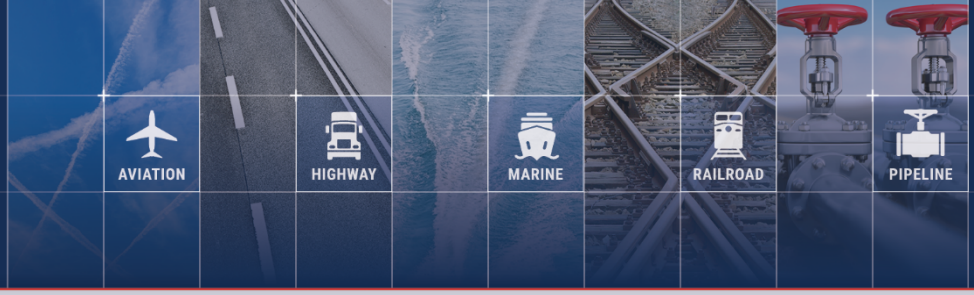

Aviation Investigation Final Report

Location:	Lamar, Colorado	**Accident Number:**	CEN24LA030
Date & Time:	October 30, 2023, 18:30 Local	**Registration:**	N1167J
Aircraft:	Mooney M20K	**Aircraft Damage:**	Substantial
Defining Event:	Fuel exhaustion	**Injuries:**	1 None
Flight Conducted Under:	Part 91: General aviation - Ferry		

Analysis

The pilot reported that about 4 hours and 15 minutes after departure, the engine lost all power. The pilot was successful in restoring engine power by switching fuel tanks and turning on the auxiliary fuel pump. However, the engine lost all power again about 5 miles from the destination runway. The pilot conducted a forced landing to a field, during which the airplane struck a fence resulting in substantial damage to both wings.

Postaccident examination of the airplane revealed that the fuel tanks contained no usable fuel. The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's inadequate fuel planning and improper in-flight decision making, which resulted in a total loss of engine power due to fuel exhaustion.

Findings

Aircraft	Fuel - Fluid level
Environmental issues	Fence/fence post - Contributed to outcome
Personnel issues	Monitoring equip/instruments - Pilot
Personnel issues	Fuel planning - Pilot
Personnel issues	Decision making/judgment - Pilot

Factual Information

History of Flight

Enroute-cruise	Fuel exhaustion (Defining event)
Landing-flare/touchdown	Off-field or emergency landing

Pilot Information

Certificate:	Airline transport; Commercial	**Age:**	71,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	**Seat Occupied:**	Left
Other Aircraft Rating(s):	Helicopter	**Restraint Used:**	4-point
Instrument Rating(s):	Airplane	**Second Pilot Present:**	
Instructor Rating(s):	None	**Toxicology Performed:**	
Medical Certification:	BasicMed Without waivers/limitations	**Last FAA Medical Exam:**	February 20, 2023
Occupational Pilot:	No	**Last Flight Review or Equivalent:**	August 20, 2022
Flight Time:	6991 hours (Total, all aircraft), 18 hours (Total, this make and model), 6791 hours (Pilot In Command, all aircraft), 32 hours (Last 90 days, all aircraft), 26 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	**Registration:**	N1167J
Model/Series:	M20K	**Aircraft Category:**	Airplane
Year of Manufacture:	1982	**Amateur Built:**	
Airworthiness Certificate:	Special flight (Special)	**Serial Number:**	25-0690
Landing Gear Type:	Retractable - Tricycle	**Seats:**	4
Date/Type of Last Inspection:	October 27, 2023 Continuous airworthiness	**Certified Max Gross Wt.:**	2900 lbs
Time Since Last Inspection:	4 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	4231 Hrs as of last inspection	**Engine Manufacturer:**	Continental
ELT:	Installed, activated, did not aid in locating accident	**Engine Model/Series:**	TSIO-360 SER
Registered Owner:	On file	**Rated Power:**	210 Horsepower
Operator:	On file	**Operating Certificate(s) Held:**	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	**Condition of Light:**	Dusk
Observation Facility, Elevation:	KLAA,3688 ft msl	**Distance from Accident Site:**	6 Nautical Miles
Observation Time:	18:53 Local	**Direction from Accident Site:**	286°
Lowest Cloud Condition:	Clear	**Visibility**	10 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	4 knots /	**Turbulence Type Forecast/Actual:**	None / None
Wind Direction:	40°	**Turbulence Severity Forecast/Actual:**	N/A / N/A
Altimeter Setting:	30.25 inches Hg	**Temperature/Dew Point:**	6°C / -13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Centralia, IL (KENL)	**Type of Flight Plan Filed:**	None
Destination:	Lamar, CO (KLAA)	**Type of Clearance:**	None
Departure Time:	14:45 Local	**Type of Airspace:**	Class E

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:	N/A	**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 None	**Latitude, Longitude:**	38.070556,-102.63472(est)

Administrative Information

Investigator In Charge (IIC):	Rutt, Brian
Additional Participating Persons:	Richard Hosker; FAA - Denver FSDO
Original Publish Date:	January 25, 2024
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=193338