Center <input type="radio"/> Single	Restraint Type Available <input type="radio"/> None <input checked="" type="radio"/> Lap only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown Used <input type="radio"/> None <input checked="" type="radio"/> Lap only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Inflatable Restraints <input checked="" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
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Pilot Certificate(s) (Check all that apply)

<input type="checkbox"/> None	<input type="checkbox"/> Flight Instructor	<input type="checkbox"/> Commercial	<input type="checkbox"/> US Military
<input type="checkbox"/> Private	<input type="checkbox"/> Recreational	<input type="checkbox"/> Airline Transport	<input type="checkbox"/> Foreign
<input checked="" type="checkbox"/> Student	<input type="checkbox"/> Sport	<input type="checkbox"/> Flight Engineer	

Principal Occupation <input type="radio"/> Pilot <input checked="" type="radio"/> Other <input type="radio"/> Unknown	Medical Certificate <input type="radio"/> None <input checked="" type="radio"/> Class 3 <input type="radio"/> Class 1 <input type="radio"/> Driver's License (Sport Pilot only) <input type="radio"/> Class 2 <input type="radio"/> Unknown	Medical Certificate Validity <input type="radio"/> Without limitations/waivers <input type="radio"/> Unknown <input checked="" type="radio"/> With limitations/waivers <input type="radio"/> N/A <input type="radio"/> Special Issuance	Date of Last Medical <u>07-16-2019</u> mm/dd/yyyy
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Medical Certificate Limitations

NA

Medical Certificate Special Issuance

NA

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: _____ mm/dd/yyyy	Flight Review Aircraft Make: _____ Model: _____
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Airplane Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	Other Aircraft Rating(s) (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instrument Rating(s) (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instructor Rating(s) (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport
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Type Ratings
Student

Student Endorsements (Include dates)
Initial Solo - 2-04-19
25NM Solo - 7-31-19
25NM Solo - 1-17-2020
90 day Night Class w/ Repeat Cross Country
Less than 50 NM Solo 11-16-19
Cross Country Solo - 11-16-19

Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	77.2	57.93	77.2	—	—	—	—	—	—	—
Pilot in Command (PIC)	70.5	53.4	70.5	—	—	—	—	—	—	—
Time as Instructor	—	—	—	—	—	—	—	—	—	—
This Make/Model	—	—	—	—	—	—	—	—	—	—
Last 90 Days	39.6	34.5	39.6	—	—	—	—	—	—	—
Last 30 Days	18.8	17.3	18.8	—	—	—	—	—	—	—
Last 24 Hours	0	0	0	0	0	0	0	0	0	0

FLIGHT ITINERARY INFORMATION

Last Departure Point Airport ID: <u>ABI</u> City: <u>Abilene</u> State: <u>TX</u> Country: _____	Time of Departure Time: <u>3:00pm</u> Time Zone: <u>Central</u>	Destination Airport ID: <u>Private</u> City: <u>Mullins</u> State: <u>TX</u> Country: <u>Mills</u>	Type Flight Plan Filed <input checked="" type="checkbox"/> None <input type="checkbox"/> VFR/IFR <input type="checkbox"/> Company VFR <input type="checkbox"/> IFR <input type="checkbox"/> Military VFR <input type="checkbox"/> Unknown <input type="checkbox"/> VFR <input type="checkbox"/> Flight Services out of <u>Abilene terminated</u> Activated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
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Type of ATC Clearance/Service (Check all that apply) *Flight Services out of ABI terminated*

<input type="checkbox"/> None	<input type="checkbox"/> Special VFR	<input type="checkbox"/> Special IFR	<input type="checkbox"/> VFR Flight Following	<input type="checkbox"/> Cruise
<input checked="" type="checkbox"/> VFR	<input type="checkbox"/> IFR	<input type="checkbox"/> VFR On Top	<input type="checkbox"/> Traffic Advisory	<input type="checkbox"/> Unknown / NA

Airspace where the accident/incident occurred (Check all that apply)

<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class G	<input type="checkbox"/> Military Operations Area (MOA)	<input type="checkbox"/> Special
<input type="checkbox"/> Class B	<input type="checkbox"/> Demo Area	<input type="checkbox"/> Airport Advisory Area	<input type="checkbox"/> Air Traffic Control Area
<input type="checkbox"/> Class C	<input type="checkbox"/> Warning Area	<input type="checkbox"/> Jet Training Area	<input type="checkbox"/> Unknown
<input type="checkbox"/> Class D	<input type="checkbox"/> Prohibited Area	<input type="checkbox"/> TRSA	
<input checked="" type="checkbox"/> Class E	<input type="checkbox"/> Restricted Area	<input type="checkbox"/> FAR 93	

Altitude of In-Flight Occurrence: 3000-2800 ft msl

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Source of Pilot Weather Information (Check all that apply)	Weather Observation Facility
<input type="checkbox"/> National Weather Service <input checked="" type="checkbox"/> Flight Service Station <input type="checkbox"/> TV/Radio <input type="checkbox"/> Automated Report <input type="checkbox"/> Commercial Weather Service (DUATS) <input checked="" type="checkbox"/> On-Board Weather	<input type="checkbox"/> Company <input type="checkbox"/> Military <input type="checkbox"/> Internet <input type="checkbox"/> None <input type="checkbox"/> Unknown
	Facility ID: <u>ABI</u> Observation Time: <u>3:05 AM</u> Time Zone: <u>Central</u> Distance from Accident Site: <u>75</u> nm Direction from Accident Site: <u>311</u> degrees true

