National Transportation Safety Board		NTSB ID:	FTW94FA14	0	Aircraft Registr	ation Nu	mber: N190AR		
FACTUAL REPORT		Occurren	ce Date: 04/30	/1994	Most Critical Injury: Fatal				
AVIATION VETYBOR		Occurrent	ce Type: Accic	y: NTSI	ГSB				
Location/Time									
Nearest City/Place	State	Zi	p Code	Local Time	Time Zone				
ARROYO CITY			8583	1325	CDT				
Airport Proximity: Off Airport/Airstrip	Distar	stance From Landing Facility: Direction From Airport:							
Aircraft Information Summary									
Aircraft Manufacturer			Model/Series	3			Type of Aircraft		
CESSNA			150M				Airplane		
Sightseeing Flight: No		A	ir Medical Tr	ansport Flight: No)				
Narrative									
Brief narrative statement of facts, conditions and circumstan HISTORY OF THE FLIGHT	ices perti	nent to the ac	cident/incident:						
On April 30, 1994, at 1325 collided with the ground nea pilot for a local personal conditions prevailed. The pilot	r Arr flig	royo Cit ght.	y, Texas. There was	The airplane h no flight plan	had been re n filed and	nted t	to the commercial		
Ground witnesses, one mile estimated altitude of 150 t set of power lines, the airp vertical. The witnesses th then pitch vertically nose down	o 300 lane en ob) feet A started served	GL. They a gradual the airpla	stated that she pitch up that	ortly after continued	cross until	ing a road and a the airplane was		
A video camera with a tape progression of portions of contained audio as well as vid All of the following times Between video tape time 00:0 Brownsville airport. There Between 01:38 and 03:29, th altitude in a level cruise background. At 03:29, the cam was footage of a grass fir "call fire department."	the eo re were 0 and were ere atti era p	flight, cording measur 01:37, two were s tude o panned o	includin s. The re ed in minu the tape brief view hots taken ver flat onto the in	g the last mo cording began a tes and second contained varie s of the accide outside the r terrain and en strument 03:55	oments prio at the begins s from the bous shots o ent airpland ight window gine noises 8. From 03	r to i nning beginn f the e duri . The could :58 un	mpact. The tape of the cassette. ing of the tape. ramp area at the ong this segment. a airplane was at be heard in the otil 04:22, there		
Starting at 04:22 and runni from the right side of the a 20 feet AGL. The engine noi the tape showed the airplan duster style" was heard. At unidentifiable sound is heard f	irpla se de e ban 05:02	nne. Al ecreased hking le 2, the a	titude at slightly ft, still .irplane ov	this time was o during this sea at low altituda erflew a canal	estimated a quence. Be e and at 04	s bein tween :58, t	ng between 10 and 04:34 and 05:02, The comment "crop		
At 05:03, the tape shows the a set of power lines is visible heard, followed at 05:16, by t of the airplane entering a st warning horn activated and a l and another unintelligible co The portion of the video t during the video, the engin	out t he cc eep p eft b mment ape t	the from mment " bull up, bank is at 05: that ran	t windshie over." Be followed discernabl 29, and a between 0	ld and at 05:14 tween 05:14 and by laughter and e. This was for vertical field 5:26 and 05:29	4, the commund d 05:29, the d screaming ollowed by of view of , was damage	ent "u e came . At an exp the c ed. A	ander or over" is era showed a view 05:25, the stall pletive at 05:28, cultivated field. At various points		

FACTUAL REPORT - AVIATION

FACTUAL REPORT Occurrence Date: 04/30/1994 AVIATION Occurrence Type: Accident	National Transportation Safety Board	NTSB ID: FTW94FA140	
AVIATION Occurrence Type: Accident	FACEUAL REPORT	Occurrence Date: 04/30/1994	
(1) 50.	AVIATION ETYBOR	Occurrence Type: Accident	

Narrative (Continued)

within high cruise power setting parameters throughout the taped sequences.

WITNESSES

Several witnesses were identified during the investigation; however, only two provided written statements. One eyewitness said that he observed the airplane flying northeast at approximately 300 feet altitude and that it went straight up approximately 20 to 50 feet, and then came straight back down. Another witness, who was the last person to fly the airplane prior to the accident flight, stated that it had performed normally on his flight.

PERSONNEL INFORMATION

The pilot's personal log books were not located during the investigation. Records retrieved from the FAA Airman's Records Branch indicated that he had been issued a commercial pilot certificate with airplane single engine land and instrument privileges on December 21, 1985. These records also indicated that he had last applied for a medical certificate on June 1, 1987. At the time of his last application for a medical, the pilot indicated he had flown a total of 250 hours.

Records requested from the fixed base operator where the pilot rented the airplane indicated that he had last filled out a "Pilot Check-Out Record" on September 16, 1985. At that time, he indicated he held a commercial certificate. The only other records that the FBO was able to produce on the pilot was the airplane rental slip filled out on the date of the accident.

