



Aviation Investigation Final Report

Location: BERINO, New Mexico Accident Number: DEN86LA130

Date & Time: May 9, 1986, 08:30 Local Registration: N4491Q

Aircraft: CESSNA A188B Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 137: Agricultural

Analysis

THE PILOT REPORTS THAT HE WAS TAKING OFF ON HIS THIRD AERIAL APP FLT OF THE DAY. HE SAID THE WIND WAS FROM THE NW AND VERY LIGHT AND HE WAS DEPARTING TO THE N. THE DENSITY ALT WAS CALCULATED TO BE 5,200 FT. ACCELERATION SEEMED TO BE NORMAL UNTIL ABOUT TWO THIRDS OF THE WAY DOWN THE 2,400 FT LONG, DIRT STRIP WHEN 'THE PLANE SEEMED LIKE IT SUDDENLY PICKED UP A TAIL WIND.' THE PLT DUMPED THE LOAD OF CHEM IN HOPES OF GETTING AIRBORNE BUT THE ACFT DID NOT FLY. THERE IS A TWO FT HIGH LEVY AT THE END OF THE STRIP AND WHEN THE MAIN GEAR HIT THE LEVY THE ACFT BOUNCED AIRBORNE AND THEN CRASHED. THE ENG WAS EXAMINED AFTER THE ACDT AND NO EVIDENCE WAS FOUND TO EXPLAIN THE REPORTED POWER LOSS.

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 - ROLL/RUN

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: TAKEOFF - ROLL/RUN

Findings

- 2. TERRAIN CONDITION DIRT BANK/RISING EMBANKMENT
- 3. (F) WEATHER CONDITION HIGH DENSITY ALTITUDE

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Factual Information

Pilot Information

Certificate:	Commercial	Age:	34,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
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 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	October 8, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	3777 hours (Total, all aircraft), 562 hours (Total, this make and model), 3581 hours (Pilot In Command, all aircraft), 133 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4491Q
Model/Series:	A188B A188B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	18800891
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	February 18, 1986 Annual	Certified Max Gross Wt.:	3300 lbs
Time Since Last Inspection:	72 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3827 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Not installed	Engine Model/Series:	IO-520-D9
Registered Owner:	RIO AG AIR, INC.	Rated Power:	300 Horsepower
Operator:		Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

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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	20 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	1 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	320°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	20°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	08:30 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	Dirt
Airport Elevation:	3800 ft msl	Runway Surface Condition:	Dry
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	2400 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:	32.069152,-106.639282(est)

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Administrative Information

Investigator In Charge (IIC):	Johnson, R	
Additional Participating Persons:	G NICKERSON; ALBUQUERQUE , NM	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=16959	

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.

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