Basic Conditions <input checked="" type="checkbox"/> VMC <input type="checkbox"/> IMC <input type="checkbox"/> Unknown	Light Condition <input type="checkbox"/> Dawn <input type="checkbox"/> Dusk <input type="checkbox"/> Dark Night <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Day <input type="checkbox"/> Night <input type="checkbox"/> Bright Night
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Sky/Lowest Cloud Condition <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Thin Broken <input type="checkbox"/> Few <input type="checkbox"/> Thin Overcast <input type="checkbox"/> Partial Obscuration <input type="checkbox"/> Unknown <input type="checkbox"/> Scattered	Ceiling <input checked="" type="checkbox"/> None (Clear) <input type="checkbox"/> Obscured <input type="checkbox"/> Broken <input type="checkbox"/> Indefinite <input type="checkbox"/> Overcast <input type="checkbox"/> Unknown	Temperature: _____ (C) or <u>68</u> (F) Dew Point: _____ (C) or <u>26.92</u> (F) Altimeter Setting: <u>28.47</u> in. Hg or _____ MB
Lowest Cloud Condition Height <u>clear below 12,000</u> ft agl	Ceiling Height <u>unrestricted</u> ft agl	

Wind Direction <input checked="" type="checkbox"/> Variable Direction: <u>260</u> degrees true	Wind Speed <input type="checkbox"/> Calm <input type="checkbox"/> Light and Variable Speed: <u>1</u> kts	Wind Gusts <input checked="" type="checkbox"/> Not Gusting Speed: _____ kts	Visibility <u>clear</u> miles RVR: _____ feet RVV: _____ miles Density Altitude: _____ ft
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Intensity of Precipitation <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy <input type="checkbox"/> N/A <input type="checkbox"/> Unknown	Type of Precipitation (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Drizzle <input type="checkbox"/> Freezing Rain <input type="checkbox"/> Rain <input type="checkbox"/> Ice Pellets <input type="checkbox"/> Snow Shower <input type="checkbox"/> Snow <input type="checkbox"/> Snow Pellets <input type="checkbox"/> Ice Pellets Shower <input type="checkbox"/> Hail <input type="checkbox"/> Snow Grains <input type="checkbox"/> Freezing Drizzle <input type="checkbox"/> Rain Showers <input type="checkbox"/> Ice Crystals	Restriction to Visibility (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Fog <input type="checkbox"/> Blowing Dust <input type="checkbox"/> Ground Fog <input type="checkbox"/> Blowing Sand <input type="checkbox"/> Haze <input type="checkbox"/> Blowing Snow <input type="checkbox"/> Ice Fog <input type="checkbox"/> Blowing Spray <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Unknown
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Icing Forecast Amount: <input type="checkbox"/> None <input type="checkbox"/> Trace <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Unknown Type: <input type="checkbox"/> N/A <input type="checkbox"/> Rime <input type="checkbox"/> Clear <input type="checkbox"/> Mixed <input type="checkbox"/> Unknown	Icing Actual Amount: <input checked="" type="checkbox"/> None <input type="checkbox"/> Trace <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Unknown Type: <input type="checkbox"/> N/A <input type="checkbox"/> Rime <input type="checkbox"/> Clear <input type="checkbox"/> Mixed <input type="checkbox"/> Unknown	Turbulence Type (Check all that apply): <input checked="" type="checkbox"/> None <input type="checkbox"/> Clear Air <input type="checkbox"/> Terrain-Induced <input type="checkbox"/> Convective Turbulence Severity: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Extreme
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NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:
None

ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)

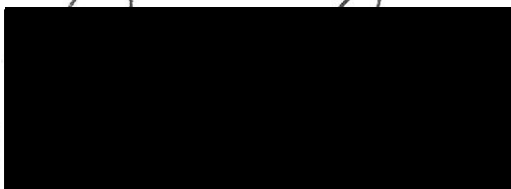
Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer	Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Flight Time at the Time of this Accident/Incident: _____ hrs	

Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer	Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Flight Time at the Time of this Accident/Incident: _____ hrs	

PASSENGER(S) / OTHER PERSONNEL (Include cabin crew; continue on separate sheet if necessary)

Name and Address	Seat	Injury	Available	Used	Inflatable Restraints	Age
First Name: <u>Jeremy</u> City: <u>Dublin</u> Middle Initial: _____ State: <u>TX</u> ZIP: <u>76446</u> Last Name: <u>Clay</u> Country: <u>Erath</u>	<input checked="" type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input checked="" type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<input type="radio"/> None <input checked="" type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="radio"/> None <input checked="" type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input checked="" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<u>42</u> <input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown

On 1/4/20 CFI Scott Mangham and I Student Pilot Jeremy Clay were in route from ABI airport to private airport approximately 3 miles out @ 3000' MSL in decent for Private airport. While going through decent landing check list airplane N5573M had engine loss at that time CFI Scott Mangham took airplane controls, trim airplane for best glide, and ran emergency checklist procedure. I made emergency May Day call and assist Scott with airspeed, elevation and trying to regain power of airplane. While in best glide looking for best spot to land we were not successful in regaining power of airplane making decision to land in nearest field. While in decent for landing right wing hitting tree limb on right wing yawing airplane to the right and touching down skidding and tipping over. Scott and I assured that one another were ok unbuckled killed master switch and exiting airplane. Within 15 min contacting NTSB and giving multiple statements to emergency response and FAA.