AIRCRAFT INFORMATION

An audit of the airplane's maintenance records did not reveal any outstanding discrepancies that would have affected its airworthiness. It had last had an annual inspection on May 31, 1993, a 100 hour inspection on February 21, 1994, and an oil change on April 2, 1994. The FBO reported that the airplane had been topped off with 100LL aviation fuel prior to departure. The airplane was within the prescribed limits for weight and balance at the time of the accident.

WRECKAGE AND IMPACT INFORMATION

The airplane crashed in a flat cultivated field, approximately 900 feet west of Texas Farm to Market Road 1847. The road ran north and south, and the power lines seen in the video ran parallel to the road on the west side. It was estimated that the lines were 45 feet high.

The aircraft came to rest on a measured heading of 343 degrees with both wing leading edges imbedded in the mud. Both wings had leading edge compression damage aft to a point aft of the main spar. The airplane had not moved forward or laterally after initial impact. The tail was found folded down with the tie down ring in the mud. The nose gear wheel was found immediately behind the left horizontal stabilizer. According to rescue personnel, both occupants were strapped in when they arrived and that they cut both aft door posts to effect removal. The rescue personnel also stated that there was a large amount of fuel visible at the accident site when they responded.

All of the flight controls had remained attached to the airframe and control continuity was established to all, except where the rescue personnel had cut the aileron cables. The main gear and both struts remained in their relative positions. The engine was found displaced aft through the fire wall and both magnetos and the generator had penetrated through the instrument panel.

MEDICAL AND PATHOLOGICAL INFORMATION

Autopsies and toxicology tests were performed on both occupants. The autopsies were performed by a private company, "Pathology", in Harlingen, Texas. The toxicology studies were performed by the FAA Civil Aeromedical Institute. There were no significant findings on either individual.

FACTUAL REPORT - AVIATION

National Transportation Safety Board	NTSB ID: FTW94FA140	
FACEUAL REPORT	Occurrence Date: 04/30/1994	
AVIATION	Occurrence Type: Accident	
Narrative (Continued)		

TESTS AND RESEARCH

Video Reconstruction: The video camera with the tape jammed in it was removed from the accident site by responding Texas Department of Public Safety (DPS) officers. It was subsequently turned over to the NTSB investigator-in-charge at the DPS offices in Harlingen. The camera was subsequently turned over to a commercial video service for tape removal, case replacement, and splicing of one tear and break in the tape which was located at the end of the flight sequence. A copy of the tape was provided to Cessna Aircraft, who were able, at the request of the Board, to get instrument readings by freeze-framing the tape. Their report is contained as a separate attachment to this report.

ADDITIONAL INFORMATION

Wreckage Release: The wreckage was released to the owner's representative on July 26, 1994, and all of the retained records were returned at that time. The retained video camera and original tape out of the airplane were released to the owner's representative on August 16, 1994.

National Transportation Safety Board	d NTS	B ID:	FTW9	4FA140							
FACTUAL REPORT		urrend	ce Date:	04/30/1994							
AVIATION	Occ	urrend	се Туре:	Accident							
Landing Facility/Approach Inform	ation										
Airport Name		Airpo	ort ID:	Airport Eleva	tion	Run	way Used	Runwa	ay Length	ו R	unway Width
				Ft.	. MSL	0					
Runway Surface Type:											
Runway Surface Condition:											
Type Instrument Approach: NONE											
VFR Approach/Landing: None											
Aircraft Information			1								
Aircraft Manufacturer CESSNA		Model/ 150M						Serial N 15078			
Airworthiness Certificate(s): Normal											
Landing Gear Type: Tricycle											
Homebuilt Aircraft? No Nurr		Certifie	d Max Gross W	1600	LBS	Number	r of Engi	nes: 1			
				Engine Manufacturer:Model/Series:CONTINENTALO-200-A					Rated Power: 100 HP		
- Aircraft Inspection Information											
Type of Last Inspection		1		t Inspection	-	Time Sir	nce Last Inspe			Airframe	Total Time
100 Hour		02	/1994					83 Ho	ours		4556 Hours
- Emergency Locator Transmitter (ELT)	1										
ELT Installed? Yes	ELT Operated? Yes ELT Aided in Locating Accident Site? No										
Owner/Operator Information											
Registered Aircraft Owner			Street A	ddress 505 S. M	IINNE	SOTA	AVE.				
HUNT PAN AM AVIATION, INC.				City BROWNSVILLE							Zip Code 78521
			Street A		SVILL	.E				ТХ	/8521
Operator of Aircraft				Same as	Reg'	d Aircra	aft Owner				
Same as Reg'd Aircraft Owner		(City							State	Zip Code
Operator Does Business As:						Op	perator Desig	nator Co	ode:		
- Type of U.S. Certificate(s) Held: None											
Air Carrier Operating Certificate(s):											
Operating Certificate:				Operator 0	Certific	ate:					
Regulation Flight Conducted Under: Pa	rt 91: General Avia	ation									
Type of Flight Operation Conducted: Pe	ersonal										
	FACT	UAL	REPO	RT - AVIATI	ION						Page 2

Nation	al Transportation	Safety Board	1	NTSB ID	: FTW94FA	A140								
F	ACTUAL RI	EPORT		Occurrer	nce Date: 04	1/30/19	94		1					
	Ζ ΑΥΙΑΤΙ ΕΤΥ ΒΟ				nce Type: Ad				-					
		Pr		Occurrer	ice Type. A	Scident								
	t Information					City					State	Date of	Diath	A
Name						City			Age					
On File						On Fi	le				On File	On Fi	le	26
Sex: M	Seat Occupied	: Left		Principal Profes	sion: Unkn	own				Certif	ficate Num	ber: On	File	
Certificate	(s): Com	imercial												
Airplane R	ating(s): Sing	le-engine L	and											
Rotorcraft/	Glider/LTA: None	-												
	Rating(s): Airpl													
<u> </u>														
Instructor I	Rating(s): Non													
Type Ratin	g/Endorsement fo	or Accident/Ir	ncident Ai	rcraft? No			C	Current Bi	ennial Fligl	ht Re	view?			
Medical Ce	ert.: None	Medica	al Cert. St	tatus: Expired							t Medical	Exam: 0	6/1987	
- Flight Tin	ne Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Nig	ght	l Actual	nstrument Simula	ated	Rotorcraft		Glider	Lighter Than Air
Total Time		250												
Pilot In Co	mmand(PIC)										_			
Instructor						_								
Last 90 Da	·	1				_					_			
Last 30 Da	-	1							_					
Last 24 Ho							- ·							
Seatbelt U	sed? Yes	Shou	ılder Harn	ness Used? No			IOXIC	ology Per	formed? Y	es	5	Second F	Pilot? No	
	an/Itinerary				_									
	ght Plan Filed: No	one												
						Time Zone								
BROWNSVILLE TX BRO 1300 CDT						CDT								
Destination	Destination State Airport Identifier													
Local Flig	ght													
Type of Cl	earance: None													
Type of Air	rspace: Class	G												
Weather	Information													
Source of		cord of briefi	ing											
Method of	Briefina:													
	- 3			P •										
				FACTUA	L REPORT	- AVI	ATIOI	N						Page 3

Nationa	al Transportation Safety	Board		NTSB ID:	FTW94	4FA140							
FA	ACTUAL REPOI	ce Date:	04/30/1	994									
	AVIATION			Occurrent	e Type:	Accider	nt		1				
Weather	Information												
WOF ID	Observation Time	Time Zone	e V	VOF Elevati	on	WOF D	istance Fror	n Accie	dent Site		Direction From	Accident Site	e
BRO	1346	CDT		23 Ft.	23 Ft. MSL 160 NM 15 Deg. Mag.								
Sky/Lowes	st Cloud Condition: Sca	ttered					1500 Ft. AC	<u> </u>	Condition of	of Ligł T	nt: Day		
Lowest Ce	iling: Overcast			2500 Ft.	AGL	Visib	ility:	12	SM	Alti	meter:	29.00	"Hg
Temperatu	ıre: 23 °C	Dew Point:		19 °C	Wind	Direction	: 270			Dei	nsity Altitude:		Ft.
Wind Spee	ed: 15	Gusts:			Weat	her Condi	ions at Acci	dent S	ite: Visual (Cond	itions		
Visibility (F	RVR): 0 Ft	. Visibilit	y (RVV)) 0	SM	Intensit	y of Precipit	ation:	Light				
Restriction	s to Visibility: None	•											
Type of Pre	ecipitation: Rain												
Accident	Information												
Aircraft Dar	mage: Destroyed			Aircraft Fir	e: None)			Aircraft Exp	olosio	n None		
Classificati	on: U.S. Registered/l	J.S. Soil											
- Injury Su	mmary Matrix	Fatal	Seriou	ıs Mino	or	None	TOTAL						
First Pi	lot	1					1						
Second	d Pilot												
Studen	t Pilot							4					
Flight li	nstructor							4					
Check	Pilot							_					
Flight E	Engineer												
Cabin A	Attendants							4					
Other C	Crew												
Passen	igers	1					1						
- TOTAL A	ABOARD -	2					2						
Other G	Ground	0		0	0		0						
- GRANE	D TOTAL -	2		0	0		2						
			F	FACTUAL	REPO	RT - AV	IATION					F	'age 4

National Transportation Safety Board	NTSB ID: FTW94FA140	
FACTUAL REPORT	Occurrence Date: 04/30/1994	
AVIATION	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC) WARREN V. WANDEL,		
Additional Persons Participating in This Accident	/Incident Investigation:	
RICHARD J BOCHYNSKI		
FAA FSDO SAN ANTONIO, TX 78216		