1-6-20

On 1/4/2020 I Scott Ryan Mangham and my student Jeremy N Clay departed Abilene regional airport in Abilene Texas. The purpose of our flight was for Jeremy to satisfy his solo tower controlled airport landings requirement for his private pilot training. We had the aircraft N5573M topped off with 100 LL prior to departure. The flight went as planned until we began a slow decent to my private airstrip approximately 3 miles out. My airstrip is located at [REDACTED] in Mullin ,Texas. Jeremy had completed the decent and before landing checklist. At approximately 3,000 ft msl the engine failed completely. I immediately took control of the aircraft and ensured the fuel selector was on both, carburetor heat was pulled on and mixture was full rich. I trimmed the aircraft for best glide and Jeremy made a mayday call. We attempted switching fuel tanks and the engine remained failed with the propeller still windmilling. We soon realized making it to my airstrip wasn't possible. I altered course approximately 45 degrees west for more favorable landing spots. Jeremy ran the emergency checklist aloud and confirmed everything had already been done. The only favorable landing spot was a plowed field about 1 mile in front of us at the intersection of highway 573N and county road 186. I set up for a soft field landing. At the entrance to the plowed field there was a line of mesquite trees along the fence line. I attempted to go between the trees and our right wingtip struck one of the treetops. The plane yawed hard to the right when the wingtip made contact with the tree. I was able to regain control of the aircraft. At this point we were about 6 feet off the ground . We touched down main wheels first and skidded about 30 feet in the loose plowed soil before coming to an abrupt stop when the nose wheel dug into the soil. The aircraft slowly toppled over onto its wings. We exited the aircraft immediately and contacted the NTSB. Local first responders arrived within 20 minutes and offered Jeremy and I medical help. We informed them we were not injured and needed no medical attention.

1-7-2020

[REDACTED]

DAMAGE TO AIRCRAFT AND OTHER PROPERTY

Aircraft Damage

- None
- Minor
- Substantial
- Destroyed
- Unknown

Aircraft Fire

- None
- In-Flight
- On-Ground
- Both Ground and In-Flight
- Fire at Unknown Time
- Unknown

Aircraft Explosion

- None
- In-Flight
- On-Ground
- Both Ground and In-Flight
- Explosion at Unknown Time
- Unknown

Description of Damage to Aircraft and Other Property *(Use additional sheet if necessary)*

Aircraft had severe structural damage to wings, airframe fuselage, tail, damage to prop & landing gear plowed up dirt in field & leaking fuel

NARRATIVE HISTORY OF FLIGHT *(Please type or print in ink)*

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and location, services obtained, and intended destination. Provide as much detail as possible.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)

Was there Mechanical Malfunction/Failure? Yes No
(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

loss of Power

Total Time/Cycles On Part

_____ Hours

_____ Cycles

Time Since This Part Inspected/Overhauled

_____ Hours

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff
(Convert from pounds, as necessary)

40

Gallons

Fuel Type

- 80/87 115/145 Jet B
- 100 Low Lead Jet A JP8
- 100/130 Jet A-1 Automotive
- Other, specify _____

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

Was an emergency evacuation of the aircraft performed? Yes No

Method of Exit - Describe how the occupants exited and how many occupants evacuated each location

pilot + passenger exited through right hand door

OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number

Manufacturer: _____

Model: _____

Damage to Other Aircraft

- Destroyed Minor
- Substantial None

Registered Owner of Other Aircraft

Name: _____
City: _____
State: _____ ZIP: _____
Country: _____

Pilot of Other Aircraft

Name: _____
City: _____
State: _____ ZIP: _____
Country: _____

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report <u>01-07-2020</u> <small>mm/dd/yyyy</small>	Name of Pilot/Operator: <u>Scott Manghan</u> Signature: <u>[Redacted]</u> <small>-- or --</small> <input type="checkbox"/> Check here to electronically sign this document
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If a Person Other than Pilot/Operator is Filing Report

Name: <u>Jeremy Clay</u>	Title: <u>Student Pilot</u>
Signature: <u>[Redacted]</u>	<u>Owner</u>
<small>-- or --</small> <input type="checkbox"/> Check here to electronically sign this document	

FOR NTSB USE ONLY

NTSB Accident/Incident No. CEN20LA055	Reviewed by NTSB Regional Office CEN - Central Regional Office	Name of Investigator Michael J. Hodges	Date Report Received 01/07/2020
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